



Product Catalog 1050

ELECTRIC MOTORS, GEARMOTORS AND DRIVES

Sub-Fractional to 700 HP

A Regal Brand

REGAL

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New products and pricing are continually updated, for the latest real time product information please refer to leeson.com





Branching Out.

With sales exceeding \$3B, Regal—a global manufacturer of efficient solutions for motion control, air flow and power generation—is the strength behind Leeson, Grove Gear, Unico, Fasco, Genteq and Marathon, among other brands. Collectively, these brands enable deeply integrated system solutions.

Strong Support.

For six decades, Regal has grown both organically and through strategic acquisitions. Our family of brands is supported with best-in-class processes, outstanding people as well as industry-leading technologies that facilitate product innovation and the services our customers expect.

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Growth is mutual.

It's the result of decisions well made, and commitments perfectly executed. When we do things right, your growth is impacted as well. From solutions that save energy and money, to robust systems that keep you up and running, we'll anticipate your needs and deliver beyond your expectations. See what deep roots, a strong core product line, talented teams and a commitment to excellence can do for you. We invite you to grow with LEESON.

Mike Catania

Mike Catania, Vice President and Business Leader, LEESON Electric

Investing. Growing.

What you see is just the beginning. Regal will continue to provide solutions you need, no matter where you are. Our manufacturing, sales and service facilities in North America, South America, Europe, Asia, South Africa and Australia are ready to support your growth. Regal Beloit Corporation (NYSE:RBC)

REGAL

Technical Information

Application Information

AGENCY LISTINGS

UL and CSA

LESSON Electric and Lincoln Motors Fire Pump and Explosion Proof motors are UL Listed. Other motor types are UL Recognized, including models with inherent overheating protection as noted (i.e. thermally protected models). Leeson and Lincoln motors are also CSA Certified for both explosion proof and non-explosion proof enclosures.

AC Motors

Non-Explosion Proof	UL File No.	CSA File No.
NEMA 25-449 Frame	E49747	LR2025
NEMA 500 and 5000 Frame	—	LR2025*
IEC 63-90 Frame	E49747	LR2025
IEC 100-280 Frame	E49747	LR2025*
Thermally Protected motors	E6312	LR2025
Insulation Systems	E37900	LR2025
* Does not include coverage for use with VFD		
# Domestic product only		
Explosion Proof	UL File No.	CSA File No.
NEMA 56-326 Frame	E12044	LR47504
NEMA 364-449 Frame	E12044	LR21839
Fire Pump Motors	UL File No.	CSA File No.
NEMA 143-510	EX5190	LR2025
Class I, Division 2/Zone 2	UL File No.	CSA File No.
NEMA 48-449, 5000 Frame	—	LR21839
European ATEX Zone 2	Intertek Certificate No.	
NEMA 143-449, IEC 112-280	ITS06ATEX45370	

PMDC Motors + Gear Motors

Non-Explosion Proof	UL File No.	CSA File No.
NEMA 25-145	E49747	LR2025
AC Inverters	E161242	#
SpeedMaster SCR Controls	E132235	LR41380
FHP Speed Drives	E132235	—
# - UL Certified for Canada under UL File E 1.67242		

ATEX Directive (ATmospheres EXplosibles)

Mandatory by law, the European Union (EU) Directive 94/9/EC requires that electric motors for use in explosive atmospheres carry the CE mark, notified body identifier, Ex symbol, equipment group and category, plus the date code. See "European Installations" for additional details, located on the next page.

NEMA (National Electrical Manufacturers Ass'n)

LEESON Electric and Lincoln Motors' are manufactured in accordance with all applicable areas of NEMA standards in MG1-2006. When applied in accordance with the "Guidelines for Application of Three Phase Motors on Variable Frequency Drives", **LEESON Electric and Lincoln Motors' are in full compliance with NEMA MG1-2006, Part 31, Section 4.4.2**, as pertaining to voltage spikes. 460 volt motors must

withstand voltage spikes of up to 1426 volts; 575 volt motors must withstand spikes up to 1788 volts. See "Insulation Systems" for additional detail on this subject. **Website:** www.nema.org

Commitment to RoHS and WEEE European Directives

European Directive 2002/95/EC "Restriction of Use of Certain Hazardous Substances" (RoHS) and Directive 2002/96/EC "Directives on Waste Electrical and Electronic Equipment" (WEEE) were enacted to control the amount of certain hazardous substances contained in products shipped into the E.U. Restricted substances include lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls and polybrominated diphenyl ethers.

The scope of products covered, affecting motors, is:

- Large household appliances
- Small household appliances
- IT and telecommunications equipment
- Consumer equipment
- Electrical and electronic tools (except large scale stationary and industrial tools)
- Toys, leisure and sports equipment
- Automatic dispensers

The Directives do not currently apply to medical devices, monitoring and control instruments, spare parts for the repair or reuse of electrical and electronic equipment placed on the market before July 1, 2006, and most military and state security equipment.

Regal Beloit Corporation worked closely with suppliers to assure that product falling within the scope of these Directives meets the specified levels of these substances. The Directives took affect July 1st, 2006 however many products were converted in May and June. The products converted are motors in NEMA frame size 145 and below, both AC and DC motors with the following exceptions:

- Brakemotors in 56-145 frame **will have to be ordered specifically as RoHS compliant.**
- **Some motors with specialty electro-mechanical components.**

ISO QUALITY CERTIFICATION

Affiliate of The Regal Beloit Corporation. We are ISO 9001:2008 and our registrar is NSF-ISR. The certificate number for the corporation is C0026928-IS2.

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LEESON Electric and Lincoln Motors employ the use of Exxon POLYREX[®] EM grease, a specially formulated bearing grease designed for electric motors. POLYREX[®] EM provides superior lubricity, durability and resists corrosion, rust and washout. POLYREX[®] EM is a registered trademark of Mobil Corporation.

Maximum safe mechanical speed capability is a function of bearing size, type and grease selection, as well as rotor balance specifications. Consult the "Maximum Safe Mechanical Speed Limits" chart in the "Overspeed Capability" section.

Note that these values do not imply maximum constant horsepower RPM.

EFFICIENCY

The efficiency of a motor is the ratio of its useful power output to its total power input and is usually expressed in a percentage. LEESON Electric and Lincoln Motors offers standard, high efficient EPAct, and NEMA Premium[®] efficient ratings. Standard efficiency motors may only be used on applications that are exempt from legislated efficiencies. The high efficient motor line is in compliance with the Energy Policy Act of 1992 (EPAct) and/or Canadian efficiencies as set by NRCAN. The Energy Independence and Security Act of 2007 (EISA07) will become law on December 19, 2010, requiring current EPAct-compliant motors to meet NEMA Premium[®] efficiencies, and most EPAct-exempt motors to meet EPAct levels. Premium efficient motors in this catalog meet NEMA Premium[®] unless otherwise noted.

The LEESON WattSAVERe[®] and Lincoln Ultimate-e[™] line is a premium efficiency line, which exceeds mandated efficiencies of EPAct and/or NRCAN. Unless otherwise noted, premium efficient motors in this catalog meet NEMA Premium[®] the newly promoted efficiency levels by NEMA and the Consortium for Energy Efficiency (CEE).

ELECTRICAL TYPE/STARTING METHOD

Motors in this catalog are capacitor start, split phase, permanent split capacitor, or three phase. Capacitor Start motors have high starting torque, high breakdown torque, and relatively low starting current. Split phase motors have medium starting torque and medium starting current. Permanent split capacitor motors have low starting torque and low starting current. Three phase motors have high starting, extra breakdown torque, and typically very low starting current. Single phase motors cannot be applied on variable frequency drives with three phase output.

ENCLOSURE AND METHOD OF COOLING

LEESON Electric and Lincoln Motors are available in various enclosures; Dripproof (DP), Dripproof Force Ventilated (DPFV), Totally Enclosed Fan Cooled (TEFC), Totally Enclosed Non-Ventilated (TENV), Totally Enclosed (TEAO) and Totally

Enclosed Blower Cooled (TEBC). Application conditions will determine the type of motor enclosure required.

Dripproof motors have open enclosures and are suitable for indoor use and in relatively clean atmospheres. Dripproof motors have ventilating openings constructed so that drops of liquid or solid particles falling on the machine at an angle of not greater than 15 degrees from the vertical cannot enter the machine.

Totally enclosed motors are suitable for use in humid environments or dusty, contaminated atmospheres. Totally enclosed non-ventilated motors are NOT cooled by external means. Totally enclosed fan cooled motors are cooled by external means that are part of the motor but not in the internal workings of the motor. Totally enclosed air over motors are sufficiently cooled by external means, provided by the customer.

HAZARDOUS DUTY

Hazardous Duty motors are totally enclosed (fan cooled or non-ventilated) motors designed for applications in hazardous atmospheres containing explosive gases and/or combustible dusts.

North American installations

North American standards for electric motors generally fall into one of two divisions. Division 1 Explosion Proof motors are UL Listed in accordance with NFPA Class I (Flammable Gases) or Class II (Combustible Dusts) and Groups (gases or dusts), depending upon the atmosphere. Division 2 motors are CSA Certified and are marked similarly to Division 1 equipment. Inverter Duty motors through 449T frames are CSA Certified for use in Division 2 locations.

European installations

Motors for hazardous locations in Europe must meet a different set of standards and require different markings than those of North America. CENELEC sets the standards for equipment in hazardous locations for Europe. Motors for use in explosive atmospheres in Europe are often referred to as flameproof (Zone 1) or non-sparking (Zone 2) motors. These motors must comply with the ATEX Directive. The ATEX Directive covers all electrical equipment used in explosive atmospheres. To ensure compliance with the Directive, equipment must meet the essential ATEX requirements and carry the CE mark on the nameplate. Other information required on the nameplate includes the Ex symbol, group & category, Ex protection method, gas group, and temperature code, example (Ex) II 3 G Ex nA IIC T3).

The tables on the next page describe LEESON Electric and Lincoln Motors capabilities by Area Classification and by Temperature Code.



Technical Information

Application Information

Single Phase
ODP MotorsSingle Phase
TEFC MotorsSingle Phase
C Face MotorsThree Phase
ODP MotorsThree Phase
TEFC MotorsThree Phase
C Face MotorsInverter Duty
MotorsSevere Duty
Motors

LEESON Electric and Lincoln Motors Hazardous Duty Motor Area Classification Chart

Class I Area Classification (Flammable Gases, Vapors or Mists)				Class II Area Classification (Combustible Dusts)			
North America		Europe - ATEX [Ⓢ] (Category G - Gases)		North America		Europe - ATEX [Ⓢ] (Category D - Dusts)	
Division 1 Explosion Proof	Division 2 TEFC & TENV	Zone 1 Flameproof	Zone 2 Non-Sparking	Division 1 Explosion Proof	Division 2	Zone 21 Flameproof	Zone 22 Non-Sparking
Group A [Ⓢ]	Group A	N/A	N/A	-	-	-	-
Group B [Ⓢ]	Group B	N/A	N/A	-	-	-	-
Group C	Group C	N/A	N/A	-	-	-	-
Group D	Group D	N/A	N/A	-	-	-	-
-	-	N/A	-	Group E [Ⓢ]	-	N/A	N/A
-	-	N/A	-	Group F	Group F [Ⓢ]	N/A	N/A
-	-	N/A	-	Group G	Group G [Ⓢ]	N/A	N/A

- Group is not applicable to that Division or Zone, or is not defined.
- Ⓢ Group is not available from LEESON Electric and Lincoln Motors.
- Ⓢ Contact factory representative for availability.
- Ⓢ Currently not available.

LEESON Electric and Lincoln Motors Hazardous Duty Motor Temperature Code Chart

	TEMPERATURE CODES		Division 1 Explosion Proof / Flameproof		Division 2 / Non-Sparking
			Class I Area Classification (Flammable Gases, Vapors or Mists)	Class II Area Classification* (Combustible Dusts)	Class I Area Classification (Flammable Gases, Vapors or Mists)
Temp.	UL/CSA	ATEX	Division 1/Zone 1	Division 1/Zone 21	Division 2/Zone 2
280°C	T2A	T2(280)	Explosion Proof - Class I, Group D (Group C as noted)		
260°C	T2B	T2(260)			Severe Duty & IEEE-841 @ 1.15 S.F., Class I, Groups A,B,C,D (Sine wave power)
215°C	T2D	T2(215)			
200°C	T3	T3			
165°C	T3B	T3(165)	Explosion Proof - Class I, Group D (Group C as noted), Sine wave or PWM power	Explosion Proof - Class II, Groups F & G, Sine wave or PWM power	
160°C	T3C	T3(160)			
135°C	T4	T4			

* Class II, Division 2 motors are not available from LEESON Electric and Lincoln Motors.

Division I & II ambient range is -25°C to +40°C

Guidelines for Application of General Purpose, Three Phase, Single Speed Motors on Variable Frequency Drives Meets NEMA MG1-2006 Part 30 and Part 31 Section 4.4.2 Unless stated otherwise, motor nameplates do NOT include listed speed range.

ENCLOSURE	EFFICIENCY	VARIABLE TORQUE	CONSTANT TORQUE								
		ALL FRAMES	56	143-215		254-286		324-365		404-449	
NEMA Motors		ALL POLES	ALL POLES	2-Pole	4&6 Pole	2-Pole	4&6 Pole	2-Pole	4&6 Pole	2-Pole	4&6 Pole
ODP	Standard (EPA ^{ct} exempt)	10:1	2:1	2:1	2:1	Contact Engineering					
	EPA ^{ct} compliant	10:1	n/a	10:1	2:1	2:1	2:1	Contact Engineering			
	NEMA Premium	10:1	n/a	2:1	10:1	10:1	10:1				
TEFC	Standard (EPA ^{ct} exempt)	10:1	2:1	2:1	2:1	Contact Engineering					
	EPA ^{ct} compliant	10:1	n/a	2:1	10:1	2:1	10:1	2:1	2:1	2:1	2:1
	NEMA Premium	10:1	n/a	2:1	20:1	2:1	20:1	2:1	20:1 (1)	2:1	20:1 (1)
TENV	EPA ^{ct} compliant	10:1	n/a	1000:1	1000:1	1000:1	1000:1	1000:1	1000:1	1000:1	1000:1
	NEMA Premium	10:1	1000:1	1000:1	1000:1	1000:1	1000:1	1000:1	1000:1	1000:1	1000:1
Washdown TEFC	Standard (EPA ^{ct} exempt)	10:1	10:1 (2)	10:1 (2)	10:1 (2)	n/a	n/a	n/a	n/a	n/a	n/a
	EPA ^{ct} compliant	10:1	10:1 (2)	10:1 (2)	10:1 (2)	n/a	n/a	n/a	n/a	n/a	n/a
	NEMA Premium	10:1	10:1 (2)	10:1 (2)	10:1 (2)	n/a	n/a	n/a	n/a	n/a	n/a
Washdown TENV	Standard (EPA ^{ct} exempt)	10:1	1000:1	1000:1	1000:1	n/a	n/a	n/a	n/a	n/a	n/a
	EPA ^{ct} compliant	10:1	1000:1	1000:1	1000:1	n/a	n/a	n/a	n/a	n/a	n/a
	NEMA Premium	10:1	1000:1	1000:1	1000:1	n/a	n/a	n/a	n/a	n/a	n/a
Explosion Proof	all efficiency levels	Explosion Proof motors must be properly nameplated with inverter duty information prior to use on VFD. See LEESON catalog pages for specific rating capabilities. Motors with automatic overload protectors cannot be used on VFDs.									
IEC Motors		ALL FRAMES	63-90		100-225		250-315				
all Enclosures	all efficiency levels	10:1	20:1		Up to 20:1		Up to 2:1				

Note (2) - Washdown TEFC motors are rated for 10:1 C.T. 60 minute duty or 2:1 C.T. continuous duty at lowest RPM

Lincoln Rolled Steel - ODP - 280-360 Frame - 2:1 Constant Torque

280 Frame and Higher - TEFC -280-360 Frame- 2:1 Constant Torque

400 Frame and Higher - Contact Local Sales office

Stock 90 VDC and 180 VDC Motors 30:1 of rated torque

Application Notes

Bearing currents: LEESON Electric recommends that any motors used with Variable Frequency Drives be equipped with suitable means to protect the motor bearings from shaftcurrents caused by common mode voltages inherent with operation on a non-sinusoidal power supply. LEESON Electric offers several options for motors in non-classified (non-hazardous) locations, including ground brushes, insulated bearings and non-contact shaft grounding rings. For more information on ground brushes and bearing currents, see the VARIABLE SPEED OPERATION section. For installation cost and available options, see the MOD Squad section.

Restricted use: DO NOT APPLY THE FOLLOWING MOTORS ON VARIABLE FREQUENCY DRIVES:

Single Phase motors: Motors with inherent overload protection, Multi-speed motors, Motors with 1.0 service Factor on sine wave power. Fire Pump motors should not be used with variable frequency power supplies, due to the critical nature of these applications.

Hazardous locations: Consult with LEESON Electric when applying motors and drives into hazardous locations, either Division/Zone 1 or Division/Zone 2 areas. UL and CSA policies prohibit the installation of bearing protection devices, such as shaft grounding brushes, rings or insulated bearings on motors in hazardous locations.

Maximum Cable Lengths from the Motor to Drive

* Higher carrier frequencies require shorter cable length to obtain normal (50Khrs) insulation life.

Standard Motor Insulation Systems

PRODUCT DESCRIPTION	3 kHz CARRIER FREQUENCY (PHASE TO PHASE)*		
	230 VOLT	460 VOLT	575 VOLT
56-326 NEMA, 100-225 IEC Frames	600 ft.	125 ft.	40 ft.
364-5013 NEMA, 250-315 IEC Frames	1000 ft.	225 ft.	60 ft.
Motors with Corona Resistant Magnet Wire	1500 ft.	475 ft.	140 ft.
Motors with IRIS™ or Ultimate-e™ Spike Defense™	Unlimited	Unlimited	650 ft.
Form-wound low voltage motors	Unlimited	Unlimited	650 ft.
Standard Motor Insulation Systems			
IRIS™ INSULATION SYSTEM	ULTIMATE SPIKE DEFENSE™		
All LEESON 3-Phase Motors 1HP and above	Lincoln Premium Efficient Motors		
All LEESON Premium Efficient Motors	Lincoln Inverter Duty Motors		
All LEESON Inverter Duty Motors	Lincoln CTAC® Motors		



Technical Information

Application Information

VARIABLE SPEED INFORMATION

LEESON Electric and Lincoln Motors Vector-Duty and Inverter Duty motors, unless otherwise stated, are rated for continuous operation in a 40°C ambient and for altitudes up to 3300 feet (1000 meters) above sea level. Special application considerations, such as high or low ambient, intermittent ratings, high altitude, duty cycle rated, extended constant horsepower range, special base speed, voltage or frequency, or any other special requirements, should be reviewed by a factory representative.

It is the responsibility of the startup personnel during commissioning of the VFD/motor system to properly tune the drive to the motor for the specific application. The correct voltage boost and volts/hertz settings are application dependent and unique to each motor design. Procedures for these adjustments should be in your VFD user manual. Many Vector Duty and Inverter Duty motors in this catalog are equipped with thermostats; warranty coverage may be denied if they are not properly utilized.



WARNING *Power factor correction capacitors should never be installed between the drive and the motor.*

INVERTER DUTY OR INVERTER RATED

"Inverter Duty" (often called "Inverter Rated") motors are suitable for use with Variable Frequency Drives, as long as operation is within the application guidelines published in this catalog. In general, LEESON Electric and Lincoln Motors' three phase, general purpose, NEMA Design B motors are considered "Inverter Duty", and meet or exceed the requirements of NEMA MG1, Part 30. As required under Federal law, these motors comply with EISA2007 efficiencies when operating from utility power.

Inverter Duty (Rated) motors are most often used in 10:1 speed range, variable torque or constant torque applications. A vector control is usually required for operation beyond 10:1 CT.

Additional detail regarding a specific product's capabilities is available on its catalog page, or by consulting your application engineer.

VECTOR DUTY – "Vector Duty" describes a class of motors that are used in conjunction with Open- (without encoder) or Closed-Loop (with encoder) Vector controls, that provide enhanced performance under low speed operating conditions, or in cases where torque (rather than speed) must be controlled. "Vector Duty" motors can be applied to Volts/Hertz (scalar) drives, as well.

LEESON Electric's Speedmaster® motors and Lincoln Motors' CTAC Motors, have been specifically designed for optimal operation on vector or volts/hertz controls. These motors feature a wide constant torque (up to 2000:1) and/or constant horsepower (up to 4:1) speed range and are performance-matched to all current technology IGBT drives. Vector Duty motors meet or exceed the requirements of NEMA MG1, Part 31, and are equipped with an enhanced insulation system (IRIS or Ultimate Spike Defense) to provide many years of trouble-free service. Consult the catalog page for each product's capabilities and features. As

these motors are specifically designed for operation through an inverter, they are exempt from EISA2007.

VARIABLE TORQUE LOADS – Applications include fans, blowers and centrifugal pumps. Torque varies as the square of the speed, and horsepower as the cube of the speed. Operation below base speed significantly lightens the load on the motor. While most variable torque applications do not require the motor to operate below half speed, the motor is fully capable of operation to zero speed. Operation above base speed significantly adds to the load on the motor; therefore, a factory representative must review applications requiring variable torque above base speed. Refer to the application chart found on page 9 for use of general purpose three phase motors on variable frequency drives. A bypass circuit is often employed in Variable Torque applications. If this device is intended to be used, selection of a NEMA Design B motor is recommended, to withstand the inrush current during across-the-line starting.

CONSTANT TORQUE LOADS – Applications include conveyors, elevators, hoists, extruders, positive displacement pumps, mixers and converting equipment. Torque remains constant throughout the range of operation, and extra care should be taken in the proper application of motors, especially at very low speeds. Most constant torque applications don't require operation below 10:1 (i.e. 6 Hz operation on a 60 Hz motor), but an increasing number of applications historically reserved for servo and/or stepper systems are being served with motors capable of operation beyond 20:1...even up to 2000:1 (zero speed, constant torque). Refer to the application chart found on page 14 for use of general purpose three phase motors on variable frequency drives.

Applications requiring greater than 20:1 C.T. are ideal for LEESON Speedmaster® Inverter Duty/Vector Duty and Lincoln Vector Duty CTAC® motors. These motors provide full rated torque within their listed speed range, without exceeding a Class F temperature rating while under inverter power (many operate at Class B). Ratings in this catalog have been developed, based on extensive testing on IGBT inverters, set at a minimum 3 KHz (or equivalent) carrier frequency.

Vector Duty and Inverter Duty motors from LEESON Electric and Lincoln Motors are designed for operation at 150% of rated load for one minute, up to the base speed of the motor (overload capability declines to 100% as the motor reaches maximum constant HP speed). These motors accommodate constant horsepower operation to 1-1/2 to 2 times base speed, subject to the motor's maximum safe mechanical speed limit. Refer to the Maximum Safe Mechanical Speed Chart, as well as the performance section for each motor's capability.

Motors rated for zero RPM continuous duty (1000:1 or 2000:1) must be powered by vector drives to produce rated torque without overheating. Optimum zero speed and low-speed full torque performance may require a closed loop vector drive (with encoder feedback).

Continued on next page.

Technical Information

Variable Speed Operation

CONSTANT HORSEPOWER LOADS – Applications include coil winders, band saws, grinders, and turret lathes. Operation requires the motor to deliver the same horsepower rating, regardless of shaft speed. Torque increases at low speed and decreases at higher speed. Most general purpose motors can deliver constant horsepower up to 1 1/2 times base speed (consult a factory representative to verify performance). However, many constant HP applications require operation to twice base speed, and some, such as coil winders, up to 4 times base speed.

MOTOR GROUNDING - Frames and accessories of all motors must be grounded in accordance with the National Electric Code (NEC) Article 430. Refer to NEC Article 250 for general information on grounding. Proper grounding of inverter-driven motors is essential to protect personnel and livestock from inverter-sourced common mode voltages, which may reach hazardous levels on the frame of ungrounded or poorly grounded motors.

LOW INPUT VOLTAGE – If, due to lower utility supply voltage, the input voltage from the VFD to the motor is lower than the motor's rated voltage, de-rating of the motor's base frequency, horsepower, full load RPM, and constant HP RPM is required. The revised values can be calculated by multiplying by the ratio of the voltage change. For example, to operate a 460 volt motor from an inverter fed by 50 or 60 HZ, 400 volt utility power, the multiplier is 400/460 or 0.87.

The VFD can be reprogrammed to match the new base point values, allowing the motor to provide rated torque at rated current from the new base speed down to its original minimum Constant torque speed. The motor's CHP range will begin at the new base frequency and will be shortened by the same ratio as described above.

OVERSPEED CAPABILITY – Maximum safe mechanical speed capability is a function of bearing size and type, lubrication, rotor balancing technique and specifications, air gap, enclosure, frame construction and connection to the driven load. In addition, consideration must be given to ambient noise levels, as operation above base speed will increase motor noise and vibration, and reduce bearing life. Under no circumstances should bearing hub temperature exceed 100° C. Belted loads should not exceed 60 Hz operating RPM by more than 25% (NEMA "TS" shafts are not suitable for belted loads). Due to external cooling fans, TEFC (and Explosion Proof Fan Cooled) motors are limited to 4000 RPM maximum speed.

Maximum Safe Mechanical Speed Limits
(ODP, TENV, DPFV OR TEBC ENCLOSURES)
60 Hz base frequency

Frame Size	2-Pole	4, 6 or 8-Pole
56-184	7200	5400
213-256	5400	4200
284-286	5400	3600
324-326	4000	3600
364-365	4000	2800
404-449	3600	2800
5000 Fr	N/A	CALL
6800 Fr	N/A	CALL

Technical Information

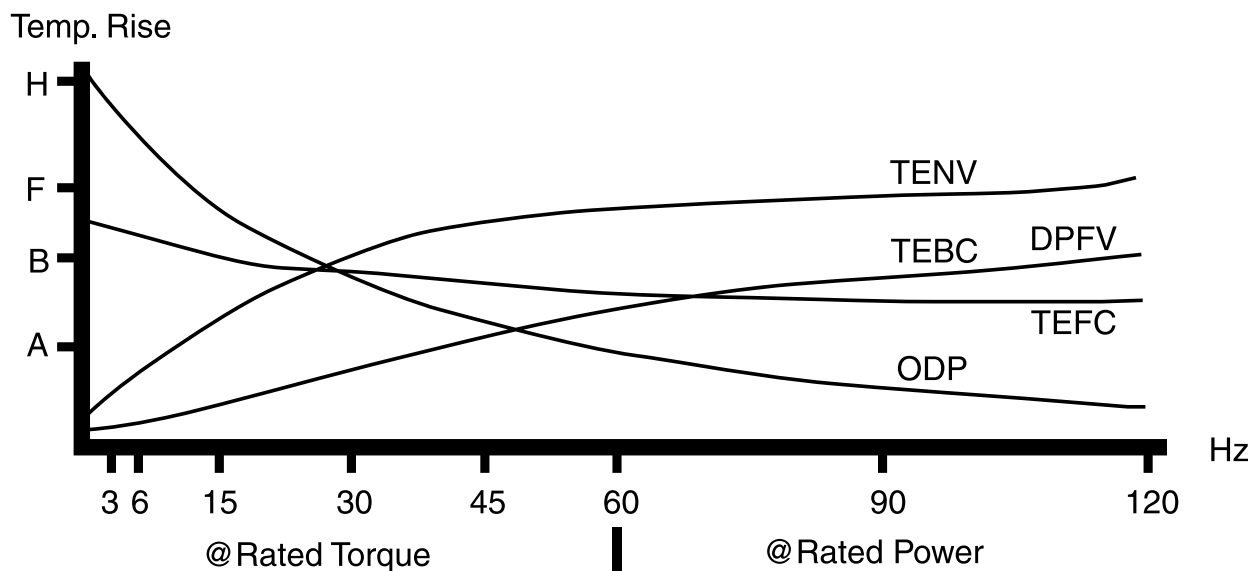
Variable Speed Operation

OTHER APPLICATION CONSIDERATIONS –

For proper selection, the following should be considered:

- Horsepower or torque requirements at various speeds.
- Desired speed range of the load and motor.
- Acceleration and deceleration rate requirements of the process being controlled.
- Starting requirements including the frequency of starting and a description of the load (reflected inertia at the motor, load torque during starting).
- Whether the application is a continuous process or duty cycle of starts, stops and speed changes.
- A general description of the type of application including the environment in which the VFD system components must operate (determines motor enclosure and/or explosion proof classification).
- Description of the available electrical power supply and wiring.
- Special performance requirements, if any.
- Whether the drive will be configured with a by-pass circuit. In case of its deployment, the motor will operate like its fixed speed counterpart and may require a NEMA B design which limits in-rush current, or selection of a larger motor starter or other protective circuitry.
- Load sharing
- Mounting and other mechanical considerations

Typical Temperature Rise Of Various Enclosures



LEESON Model Number Nomenclature

Odd frequencies other than 50 Hz show synchronous speed code.

DC and special motors may have one, two, or three digits indicating motor speed rounded to the nearest hundred RPM.

EXAMPLE:

Position No. **1 2 3 4 5 6 7 8**
 Sample Model No. **A 4 C 17 D B 1 A**

LEESON MOTOR MODEL NUMBER NOMENCLATURE

All LEESON motors, both stock and custom, have a catalog number and a model number. The model number appears on the motor's nameplate and describes pertinent electrical and mechanical features of the motor. An example follows along with a listing of the various letters and positions used.

POSITION 1: U.L. PREFIX

- A = Auto protector. U.L. recognized for locked rotor plus run, also recognized construction (U.L. 1004)*.
- M = Manual protector. U.L. recognized for locked rotor plus run, also recognized construction (U.L. 1004)*.
- C = Component recognition. (U.L. 1004) No protector.
- U = Auto protector. U.L. recognized construction (UL1004). Motor/protector combination not UL recognized.
- P = Manual protector. U.L. recognized construction (UL1004). Motor/protector combination not UL recognized.
- T = Thermostat, not U.L. recognized.
- N = No overload protection.

*This applies only to 48, 56, and 56 frame designs through 1 HP, Open & TENV.

POSITION 2: FRAME

4 = 48 Frame	24 = 24 Frame	40 = 40 Frame
6 = 56 Frame	25 = 25 Frame	43 = 43 Frame
42 = 42 Frame	30 = 30 Frame	44 = 44 Frame
143 = 143T Frame	31 = 31 Frame	
145 = 145T Frame	32 = 32 Frame	
182 = 182T Frame	34 = 34 Frame	
184 = 184T Frame	38 = 38 Frame	
213 = 213T Frame		
215 = 215T Frame		
254 = 254T Frame		
256 = 256T Frame		
284 = 284T Frame		
286 = 286T Frame		
324 = 324T Frame		
326 = 326T Frame		
364 = 364T Frame		
365 = 365T Frame		
404 = 404T Frame		
405 = 405 T Frame		
444 = 444T Frame		
447 = 447T Frame		
449 = 449T Frame		

POSITION 3: MOTOR TYPE

- C = Cap. Start/Ind. Run
- D = Direct Current
- K = Cap. Start/Cap. Run
- P = Permanent Split
- T = Three Phase
- B = Brushless DC
- H = Inverter Rated/IEEE841
- S = Split Phase

POSITION 4: RPM

RPM-Single Speed

- 34 = 3450 RPM 60 Hz 2 Pole
- 28 = 2850 RPM 50 Hz 2 Pole
- 17 = 1725 RPM 60 Hz 4 Pole
- 14 = 1425 RPM 50 Hz 4 Pole
- 11 = 1140 RPM 60 Hz 6 Pole
- 9 = 950 RPM 50 Hz 6 Pole
- 8 = 960 RPM 60 Hz 8 Pole
- 7 = 720 RPM 50 Hz 8 Pole
- 7 = 795 RPM 60 Hz 10 Pole
- 6 = 580 RPM 50 Hz 10 Pole
- 6 = 580 RPM 60 Hz 12 Pole

RPM-Multi-Speed

- 24 = 2 and 4 Poles
- 26 = 2 and 6 Poles
- 82 = 2 and 8 Poles
- 212 = 2 and 12 Poles
- 46 = 4 and 6 Poles
- 48 = 4 and 8 Poles
- 410 = 4 and 10 Poles
- 412 = 4 and 12 Poles
- 68 = 6 and 8 Poles

POSITION 5: ENCLOSURE

- D = Drip-Proof
- E = Explosion-Proof TENV
- F = Fan Cooled
- N = TENV
- O = Open
- S = Splashproof
- W = Weatherproof, Severe Duty, Chemical Duty, WASHGUARD - TEFC
- X = Explosion-Proof TEFC
- V = Weatherproof, Severe Duty, Chemical Duty, WASHGUARD - TENV

POSITION 6: MOUNTING

- B = Rigid base standard
- C = "C" face - no base - NEMA
- D = "D" flange - no base - NEMA
- H = 48 frame - 56 frame mounting/shaft rigid
- J = 48 frame - 56 frame mounting/shaft resilient
- K = Rigid mount with "C" flange
- M = Motor parts - rotor and stator
- R = Resilient base
- S = Shell motor
- T = Round body
- Z = Special mounting

POSITION 7: SEQUENCE NUMBER

Number assigned as required when new designs with new characteristics are needed.

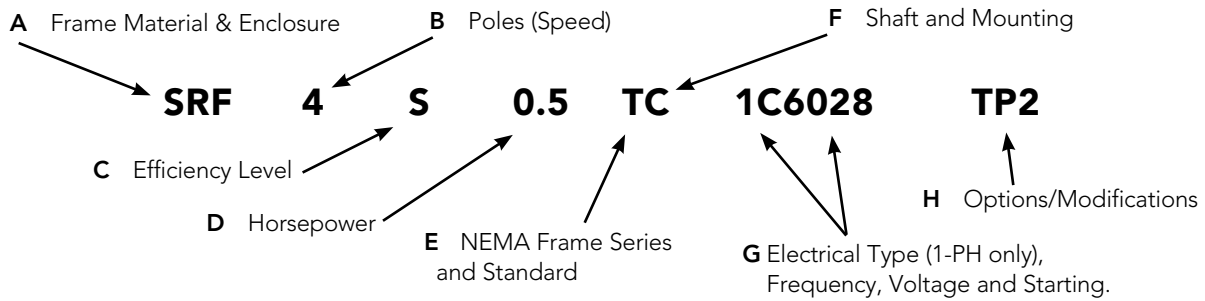
POSITION 8: MODIFICATION LETTER

Major modification letter. Used when revisions made in existing model will affect service parts.

Technical Information

Lincoln Motors Model Number Defined

A Typical Single Phase Motor Model Number



A Typical Three Phase Motor Model Number

EXAMPLE:

Position No.	A	B	C	D	E,F	G	H
Sample Three Phase Model No. SF2P50TSC619	SF	2	P	50	TSC	61Y	Options/Modifications
Sample One Phase Model No. SF2P50TSC619	SRF	4	S	0.5	TC	1C6028	

AP20 Division 2 Hazardous location Class 1, DIV2, Groups A,B,C,D

AP25 China sourced Ultimate E brand

AP26 MT2 plant sourced

CRI Crusher Duty

A Frame Material:

A, AA = Extruded aluminum
 AV = Alum 63 frame
 AP = Alum 71 frame
 AR = lum 80 frame
 C = Cast iron
 M = Steel (encapsulated windings, 284T-445T frames)
 S = Steel (143T-449T frames)

Signature Series Motors

SP = Steel (48 frames)
 SR = Steel (56 frames)
 SS = Steel (143T-215T frames)
 CC = Cast iron (143T and larger)

Enclosure (follows Frame Material*):

A = TEAO FW = TEFC, Washdown
 B = TEBC FX = TE, Explosion-proof
 D = ODP NW = TENV, Washdown
 E = ODP-Encapsulated RA = TEAO, Steel
 EW = Wash-ThruTM Motor NX = XP, TENV
 F = TEFC YF = TEFC, Metric
 RN = Steel TENV 48 frame PA = Steel 48 frame
 N = TENV PN = Steel TENV 48 frame
 P = Severe Duty IEEE 841 RN = Steel TENV 48 frame
 S = Severe Duty

B Number of Magnetic Poles: this leads to motor synchronous speed (rpm).

Poles	Speed 60 Hz	Speed 50 Hz
2	3600 RPM	3000 RPM
4	1800	1500
6	1200	1000
8	900	750

Single speed motors:

4 = 1800 (60 Hz) or 1500 (50 Hz)

Two speed motors:

2/4/1 = 3600 and 1800 (60 Hz), one winding

4/8/2 = 1800 and 900 (60 Hz), two windings

C Efficiency Level:

B = Exceeds NEMA MG-1 Table 12-12
 G = Below NEMA MG-1 Table 12-11, GM7EQ
 P = Meets EPAAct, NEMA MG-1 Table 12-11 and GM-7EH.
 S, H = Below NEMA MG-1 Tables 12-11 and 12-12

D Horsepower:

Single speed motor examples: 0.25, 0.5, 1.5, 75, 800

Horsepower range example: 5-7 = 5 to 7

Two speed motor example:

10/2.5 = 10 HP high speed, 2.5 HP low speed

E NEMA Frame Series and Dimensions:

T or U = sets frame number and dimensions in accordance with NEMA T or U design standards for the motor's HP, speed and enclosure.
E = Metric design IEC

F Shaft and Mounting:

AD = Auger drive R = Resilient mount
 C = C-Face, B14 S = NEMA short shaft
 D = D-Flange, B5 Y = special mounting
 J = Jet Pump (ie. extended thru-bolts)
 JM = JM Pump Mount Z = non-standard shaft
 JP = JP Pump Mount dimensions (-1, -2, -3, etc.
 L = Locked bearing will appear at the end of
 N = No feet the Model Number)

Double shaft motors are identified by two symbols, the first for the "normal drive end" and the second for the "opposite normal drive end": SD4B30TTM61Y and SD4P75TSTS61Y

Each end of the double shaft can have its own mounting: MD4S125TSCTSC61 and CS6P15TTMC61Y

Mounting symbols are listed in alphabetical order when more than one is specified: SSD2S25TJMN61

G Electrical Type (Single Phase Only):

1A = permanent split capacitor
 1B = capacitor start, capacitor run
 1C = capacitor start, induction run
 1N = split phase start, capacitor run
 1S = split phase

Frequency:

6_ = 60 Hz and 5_ = 50 Hz

Voltage:

The specific number has no significance. Lincoln will assign the next number in sequence to a new, previously unmanufactured voltage when it is ordered.

Commonly used voltage codes:

60 Hz	50 Hz
61 = 230/460 V	51 = 220/380 V
62 = 200/400	52 = 240/415
63 = 208	53 = 230/400
64 = 460	54 = 200/400
65 = 575	55 = 380
67 = 440	56 = 400
68 = 380	57 = 415
69 = 480	58 = 440
6003 = 220/380	59 = 220/440
6004 = 220/440	5001 = 190/380
6020 = 2300	5007 = 346
6021 = 4000	5012 = 550
6024 = 2300/4000	5014 = 380-415

Reduced Voltage Start Capability:

P = Part winding start (PWS)
 Y = Wye-delta start (YDS)
 PY = PWS and YDS

H Options/Modifications:

If a motor has more than one Option / Modification, the symbols will appear in alphabetical order.

AP1 CE Compliant Motor
 AP5 Fire Pump certified
 AP7 Farm Duty, High Torque
 AP8 Farm Duty, Extra High Torque
 AP9 Grain Stirring
 AP10 PSC Variable Speed
 AP11 PSC Variable Speed, expanded speed range
 AP13 UL Listed Class 1 Groups C & D and Class 2 Groups F & G, thermostats
 AP14 UL Listed Class 1 Groups C & D and Class 2 Groups F & G, auto reset thermal protector
 AP15 UL Listed Class 1 Group D and Class 2 Groups F & G, thermostats
 AP21 China Sourced
 AP25 China Sourced Ultimate E
 B F-2 Mount
 C_ Ceiling Mount - NEMA position follows "C"; 1-2
 E3 Class H Insulation
 E5 Class H Insulation & High Temperature Grease
 F Fungus Proofing (Tropicalization)
 H4 Leads exit motor at 12 o'clock position
 HS Precision Dynamic Balance
 HT1 Space Heater, 120V
 HT2 Space Heater, 240 V
 K Omit Terminal Box
 L_ Additional Lead Length - "L" followed by additional length in inches
 MB3 Insulated bearings, both ends
 MB6 Double sealed bearings, both ends
 MK_ Brake installed on motor
 Q1 VTAC® Inverter Duty Motor
 Q10 CTAC® Inverter Duty Motor with provision for mounting feedback device
 Q15 CTAC Inverter Duty Motor with factory installed Dynapar 625 1024 ppr encoder
 Q15_ CTAC Inverter Duty Motor with factory installed encoder - letter following "Q15" represents brand and ppr rating of encoder, A through S.
 Q20 CTAC Inverter Duty motor without provision for mounting feedback device
 Q40 CTAC Inverter Duty Motor without provision for mounting feedback device
 QS10 Crop dryer (single phase, auto reset)
 QS11 Crop dryer (single phase, thermostats)
 QS12 Crop dryer (three phase, thermostats)
 RB Roller bearing on drive end
 T1 Thermostats, Class F, 3 in series
 TD1,2 RTD - Winding, 100 Ω platinum
 TD4 RTD - Winding, 10 Ω copper
 TD6 RTD - Winding, 120 Ω nickel
 TP1 Overload protection, manual reset
 TP2 Overload protection, auto reset
 TX1 Thermistors, 3 in series
 W_ Wall Mount - W followed by NEMA position number, 1-8
 X_ Paint color deviation

Single Phase ODP Motors

Single Phase Motors – General Purpose – Drip-Proof – 115/208-230V

Rigid Mount – 1/12 HP – 10 HP – Frame sizes - 42 – 215T

Resilient Base Mount – ¼ HP – 2 HP – Frame sizes – 48 - 56



- Durable rolled steel construction
- NEMA design B performance
- Meets or exceeds NEMA service factors
- Double shielded ball bearings
- Continuous duty
- Thermally protected ratings
- UL recognized component listing and CSA certified
- 1-year warranty on general purpose motors
- 3-year warranty on Premium efficient motors

Applications:

- For use where water and dust exposure is minimal. Ideally suited for use on pumps, compressors, blowers, fans and other standard industrial applications



Single Phase ODP Motors

Capacitor Start – General Purpose

Single Phase – Drip-Proof – Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥ Notes
1/4	1800	48	101423.00	✓	374	M4C17DB33	16	115/208-230	Man.	2.7	1.35	8.87	S, MX
	1800	48	100115.00	✓	310	A4C17DB1	16	115/208-230	Auto.	2.7	1.35	8.87	S, MX
	1800	S56	100000.00	✓	353	A4C17DH1	17	115/208-230	Auto.	2.7	1.35	9.24	S, MX
	1800	S56	LM24457	✓	366	SPD4S0.25T1C6028	17	115/208-230	None	2.5	1.35	9.84	S, MX
1/3	3600	S56	100336.00	✓	289	C4C34DH11	26	115/208-230	None	2.8	1.35	8.99	S, MX
	1800	48	100116.00	✓	353	A4C17DB2	17	115/208-230	Auto.	3.3	1.35	8.87	S, MX
	1800	S56	100006.00	✓	367	C4C17DH7	18	115/208-230	None	3.3	1.35	9.24	S, MX
	1800	S56	LM24570	C/A	383	SRD4S0.33T1CC6028	18	115/208-230	None	3.2	1.35	9.24	S, MX
	1800	S56	100588.00	✓	419	M4C17DH46	18	115/208-230	Man.	3.3	1.35	9.24	S, MX
	1800	S56	LM24550	✓	435	SRD4S0.33T1C6028TP1	18	115/208-230	Man.	3.2	1.35	10.22	S, MX
	1800	S56	100001.00	✓	417	A4C17DH2	18	115/208-230	Auto.	3.3	1.35	9.24	S, MX
	1200	S56	110001.00	✓	527	C6C11DB1	29	115/208-230	None	3.9	1.35	10.88	S, US
1/2	3600	48	100184.00	✓	319	C4C34DB1	19	115/208-230	None	3.4	1.25	9.62	S, MX
	3600	48	LM24465	C/A	332	SPD2S0.5T1C6028	18	115/208-230	None	4.4	1.25	10.34	S, MX
	3600	S56	100337.00	✓	319	C4C34DH12	20	115/208-230	None	3.4	1.25	9.99	S, MX
	3600	S56	100052.00	✓	346	M4C34DH2	21	115/208-230	Man.	3.4	1.25	9.99	S, MX
	1800	48	100338.00	✓	446	C4C17DB12	20	115/208-230	None	4.4	1.25	9.62	S, MX
	1800	S56	100007.00	✓	403	C4C17DH8	21	115/208-230	None	4.4	1.25	9.99	S, MX
	1800	S56	LM24551	✓	421	SRD4S0.5T1C6028	22	115/208-230	None	4.3	1.25	11.72	S, MX
	1800	S56	100004.00	✓	494	M4C17DH5	21	115/208-230	Man.	4.4	1.25	9.99	S, MX
	1800	S56	100002.00	✓	469	A4C17DH3	20	115/208-230	Auto.	4.4	1.25	9.99	S, MX
	1800	S56	LM24552	C/A	492	SRD4S0.5T1C6028TP2	22	115/208-230	Auto.	4.3	1.25	11.72	S, MX
	1200	S56	110002.00	✓	796	C6C11DB2	32	115/208-230	None	5.0	1.25	11.38	S, US
	3600	S56	100340.00	✓	389	C4C34DH13	24	115/208-230	None	4.9	1.25	10.49	S, MX
3/4	3600	S56	LM24674	C/A	408	SRD2S0.75T1C6028	21	115/208-230	None	4.8	1.25	10.97	S, MX
	3600	S56	100053.00	✓	435	M4C34DH3	24	115/208-230	Man.	4.9	1.25	10.49	S, MX
	1800	S56	100008.00	✓	498	C4C17DH9	26	115/208-230	None	5.4	1.25	10.99	S, MX
	1800	S56	LM24502	✓	520	SED4S0.75T1B6028	26	115/208-230	None	5.5	1.25	11.47	S, MX
	1800	S56	100005.00	✓	589	M4C17DH6	25	115/208-230	Man.	5.4	1.25	10.99	S, MX
	1800	S56	LM24504	✓	651	SRD4S0.75T1B6028TP1	18	115/208-230	Man.	5.5	1.25	11.47	S, MX
	1800	S56	101544.00	C/A	629	M4K17DH2	28	115/208-230	Man.	4.0	1.25	11.24	S, MX
	1800	S56	100003.00	✓	574	A4C17DH4	25	115/208-230	Auto.	5.4	1.25	10.99	S, MX
	1800	S56	LM24503	C/A	600	SRD4S0.75T1B6028TP2	25	115/208-230	Auto.	5.5	1.25	11.47	S, MX
	1200	S56H	110003.00	✓	897	C6C11DB3	44	115/208-230	None	6.4	1.15	12.88	S, US

▼ LM Numbers are Lincoln Models

C/A - Check Availability

Specifications are subject to change without notice

♥ Note listing on inside back flap

Continued On Next Page

View On-line Technical Information



Tech Information

Single Phase
ODP Motors

Single Phase
TEFC Motors

Single Phase
C Face Motors

Three Phase
ODP Motors

Three Phase
TEFC Motors

Three Phase
C Face Motors

Inverter Duty
Motors

Severe Duty
Motors

Single Phase ODP Motors

Capacitor Start – General Purpose

Single Phase – Drip-Proof – Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
1	3600	56	110360.00	✓	410	C6C34DB19	28	115/208-230	None	6.0	1.25	10.84	S, US
	3600	56	110097.00	✓	450	M6C34DB3	28	115/208-230	Man.	6.0	1.25	10.84	S, US
	1800	56	110004.00	✓	542	C6C17DB2	28	115/208-230	None	6.4	1.15	10.88	S, US
	1800	56	LM24580	✓	567	SRD4SITIC6028TP1	20	115/208-230	None	6.7	1.15	11.44	S, MX
	1800	56	110167.00	✓	637	M6C17DB7	30	115/208-230	Man.	6.4	1.15	10.88	S, US
	1800	56	LM24582	✓	666	SRD4S1T1C6028TP1	29	115/208-230	Man.	6.7	1.15	11.44	S, MX
	1800	56	113630.00	✓	683	M6K17DB33	31	115/208-230	Man.	5.3	1.15	10.88	S, US, 53
	1800	56	110000.00	✓	613	A6C17DB1	28	115/208-230	Auto.	6.4	1.15	10.88	S, US
	1800	143T	120044.00	✓	606	C143C17DB3	38	115/208-230	None	6.4	1.15	11.13	S, US
	1800	143T	120003.00	✓	637	M143C17DB2	33	115/208-230	Man.	6.4	1.15	11.13	S, US
	1800	143T	120000.00	✓	636	A143C17DB1	32	115/208-230	Auto.	6.4	1.15	11.13	S, US
1 1/2	3600	56	110361.00	✓	580	C6C34DB20	29	115/208-230	None	8.2	1.15	10.84	S, US
	3600	56	110110.00	✓	589	M6C34DB4	28	115/208-230	Man.	8.2	1.15	10.84	S, US
	3600	56	113631.00	✓	597	M6K34DB15	36	115/208-230	Man.	6.2	1.15	11.34	S, US, 53
	3600	143T	120107.00	C/A	580	C143C34DB1	32	115/208-230	None	8.2	1.15	11.28	S, US
	1800	56H	110005.00	✓	705	C6K17DB1	37	115/208-230	None	8.6	1.15	11.84	S, US, 53
	1800	56H	LM24583	C/A	738	SRD4S1.5T1C6028	40	115/208-230	None	9.0	1.15	12.44	S, MX
	1800	56H	110006.00	✓	768	P6K17DB2	38	115/208-230	Man.	8.6	1.15	11.84	S, US, 53
	1800	56H	113266.00	✓	796	M6K17DB30	42	115/208-230	Man.	6.7	1.15	12.38	S, US, 53
	1800	145T	120042.00	✓	669	C145K17DB5	38	115/208-230	None	8.6	1.15	12.28	S, US, 53
	1800	145T	LM24687	✓	702	SSD4S1.5T1C6028	41	115/208-230	None	9.0	1.15	12.44	S, MX
	1800	145T	120004.00	✓	850	P145K17DB3	40	115/208-230	Man.	8.6	1.15	12.28	S, US, 53
	1800	145T	120001.00	✓	850	U145K17DB1	40	115/208-230	Auto.	8.6	1.15	12.28	S, US, 53
2	3600	56	110363.00	✓	768	C6C34DB22	37	115/208-230	None	10.0	1.15	11.84	S, US
	3600	56	110362.00	C/A	800	P6C34DB21	38	115/208-230	Man.	10.0	1.15	12.34	S, US
	3600	56	113632.00	✓	806	P6K34DB16	38	115/208-230	Man.	8.6	1.15	11.34	S, US, 53
	3600	145T	120106.00	✓	827	C145C34DB3	40	115/208-230	None	10.0	1.15	12.28	S, US
	1800	56H	116704.00	✓	850	P6K17DB47	45	115/208-203	Man.	8.6	1.15	12.88	S, US, 53
	1800	145T	120067.00	✓	798	C145K17DB9	42	115/230	None	10.5	1.15	13.28	S, US, 53
	1800	145T	LM24677	✓	835	SSD4S2T1B6028	49	115/208-230	None	10.5	1.15	13.49	S, MX, 53
	1800	145T	120879.00	✓	894	P145K17DB38	51	115/208-230	Man.	8.6	1.15	13.31	S, US, 53
	1800	182T	131515.00	✓	827	C182C17DB8	56	115/208-230	None	12.4	1.15	13.19	S, MX
	1800	182T	131536.00	✓	885	P182C17DB10	63	115/208-230	Man.	12.4	1.15	13.19	S, MX
	1800	182T	131535.00	✓	880	U182C17DB9	63	115/208-230	Auto.	12.4	1.15	13.19	S, MX

▼ LM Numbers are Lincoln Models

C/A - Check Availability

Specifications are subject to change without notice

♥ Note listing on inside back flap

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View On-line Technical Information

Single Phase ODP Motors

Capacitor Start – General Purpose

Single Phase – Drip-Proof – Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥ Notes
3	3600	56H	116706.00	✓	857	M6C34DB75	39	230	Man.	15.0	1.00	12.38	S, US
	3600	182T	131636.00	✓	951	C182K34DB3	74	115/208-230	None	14.0	1.15	14.18	S, MX, 53
	1800	184T	131534.00	✓	895	C184C17DB19	69	115/230	None	16.9	1.15	14.19	S, MX
	1800	184T	131561.00	✓	1058	P184C17DB21	76	115/230	Man.	16.9	1.15	14.19	S, MX
	1800	184T	131851.00	C/A	1057	C184K17D0B40	72	208-230	Man.	13.7	1.15	15.22	S, MX, 53
	1800	184T	131530.00	✓	1058	U184C17DB20	69	115/230	Auto.	16.9	1.15	14.19	S, MX
5	3600	56H	116708.00	✓	876	P6K34DB26	45	230	Man.	20.8	1.00	13.34	S, US, 53
	3600	184T	131616.00	✓	1131	C184K34DB3	84	208-230	None	22.0	1.15	14.69	S, MX, 53
	3600	184T	LM24681	C/A	1160	SS184D2S5T1C6008	78	208-230	None	24.0	1.15	14.72	S, MX, 53
	1800	184T	131537.00	✓	1074	C184K17DB31	83	208-230	None	21.0	1.15	14.69	S, MX, 53
	1800	184T	LM24682	✓	1097	SSD4S5T1B6008	87	208-230	None	21.0	1.15	15.72	S, MX, 53
	1800	184T	131560.00	✓	1074	C184K17DB32	82	208	None	23.2*	1.15	14.69	S, MX, 53
7 1/2	1800	184T	131622.00	✓	1284	P184K17DB33	82	208-230	Man.	21.0	1.15	14.69	S, MX, 53
	3600	184T	132044.00	✓	1034	C184K34DB8	110	208-230	Tstat	31.0	1.15	16.69	S, MX, 53
	3600	213T	140680.00	✓	1747	C213K34DB1	112	208-230	None	29.5	1.15	16.55	S, MX, 53
	1800	215T	140155.00	✓	1525	C215K17DB2	113	230	None	36.0	1.15	17.26	S, MX, 53
10	1800	215T	LM24683	✓	1609	SS15D4S7.5T1B6008	118	208-230	None	34.5	1.15	18.05	S, MX, 53
	3600	215T	140681.00	✓	2208	C215K34DB1	135	208-230	None	37.0	1.15	18.05	S, MX, 53
	1800	215TZ	140311.00	✓	2229	C215K17DB4	140	230	None	43.0	1.25	19.76	S, MX, 24, 53
	1800	215	LM24684	✓	2283	SSD4S10T1B6008	140	208-230	None	44.0	1.15	19.29	S, MX, 53

* F.L. Amps at 208V

♥ Note listing on inside back flap

▼ LM Numbers are Lincoln Models

C/A - Check Availability

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View On-line Technical Information



Tech Information

Single Phase
ODP Motors

Single Phase
TEFC Motors

Single Phase
C Face Motors

Three Phase
ODP Motors

Three Phase
TEFC Motors

Three Phase
C Face Motors

Inverter Duty
Motors

Severe Duty
Motors

Single Phase ODP Motors

Wattsaver® Premium Efficiency Fan Motors



Features Include:

- Premium Efficient
- Class F insulation
- Terminal boards
- Shielded ball bearings

Single Phase – Drip-Proof – Resilient Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 115 V	Service Factor	% F. L. Eff.	"C" Dim. (Inches)	♥ Notes
1/4	1800	48	101602.00	√	406	A4K17DR7	19	115	Auto.	2.5	1.35	71.0	10.39	S, MX, 32, 53
1/3	1800	48	101405.00	√	480	A4K17DR5	19	115	Auto.	3.2	1.35	75.0	10.39	S, MX, 32, 53
1/2	1800	48	101585.00	√	549	A4K17DR6	25	115	Auto.	4.6	1.35	76.0	11.39	S, MX, 32, 53

Green items are Premium Efficient

♥ Note listing on inside back flap

Specifications are subject to change without notice



View On-line Technical Information





Single Phase ODP Motors

Compressor Duty Motors – Compressor – Pump and Fan & Blower Duty

General Specifications:

Motors designed for air compressor, pump, fan and blower duty applications which require high breakdown torque and rugged mechanical construction.

Mechanical Features:

- Double shielded ball bearings
- Designed for belted loads

Electrical Features:

- High efficient copper windings
- High starting and breakdown torque
- Dual rotation

Single Phase – Drip-Proof – Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥ Notes
1	3600	56	110160.00	✓	445	M6C34DB6	27	115/230	Man.	6.7	SPEC	11.38	S, US
	1800	143T	120044.00	✓	606	C143C17DB3	38	115/208-230	None	6.4	1.15	11.28	S, US
	1800	143T	120003.00	✓	637	M143C17DB2	33	115/208-230	Man.	6.4	1.15	11.13	S, US
1 1/2	3600	56	110161.00	✓	488	P6C34DB7	33	115/230	Man.	10.0	SPEC	11.88	S, US
	1800	145T	120042.00	✓	669	C145K17DB5	38	115/208-230	None	8.6	1.15	12.28	S, US, 53
	1800	145T	LM24687	C/A	702	SSD4S1.5T1C602	41	115/208-230	None	8.6	1.15	12.49	S, US
	1800	145T	120004.00	✓	850	P145K17DB3	40	115/208-230	Man.	8.6	1.15	12.28	S, US, 53
2	3600	56	110232.00	✓	509	M6C34DB11	33	115/230	Man.	11.0	SPEC	11.88	S, US
	1800	182T	131515.00	✓	827	C182C17DB8	56	115/208-230	None	12.4	1.15	13.19	S, MX
	1800	182T	131536.00	✓	885	P182C17DB10	63	115/208-230	Man.	8.8	1.15	10.66	S, MX
3	3600	56Y	110222.00	✓	571	M6C34DB13	38	230	Man.	15.0	1.15	12.38	S, US, 36
	1800	184T	131534.00	✓	895	C184C17DB19	69	115/230	None	16.9	1.15	14.19	S, MX
5SPL	3600	56	116523.00	✓	688	P6K34DB22	35	208-230	Man.	15.0	1.00	11.44	S, US, 53, □
5	3600	56Y	111275.00	✓	710	P6K34DB5	44	230	Man.	20.8	1.00	13.34	S, US, 36, 53
	3600	56Y	116789.00	✓	731	P6K34DB27	45	230	Man.	20.8	1.00	12.38	S, US, 10, 53
	3600	145T	120554.00	✓	718	P145K34DB1	46	230	Man.	20.8	1.00	13.12	S, US, 53
	1800	184T	131537.00	✓	1074	C184K17DB31	83	230	None	21.0	1.15	14.69	S, MX, 53
	1800	184T	LM24682	✓	1097	SSD4S5T1B600	87	208-230	None	21.0	1.15	14.69	S, MX, 53
	1800	184T	131622.00	✓	1284	P184K17DB33	82	230	Man.	21.0	1.15	14.69	S, MX, 53
	1800	184T	132044.00	✓	1034	C184K34DB8	110	208-230	Tstat	31.0	1.15	16.69	S, MX, 53
7 1/2	3600	213T	140680.00	✓	1747	C213K34DB1	112	208-230	None	29.5	1.15	16.55	S, MX, 53
	1800	215T	140155.00	✓	1525	C215K17DB2	113	230	None	36.0	1.15	17.26	S, MX, 53
	1800	215T	LM24683	✓	1609	SS215D4S7.5T1B600	118	208-230	None	36.0	1.15	17.26	S, MX, 53
	1800	215T	140681.00	✓	2208	C215K34DB1	135	208-230	None	37.0	1.15	18.05	S, MX, 53
10	3600	215TZ	140311.00	✓	2229	C215K17DB4	140	230	None	43.0	1.25	19.76	S, MX, 53
	1800	215TZ	LM24684	✓	2283	SSD4S10T1B600	140	208-230	None	43.0	1.15	19.76	S, MX, 53

▼ LM Numbers are Lincoln Models

♥ Note listing on inside back flap

C/A - Check Availability

□ - Note: 3HP Continuous duty and 5HP Breakdown torque

Specifications are subject to change without notice

View On-line Technical Information



Tech Information

Single Phase
ODP Motors

Single Phase
TEFC Motors

Single Phase
C Face Motors

Three Phase
ODP Motors

Three Phase
TEFC Motors

Three Phase
C Face Motors

Inverter Duty
Motors

Severe Duty
Motors

Single Phase ODP Motors

Pressure Washer Pump Motors



General Specifications:

Motors specially suited for hot or cold pressure washer applications and other single phase installations requiring minimum starting and running amperages. Capacitor start, capacitor run construction for reduced amperage.

Mechanical Features:

- Double shielded ball bearings
- Dynamically balanced rotors

Electrical Features:

- Windings dipped in heavy duty varnish system
- Capacitor start / capacitor run designs to reduce amp draw
- Manual reset overload protection
- High service factor

Single Phase – Drip-Proof – Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over-load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥ Notes
3/4	3600	S56	100053.00	✓	435	M4C34DH3	24	115/208-230	Man.	4.9	1.25	10.49	S, MX
	1800	S56	101544.00	C/A	629	M4K17DH2	28	115/208-230	Man.	4.0	1.25	11.24	S, MX, 53
1	3600	56	110097.00	✓	450	M6C34DB3	27	115/208-230	Man.	6.0	1.25	10.84	S, US
	1800	56	113630.00	✓	683	M6K17DB33	31	115/208-230	Man.	5.3	1.15	10.84	S, US, 53
1 1/2	3600	56	113631.00	✓	597	M6K34DB15	36	115/208-230	Man.	6.2	1.15	11.34	S, US, 53
	1800	56H	113266.00	✓	796	M6K17DB30	42	115/208-230	Man.	6.7	1.15	12.38	S, US, 6, 53
	1800	145T	120004.00	✓	850	P145K17DB3	40	115/208-230	Man.	8.6	1.15	12.28	S, US, 53
2	3600	56	113632.00	✓	806	P6K34DB16	36	115/208-230	Man.	8.6	1.15	11.34	S, US, 53
	1800	56H	116704.00	✓	850	P6K17DB47	45	115/208-230	Man.	8.6	1.15	12.88	S, US, 6, 53
	1800	145T	120879.00	✓	894	P145K17DB38	53	115/208-230	Man.	8.6	1.15	13.31	S, US
3	3600	56H	116706.00	✓	857	M6C34DB75	39	230	Man.	15.0	1.00	12.38	S, US, 6, 53
	1800	184T	131851.00	C/A	1057	184TBDR7675	72	208-230	Man.	13.7	1.15	15.22	S, MX, 9
5	3600	56H	116708.00	✓	876	P6K34DB26	45	230	Man.	20.8	1.00	13.34	S, US, 6, 53
	1800	184T	131622.00	✓	1284	P184K17DB33	82	208-230	Man.	21.0	1.15	14.69	S, MX

C/A - Check Availability

♥ Note listing on inside back flap

Specifications are subject to change without notice



View On-line Technical Information





Single Phase ODP Motors

Resilient Base Motors – General Purpose or Fan Duty

General Specifications:

- Industrial quality resilient base
- Moderate starting torque
- Belt driven fans or fan on shaft applications
- Self ventilated designs

Drip-Proof – Single Phase – Resilient Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over-load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥ Notes
1/4	3600	48	101434.00	✓	312	A4C34DR8	16	115/208-230	Auto.	2.0	1.00	9.39	S, MX
	1800	48	100109.00	✓	366	A4C17DR1	17	115/208-230	Auto.	2.7	1.35	9.89	S, MX
	1800	48	100111.00	✓	316	A4C17DR3	17	115/208-230	Auto.	2.7	1.00	9.89	S, MX
	1800	48	102963.00	C/A	366	A4C17DR47	17	277	Auto.	2.2*	1.35	9.89	S, MX
1/3	3600	48	101431.00	✓	320	A4C34DR11	17	115/208-230	Auto.	2.3	1.00	9.39	S, MX
	1800	48	100110.00	✓	447	A4C17DR2	18	115/208-230	Auto.	3.3	1.35	9.89	S, MX
	1800	48	101015.00	✓	366	A4C17DR31	18	115/208-230	Auto.	3.3	1.00	9.89	S, MX
	1800	S56	100014.00	✓	421	C4C17DJ5	19	115/208-230	None	3.3	1.35	10.31	S, MX
	1800	S56	100010.00	✓	447	A4C17DJ2	18	115/208-230	Auto.	3.3	1.35	10.31	S, MX
	1800	S56	100063.00	✓	366	A4C17DJ9	19	115/208-230	Auto.	3.3	1.00	10.31	S, MX
	1800	S56	102964.00	✓	447	A4C17DJ72	18	277	Auto.	2.8*	1.35	10.31	S, MX
	1800	S56	102965.00	✓	481	A4C17DJ74	22	277	Auto.	3.7*	1.25	10.81	S, MX
1/2	3600	48	101432.00	✓	353	A4C34DR10	20	115/208-230	Auto.	3.4	1.00	9.89	S, MX
	1800	S56	100015.00	✓	454	C4C17DJ6	21	115/208-230	None	4.4	1.25	10.81	S, MX
	1800	S56	100045.00	✓	435	M4C17DJ17	20	115/208-230	Man.	4.4	1.00	10.81	S, MX
	1800	S56	101611.00	✓	481	A4C17DJ57	22	115/208-230	Auto.	4.4	1.25	10.81	S, MX, 32
	1800	S56	100011.00	✓	481	A4C17DJ3	22	115/208-230	Auto.	4.4	1.25	10.81	S, MX
	1800	S56	100064.00	✓	437	A4C17DJ10	20	115/208-230	Auto.	4.4	1.00	10.81	S, MX
	1800	S56	102965.00	✓	481	A4C17DJ74	22	277	Auto.	3.7*	1.25	10.81	S, MX
	1800	S56H	102966.00	✓	595	A4C17DJ73	26	277	Auto.	4.5*	1.25	11.81	S, MX
3/4	3600	48	101433.00	✓	416	A4C34DR9	22	115/208-230	Auto.	4.8	1.00	10.39	S, MX
	3600	S56H	100603.00	✓	443	A4C34DJ7	26	115/208-230	Auto.	4.9	1.25	11.31	S, MX
	1800	S56H	100016.00	✓	570	C4C17DJ7	26	115/208-230	None	5.4	1.25	11.81	S, MX
	1800	S56H	100046.00	✓	595	M4C17DJ18	26	115/208-230	Man.	5.4	1.25	11.81	S, MX
	1800	S56H	100047.00	✓	498	M4C17DJ19	25	115/208-230	Man.	5.5	1.00	11.81	S, MX
	1800	S56H	101839.00	✓	595	A4C17DJ67	28	115/208-230	Auto.	5.4	1.25	11.81	S, MX, 32
	1800	S56H	100012.00	✓	595	A4C17DJ4	26	115/208-230	Auto.	5.4	1.25	11.81	S, MX
	1800	S56H	100065.00	✓	493	A4C17DJ11	25	115/208-230	Auto.	5.5	1.00	11.81	S, MX
1	3600	56H	110478.00	✓	511	A6C34DR6	28	115/208-230	Auto.	6.0	1.25	11.85	S, US
	1800	56H	113027.00	✓	620	C6C17DR37	30	115/208-230	None	6.4	1.15	11.81	S, US
	1800	56H	110007.00	✓	645	A6C17DR1	29	115/208-230	Auto.	6.4	1.15	11.81	S, US
	1800	56H	110054.00	✓	630	A6C17DR2	32	115/208-230	Auto.	6.4	1.00	11.81	S, US
	1800	56H	116599.00	✓	645	A6C17DR54	29	277	Auto.	5.4*	1.20	11.82	S, US
	1800	56H	116600.00	C/A	780	A6K17DR41	38	277	Auto.	6.0*	1.15	12.82	S, US
1 1/2	3600	56H	110479.00	✓	657	A6C34DR7	30	115/230	Auto.	8.2	1.15	11.82	S, US
	1800	56H	110579.00	✓	780	A6K17DR6	38	115/208-230	Auto.	7.2	1.15	12.82	S, US, 6, 53
	1800	56H	116600.00	C/A	780	A6K17DR41	38	277	Auto.	6.0*	1.15	12.82	S, US
2	3600	56H	113633.00	C/A	823	U6C34DR21	38	115/208-230	Auto.	10.0	1.15	13.82	S, US
	1800	56H	113608.00	✓	831	A6K17DR28	45	115/208-230	Auto.	10.0	1.15	13.81	S, US, 6, 53
	1800	56H	116601.00	✓	831	A6K17DR42	45	277	Auto.	8.7*	1.15	13.82	S, US

* F.L. Amps at 277V

♥ Note listing on inside back flap

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Tech Information

Single Phase
ODP Motors

Single Phase
TEFC Motors

Single Phase
C Face Motors

Three Phase
ODP Motors

Three Phase
TEFC Motors

Three Phase
C Face Motors

Inverter Duty
Motors

Severe Duty
Motors

Single Phase TEFC Motors

Standard and Premium Efficiency –

General Purpose – 115/208-230 Volt

Rigid Mount – 1/12 HP – 10 HP – 42 through 215T frame

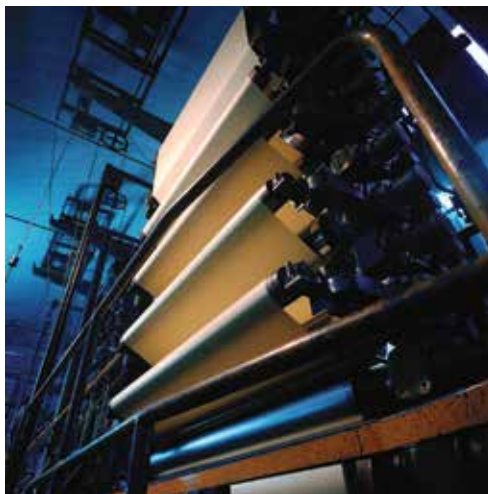
Resilient Mount – ½ HP – 1 HP – 56 frame



- Durable rolled steel construction
- NEMA Design B performance
- Meets or exceeds NEMA service factors
- Double shielded ball bearings
- Continuous duty
- Thermally protected ratings
- 1-year warranty on general purpose motors
- 3-year warranty on Premium efficient motors
- UL recognized component listing and CSA certified

Applications:

For use where exposure to water, dust and dirt exists. Ideally suited for use on pumps, compressors, fans, conveyors and other industrial equipment.



Single Phase TEFC Motors

Capacitor Start – General Purpose

Single Phase - TEFC - Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over-load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥ Notes
1/12	1800	42	092111.00	✓	319	C42C17FB3	14	115/208-230	None	1.1	1.15	8.94	S, US
1/8	1800	42	092114.00	✓	331	C42C17FB2	16	115/208-230	None	1.6	1.15	9.44	S, US
1/6	1800	42	092116.00	✓	363	C42C17FB1	17	115/208-230	None	2.1	1.15	9.44	S, US
	1800	48	102012.00	✓	360	C4C17FB23	17	115/208-230	None	2.0	1.15	9.06	S, MX
	1200	48	102013.00	✓	511	C4C11FB3	23	115/208-230	None	1.9	1.15	10.31	S, MX
1/4	3600	42	092112.00	✓	368	C42C34FB3	19	115/208-230	None	2.1	1.15	9.94	S, US
	1800	48	102014.00	✓	353	C4C17FB21	20	115/208-230	None	2.7	1.15	9.06	S, MX
	1800	48	101446.00	✓	407	M4C17FB10	18	115/208-230	Man.	2.7	1.15	9.06	S, MX
	1800	S56	LM24606	C/A	481	SRF4S0.25T1C6028	18	115/208-230	None	2.1	1.15	10.22	S, MX
	1200	48	102015.00	✓	544	C4C11FB4	23	115/208-230	None	3.2	1.15	11.31	S, MX
	1200	56	114617.00	✓	574	C6C11FB7	30	115/208-230	None	2.8	1.15	11.81	S, US
1/3	3600	48	102016.00	✓	338	C4C34FB10	21	115/208-230	None	2.8	1.15	9.06	S, MX
	1800	48	100955.00	✓	391	C4C17FB3	19	115/208-230	None	3.3	1.15	9.56	S, MX
	1800	48	102018.00	✓	449	M4C17FB22	20	115/208-230	Man.	3.3	1.15	9.56	S, MX
	1800	S56	102931.00	✓	389	C4C17FH31	23	115/208-230	None	3.1	1.15	10.44	S, MX
	1800	56	LM24597	✓	411	SRF4S0.33T1C6028	19	115/208-230	None	3.1	1.15	10.44	S, MX
	1800	S56	102933.00	✓	445	M4C17FH33	23	115/208-230	Man.	3.1	1.15	10.44	S, MX
	1800	S56	LM24602	C/A	469	SRF3S0.33T1C6028TP1	20	115/208-230	Man.	3.0	1.15	10.47	S, MX
	1800	S56	102932.00	✓	460	A4C17FH32	23	115/208-230	Auto.	3.1	1.15	10.44	S, MX
	1800	56	113765.00	✓	540	M6K17FB33	27	115/208-230	Man.	1.7	1.15	10.81	S, US, 53
	1200	48	102019.00	✓	600	C4C11FB5	28	115/208-230	None	3.1	1.00	11.56	S, MX
	1200	56	110009.00	✓	600	C6C11FB1	34	115/208-230	None	3.6	1.00	12.31	S, US
	1200	56	LM24546	✓	629	SRF6S0.33T1C6028	28	115/208-230	None	3.9	1.15	12.32	S, MX
1/2	3600	48	102020.00	✓	386	C4C34FB9	27	115/208-230	None	3.5	1.15	9.31	S, MX
	3600	S56	102905.00	✓	384	C4C34FH8	22	115/208-230	None	3.5	1.15	9.94	S, MX
	3600	56	LM24706	C/A	403	SRF2S0.5T1C6028	23	115/208-230	None	4.2	1.15	11.82	S, MX
	3600	S56	102904.00	✓	411	M4C34FH7	25	115/208-230	Man.	3.5	1.15	9.94	S, MX
	3600	56	LM24743	✓	431	SRF2S0.5T1C6028TP1	23	115/208-230	Man.	4.2	1.15	11.82	S, MX
	1800	48	100956.00	✓	449	C4C17FB4	22	115/208-230	None	4.0	1.15	10.31	S, MX
	1800	S56	102906.00	✓	445	C4C17FH28	22	115/208-230	None	4.0	1.15	10.69	S, MX
	1800	S56	LM24627	✓	469	SRF4S0.5T1C6028	24	115/208-230	None	4.0	1.15	11.22	S, MX
	1800	S56	102909.00	✓	521	M4C17FH30	22	115/208-230	Man.	4.0	1.15	10.69	S, MX
	1800	S56	LM24604	C/A	551	SRF2S0.5T1C6028TP1	24	115/208-230	Man.	4.0	1.15	11.22	S, MX
	1800	S56	102908.00	✓	534	A4C17FH29	25	115/208-230	Auto.	4.0	1.15	10.69	S, MX
	1800	56	113766.00	✓	600	M6K17FB34	30	115/208-230	Man.	2.5	1.15	11.31	S, US, 53
	1200	56	110011.00	✓	854	C6C11FB2	38	115/208-230	None	4.9	1.00	12.81	S, US

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Tech Information

Single Phase
ODP Motors

Single Phase
TEFC Motors

Single Phase
C Face Motors

Three Phase
ODP Motors

Three Phase
TEFC Motors

Three Phase
C Face Motors

Inverter Duty
Motors

Severe Duty
Motors

Single Phase TEFC Motors

Capacitor Start – General Purpose

Single Phase - TEFC - Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs.)	Voltage	Over-load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥ Notes
3/4	3600	56	110276.00	✓	431	C6C34FB15	26	115/208-230	None	5.0	1.15	11.31	S, US
	3600	56	110108.00	✓	459	M6C34FB7	26	115/208-230	Man.	5.0	1.15	11.31	S, US
	3600	56	LM24744	✓	477	SRF2S0.75T1C6028TP1	26	115/208-230	Man.	5.3	1.15	12.32	S, MX
	1800	56	110013.00	✓	534	C6C17FB2	29	115/208-230	None	5.4	1.15	11.31	S, US
	1800	56	LM24607	✓	557	SRF4S0.75T1C6028	30	115/208-230	None	5.5	1.15	12.32	S, MX
	1800	56	110022.00	✓	623	M6C17FB7	29	115/208-230	Man.	5.4	1.15	11.31	S, US
	1800	56	110017.00	✓	651	A6C17FB4	26	115/208-230	Auto.	5.4	1.15	11.31	S, US
	1800	56	113767.00	✓	708	M6K17FB35	35	115/208-230	Man.	3.2	1.15	11.81	S, US, 53
1	1200	56H	110400.00	✓	988	C6K11FB1	43	115/208-230	None	5.3	1.00	13.31	S, US, 53
	1200	56	LM24497	✓	1034	SRF6S0.75T1B6028	41	115/208-230	None	5.7	1.15	13.82	S, MX, 53
	3600	56	110059.00	✓	502	C6C34FB5	28	115/208-230	None	6.0	1.15	11.81	S, US
	3600	56	110142.00	✓	561	M6C34FB2	28	115/208-230	Man.	6.0	1.15	11.81	S, US
	3600	56	LM24745	✓	590	SRF2S1T1C6028TP1	31	115/208-230	Man.	6.2	1.15	12.32	S, MX
	1800	56	110209.00	✓	612	C6C17FB17	30	115/208-230	None	7.0	1.15	11.81	S, US
	1800	56	LM24610	✓	643	SRF4SITIC6028	32	115/208-230	None	6.7	1.15	12.82	S, MX
	1800	56	110023.00	✓	705	M6C17FB8	29	115/208-230	Man.	6.4	1.15	11.81	S, US
	1800	56	110018.00	✓	728	A6C17FB5	29	115/208-230	Auto.	6.4	1.15	12.31	S, US
	1800	56	113768.00	✓	812	M6K17FB36	37	115/208-230	Man.	4.2	1.15	12.31	S, US, 53
	1800	143T	120025.00	✓	675	C143C17FB3	34	115/208-230	None	6.4	1.15	12.75	S, US
	1800	143T	LM24709	C/A	707	SSF4S1T1C6028	34	115/208-230	None	6.7	1.15	12.87	S, MX
	1800	143T	120008.00	✓	705	M143C17FB2	31	115/208-230	Man.	6.4	1.15	12.75	S, US
	1200	145T	120043.00	✓	1131	C145K11FB1	49	115/230	None	6.7	1.00	14.25	S, US, 53
	3600	56	110094.00	✓	659	C6C34FB6	32	115/208-230	None	8.5	1.00	12.31	S, US
	3600	56H	LM24531	✓	688	SRF2S1.5T1B6028	35	115/208-230	None	7.1	1.15	12.82	S, MX, 53
1 1/2	3600	56	110109.00	✓	772	M6C34FB8	31	115/208-230	Man.	8.5	1.00	12.31	S, US
	3600	56H	LM24532	✓	807	SRF2S1.51B6028TP1	35	115/208-230	Man.	7.1	1.15	12.82	S, MX, 53
	3600	143T	120130.00	✓	659	C143C34FB1	36	115/208-230	None	8.5	1.00	13.25	S, US
	3600	143T	LM24710	C/A	688	SRF4S1.5T1B6028	39	115/208-230	None	7.1	1.15	12.87	S, MX, 53
	1800	56H	110253.00	✓	695	C6K17FB9	38	115/208-230	None	8.6	1.00	12.81	S, US, 53
	1800	56H	LM24513	✓	726	SSF4S1.5T1B6028	41	115/208-230	None	7.6	1.15	13.82	S, MX, 53
	1800	56H	113333.00	✓	798	M6K17FB32	38	115/208-230	Man.	8.6	1.00	12.81	S, US, 53
	1800	56H	LM24515	C/A	835	SRF3S1.5T1B6028TP1	41	115/208-230	Man.	7.6	1.15	13.82	S, MX, 53
	1800	56H	110019.00	✓	866	U6K17FB1	38	115/208-230	Auto.	8.6	1.00	12.81	S, US, 53
	1800	56H	113769.00	✓	923	M6K17FB37	43	115/208-230	Man.	6.5	1.15	13.31	S, US, 53
	1800	145T	120026.00	✓	695	C145K17FB3	44	115/208-230	None	8.6	1.00	13.25	S, US, 53
	1800	145T	LM24711	C/A	726	SSF4S1.5T1B6028	42	115/208-230	None	7.6	1.15	13.87	S, MX, 53
	1800	145T	120009.00	✓	798	M145K17FB2	42	115/208-230	Man.	8.6	1.00	13.25	S, US, 53
	1800	145T	LM24746	C/A	835	SSF4S1.5T1B6028TP1	43	115/208-230	Man.	7.6	1.15	13.87	S, MX, 53
	1200	184T	131526.00	✓	1834	C184C11FB2	69	115/208-230	None	11.0	1.00	15.46	S, MX

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Single Phase TEFC Motors

Capacitor Start – General Purpose

Single Phase - TEFC - Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over-load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥ Notes
2	3600	56H	110352.00	✓	860	C6C34FB21	41	115/208-230	None	10.0	1.00	13.31	S, US
	3600	56H	110402.00	✓	901	P6C34FB23	41	115/208-230	Man.	10.0	1.00	13.31	S, US
	3600	56H	LM24534	C/A	946	SRF2S2T1B6028TP1	40	115/208-230	Man.	9.0	1.15	13.32	S, MX, 53
	3600	145T	120036.00	✓	866	C145C34FB1	42	115/208-230	None	10.0	1.00	13.75	S, US
	3600	145T	LM24712	C/A	899	SRF2ST1B6028	54	115/208-230	None	9.0	1.15	13.37	S, MX, 53
	3600	145T	120395.00	✓	910	P145C34FB5	44	115/208-230	Man.	10.0	1.00	13.75	S, US
	1800	56HZ	113770.00	✓	1269	M6K17FB38	49	230	Man.	8.2	1.15	14.25	S, US, 3, 53
	1800	145T	121507.00	✓	1136	C145K17FB24	48	115/208-230	None	9.2	1.15	13.75	S, US, 53
	1800	145T	120867.00	✓	1145	P145K17FB22	48	115/208-230	Man.	9.2	1.00	13.75	S, US, 53
	1800	182T	131509.00	✓	996	C182C17FB11	65	115/208-230	None	12.4	1.00	14.46	S, MX
	1800	182T	LM24713	✓	1030	SS18F4S21B028	54	115/208-230	None	12.4	1.15	14.46	S, MX, 53
	1200	215T	140747.00	C/A	2720	C215K11FB3	118	115/208-230	None	11.2	1.15	18.71	S, MX, 53
3	3600	56H	116705.00	✓	939	P6K34FB31	53	208-230	Man.	14.0	1.00	13.81	S, US, 53
	3600	145T	120341.00	✓	934	C145K34FB3	46	230	None	13.0	1.00	14.25	S, US, 53
	3600	145T	LM24714	✓	968	SS14F2S3T1B6008	48	208-230	None	11.8	1.15	14.87	S, MX, 53
	3600	182T	131637.00	✓	1028	C182K34FB2	78	115/208-230	None	13.4	1.15	14.96	S, MX, 53
	1800	184T	131533.00	✓	1175	C184C17FB12	83	115/230	None	16.8	1.00	16.46	S, MX
	1800	184T	LM24716	C/A	1204	SS184F4S3T1C6028	99	115/208-230	None	16.8	1.00	16.46	S, MX
	1800	184T	131855.00	✓	1269	P184K17FB26	88	230	Man.	13.6	1.15	14.96	S, MX, 53
5	3600	184T	131549.00	✓	1422	C184K34FB6	93	230	None	19.8	1.15	16.96	S, MX, 53
	3600	184T	132042.00	✓	1586	P184K34FB9	103	230	Man.	19.8	1.15	16.97	S, MX, 53
	1800	184T	131538.00	✓	1429	C184K17FB15	95	230	None	23.0	1.00	17.46	S, MX, 53
	1800	184T	LM24718	✓	1437	SSF4S5T1B6008	98	208-230	None	21.7	1.00	17.46	S, MX, 53
	1800	184T	131856.00	✓	1475	P184K17FB25	95	230	Man.	21.0	1.00	15.96	S, MX, 53
7 1/2	3600	213T	140684.00	✓	1827	C213K34FB1	120	208-230	None	32.0	1.00	18.34	S, MX, 53
	3600	213T	LM24719	✓	1968	DDF2S7.51B6008	120	208-230	None	32.0	1.00	18.73	S, MX, 53
	1800	215T	140120.00	✓	1854	N215K17FB1	169	230	None	33.6	1.15	20.21	S, MX, 53
	1800	215T	LM24720	✓	1900	SS215F4S7.5T1B6008	133	208-230	None	30.0	1.00	21.09	S, MX, 53
10	3600	215T	140685.00	✓	2241	C215K34FB1	138	208-230	None	41.5	1.00	19.84	S, MX, 53
	3600	215T	LM24721	✓	2415	SSF2S10T1B6008	138	208-230	None	41.5	1.00	20.23	S, MX, 53
	1800	215T	140581.00	✓	2128	C215K17FB12	202	230	None	40.0	1.15	20.71	S, MX, 53
	1800	215T	LM24722	✓	2466	SSF4S10T1B66	155	230	None	41.5	1.00	21.09	S, MX, 53

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Tech Information

Single Phase
ODP Motors

Single Phase
TEFC Motors

Single Phase
C Face Motors

Three Phase
ODP Motors

Three Phase
TEFC Motors

Three Phase
C Face Motors

Inverter Duty
Motors

Severe Duty
Motors

Single Phase TEFC Motors

WATTSaver Premium Efficiency Motors

Features:

- High starting torque
- Capacitor start / capacitor run designs for higher efficiency
- Reduced running amps
- Energy saving designs



Single Phase - TEFC - Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	% F.L. Eff.	"C" Dim. (Inches)	♥ Notes
1/3	1800	56	113765.00	✓	540	M6K17FB33	27	115/208-230	Man.	1.7	1.15	76	10.81	S, US
1/2	1800	56	113766.00	✓	600	M6K17FB34	30	115/208-230	Man.	2.5	1.15	78	11.31	S, US
3/4	1800	56	113767.00	✓	708	M6K17FB35	35	115/208-230	Man.	3.2	1.15	82	11.81	S, US
1	1800	56	113768.00	✓	812	M6K17FB36	37	115/208-230	Man.	4.2	1.15	83	12.31	S, US
1 1/2	1800	56H	113769.00	✓	923	M6K17FB37	43	115/208-230	Man.	6.5	1.15	84	13.31	S, US
2	1800	56HZ	113770.00	✓	1269	M6K17FB38	49	230	Man.	8.2	1.15	85	14.25	S, US

Green items are Premium Efficient

♥ Note listing on inside back flap

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Single Phase TENV - General Purpose

Single Phase - TENV - Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥ Notes
1/6	3600	42	092011.00	✓	344	C42C34NB1	16	115/208-230	None	1.0	1.00	9.56	S, US
	1800	42	092012.00	C/A	364	C42C17NB1	21	115/208-230	None	1.8	1.00	10.56	S, US
1/4	3600	42	092013.00	C/A	369	C42C34NB2	21	115/208-230	None	1.7	1.00	10.56	S, US
	1800	48	100361.00	✓	353	C4C17NB4	17	115/208-230	None	2.2	1.15	9.43	S, MX
	1800	S56	102914.00	✓	357	C4C17NH9	24	115/208-230	None	2.3	1.15	9.81	S, MX
	1800	S56	102915.00	✓	403	A4C17NH10	23	115/208-230	Auto.	2.3	1.15	9.81	S, MX
1/3	3600	48	100362.00	✓	340	C4C34NB2	24	115/208-230	None	2.0	1.00	9.93	S, MX
	1800	S56	102912.00	✓	391	C4C17NH7	25	115/208-230	None	2.6	1.15	10.81	S, MX
	1800	S56	102913.00	C/A	448	M4C17NH8	25	115/208-230	Man.	2.6	1.15	10.31	S, MX
	1800	S56	102911.00	✓	444	A4C17NH6	24	115/208-230	Auto.	2.6	1.15	10.31	S, MX
1/2	3600	48	100366.00	✓	389	C4C34NB3	27	115/208-230	None	2.9	1.00	10.43	S, MX

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View On-line Technical Information



Single Phase TEFC Motors

Pressure Washer Pump Motors & Resilient Base Motors

General Specifications:

Motors specially suited for hot or cold pressure washer applications and other single phase installations requiring minimum starting and running amperages.



Mechanical Features:

- Double shielded ball bearings
- Dynamically balanced rotors

Electrical Features:

- Windings dipped in heavy duty varnish system
- Capacitor start / capacitor run designs to reduce amp draw
- Manual reset overload protection

Single Phase - TEFC - Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over-load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥ Notes
3/4	3600	56	110108.00	✓	459	M6C34FB7	26	115/208-230	Man.	5.0	1.15	11.31	S, US
	1800	56	110022.00	✓	623	M6C17FB7	29	115/208-230	Man.	5.4	1.15	11.31	S, US
1	3600	56	110142.00	✓	561	M6C34FB2	28	115/208-230	Man.	6.0	1.15	11.81	S, US
	1800	56	110023.00	✓	705	M6C17FB8	29	115/208-230	Man.	6.4	1.15	11.81	S, US
	1800	143T	120008.00	✓	705	M143C17FB2	31	115/208-230	Man.	6.4	1.15	12.75	S, US
1 1/2	3600	56	110109.00	✓	772	M6C34FB8	31	115/208-230	Man.	8.5	1.00	12.31	S, US
	1800	56H	113333.00	✓	798	M6K17FB32	38	115/208-230	Man.	8.6	1.00	12.81	S, US, 6, 53
	1800	145T	120009.00	✓	798	M145K17FB2	42	115/208-230	Man.	8.6	1.00	13.25	S, US, 53
2	3600	56H	110402.00	✓	901	P6C34FB23	41	115/208-230	Man.	10.0	1.00	13.31	S, US, 6, 53
	3600	145T	120395.00	✓	910	P145C34FB5	44	115/208-230	Man.	10.0	1.00	13.75	S, US
	1800	145T	120867.00	✓	1145	P145K17FB22	48	115/208-230	Man.	9.2	1.00	13.75	S, US, 53
3	3600	56H	116705.00	✓	939	P6K34FB31	53	230	Man.	14.0	1.00	13.81	S, US, 6, 53
	1800	184T	131855.00	✓	1269	P184K17FB26	88	230	Man.	13.7	1.15	16.86	S, MX, 53
5	3600	184T	132042.00	✓	1586	P184K34FB9	103	230	Man.	19.8	1.15	16.97	S, MX, 53
	1800	184T	131856.00	✓	1475	P184K17FB25	95	230	Man.	21.0	1.00	17.86	S, MX, 53

Specifications are subject to change without notice

♥ Note listing on inside back flap

Resilient Base Motors - Single Phase - General Purpose or Fan Duty

General Specifications:

- Industrial quality resilient base
- Moderate starting torque
- Belt driven fans or fan on shaft applications
- Capacitor start designs

Single Phase - TEFC • Resilient Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over-load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥ Notes
1/2	1800	56	110025.00	✓	545	A6C17FR1	26	115/208-230	Auto.	4.4	1.15	11.96	S, US
3/4	1800	56	110026.00	✓	653	A6C17FR2	28	115/208-230	Auto.	5.4	1.15	12.46	S, US
1	1800	56H	111915.00	✓	742	A6C17FR10	31	115/208-230	Auto.	6.4	1.15	12.96	S, US, 6

Specifications are subject to change without notice

♥ Note listing on inside back flap

View On-line Technical Information



Tech Information

Single Phase
ODP Motors

Single Phase
TEFC Motors

Single Phase
C Face Motors

Three Phase
ODP Motors

Three Phase
TEFC Motors

Three Phase
C Face Motors

Inverter Duty
Motors

Severe Duty
Motors

Single Phase C Face Motors

**General Purpose – Drip-Proof & Totally Enclosed -
115/208-230V – Rigid Mount and Round Body
1/6 HP – 10 HP – Frame sizes - 48 – 215T**



- Durable rolled steel construction
- NEMA Design B performance
- Meets or exceed NEMA service factors
- Double shielded ball bearings
- Continuous duty
- Thermally protected ratings
- UL recognized component listing and CSA certified
- 1-year warranty on general purpose motors

Applications:

Same applications as used on our general purpose ODP and enclosed single phase motors, only having NEMA C Face mount, which allows direct mounting to a pump or gear reducer or other direct coupled equipment.



Single Phase - C Face Motors

Drip-Proof - Capacitor Start

General Purpose - C Face Less Base

Single Phase - Drip-Proof - C Face Less Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over-load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥ Notes
1/4	1800	S56C	100023.00	✓	346	C4C17DC7	17	115/208-230	None	2.7	1.35	9.24	S, MX
	1800	S56C	101521.00	✓	375	A4C17DC79	17	115/208-230	Auto.	2.7	1.35	9.24	S, MX
1/3	3600	S56C	100354.00	✓	303	C4C34DC11	17	115/208-230	None	2.8	1.35	8.99	S, MX
	3600	S56C	100355.00	✓	319	A4C34DC12	17	115/208-230	Auto.	2.8	1.35	8.99	S, MX
1/2	1800	S56C	100024.00	✓	402	C4C17DC8	17	115/208-230	None	3.3	1.35	9.24	S, MX
	1800	S56C	LM24571	✓	417	SRD4S0.33TLCN1C6028	17	115/208-230	None	3.2	1.35	10.69	S, MX
	1800	S56C	100018.00	✓	434	M4C17DC2	18	115/208-230	Man.	3.3	1.35	9.24	S, MX
	1800	S56C	101522.00	✓	424	A4C17DC81	17	115/208-230	Auto.	3.3	1.35	9.24	S, MX
	3600	S56C	100356.00	✓	319	C4C34DC13	19	115/208-230	None	3.4	1.25	9.99	S, MX
	3600	S56C	100054.00	✓	344	A4C34DC1	18	115/208-230	Auto.	3.4	1.25	9.99	S, MX
3/4	1800	S56C	100025.00	✓	455	C4C17DC9	19	115/208-230	None	4.4	1.25	9.99	S, MX
	1800	S56C	100019.00	✓	491	M4C17DC3	21	115/208-230	Man.	4.4	1.25	9.99	S, MX
	1800	S56C	100020.00	✓	480	A4C17DC4	20	115/208-230	Auto.	4.4	1.25	9.99	S, MX
	1200	56C	110381.00	✓	828	C6C11DC2	32	115/208-230	None	5.0	1.25	11.38	S, US
	3600	S56C	100357.00	✓	411	C4C34DC14	24	115/208-230	None	4.9	1.25	10.49	S, MX
	3600	S56C	100055.00	✓	450	A4C34DC2	24	115/208-230	Auto.	4.9	1.25	10.49	S, MX
	1800	S56C	100026.00	✓	550	C4C17DC10	24	115/208-230	None	5.4	1.25	10.99	S, MX
	1800	S56C	LM24505	✓	576	SRD4S0.75TLCN1B6028	25	115/208-230	None	5.5	1.25	11.72	S, MX, 53
	1800	S56C	100021.00	✓	592	M4C17DC5	24	115/208-230	Man.	5.4	1.25	10.99	S, MX
	1800	S56C	101523.00	✓	587	A4C17DC80	26	115/208-230	Auto.	5.4	1.25	10.99	S, MX
1	1200	56C	110382.00	✓	921	C6C11DC3	46	115/208-230	None	6.4	1.15	12.88	S, US
	3600	56C	110384.00	✓	439	C6C34DC24	28	115/208-230	None	6.0	1.25	10.88	S, US
	3600	56C	113337.00	C/A	491	A6C34DC53	28	115/208-230	Auto.	6.0	1.25	10.84	S, US
	1800	56C	110220.00	✓	584	C6C17DC3	30	115/208-230	None	6.4	1.15	10.88	S, US
	1800	56C	110036.00	✓	615	M6C17DC1	27	115/208-230	Man.	6.4	1.15	10.88	S, US
	1800	143TC	121002.00	✓	631	C143C17DC2	31	115/208-230	None	6.4	1.15	11.28	S, US

▼ LM Numbers are Lincoln Models

♥ Note listing on inside back flap

C/A - Check Availability

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Specifications are subject to change without notice

View On-line Technical Information



Tech Information

Single Phase
ODP Motors

Single Phase
TEFC Motors

Single Phase
C Face Motors

Three Phase
ODP Motors

Three Phase
TEFC Motors

Three Phase
C Face Motors

Inverter Duty
Motors

Severe Duty
Motors

Single Phase - C Face Motors

Drip-Proof - Capacitor Start

General Purpose - C Face Less Base

Single Phase - Drip-Proof - C Face Less Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over-load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥ Notes
1 1/2	3600	56C	110387.00	✓	605	C6C34DC26	28	115/208-230	None	8.2	1.15	10.84	S, US
	3600	56C	113336.00	✓	641	A6C34DC52	28	115/208-230	Auto.	8.2	1.15	10.84	S, US
	1800	56C	110388.00	✓	705	C6K17DC4	38	115/208-230	None	8.6	1.15	11.84	S, US, 53
	1800	56C	110037.00	✓	740	P6K17DC1	39	115/208-230	Man.	8.6	1.15	11.84	S, US, 53
2	3600	56C	110390.00	✓	793	C6C34DC28	37	115/208-230	None	10.0	1.15	11.84	S, US
	3600	56C	113335.00	✓	828	U6C34DC51	36	115/208-230	Auto.	10.0	1.15	11.84	S, US
	3600	145TC	121184.00	C/A	807	C145C34DC4	37	115/208-230	None	10.0	1.15	12.28	S, US
	1800	56C	LM24507	✓	831	SRD4S2TLCN1B6028	48	115/208-230	None	10.5	1.15	13.44	S, MX, 53
	1800	145TC	120073.00	✓	800	C145K17DC4	49	115/208-230	None	10.5	1.15	13.28	S, US, 53
3	3600	56C	113334.00	✓	843	P6C34DC50	36	230	Auto.	15.0	1.00	11.84	S, US
	1800	184TC	131544.00	✓	931	C184C17DC5	73	115/208-230	None	16.9	1.15	14.19	S, MX
5	3600	184TC	131777.00	✓	1,246	C184K34DC2	70	208-230	None	22.2	1.15	14.69	S, MX, 53
	1800	184TC	131539.00	✓	1,296	C184K17DC6	81	230	None	21.0	1.15	14.69	S, MX, 53

▼ LM Numbers are Lincoln Models ♥ Note listing on inside back flap

C/A - Check Availability

Specifications are subject to change without notice



View On-line Technical Information



Single Phase - C Face Motors

Drip-Proof - Capacitor Start

Tech Information

Single Phase
ODP Motors

Single Phase
TEFC Motors

Single Phase
C Face Motors

Three Phase
ODP Motors

Three Phase
TEFC Motors

Three Phase
C Face Motors

Inverter Duty
Motors

Severe Duty
Motors

Single Phase - Drip-Proof - C Face With Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
1/3	1800	S56C	103023.00	✓	412	C4C17DK32	18	115/208-230	None	3.3	1.35	9.24	S, MX
	1800	S56C	103083.00	✓	412	M4C17DK37	18	115/208-230	Man.	3.3	1.35	9.24	S, MX
1/2	3600	S56C	103024.00	✓	374	C4C34DK10	20	115/208-230	None	3.4	1.25	9.99	S, MX
	1800	S56C	101651.00	✓	498	C4C17DK18	21	115/208-230	None	4.4	1.25	9.99	S, MX
	1800	S56C	103084.00	✓	498	M4C17DK38	21	115/208-230	Man.	4.4	1.25	9.99	S, MX
3/4	3600	S56C	103025.00	✓	439	C4C34DK11	24	115/208-230	None	4.9	1.25	10.49	S, MX
	1800	S56C	101650.00	✓	576	C4C17DK19	27	115/208-230	None	5.4	1.25	10.99	S, MX
	1800	S56C	103086.00	✓	576	M4C17DK39	27	115/208-230	Man.	5.4	1.25	10.99	S, MX
1	3600	56C	116769.00	✓	465	C6C34DK6	28	115/208-230	None	6.0	1.25	10.84	S, US
	1800	56C	113930.00	✓	659	C6C17DK11	34	115/208-230	None	6.4	1.15	10.88	S, US
1 1/2	3600	56C	116770.00	C/A	625	C6K34DK19	35	115/208-230	None	6.2	1.15	11.34	S, US, 53
	3600	56C	114214.00	✓	636	M6K34DK8	35	115/208-230	Man.	6.2	1.15	11.34	S, US, 53
	1800	56HC	113932.00	✓	711	C6K17DK16	39	115/208-230	None	8.6	1.15	11.84	S, US, 53
	1800	56HC	113700.00	✓	840	M6K17DK15	38	115/208-230	Man.	7.2	1.15	11.84	S, US, 53
2	3600	56C	116771.00	✓	795	C6K34DK20	35	115/208-230	None	8.6	1.15	11.34	S, US, 53
	3600	56C	114215.00	✓	807	P6K34DK9	35	115/208-230	Man.	8.6	1.15	11.34	S, US, 53
	1800	56HC	113281.00	✓	870	P6K17DK12	45	115/208-230	Man.	8.6	1.15	12.88	S, US, 53
	1800	145TC	120992.00	✓	760	C145K17DK7	45	115/230	None	10.5	1.15	13.28	S, US, 53
3	3600	56HC	116707.00	✓	881	M6C34DK5	41	230	Man.	15.0	1.00	12.38	S, US
	3600	182TC	132083.00	C/A	992	C182K34DK2	74	115/208-230	None	14.0	1.15	14.18	S, MX, 53
	1800	184TC	131629.00	✓	1,058	P184C17DK3	70	115/208-230	Man.	16.9	1.15	14.19	S, MX
	1800	184TC	131853.00	✓	1,057	C184K17DK18	87	208-230	Man.	15.4	1.15	15.96	S, MX, 53
5	3600	56HC	116709.00	✓	902	P6K34DK18	46	230	Man.	20.8	1.00	13.34	S, US, 53
	3600	184TC	131781.00	✓	1,251	C184K34DK4	70	208-230	None	22.2	1.15	14.19	S, MX, 53
	1800	184TC	131630.00	✓	1,300	M184K17DK13	77	208-230	Man.	21.0	1.15	14.69	S, MX, 53
7 1/2	3600	184TC	132043.00	✓	1,297	C184K34DK8	112	208-230	T-stats	31.0	1.15	16.69	S, MX, 53
	1800	215TC	140806.00	✓	1,336	C215K17DB5	120	208-230	None	36.0	1.15	17.26	S, MX, 53

▼ LM Numbers are Lincoln Models

♥ Note listing on inside back flap

C/A - Check Availability

Specifications are subject to change without notice

View On-line Technical Information



Single Phase - C Face Motors

Totally Enclosed - Capacitor Start - General Purpose

Single Phase - Totally Enclosed - C Face Less Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
1/6	1800	48CZ	102661.00	✓	353	C4C17FC25	14	115/208-230	None	2.0	1.15	9.19	S, MX, 25
1/4	1800	48CZ	101765.00	✓	403	C4C17FC10	18	115/208-230	None	2.7	1.15	9.19	S, MX, 25
	1800	S56C	102868.00	✓	401	C4C17NC26	22	115/208-230	None	2.3	1.15	9.80	S, MX, 12
	1800	S56C	LM24733	✓	384	SRN4S0.25TLCN1C6028	18	115/208-230	None	2.1	1.00	9.94	S, MX
	1800	S56C	102866.00	✓	401	C4C17FC34	18	115/208-230	None	2.7	1.15	9.44	S, MX
1/3	3600	S56C	102870.00	✓	344	C4C34FC13	20	115/208-230	None	2.8	1.15	9.44	S, MX
	3600	S56C	102873.00	✓	344	C4C34NC15	24	115/208-230	None	1.9	1.00	9.30	S, MX
	3600	S56C	LM24734	✓	382	SRN2S0.33TLCN1C6028	20	115/208-230	None	2.2	1.15	10.19	S, MX
	1800	48CZ	102663.00	✓	417	C4C17FC26	19	115/208-230	None	3.3	1.15	9.69	S, MX, 25
	1800	S56C	101766.00	✓	434	C4C17FC9	22	115/208-230	None	3.3	1.15	9.94	S, MX
	1800	S56C	102867.00	✓	431	C4C17NC25	23	115/208-230	None	2.6	1.15	10.30	S, MX, 12
	1800	S56C	LM24598	✓	417	SRF4S0.33TLCN1C6028	19	115/208-230	None	3.9	1.15	12.32	S, MX
	1800	S56C	102869.00	✓	454	M4C17NC27	25	115/208-230	Man.	2.6	1.15	10.30	S, MX, 12
	1200	56C	LM24735	C/A	637	SRF6S0.33TLCN1C6028	28	115/208-230	None	3.9	1.15	12.32	S, MX
1/2	3600	S56C	102864.00	✓	387	C4C34FC12	22	115/208-230	None	3.5	1.15	9.94	S, MX
	3600	56C	LM24736	✓	434	SRF2S0.5TLCN1C6028	23	115/208-230	None	4.2	1.15	11.82	S, MX
	3600	S56C	102872.00	✓	412	M4C34FC14	25	115/208-230	Man.	3.5	1.15	9.94	S, MX
	1800	48CZ	102665.00	C/A	486	C4C17FC27	22	115/208-230	None	4.0	1.00	10.44	S, MX, 25
	1800	S56C	102862.00	✓	498	C4C17FC32	21	115/208-230	None	4.0	1.15	10.69	S, MX
	1800	56C	LM24599	✓	495	SRF4S0.5TLCN1C6028	24	115/208-230	None	4.4	1.15	11.19	S, MX
	1800	S56C	102865.00	✓	527	M4C17FC33	22	115/208-230	Man.	4.0	1.15	10.69	S, MX
	1800	S56C	102871.00	✓	520	A4C17FC35	24	115/208-230	Auto.	4.0	1.15	10.69	S, MX
	1200	56C	110411.00	✓	877	C6C11FC1	37	115/208-230	None	4.9	1.00	12.81	S, US
3/4	3600	56C	110413.00	✓	454	C6C34FC8	26	115/208-230	None	5.0	1.15	11.31	S, US
	3600	56C	LM24738	✓	454	SRF2S0.75TLCN1C5028	30	115/208-230	None	5.3	1.15	12.32	S, MX
	3600	56C	110412.00	✓	472	M6C34FC7	28	115/208-230	Man.	5.0	1.15	11.31	S, US
	1800	56C	110057.00	✓	592	C6C17FC6	25	115/208-230	None	5.4	1.15	11.31	S, US
	1800	56C	LM24613	✓	528	SRF4S0.75TLCN1C6028	30	115/208-230	None	5.5	1.15	12.32	S, MX
	1800	56C	110040.00	✓	624	M6C17FC2	26	115/208-230	Man.	5.4	1.15	11.31	S, US
	1800	56C	110308.00	✓	615	A6C17FC8	28	115/208-230	Auto.	5.4	1.15	11.31	S, US
	1200	56C	110414.00	✓	988	C6K11FC2	42	115/208-230	None	5.3	1.00	13.31	S, US, 53
	1200	56C	LM24739	C/A	719	SRF60.75TLCN1B6028	41	115/208-230	None	5.7	1.15	13.82	S, MX, 53

▼ LM Numbers are Lincoln Models

♥ Note listing on inside back flap

C/A - Check Availability

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Specifications are subject to change without notice



View On-line Technical Information



Single Phase - C Face Motors

Totally Enclosed - Capacitor Start - General Purpose

Single Phase - Totally Enclosed - C Face Less Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
1	3600	56C	110416.00	✓	532	C6C34FC10	28	115/208-230	None	6.0	1.15	11.81	S, US
	3600	56C	LM24740	✓	538	SRF2S1TLCN1C6028	31	115/208-230	None	6.2	1.15	12.32	S, MX
	3600	56C	110415.00	✓	583	M6C34FC9	28	115/208-230	Man.	6.0	1.15	11.81	S, US
	1800	56C	110058.00	✓	682	C6C17FC7	33	115/208-230	None	6.4	1.15	11.81	S, US
	1800	56C	LM24614	✓	564	SRF4S1TLCN1C6028	32	115/208-230	None	6.7	1.15	12.82	S, MX
	1800	56C	110041.00	✓	712	M6C17FC3	29	115/208-230	Man.	6.4	1.15	11.81	S, US
	1800	143TC	121001.00	✓	773	C143C17FC2	32	115/208-230	None	6.4	1.15	12.25	S, US
1 1/2	3600	56C	110419.00	✓	684	C6C34FC12	31	115/208-230	None	8.5	1.00	12.31	S, US
	3600	56C	LM24535	✓	590	SRF2S1.5TLCN1B6028	35	115/208-230	None	7.1	1.15	12.82	S, MX, 53
	3600	56C	110418.00	✓	717	M6C34FC11	31	115/208-230	Man.	8.5	1.00	12.31	S, US
	3600	143TC	120101.00	✓	773	C143C34FC1	36	115/208-230	None	8.5	1.00	12.75	S, US
	1800	56C	110420.00	✓	768	C6K17FC2	37	115/208-230	None	8.6	1.00	12.81	S, US, 53
	1800	56C	LM24622	✓	598	SRF4S1.5TLCN1B6028	41	115/208-230	None	7.6	1.15	13.82	S, MX, 53
	1800	56C	110042.00	✓	800	M6K17FC1	40	115/208-230	Man.	8.6	1.00	12.81	S, US
	1800	145TC	120017.00	✓	874	C145K17FC3	40	115/208-230	None	8.6	1.00	13.75	S, US, 53
2	3600	56C	110422.00	✓	870	C6C34FC14	40	115/208-230	None	10.0	1.00	13.31	S, US
	3600	56C	LM24530	✓	673	SRF2S2TLCNB6038	40	115/208-230	None	9.0	1.15	13.32	S, MX, 53
	3600	56C	110421.00	✓	901	P6C34FC13	41	115/208-230	Man.	10.0	1.00	13.31	S, US
	3600	145TC	120102.00	✓	902	C145C34FC2	43	115/208-230	None	10.0	1.00	13.75	S, US
	1800	56C	112136.00	✓	1,028	C6K17FC9	41	115/230	None	9.2	1.00	13.31	S, US, 53
	1800	145TC	120060.00	✓	1,052	P145K17FC2	45	115/230	Man.	10.0	1.00	14.25	S, US, 53
	1800	182TC	131516.00	C/A	1,370	C182C17FC3	64	115/208-230	None	12.4	1.00	14.47	S, MX
3	3600	145TC	120824.00	✓	1,010	P145K34FC6	56	230	Man.	13.0	1.00	14.25	S, US, 53
	1800	184TC	131545.00	✓	1,614	C184C17FC4	82	115/208-230	None	16.8	1.00	16.47	S, MX
5	3600	184TC	131778.00	✓	1,620	C184K34FC2	81	208-230	None	19.8	1.15	16.97	S, MX, 53
	1800	184TC	131540.00	✓	1,681	C184K17FC6	104	230	None	23.0	1.00	17.47	S, MX, 53

▼ LM Numbers are Lincoln Models

♥ Note listing on inside back flap

C/A - Check Availability

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Specifications are subject to change without notice

View On-line Technical Information



Tech Information

Single Phase
ODP Motors

Single Phase
TEFC Motors

Single Phase
C Face Motors

Three Phase
ODP Motors

Three Phase
TEFC Motors

Three Phase
C Face Motors

Inverter Duty
Motors

Severe Duty
Motors

Single Phase C Face Motors

Totally Enclosed - Capacitor Start - General Purpose

Single Phase - Totally Enclosed - C Face With Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥ Notes
1/4	1800	S56C	102916.00	✓	410	C4C17FK4	22	115/208-230	None	2.7	1.15	9.69	S, MX
	1800	S56C	LM24723	✓	430	SRF4S0.25TLC6028	17	115/208-230	None	2.1	1.15	10.19	S, MX
1/3	3600	S56C	102929.00	✓	407	C4C34FK16	22	115/208-230	None	2.8	1.15	9.69	S, MX
	1800	S56C	102930.00	✓	435	C4C17FK6	24	115/208-230	None	3.1	1.15	10.44	S, MX
	1800	S56C	LM24600	✓	455	SRF4S0.33TLC1C6028	23	115/208-230	None	3.0	1.15	10.44	S, MX
	1800	S56C	103082.00	✓	435	M4C17FK7	24	115/208-230	Man.	3.1	1.15	10.31	S, MX
1/2	1800	S56C	102910.00	✓	435	C4C17NK2	25	115/208-230	None	2.6	1.15	10.31	S, MX
	3600	S56C	102903.00	✓	408	C4C34FK17	25	115/208-230	None	3.5	1.15	9.94	S, MX
	3600	56C	LM24725	✓	431	SRF2S0.5TLC1C6028	23	115/208-230	None	4.2	1.15	11.82	S, MX
	1800	S56C	102907.00	✓	523	C4C17FK5	22	115/208-230	None	4.0	1.15	10.69	S, MX
	1800	S56C	LM24628	✓	552	SRF4S0.5TLC6028	24	115/208-230	None	4.0	1.15	11.19	S, MX
	1800	S56C	103085.00	✓	523	M4C17FK8	22	115/208-230	Man.	4.0	1.15	10.69	S, MX
3/4	3600	56C	112135.00	✓	465	C6C34FK36	26	115/208-230	None	5.0	1.15	11.31	S, US
	3600	56C	LM24726	✓	485	SRF2S0.75TLC1C6028	30	115/208-230	None	5.3	1.15	12.32	S, MX
	1800	56C	110905.00	✓	631	C6C17FK4	26	115/208-230	None	5.4	1.15	11.31	S, US
	1800	56C	LM24615	✓	662	SRF2S0.75TLC1C6028	30	115/208-230	None	5.5	1.15	12.32	S, MX
	1800	56C	116922.00	✓	631	M6C17FK86	26	115/208-230	Man.	5.4	1.15	11.31	S, US
	1800	56C	110180.00	✓	536	C6C34FK1	28	115/208-230	None	6.0	1.15	11.81	S, US
1	3600	56C	LM24727	✓	558	SRF2S1TLC1C6028	32	115/208-230	None	6.2	1.15	12.32	S, MX
	3600	56C	115877.00	✓	536	M6C34FK78	28	115/208-230	Man.	6.0	1.15	11.81	S, US
	1800	56C	110908.00	✓	715	C6C17FK5	30	115/208-230	None	6.4	1.15	11.81	S, US
	1800	56C	LM24616	✓	748	SRF4S1TLC6028	35	115/208-230	None	6.7	1.15	12.82	S, MX
	1800	56C	115879.00	✓	715	M6C17FK80	32	115/208-230	Man.	6.4	1.15	11.81	S, US
	1800	143TC	121680.00	✓	715	C143C17FK1	32	115/208-230	None	6.4	1.15	12.25	S, US
	1 1/2	3600	56C	✓	694	C6C34FK19	34	115/208-230	None	8.5	1.00	12.31	S, US
	3600	56HC	LM24539	✓	725	SRF2S1.5TLC1B6028	35	115/208-230	None	7.1	1.15	12.82	S, MX
Three Phase TEFC Motors	3600	56C	115024.00	✓	728	M6K34FK16	35	115/208-230	Man.	6.2	1.15	12.31	S, US
	1800	56HC	110910.00	✓	849	C6K17FK2	39	115/208-230	None	8.6	1.00	12.81	S, US
	1800	56HC	LM24728	✓	884	SRF2S1.5TLC1B6028	41	115/208-230	None	7.6	1.15	13.82	S, MX
	1800	56HC	116703.00	✓	854	M6K17FK50	42	115/208-230	Man.	8.6	1.15	12.81	S, US
	1800	145TC	121681.00	✓	849	C145K17FK13	40	115/208-230	None	8.6	1.00	13.75	S, US
	1800	145TC	121681.00	✓	849	C145K17FK13	40	115/208-230	None	8.6	1.00	13.75	S, US

▼ LM Numbers are Lincoln Models

♥ Note listing on inside back flap

C/A - Check Availability

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Specifications are subject to change without notice



View On-line Technical Information

Single Phase C Face Motors

Totally Enclosed - Capacitor Start - General Purpose

Single Phase - Totally Enclosed - C Face With Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
2	3600	56HC	113931.00	✓	909	C6C34FK52	46	115/208-230	None	10.0	1.00	13.31	S, US
	3600	56HC	LM24729	✓	952	SRF2S2TLC1B6028	40	115/208-230	None	9.0	1.15	13.32	S, MX, 53
	3600	56HC	114995.00	✓	867	P6K34FK15	42	115/208-230	Man.	9.2	1.15	13.31	S, US, 53
	3600	56HC	115878.00	C/A	909	P6C34FK79	43	115/208-230	Man.	10.0	1.00	13.31	S, US
	3600	145TC	121008.00	✓	909	C145C34FK2	43	115/208-230	None	10.0	1.00	13.75	S, US
	1800	145TC	120274.00	✓	1,145	C145K17FK2	49	115/230	None	9.2	1.00	14.25	S, US, 53
	1800	145TC	LM24731	C/A	1,199	SSF4S2TLC1B6028	52	115/230	None	9.5	1.15	14.87	S, MX, 53
	1800	145TC	121465.00	✓	1,145	P145K17FK10	44	115/208-230	Man.	9.2	1.00	13.75	S, US, 53
3	3600	145TC	121825.00	✓	960	C145K34FK9	47	230	None	13.0	1.00	14.43	S, US, 53
	3600	56HC	115048.00	✓	948	P6K34FK17	53	208-230	Man.	14.0	1.00	13.31	S, US, 53
	3600	145TC	121060.00	✓	1,019	P145K34FK4	51	230	Man.	13.0	1.00	14.25	S, US, 53
	1800	184TC	131631.00	✓	1,618	P184C17FK9	84	115/208-230	Man.	16.8	1.00	16.47	S, MX
	1800	184TC	131857.00	✓	1,618	P14K17FK14	104	230	Man.	13.7	1.15	17.61	S, MX, 53
5	3600	184TC	131632.00	✓	1,626	P184K34FK2	103	230	Man.	19.8	1.15	16.97	S, MX, 53
	1800	184TC	131633.00	✓	1,694	P184K17FK11	86	230	Man.	23.0	1.00	16.97	S, MX, 53
7 1/2	3600	213TC	140694.00	✓	1,908	C213K34FK1	120	208-230	None	32.0	1.00	19.07	S, MX, 53
	1800	215TC	140807.00	✓	1,949	C215K17FK6	171	208-230	None	33.6	1.15	20.21	S, MX, 53
10	3600	215TC	140695.00	✓	2,277	C215K34FK1	138	208-230	None	41.5	1.00	20.57	S, MX, 53
	1800	215TC	140678.00	✓	2,205	C215K17FK4	152	230	None	40.0	1.15	20.71	S, MX, 53

▼ LM Numbers are Lincoln Models

♥ Note listing on inside back flap

C/A - Check Availability

Specifications are subject to change without notice

View On-line Technical Information



Tech Information

Single Phase
ODP Motors

Single Phase
TEFC Motors

Single Phase
C Face Motors

Three Phase
ODP Motors

Three Phase
TEFC Motors

Three Phase
C Face Motors

Inverter Duty
Motors

Severe Duty
Motors

Single Phase - C Face Motors

Pressure Washer Pump Motors

Application Information:

Motors specially suited for hot or cold pressure washer applications and other single phase installations requiring minimum starting and running amperages.



Mechanical Features:

- Double shielded ball bearings
- Dynamically balanced rotors

Electrical Features:

- Windings dipped in heavy duty varnish system
- Capacitor start / capacitor run designs to reduce amp draw
- Manual reset overload protection
- High service factor

Single Phase - TEFC - C-Face With Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
1/3	1800	56C	116485.00	C/A	637	M6C17FK81	29	115/208-230	Man.	3.2	1.15	10.81	S, US, 57
1/2	1800	56C	116486.00	✓	731	M6C17FK80	23	115/208-230	Man.	4.4	1.15	10.81	S, US, 57
3/4	1800	56C	116487.00	✓	850	M6C17FK79	30	115/208-230	Man.	5.4	1.15	11.31	S, US, 57
1	3600	56C	115877.00	✓	536	M6C34FK78	28	115/208-230	Man.	6.0	1.15	11.81	S, US
	1800	56C	115879.00	✓	715	M6C17FK80	32	115/208-230	Man.	6.4	1.15	11.81	S, US
1 1/2	3600	56C	115024.00	✓	728	M6K34FK16	35	115/208-230	Man.	6.2	1.15	12.31	S, US, 53
	1800	56HC	116703.00	✓	854	M6K17FK50	39	115/208-230	Man.	8.6	1.15	12.81	S, US, 53
2	3600	56HC	114995.00	✓	867	P6K34FK15	42	115/208-230	Man.	9.2	1.15	13.31	S, US, 53
	1800	145TC	121465.00	✓	1,145	P145K17FK10	44	115/208-230	Man.	9.2	1.00	13.75	S, US, 53
3	3600	56HC	115048.00	✓	948	P6K34FK17	53	115/208-230	Man.	14.0	1.00	13.81	S, US, 53
	1800	184TC	131857.00	✓	1,618	P14K17FK14	104	230	Man.	13.7	1.15	17.61	S, MX, 53
5	3600	184TC	131632.00	✓	1,626	P184K34FK2	106	230	Man.	19.8	1.15	16.97	S, MX, 53
	1800	184TC	131633.00	✓	1,694	P184K17FK11	107	230	Man.	23.0	1.00	16.97	S, MX, 53

C/A - Check Availability

♥ Note listing on inside back flap

Specifications are subject to change without notice

Single Phase - Drip-Proof - C-Face With Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
1 1/2	3600	56C	114214.00	✓	636	M6K34DK8	35	115/208-230	Man.	6.2	1.15	11.34	S, US, 53
	1800	56HC	113700.00	✓	840	M6K17DK15	38	115/208-230	Man.	7.2	1.15	11.84	S, US, 6, 53
2	3600	56C	114215.00	✓	807	P6K34DK9	45	115/208-230	Man.	8.6	1.15	11.34	S, US, 53
	1800	56HC	113281.00	✓	870	P6K17DK12	45	115/208-230	Man.	8.6	1.15	12.88	S, US, 6, 53
3	3600	56HC	116707.00	✓	881	M6C34DK5	41	230	Man.	15.0	1.00	12.38	S, US, 6, 53
	1800	184TC	131853.00	✓	1,057	C184K17DK18	87	208-230	Man.	15.4	1.15	15.96	S, MX, 53
5	3600	56HC	116709.00	✓	902	P6K34DK18	46	230	Man.	20.8	1.00	13.54	S, US, 6, 53
	1800	184TC	131630.00	✓	1,300	M184K17DK13	77	208-230	Man.	21.0	1.15	14.69	S, MX, 53

Specifications are subject to change without notice

♥ Note listing on inside back flap



View On-line Technical Information

Single Phase C Face Motors Unit Handling Motors



Applications Include:

Unit and baggage handling, conveyors, packaging equipment, machine tools, elevators and door openers where a conduit box at 12:00 position is needed due to mounting size restrictions

Features include:

- Low profile conduit box at the 12:00 position
- Base includes both 56H and 143-5T mounting holes and slots

Single Phase - TEFC - C Face With Base

HP	RPM	Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥ Notes
1/2	1800	56C	117701.00	✓	523	C6C17FK92	22	115/208-230	4.4	1.2	12.48	S, US
3/4	1800	56C	117702.00	✓	569	C6C17FK94	26	115/208-230	5.4	1.2	12.98	S, US
1	1800	56C	117703.00	✓	617	C6C17FK93	30	115/208-230	6.4	1.2	12.98	S, US

Specifications are subject to change without notice

♥ Note listing on inside back flap

Single Phase - TEFC - Rigid C Face Less Base

HP	RPM	Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥ Notes
1/2	1800	56C	117704.00	✓	502	C6C17FC175	21	115/208-230	4.4	1.2	10.98	S, US
3/4	1800	56C	117705.00	✓	549	C6C17FC176	25	115/208-230	5.4	1.2	11.48	S, US
1	1800	56C	117706.00	✓	590	C6C17FC177	29	115/208-230	6.4	1.2	11.48	S, US

Specifications are subject to change without notice

♥ Note listing on inside back flap

View On-line Technical Information



Tech Information

Single Phase
ODP Motors

Single Phase
TEFC Motors

Single Phase
C Face Motors

Three Phase
ODP Motors

Three Phase
TEFC Motors

Three Phase
C Face Motors

Inverter Duty
Motors

Severe Duty
Motors

Three Phase - Cast Iron - Three Phase Motors

150 & 170 Series - Rigid Base - General Purpose

**NEMA
Premium**

For reliable performance in heavy-duty industrial applications, nothing beats the LEESON Heavyweights. With their cast iron construction and 1.15 Service Factor, they are ideal for "tough to handle" applications.

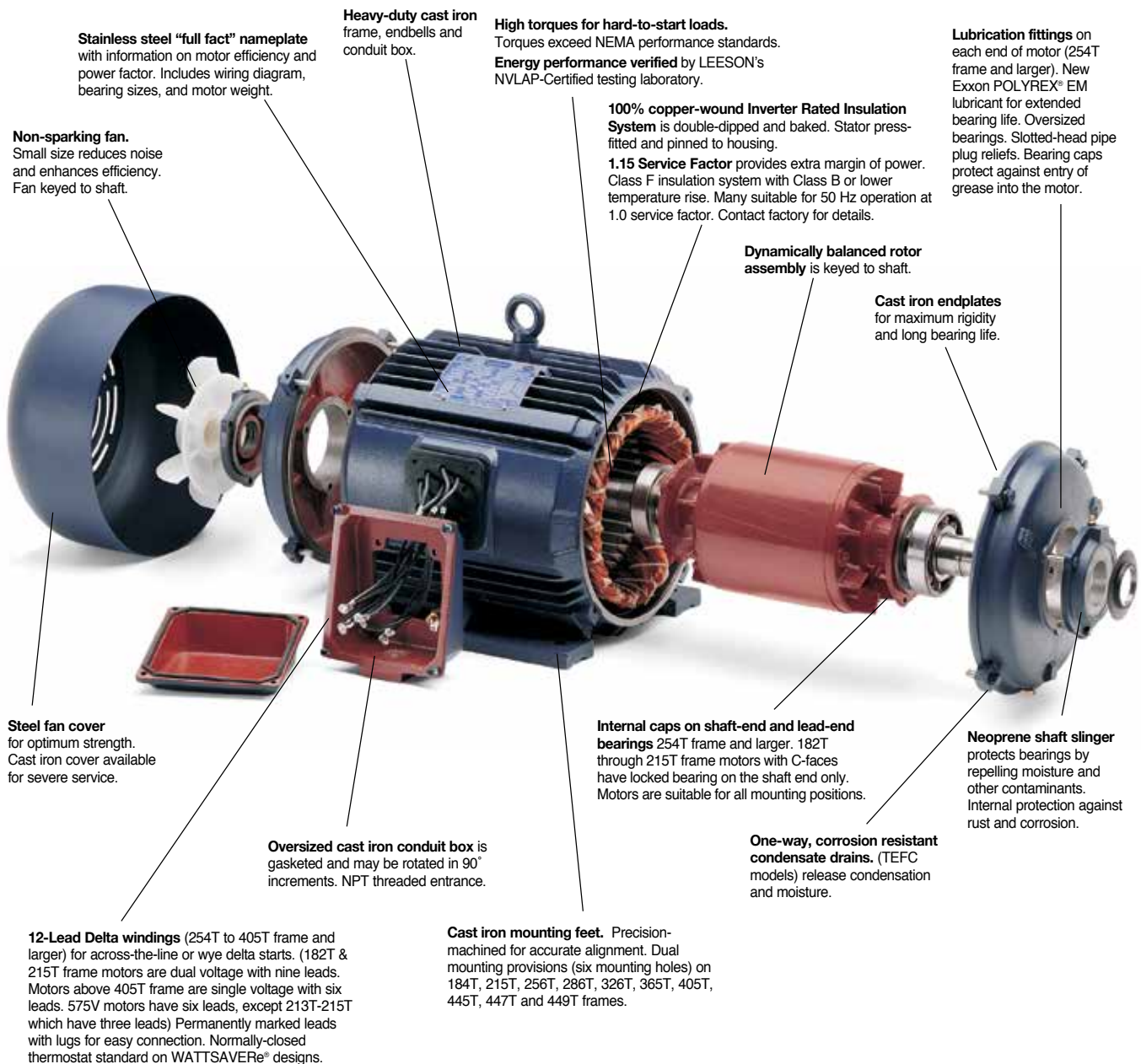
But that's only part of the story. LEESON 150 and 170-series cast iron motors are extremely versatile and can be field converted in minutes to a number of different configurations, including:

- Severe Duty TEFC (using cast iron fan guard kit)
- F2 mounting 180 frame or larger (by re-assembly)
- C face with rigid base (from stock or using C face kit)
- D flange with base (using D flange kit)

UL recognized and CSA certified.

LEESON's Inverter Rated Insulation System (IRIS™)

provides superior motor protection against voltage spikes induced by variable frequency drives. This *total insulation system* protects better than spike-resistant magnet wire alone. Specially formed phase insulation, cushioned and sleeved connections (from the leads all the way into the turns), and deep-penetrating, non-hygroscopic, high temperature varnish are just a few features contributing to the extra protection. All this plus second generation, spike-resistant magnet wire. The IRIS™ *total insulation system* is standard at no extra cost in all LEESON stock NEMA three-phase motors, 1 HP and larger. The LEESON Ultimate E, "199" Series motors have our standard insulation system.


LEESON

Three Phase - Wattsaver® Premium Efficiency Motors

General Purpose

WATTSaver^e

**NEMA
Premium**

The WATTSaver^e line of premium efficiency motors is LEESON's unique IRIS™ voltage-spike-resistant insulation system is standard at no extra cost. WATTSaver^e motors carry a three-year warranty in general purpose and inverter fed applications. These motors meet or exceed most utility rebate programs and the EPA's federally mandated efficiency levels. The efficiency ratings have been verified to IEEE

112B test standards by LEESON's NVLAP-Certified lab.

Cast iron 170 series motors can be field modified for forced ventilation service to extend the inverter-fed operating range and an encoder package is stocked for closed-loop vector inverter systems. These motors can be converted to IEEE841 compliant using the Custom PDQ Program. Contact LEESON.



UL and CSA Recognition

LEESON's Inverter Rated Insulation System (IRIS™) provides superior protection against voltage spikes induced by variable frequency drives. This protects better than spike-resistant magnet wire alone. Specially formed phase insulation, cushioned and sleeved connections (from the leads all the way into the turns), and deep-penetrating, non-

hygroscopic, high temperature varnish are just a few features contributing to extra protection. All this plus second generation spike-resistant magnet wire. The IRIS™ is standard at no extra cost in all LEESON stock NEMA three-phase motors, 1 HP and larger. The LEESON Ultimate E, "199" Series motors have our standard insulation system.



Tech Information

Single Phase
ODP Motors

Single Phase
TEFC Motors

Single Phase
C Face Motors

Three Phase
ODP Motors

Three Phase
TEFC Motors

Three Phase
C Face Motors

Inverter Duty
Motors

Severe Duty
Motors

Three Phase ODP Motors

General Purpose – Drip-Proof –

208-230/460V & 460V Rigid Mount – ¼ HP – 500 HP



- Standard, EPE and Premium efficient ratings
- Inverter-rated
- Nameplated for 50 Hz operation
- 1-year warranty on Standard efficient motors
- 2-year warranty on EPE efficient motors
- 3-year warranty on Premium efficient motors
- Class B insulation systems, Class F 140 frame and higher
- Shielded ball bearings for direct coupled applications
Contact your local sales office for belted load applications
- Rolled steel and cast iron designs
- UL recognized and CSA certified



Applications:

For use where water and dust exposure is minimal. Ideally suited for use on pumps, compressors, blowers, fans and other standard industrial applications.





Three Phase ODP Motors

General Purpose - Standard, EAct and Premium Efficient Motors

Three Phase - Drip-Proof - Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	Inverter speed range	♥ Notes
1/4	1800	S56	100027.00	✓	310	C4T17DH1	16	208-230/460	1.4	58.0	1.00	9.20	S, MX	S, MX
	1800	48	LM24866	✓	322	SPD4S0.25T61	19	230/460	1.3	62.0	1.35	9.30	S, US	S, US
1/3	3600	48	101447.00	✓	319	C4T34DB3	14	208-230/460	1.4	68.0	1.35	9.00	S, US	S, US
	1800	48	100446.00	✓	333	C4T17DB2	17	208-230/460	1.6	64.3	1.35	9.10	S, MX	S, MX
	1800	S56	100028.00	✓	327	C4T17DH2	18	208-230/460	1.6	64.3	1.35	9.50	S, MX	S, MX
	1800	S56	LM24152	✓	346	SRD4S0.33T61	15	230/460	1.6	67.0	1.35	11.00	S, MX	S, MX
	1800	S56	103017.00	✓	437	C4T17DH39	23	208-230/460	1.3	77.0	1.25	10.20	S, MX	S, MX
	1200	56	110425.00	✓	529	C6T11DB3	23	208-230/460	1.6	65.0	1.15	9.90	S, US	S, MX
1/2	3600	S56	101448.00	✓	338	C4T34DH7	17	208-230/460	1.8	69.0	1.25	9.40	S, US	S, US
	3600	56	LM24869	C/A	351	SRD2S0.5T61	22	230/460	2.2	66.0	1.25	10.40	S, US	S, MX
	1800	S56	100029.00	✓	373	C4T17DH3	20	208-230/460	2.0	68.0	1.25	10.00	S, MX	S, US
	1800	56	LM24098	✓	399	SRD4S0.5T61	17	230/460	2.2	70.0	1.25	10.50	S, MX	S, US
	1800	S56	103018.00	✓	469	C4T17DH40	26	208-230/460	1.8	77.0	1.25	10.70	S, MX	S, MX
	1200	56	110027.00	✓	582	C6T11DB1	22	208-230/460	2.8	66.0	1.15	10.40	S, US	S, MX
3/4	3600	S56	101449.00	✓	401	C4T34DH8	20	208-230/460	2.4	79.0	1.25	9.90	S, US	S, MX
	3600	56	LM24870	✓	414	SRD2S0.75T61	21	230/460	3.2	74.0	1.25	10.40	S, US	S, US
	1800	S56	100030.00	✓	417	C4T17DH4	24	208-230/460	2.8	75.0	1.25	10.50	S, MX	S, MX
	1800	S56	LM24099	✓	442	SRD4S0.75T61	20	230/460	2.8	75.5	1.25	11.00	S, MX	S, US
	1800	56	116738.00	✓	475	C6T17DB95	30	208-230/460	2.4	81.5	1.25	10.90	S, US	S, US
	1200	56	110028.00	✓	629	C6T11DB2	17	208-230/460	3.4	75.5	1.15	10.90	S, US	S, MX
1	3600	56	110426.00	✓	459	C6T34DB1	22	208-230/460	3.2	77.0	1.25	9.80	S, US	S, MX
	3600	56	LM24155	✓	480	SRD2S1T61	24	230/460	3.7	74.0	1.25	10.40	S, US	S, US
	3600	56	116128.00	✓	580	C6T34DB30	24	208-230/460	2.8	80.0	1.25	10.20	S, US	S, US
	1800	56	110029.00	✓	470	C6T17DB1	22	208-230/460	4.2	78.5	1.15	10.40	S, US	S, US
	1800	S56	LM24111	✓	459	SRD4S1T61	22	230/460	3.4	76.5	1.15	10.50	S, MX	S, US
	1800	56HZ	115827.00	✓	449	C6T17DB77	24	208-230/460	4.2	78.5	1.15	11.10	S,US,5	S, US
	1800	56	116752.00	✓	652	C6T17DB92	36	208-230/460	3.2	85.5	1.25	11.70	S, US	S, US
	1800	143T	121003.00	✓	652	C143T17DB10	36	208-230/460	3.2	85.5	1.25	12.10	S, US	S, US
	1800	143T	LM24871	✓	538	SSD4B1T61	35	230/460	3.2	85.5	1.15	12.00	S, MX	S, MX
	1200	145T	121517.00	✓	759	C145T11DB7	41	208-230/460	3.8	82.5	1.25	12.60	S, US	S, US, 5

Green items are Premium Efficient

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Three Phase ODP Motors

General Purpose - Standard, EPA and Premium Efficient Motors

Three Phase - Drip-Proof - Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
1 1/2	3600	56	110429.00	✓	513	C6T34DB2	29	208-230/460	4.2	81.5	1.15	10.80	S, US
	3600	56	116753.00	C/A	646	C6T34DB31	36	208-230/460	4.0	84.0	1.25	11.80	S, US
	3600	143T	121514.00	✓	646	C143T34DB4	36	208-230/460	4.0	84.0	1.25	12.30	S, US
	1800	56	110430.00	✓	542	C6T17DB7	27	208-230/460	5.6	78.5	1.15	10.90	S, US
	1800	56H	LM24117	✓	488	SRD4S1.5T61	28	230/460	4.8	80.0	1.15	10.90	S, MX, 6
	1800	56	111309.00	C/A	599	A6T17DB26	33	208-230/460	5.6	78.5	1.15	10.90	S, US
	1800	56HZ	115825.00	✓	480	C6T17DB79	34	208-230/460	5.6	78.5	1.15	11.10	S, US, 5
	1800	56	116754.00	✓	681	C6T17DB91	35	208-230/460	4.8	86.5	1.25	12.20	S, US
	1800	145T	121004.00	✓	681	C145T17DB32	35	208-230/460	4.8	86.5	1.25	12.60	S, US
	1800	145T	LM24875	✓	563	SSD4B1.5T61	45	230/460	5.0	85.5	1.15	13.00	S, MX
	1200	182T	131971.00	✓	894	C182T11DB9	82	208-230/460	5.6	86.5	1.15	14.70	S, MX
	1200	182T	199685.00	✓	824	C182T11DB10	75	230/460	4.4	86.5	1.15	13.72	S, CN
2	3600	56	113292.00	✓	604	C6T34DB16	33	208-230/460	5.6	82.5	1.15	11.30	S, US
	3600	56	116755.00	✓	760	C6T34DB32	—	208-230/460	4.8	85.5	1.25	12.20	S, US
	3600	56H	LM24877	✓	629	SRD2S2T61	25	230/460	6.2	80.0	1.15	10.40	S, US, 6
	3600	145T	121515.00	✓	760	C145T34DB15	43	208-230/460	4.8	85.5	1.25	12.60	S, US
	1800	56H	113025.00	✓	567	C6T17DB40	32	208-230/460	6.2	78.5	1.15	11.40	S, MX, 6
	1800	56H	LM24106	✓	526	SRD4S2T61	36	230/460	6.8	81.5	1.15	11.90	S, MX, 47
	1800	56HZ	115826.00	✓	516	C6T17DB78	33	208-230/460	6.2	78.5	1.15	11.60	S, US, 5
	1800	56H	111310.00	C/A	691	A6T17DB27	36	208-230/460	6.2	78.7	1.15	11.40	S, US, 6, 33
	1800	56H	116756.00	✓	771	C6T17DB96	37	208-230/460	5.8	86.5	1.25	13.20	S, US, 6
	1800	145T	121005.00	✓	771	C145T17DB33	37	208-230/460	5.8	86.5	1.25	13.60	S, US
	1800	145T	LM24169	✓	623	SSD4BT61	48	230/460	6.0	86.5	1.25	13.00	S, MX
	1200	184T	131972.00	✓	908	C184T11DB9	88	208-230/460	7.2	87.5	1.15	15.20	S, MX
3	1200	184T	199686.00	✓	838	C184T11DB10	99	230/460	5.8	87.5	1.15	14.72	S, CN
	3600	56H	113293.00	✓	623	C6T34DB17	38	208-230/460	7.6	84.0	1.15	11.80	S, US, 6
	3600	145T	121516.00	✓	770	C145T34DB16	45	208-230/460	7.2	86.5	1.25	12.60	S, US
	3600	145T	LM32731	✓	701	SSD2B3T61	33	230/460	7.2	85.5	1.25	12.70	S, US
	1800	56HZ	116595.00	✓	615	C6T17DB90	44	208-230/460	8.6	82.5	1.15	13.10	S, US, 5
	1800	182T	131519.00	✓	789	C182T17DB37	75	208-230/460	7.9	89.5	1.25	13.70	S, MX
	1800	182T	LM24222	✓	812	SSD4B3T61	56	230/460	8.0	89.5	1.25	13.20	S, MX
	1800	182T	199687.00	✓	729	C182T17DB62	76	230/460	7.6	90.2	1.15	13.72	S, CN
	1200	213T	171574.60	✓	1,179	C213T11DB2	156	208-230/460	10.0	88.5	1.25	16.40	C, CN
	1200	213T	199688.00	✓	1,151	C213T11DB12	156	230/460	12.4	87.5	1.15	17.52	S, CN

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Three Phase ODP Motors

General Purpose - Standard, EPAct and Premium Efficient Motors

Three Phase - Drip-Proof - Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥ Notes
5	3600	184T	131986.00	✓	844	C184T34DB11	86	208-230/460	12.0	86.5	1.15	15.20	S, MX
	3600	182T	199689.00	✓	768	C182T34DB8	126	230/460	12.4	87.5	1.15	13.72	S, CN
	1800	184T	131520.00	✓	889	C184T17DB44	86	208-230/460	12.8	89.5	1.25	15.20	S, MX
	1800	184T	LM24202	✓	910	SSD4BT61	91	230/460	12.6	89.5	1.25	15.20	S, MX
	1800	184T	199690.00	✓	820	C184T17DB84	86	230/460	12.8	89.5	1.15	14.72	S, CN
	1200	215T	171575.60	✓	1,491	C215T11DB6	188	208-230/460	15.0	90.2	1.25	16.40	C, CN
7 1/2	1200	215T	199691.00	✓	1,338	C215T11DB10	281	230/460	14.0	89.5	1.15	17.52	S, CN
	3600	184T	131988.00	✓	1,221	C184T34DB12	106	208-230/460	17.6	88.5	1.15	16.20	S, MX
	3600	184T	199692.00	✓	944	C184T34DB17	143	230/460	18.0	88.5	1.15	14.72	S, CN
	1800	213T	140470.00	✓	1,115	C213T17DB2	133	208-230/460	20.6	91.0	1.25	16.30	S, MX
	1800	213T	LM24194	✓	1,282	SSD4B7.5T61	121	230/460	19.2	91.0	1.25	18.50	S, US
	1800	213T	170142.60	✓	1,183	C213T17DB44	163	208-230/460	19.8	91.0	1.25	16.40	C, CN
10	1800	213T	199693.00	✓	1,061	C213T17DB49	160	230/460	19.0	91.7	1.15	17.52	S, CN
	1200	254T	170145.60	✓	1,867	C254T11DB43	291	208-230/460	22.4	91.7	1.25	20.94	C, CN
	1200	254T	199694.00	✓	1,835	C254T11DB46	281	230/460	21.0	90.2	1.15	22.64	C, CN
	3600	213T	140753.00	✓	1,286	C213T34DB4	160	208-230/460	23.4	89.5	1.15	17.30	S, MX
	3600	213T	LM32740	✓	1,359	SSD2B10T61	138	230/460	24.0	89.5	1.25	18.00	S, US
	3600	213T	170143.60	✓	1,368	C213T34DB45	153	208-230/460	23.6	91.0	1.15	16.40	C, CN
15	3600	213T	199695.00	✓	1,211	C213T34DB48	150	230/460	23.0	89.5	1.15	17.52	S, CN
	1800	215T	140472.00	✓	1,317	C215T17DB15	144	208-230/460	26.8	91.7	1.25	17.30	S, MX
	1800	215T	LM24193	✓	1,432	SSD810T61	155	230/460	25.0	91.7	1.25	18.50	S, US
	1800	215T	170144.60	✓	1,395	C215T17DB49	203	208-230/460	25.6	91.7	1.15	17.90	C, CN
	1800	215T	199696.00	✓	1,252	C215T17DB58	220	230/460	25.6	91.7	1.15	17.52	S, CN
	1200	256T	170146.60	✓	2,326	C256T11DB45	305	208-230/460	29.6	91.7	1.25	22.60	C, CN
20	1200	256T	199697.00	✓	2,087	C256T11DB48	305	230/460	27.6	91.7	1.15	24.22	C, CN
	3600	215T	140754.00	✓	1,709	C215T34DB4	170	208-230/460	35.0	91.0	1.15	18.60	S, MX
	3600	215T	LM32743	✓	1,816	SSD2B15T61	135	230/460	35.0	90.2	1.25	18.50	S, US
	3600	215T	170064.60	✓	1,838	C215T34DB3	178	208-230/460	34.6	91.0	1.25	17.90	C, CN
	3600	215T	199698.00	✓	1,775	C215T34DB6	184	230/460	35.0	91.0	1.15	17.52	S, CN
	1800	254T	170065.60	✓	1,858	C254T17DB9	289	208-230/460	37.0	93.0	1.15	20.90	C, CN
25	1800	254T	LM24190	✓	2,136	CCD4B15T61	300	230/460	37.0	93.0	1.25	22.90	C, US
	1800	254T	199699.00	✓	1,858	C254T17DB46	310	230/460	36.5	93.0	1.15	22.64	C, CN
	1200	284T	170067.60	✓	3,063	C284T11DB7	445	208-230/460	39.4	92.4	1.25	23.50	S, CN
	1200	284T	199700.00	✓	2,748	C284T11DB9	414	230/460	40.0	91.7	1.15	25.71	C, CN
	3600	254T	170032.60	✓	2,308	C254T34DB5	285	208-230/460	46.0	93.0	1.15	20.90	C, CN
	3600	254T	199701.00	✓	2,044	C254T34DB6	300	230/460	45.0	91.7	1.15	22.64	C, CN
30	1800	256T	170006.60	✓	2,269	C256T17DB5	334	208-230/460	51.0	93.0	1.15	22.60	C, CN
	1800	256T	LM24199	✓	2,464	CCD4B20T61	350	230/460	48.0	93.0	1.25	24.40	C, US
	1800	286T	LM32746	✓	3,375	SSD4B20T61	233	230/460	48.0	93.0	1.25	25.20	S, US
	1800	256T	199702.00	✓	2,250	C256T17DB12	360	230/460	48.0	93.0	1.15	24.22	C, CN
	1200	286T	170000.60	✓	3,782	C286T11DB1	467	208-230/460	55.0	92.4	1.15	25.00	C, CN
	1200	286T	199703.00	✓	3,348	C286T11DB7	457	230/460	54.0	92.4	1.15	27.09	C, CN

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Three Phase ODP Motors

General Purpose - Standard,
EPA and Premium Efficient Motors

Three Phase - Drip-Proof - Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥ Notes
25	3600	256T	170034.60	✓	2,865	C256T34DB5	325	208-230/460	52.4	93.0	1.15	22.60	C, CN
	3600	256T	199704.00	✓	2,604	C256T34DB10	315	230/460	55.0	91.7	1.15	24.22	C, CN
	1800	284T	170009.60	✓	2,865	C284T17DB7	414	208-230/460	59.6	93.6	1.15	23.50	C, CN
	1800	284T	LM29576	✓	3,188	CCD4B25T61Y	435	230/460	64.0	93.6	1.25	24.90	C, US
	1800	284TS	LM32748	C/A	3,188	CCD4B25TS61Y	435	230/460	64.0	93.6	1.25	23.60	C, US
	1800	284T	199705.00	✓	2,844	C284T17DB11	424	230/460	62.0	93.6	1.15	25.71	C, CN
30	1200	324T	170002.60	✓	4,504	C324T11DB5	670	208-230/460	67.0	93.0	1.15	26.02	C, CN
	1200	324T	199706.00	✓	3,988	C324T11DB7	695	230/460	68.0	93.0	1.15	28.55	C, CN
	3600	284TS	170036.60	✓	3,326	C284T34DB4	406	208-230/460	67.0	94.1	1.15	22.20	C, CN
	3600	284T	LM32687	C/A	6,177	SD2B30T61Y	348	230/460	67.0	91.7	1.25	23.00	S, US
	3600	284TS	199707.00	✓	3,220	C284T34DB9	396	230/460	66.5	91.7	1.15	24.41	C, CN
	1800	286T	170013.60	✓	3,105	C286T17DB8	490	208-230/460	71.0	94.1	1.15	25.00	C, CN
36	1800	286T	LM29577	✓	3,695	CCD4B30T61Y	400	230/460	74.0	94.1	1.25	26.80	C, US
	1800	286TS	LM32749	C/A	3,695	CCD4B39TS61Y	400	230/460	73.0	94.1	1.25	25.40	C, US
	1800	286T	199708.00	✓	3,055	C286T17DB14	483	230/460	74.0	94.1	1.15	27.09	C, CN
	1200	326T	170004.60	✓	4,697	C326T11DB1	760	208-230/460	78.0	93.6	1.15	27.50	C, CN
	1200	326T	199709.00	✓	4,675	C326T11DB7	760	230/460	81.0	93.6	1.15	29.73	C, CN
	3600	286TS	170038.60	✓	4,377	C286T34DB3	451	208-230/460	91.2	93.6	1.15	23.60	C, CN
40	3600	286TS	LM13969	C/A	7,435	SD2B40TS61Y	389	230/460	90.0	93.6	1.25	23.30	S, US
	3600	286T	LM32750	✓	7,435	SD2B40T61Y	389	230/460	90.0	92.4	1.25	24.50	S, US
	3600	286TS	199710.00	✓	3,876	C286T34DB6	452	230/460	89.0	92.4	1.15	25.79	C, CN
	1800	324T	170017.60	✓	4,091	C324T17DB8	591	208-230/460	96.0	94.1	1.15	26.00	C, CN
	1800	324T	LM13811	✓	7,886	SD4B40T61Y	469	230/460	104.0	94.1	1.25	25.80	S, US
	1800	324TS	LM32751	C/A	7,886	SD4B40TS61Y	469	230/460	103.0	94.1	1.25	24.30	S, US
48	1800	324T	199711.00	✓	3,672	C324T17DB12	581	230/460	95.0	94.5	1.15	28.55	C, CN
	1200	364T	170147.60	✓	6,698	C364T11DB1	892	208-230/460	103.0	94.1	1.15	28.00	C, CN
	1200	364T	199712.00	✓	6,000	C364T11DB8	875	230/460	99.0	94.1	1.15	31.69	C, CN
	50	3600	324TS	✓	5,339	C324T34DB3	558	208-230/460	112.0	94.1	1.25	24.50	C, CN
	3600	324T	LM32752	C/A	7,489	SD2B50T61Y	469	230/460	122.0	93.0	1.25	25.80	S, US
	3600	324TS	199713.00	✓	4,725	C324T34DB6	548	230/460	113.0	93.0	1.15	27.05	C, CN
54	1800	326T	170021.60	✓	4,942	C326T17DB5	660	208-230/460	118.0	94.5	1.15	27.50	C, CN
	1800	326T	LM13813	✓	7,983	SD4B50T61Y	522	230/460	131.0	95.0	1.25	27.30	S, US
	1800	326TS	LM32674	✓	7,983	SD4B50T61Y	522	230/460	131.0	94.5	1.25	25.80	S, US
	1800	326T	199714.00	✓	4,377	C326T17DB9	710	230/460	118.0	94.5	1.15	29.73	C, CN
	1200	365T	199715.00	✓	6,907	C365T11DB6	930	230/460	122.0	94.1	1.15	33.27	C, CN
	1200	365T	170148.60	✓	7,661	C365T11DB1	1039	208-230/460	128.0	94.5	1.15	33.60	C, CN
60	3600	326TS	170042.60	✓	6,385	C326T34DB5	600	208-230/460	136.0	94.1	1.25	26.00	C, CN
	3600	326TS	LM13814	✓	7,273	SD2B60TS61Y	522	230/460	136.0	94.5	1.25	25.80	S, US
	3600	326T	LM32682	C/A	7,273	SDB60T61Y	522	230/460	136.0	93.6	1.25	27.30	S, US
	3600	326TS	199716.00	✓	5,653	C326T34DB8	590	230/460	134.0	93.6	1.15	28.23	C, CN
	1800	364T	170025.60	✓	5,441	C364T17DB7	1114	208-230/460	139.0	94.1	1.15	31.50	C, CN
	1800	364T	LM14813	✓	10,804	SD4B60T61Y	712	230/460	140.0	95.0	1.25	28.40	S, US
75	1800	364TS	LM32753	C/A	10,804	SD4B60TS61Y	712	230/460	140.0	95.0	1.25	26.30	S, US
	1800	364T	199717.00	✓	5,204	C364T17DB8	1005	230/460	139.0	95.0	1.15	31.69	C, CN
	1200	404T	170149.60	✓	8,480	C404T11DB5	1031	208-230/460	159.0	94.5	1.25	32.80	C, CN
	1200	404T	199718.00	✓	8,313	C404T11DB7	975	230/460	144.0	94.5	1.15	37.20	C, CN

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Three Phase ODP Motors

General Purpose - Standard, EPAct and Premium Efficient Motors

Three Phase - Drip-Proof - Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥ Notes
75	3600	364TS	170044.60	✓	8,436	C364T34DB3	1045	208-230/460	170.0	94.1	1.15	26.90	C, CN
	3600	364TS	LM14812	✓	11,745	SD2B75TS61Y	712	230/460	164.0	94.5	1.25	26.90	S, US
	3600	364T	LM32754	C/A	11,745	SD2B75T61Y	712	230/460	164.0	93.6	1.25	28.40	S, US
	3600	364TS	199719.00	✓	7,469	C364T34DB5	937	230/460	166.0	93.6	1.15	29.57	C, CN
	1800	365T	170029.60	✓	6,709	C365T17DB5	1138	208-230/460	174.0	94.5	1.15	31.20	C, CN
	1800	365T	LM14815	✓	10,997	SD4B75T61Y	763	230/460	176.0	95.0	1.25	28.40	S, US
	1800	365TS	LM32755	✓	10,997	SD4B75TS61Y	763	230/460	180.0	95.0	1.25	27.30	S, US
	1800	365T	199720.00	✓	6,060	C365T17DB8	1030	230/460	174.0	95.0	1.15	33.27	C, CN
	1200	405T	170150.60	✓	10,051	C405T11DB6	1275	208-230/460	199.0	94.5	1.25	34.30	C, CN
	1200	405T	199721.00	✓	9,998	C405T11DB8	1100	230/460	180.0	94.5	1.15	38.78	C, CN
100	3600	365TS	170151.60	✓	9,537	C365T34DB4	1125	208-230/460	226.0	94.5	1.15	29.10	C, CN
	3600	365TS	LM14814	✓	10,621	SD2B100TS61Y	763	230/460	220.0	95.0	1.25	27.30	S, US
	3600	365T	LM32756	C/A	10,621	SD2B100T61Y	763	230/460	220.0	93.6	1.25	29.40	S, US
	3600	365TS	199722.00	✓	9,141	C365T34DB7	1016	230/460	222.0	93.6	1.15	31.14	C, CN
	1800	404T	170152.60	✓	9,180	C404T17DB5	1183	208-230/460	225.0	95.4	1.25	32.80	C, CN
	1800	405T	LM13943	✓	12,111	SD4B100T61Y	882	230/460	244.0	95.4	1.25	31.80	S, US
	1800	404TS	LM32757	✓	12,111	SD4B100TS61Y	882	230/460	260.0	95.4	1.25	29.20	S, US
	1800	404T	199723.00	✓	8,464	C404T17DB8	1025	230/460	226.0	95.4	1.15	37.20	C, CN
	1200	444T	170269.60	✓	11,871	C444T11DB4	2604	460	118.0*	95.4	1.25	40.00	C, CN
	1200	444T	199724.00	✓	11,363	C444T11DB6	1675	230/460	232.0	95.0	1.15	44.57	C, CN
125	3600	404TS	170154.60	✓	11,024	C404T34DB1	1585	208-230/460	284.0	94.5	1.25	29.80	C, CN
	3600	404TS	LM13942	C/A	12,899	SD2B125TS61Y	882	230/460	276.0	95.0	1.25	29.20	S, US
	3600	404T	LM32758	C/A	12,899	SD2B125T61Y	882	230/460	276.0	94.1	1.25	32.00	S, US
	3600	404TS	199725.00	✓	10,935	C404T34DB5	973	460	138.0*	94.1	1.15	35.45	C, CN
	1800	405T	170155.60	✓	11,617	C405T17DB6	1292	230/460	280.0	95.4	1.25	34.30	C, CN
	1800	405TS	LM32759	✓	12,250	SD4B125TS61Y	958	230/460	306.0	95.4	1.25	30.70	S, US
	1800	405T	199726.00	✓	10,286	C405T17DB8	1150	460	140.0*	95.4	1.15	38.78	C, CN
	1200	445T	170259.60	✓	15,431	C445T11DB4	2200	460	148.0*	95.8	1.25	40.00	C, CN
	1200	445T	199727.00	✓	13,069	C445T11DB8	1799	460	145.0*	95.0	1.15	44.57	C, CN
	150	3600	405TS	✓	13,601	C405T34DB2	1173	460	169.0*	94.5	1.15	31.30	C, CN
150	3600	405TS	199728.00	✓	12,796	C405T34DB4	1075	460	164.0*	94.1	1.15	35.45	C, CN
	1800	444T	171522.60	✓	13,719	C444T17DB2	2150	460	164.0*	95.8	1.15	40.00	C, CN
	1800	444T	LM13817	✓	15,695	SD4B150T64Y	1277	460	170.0*	95.8	1.25	37.40	S, US
	1800	444TS	LM32760	✓	15,695	SD4B150TS64Y	277	460	170.0*	95.8	1.25	33.50	S, US
	1800	444T	199729.00	✓	13,675	C444T17DB7	1275	460	168.0*	95.8	1.15	44.57	C, CN
	1200	445T	171576.60	✓	16,555	C445T11DB5	2153	460	178.0*	95.8	1.25	40.00	C, CN
	1200	447T	199730.00	✓	16,495	C447T11DB3	2050	460	172.0*	95.4	1.15	49.69	C, CN
	200	3600	444TS	✓	15,413	C444T35DB1	1765	460	216.0*	95.4	1.25	36.30	C, CN
	3600	444TS	199731.00	✓	14,850	C444T34DB2	1277	460	215.0*	95.0	1.15	40.83	C, CN
	1800	445T	171523.60	✓	15,822	C445T17DB14	2037	460	220.0*	95.8	1.25	40.00	C, CN
200	1800	445T	LM13820	✓	19,303	SD4B200T64Y	1438	460	233.0*	96.2	1.25	39.40	S, US
	1800	445T	199732.00	✓	15,289	C445T17DB18	1885	460	220.0*	95.8	1.15	44.57	C, CN
	1800	445TS	LM32761	✓	19,303	SD4B200TS64Y	1449	460	233.0*	96.2	1.25	35.50	S, US
	1200	447T	171577.60	✓	21,762	C447T11DB1	2750	460	239.0*	96.2	1.25	48.50	C, CN
	1200	449T	LM16239	✓	21,642	SDB200T64Y	2112	460	255.0*	95.8	1.15	47.90	S, US
	1200	449T	199733.00	✓	21,695	C449T11DB1	2200	460	228.0*	95.4	1.15	49.96	C, CN

Green items are Premium Efficient

♥ Note listing on inside back flap

* F.L. Amps at 460V

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▼ LM Numbers are Lincoln Models

C/A - Check Availability

Specifications are subject to change without notice

View On-line Technical Information



Tech Information

Single Phase
ODP Motors

Single Phase
TEFC Motors

Single Phase
C Face Motors

Three Phase
ODP Motors

Three Phase
TEFC Motors

Three Phase
C Face Motors

Inverter Duty
Motors

Severe Duty
Motors

Three Phase ODP Motors

General Purpose - Standard,
EPA and Premium Efficient Motors

Three Phase - Drip-Proof - Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 460 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥ Notes
250	3600	445TS	LM13761	✓	22,534	SD2P250TS64Y	1438	460	266.0	94.5	1.15	35.50	S, US
	1800	445T	G151524.60	✓	17,759	C445T17DB10	1940	460	284.0	95.4	1.15	40.00	C, CN
	1800	445T	LM13762	✓	20,784	SD4P250T64Y	1438	460	293.0	95.4	1.15	39.40	S, US
300	3600	447TS	LM13825	C/A	33,194	SD2B300TS64Y	1745	460	316.0	96.2	1.15	39.00	S, US
	3600	447TS	LM13764	C/A	26,287	SD2P300TS64Y	1745	460	316.0	95.4	1.15	39.00	S, US
	1800	447T	LM13826	✓	27,976	SD4B300T64Y	1745	460	348.0	95.8	1.15	42.90	S, US
	1800	447T	LM13765	✓	21,943	SD4P300T64Y	1745	460	349.0	95.4	1.15	42.90	S, US
	1800	447TS	LM22758	C/A	21,943	SD4P300TS64Y	1745	460	349.0	95.4	1.15	39.00	S, US
	1800	445T	G151525.60	✓	20,373	C445T17DB11	2345	460	329.0	95.4	1.15	40.00	C, CN
	1800	447TS	LM16237	C/A	39,453	SD2B350TS64Y	2112	460	368.0	95.8	1.15	44.00	S, US
350	3600	447TS	LM13767	C/A	29,755	SD2P350TS64Y	1745	460	369.0	95.4	1.15	39.00	S, US
	3600	449TS	LM16226	C/A	31,246	SD2P350TS64Y	2112	460	370.0	95.0	1.15	44.00	S, US
	1800	447TS	LM15159	C/A	25,251	SD4P350T64Y	1745	460	406.0	95.4	1.00	39.00	S, US
	1800	447T	G151518.60	✓	22,485	N445T17DB9	2041	460	392.0	94.1	1.15	40.00	C, CN
	1800	449TS	LM13831	C/A	43,432	SD2B400TS64Y	2112	460	430.0	95.8	1.15	44.00	S, US
400	3600	449TS	LM13770	C/A	33,660	SD2P400TS64Y	2112	460	420.0	95.4	1.15	44.00	S, US
	1800	449T	LM13832	C/A	42,147	SD4B400T64Y	2112	460	445.0	96.2	1.15	47.90	S, US
	1800	449T	LM13771	C/A	31,546	SD4P400T64Y	2112	460	460.0	95.8	1.15	47.90	S, US
	1800	449TS	LM22759	C/A	31,546	SD4P400TS64Y	2112	460	460.0	95.8	1.15	44.00	S, US
	1800	449TS	LM22759	C/A	31,546	SD4P400TS64Y	2112	460	460.0	95.8	1.15	44.00	S, US

Green items are Premium Efficient

♥ Note listing on inside back flap

▼ LM Numbers are Lincoln Models

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View On-line Technical Information



Three Phase ODP Motors Compressor Duty

General Specifications:

Motors designed for air compressor, pump, fan and blower duty applications which require high breakdown torque and rugged mechanical construction.

Mechanical Features:

- Double shielded ball bearings
- Designed for belted loads
- Class F Insulation



Three Phase - Drip-Proof - Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥ Notes
1	1800	143T	121003.00	✓	652	C143T17DB10	36	208-230/460	3.2	85.5	1.25	12.10	S, US
	1800	143T	LM24871	✓	538	SSD4B1T6	35	208-230/460	3.2	85.5	1.25	12.00	S, MX
1 1/2	1800	145T	121004.00	✓	681	C145T17DB32	35	208-230/460	4.8	86.5	1.25	12.60	S, US
	1800	145T	LM24875	✓	563	SSD4B1.5T6	45	208-230/460	4.4	86.5	1.25	13.00	S, MX
2	1800	145T	121005.00	✓	771	C145T17DB33	37	208-230/460	5.8	86.5	1.25	13.60	S, US
	1800	145T	LM24169	✓	623	SSD4B2T6	48	208-230/460	6.0	86.5	1.25	11.50	S, MX
3	1800	182T	131519.00	✓	789	C182T17DB37	75	208-230/460	7.8	89.5	1.25	13.70	S, MX
	1800	182T	LM24222	✓	812	SSD4B3T61	75	208-230/460	8.0	89.5	1.25	13.20	S, MX
5	1800	184T	131520.00	✓	889	C184T17DB44	86	208-230/460	12.8	89.5	1.25	14.70	S, MX
	1800	184T	LM24202	✓	910	SSD4B5T61	91	208-230/460	12.6	89.5	1.25	14.20	S, MX
7 1/2	1800	213T	140470.00	✓	1,115	C213T17DB2	133	208-230/460	20.6	91.0	1.25	16.30	S, MX
	1800	213T	LM24194	✓	1,282	SSD4B7.5T6	125	208-230/460	19.2	91.0	1.25	18.50	S, US
10	1800	215T	140472.00	✓	1,317	C215T17DB15	144	208-230/460	26.8	91.7	1.25	17.30	S, MX
	1800	215T	LM24193	✓	1,432	SSD4B10T6	155	208-230/460	25.0	91.7	1.25	18.50	S, US
20	1800	256T	170006.60	✓	2,269	C256T17DB5	324	208-230/460	51.0	93.0	1.25	22.60	C, CN
	1800	256T	LM24199	✓	2,464	CCD4B20T6	350	208-230/460	48.0	93.0	1.25	24.40	C, US

Green items are Premium Efficient

♥ Note listing on inside back flap

▼ LM Numbers are Lincoln Models

Specifications are subject to change without notice

View On-line Technical Information



Tech Information

Single Phase
ODP Motors

Single Phase
TEFC Motors

Single Phase
C Face Motors

Three Phase
ODP Motors

Three Phase
TEFC Motors

Three Phase
C Face Motors

Inverter Duty
Motors

Severe Duty
Motors

Three Phase ODP Motors

Resilient Base Motors - General Purpose or Fan & Blower Service - Moderate Starting Torque

General Specifications:

- Industrial quality resilient base
- Moderate starting torque
- Double shielded ball bearings
- Belt-Driven or fan-on-shaft applications



Drip-Proof - Three Phase - Resilient Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230	Service Factor	% F.L. Eff.	"C" Dim. (Inches)	♥ Notes
1/3	3600	S56	101639.00	✓	372	A4T34DJ4	17	208-230/460	Auto.	1.7	1.35	61.00	10.31	S, US, 33
	1800	S56	100210.00	✓	406	C4T17DJ3	18	208-230/460	None	1.6	1.35	64.30	10.31	S, MX
	1800	S56	101520.00	✓	493	A4T17DJ18	19	208-230/460	Auto.	1.6	1.35	64.30	10.81	S, MX, 33
1/2	3600	S56	101640.00	C/A	447	A4T34DJ3	18	208-230/460	Auto.	2.4	1.25	69.00	10.31	S, US, 33
	1800	S56	100145.00	✓	465	C4T17DJ1	22	208-230/460	None	2.0	1.25	68.00	10.81	S, MX
	1800	S56	100796.00	✓	541	A4T17DJ10	22	208-230/460	Auto.	2.0	1.25	68.00	11.31	S, MX
3/4	3600	S56	101773.00	✓	467	C4T34DJ8	20	208-230/460	None	2.4	1.25	79.00	10.81	S, US
	3600	S56	101641.00	✓	545	A4T34DJ5	20	208-230/460	Auto.	2.4	1.25	79.00	11.31	S, US, 33
	1800	S56	100146.00	✓	516	C4T17DJ2	25	208-230/460	None	2.8	1.25	75.00	11.31	S, MX
	1800	S56	100908.00	✓	587	A4T17DJ13	26	208-230/460	Auto.	2.8	1.25	75.00	11.81	S, US, 33
1	3600	56	114192.00	✓	498	C6T34DR35	24	208-230/460	None	3.2	1.25	77.00	10.82	S, US
	3600	56	113895.00	C/A	575	A6T34DR30	25	208-230/460	Auto.	3.2	1.25	77.00	10.82	S, US, 33
	1800	56	110052.00	✓	542	C6T17DR1	23	208-230/460	None	4.2	1.15	78.50	11.31	S, US
	1800	56H	111311.00	✓	610	A6T17DR11	27	208-230/460	Auto.	4.2	1.15	78.50	11.31	S, US, 33
1 1/2	3600	56H	114194.00	C/A	606	C6T34DR36	31	208-230/460	None	4.2	1.15	81.50	11.82	S, US
	3600	56H	113896.00	C/A	652	A6T34DR31	29	208-230/460	Auto.	4.2	1.15	81.50	11.82	S, US, 33
	1800	56H	110433.00	✓	624	C6T17DR4	32	208-230/460	None	5.6	1.15	78.50	11.81	S, US
	1800	56H	113846.00	✓	647	A6T17DR25	29	208-230/460	Auto.	5.6	1.15	78.50	11.81	S, US, 33
2	3600	56H	114196.00	C/A	702	C6T34DR37	36	208-230/460	None	5.6	1.15	82.90	12.32	S, US
	3600	56H	113897.00	✓	756	A6T34DR32	39	208-230/460	Auto.	5.6	1.15	82.90	12.32	S, US, 33
	1800	56H	114197.00	✓	678	C6T17DR29	37	208-230/460	None	6.2	1.15	78.50	12.31	S, US
	1800	56H	113847.00	✓	742	A6T17DR26	34	208-230/460	Auto.	6.2	1.15	78.50	12.31	S, US, 33
3	3600	56HZ	113926.00	✓	747	U6T34DR33	40	208-230/460	Auto.	7.6	1.00	84.00	13.19	S, US, 33
	1800	56HZ	116593.00	✓	813	A6T17DR33	47	230/460	Auto.	8.6	1.15	82.50	14.19	S, US, 33

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Specifications are subject to change without notice



View On-line Technical Information

Three Phase ODP Motors

F2 Conduit Box Mount Motors - General Purpose

Three Phase - ODP - Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230	Service Factor	% F.L. Eff.	"C" Dim. (Inches)	♥Notes
3	1800	182T	132232.00	✓	800	C182T17DB57	75	208-230/460	7.2	1.2	89.5	13.70	S, MX
5	1800	184T	132233.00	✓	889	C184T17DB77	86	208-230/460	12.8	1.2	89.5	14.70	S, MX
7 1/2	1800	213T	140831.00	C/A	1,115	C213T17DB14	133	208-230/460	20.6	1.3	91.0	16.30	S, MX

Green items are Premium Efficient

♥ Note listing on inside back flap

C/A - Check Availability

Specifications are subject to change without notice

Three Phase ODP Motors

Three Phase - Automatic Overload Protected Motors

General Specifications:

- General purpose
- Automatic reset protection
- Not for use with variable frequency inverters



Three Phase - Drip-Proof - Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230	Service Factor	% F.L. Eff.	"C" Dim. (Inches)	♥Notes
3	1800	182T	132234.00	✓	950	U182T17DB61	58	208-230/460	Auto	8.4	1.15	86.50	12.69	S, MX
5	1800	184T	132235.00	✓	1,066	U184T17DB82	78	208-230/460	Auto	13.2	1.15	87.50	13.69	S, MX

Green items are Premium Efficient

♥ Note listing on inside back flap

Specifications are subject to change without notice

View On-line Technical Information



Tech Information

Single Phase
ODP Motors

Single Phase
TEFC Motors

Single Phase
C Face Motors

Three Phase
ODP Motors

Three Phase
TEFC Motors

Three Phase
C Face Motors

Inverter Duty
Motors

Severe Duty
Motors

Three Phase Motors Totally Enclosed

**Three Phase Motors – General Purpose – Totally Enclosed –
208-230/460V & 460V Rigid Mount – ¼ HP – 400 HP
Steel Frame – Cast Iron Frame – Aluminum Frame**



- Standard, EPAct and Premium efficient ratings
- Inverter-rated
- Class B insulation systems – 42, 48 and 56 frames
- Class F insulation system – 140 frame and higher
- Shielded ball bearings for direct coupled applications
Contact your local sales office for belted load applications
- Continuous duty
- Dynamically balanced rotors
- 1-year warranty on Standard efficient motors
- 2-year warranty on EPAct efficient motors
- 3-year warranty on Premium efficient motors
- Torques exceed NEMA performance standards
- UL recognized and CSA certified



Applications:

- For use where exposure to water, dust and corrosives exists. Ideally suited for use on pumps, compressors, fans, blowers, conveyors, machine tools and other industrial applications.



Three Phase Motors Totally Enclosed Fan Cooled

General Purpose - Standard,
EPAct and Premium Efficient - Three Phase Motors

Three Phase - TEFC - Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
1/4	1800	48	101646.00	✓	338	C4T17FB9	18	208-230/460	1.4	58.0	1.15	9.31	S, MX
	1800	48	LM24929	✓	355	SPF4S0.25T61	17	230/460	1.3	62.5	1.15	9.59	S, MX
1/3	3600	48	102684.00	✓	340	C4T34FB5	18	208-230/460	1.4	68.0	1.00	8.81	S, US
	1800	48	101647.00	✓	404	C4T17FB10	21	208-230/460	1.6	64.3	1.15	9.31	S, MX
	1800	S56	101079.00	✓	371	C4T17FH6	22	208-230/460	1.6	64.3	1.15	9.69	S, MX
	1800	S56	LM24107	✓	397	SRF4S0.33T61	16	230/460	1.6	65.5	1.15	10.22	S, MX
	1800	S56	103019.00	✓	542	C4T17FH12	24	208-230/460	1.3	77.0	1.25	10.19	S, MX
	1200	56	110441.00	✓	583	C6T11FB5	23	208-230/460	1.6	65.0	1.15	10.81	S, US
1/2	3600	48	100905.00	✓	398	C4T34FB2	18	208-230/460	1.8	69.0	1.00	9.94	S, US
	3600	56	LM24165	✓	411	SRF2S0.5T61	22	230/460	2.2	69.0	1.15	11.82	S, US
	1800	48	100961.00	✓	474	C4T17FB4	21	208-230/460	2.0	73.0	1.15	9.56	S, MX
	1800	S56	100913.00	✓	425	C4T17FH1	24	208-230/460	2.0	73.0	1.15	9.94	S, MX
	1800	S56	LM24073	✓	454	SRF4S0.5T61	18	230/460	2.2	70.0	1.15	10.72	S, MX
	1800	S56	103020.00	✓	575	C4T17FH13	27	208-230/460	1.8	77.0	1.25	10.69	S, MX
	1200	56	110353.00	✓	629	C6T11FB2	26	208-230/460	2.4	70.0	1.15	11.31	S, US
	1200	56	LM24105	✓	657	SRF6S0.5T61	24	230/460	2.7	68.0	1.15	11.82	S, MX
	900	56	114618.00	✓	938	C6T8FB11	31	208-230/460	2.4	69.0	1.15	11.81	S, US
	900	143T	LM24291	C/A	979	SSF8S0.5T61	31	230/460	2.6	66.0	1.15	13.37	S, US
	3600	48	100960.00	✓	437	C4T34FB3	21	208-230/460	2.4	79.0	1.00	10.44	S, US
	3600	56	110313.00	✓	437	C6T34FB2	22	208-230/460	2.4	75.5	1.15	10.81	S, US
3/4	3600	56	LM24133	✓	454	SRF2S0.75T61	23	230/460	3.2	74.0	1.15	11.82	S, US
	1800	56	110034.00	✓	453	C6T17FB1	22	208-230/460	2.8	77.0	1.15	10.81	S, US
	1800	S56	LM24075	✓	488	SRF4S0.75T61	30	230/460	2.8	75.5	1.15	11.22	S, MX
	1800	56	116739.00	✓	604	C6T17FB152	31	208-230/460	2.4	81.5	1.25	11.31	S, US
	1200	56	110275.00	✓	629	C6T11FB3	33	208-230/460	3.0	75.5	1.15	11.81	S, US
	1200	56	LM24136	✓	673	SRF6S0.75T61	28	230/460	3.2	74.0	1.15	12.32	S, MX
	1200	143T	121009.00	✓	642	C143T11FB2	34	208-230/460	3.0	75.5	1.15	12.75	S, US
	1200	143T	LM24103	✓	673	SSF6S0.75T61	29	230/460	3.2	74.0	1.15	12.37	S, MX
	900	145T	121199.00	✓	1,081	C145T8FB5	21	208-230/460	3.1	70.0	1.15	12.75	S, US
	900	145T	LM24276	✓	1,121	SSF8S0.75T61	49	230/460	4.8	70.0	1.15	14.87	S, US

Green items are Premium Efficient

▼ LM Numbers are Lincoln Models

C/A - Check Availability

Specifications are subject to change without notice

♥ Note listing on inside back flap

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Tech Information

Single Phase
ODP Motors

Single Phase
TEFC Motors

Single Phase
C Face Motors

Three Phase
ODP Motors

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Three Phase
C Face Motors

Inverter Duty
Motors

Severe Duty
Motors

Three Phase Motors Totally Enclosed Fan Cooled

General Purpose - Standard,
 EPA and Premium Efficient - Three Phase Motors

Three Phase - TEFC - Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
1	3600	56	110145.00	✓	511	C6T34FB1	24	208-230/460	3.2	77.0	1.15	10.81	S, US
	3600	56	LM24094	✓	534	SRF2S1T61	24	230/460	3.7	74.0	1.15	11.82	S, US
	3600	56	116129.00	✓	677	C6T34FB49	24	208-230/460	2.8	80.0	1.25	11.31	S, US
	1800	56	110035.00	✓	474	C6T17FB2	30	208-230/460	3.8	77.0	1.15	11.31	S, US
	1800	56	LM24078	✓	505	SRF4S1T61	27	230/460	3.6	77.0	1.15	12.32	S, MX
	1800	56	116757.00	✓	742	C6T17FB151	32	208-230/460	3.2	85.5	1.25	12.81	S, US
	1800	56HZ	115830.00	✓	502	C6T17FB120	33	208-230/460	3.8	77.0	1.15	12.75	S, US, 5
	1800	143T	120921.00	✓	742	C143T17FB13	32	208-230/460	3.2	85.5	1.25	13.25	S, US
	1800	143T	LM32796	✓	733	SSF4B1T61	41	230/460	3.2	85.5	1.25	12.93	S, MX
	1800	143T	171640.60	✓	796	C145T17FB25	61	208-230/460	3.2	85.5	1.15	13.46	C, CN
	1800	143T	LM24102	✓	815	CCN3BIT61	56	230/460	3.0	85.5	1.25	10.43	C, US
	1200	56	113933.00	✓	651	C6T11FB13	35	208-230/460	4.0	77.0	1.15	12.31	S, US
1 1/2	3600	56H	LM24159	✓	679	SRF6S1T61	35	230/460	4.0	78.5	1.15	12.82	S, MX
	1200	145T	121520.00	✓	877	C145T11FB20	47	208-230/460	3.8	82.5	1.25	13.75	S, US
	1200	145T	LM33121	✓	841	SSF6B1T61	35	230/460	3.8	82.5	1.15	14.87	S, MX
	1200	145T	171643.60	✓	937	C145T11FB25	58	208-230/460	3.8	82.5	1.25	13.46	C, CN
	900	182T	G131478.00	✓	1,332	C182T8FB9	57	230/460	4.2	74.0	1.15	12.96	S, MX
	3600	56	110745.00	✓	559	C6T34FB16	30	208-230/460	4.2	81.5	1.15	11.81	S, US
	3600	56	LM24144	✓	586	SRF2S1.5T61	34	230/460	4.6	80.0	1.15	11.82	S, US
	3600	56	116758.00	✓	768	C6T34FB50B	33	208-230/460	4.0	84.0	1.25	12.81	S, US
	3600	143T	121518.00	✓	768	C143T34FB1	33	208-230/460	4.0	84.0	1.25	13.25	S, US
	3600	143T	LM33122	✓	768	SSF2B1.5T61	32	230/460	4.0	84.0	1.25	13.37	S, US
	3600	143T	171642.60	✓	823	C143T34FB5	49	208-230/460	4.0	84.0	1.15	13.46	C, CN
	1800	56	110444.00	✓	533	C6T17FB14	30	208-230/460	5.0	78.5	1.15	11.81	S, US
2	3600	56H	LM24118	✓	537	SRF4S1.5T61	30	230/460	4.8	80.0	1.15	12.32	S, MX
	1800	56	116759.00	✓	757	C6T17FB150	34	208-230/460	4.8	86.5	1.25	13.31	S, US
	1800	56HZ	115829.00	✓	513	C6T17FB121	37	208-230/460	5.0	78.5	1.15	12.75	S, US, 5
	1800	145T	120922.00	✓	770	C145T17FB33	34	208-230/460	4.8	86.5	1.15	13.75	S, US
	1800	145T	LM33123	✓	770	SSF4B1.5T61	45	230/460	4.8	86.5	1.25	13.43	S, MX
	1800	145T	171646.60	✓	822	C145T17FB78	69	208-230/460	4.8	86.5	1.15	13.46	C, CN
	1800	145T	LM25637	✓	870	CCN4B1.5T61	62	230/460	4.4	84.0	1.25	11.43	C, US
	1200	56H	114930.00	✓	748	C6T11FB17	48	208-230/460	5.7	77.0	1.15	13.31	S, US
	1200	56HZ	116591.00	✓	758	C6T11FB24	45	208-230/460	5.7	77.0	1.15	13.75	S, US, 5
	1200	182T	131980.00	✓	1,278	C182T11FB9	89	208-230/460	5.6	87.5	1.15	15.96	S, MX
	1200	182T	199001.00	✓	799	C182T11FB1	113	230/460	4.8	87.5	1.15	14.80	C, CN
	1200	182T	LM15648	✓	1,079	AAF6B1.5T61	83	230/460	4.4	87.7	1.25	15.19	A, US
3	900	184T	G131479.00	✓	1,583	C184T8FB6	68	230/460	5.6	77.0	1.15	13.96	S, MX
	900	184T	LM32798	✓	1,477	AAF8P1.5T61	71	230/460	6.2	77.0	1.15	15.19	A, US

Green items are Premium Efficient

♥ Note listing on inside back flap

▼ LM Numbers are Lincoln Models

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Specifications are subject to change without notice



View On-line Technical Information



Three Phase Motors Totally Enclosed Fan Cooled

General Purpose - Standard,

EPAct and Premium Efficient - Three Phase Motors

Three Phase - TEFC - Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥ Notes
2	3600	56	111916.00	✓	629	C6T34FB24	33	208-230/460	5.6	82.5	1.15	12.31	S, US
	3600	56	116760.00	✓	840	C6T34FB51	44	208-230/460	4.8	85.5	1.25	13.31	S, US
	3600	145T	121519.00	✓	840	C145T34FB33	44	208-230/460	4.8	85.5	1.25	13.75	S, US
	3600	145T	LM33124	✓	840	SSF2BT61	31	230/460	4.8	85.5	1.25	13.43	S, US
	3600	145T	171648.60	✓	898	C145T34FB37	56	208-230/460	4.8	85.5	1.25	13.46	C, CN
	1800	56H	113026.00	✓	579	C6T17FB65	35	208-230/460	6.2	81.5	1.15	12.31	S, US
	1800	56H	LM24097	✓	570	SRF4S2T61	40	230/460	5.8	82.5	1.15	13.82	S, MX
	1800	56HZ	115828.00	✓	537	C6T17FB119	37	208-230/460	6.2	81.5	1.15	12.75	S, US
	1800	56H	116761.00	✓	801	C6T17FB154	45	208-230/460	5.8	86.5	1.25	14.32	S, US
	1800	145T	120923.00	✓	801	C145T17FB32	45	208-230/460	5.8	86.5	1.25	14.76	S, US
	1800	145T	LM33125	✓	693	SSF4B2T61	41	230/460	6.5	86.5	1.25	13.93	S, MX
	1800	145T	171647.60	✓	856	C145T17FB79	68	208-230/460	5.8	86.5	1.15	13.46	C, CN
	1800	145T	LM24127	✓	915	CCN4B2T61	64	230/460	6.0	85.5	1.15	11.43	C, US
	1200	184T	131981.00	✓	1,301	C184T11FB20	89	208-230/460	7.2	88.5	1.15	15.96	S, MX
	1200	184T	199002.00	✓	888	C184T11FB1	125	230/460	6.0	88.5	1.15	15.81	C, CN
	1200	184T	LM15651	✓	1,103	AAF6B2T61	92	230/460	6.0	88.5	1.25	16.19	A, US
	1200	184T	LM33563	✓	1,118	AAF6B2T61AP26	92	230/460	6.0	88.5	1.25	16.19	A, MX
	900	213T	G140516.00	✓	2,186	C213T8FB3	114	230/460	8.0	82.5	1.15	18.22	S, MX
	900	213T	LM32799	✓	1,752	AF8P2T61	101	230/460	7.3	82.5	1.15	17.20	A, US
3	3600	56H	114614.00	✓	732	C6T34FB35	40	208-230/460	7.6	84.0	1.15	13.25	S, US, 5
	3600	145T	121968.00	✓	969	C145T34FB49	48	208-230/460	8.0	86.5	1.15	13.93	S, US
	3600	182T	131985.00	✓	1,043	C182T34FB72	66	208-230/460	7.6	86.5	1.25	13.96	S, MX
	3600	182T	199003.00	✓	977	C182T34FB1	94	230/460	7.6	86.5	1.15	14.80	C, CN
	3600	182T	LM15646	✓	1,327	AAF2B3T61	83	230/460	7.6	87.5	1.25	15.19	A, US
	3600	182T	LM33262	C/A	1,043	SSF2B3T61	75	230/460	7.6	87.5	1.15	13.46	S, MX
	1800	56HZ	116594.00	✓	635	C6T17FB144	45	208-230/460	8.6	82.5	1.00	14.26	S, US
	1800	182T	131463.00	✓	906	C182T17FB32	80	208-230/460	7.8	89.5	1.15	13.96	S, MX
	1800	182T	LM15647	✓	1,067	AAF4B3T61	83	230/460	8.0	89.5	1.25	15.19	A, US
	1800	182T	LM33486	✓	960	AAF4B3T61AP26	83	230/460	8.0	89.5	1.25	15.19	A, MX
	1800	182T	LM32741	✓	906	SSF4B3T61	77	230/460	7.8	89.5	1.15	13.96	S, MX
	1800	182T	171320.60	✓	1,017	C182T17FB42	108	208-230/460	7.8	89.5	1.25	15.89	C, CN
	1800	182T	199004.00	✓	901	C182T17FB1	102	230/460	7.8	89.5	1.15	14.80	C, CN
	1200	213T	171378.60	✓	1,439	C213T11FB1	166	208-230/460	9.4	89.5	1.25	18.19	C, CN
	1200	213T	199005.00	✓	1,274	C213T11FB1	173	230/460	8.6	89.5	1.15	18.23	C, CN
	1200	213T	LM16030	✓	1,585	AF6B3T61	127	230/460	9.0	87.5	1.15	17.20	A, US
	1200	213T	LM60027	D	1,366	CCF6B3T61AP21	170	230/460	9.6	89.5	1.25	18.19	C, CN
	900	215T	G151809.22	C/A	3,413	C215T8FB1	171	208-230/460	11.4	84.0	1.15	19.61	C, CA

Green items are Premium Efficient

♥ Note listing on inside back flap

▼ LM Numbers are Lincoln Models

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Specifications are subject to change without notice

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Tech Information

Single Phase
ODP Motors

Single Phase
TEFC Motors

Single Phase
C Face Motors

Three Phase
ODP Motors

Three Phase
TEFC Motors

Three Phase
C Face Motors

Inverter Duty
Motors

Severe Duty
Motors

Three Phase Motors Totally Enclosed Fan Cooled

General Purpose - Standard,
EPAct and Premium Efficient - Three Phase Motors

Three Phase - TEFC - Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
5	3600	184T	131987.00	✓	1,166	C184T34FB20	88	208-230/460	12.0	88.5	1.25	16.46	S, MX
	3600	184T	LM15649	✓	1,486	AAF2BT61	89	230/460	11.8	89.5	1.25	16.19	A, US
	3600	184T	199006.00	✓	992	C184T34FB1	109	230/460	12.0	88.5	1.15	15.81	C, CN
	3600	184T	LM15869	C/A	1,486	CCF2BT61	108	230/460	11.8	88.5	1.15	15.81	C, US
	1800	184T	131464.00	✓	996	C184T17FB42	87	208-230/460	12.8	89.5	1.15	14.96	S, MX
	1800	184T	LM15650	✓	1,108	AAF4B5T61	104	230/460	12.4	90.2	1.25	16.19	A, US
	1800	184T	171322.60	✓	1,057	C184T17FB43	112	208-230/460	12.8	89.5	1.25	16.80	C, CN
	1800	184T	199007.00	✓	980	C184T17FB1	117	230/460	12.4	90.2	1.15	15.81	C, CN
	1200	215T	171379.60	✓	1,604	C215T11FB1	176	208-230/460	14.4	89.5	1.25	19.61	C, CN
	1200	215T	199008.00	✓	1,405	C215T11FB1	203	230/460	14.0	90.2	1.15	19.73	C, CN
	1200	215T	LM16033	✓	1,838	AF6B5T61	138	230/460	13.8	89.5	1.15	18.70	A, US
	1200	215T	LM32802	✓	1,583	SSF6BT61	140	230/460	14.0	90.2	1.15	20.23	S, US
	900	254T	G151355.22	✓	3,817	C254T8FB5	188	208-230/460	14.4	88.3	1.15	23.23	C, CA
	900	254T	LM32803	✓	2,607	AF8P5T61	159	230/460	15.0	87.5	1.15	23.40	A, US
7 1/2	3600	213T	170158.60	✓	1,487	C215T11FB11	156	208-230/460	18.0	91.0	1.25	18.19	C, CN
	3600	213T	199009.00	✓	1,371	C213T34FB1	185	230/460	17.8	89.5	1.15	18.23	C, CN
	3600	213T	LM28968	✓	1,681	AF2B7.5T61	127	230/460	17.8	91.7	1.25	20.65	A, US
	3600	213T	LM60031	D	1,413	CCF2B7.5T61AP21	147	230/460	20.0	91.0	1.15	18.19	C, CN
	3600	213T	140756.00	✓	1,405	C213T34FB1	156	208-230/460	17.8	90.2	1.15	19.84	S, MX
	1800	213T	140450.00	✓	1,280	C213T17FB6	153	208-230/460	21.4	91.7	1.25	18.70	S, MX
	1800	213T	LM32805	✓	1,182	SSF4B7.5T61	144	230/460	19.4	91.7	1.15	20.23	S, US
	1800	213T	LM16029	✓	1,765	AF4B7.5T61	127	230/460	19.2	91.1	1.25	18.70	A, US
	1800	213T	170157.60	✓	1,413	C213T17FB43	158	208-230/460	18.6	91.7	1.25	18.19	C, CN
	1800	213T	199010.00	✓	1,334	C213T17FB1	194	230/460	18.6	91.7	1.15	18.23	C, CN
	1800	213T	LM24209	✓	1,507	CCF4B7.5T61	180	230/460	19.2	91.7	1.25	19.70	C, US
	1800	213T	LM60032	D	1,344	CCF4B7.5T61AP21	155	230/460	18.8	91.9	1.15	18.19	C, CN
	1200	254T	170122.60	✓	2,090	C254T11FB3	259	208-230/460	22.2	91.7	1.25	23.19	C, CN
	1200	254T	199011.00	✓	1,979	C254T11FB1	223	230/460	20.4	91.0	1.15	23.70	C, CN
	1200	254T	LM15672	✓	2,701	AF6B7.5T61	209	230/460	19.8	91.0	1.25	23.40	A, US
	900	256T	G151356.22	✓	4,549	C256T8FB42	300	208-230/460	20.0	87.7	1.15	24.96	C, CA
	900	256T	LM32807	✓	3,085	AF8P7.5T61	195	230/460	23.0	86.5	1.15	25.15	A, US

Green items are Premium Efficient

▼ LM Numbers are Lincoln Models

C/A - Check Availability

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♥ Note listing on inside back flap

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Three Phase Motors Totally Enclosed Fan Coolec

General Purpose - Standard,
EPAct and Premium Efficient - Three Phase Motors

Three Phase - TEFC - Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥ Notes
10	3600	215T	140755.00	✓	1,631	C215T34FB11	170	208-230/460	23.6	91.7	1.15	21.09	S, MX
	3600	215T	LM32808	✓	1,768	SSF2B10T61	172	230/460	23.6	91.7	1.15	21.48	S, US
	3600	215T	170159.60	✓	1,761	C215T34FB47	181	208-230/460	23.4	91.7	1.25	19.61	C, CN
	3600	215T	199012.00	✓	1,519	C215T34FB1	217	230/460	22.8	90.2	1.15	19.73	C, CN
	3600	215T	LM16031	✓	1,861	AF2B10T61	185	230/460	23.6	91.7	1.25	19.70	A, US
	1800	215T	140451.00	✓	1,548	C215T17FB18	161	208-230/460	26.6	91.7	1.25	19.70	S, MX
	1800	215T	LM32809	✓	1,460	SSF4B10T61	168	230/460	26.0	91.7	1.25	21.48	S, US
	1800	215T	170140.60	✓	1,687	C215T17FB43	196	208-230/460	25.0	91.7	1.25	19.61	C, CN
	1800	215T	199013.00	✓	1,502	C215T17FB1	225	230/460	24.4	91.7	1.15	19.73	C, CN
	1800	215T	LM16032	✓	1,872	AF4B10T61	160	230/460	26.9	91.7	1.25	18.70	A, US
	1800	215T	LM60035	D	1,602	CCF4B10T61AP21	177	230/460	25.0	91.7	1.15	19.61	C, CN
	1200	256T	170123.60	✓	2,989	C256T11FB4	310	208-230/460	29.0	91.7	1.25	24.92	C, CN
	1200	256T	199014.00	✓	2,535	C256T11FB1	368	230/460	26.8	91.0	1.15	25.43	C, CN
	1200	256T	LM15675	✓	3,174	AF6B10T61	236	230/460	26.2	91.0	1.25	25.15	A, US
	900	284T	G150282.22	✓	5,284	C284T8FB2	346	208-230/460	26.0	88.8	1.15	26.26	C, CA
	15	215T	170615.60	✓	2,214	C215T34FB13	223	208-230/460	35.0	92.4	1.15	19.61	C, CN
		254T	170062.60	✓	2,392	C254T34FB4	292	208-230/460	35.0	92.4	1.25	23.19	C, CN
		254T	199015.00	✓	2,250	C254T34FB1	350	230/460	34.0	91.0	1.15	23.70	C, CN
		254T	LM15670	✓	2,551	AAF2B15T61	215	230/460	35.0	91.7	1.25	23.40	A, US
		254T	LM60037	D	2,273	CCF2B15T61AP21	282	230/460	34.5	92.4	1.15	23.19	C, CN
		1800	170066.60	✓	2,283	C254T17FB10	290	208-230/460	36.0	92.4	1.25	23.19	C, CN
		1800	199016.00	✓	2,121	C254T17FB1	375	230/460	37.0	92.4	1.15	23.70	C, CN
		1800	LM15671	✓	2,256	AAF4B15T61	209	230/460	37.5	92.4	1.25	23.40	A, US
		1800	LM24208	✓	2,550	CCF4B15T61	322	230/460	37.5	92.4	1.25	23.52	C, US
		1800	LM60038	D	2,169	CCF4515T61AP21	280	230/460	36.5	93.4	1.15	23.19	C, CN
		1200	170068.60	✓	4,101	C284T11FB4	380	208-230/460	40.6	92.4	1.25	26.26	C, CN
		1200	199017.00	✓	3,510	C284T11FB1	475	230/460	39.5	91.7	1.15	27.83	C, CN
	900	286T	G150261.22	✓	5,805	G150261.22	480	208-230/460	40.0	91.0	1.15	27.83	C, CA
20	3600	256T	170033.60	✓	2,925	C256T34FB10	332	208-230/460	46.0	92.4	1.15	24.92	C, CN
	3600	256T	199018.00	✓	2,648	C256T34FB1	375	230/460	46.0	91.0	1.15	27.80	C, CN
	3600	256T	LM15673	✓	2,974	AF2B0T61	325	230/460	47.0	92.4	1.25	25.15	A, US
	3600	256T	LM60040	D	2,777	CCF2B20T61AP21	316	230/460	46.0	92.4	1.15	24.92	C, CN
	1800	256T	170007.60	✓	2,856	C256T17FB4	332	208-230/460	49.0	93.0	1.15	24.92	C, CN
	1800	256T	199019.00	✓	2,681	C256T17FB1	425	230/460	48.0	93.0	1.15	27.80	C, CN
	1800	256T	LM15674	✓	2,831	AAF4B20T61	295	230/460	48.0	93.0	1.25	25.15	A, US
	1800	256T	LM60041	D	2,714	CCF4B20T61AP21	322	230/460	49.0	93.0	1.15	24.92	C, CN
	1200	286T	170001.60	✓	5,129	C286T11FB6	406	208-230/460	54.0	91.7	1.15	27.83	C, CN
	1200	286T	199020.00	✓	3,619	C286T11FB1	550	230/460	52.0	91.7	1.15	31.34	C, CN
	900	324T	G150263.22	C/A	6,981	C324T8FB3	640	208-230/460	54.0	91.0	1.15	29.53	C, CA

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Three Phase Motors Totally Enclosed Fan Cooled

**General Purpose - Standard,
EPAct and Premium Efficient - Three Phase Motors**

Three Phase - TEFC - Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥ Notes
25	3600	284TS	170035.60	✓	3,803	C284T34FB5	393	208-230/460	56.8	93.0	1.15	24.88	C, CN
	3600	284TS	199021.00	✓	3,400	C284T34FB1	475	230/460	55.5	91.7	1.15	28.82	C, CN
	3600	284TS	LM13960	✓	4,516	AF2B25TS61Y	385	230/460	56.0	92.4	1.25	25.25	A, US
	3600	284TS	LM60043	D	3,612	CCF2B25T61AP21	383	230/460	56.5	93.0	1.15	24.86	C, CN
	3600	284T	LM32811	C/A	4,516	AF2B25T61Y	433	230/460	56.0	92.4	1.25	26.62	A, US
	1800	284T	170011.60	✓	3,592	C284T17FB5	395	208-230/460	59.0	93.6	1.15	26.26	C, CN
	1800	284T	199022.00	✓	3,242	C284T17FB1	500	230/460	62.0	93.6	1.15	30.16	C, CN
	1800	284T	LM13961	✓	3,840	AF4B25T61Y	495	230/460	64.0	93.6	1.25	26.62	A, US
	1200	324T	170003.60	✓	6,002	C324T11FB3	555	208-230/460	66.0	93.0	1.15	29.53	C, CN
	1200	324T	199023.00	✓	4,509	C324T11FB1	675	230/460	66.0	93.0	1.15	32.68	C, CN
	900	326T	G150265.22	C/A	8,140	C326T8FB2	700	208-230/460	63.0	90.2	1.15	31.02	C, CA
30	3600	286TS	170037.60	✓	4,489	C286T34FB4	423	208-230/460	67.0	93.0	1.15	26.46	C, CN
	3600	286TS	199024.00	✓	3,931	C286T34FB1	500	230/460	66.0	91.7	1.15	30.00	C, CN
	3600	286TS	LM60046	D	4,265	CCF2B30TS61AP21	385	230/460	69.0	94.1	1.15	26.36	C, CN
	3600	286T	LM32813	✓	4,929	AF2B30T61Y	438	230/460	66.0	92.4	1.25	28.12	A, US
	1800	286T	170015.60	✓	4,184	C286T17FB5	442	208-230/460	70.0	94.1	1.15	27.83	C, CN
	1800	286T	199025.00	✓	3,660	C286T17FB1	525	230/460	73.0	93.6	1.15	31.34	C, CN
	1800	286T	LM13964	✓	4,408	AF4B30T61Y	426	230/460	75.0	93.6	1.25	28.12	A, US
	1200	326T	170005.60	✓	6,736	C326T11FB3	624	208-230/460	77.0	93.6	1.15	31.02	C, CN
	1200	326T	199026.00	✓	4,731	C326T11FB1	725	230/460	80.0	93.0	1.15	33.86	C, CN

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Three Phase Motors Totally Enclosed Fan Cooled

General Purpose - Standard,

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Three Phase - TEFC - Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥ Notes
40	3600	324TS	170039.60	✓	5,599	C324T34FB3	510	208-230/460	89.0	93.6	1.25	28.03	C, CN
	3600	324TS	199027.00	✓	4,719	C324T34FB1	675	230/460	88.0	92.4	1.15	31.26	C, CN
	3600	324TS	LM60049	D	5,319	CCF2B40TS61AP21	504	230/460	90.0	93.6	1.15	38.03	C, CN
	3600	324T	LM32671	C/A	7,276	SF2B40T61Y	535	230/460	88.0	93.6	1.25	28.50	S, US
	1800	324TS	LM32686	✓	8,738	SF4B40TS61Y	504	230/460	101.0	94.1	1.25	27.00	S, US
	1800	324T	170019.60	✓	5,558	C324T17FB5	539	230/460	92.0	94.1	1.15	29.53	C, CN
	1800	324T	199028.00	✓	4,657	C324T17FB1	750	230/460	94.0	94.1	1.15	32.68	C, CN
	1800	324T	LM13699	✓	8,738	SF4B40T61Y	504	230/460	101.0	94.1	1.25	28.50	S, US
50	1200	364T	170096.60	✓	9,234	C364T11FB4	875	208-230/460	102.0	94.1	1.15	32.64	C, CN
	1200	364T	199029.00	✓	6,638	C364T11FB1	950	230/460	94.0	94.1	1.15	36.61	C, CN
	3600	326TS	170041.60	✓	6,799	C326T34FB4	564	208-230/460	111.0	94.5	1.25	29.53	C, CN
	3600	326TS	199030.00	✓	5,480	C326T34FB1	725	230/460	109.0	93.0	1.15	32.44	C, CN
	3600	326T	LM32669	C/A	8,681	SF2B50T61Y	558	230/460	111.0	94.1	1.25	30.00	S, US
	1800	326TS	LM32815	C/A	8,631	SF4B50TS61Y	558	230/460	127.0	94.5	1.25	34.50	S, US
	1800	326T	170023.60	✓	6,713	C326T17FB7	587	208-230/460	117.0	94.5	1.15	31.02	C, CN
	1800	326T	199031.00	✓	5,355	C326T17FB1	775	230/460	119.0	94.5	1.15	33.86	C, CN
	1800	326T	LM13701	✓	8,631	SF4B50T61Y	585	230/460	127.0	94.5	1.25	36.00	S, US
	1200	365T	170097.60	✓	11,082	C365T11FB5	893	208-230/460	124.0	94.1	1.15	33.62	C, CN
	1200	365T	199032.00	✓	8,863	C365T11FB1	1000	230/460	117.0	94.1	1.15	38.39	C, CN
	1200	365T	LM60054	D	10,528	CCF6B50T61AP21	672	230/460	126.0	94.1	1.15	32.50	C, CN
	3600	364TS	170043.60	✓	10,086	C364T34FB3	849	208-230/460	136.0	94.1	1.15	30.51	C, CN
	3600	364TS	199033.00	✓	7,923	C364T34FB1	925	230/460	132.0	93.6	1.15	34.57	C, CN
	1800	364T	170027.60	✓	9,548	C364T17FB6	988	208-230/460	137.0	95.4	1.15	32.64	C, CN
	1800	364T	199034.00	✓	7,630	C364T17FB1	1000	230/460	138.0	95.0	1.15	36.61	C, CN
60	1800	364T	LM14809	✓	11,664	SF4B60T61Y	765	230/460	144.0	95.0	1.25	31.90	S, US
	1800	364T	LM60056	D	9,071	CCF4B60T61AP21	666	230/460	139.0	95.4	1.15	31.50	C, CN
	1200	404T	170098.60	✓	13,071	C404T11FB3	1035	208-230/460	142.0	94.5	1.25	36.42	C, CN
	1200	404T	199035.00	✓	9,522	C404T11FB1	1200	230/460	140.0	94.5	1.15	42.72	C, CN
	1200	404T	LM60057	D	12,418	CCF6B60T61AP21	870	230/460	142.0	95.0	1.15	36.42	C, CN

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Three Phase Motors Totally Enclosed Fan Cooled

**General Purpose - Standard,
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Three Phase - TEFC - Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 460V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥ Notes
75	3600	365TS	170045.60	✓	12,354	C365T34FB3	889	208-230/460	169.0	94.5	1.15	31.50	C, CN
	3600	365TS	199036.00	✓	8,452	C365T34FB1	1025	230/460	164.0	94.1	1.15	36.34	C, CN
	3600	365TS	LM60058	D	11,736	CCF2B75TS61AP21	780	230/460	167.0	94.5	1.15	31.50	C, CN
	1800	365TS	LM32672	✓	11,680	SF4B75TS61Y	822	230/460	178.0	95.4	1.25	30.77	S, US
	1800	365T	170031.60	✓	11,915	C365T17FB4	1050	208-230/460	171.0	95.8	1.15	33.62	C, CN
	1800	365T	199037.00	✓	8,280	C365T17FB1	1100	230/460	170.0	95.4	1.15	38.39	C, CN
	1800	365T	LM14811	✓	11,680	SF4B75T61Y	822	230/460	178.0	95.4	1.15	32.90	S, US
	1200	405T	170099.60	✓	13,778	C405T11FB5	995	208-230/460	176.0	95.0	1.25	37.91	C, CN
	1200	405T	199038.00	✓	11,454	C405T11FB1	1300	230/460	174.0	94.5	1.15	42.72	C, CN
100	1200	405T	LM60060	D	13,088	CCF6B75T61AP21	975	230/460	176.0	95.0	1.15	37.91	C, CN
	3600	405TS	170160.60	✓	15,212	C405T34FB5	975	208-230/460	218.0	95.0	1.25	34.92	C, CN
	3600	405TS	199039.00	✓	10,676	C405T34FB1	1250	230/460	216.0	94.5	1.15	39.76	C, CN
	3600	405TS	LM60061	D	14,451	CCF2B100TS61AP21	955	230/460	218.0	95.0	1.15	34.92	C, CN
	1800	405TS	LM32819	✓	14,110	SF4B100TS61Y	1052	230/460	244.0	95.4	1.15	35.40	S, US
	1800	405T	170087.60	✓	14,817	C405T17FB4	1090	208-230/460	225.0	95.4	1.15	37.91	C, CN
	1800	405T	199040.00	✓	10,444	C405T17FB1	1375	230/460	224.0	95.4	1.15	42.72	C, CN
	1800	405T	LM13940	✓	14,110	SF4B100T61Y	1052	230/460	244.0	95.4	1.15	38.40	S, US
	1200	444T	170256.60	✓	19,612	C444T11FB6	1457	460	121.0*	95.0	1.25	42.87	C, CN
125	1200	444T	199041.00	✓	16,390	C444T11FB1	2000	230/460	228.0	95.0	1.15	50.79	C, CN
	3600	444TS	171580.60	✓	18,163	C444T34FB8	1373	460	132.0*	95.0	1.25	39.10	C, CN
	3600	444TS	199042.00	✓	15,363	C444T34FB1	1750	460	136.0*	95.0	1.15	47.05	C, CN
	3600	444TS	LM60064	D	17,255	CCF2B125TS64AP21	1950	460	136.0*	95.4	1.25	37.00	C, CN
	1800	444TS	LM32820	C/A	18,862	SF4B125TS64Y	1351	460	146.0*	96.2	1.15	37.83	S, US
	1800	444T	170369.60	✓	19,672	C444T17FB5	1576	460	137.0*	95.4	1.25	42.87	C, CN
	1800	444T	199043.00	✓	16,329	C444T17FB1	1850	460	140.0*	95.4	1.15	50.79	C, CN
	1800	444T	LM13704	✓	18,862	SF4B125T64Y	1351	460	146.0*	96.2	1.15	41.58	S, US
	1800	444T	LM60065	✓	18,689	CCF4B125T64AP21	1950	460	137.0*	95.4	1.15	42.87	C, CN
Three Phase TEFC Motors	1200	445T	170260.60	✓	22,160	C445T11FB5	1596	460	155.0*	95.4	1.25	44.88	C, CN
	1200	445T	199044.00	✓	17,251	C445T11FB1	2050	460	142.0*	95.0	1.15	50.79	C, CN
	1200	445T	LM60066	D	21,052	CCF6B125T64AP21	1316	460	160.0*	95.5	1.15	43.00	C, CN

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* F.L. Amps at 230V

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Three Phase Motors Totally Enclosed Fan Cooled

General Purpose - Standard,
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Three Phase - TEFC - Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 460 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥ Notes
150	3600	445TS	171578.60	✓	22,417	C445T34FB3	1445	460	163.0	95.0	1.15	44.88	C, CN
	3600	445TS	199045.00	✓	16,846	C445T34FB1	2050	460	162.0	95.0	1.15	47.05	C, CN
	3600	445TS	LM60067	D	21,296	CCF2B150T64AP21	1627	460	163.0	95.0	1.15	39.49	C, CN
	1800	445TS	LM32679	C/A	21,878	SF4B150TS64Y	1504	460	168.0	96.2	1.15	39.49	S, US
	1800	445T	170371.60	✓	22,508	C445T17FB8	1627	460	163.0	95.8	1.15	44.88	C, CN
	1800	445T	199046.00	✓	17,753	C445T17FB1	2050	460	165.0	95.8	1.15	50.79	C, CN
	1800	445T	LM13707	✓	21,878	SF4B150T64Y	1531	460	168.0	96.2	1.15	43.58	S, US
	1800	445T	LM60068	D	21,382	CCF4B150T64AP21	2230	460	164.0	95.8	1.15	43.00	C, CN
	1200	447T	171315.60	✓	24,988	C447T11FB1	2230	460	185.0	95.8	1.25	48.00	C, CN
	1200	447T	199047.00	✓	21,040	C447T11FB1	2500	460	170.0	95.8	1.15	55.91	C, CN
	1200	447T	LM60069	D	23,739	CCF6B150T64AP21	1445	460	186.0	96.2	1.15	46.50	C, CN
	200	3600	447TS	✓	25,818	C447T34FB3	2100	460	216.0	95.4	1.25	48.00	C, CN
200	3600	447TS	199048.00	✓	19,666	C447T34FB1	2300	460	215.0	95.4	1.15	52.17	C, CN
	3600	445TS	LM13709	✓	34,298	SF2B200TS64Y	1531	460	211.0	95.4	1.15	39.49	S, US
	3600	447TS	LM60070	D	24,527	CCF2B200T64AP21	2227	460	216.0	95.4	1.15	51.00	C, CN
	1800	447T	170352.60	✓	25,778	C447T17FB8	2785	460	216.0	96.2	1.15	48.00	C, CN
	1800	447T	199049.00	✓	21,386	C447T17FB1	2350	460	225.0	96.2	1.15	55.91	C, CN
	1800	445T	LM13710	✓	27,057	SF4B200T64Y	1531	460	227.0	95.0	1.15	43.58	S, US
	1200	449T	171316.60	✓	32,730	C449T11FB1	2542	460	241.0	96.2	1.25	52.80	C, CN
	1200	449T	199050.00	✓	25,248	C449T11FB1	2900	460	228.0	95.8	1.15	55.91	C, CN
	250	3600	449TS	C/A	34,451	SF2P250TS64Y	2185	460	263.0	95.8	1.15	47.99	S, US
	3600	447TS	LM13556	C/A	32,812	SF2P250TS64Y	1812	460	263.0	95.4	1.15	42.99	S, US
	1800	449T	G151516.60	✓	27,869	C449T17FB3	2541	460	274.0	95.0	1.15	52.80	C, CN
	1800	447T	LM13713	C/A	34,065	SF4B250T64Y	1812	460	282.0	95.4	1.15	47.08	S, US
250	1800	447T	LM13557	✓	28,206	SF4P250T64Y	1812	460	283.0	95.0	1.15	47.08	S, US
	1200	449T	LM30826	C/A	37,143	CCF6P250T64Y	3408	460	300.0	95.4	1.15	51.86	C, US

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TEFC Motors

Single Phase
C Face Motors

Three Phase
ODP Motors

Three Phase
TEFC Motors

Three Phase
C Face Motors

Inverter Duty
Motors

Severe Duty
Motors

Three Phase Motors Totally Enclosed Fan Cooled

General Purpose - Standard,

EPAct and Premium Efficient - Three Phase Motors

Three Phase - TEFC - Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 460 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
300	3600	449TS	LM13715	C/A	51,582	SF2B300TS64Y	2185	460	314.0	95.8	1.15	47.99	S, US
	3600	449TS	LM13559	C/A	40,103	SF2P300TS64Y	2185	460	315.0	95.4	1.15	47.99	S, US
	1800	449TS	LM18347	C/A	29,489	SF4P300TS64Y	2185	460	338.0	95.0	1.15	47.99	S, US
	1800	449T	G151529.60	✓	31,344	C449T17FB9	2558	460	327.0	95.4	1.15	52.80	C, CN
	1800	447T	LM13716	C/A	37,291	SF4B300T64Y	2185	460	352.0	95.8	1.15	47.08	S, US
	1800	449T	LM17953	✓	29,489	SF4P300T64Y	1812	460	338.0	95.4	1.15	52.08	S, US
	1800	447T	LM13560	✓	29,489	SF4P300T64Y	2185	460	353.0	95.4	1.00	47.08	S, US
350	3600	449TS	LM13719	C/A	56,167	SFB350TS64Y	2185	460	370.0	95.8	1.15	47.99	S, US
	3600	449TS	LM13562	C/A	44,476	SF2350TS64Y	2185	460	367.0	95.4	1.00	47.99	S, US
	3600	449TS	LM19577	C/A	50,351	CCF2P350TS64Y	3050	460	380.0	95.4	1.15	48.09	C, US
	1800	449T	G151530.60	✓	32,660	C449T17FB10	2710	460	402.0	95.4	1.15	52.80	C, CN
	1800	449T	LM13563	C/A	30,543	SF4P350T64Y	2185	460	395.0	95.4	1.15	52.08	S, US
400	3600	449TS	LM13721	C/A	68,595	SF2B400TS64Y	2185	460	420.0	95.4	1.00	47.99	S, US
	3600	449TS	LM13564	C/A	54,325	SF2P400TS64Y	2185	460	424.0	94.1	1.00	47.99	S, US
	1800	449T	LM33803	C/A	50,494	CCF4B400T64YE3	3558	460	460.0	96.5	1.15	56.71	C, US
	1800	449T	LM13565	C/A	40,395	SF4P400T64Y	2185	460	447.0	95.4	1.00	52.08	S, US

Green items are Premium Efficient

♥ Note listing on inside back flap

▼ LM Numbers are Lincoln Models

C/A - Check Availability

Specifications are subject to change without notice



View On-line Technical Information



Three Phase Motors Totally Enclosed

Resilient Base Motors - Three Phase General Purpose or Fan & Blower Service

Features:

- Industrial duty designs
- Suitable for belt driven or fan-on-shaft applications
- Ball bearings



Three Phase - Totally Enclosed - Resilient Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
1/2	1800	56	111917.00	√	512	C6T17NR1	25	208-230/460	1.8	78.5	1.15	11.31	S, US, 6, 12
1	1800	56	111918.00	√	576	C6T17FR1	29	208-230/460	3.8	77.0	1.15	12.51	S, US, 6, 13

Note 12 - TENV

♥ Note listing on inside back flap

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ODP Motors

Single Phase
TEFC Motors

Single Phase
C Face Motors

Three Phase
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C Face Motors

Inverter Duty
Motors

Severe Duty
Motors

Three Phase Motors Totally Enclosed Compressor Duty

General Specifications:

Motors designed for air compressor, pump, fan and blower duty applications which require high breakdown torque and rugged mechanical construction.



Mechanical Features:

- Double shielded ball bearings
- Designed for belted loads
- Class F insulation

Three Phase - TEFC - Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥ Notes
3	1800	182T	131463.00	✓	906	C182T17FB32	80	208-230/460	7.8	89.5	1.15	13.96	S, MX
	1800	182T	LM32741	✓	906	SSF4B3T61	77	208-230/460	7.8	89.5	1.15	13.96	S, MX
5	1800	182T	131464.00	✓	996	C184T17FB42	94	208-230/460	12.8	89.5	1.15	15.96	S, MX
	1800	182T	LM33266	✓	996	SSF4B5T61	85	208-230/460	12.6	89.5	1.15	14.96	S, MX
7 1/2	1800	213T	140450.00	✓	1,280	C213T17FB6	144	208-230/460	21.4	91.7	1.25	18.70	S, MX
	1800	213T	LM32805	✓	1,182	SSF4B7.5T6	115	208-230/460	19.4	91.7	1.25	20.23	S, MX
10	1800	215T	140451.00	✓	1,548	C215T17FB18	161	208-230/460	26.6	91.7	1.25	19.70	S, MX
	1800	215T	LM32809	✓	1,460	SSF4B10T6	135	208-230/460	26.0	91.7	1.25	21.48	S, MX
15	1800	254T	170066.60	✓	2,283	C254T17FB10	280	208-230/460	36.0	92.4	1.25	23.19	C, CN
	1800	254T	LM24208	✓	2,550	CCF4B15T6	322	208-230/460	37.5	92.4	1.25	25.27	C, US
20	1800	256T	170007.60	✓	2,856	C256T17FB4	322	208-230/460	49.0	93.0	1.15	24.92	C, CN

Green items are Premium Efficient

♥ Note listing on inside back flap

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C/A - Check Availability

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View On-line Technical Information

Three Phase Motors Totally Enclosed

TENV Motors - Three Phase - Rigid Base



Three Phase - TENV - Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥ Notes
1/6	3600	42	092014.00	C/A	419	C42T34NB2	13	208-230/460	0.7	65.0	1.00	7.56	S, US
	1800	42	092015.00	✓	458	C42T17NB1	14	208-230/460	0.9	61.0	1.00	7.81	S, US
1/4	3600	42	092016.00	C/A	443	C42T34NB3	15	208-230/460	0.9	62.0	1.00	8.06	S, US
	1800	48	100123.00	✓	348	C4T17NB3	16	208-230/460	1.0	78.0	1.15	9.18	S, MX
	1800	S56	101649.00	✓	348	C4T17NH8	16	208-230/460	1.0	78.0	1.15	9.56	S, MX
1/3	3600	48	101013.00	✓	333	C4T34NB3	17	208-230/460	1.2	72.0	1.15	9.06	S, US
	1800	48	100443.00	✓	386	C4T17NB5	19	208-230/460	1.4	78.0	1.15	9.56	S, MX
	1800	S56	102920.00	✓	384	C4T17NH13	20	208-230/460	1.3	77.0	1.15	9.56	S, MX
1/2	3600	56	110143.00	✓	386	C6T34NB1	25	208-230/460	1.5	67.0	1.15	10.38	S, US
	1800	S56	102918.00	✓	448	C4T17NH12	21	208-230/460	1.8	77.0	1.15	10.06	S, MX
3/4	1800	56	114309.00	✓	487	C6T17NB53	30	208-230/460	2.5	80.0	1.15	10.89	S, US
1	1800	143T	121098.00	✓	558	C143T17NB6	35	208-230/460	3.2	80.0	1.15	11.83	S, US
1 1/2	1800	145T	121099.00	✓	584	C145T17NB9	47	208-230/460	4.2	80.0	1.15	13.33	S, US

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♥ Note listing on inside back flap

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Motors

Severe Duty
Motors

Three Phase Motors Totally Enclosed

F2 Conduit Box Mount Motors - TEFC - Three Phase

General Purpose Applications



Three Phase - TEFC - Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	Inverter speed range	♥Notes
3	1800	182T	132237.00	✓	906	C182T17FB50	80	208-230/460	7.8	89.5	1.15	14.96	S, MX	S, MX
5	1800	184T	132236.00	✓	996	C184T17FB62	94	208-230/460	12.8	89.5	1.15	15.96	S, MX	S, MX
7 1/2	1800	213T	140832.00	C/A	1,280	C213T17FB18	154	208-230/460	21.4	91.7	1.25	18.70	S, MX	S, MX

Green items are Premium Efficient

♥ Note listing on inside back flap

Note: For larger F2 mount motors, G150 & 170 Series cast iron motors may be converted to F2 by reassembly.
Contact factory for F2 mounting for Lincoln Brand motors

C/A - Check Availability

Specifications are subject to change without notice



View On-line Technical Information



Three Phase Motors Totally Enclosed

SUB-FHP MOTORS - Inverter Rated - Three Phase

Features:

- Designed with the exclusive inverter rated insulation system (IRIS)
- Provides superior protection against voltage spikes induced by variable frequency drives
- Double shielded motor ball bearings
- Needle bearings in the parallel shaft gearboxes
- Ball bearings in the Right angle (worm) gearboxes
- Steel conduit box provided as standard
- Finished in high gloss hardened black enamel paint

Application Notes:

- Designed with high temperature insulation (Class F) to prevent overheating when operated with a PWM inverter down to a 10:1 speed range from the printed motor's speed range

Three Phase - 230 Volt - Totally Enclosed

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230	♥Notes
1/5	1725	38	M1140171.00	✓	352	CM38T17NK1	7	230	0.4	S, US, 12
1/6	1725	38	M1140173.00	C/A	380	CM38T17NK2	8	230	0.7	S, US, 12
1/4	1725	38	M1140172.00	C/A	408	CM38T17FK3	9	230	1.1	S, US, 13

C/A - Check Availability

Note 12 - TENV

Specifications are subject to change without notice

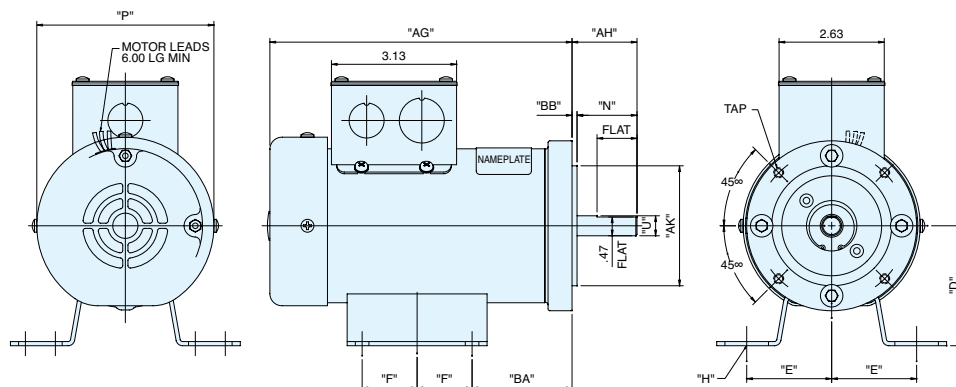
♥ Note listing on inside back flap

38 Frame NEMA C-Face With Base Dimensions

Catalog Number	AG	P	U	AH	BB	AJ	TAP	R	AK	BB	D	BA	E	F	H
M1140171.00	5.14	3.85	0.5	1.63	1	3.75	1/3/16	4.25	3.0	0.1	3.00	2.50	2.125	1.375	11/32 Slot
M1140173.00	6.14	3.85	0.5	1.63	1	3.75	1/3/16	4.25	3.0	0.1	3.00	2.50	2.125	1.375	11/32 Slot
M1140172.00	7.56	4.43	0.5	1.63	1	3.75	1/3/16	4.25	3.0	0.1	3.00	2.50	2.125	1.375	11/32 Slot

Specifications are subject to change without notice

AC 38 48C ALL DIMENSIONS IN INCHES



Both motors only and gearmotors will have inverter rated printed on the nameplate.
UL and CSA recognition for both motors only and gearmotors

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Motors

Three Phase C Face Motors

Three Phase C Face Motors – General Purpose – Open-Drip & Totally Enclosed – 208-230/460V & 460V Rigid Mount – ¼ HP – 400 HP
Steel Frame – Aluminum Frame – Cast Iron Frame



- Standard, EPAct and Premium efficient ratings
- Inverter-rated
- Class B insulation systems – 42, 48 and 56 frames
- Class F insulation system – 140 frame and higher
- Shielded ball bearings for direct coupled applications
- Continuous duty
- Dynamically balanced rotors
- Torques exceed NEMA performance standards
- 1-year warranty on Standard efficient motors
- 2-year warranty on EPAct efficient motors
- 3-year warranty on Premium efficient motors
- UL recognized and CSA certified

Applications:

- Same applications as used on our general purpose ODP and enclosed, three phase motors, only having NEMA C Face mount, which allows direct mounting to a pump or gear reducer or other direct coupled equipment.



Three Phase C Face Motors

Drip-Proof - General Purpose

Three Phase - Drip-Proof - C Face Less Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥ Notes
1/4	1800	S56C	103014.00	✓	312	C4T17DC47	19	208-230/460	1.4	58.0	1.35	9.24	S, MX
1/3	3600	S56C	100375.00	✓	318	C4T34DC2	15	208-230/460	1.4	68.0	1.35	9.31	S, US
	1800	S56C	100048.00	✓	343	C4T17DC1	17	208-230/460	1.6	64.3	1.35	9.49	S, MX
	1800	S56C	102695.00	✓	431	C4T17DC45	22	208-230/460	1.3	77.0	1.25	10.24	S, MX
1/2	3600	S56C	100056.00	✓	340	C4T34DC1	17	208-230/460	1.8	69.0	1.25	9.31	S, US
	1800	S56C	100049.00	✓	396	C4T17DC2	21	208-230/460	2.0	68.0	1.25	9.99	S, MX
	1800	S56C	102200.00	✓	461	C4T17DC39	25	208-230/460	1.8	77.0	1.25	10.74	S, MX
	1200	56C	110434.00	✓	585	C6T11DC1F	26	208-230/460	2.8	66.0	1.15	10.38	S, US
3/4	3600	S56C	100378.00	✓	405	C4T34DC3	20	208-230/460	2.4	79.0	1.25	9.81	S, US
	3600	56C	LM24914	C/A	421	SRD2S0.75TCN61	20	230/460	3.2	74.0	1.25	10.44	S, US
	1800	S56C	100050.00	✓	440	C4T17DC3	24	208-230/460	2.8	75.0	1.25	10.49	S, MX
	1800	56C	LM24915	✓	473	SRD4S0.75TCN61	20	230/460	3.0	75.5	1.15	10.44	S, US
	1800	56C	114934.00	✓	494	C6T17DC68	29	208-230/460	2.4	81.5	1.25	10.86	S, US
	1200	143TC	120063.00	✓	635	C143T11DC1	20	208-230/460	3.0	80.0	1.15	12.12	S, US
	1200	56C	116728.00	C/A	635	C6T11DC11	35	208-230/460	3.4	75.5	1.15	10.88	S, US
1	3600	56C	110111.00	✓	465	C6T34DC7	22	208-230/460	3.2	77.0	1.25	9.88	S, US
	1800	143TC	G120172.00	✓	544	C143T17DC13	30	208-230/460	3.1	82.5	1.15	11.68	S, US
	1800	56C	110043.00	✓	481	C6T17DC1	22	208-230/460	4.2	78.5	1.15	10.38	S, US
	1800	S56C	LM24917	✓	510	SRD4S1TCN61	22	230/460	3.4	76.5	1.15	11.30	S, MX
	1800	56C	116740.00	✓	717	C6T17DC80	32	208-230/460	3.4	85.5	1.25	11.68	S, US
	1800	143TC	121064.00	✓	717	C143T17DC12	32	208-230/460	3.4	85.5	1.25	12.12	S, US
	1200	145TC	G120082.00	✓	750	C145T11DC5	35	208-230/460	3.6	80.0	1.15	12.62	S, US
1 1/2	3600	143TC	G121668.00	✓	592	C143T34DC5	35	208-230/460	4.0	82.5	1.50	11.78	S, US
	3600	56C	110437.00	✓	539	C6T34DC12	27	208-230/460	4.2	81.5	1.15	10.84	S, US
	1800	145TC	G120081.00	✓	583	C145T17DC42	37	208-230/460	4.4	84.0	1.15	12.12	S, US
	1800	56C	110044.00	✓	560	C6T17DC2	27	208-230/460	5.6	78.5	1.15	10.88	S, US
	1800	56C	116741.00	✓	748	C6T17DC81	36	208-230/460	5.6	86.5	1.25	12.68	S, US
	1800	143TC	121063.00	✓	748	C145T17DC30	36	208-230/460	5.6	86.5	1.25	13.12	S, US
	1200	182TC	G132250.00	C/A	784	C182T11DC4	60	208-230/460	5.7	84.0	1.15	12.70	S, MX

Green items are Premium Efficient

▼ LM Numbers are Lincoln Models

C/A - Check Availability

Specifications are subject to change without notice

♥ Note listing on inside back flap

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Severe Duty
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Three Phase C Face Motors

Drip-Proof - General Purpose

Three Phase - Drip-Proof - C Face Less Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥ Notes
2	3600	143TC	G121670.00	✓	664	C145T34DC12	45	208-230/460	5.2	84.0	1.15	12.18	S, US
	3600	56C	113894.00	✓	624	C6T34DC63	31	208-230/460	5.6	82.5	1.15	11.34	S, US
	3600	56HC	LM24921	✓	650	SRD2S2TCN61	25	230/460	6.2	80.0	1.15	10.44	S, US
	1800	145TC	G120035.00	✓	637	C145T17DC41	39	208-230/460	6.4	84.0	1.15	12.69	S, US
	1800	56C	115553.00	✓	599	C6T17DC77	32	208-230/460	6.2	78.5	1.15	11.19	S, US
	1800	56C	116742.00	✓	841	C6T17DC82	41	208-230/460	5.8	86.5	1.25	13.18	S, US
	1800	145TC	121071.00	✓	853	C145T17DC31	41	208-230/460	5.8	86.5	1.25	13.62	S, US
	1200	184TC	G132059.00	C/A	815	C184T1DC5	81	208-230/460	7.2	85.5	1.15	13.63	S, MX
3	3600	145TC	G121187.00	✓	684	C145T34DC10	45	208-230/460	7.6	84.0	1.15	13.63	S, US
	3600	145TC	LM32793	✓	792	SSD2P3TCN61	33	230/460	7.6	84.0	1.15	11.99	S, US
	3600	56C	114420.00	✓	663	C6T34DC68	37	208-230/460	7.6	84.0	1.15	11.84	S, US
	3600	56C	LM24923	C/A	694	SRD2S3TCN61	31	230/460	8.4	84.0	1.15	11.44	S, US
	1800	182TC	G131489.00	✓	737	C182T17DC28	57	208-230/460	8.4	86.5	1.15	12.69	S, MX
	1800	182TC	131518.00	✓	902	C182T17DC20	75	208-230/460	7.8	89.5	1.25	13.20	S, MX
	1200	213TC	G140765.00	C/A	1,059	C213T11DC5	140	208-230/460	11.6	86.5	1.15	13.75	S, MX
	5	3600	145TC	✓	722	C145T34DC11	47	208-230/460	12.4	85.5	1.15	13.75	S, US
Three Phase ODP Motors	3600	182TC	G131779.00	✓	757	C182T34DC11	64	208-230/460	12.2	85.5	1.15	13.20	S, MX
	1800	184TC	G131490.00	✓	775	C184T17DC27	69	208-230/460	13.2	87.5	1.15	13.69	S, MX
	1800	184TC	LM24234	✓	779	SSD4P5TCN61	93	230/460	13.2	87.5	1.25	15.78	S, MX
	1800	184TC	131517.00	✓	1,059	C184T17DC16	96	208-230/460	12.8	89.5	1.25	15.20	S, MX
	7 1/2	3600	184TC	✓	1,106	C184T34DC9	78	208-230/460	17.6	87.5	1.15	14.70	S, MX
Three Phase TEFC Motors	1800	213TC	G140580.00	✓	1,026	C213T17DC11	144	208-230/460	20.6	88.5	1.15	15.75	S, MX
	1800	213TC	140483.00	✓	1,173	C213T17DC7	132	208-230/460	20.6	91.0	1.25	16.25	S, MX
	10	3600	213TC	✓	1,261	C213T34DC1	138	208-230/460	23.4	88.5	1.15	16.53	S, MX
Three Phase C Face Motors	1800	215TC	G140108.00	✓	1,262	C215T17DC8	132	208-230/460	28.0	89.5	1.15	16.75	S, MX
	1800	215TC	140485.00	C/A	1,326	C213T17DC5	144	208-230/460	26.8	91.9	1.25	17.25	S, MX
	15	3600	215TC	✓	1,747	C215T34DC2	145	208-230/460	34.0	89.5	1.15	19.28	S, MX
Three Phase C Face Motors	1800	254TC	G151682.60	✓	1,848	C254T17DC3	265	208-230/460	37.6	91.0	1.15	21.32	C, CN
	20	3600	254TC	✓	2,223	C254T34DC3	258	208-230/460	46.6	90.2	1.15	21.38	C, CN
	1800	256TC	G151684.60	✓	2,258	C256T17DC5	307	208-230/460	48.0	91.0	1.15	23.03	C, CN
Three Phase C Face Motors	25	3600	256TC	✓	2,584	C256T34DC2	292	208-230/460	57.0	91.0	1.15	22.60	C, CN
	1800	284TC	G151686.60	✓	2,752	C284T17DC2	388	208-230/460	59.6	91.7	1.15	23.54	C, CN
	30	3500	284TSC	✓	3,014	C283T34DC3	373	208-230/460	70.4	91.0	1.15	25.00	C, CN

Green items are Premium Efficient

♥ Note listing on inside back flap

▼ LM Numbers are Lincoln Models

C/A - Check Availability

Specifications are subject to change without notice



View On-line Technical Information



Three Phase C Face Motors

Drip-Proof - General Purpose

Three Phase - Drip-Proof - C Face With Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
1/3	1800	S56C	100599.00	✓	390	C4T17DK1	18	208-230/460	1.6	64.3	1.35	9.49	S, MX
	1800	S56C	LM24277	✓	371	SRDAS0.33TC61	15	230/460	2.2	67.0	1.35	9.80	S, MX
	1800	S56C	103021.00	✓	453	C4T17DK9	23	208-230/460	1.3	77.0	1.25	10.24	S, MX
1/2	3600	S56C	100600.00	✓	371	C4T34DK1	17	208-230/460	2.4	69.0	1.25	9.31	S, US
	1800	S56C	100601.00	✓	447	C4T17DK2	23	208-230/460	2.2	68.0	1.15	9.99	S, MX
	1800	S56C	103022.00	✓	478	C4T17DK10	26	208-230/460	1.8	77.0	1.25	10.74	S, MX
3/4	3600	S56C	102971.00	✓	427	C4T34DK9	21	208-230/460	2.4	79.0	1.25	9.85	S, US
	3600	56C	LM24882	C/A	467	SRD2S0.75TC61	21	230/460	3.2	74.0	1.25	10.44	S, US
	1800	S56C	100602.00	✓	490	C4T17DK3	25	208-230/460	2.8	75.0	1.25	10.49	S, MX
1	1800	S56C	LM24267	✓	495	SRD4S0.75TC61	20	230/460	2.8	75.5	1.25	10.80	S, MX
	1800	56C	116762.00	✓	506	C6T17DK30	30	208-230/460	2.4	81.5	1.25	10.86	S, US
	3600	56C	116784.00	✓	488	C6T34DK16	23	208-230/460	3.2	77.0	1.15	9.84	S, US
1 1/2	1800	56C	110901.00	✓	575	C6T17DK3	28	208-230/460	4.2	78.5	1.15	10.38	S, US
	1800	S56C	LM24346	✓	510	SRD4S1TC61	22	230/460	3.4	76.5	1.15	11.30	S, MX
	1800	56C	116763.00	✓	724	C6T17DK33	33	208-230/460	3.4	85.5	1.25	11.68	S, US
2	1800	143TC	121674.00	✓	724	C143T17DK5	34	208-230/460	3.2	85.5	1.25	12.12	S, US, ♣
	1800	143TC	121935.00	D	666	C143T17DK6	34	208-230/460	3.2	85.5	1.25	12.12	S, US
	3600	56C	116785.00	✓	577	C6T34DK17	28	208-230/460	4.2	81.5	1.15	10.84	S, US
2 1/2	1800	56C	110902.00	✓	604	C6T17DK4	29	208-230/460	5.6	78.5	1.15	10.88	S, US
	1800	56HC	LM24889	✓	538	SRD4S1.5TC61	28	230/460	4.8	80.0	1.15	10.94	S, US, 6
	1800	56C	116764.00	✓	750	C6T17DK32	37	208-230/460	5.6	86.5	1.15	12.68	S, US
3	1800	145TC	121675.00	✓	750	C145T17DK22	37	208-230/460	5.6	86.5	1.25	13.12	S, US
	3600	56C	114218.00	✓	716	C6T34DK8	34	208-230/460	5.6	82.5	1.15	11.40	S, US
	1800	56HC	116630.00	✓	635	C6T17DK28	32	208-230/460	6.2	78.5	1.15	11.38	S, US, 6
4	1800	56HC	LM24345	✓	639	SRD4S2TC61	36	230/460	6.2	81.5	1.15	11.94	S, US, 6
	1800	56HC	116765.00	✓	848	C6T17DK31	42	208-230/460	5.8	86.5	1.25	13.18	S, US, 6
	1800	145TC	121676.00	✓	848	C145T17DK21	42	208-230/460	5.8	86.5	1.25	13.62	S, US

Green items are Premium Efficient

D - Item to be Obsoleted once inventory is depleted

▼ LM Numbers are Lincoln Models

C/A - Check Availability

♣ - 121674.00 has an oversized conduit box

Specifications are subject to change without notice

♥ Note listing on inside back flap

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View On-line Technical Information



Tech Information

Single Phase
ODP Motors

Single Phase
TEFC Motors

Single Phase
C Face Motors

Three Phase
ODP Motors

Three Phase
TEFC Motors

Three Phase
C Face Motors

Inverter Duty
Motors

Severe Duty
Motors

Three Phase C Face Motors

Drip-Proof - General Purpose

Three Phase - Drip-Proof - C Face With Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥ Notes
3	3600	56HC	LM24894	C/A	651	SRD2S3TC61	33	230/460	8.4	84.0	1.15	11.44	S, US, 6
	3600	145TC	121928.00	✓	781	C145T34DK16	45	230/460	7.2	85.5	1.25	13.76	S, US
	1800	56HCZ	116631.00	✓	734	C6T17DK29	38	208-230/460	8.6	82.5	1.15	13.62	S, US, 6
	1800	182TC	132081.00	✓	918	C182T17DK17	76	208-230/460	7.8	89.5	1.25	14.20	S, MX
5	1800	182TC	199735.00	✓	745	C182T17DK42	77	230/460	7.6	90.2	1.15	14.45	S, CN
	3600	182TC	132242.00	✓	844	C184T34DK20	92	208-230/460	12.2	86.5	1.15	15.19	S, MX
	3600	182TC	199736.00	✓	783	C182T34DK18	128	230/460	12.4	87.5	1.15	14.45	S, CN
	1800	184TC	132082.00	✓	1,076	C184T17DK26	97	208-230/460	12.8	89.5	1.25	15.20	S, MX
7 1/2	1800	184TC	199737.00	✓	875	C184T17DK42	88	230/460	12.8	89.5	1.15	15.46	S, CN
	3600	184TC	132244.00	✓	1,275	C184T34DK21	106	208-230/460	17.6	88.5	1.15	16.19	S, MX
	3600	184TC	199738.00	✓	950	C184T34DK26	145	230/460	18.0	88.5	1.15	15.46	S, CN
	1800	213TC	140767.00	C/A	1,183	C213T17DK7	132	208-230/460	20.8	91.0	1.25	16.25	S, MX
10	1800	213TC	170170.60	✓	1,149	C213T17DK15	165	208-230/460	19.8	91.0	1.15	16.38	C, CN
	1800	213TC	199739.00	✓	1,095	C213T17DK45	162	230/460	19.0	91.7	1.15	18.10	S, CN
	3600	213TC	141111.00	✓	1,414	C213T34DK6	160	208-230/460	23.4	89.5	1.15	17.30	S, MX
	3600	213TC	LM32778	C/A	1,489	SSD2B10TC61	138	230/460	26.8	89.5	1.25	17.25	S, MX
15	3600	213TC	170171.60	✓	1,534	C213T3DK7	195	208-230/460	27.6	89.5	1.15	16.38	C, CN
	3600	213TC	199740.00	✓	1,268	C213T34DK47	152	230/460	23.0	89.5	1.15	18.10	S, CN
	1800	215TC	140768.00	✓	1,342	C215T17DK6	144	208-230/460	26.8	91.9	1.25	17.25	S, MX
	1800	215TC	LM32649	✓	1,547	SSD4B10TC61	138	230/460	25.0	91.7	1.25	19.28	S, MX
20	1800	215TC	170172.60	✓	1,501	C215T17DK13	200	208-230/460	25.6	91.7	1.15	18.62	C, CN
	1800	215TC	199741.00	✓	1,285	C215T17DK45	223	230/460	25.6	91.7	1.15	18.10	S, CN
	3600	215TC	170173.60	✓	2,119	C215T34DK9	200	208-230/460	34.6	90.2	1.15	17.87	C, CN
	3600	215TC	141119.00	✓	1,827	C215T34DK3	170	208-230/460	35.0	91.0	1.15	18.55	S, MX
25	3600	215TC	199742.00	✓	1,793	C215T34DK46	187	230/460	35.0	91.0	1.15	18.10	S, CN
	1800	254TC	170175.60	✓	2,144	C254T17DK7	280	208-230/460	37.0	93.0	1.15	20.94	C, CN
	1800	254TC	199743.00	✓	2,090	C254T17DK11	314	230/460	36.5	93.0	1.15	23.00	C, CN
	1800	254TC	LM32781	C/A	2,431	CCD4B15TC61	326	230/460	37.0	93.6	1.25	23.31	C, US
30	3600	254TC	170070.60	✓	2,562	C254T34DK6	280	208-230/460	46.6	91.0	1.15	20.94	C, CN
	3600	254TC	199744.00	✓	2,262	C254T34DK8	305	230/460	45.0	91.7	1.15	23.00	C, CN
	1800	256TC	170071.60	✓	2,609	C256T17DK6	340	208-230/460	51.0	93.0	1.15	22.60	C, CN
	1800	286TC	LM32783	✓	3,608	SSD4B20TC61	233	230/460	48.0	93.0	1.25	29.19	S, US
40	1800	256TC	199745.00	✓	2,509	C256T17DK7	365	230/460	48.0	93.0	1.15	24.60	C, CN

Green items are Premium Efficient

♥ Note listing on inside back flap

▼ LM Numbers are Lincoln Models

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C/A - Check Availability

Specifications are subject to change without notice



View On-line Technical Information



Three Phase C Face Motors

Drip-Proof - General Purpose

Three Phase - Drip-Proof - C Face With Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
25	3600	256TC	171688.60	✓	3,206	C256T34DK6	383	208-230/460	57.0	92.5	1.15	23.03	C, CN
	3600	256TSC	199746.00	✓	2,652	C256T34DK7	321	230/460	55.0	91.7	1.15	24.60	C, CN
	1800	284TC	170073.60	✓	3,296	C284T17DK4	404	208-230/460	59.6	93.6	1.15	23.54	C, CN
	1800	284TSC	LM32785	✓	3,495	CCD4B25TSC61Y	447	230/460	62.0	93.6	1.25	23.57	C, US
	1800	284TC	199747.00	✓	2,917	C284T17DK5	430	230/460	62.0	93.6	1.15	25.71	C, CN
	1200	324TC	LM14535	✓	5,614	SD6B25TC61Y	479	230/460	65.0	93.0	1.25	28.00	S, US
30	3600	284TSC	LM17382	✓	5,736	SD2B30TSC61Y	355	230/460	67.0	93.0	1.25	21.78	S, US
	3600	284TSC	199748.00	✓	3,263	C284T34DK3	401	230/460	66.5	91.7	1.15	24.41	C, CN
	1800	286TC	171377.60	✓	3,773	C286T17DK5	471	208-230/460	71.0	94.1	1.15	25.00	C, CN
	1800	286TSC	LM32786	✓	4,048	CCD4B30TSC61Y	400	230/460	74.0	94.1	1.25	25.44	C, US
	1800	286TC	199749.00	✓	3,524	C286T17DK6	488	230/460	74.0	94.1	1.15	27.09	C, CN
40	3600	286TSC	LM17384	✓	7,497	SD2B40TSC61Y	406	230/460	90.0	93.6	1.25	23.28	S, US
	3600	286TSC	199750.00	✓	3,916	C286T34DK3	456	230/460	89.0	92.4	1.15	25.79	C, CN
	1800	324TC	170378.60	✓	4,782	C324T17DK10	560	208-230/460	96.0	94.1	1.15	26.02	C, CN
	1800	324TC	LM13837	C/A	8,153	SD4B40TC61Y	479	230/460	103.0	94.1	1.25	25.91	S, US
	1800	324TC	199751.00	✓	4,103	C324T17DK11	587	230/460	95.0	94.5	1.15	28.55	C, CN
50	3600	324TSC	LM13838	✓	7,536	SD2B50TSC61Y	479	230/460	110.0	94.1	1.25	24.41	S, US
	3600	324TSC	199752.00	✓	4,765	C324T34DK3	554	230/460	113.0	93.0	1.15	27.05	C, CN
	1800	326TC	170379.60	✓	5,663	C326T17DK4	614	208-230/460	118.0	94.5	1.15	27.52	C, CN
	1800	326TC	LM13839	✓	8,157	SD4B50TC61Y	479	230/460	130.0	94.5	1.25	27.41	S, US
	1800	326TSC	LM32655	✓	8,157	SD4B50TSC61Y	532	230/460	131.0	94.5	1.25	25.91	S, US
	1800	326TC	199753.00	✓	4,719	C326T17DK5	716	230/460	118.0	94.5	1.15	29.73	C, CN
60	3600	326TSC	LM13840	C/A	7,258	SD2B60TSC61Y	535	230/460	136.0	93.6	1.25	25.91	S, US
	3600	326TSC	199754.00	✓	5,711	C326T34DK1	597	230/460	134.0	93.6	1.15	28.23	C, CN
	1800	364TC	171689.60	✓	7,108	C364T17DK2	1114	208-230/460	139.0	95.0	1.15	28.01	C, CN
	1800	364TSC	LM32787	✓	10,927	SD4B60TSC61Y	724	230/460	140.0	94.5	1.25	28.35	S, US
	1800	364TC	LM15570	C/A	10,927	SD4B60TC61Y	724	230/460	140.0	95.0	1.25	28.35	S, US
	1800	364TC	199755.00	✓	6,331	C364T17DK5	1011	230/460	139.0	95.0	1.15	31.69	C, CN
75	3600	364TSC	LM15569	✓	11,582	SD2B75TSC61Y	724	230/460	164.0	95.0	1.25	26.27	S, US
	3600	364TSC	199756.00	✓	7,508	C364T34DK1	943	230/460	166.0	93.6	1.15	29.57	C, CN
	1800	365TC	171690.60	✓	8,633	C365T17BK2	1138	208-230/460	172.0	95.0	1.15	31.18	C, CN
	1800	365TSC	LM32656	✓	10,891	SD4B75TSC61Y	775	230/460	176.0	95.0	1.25	27.27	S, US
	1800	365TC	199816.00	✓	6,670	C365T17DK3	1036	230/460	174.0	95.0	1.15	33.27	C, CN
100	3600	365TSC	LM15572	C/A	11,899	SD2B100TSC61Y	775	230/460	110.0	95.4	1.25	27.27	S, US
	3600	365TSC	199758.00	✓	9,185	C365T34DK1	1022	230/460	222.0	93.6	1.15	31.14	C, CN
	1800	404TC	171691.60	✓	10,988	C404T17DK2	1141	208-230/460	225.0	95.4	1.15	32.76	C, CN
	1800	404TSC	LM32788	✓	11,754	SD4B100TSC1Y	898	230/460	130.0	95.4	1.25	29.16	S, US
	1800	404TC	199759.00	✓	9,026	C404T17DK3	1033	230/460	226.0	95.4	1.15	37.20	C, CN
125	3600	404TSC	LM17388	C/A	15,236	SD2B125TSC61Y	898	230/460	138.0	95.0	1.25	29.16	S, US
	1800	405TSC	LM32657	✓	12,271	SD4B125TSC61Y	974	230/460	153.0	95.4	1.25	30.66	S, US
	1800	405TC	LM17389	C/A	12,271	SD4B125TC61Y	974	230/460	153.0	95.4	1.25	33.66	S, US
150	3600	405TSC	LM17390	C/A	17,932	SD2B150TSC61Y	974	230/460	169.0	94.1	1.25	30.66	S, US
	1800	444TSC	LM32789	✓	15,722	SD4B150TSC64Y	1298	460	170.0*	95.8	1.25	33.50	S, US
200	3600	444TSC	LM13795	C/A	21,978	SD2B200TSC64Y	1298	460	216.0*	95.8	1.25	33.50	S, US
	1800	445TSC	LM32677	✓	19,345	SD4B200TSC64Y	1470	460	233.0*	96.2	1.25	35.50	S, US

Green items are Premium Efficient

♥ Note listing on inside back flap
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* F.L. Amps at 460V

▼ LM Numbers are Lincoln Models

C/A - Check Availability

Specifications are subject to change without notice

View On-line Technical Information



Tech Information

Single Phase
ODP Motors

Single Phase
TEFC Motors

Single Phase
C Face Motors

Three Phase
ODP Motors

Three Phase
TEFC Motors

Three Phase
C Face Motors

Inverter Duty
Motors

Severe Duty
Motors

Three Phase C Face Motors

Totally Enclosed - General Purpose

Three Phase - Totally Enclosed - C Face Less Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥ Notes
1/6	1800	48CZ	102662.00	✓	323	C4T17FC31	15	208-230/460	0.7	71.0	1.00	9.44	S, MX
1/4	3600	48CZ	101965.00	✓	424	C4T34NC11	15	208-230/460	1.0	67.0	1.00	9.03	S, US, 12
	1800	48CZ	101966.00	✓	366	C4T17NC35	18	208-230/460	1.0	78.0	1.15	9.31	S, MX, 12
	1800	48CZ	101981.00	✓	366	C4T17FC19	17	208-230/460	1.4	58.0	1.15	8.94	S, MX
	1800	S56C	101648.00	✓	359	C4T17NC28	17	208-230/460	1.0	78.0	1.15	9.56	S, MX, 12
	1800	S56C	101767.00	✓	359	C4T17FC9	19	208-230/460	1.4	58.0	1.15	9.69	S, MX
	1800	56C	LM24964	✓	381	SRF4S0.25TCN61	14	230/460	1.1	71.0	1.15	11.32	S, US
1/3	3600	56C	110446.00	✓	357	C6T34NC2	20	208-230/460	1.2	77.0	1.15	9.90	S, US, 12
	1800	48CZ	102664.00	✓	373	C4T17FC30	20	208-230/460	1.6	64.3	1.15	9.19	S, MX
	1800	S56C	101769.00	✓	386	C4T17FC10	20	208-230/460	1.6	64.3	1.15	9.69	S, MX
	1800	S56C	LM24093	✓	412	SRF4S0.33TCN61	15	230/460	1.6	65.5	1.15	10.19	S, MX
	1800	S56C	102863.00	✓	395	C4T17NC47	19	208-230/460	1.3	77.0	1.15	9.56	S, MX, 12
	1800	S56C	102696.00	✓	540	C4T17FC33	22	208-230/460	1.3	77.0	1.25	10.19	S, MX
	1200	48C	101291.00	✓	601	C4T11NC1	20	208-230/460	1.8	73.0	1.00	9.56	S, MX
	1200	56C	113311.00	✓	601	C6T11FC16	22	208-230/460	1.6	65.0	1.15	10.81	S, US
	1200	56C	LM24858	✓	629	SRF6S0.33TCN61	21	230/460	2.2	62.0	1.15	11.32	S, MX
1/2	3600	48C	100449.00	✓	417	C4T34NC4	23	208-230/460	1.6	67.0	1.00	10.06	S, US, 12
	3600	56C	110144.00	✓	417	C6T34NC1	25	208-230/460	1.6	82.5	1.15	10.40	S, US, 12
	3600	56C	114176.00	✓	417	C6T34FC42	19	208-230/460	2.0	72.0	1.15	10.31	S, US
	1800	48CZ	100486.00	✓	470	C4T17NC11	24	208-230/460	1.6	78.0	1.00	10.31	S, MX, 12
	1800	48CZ	102666.00	✓	450	C4T17FC32	24	208-230/460	2.0	73.0	1.15	9.69	S, MX
	1800	S56C	102861.00	✓	468	C4T17NC46	23	208-230/460	1.8	77.0	1.15	10.06	S, MX, 12
	1800	S56C	102860.00	✓	450	C4T17FC40	19	208-230/460	2.0	73.0	1.15	10.19	S, MX
	1800	S56C	LM24083	✓	502	SRF4S0.5TCN61	17	230/460	2.2	70.0	1.15	10.69	S, MX
	1800	S56C	101780.00	✓	579	C4T17FC12	25	208-230/460	1.8	77.0	1.15	10.69	S, MX
	1200	56C	110163.00	✓	650	C6T11FC1	25	208-230/460	2.4	70.0	1.15	11.31	S, US
	1200	56C	LM24128	✓	677	SRF6S0.5TCN61	23	230/460	2.7	68.0	1.15	11.82	S, MX
	900	143TC	LM24965	✓	1,030	SSF8S0.5TCN61	31	230/460	2.6	66.0	1.15	13.37	S, US
3/4	3600	56C	110448.00	✓	437	C6T34FC9	21	208-230/460	2.4	75.5	1.15	10.81	S, US
	3600	56C	LM24151	✓	454	SRF2S0.75TCN61	22	230/460	3.2	74.0	1.15	11.82	S, US
	1800	56C	110047.00	✓	487	C6T17FC1	22	208-230/460	2.8	77.0	1.15	10.81	S, US
	1800	S56C	LM24077	✓	521	SRF4S0.75TCN61	21	230/460	2.8	75.5	1.15	11.19	S, MX
	1800	56C	114213.00	✓	623	C6T17FC114	27	208-230/460	2.7	81.5	1.15	11.31	S, US
	1200	143TC	120097.00	✓	681	C143T11FC1	32	208-230/460	3.0	80.0	1.15	10.88	S, US
	1200	56C	112378.00	✓	681	C6T11FC10	29	208-230/460	3.0	75.5	1.15	11.81	S, US
	900	145TC	LM24967	✓	1,173	SSF8S0.75TCN61	49	230/460	4.2	70.0	1.15	14.87	S, US

▼ LM Numbers are Lincoln Models

♥ Note listing on inside back flap

Note 12 - TENV

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Specifications are subject to change without notice



View On-line Technical Information



Three Phase C Face Motors

Totally Enclosed - General Purpose

Tech Information

Three Phase - Totally Enclosed - C Face Less Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
1	3600	56C	110112.00	✓	513	C6T34FC6	21	208-230/460	3.2	77.0	1.15	10.81	S, US
	3600	56C	LM24139	✓	538	SRF2S1TCN61	24	230/460	3.7	74.0	1.15	11.82	S, US
	3600	56C	116748.00	✓	693	C6T34FC97	29	208-230/460	2.8	80.0	1.25	11.31	S, US
	1800	143TC	G120024.00	✓	591	C143T17FC23	34	208-230/460	3.1	82.5	1.15	11.28	S, US
	1800	143TC	LM24148	✓	642	SSF4P1TCN61	28	230/460	3.6	82.5	1.25	12.87	S, MX
	1800	56C	110048.00	✓	520	C6T17FC2	24	208-230/460	3.8	77.0	1.15	11.31	S, US
	1800	56C	LM24080	✓	556	SRF3S1TCN61	27	230/460	3.6	77.0	1.15	12.32	S, MX
	1800	56C	114638.00	✓	866	C6T17FC132	34	208-230/460	3.4	85.5	1.15	12.81	S, US
	1800	143TC	121067.00	✓	866	C143T17FC16	36	208-230/460	3.4	85.5	1.15	13.25	S, US
	1200	145TC	G120098.00	✓	733	C145T11FC9	35	208-230/460	3.6	80.0	1.15	12.28	S, US
	1200	145TC	LM32846	✓	799	SSF6P1TCN61	33	230/460	3.6	82.5	1.15	12.50	S, US
	1200	56C	112379.00	✓	668	C6T11FC11	32	208-230/460	4.0	77.0	1.15	12.31	S, US
	1200	56HC	LM24130	✓	698	SRF6S1TCN61	33	230/460	4.0	78.5	1.15	12.82	S, MX
	1200	56C	116749.00	✓	910	C6T11FC29	47	208-230/460	3.8	82.5	1.25	13.75	S, US
1 1/2	3600	143TC	G120105.00	✓	644	C143T34FC18	27	208-230/460	4.0	82.5	1.15	11.78	S, US
	3600	56C	110192.00	✓	566	C6T34FC5	28	208-230/460	4.2	81.5	1.15	11.81	S, US
	3600	56C	LM24096	✓	590	SRF2S1.5TCN61	26	230/460	4.6	80.0	1.15	13.82	S, US
	3600	56C	116750.00	✓	787	C6T34FC98C	33	208-230/460	4.0	84.0	1.25	11.98	S, US
	1800	145TC	G120037.00	✓	617	C145T17FC62	36	208-230/460	4.4	84.0	1.15	12.13	S, US
	1800	145TC	LM24149	✓	605	SSF4P1.5TCN61	31	230/460	4.4	84.0	1.25	14.37	S, MX
	1800	56C	110125.00	✓	550	C6T17FC3	29	208-230/460	5.0	78.5	1.15	11.81	S, US
	1800	56C	LM24112	✓	590	SRF4S1.5TCN61	29	230/460	4.8	80.0	1.15	12.32	S, MX
	1800	56C	116743.00	✓	913	C6T17FC209	41	208-230/460	4.8	86.5	1.25	13.31	S, US
	1800	145TC	121066.00	✓	913	C145T17FC37	41	208-230/460	4.8	86.5	1.15	13.75	S, US
	1200	182TC	G132249.00	✓	856	C182T11FC4	82	208-230/460	5.6	85.5	1.15	14.96	S, MX
	1200	56C	113634.00	✓	761	C6T11FC18	39	208-230/460	5.7	77.0	1.15	13.31	S, US
2	3600	145TC	G120061.00	✓	710	C145T34FC38	44	208-230/460	5.2	84.0	1.15	11.78	S, US
	3600	145TC	LM32678	✓	771	SSF2P2TCN61	45	230/460	5.2	84.0	1.15	13.37	S, US
	3600	56C	111273.00	✓	644	C6T34FC22	36	208-230/460	5.6	82.5	1.15	12.31	S, US
	3600	56C	LM24132	✓	673	SRF2S2TCN61	29	230/460	6.0	82.5	1.15	12.32	S, US
	3600	56C	116751.00	✓	910	C6T34FC94	44	208-230/460	4.8	85.5	1.25	14.25	S, US
	1800	145TC	G120038.00	✓	634	C145T17FC105	44	208-230/460	5.6	84.0	1.15	12.12	S, US
	1800	145TC	LM24125	✓	697	SSF4P2TCN61	39	230/460	5.6	84.0	1.25	13.87	S, MX
	1800	56C	110451.00	✓	585	C6T17FC9	34	208-230/460	6.2	81.5	1.15	12.81	S, US
	1800	56C	LM24084	✓	629	SRF4S2TCN61	39	230/460	5.8	82.5	1.15	13.82	S, MX
	1800	56C	116744.00	✓	959	C6T17FC210	45	208-230/460	5.8	86.5	1.25	13.82	S, US
	1800	145TC	121065.00	✓	959	C145T17FC38	45	208-230/460	5.8	86.5	1.25	14.26	S, US
	1200	184TC	G131525.00	✓	933	C184T11FC10	75	208-230/460	7.4	86.5	1.15	13.97	S, MX

Green items are Premium Efficient

▼ LM Numbers are Lincoln Models

Specifications are subject to change without notice

♥ Note listing on inside back flap

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Single Phase
ODP Motors

Single Phase
TEFC Motors

Single Phase
C Face Motors

Three Phase
ODP Motors

Three Phase
TEFC Motors

Three Phase
C Face Motors

Inverter Duty
Motors

Severe Duty
Motors

View On-line Technical Information



Three Phase C Face Motors

Totally Enclosed - General Purpose

Three Phase - Totally Enclosed - C Face Less Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
3	3600	145TC	G120993.00	✓	803	C145T34FC39	60	208-230/460	8.4	85.5	1.15	13.42	S, US
	3600	145TC	LM32848	✓	879	SSF2S3TCN61	40	208-230/460	7.6	85.5	1.15	13.42	S, US
	3600	56C	111630.00	✓	732	C6T34FC28	37	208-230/460	7.6	84.0	1.15	12.81	S, US
	3600	182TC	G131513.00	✓	886	C182T34FC6	55	208-230/460	8.0	84.0	1.15	13.97	S, MX
	3600	182TC	199082.00	✓	1,006	C182T34FC1	83	230/460	7.6	86.5	1.15	15.75	S, CN
	1800	182TC	G131491.00	✓	786	C182T17FC35	67	208-230/460	8.2	87.5	1.15	13.96	S, MX
	1800	182TC	199083.00	✓	1,013	C182T17FC1	87	230/460	7.8	90.2	1.15	15.75	S, CN
	1800	182TC	LM16298	D	895	AAF4P3TCN61	91	230/460	8.4	87.5	1.25	14.94	A, US
	1800	182TC	LM33574	✓	851	AAF4P3TCN61AP26	91	230/460	8.4	87.5	1.25	14.94	A, MX
	1800	56C	113890.00	✓	781	C6T17FC91	43	208-230/460	8.6	82.5	1.00	13.81	S, US
	1800	182TC	LM33337	✓	786	SSF4P3TCN61	67	230/460	8.2	87.5	1.15	13.96	S, MX
	1800	182TC	131503.00	✓	1,028	C182T17FC26	72	208-230/460	7.8	89.5	1.15	14.96	S, MX
1800	182TC	LM16824	✓	1,028	AAF4B3TCN61	95	230/460	8.0	89.5	1.25	15.94	A, US	
1200	213TC	G141114.00	✓	1,326	C213T11FC1	133	208-230/460	14.4	87.5	1.15	17.71	S, MX	
5	3600	184TC	G131514.00	✓	939	C184T34FC23	79	208-230/460	12.0	87.5	1.15	14.47	S, MX
	3600	184TC	199084.00	✓	1,114	C184T34FC1	95	230/460	13.4	91.0	1.15	16.73	S, CN
	1800	184TC	G131492.00	✓	905	C184T17FC46	80	208-230/460	12.8	87.5	1.15	14.97	S, MX
	1800	184TC	199085.00	✓	1,043	C184T17FC1	110	230/460	12.4	90.2	1.15	16.73	S, CN
	1800	184TC	LM16299	D	989	AAF4P5TCN61	104	230/460	13.0	87.5	1.25	15.94	A, US
	1800	184TC	LM33489	✓	960	AAF4P5TCN61AP26	104	230/460	13.0	87.5	1.25	15.94	A, MX
	1800	184TC	131501.00	✓	1,110	C184T17FC29	90	208-230/460	12.8	89.5	1.15	15.97	S, MX
1200	215TC	G140535.00	✓	1,530	C215T11FC3	142	208-230/460	17.6	87.5	1.15	18.21	S, MX	
7 1/2	3600	184TC	G131510.00	✓	1,153	C184T34FC22	90	208-230/460	16.8	88.5	1.00	15.97	S, MX
	3600	S213TC	G131912.00	✓	1,184	C184T34FC24	91	208-230/460	16.8	88.5	1.00	16.96	S, MX
	3600	213TC	G151345.60	✓	1,266	C213T34FC43	158	208-230/460	17.8	88.5	1.25	18.95	C, CN
	3600	213TC	199086.00	✓	1,312	C213T34FC1	116	230/460	17.8	92.4	1.15	19.53	S, CN
	1800	213TC	G141113.00	✓	1,124	C213T17FC9	144	208-230/460	20.4	89.5	1.15	17.71	S, MX
	1800	213TC	G151346.60	✓	1,175	C213T17FC42	148	208-230/460	19.2	89.5	1.25	18.95	C, CN
	1800	213TC	199087.00	✓	1,317	C213T17FC1	143	230/460	18.6	91.7	1.15	19.53	S, CN
	1800	213TC	140486.00	✓	1,291	C213T17FC7	144	208-230/460	21.4	91.7	1.25	18.70	S, MX
10	3600	213TC	G140690.00	✓	1,456	C215T34FC4	112	208-230/460	23.6	89.5	1.15	20.57	S, MX
	3600	215TC	G151347.60	✓	1,486	C215T34FC43	153	208-230/460	23.6	89.5	1.25	20.36	C, CN
	3600	215TC	199088.00	✓	1,551	C215T34FC1	137	230/460	22.8	90.2	1.15	21.02	S, CN
	1800	215TC	G140109.00	✓	1,298	C215T17FC10	158	208-230/460	26.0	91.0	1.15	20.57	S, MX
	1800	215TC	140484.00	✓	1,558	C215T17FC4	160	208-230/460	26.6	91.7	1.25	19.70	S, MX
	1800	215TC	G151348.60	✓	1,382	C215T17FC42	173	208-230/460	25.2	91.0	1.25	20.36	C, CN
	1800	215TC	199089.00	✓	1,539	C215T17FC1	168	230/460	24.4	91.7	1.15	21.02	S, CN
	1800	215TC	LM16301	✓	1,590	AF4P10TCN61	149	230/460	27.0	89.5	1.25	19.63	A, US

Green items are Premium Efficient

▼ LM Numbers are Lincoln Models

C/A - Check Availability

D - To be Obsoleted when inventory is depleted

Specifications are subject to change without notice

♥ Note listing on inside back flap

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View On-line Technical Information



Three Phase C Face Motors

Totally Enclosed - General Purpose

Three Phase - Totally Enclosed - C Face Less Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
15	3600	215TC	G140691.00	✓	1,956	C215T34FC5	158	208-230/460	36.0	90.2	1.15	20.57	S, MX
	3600	215TC	G151349.60	✓	2,074	C215T34FC44	173	208-230/460	35.0	90.2	1.25	23.80	C, CN
	1800	254TC	G151350.60	✓	1,981	C254T17FC5	251	208-230/460	37.0	91.0	1.25	23.80	C, CN
	1800	254TC	LM16302	✓	2,392	AF4P15TCN61	221	230/460	39.0	91.0	1.25	23.40	A, US
20	3600	256TC	G151351.60	✓	2,633	C256T34FC5	250	208-230/460	46.2	90.2	1.25	25.50	C, CN
	1800	256TC	G151352.60	✓	2,438	C256T17FC4	265	208-230/460	48.2	91.0	1.25	25.50	C, CN
25	1800	284TC	G151507.60	✓	3,152	C284T17FC5	355	208-230/460	58.8	92.4	1.15	26.26	C, CN
30	1800	286TC	G151508.60	✓	3,761	C286T17FC5	422	208-230/460	69.8	92.4	1.15	27.83	C, CN
40	1800	324TC	G151509.60	✓	4,801	C324T17FC5	562	208-230/460	94.0	93.0	1.15	29.53	C, CN
50	1800	326TC	G151510.60	✓	5,558	C326T17FC5	620	208-230/460	118.0	93.0	1.15	31.02	C, CN
60	1800	364TC	G151519.60	✓	8,380	C364T17FC10	689	208-230/460	138.0	95.4	1.15	32.64	C, CN

▼ LM Numbers are Lincoln Models

♥ Note listing on inside back flap

C/A - Check Availability

Specifications are subject to change without notice

View On-line Technical Information



Tech Information

Single Phase
ODP Motors

Single Phase
TEFC Motors

Single Phase
C Face Motors

Three Phase
ODP Motors

Three Phase
TEFC Motors

Three Phase
C Face Motors

Inverter Duty
Motors

Severe Duty
Motors

Three Phase C Face Motors

Totally Enclosed - General Purpose

Three Phase - Totally Enclosed - C Face With Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
1/4	1800	S56	LM24946	C/A	405	SRF4S0.25TC61	21	230/460	1.3	62.5	1.15	9.94	S, US
1/3	1800	S56C	102921.00	✓	431	C4T17NK3	18	208-230/460	1.3	77.0	1.15	9.56	S, 12, MX
	1800	S56C	102922.00	✓	429	C4T17FK11	19	208-230/460	1.3	77.0	1.15	10.19	S, MX
	1800	S56C	LM24114	✓	448	SRF4S0.33TC61	21	230/460	1.6	65.5	1.15	10.10	S, MX
	1800	S56C	102697.00	✓	550	C4T17FK5	22	208-230/460	1.3	77.0	1.25	10.19	S, MX
	1800	S56C	102697.00	✓	550	C4T17FK5	22	208-230/460	1.3	77.0	1.25	10.19	S, MX
1/2	3600	56C	110182.00	✓	432	C6T344NK1	26	208-230/460	1.6	82.5	1.15	10.40	S, 12, US
	3600	56C	114142.00	✓	432	C6T34FK46	21	208-230/460	2.6	68.0	1.15	10.81	S, US
	3600	56C	LM24129	✓	463	SRF2S0.5TC61	22	230/460	2.2	69.0	1.15	11.81	S, US
	1800	S56C	102919.00	✓	497	C4T17NK2	22	208-230/460	2.0	77.0	1.15	10.06	S, 12, MX
	1800	S56C	102917.00	✓	497	C4T17FK10	19	208-230/460	2.0	73.0	1.15	10.19	S, MX
	1800	S56C	LM24074	✓	504	SRF4S0.5TC61	18	230/460	2.2	70.0	1.15	10.69	S, MX
	1800	S56C	102024.00	✓	592	C4T17FK2	23	208-230/460	1.8	77.0	1.15	10.69	S, MX
	1200	56C	110914.00	✓	669	C6T11FK1	25	208-230/460	2.4	70.0	1.15	11.31	S, US
	1200	56C	LM24104	✓	708	SRF6S0.5TC61	24	230/460	2.7	68.0	1.15	11.81	S, MX
	900	143TC	LM24949	✓	1,030	SSF8S0.5TC61	31	230/460	2.6	66.0	1.15	13.37	S, US
3/4	3600	56C	110915.00	✓	467	C6T34FK6	23	208-230/460	2.4	75.5	1.15	10.81	S, US
	3600	56C	LM24134	✓	508	SRF2S0.75TC61	22	230/460	3.2	74.0	1.15	11.81	S, US
	1800	56C	110916.00	✓	535	C6T17FK5	22	208-230/460	2.8	77.0	1.15	10.81	S, US
	1800	S56C	LM24076	✓	538	SRF4S0.75TC61	20	230/460	2.8	75.5	1.15	11.19	S, MX
	1800	56C	114624.00	✓	636	C6T17FK58	25	208-230/460	2.7	81.5	1.25	11.31	S, US
	1200	56C	116340.00	✓	700	C6T11FK12	29	208-230/460	3.0	75.5	1.15	11.81	S, US
	1200	56C	LM24140	✓	724	SRF6S0.75TC61	26	230/460	3.2	74.0	1.15	12.31	S, MX
	1200	143TC	120485.00	✓	700	C143T11FK2	34	208-230/460	3.0	75.5	1.15	13.25	S, US
	1200	143TC	LM24273	✓	724	SSF6S0.75TC61	28	230/460	3.2	74.0	1.15	12.37	S, MX
	900	145TC	LM24265	✓	1,173	SSF8S0.75TC61	49	230/460	4.8	70.0	1.15	14.87	S, US
1	3600	56C	110181.00	✓	554	C6T34FK1	24	208-230/460	3.2	77.0	1.15	10.81	S, US
	3600	56C	LM24126	✓	586	SRF2S1TC61	25	230/460	3.7	74.0	1.15	11.81	S, US
	1800	56C	110912.00	✓	570	C6T17FK6	24	208-230/460	3.6	77.0	1.15	11.31	S, US
	1800	56C	LM24079	✓	557	SRF4S1TC61	28	230/460	3.6	77.0	1.15	12.31	S, MX
	1800	56C	116745.00	✓	896	C6T17FK98	34	208-230/460	3.4	85.5	1.25	12.81	S, US
	1800	143TC	121179.00	✓	896	C143T17FK9	34	208-230/460	3.4	85.5	1.15	13.25	S, US
	1800	143TC	LM32822	✓	756	SSF4B1TC61	41	208-230/460	3.2	85.5	1.25	12.93	S, US
	1200	145TC	121936.00	✓	877	C145T11FK7	47	208-230/460	3.8	81.5	1.25	13.75	S, US
	1200	56HC	LM24349	✓	731	SRF6S1TC61	38	230/460	4.0	78.5	1.15	12.82	S, MX
	1200	145TC	LM32823	✓	902	SSF6B1TC61	47	230/460	3.8	82.5	1.25	14.87	S, US
	900	182TC	LM32692	D	1,313	AAF8P1TC61	75	230/460	4.4	74.0	1.15	15.83	A, US
	900	182TC	LM33566	C/A	1,313	AAF8P1TC61AP26	75	230/460	4.4	74.0	1.15	—	A, MX

Green items are Premium Efficient

▼ LM Numbers are Lincoln Models

C/A - Check Availability

Specifications are subject to change without notice

♥ Note listing on inside back flap

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View On-line Technical Information



Three Phase C Face Motors

Totally Enclosed - General Purpose

Three Phase - Totally Enclosed - C Face With Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥ Notes
1 1/2	3600	56C	110917.00	✓	621	C6T34FK7	29	208-230/460	4.2	81.5	1.15	11.81	S, US
	3600	56C	LM24135	✓	637	SRF2S1.5TC61	41	230/460	4.6	80.0	1.15	11.82	S, US
	3600	143TC	121672.00	✓	820	C143T34FK15	33	208-230/460	3.6	84.0	1.25	13.25	S, US
	1800	56C	110918.00	✓	601	C6T17FK7	30	208-230/460	5.0	78.5	1.15	11.81	S, US
	1800	56HC	LM24095	✓	589	SRF4S1.5TC61	31	230/460	4.8	80.0	1.15	12.32	S, MX
	1800	56C	116746.00	✓	929	C6T17FK96	37	208-230/460	5.6	86.5	1.25	13.31	S, US
	1800	145TC	121180.00	✓	929	C145T17FK26	37	208-230/460	5.6	86.5	1.15	13.75	S, US
	1800	145TC	LM32825	✓	791	SSF4B1.5TC51	44	230/460	4.6	86.5	1.15	14.37	S, US
	1200	56HC	114198.00	✓	806	C6T11FK6	41	208-230/460	5.7	77.0	1.15	13.31	S, US, 47
	1200	56HCZ	116592.00	✓	806	C6T11FK15	44	208-230/460	5.7	77.0	1.15	13.75	S, US, 32
	1200	182TC	LM16728	D	1,069	AAF6B1.5TC61	95	230/460	4.4	87.5	1.25	15.83	A, US
	1200	182TC	LM33567	✓	1,069	AAF6B1.5TC61AP26	95	230/460	4.4	87.5	1.25	15.83	A, MX
2	3600	56C	113927.00	✓	703	C6T34FK44	34	208-230/460	5.6	82.5	1.15	12.31	S, US
	3600	56HC	LM24121	✓	708	SRF2S2TC61	38	230/460	6.0	82.5	1.15	12.32	S, US
	3600	145TC	121673.00	✓	840	C145T34FK39	44	208-230/460	4.8	85.5	1.25	13.75	S, US
	3600	145TC	LM32828	✓	878	SSF2B2TC61	40	208-230/460	4.8	85.5	1.25	13.43	S, US
	1800	56HC	116106.00	✓	642	C6T17FK76	36	208-230/460	6.2	81.5	1.15	12.81	S, US
	1800	56HC	LM24081	✓	598	SRF4S2TC61	50	230/460	5.2	82.5	1.15	13.82	S, MX
	1800	56HC	116747.00	✓	971	C6T17FK97	43	208-230/460	5.8	86.5	1.25	13.82	S, US
	1800	145TC	121181.00	✓	971	C145T17FK27	43	208-230/460	5.8	86.5	1.25	14.26	S, US
	1800	145TC	LM32829	✓	858	SSF4B2TC61	46	230/460	6.0	86.5	1.15	14.87	S, MX
	1200	184TC	132243.00	✓	1,108	C184T11FK6	93	208-230/460	7.2	88.5	1.15	15.96	S, MX
	1200	184TC	LM16739	D	1,182	AAF6B2TC61	104	230/460	6.0	88.5	1.25	16.83	A, US
	1200	184TC	LM33569	✓	1,182	AAF6B2TC61AP26	104	230/460	6.0	88.5	1.25	16.83	A, MX
	900	213TC	LM32831	C/A	1,864	AAF8P2TC61	107	230/460	7.3	82.5	1.15	17.95	A, US

Green items are Premium Efficient

▼ LM Numbers are Lincoln Models

C/A - Check Availability

D - To be Obsoleted when inventory is depleted

Specifications are subject to change without notice

♥ Note listing on inside back flap

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View On-line Technical Information



Tech Information

Single Phase
ODP Motors

Single Phase
TEFC Motors

Single Phase
C Face Motors

Three Phase
ODP Motors

Three Phase
TEFC Motors

Three Phase
C Face Motors

Inverter Duty
Motors

Severe Duty
Motors

Three Phase C Face Motors

Totally Enclosed - General Purpose

Three Phase - Totally Enclosed - C Face With Base

	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes	
3	3600	56HC	114615.00	✓	783	C6T34FK55	38	208-230/460	7.6	84.0	1.15	12.81	S, US, 47	
	3600	145TC	121929.00	✓	1,031	C145T34FK43	45	208-230/460	7.6	86.5	1.15	13.76	S, US	
	3600	182TC	132079.00	✓	1,213	C182T34FK10	70	208-230/460	7.6	86.5	1.25	13.96	S, MX	
	3600	182TC	171564.60	✓	1,203	C182T34FK14	66	208-230/460	7.2	86.5	1.15	16.76	C, CN	
	3600	182TC	LM16741	D	1,186	AAF2B3TC61	95	230/460	7.6	87.5	1.25	15.83	A, US	
	3600	182TC	LM33570	✓	1,186	AAF2B3TC61AP26	95	230/460	7.6	87.5	1.25	15.83	A, MX	
	3600	182TC	199051.00	✓	1,024	C182T34FK1	83	230/460	7.6	86.5	1.15	15.75	S, CN	
	3600	182TC	LM62016	D	1,143	CCF2B3TC61AP21	97	230/460	7.2	86.5	1.25	15.89	C, CN	
	1800	56HC	116107.00	✓	813	C6T17FK77	45	208-230/460	8.6	82.5	1.00	13.81	S, US, 47	
	1800	56HCZ	116388.00	✓	813	C6T17FK90	46	208-230/460	8.6	82.5	1.00	14.25	S, US, 32	
	1800	182TC	131504.00	✓	1,048	C182T17FK14	75	208-230/460	7.8	89.5	1.15	14.96	S, MX	
	1800	182TC	LM16742	D	1,028	AAF4B3TC61	75	230/460	8.0	89.5	1.25	15.83	A, US	
	1800	182TC	LM33485	✓	1,028	AAF4B3TC61AP26	75	230/460	8.0	89.5	1.25	15.83	A, MX	
	1800	182TC	171565.60	✓	1,167	C182T17FK27	125	208-230/460	7.8	89.5	1.15	15.89	C, CN	
	1800	182TC	199052.00	✓	1,013	C182T17FK1	87	230/460	7.8	89.5	1.15	15.75	S, CN	
	1800	182TC	LM62017	D	1,108	CCF4B3TC61AP21	104	230/460	8.0	90.2	1.15	16.93	C, CN	
	1200	215TC	140834.00	✓	1,497	C215T11FK9	170	230/460	9.4	89.5	1.15	18.21	S, MX	
	1200	213TC	LM16744	✓	1,681	AF6B3TC61	131	230/460	8.8	89.5	1.25	19.45	S, MX	
	5	3600	184TC	171446.60	✓	1,251	C184T34FK44	111	208-230/460	12.0	88.5	1.15	16.80	C, CN
		3600	184TC	199053.00	✓	1,167	C184T34FK1	95	230/460	13.4	88.5	1.15	16.73	S, CN
		3600	184TC	132080.00	✓	1,199	C184T34FK32	100	208-230/460	12.0	88.5	1.25	16.46	S, MX
		3600	184TC	LM16745	D	1,540	AAF2B5TC61	104	230/460	11.8	89.5	1.25	16.83	A, US
		3600	184TC	LM33571	✓	1,540	AAF2B5TC61AP26	104	230/460	11.8	89.5	1.25	16.83	A, MX
		3600	184TC	LM62019	D	1,188	CCF2B5TC61AP21	105	230/460	12.0	88.5	1.15	16.80	C, CN
1800		184TC	171566.60	✓	1,211	C184T17FK35	109	208-230/460	12.8	89.5	1.15	16.80	C, CN	
1800		184TC	199054.00	✓	1,138	C184T17FK1	110	230/460	12.4	89.5	1.15	16.73	S, CN	
	1800	184TC	131502.00	✓	1,135	C184T17FK15	99	208-230/460	12.8	89.5	1.15	15.97	S, MX	
	1800	184TC	LM16747	✓	1,191	AAF4BTC61	104	230/460	12.4	90.2	1.25	16.83	A, US	
	1800	184TC	LM33484	✓	1,191	AAF4B5TC61AP26	104	230/460	12.4	90.2	1.25	16.83	A, MX	
	1200	215TC	171116.60	✓	1,864	C215T11FB11	180	208-230/460	14.4	89.5	1.15	19.61	C, CN	
	1200	215TC	LM16748	✓	1,927	AF6B5TC61	149	230/460	13.8	89.5	1.25	19.45	A, US	
	1200	215TC	LM32835	✓	1,692	SSF6B5TC61	149	230/460	14.0	89.5	1.15	20.97	S, MX	
	900	254TC	LM32836	✓	2,757	AF8P5TC61	167	230/460	15.0	87.5	1.15	23.40	A, US	
	7 1/2	3600	184TC	132313.00	✓	1,303	C184T34FK48	103	208-230/460	17.6	89.5	1.15	13.97	S, MX
3600		213TC	140770.00	✓	1,480	C215T34FK11	160	208-230/460	17.8	90.2	1.15	19.64	S, MX	
3600		213TC	170166.60	✓	1,473	C213T34FK5	147	208-230/460	18.0	89.5	1.15	18.19	C, CN	
3600		213TC	199055.00	✓	1,417	C213T34FK1	116	230/460	17.8	89.5	1.15	19.53	S, CN	
3600		213TC	LM62085	D	1,398	CCF2B7.5TC61AP21	155	230/460	18.0	89.5	1.25	18.19	C, CN	
1800		213TC	140521.00	✓	1,297	C213T17FK7	144	208-230/460	21.4	91.7	1.25	18.70	S, MX	
1800		213TC	170165.60	✓	1,392	C213T17FK2	155	208-230/460	18.6	91.7	1.15	18.19	C, CN	
1800		213TC	199056.00	✓	1,355	C213T17FK1	143	230/460	19.2	91.7	1.15	19.53	S, CN	
	1800	213TC	LM16752	✓	1,822	AF4B7.5TC61	138	230/460	19.2	91.6	1.25	19.45	A, US	
	1800	213TC	LM62024	D	1,322	CCF4B7.5TC61AP21	160	230/460	18.6	91.7	1.25	18.19	C, CN	
	1200	254TC	170138.60	✓	2,684	C254T11FB9	249	208-230/460	22.2	91.0	1.15	23.19	C, CN	
	1200	254TC	LM16753	✓	2,637	AAF6B7.5TC61	221	230/460	19.8	91.0	1.25	23.40	A, US	
	900	256TC	LM32839	✓	3,240	AF8P7.5TC61	203	230/460	23.0	86.5	1.15	25.15	A, US	

Green items are Premium Efficient

♥ Note listing on inside back flap

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D - To be Obsoleted when inventory is depleted

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View On-line Technical Information



Three Phase C Face Motors

Totally Enclosed - General Purpose

Three Phase - Totally Enclosed - C Face With Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
10	3600	215TC	140769.00	✓	1,674	C213T34FK1	175	208-230/460	23.6	91.7	1.15	21.09	S, MX
	3600	215TC	LM32840	✓	1,879	SSF2B10TC1	125	230/460	23.6	91.7	1.25	22.22	S, MX
	3600	215TC	170168.60	✓	1,725	C215T34FK15	181	208-230/460	23.4	90.2	1.15	19.61	C, CN
	3600	215TC	199057.00	✓	1,565	C215T34FK1	137	230/460	22.8	90.2	1.15	21.02	S, CN
	3600	215TC	LM16755	✓	1,954	AF2B10TC61	149	230/460	23.6	91.7	1.25	20.45	A, US
	3600	215TC	LM62025	D	1,639	CCF2B10TC61AP21	181	230/460	23.4	90.2	1.25	19.61	C, CN
	1800	215TC	140522.00	✓	1,566	C215T17FK3	160	208-230/460	26.6	91.7	1.25	19.70	S, MX
	1800	215TC	LM32841	✓	1,553	SSF4B10TC61	135	230/460	25.6	91.7	1.25	20.97	S, MX
	1800	215TC	170167.60	✓	1,593	C215T17FK20	177	208-230/460	25.0	91.7	1.15	19.61	C, CN
	1800	215TC	199058.00	✓	1,546	C215T17FK1	164	230/460	24.4	91.7	1.15	21.02	S, CN
	1800	215TC	LM16757	✓	1,926	AF4B10TC61	149	230/460	25.0	91.7	1.25	19.45	A, US
	1200	256TC	170139.60	✓	2,991	C256T11FB11	300	208-230/460	29.0	91.0	1.15	24.92	C, CN
15	3600	256TC	LM16759	✓	3,296	AF6B10TC61	248	230/460	26.2	91.0	1.25	25.15	A, US
	3600	254TC	171586.60	✓	2,648	C254T34FK8	292	208-230/460	34.6	91.7	1.25	23.19	C, CN
	3600	254TC	199059.00	✓	2,318	C254T34FK1	350	230/460	34.0	91.0	1.15	26.60	C, CN
	3600	254TC	LM62028	D	2,515	CCF2B15TC61AP21	282	230/460	34.5	92.4	1.25	23.75	C, CN
	1800	254TC	171587.60	✓	2,737	C254T17FK8	284	208-230/460	36.0	92.4	1.25	23.19	C, CN
	1800	254TC	199060.00	✓	2,520	C254T17FK1	350	230/460	37.0	92.4	1.15	26.60	C, CN
	1800	254TC	LM16762	✓	2,714	AF4B15TC61	221	230/460	37.5	92.4	1.25	23.40	A, US
	1800	254TC	LM62029	D	2,601	CCF4B15TC61AP21	280	208-230/460	36.0	92.4	1.25	23.19	C, CN
	1200	284TC	170104.60	✓	4,456	C284T11FB9	333	208-230/460	40.6	91.7	1.15	26.26	C, CN
	3600	256TC	171588.60	✓	3,252	C256T34FK3	326	208-230/460	46.0	92.4	1.25	24.92	C, CN
	3600	256TC	199061.00	✓	2,954	C256T34FK1	375	230/460	46.0	91.0	1.15	27.80	C, CN
	3600	256TC	LM62031	D	3,090	CCF2B20TC61AP21	316	230/460	46.0	92.4	1.15	25.48	C, CN
20	1800	256TC	171589.60	✓	3,269	C256T17FK8	325	208-230/460	49.0	93.0	1.25	24.92	C, CN
	1800	256TC	199062.00	✓	3,037	C256T17FK1	425	230/460	49.0	93.0	1.15	27.80	C, CN
	1800	256TC	LM16767	✓	2,950	AF4B20TC61	248	230/460	48.0	93.0	1.25	25.15	A, US
	1800	256TC	LM62032	D	3,104	CCF4B20TC61AP21	332	230/460	50.0	93.0	1.25	25.48	C, CN
	1200	286TC	LM16769	✓	5,866	AF6B20TC61Y	415	230/460	61.0	91.7	1.25	28.01	A, US
	3600	284TC	170619.60	✓	3,587	C284T34FK8	393	208-230/460	56.8	93.0	1.15	24.88	C, CN
	3600	284TSC	171590.60	✓	4,087	C284T34FK5	290	208-230/460	56.8	93.0	1.25	25.88	C, CN
	3600	284TSC	199063.00	✓	3,503	C284T34FK1	475	230/460	56.0	91.7	1.15	28.79	C, CN
	3600	284TSC	LM62034	D	3,882	CCF2B25TSC61AP21	383	230/460	56.8	91.7	1.25	24.88	C, CN
	1800	284TC	171591.60	✓	4,229	C284T17FK5	388	208-230/460	59.0	94.0	1.25	26.26	C, CN
	1800	284TC	199064.00	✓	3,896	C284T17FK1	500	230/460	61.0	93.6	1.15	30.16	C, CN
	1800	284TC	LM16772	✓	4,010	AF4B25TC61Y	370	230/460	64.0	93.6	1.25	26.51	A, US
	1800	284TSC	LM32654	✓	3,987	AF4B25TSC61Y	370	230/460	65.0	93.6	1.25	25.13	A, US
25	1800	284TSC	LM62035	D	4,018	CCF4B25TC61AP21	385	230/460	59.0	93.6	1.25	26.26	C, CN
	1200	324TC	LM13723	C/A	8,068	SF6B25TC61Y	514	230/460	64.0	92.4	1.25	28.94	S, US

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♥ Note listing on inside back flap

▼ LM Numbers are Lincoln Models

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C/A - Check Availability

D - To be Obsoleted when inventory is depleted

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Tech Information

Single Phase
ODP Motors

Single Phase
TEFC Motors

Single Phase
C Face Motors

Three Phase
ODP Motors

Three Phase
TEFC Motors

Three Phase
C Face Motors

Inverter Duty
Motors

Severe Duty
Motors

Three Phase C Face Motors

Totally Enclosed - General Purpose

Three Phase - Totally Enclosed - C Face With Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
30	3600	286TSC	170108.60	✓	4,233	C286T34FK14	400	208-230/460	69.2	93.0	1.15	27.83	C, CN
	3600	286TSC	199065.00	✓	4,049	C286T34FK1	500	230/460	68.0	91.7	1.15	39.97	C, CN
	3600	286TC	170620.60	✓	4,233	C286T34FK11	400	208-230/460	69.2	93.0	1.15	26.46	C, CN
	1800	286TC	171592.60	✓	5,095	C286T17FK4	436	208-230/460	70.0	93.6	1.15	27.83	C, CN
	1800	286TC	199066.00	✓	4,455	C286T17FK1	525	230/460	73.0	93.6	1.15	31.34	C, CN
	1800	286TC	LM16774	✓	5,211	AF4B30TC61Y	415	230/460	75.0	93.6	1.25	28.01	A, US
	1800	286TSC	LM32842	✓	5,211	AF430TSC61Y	415	230/460	75.0	93.6	1.25	26.63	A, US
	1800	286TC	LM62038	D	4,840	CCF4B30TC61AP21	432	230/460	70.0	93.6	1.25	27.83	C, CN
40	1200	326TC	LM13724	C/A	8,410	SF6B30TC61Y	568	230/460	76.0	93.0	1.25	30.44	S, US
	3600	324TSC	170110.60	✓	6,242	C324T34FK8	574	208-230/460	89.0	93.6	1.15	28.03	C, CN
	3600	324TSC	199067.00	✓	5,303	C324T34FK1	675	230/460	88.0	92.4	1.15	31.18	C, CN
	1800	324TC	171593.60	✓	6,586	C324T17FK5	532	208-230/460	92.0	94.1	1.15	29.53	C, CN
	1800	324TC	199068.00	✓	5,668	C324T17FK1	750	230/460	94.0	94.1	1.15	32.68	C, CN
	1800	324TC	LM13726	✓	8,936	SF4B40TC61Y	514	230/460	101.0	94.1	1.25	28.94	S, US
	1800	324TSC	LM32652	✓	8,936	SF4B40TSC61Y	574	230/460	102.0	94.1	1.25	27.44	S, US
	1800	324TC	LM62041	D	6,257	CCF4B40TC61AP21	530	230/460	92.0	94.1	1.15	29.53	C, CN
50	1200	364TC	LM15565	✓	9,878	SF6B40TC61Y	777	230/460	112.0	93.6	1.25	31.89	S, US
	3600	326TSC	170112.60	✓	6,424	C326T34FK5	604	208-230/460	112.0	93.0	1.15	29.53	C, CN
	3600	326TSC	199069.00	✓	5,644	C326T34FK1	725	230/460	109.0	93.0	1.15	32.36	C, CN
	1800	326TC	171594.60	✓	7,235	C326T17FK5	592	208-230/460	117.0	94.5	1.25	31.02	C, CN
	1800	326TC	199070.00	✓	6,518	C326T17FK1	775	230/460	119.0	94.5	1.15	33.86	C, CN
	1800	326TC	LM13728	✓	8,975	SF4B59TC61Y	568	230/460	127.0	94.5	1.25	30.44	S, US
	1800	326TSC	LM32843	✓	8,975	SF4B50TSC61Y	568	230/460	122.0	94.5	1.25	28.94	S, US
	1800	326TC	LM62044	D	6,872	CCF4B50TC61AP21	590	230/460	117.0	94.5	1.25	31.02	C, CN
60	1200	365TC	LM15568	✓	11,836	SF6B50TC61Y	834	230/460	138.0	94.1	1.25	32.89	S, US
	3600	364TSC	170114.60	✓	10,500	C364T34FK3	858	208-230/460	139.0	93.6	1.15	30.51	C, CN
	3600	364TSC	199071.00	✓	8,161	C364T34FK1	925	230/460	132.0	93.6	1.15	34.48	C, CN
	1800	364TC	171595.60	✓	11,473	C364T17FK5	997	208-230/460	137.0	95.4	1.25	32.64	C, CN
	1800	364TC	199072.00	✓	8,573	C364T17FK1	1000	230/460	138.0	95.0	1.15	36.61	C, CN
	1800	364TC	LM15563	✓	11,786	SF4B60TC61Y	777	230/460	145.0	95.0	1.25	31.89	S, US
	1800	364TSC	LM32665	✓	11,786	SF4B60TSC61Y	777	230/460	145.0	95.0	1.25	29.77	S, US
	1800	364TC	LM62047	D	10,899	CCF4B60TC61AP21	666	230/460	137.0	95.0	1.25	32.64	C, CN
75	3600	365TSC	171115.60	✓	12,607	C365T34FK3	897	208-230/460	172.0	93.6	1.15	31.49	C, CN
	3600	365TSC	199073.00	✓	8,706	C365T34FK1	1025	230/460	164.0	93.6	1.15	36.26	C, CN
	1800	365TC	171596.60	✓	13,201	C365T17FK6	1058	208-230/460	170.0	95.8	1.25	33.62	C, CN
	1800	365TC	199074.00	✓	9,303	C365T17FK1	1100	230/460	173.0	95.4	1.15	38.39	C, CN
	1800	365TC	LM15567	✓	12,325	SF4B75TC61Y	834	230/460	178.0	95.4	1.15	32.89	S, US
	1800	365TSC	LM32653	✓	12,325	SF4B75TSC61Y	834	230/460	178.0	95.4	1.15	30.77	S, US
	1800	365TC	LM62050	D	12,541	CCF4B75TC61AP21	733	230/460	170.0	95.8	1.25	33.62	C, CN

Green items are Premium Efficient

▼ LM Numbers are Lincoln Models

C/A - Check Availability

D - To be Obsoleted when inventory is depleted

Specifications are subject to change without notice

♥ Note listing on inside back flap
Continued On Next Page



View On-line Technical Information



Three Phase C Face Motors

Totally Enclosed - General Purpose

Three Phase - Totally Enclosed - C Face With Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
100	3600	405TSC	LM16719	✓	17,723	SF2B100TSC61Y	1018	230/460	210.0	94.5	1.15	33.87	S, US
	3600	405TSC	199075.00	✓	12,095	C405T34FK1	1250	230/460	216.0	94.5	1.15	39.76	C, CN
	1800	405TC	171597.60	✓	16,164	C405T17FK2	1076	208-230/460	225.0	95.4	1.15	37.91	C, CN
	1800	405TC	199076.00	✓	12,412	C405T17FK1	1375	230/460	224.0	95.4	1.15	42.76	C, CN
	1800	405TC	LM15263	✓	14,897	SF4B100TC61Y	1018	230/460	244.0	95.4	1.15	36.87	S, US
	1800	405TSC	LM32659	✓	14,897	SF4B100TSC61Y	1372	230/460	244.0	95.4	1.15	33.87	S, US
	1800	405TC	LM62053	D	15,356	CCF4B100TC61AP21	733	230/460	225.0	95.4	1.15	37.91	C, CN
125	3600	444TSC	LM13730	C/A	22,698	SF2B125TSC64Y	1372	460	133.0*	95.0	1.15	37.74	S, US
	1800	444TC	LM13731	C/A	19,836	SF4B125TC64Y	1372	460	146.0*	96.2	1.15	41.49	S, US
	1800	444TSC	LM32844	✓	19,836	SF4B125TSC64Y	1372	460	146.0*	96.2	1.15	37.74	S, US
150	3600	445TSC	LM13733	C/A	28,017	SF2B150TSC64Y	1552	460	163.0*	95.8	1.15	39.74	S, US
	1800	445TC	LM13734	✓	22,844	SF4B150TC64Y	1552	460	168.0*	96.2	1.15	39.74	S, US
	1800	445TSC	LM32845	✓	22,844	SF4B150TSC64Y	1525	460	168.0*	96.2	1.15	39.74	S, US
200	3600	445TSC	LM13736	C/A	35,128	SF2B200TSC64Y	1552	460	212.0*	96.2	1.15	39.74	S, US
	1800	445TC	LM13737	✓	28,051	SF4B200TC64Y	1525	460	227.0*	96.2	1.15	43.49	S, US
	1800	445TSC	LM32660	✓	28,051	SF4B200TSC64Y	1525	460	227.0*	96.2	1.15	39.74	S, US

Green items are Premium Efficient

♥ Note listing on inside back flap

* F.L. Amps at 460V

▼ LM Numbers are Lincoln Models

C/A - Check Availability

D - To be Obsoleted when inventory is depleted

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View On-line Technical Information



Tech Information

Single Phase
ODP Motors

Single Phase
TEFC Motors

Single Phase
C Face Motors

Three Phase
ODP Motors

Three Phase
TEFC Motors

Three Phase
C Face Motors

Inverter Duty
Motors

Severe Duty
Motors

Three Phase C Face Motors

FHP Motors for AC Drives



Features:

- Compact 48-frame design with keyed shaft
- Class F insulation
- 20:1 constant torque rated
- Inverter IRIST™ insulation system
- 1/2" diameter keyed shaft with 48-C Face
- 115/230V three phase design optimized for FHP drives
- Designed to be used with FHP AC Drives found on page 353



Three Phase - TEFC - C Face With Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
1/6	1800	48CZ	102792.00	√	348	C4T17FK7	25	115/230	1.3	56.0	1.15	8.94	S, MX
1/4	1800	48CZ	102793.00	√	394	C4T17FK8	26	115/230	1.4	58.0	1.15	8.94	S, MX
1/3	1800	48CZ	102794.00	√	431	C4T17FK6	28	115/230	1.6	64.3	1.15	9.19	S, MX
1/2	1800	48CZ	102795.00	√	482	C4T17FK9	30	115/230	1.8	77.0	1.15	10.19	S, MX

Specifications are subject to change without notice

♥ Note listing on inside back flap



View On-line Technical Information



Inverter Speed Ratio Information

Guidelines for Application of General Purpose, Three Phase, Single Speed Motors on Variable Frequency Drives Meets NEMA MG1-2006 Part 30 and Part 31 Section 4.4.2 Unless stated otherwise, motor nameplates do NOT include listed speed range.

ENCLOSURE	EFFICIENCY	VARIABLE TORQUE	CONSTANT TORQUE								
		ALL FRAMES	56	143-215		254-286		324-365		404-449	
NEMA Motors		ALL POLES	ALL POLES	2-Pole	4&6 Pole	2-Pole	4&6 Pole	2-Pole	4&6 Pole	2-Pole	4&6 Pole
ODP	Standard (EPAAct exempt)	10:1	2:1	2:1	2:1	Contact Engineering					
	EPAAct compliant	10:1	n/a	10:1	2:1	2:1	2:1	Contact Engineering			
	NEMA Premium	10:1	n/a	2:1	10:1	10:1	10:1				
TEFC	Standard (EPAAct exempt)	10:1	2:1	2:1	2:1	Contact Engineering					
	EPAAct compliant	10:1	n/a	2:1	10:1	2:1	10:1	2:1	2:1	2:1	2:1
	NEMA Premium	10:1	n/a	2:1	20:1	2:1	20:1	2:1	20:1 (1)	2:1	20:1 (1)
TENV	EPAAct compliant	10:1	n/a	1000:1	1000:1	1000:1	1000:1	1000:1	1000:1	1000:1	1000:1
	NEMA Premium	10:1	1000:1	1000:1	1000:1	1000:1	1000:1	1000:1	1000:1	1000:1	1000:1
Washdown TEFC	Standard (EPAAct exempt)	10:1	10:1 (2)	10:1 (2)	10:1 (2)	n/a	n/a	n/a	n/a	n/a	n/a
	EPAAct compliant	10:1	10:1 (2)	10:1 (2)	10:1 (2)	n/a	n/a	n/a	n/a	n/a	n/a
	NEMA Premium	10:1	10:1 (2)	10:1 (2)	10:1 (2)	n/a	n/a	n/a	n/a	n/a	n/a
Washdown TENV	Standard (EPAAct exempt)	10:1	1000:1	1000:1	1000:1	n/a	n/a	n/a	n/a	n/a	n/a
	EPAAct compliant	10:1	1000:1	1000:1	1000:1	n/a	n/a	n/a	n/a	n/a	n/a
	NEMA Premium	10:1	1000:1	1000:1	1000:1	n/a	n/a	n/a	n/a	n/a	n/a
Explosion Proof	all efficiency levels	Explosion Proof motors must be properly nameplated with inverter duty information prior to use on VFD. See LEESON catalog pages for specific rating capabilities. Motors with automatic overload protectors cannot be used on VFDs.									
IEC Motors		ALL FRAMES	63-90		100-225		250-315				
all Enclosures	all efficiency levels	10:1	20:1		Up to 20:1		Up to 2:1				

Note (2) - Washdown TEFC motors are rated for 10:1 C.T. 60 minute duty or 2:1 C.T. continuous duty at lowest RPM

Lincoln Rolled Steel - ODP - 280-360 Frame - 2:1 Constant Torque

280 Frame and Higher - TEFC - 280-360 Frame- 2:1 Constant Torque

400 Frame and Higher - Contact Local Sales office

Stock 90 VDC and 180 VDC Motors 30:1 of rated torque

Application Notes

Bearing currents: LEESON Electric recommends that any motors used with Variable Frequency Drives be equipped with suitable means to protect the motor bearings from shaft currents caused by common mode voltages inherent with operation on a non-sinusoidal power supply. LEESON Electric offers several options for motors in non-classified (non-hazardous) locations, including ground brushes, insulated bearings and non-contact shaft grounding rings. For more information on ground brushes and bearing currents, see the VARIABLE SPEED OPERATION section. For installation cost and available options, see the MOD Squad section.

Restricted use: DO NOT APPLY THE FOLLOWING MOTORS ON VARIABLE FREQUENCY DRIVES:

Single Phase motors: Motors with inherent overload protection, Multi-speed motors, Motors with 1.0 service Factor on sine wave power. Fire Pump motors should not be used with variable frequency power supplies, due to the critical nature of these applications.

Hazardous locations: Consult with LEESON Electric when applying motors and drives into hazardous locations, either Division/Zone 1 or Division/Zone 2 areas. UL and CSA policies prohibit the installation of bearing protection devices, such as shaft grounding brushes, rings or insulated bearings on motors in hazardous locations.

Maximum Cable Lengths from the Motor to Drive

* Higher carrier frequencies require shorter cable length to obtain normal (50Khrs) insulation life.

Standard Motor Insulation Systems

PRODUCT DESCRIPTION	3 kHz CARRIER FREQUENCY (PHASE TO PHASE)*		
	230 VOLT	460 VOLT	575 VOLT
56-326 NEMA, 100-225 IEC Frames	600 ft.	125 ft.	40 ft.
364-5013 NEMA, 250-315 IEC Frames	1000 ft.	225 ft.	60 ft.
Motors with Corona Resistant Magnet Wire	1500 ft.	475 ft.	140 ft.
Motors with IRIS™ or Ultimate-e™ Spike Defense™	Unlimited	Unlimited	650 ft.
Form-wound low voltage motors	Unlimited	Unlimited	650 ft.
Standard Motor Insulation Systems			
IRIS™ INSULATION SYSTEM	ULTIMATE SPIKE DEFENSE™		
All LEESON 3-Phase Motors 1HP and above	Lincoln Premium Efficient Motors		
All LEESON Premium Efficient Motors	Lincoln Inverter Duty Motors		
All LEESON Inverter Duty Motors	Lincoln CTAC® Motors		



Tech Information

Single Phase
ODP Motors

Single Phase
TEFC Motors

Single Phase
C Face Motors

Three Phase
ODP Motors

Three Phase
TEFC Motors

Three Phase
C Face Motors

Inverter Duty
Motors

Severe Duty
Motors

Inverter Duty Motors



- Ideally suited for IGBT power
- Inverter duty insulation system
- Over temperature protection
- Speedmaster® and CTAC® models – 2000 : 1 speed range
- Provisions for encoder mounting
- Lincoln Vector duty CTAC® models include 1024 ppr encoder
- Drip-proof and totally enclosed models available
- Precision balanced rotor assemblies
- Made in the U.S.A.
- 3-year warranty

Applications:

For use in constant torque (conveyors and machine tools) or variable torque (pumps and fans) variable speed applications within the stated speed range of the motor.



Inverter Duty Motors / Vector Duty Motors - 2000:1 Speed Range With Encoder mounting provisions

Features:

- Class H inverter rated insulation system
- Constant torque operation from 0 to base RPM rating with vector drives
- C Face with rigid base through 100 HP on LEESON models, Lincoln models through 5 HP
- TEBC designs utilize 3-phase blower motors
- Normally closed thermostats
- Cast iron, Steel and Aluminum frame construction - see Notes
- Provisions for Encoder feedback devices
- Precision balanced rotors
- UL recognized and CSA certified
- 3-year warranty

Three Phase - Totally Enclosed - Rigid Base & Rigid C Face

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	Max. RPM	Service Factor	"C" Dim. (Inches)	Inverter speed range	♥ Notes
1/3	1800	56C	LM10336	✓	566	SRF4S0.33TC61Q20	26	230/460	1.6	4000	1.00	11.31	10 : 1	S, US, 13
1/2	1800	56C	LM24264	C/A	652	SRF4S0.5TC61Q20	24	230/460	2.4	4000	1.00	11.81	10 : 1	S, US, 13
	1200	56HC	LM10338	✓	774	SRF6S0.5TC61Q20	41	230/460	2.6	4000	1.00	12.32	10 : 1	S, US, 13
3/4	1800	56HC	LM10339	✓	735	SRF4S0.75TC61Q20	25	230/460	3.0	4000	1.00	11.82	10 : 1	S, US, 13
1	1800	56HC	LM10340	✓	1,414	SRF4S1TC61Q20	62	230/460	3.6	4000	1.00	12.32	10 : 1	S, US, 13
	1800	143TC	810548.00	✓	1,495	143THTN8037	61	230/460	3.0	5400	1.00	13.68	2000 : 1	C, US, 12
	1800	145TC	LM26359	✓	1,432	SSN4S1TC61Q10	62	230/460	4.0	5000	1.00	15.39	2000 : 1	S, US, 12
	1200	182TC	LM06103	✓	1,621	AAN6S1TC61Q10	78	230/460	3.6	4800	1.00	12.94	2000 : 1	A, US, 12
	900	184TC	LM06105	C/A	2,022	AAN8S1TC61Q10	100	230/460	5.0	4800	1.20	16.57	2000 : 1	A, US, 12
1 1/2	1800	145TC	810547.00	✓	1,647	145THTN8044	68	230/460	4.6	5400	1.00	14.68	2000 : 1	C, US, 12
	1800	145TC	LM26233	C/A	1,590	SSN4S1.5TC61Q10	65	230/460	4.8	5000	1.00	15.39	2000 : 1	S, US, 12
2	1800	145TC	810546.00	✓	1,720	145THTN8045	70	230/460	6.0	5400	1.00	14.68	2000 : 1	C, US, 12
	1800	182TC	LM06113	✓	1,726	AAN4S2TC61Q10	74	230/460	6.0	4800	1.00	15.57	2000 : 1	A, US, 12
3	1800	182TC	811320.00	✓	2,055	182THTS8051	110	230/460	8.0	5400	1.00	16.68	2000 : 1	C, US, 12
	1800	184TC	LM06119	✓	2,007	AAN4S3TC61Q10	94	230/460	8.4	4800	1.00	16.57	2000 : 1	A, US, 12
	1200	215TC	LM06121	C/A	3,202	AN5S3TC61Q10	135	230/460	12.0	4600	1.00	18.56	2000 : 1	A, US, 12
5	1800	184TC	811322.00	✓	2,277	184THTS8058	118	230/460	13.4	5400	1.00	17.69	2000 : 1	C, US, 12
	1800	213TC	LM06125	✓	2,303	AN4S5TC61Q10	115	230/460	15.6	4600	1.00	17.94	2000 : 1	A, US, 12
7 1/2	1800	213TC	810157.00	✓	3,062	213THTS8070	180	230/460	21.0	4200	1.00	20.56	2000 : 1	C, US, 12
10	1800	215TC	810140.00	✓	3,618	215THTS8070	290	230/460	26.0	4200	1.00	22.74	2000 : 1	C, US, 12

▼ LM Numbers are Lincoln Models

♥ Note listing on inside back flap

Note 12 - TENV

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C/A - Check Availability

Specifications are subject to change without notice

View On-line Technical Information



Tech Information

Single Phase
ODP Motors

Single Phase
TEFC Motors

Single Phase
C Face Motors

Three Phase
ODP Motors

Three Phase
TEFC Motors

Three Phase
C Face Motors

Inverter Duty
Motors

Severe Duty
Motors

Inverter Duty Motors

Inverter Duty Motors / Vector Duty Motors - 2000:1 Speed Range

With Encoder mounting provisions

Three Phase - Totally Enclosed - Rigid Base & Rigid C Face

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	Max. RPM	Service Factor	"C" Dim. (Inches)	Inverter speed range	♥ Notes
15	1800	254TC	810066.00	✓	4,338	254THTNA8060	320	230/460	39.0	4200	1.00	25.12	2000 : 1	C, US, 12
	1200	284TC	810068.00	✓	9,162	284THTPA7090	440	230/460	40.0	3600	1.00	37.48	2000 : 1	C, US, 11
20	1800	256TC	810007.00	✓	5,911	256THTNA8070	435	230/460	52.0	4200	1.00	27.13	2000 : 1	C, US, 12
	1200	286TC	810001.00	✓	10,976	286THFPA8090	450	230/460	52.4	3600	1.00	37.48	2000 : 1	C, US, 11
25	1800	284TC	810011.00	C/A	7,367	284THFPA8060	438	230/460	65.0	3600	1.00	37.48	2000 : 1	C, US, 11
	1200	324TC	810003.00	✓	12,912	324THFPA8090	620	230/460	67.0	3600	1.00	40.41	2000 : 1	C, US, 11
30	1800	286TC	810015.00	✓	8,112	286THFPA8040	520	230/460	74.0	4200	1.00	38.98	2000 : 1	C, US, 11
	1200	326TC	810005.00	✓	14,210	326THFPA8090	700	230/460	82.0	3600	1.00	41.91	2000 : 1	C, US, 11
40	1800	324TC	810019.00	✓	10,260	324THFPA8050	620	230/460	100.0	3600	1.00	40.41	2000 : 1	C, US, 11
	1200	364T	810096.00	✓	17,136	364THFS18079	975	230/460	104.0	2700	1.00	42.78	2000 : 1	C, US, 11
50	1800	326TC	810023.00	✓	12,102	326THFPA8040	640	230/460	120.0	3600	1.00	41.91	2000 : 1	C, US, 11
	1200	365TC	810097.00	C/A	20,542	365THFS8397	1029	230/460	180.0	2700	1.00	43.78	2000 : 1	C, US, 11
60	1800	364TC	810027.00	✓	15,576	364THFS8059	975	230/460	147.0	2700	1.00	42.78	2000 : 1	C, US, 11
	1200	404TC	810098.00	✓	22,790	404THFS8378	1322	230/460	142.0	2700	1.00	46.72	2000 : 1	C, US, 11
75	1800	365TC	810031.00	✓	18,678	365THFS8074	1050	230/460	180.0	2700	1.00	43.78	2000 : 1	C, US, 11
	1200	405TC	810099.00	C/A	27,767	405THFS8386	1350	230/460	180.0	2700	1.00	49.28	2000 : 1	C, US, 11
100	1800	405TC	810087.00	C/A	22,755	405THFS8329	1400	230/460	230.0	2700	1.00	49.28	2000 : 1	C, US, 11
	1200	444TC	811367.00	C/A	31,570	444THFN8389	2050	230/460	250.0	2700	1.00	52.72	2000 : 1	C, US, 11
125	1800	444T	811369.00	C/A	28,696	444THFN8050	2000	460	138*	2700	1.00	52.72	2000 : 1	C, US, 11
150	1800	445T	811371.00	C/A	32,558	445THFN8334	2321	460	170*	2700	1.00	54.72	2000 : 1	C, US, 11
	1800	445T	LM03564	C/A	33,209	SB4H150T64YQ10	1480	460	165*	3000	1.00	59.85	2000 : 1	S, US, 11
200	1800	445T	810503.00	C/A	38,539	445THFN8335	2450	460	230*	2700	1.00	54.72	2000 : 1	C, US, 11
250	1800	449T	811516.00	C/A	51,059	449THFS8328	3210	460	295*	2700	1.00	63.21	2000 : 1	C, US, 11
300	1800	449T	811529.00	C/A	64,723	449THFS8329	3410	460	330*	2700	1.00	63.21	2000 : 1	C, US, 11
350	1800	449T	811530.00	C/A	78,947	449THFS8330	3520	460	385*	2700	1.00	63.21	2000 : 1	C, US, 11

* Amps at 460 Volt

♥ Note listing on inside back flap

▼ LM Numbers are Lincoln Models

Note 11 - TEBC

Note 12 - TENV

C/A - Check Availability

Specifications are subject to change without notice



View On-line Technical Information



Encoder Kits For Speedmaster® 81,000 Series 2000:1 Motors

Description	Enclosure	Frame	Brand/Model	PPR	Catalog Number	List Price
Encoders						
Modular Mount, 5-15 VDC, with EPIC connector	TENV	143-256T	Northstar SL56	1024	E175927.00	3316
Shaft Mount, 5-26 VDC, with 10 pin connector	TENV	143-256T	Dynapar HS35	1024	E175928.00	2130
Shaft Mount, 5-26 VDC, with 10 pin connector	TENV	143-256T	BEI HS35	1024	E175929.00	2130
Shaft Mount, 5-26 VDC, with 10 pin connector	TENV	143-256T	Dynapar HS35	2048	E175930.00	2130
Shaft Mount, 5-26 VDC, with 10 pin connector	TENV	143-256T	BEI HS35	2048	E175931.00	2130
Modular Mount, 5-15 VDC (Encoder Conduit Box Required)	TEBC	284-449T	Northstar SL56	1024	E175921.00	3316
Shaft Mount, 5-26 VDC (Encoder Conduit Box Required)	TEBC	284-449T	Dynapar HS35	1024	E175922.00	2130
Shaft Mount, 5-26 VDC (Encoder Conduit Box Required)	TEBC	284-449T	BEI HS35	1024	E175923.00	2130
Shaft Mount, 5-26 VDC (Encoder Conduit Box Required)	TEBC	284-449T	Dynapar HS35	2048	E175924.00	2130
Shaft Mount, 5-26 VDC (Encoder Conduit Box Required)	TEBC	284-449T	BEI HS35	2048	E175925.00	2130
Conduit Box Required for all TEBC Units	--	--	--	--	ECB175926.00	237

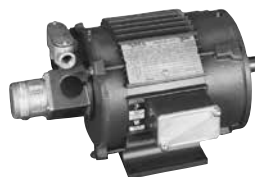
Shipped separately for field installation.

Inverter Duty Motors

Vector Duty Motors - 2000:1 Speed Range With 1024 ppr Encoder

Features:

- Inverter duty insulation system
- Constant HP range at 2x base speed 56 - 256T frames
- Constant HP range at 1.5x base speed 284T - 445T frames
- Includes 1024 ppr encoder with differential line driver
- Normally enclosed thermostats
- Steel and Aluminum frame construction - see Notes
- C Face designs through 10 HP
- Precision balanced rotors



Three Phase - Totally Enclosed - Rigid Base & Rigid C Face

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	Max. RPM	Service Factor	"C" Dim. (Inches)	Inverter speed range	♥Notes
1/3	1800	56C	LM10346	✓	2,136	SRN4S0.33TC61Q15	43	230/460	1.0	5000	1.00	14.47	2000 : 1	S, US, 12
1/2	1800	56C	LM10347	✓	2,231	SRN4S0.5TC61Q15	43	230/460	1.6	5000	1.00	14.47	2000 : 1	S, US, 12
3/4	1800	56HC	LM10349	✓	2,307	SRN4S0.75TC61Q15	54	230/460	2.6	5000	1.00	15.97	2000 : 1	S, US, 12
1	1800	56HC	LM10350	✓	3,146	SRN4S1TC61Q15	54	230/460	3.2	5000	1.00	15.97	2000 : 1	S, US, 12
	1800	145TC	LM26109	C/A	3,146	SSN4S1TC61Q15	82	230/460	3.0	5000	1.00	16.03	2000 : 1	S, US, 12
1.5	1800	145TC	LM26278	C/A	3,380	SSN4S1.5TC61Q15	85	230/460	4.8	5000	1.00	17.03	2000 : 1	S, US, 12
2	1800	182TC	LM03987	✓	3,482	AAN4S2TC61Q15	98	230/460	6.0	4800	1.00	18.34	2000 : 1	A, US, 12
3	1800	184TC	LM03995	✓	3,767	AAN4S3TC61Q15	110	230/460	8.4	4800	1.00	19.34	2000 : 1	A, US, 12
5	1800	213TC	LM04003	C/A	4,063	AAN4S5TC61Q15	115	230/460	15.6	4600	1.00	21.14	2000 : 1	A, US, 12
7.5	1800	215TC	LM31463	C/A	4,829	AN4S7.5TC61Q15	155	230/460	21.0	4600	1.00	23.48	2000 : 1	A, US, 12
10	1800	256TC	LM30572	C/A	5,082	AN4S10TC61Q15	235	230/460	27.0	4400	1.00	—	2000 : 1	A, US, 12
25	1800	284T	LM03189	C/A	7,495	SB4H25T61Q15	350	230/460	62.0	4200	1.00	40.69	2000 : 1	S, US, 11
30	1800	286T	LM03237	C/A	8,357	SB6H30T61Q15	420	230/460	74.0	4200	1.00	—	2000 : 1	S, US, 11
40	1800	324T	LM03285	C/A	10,659	SB4H40T61Q15	550	230/460	98.0	4000	1.00	43.41	2000 : 1	S, US, 11
50	1800	326T	LM03333	C/A	11,758	SB4H50T61Q15	550	230/460	—	4000	1.00	—	2000 : 1	S, US, 11
60	1800	364T	LM03377	C/A	13,490	SB4H60T61YQ15	690	230/460	—	3800	1.00	—	2000 : 1	S, US, 11
75	1800	365T	LM03425	C/A	15,590	SB4P75T61YQ15	740	230/460	180.0	3800	1.00	49.29	2000 : 1	S, US, 11
100	1800	405T	LM03473	C/A	22,683	SB4H100T61YQ15	1000	230/460	240.0	3600	1.00	53.23	2000 : 1	S, US, 11
125	1800	444T	LM03517	C/A	29,592	SB4H125T64YQ15	1290	460	—	3000	1.00	—	2000 : 1	S, US, 11
150	1800	445T	LM03565	C/A	34,941	SB4H150T64YQ15	1490	460	165*	3000	1.00	59.85	2000 : 1	S, US, 11
200	1800	445T	LM03597	C/A	36,842	SB4H200T64YQ15	1500	460	—	3000	1.00	—	2000 : 1	S, US, 11

* Amps at 460 Volt

♥ Note listing on inside back flap

▼ LM Numbers are Lincoln Models

Note 11 - TEBC

Note 12 - TENV

C/A - Check Availability

Specifications are subject to change without notice



View On-line Technical Information

Inverter Duty Motors

Inverter Duty Motors - 4 :1 Speed Range - Totally Enclosed

Features:

- Inverter duty insulation system
- Constant HP range at 2x base speed 56 - 256T frames
- Constant HP range at 1.5x base speed 284T - 445T frames
- No mounting available for encoder devices
- Normally closed thermostats
- Steel and Aluminum frame construction - see Notes
- Precision balanced rotors



Three Phase - Totally Enclosed - Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	Max. RPM	Service Factor	% F.L. Eff.	"C" Dim. (Inches)	Inverter speed range	♥ Notes
1/2	1800	56	LM22648	C/A	669	SRF4S0.5T61Q40	28	230/460	2.4	4000	1.00	74.0	11.82	4:1	S, US
3/4	1800	56	LM22654	C/A	682	SRF4S0.75T61Q40	28	230/460	3.0	4000	1.00	77.0	11.82	4:1	S, US
1	1800	56	LM22660	✓	703	SRF4S1T61Q40	28	230/460	3.6	4000	1.00	78.5	12.32	4:1	S, US
	1800	143T	LM26097	C/A	789	SSF4P1T61Q40	46	230/460	3.0	4000	1.00	82.5	12.87	4:1	S, US
1 1/2	1800	56H	LM22664	C/A	775	SRF4S1.5T61Q40	28	230/460	5.0	4000	1.00	80.0	13.52	4:1	S, US
	1800	145T	LM26098	C/A	798	SSF4P1.5T61Q40	51	230/460	5.0	4000	1.00	84.0	13.87	4:1	S, US
2	1800	145T	LM25991	C/A	831	SSF4P2T61Q40	51	230/460	6.0	4000	1.00	84.0	14.37	4:1	S, US
3	3600	182T	LM21189	C/A	1,093	AAF2P3T61Q40	83	230/460	7.4	4000	1.00	85.5	14.19	4:1	A, US
	1800	182T	LM21190	✓	1,009	AAF4P3T61Q40	83	230/460	8.4	4000	1.00	87.5	14.19	4:1	A, US
5	3600	184T	LM21192	C/A	1,271	AAF2P5T61Q40	92	230/460	12.4	4000	1.00	87.5	15.19	4:1	A, US
	1800	184T	LM21193	✓	1,123	AAF4P5T61Q40	92	230/460	13.4	4000	1.00	87.5	16.19	4:1	A, US
7 1/2	3600	213T	LM21195	C/A	1,718	AF2P7.5T61Q40	127	230/460	18.0	4600	1.00	88.5	18.30	4:1	A, US
	1800	213T	LM21196	✓	1,593	AF4P7.5T61Q40	127	230/460	20.0	4600	1.00	89.5	17.20	4:1	A, US
10	3600	215T	LM21198	C/A	1,880	AF2P10T61Q40	138	230/460	24.0	4600	1.00	89.5	18.25	4:1	A, US
	1800	215T	LM21199	✓	1,750	AF4P10T61Q40	138	230/460	25.4	4600	1.00	89.5	18.70	4:1	A, US
15	3600	254T	LM21201	✓	2,510	AAF2P15T61Q40	209	230/460	35.0	4400	1.00	90.2	23.40	4:1	A, US
	1800	254T	LM21202	✓	2,379	AF4P15T61Q40	209	230/460	39.0	4400	1.00	91.0	23.40	4:1	A, US
20	3600	256T	LM21204	C/A	2,880	AF2P20T61Q40	236	230/460	47.0	4400	1.00	90.2	26.10	4:1	A, US
	1800	256T	LM21205	✓	2,756	AF4P20T61Q40	236	230/460	50.0	4400	1.00	91.0	25.15	4:1	A, US
25	1800	284T	LM21208	C/A	3,825	AF4P25T61YQ40	363	230/460	66.0	4200	1.00	92.4	26.62	4:1	A, US
30	1800	286T	LM21211	✓	4,234	AF4P30T61YQ40	408	230/460	76.0	4200	1.00	92.4	28.12	4:1	A, US
40	1800	324T	LM21214	✓	5,839	SF4P40T61YQ40	504	230/460	106.0	4000	1.00	93.0	28.50	4:1	S, US
50	1800	326T	LM21217	✓	6,392	SF4P50T61YQ40	558	230/460	129.0	4000	1.00	93.0	30.00	4:1	S, US
60	1800	364T	LM21220	✓	8,535	SF4P60T61YQ40	765	230/460	145.0	3800	1.00	93.6	31.90	4:1	S, US
75	1800	365T	LM21223	C/A	10,842	SF4P75T61YQ40	822	230/460	187.0	3800	1.00	94.1	32.90	4:1	S, US
100	1800	405T	LM21227	C/A	14,044	SF4P100T61YQ40	1002	230/460	244.0	3600	1.00	94.5	38.40	4:1	S, US
125	1800	444T	LM21230	C/A	17,447	SF4P125T64YQ40	1351	460	146*	3000	1.00	94.5	41.58	4:1	S, US
150	1800	445T	LM21233	C/A	20,183	SF4P150T64YQ40	1504	460	168*	3000	1.00	95.0	43.58	4:1	S, US
200	1800	445T	LM21236	C/A	24,010	SF4P200T64YQ40	1504	460	228*	3000	1.00	95.0	43.58	4:1	S, US
250	1800	447T	LM21238	C/A	28,894	SF4P250T64YQ40	1812	460	283*	2800	1.00	95.0	47.08	4:1	S, US
300	1800	449T	LM21239	C/A	31,272	SF4P300T64YQ40	2315	460	349*	2800	1.00	95.4	52.08	4:1	S, US
350	1800	449T	LM21244	C/A	30,875	SF4P350T64YQ40	2185	460	395*	2800	1.00	95.4	52.08	4:1	S, US

▼ LM Numbers are Lincoln Models

♥ Note listing on inside back flap

C/A - Check Availability

Specifications are subject to change without notice

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Tech Information

Single Phase
ODP Motors

Single Phase
TEFC Motors

Single Phase
C Face Motors

Three Phase
ODP Motors

Three Phase
TEFC Motors

Three Phase
C Face Motors

Inverter Duty
Motors

Severe Duty
Motors

Inverter Duty Motors

Inverter Duty Motors - 4 :1 Speed Range - Totally Enclosed

Three Phase - Totally Enclosed - Rigid C Face

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	Max. RPM	Service Factor	% F.L. Eff.	"C" Dim. (Inches)	Inverter speed range	♥Notes
1/3	1800	56C	LM22645	✓	634	SRF4S0.33TC61Q40	33	230/460	1.6	4000	1.00	72.0	11.31	4:1	S, US
1/2	1800	56C	LM22649	✓	723	SRF4S0.5TC61Q40	33	230/460	2.4	4000	1.00	74.0	11.81	4:1	S, US
3/4	3600	56C	LM22653	C/A	650	SRF2S0.75TC61Q40	33	230/460	3.4	4000	1.00	74.0	11.81	4:1	S, US
	1800	56C	LM22655	✓	734	SRF4S0.75TC61Q40	33	230/460	3.0	4000	1.00	77.0	11.81	4:1	S, US
	1200	56C	LM22657	C/A	862	SRF6S0.75TC61Q40	28	230/460	3.4	4000	1.00	72.0	12.81	4:1	S, US
1	3600	56C	LM22659	C/A	734	SRF2S1TC61Q40	33	230/460	3.7	4000	1.00	75.5	11.81	4:1	S, US
	1800	56C	LM22661	✓	754	SRF4S1TC61Q40	28	230/460	3.0	4000	1.00	78.5	11.81	4:1	S, US
	1800	143TC	LM26081	C/A	843	SSF4P1TC61Q40	52	230/460	3.0	4000	1.00	82.5	12.87	4:1	S, US
	1200	145TC	LM26323	C/A	1,006	SSF6P1TC61Q40	57	230/460	3.8	4000	1.00	80.0	14.87	4:1	S, US
1 1/2	1800	56HC	LM22665	C/A	827	SRF4S1.5TC61Q40	36	230/460	5.0	4000	1.00	80.0	13.32	4:1	S, US
	1800	145TC	LM26008	C/A	849	SSF4P1.5TC61Q40	57	230/460	4.8	4000	1.00	84.0	13.87	4:1	S, US
2	1800	145TC	LM25962	✓	904	SSF4P2TC61Q40	57	230/460	6.0	4000	1.00	84.0	14.37	4:1	S, US
3	3600	182TC	LM22826	C/A	1,174	AAF2P3TC61Q40	95	230/460	7.4	4000	1.00	85.5	14.83	4:1	A, US
	1800	182TC	LM22827	✓	1,090	AAF4P3TC61Q40	95	230/460	8.4	4000	1.00	87.5	14.83	4:1	A, US
5	1800	184TC	LM22830	✓	1,207	AAF4P5TC61Q40	104	230/460	13.4	4000	1.00	87.5	16.83	4:1	A, US
7 1/2	1800	213TC	LM22833	C/A	1,510	AAF4P7.5TC61Q40	138	230/460	20.0	4600	1.00	89.5	17.95	4:1	A, US
10	1800	215TC	LM22836	C/A	1,750	AF4P10TC61Q40	149	230/460	25.4	4600	1.00	89.5	19.45	4:1	A, US
15	1800	254TC	LM22839	✓	2,503	AF4P15TC61Q40	221	230/460	39.0	4400	1.00	91.0	23.40	4:1	A, US
20	1800	256TC	LM22841	✓	2,881	AF4P20TC61Q40	248	230/460	50.0	4400	1.00	91.0	25.15	4:1	A, US

▼ LM Numbers are Lincoln Models

♥ Note listing on inside back flap

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Specifications are subject to change without notice



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Features:

- Variable torque speed range with open loop drive of 0-60 Hz
- Constant horsepower speed range of 2x base speed
- Ultimate Spike Defense™ Insulation System
- 1.00 service factor on PWM waveform,
- 1.15 service factor or better on sine-wave power.
- Precision dynamic balanced rotor assembly
- Thermal overload protection (Class F thermostats)

Three Phase - Drip-Proof - Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	Max. RPM	Service Factor	% F.L. Eff.	"C" Dim. (Inches)	Inverter speed range	♥ Notes
1	1800	143T	LM21148	C/A	726	SSD4P1T61Q40	55	230/460	3.1	5000	1.00	82.5	12.49	10:01	S, US
1 1/2	1800	145T	LM21151	C/A	758	SSD4P1.5T61Q40	68	230/460	4.4	5000	1.00	84.0	12.49	10:01	S, US
2	1800	145T	LM21153	✓	800	SSD4P2T61Q40	68	230/460	5.8	5000	1.00	84.0	12.49	10:01	S, US
3	1800	182T	LM21157	C/A	907	SSD4P3T61Q40	82	230/460	8.6	4800	1.00	86.5	13.72	10:01	S, US
5	1800	184T	LM21159	✓	1,160	SSD4P5T61Q40	71	230/460	13.2	4800	1.00	87.5	13.19	10:01	S, US
7 1/2	1800	213T	LM21162	C/A	1,331	SSD4P7.5T61Q40	141	230/460	19.4	4600	1.00	88.5	17.29	10:01	S, US
10	1800	215T	LM21165	✓	1,565	SSD4P10T61Q40	168	230/460	25.0	4600	1.00	89.5	17.29	10:01	S, US
15	1800	254T	LM21168	✓	2,234	SSD4P15T61Q40	245	230/460	41.0	4400	1.00	91.0	22.32	10:01	S, US
20	1800	256T	LM21171	✓	2,472	SSD4P20T61Q40	255	230/460	52.0	4400	1.00	91.0	22.32	10:01	S, US
25	1800	284T	LM29579	✓	3,247	CCD4P25T61YQ40	350	230/460	61.0	4000	1.00	91.7	23.49	10:01	C, US
30	1800	286T	LM29936	✓	3,695	CCD4P30T61YQ40	400	230/460	72.0	4000	1.00	92.4	24.99	10:01	C, US
40	1800	324T	LM21180	✓	5,023	SD4P40T61YQ40	469	230/460	106.0	4000	1.00	93.0	25.82	10:01	S, US
50	1800	326T	LM21118	C/A	5,611	SD4P50T61YQ40	522	230/460	130.0	4000	1.00	93.0	27.32	10:01	S, US
60	1800	364T	LM21121	C/A	7,244	SD4P60T61YQ40	595	230/460	145.0	3600	1.00	94.0	28.40	10:01	S, US
75	1800	365T	LM21124	C/A	10,164	SD4P75T61YQ40	763	230/460	176.0	3800	1.00	94.1	32.90	10:01	S, US
100	1800	404T	LM21127	✓	10,205	SD4P100T61YQ40	882	230/460	244.0	3600	1.00	94.1	31.81	10:01	S, US
125	1800	405T	LM30727	✓	10,350	SD4P125T61YQ40	958	230/460	304.0	3600	1.00	94.5	33.31	10:01	S, US

▼ LM Numbers are Lincoln Models

♥ Note listing on inside back flap

C/A - Check Availability

Specifications are subject to change without notice

View On-line Technical Information



Inverter Duty Motors

SUB-FHP MOTORS - Inverter Rated - Three Phase

Features:

- Designed with the exclusive Inverter Rated Insulation System (IRIS)
- Provides superior protection against voltage spikes induced by variable frequency drives
- Double shielded motor ball bearings
- Needle bearings in the parallel shaft gearboxes
- Steel conduit box provided as standard
- Finished in high gloss hardened black enamel paint

Application Notes:

- Designed with high temperature insulation (Class F) to prevent overheating when operated with a PWM inverter down to a 10:1 speed range from the printed motor's speed range

Three Phase - Totally Enclosed - Rigid Base - C Face With Base

HP	SYN RPM 60 Hz	Frame	Catalog Number	Stock	List Price	Model Number	Voltage	F. L. Amps @ 230 V	♥ Notes
1/15	1725	38	M1140171.00	✓	352	CM38T17NK1	230	0.4	S, US, 12
1/6	1725	38	M1140173.00	C/A	380	CM38T17NK2	230	0.7	S, US, 12
1/4	1725	38	M1140172.00	✓	408	CM38T17FK3	230	1.1	S, US, 13

C/A - Check Availability

♥ Note listing on inside back flap

Note 12 - TENV

Specifications are subject to change without notice

38 Frame NEMA C Face With Base Dimensions

Catalog Number	AG	P	U	AH	BB	AJ	TAP	R	AK	BB	D	BA	E	F	H
M1140171.00	5.14	3.85	0.5	1.63	1	3.75	1/4-20	4.3	3.0	0.13	3.0	2.50	2.125	1.375	11/32 Slot
M1140173.00	6.14	3.85	0.5	1.63	1	3.75	1/4-20	4.3	3.0	0.13	3.0	2.50	2.125	1.375	11/32 Slot
M1140172.00	7.56	4.43	0.5	1.63	1	3.75	1/4-20	4.3	3.0	0.13	3.0	2.50	2.125	1.375	11/32 Slot

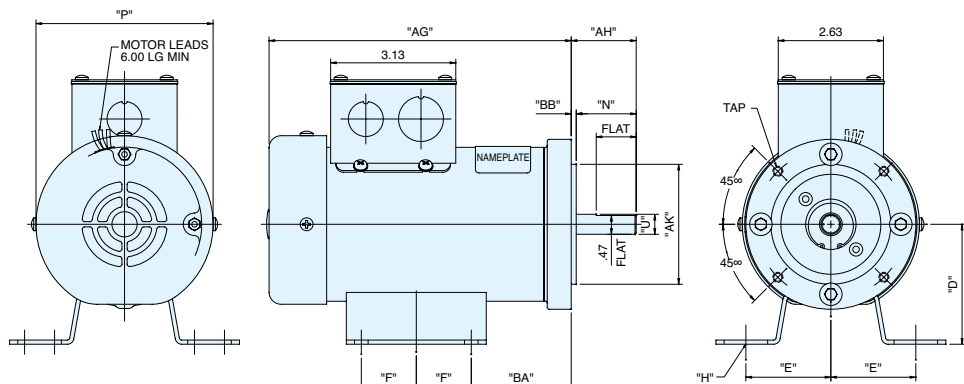
Specifications are subject to change without notice

AC 38 48C

Both motors only and gearmotors will have inverter rated printed on the nameplate.

UL and CSA recognition for both motors only and gearmotors.

ALL DIMENSIONS IN INCHES



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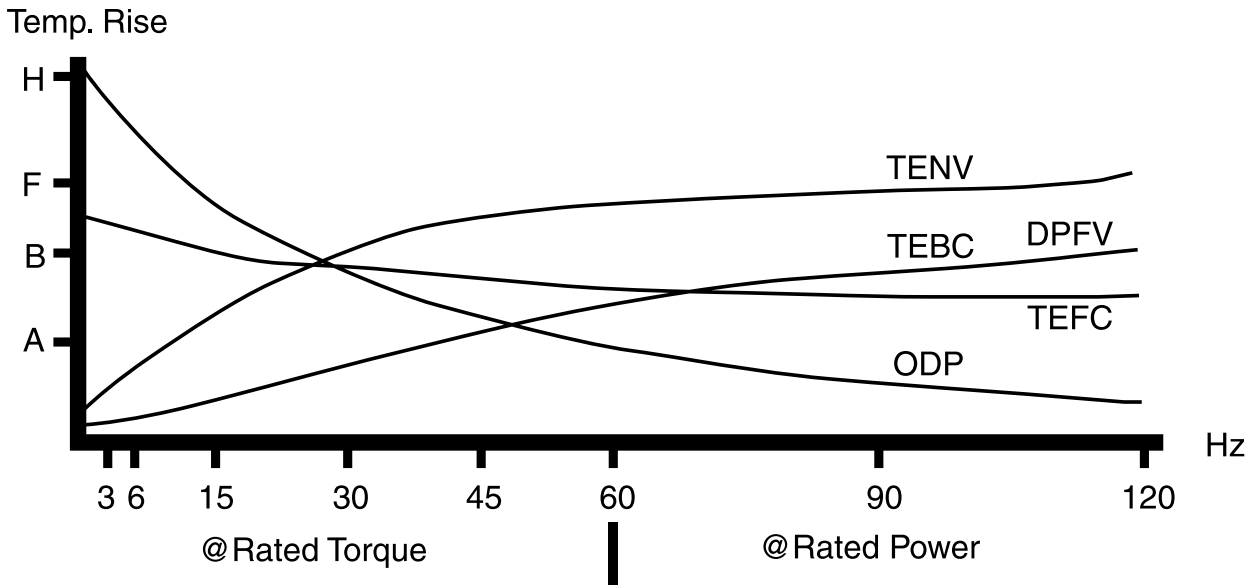


Other Application Considerations -

For proper selection, the following should be considered:

- Horsepower or torque requirements at various speeds
- Desired speed range of the load and motor
- Acceleration and deceleration rate requirements of the process being controlled
- Starting requirements including the frequency of starting and a description of the load (reflected inertia at the motor, load torque during starting)
- Whether the application is a continuous process or duty cycle of starts, stops and speed changes
- A general description of the type of application including the environment in which the VFD system components must operate (determines motor enclosure and/or explosion proof classification)
- Description of the available electrical power supply and wiring
- Special performance requirements, if any
- Whether the drive will be configured with a by-pass circuit. In case of its deployment, the motor will operate like its fixed speed counterpart and may require a NEMA B design which limits in-rush current, or selection of a larger motor starter or other protective circuitry
- Load sharing
- Mounting and other mechanical considerations

Typical Temperature Rise Of Various Enclosures



Severe Duty Motors

IEEE-841 Severe Duty Motors & Lincoln Encapsulated Multiguard® Motors



- IEEE-841 motors available – 5-year warranty
- 3-year warranty on Premium efficient models
- Dual voltage designs
- 1.15 or 1.25 service factors
- Epoxy painted ratings
- Cast iron and steel frame construction
- Internal corrosion protection
- Inverter rated
- Shaft seals where applicable
- UL and CSA recognized
- 5-year warranty on IEEE 841 models

Applications:

Used in severe duty environments that you may find in foundries, pulp, paper mills, waste management facilities, above ground mines, refineries or other applications that demand corrosion protection for long motor life and dependability.



General Specifications:

Designed for harsh environments that you may find in refineries, above-ground mines, foundries, paper and pulp mills, cement plants or other severe duty applications.

Features:

- Inpro shaft seals
- Inverter rated insulation system
- Re-greasable bearings
- Epoxy paint
- Test data supplied with each motor
- IP 56 enclosure protection
- Tested to IEEE45 USCG Marine Duty, API RP14F for offshore platforms
- Division 2 CSA certification for hazardous locations, Class 1 Groups A, B, C, D, temperature Code T2B
- 5-year warranty



Three Phase - TEFC - Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 460 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	Notes
1	1800	143T	811541.00	✓	919	143THTN9026	55	460	1.5	85.5	1.15	10.40	C, US
1 1/2	3600	143T	811542.00	✓	1,139	145THTN9005	58	460	2.0	86.5	1.15	10.40	C, US
	1800	145T	811543.00	✓	1,055	145THTN9026	65	460	2.2	84.0	1.15	11.40	C, US
2	3600	145T	811544.00	✓	1,196	145THTN9001	68	460	2.5	85.5	1.15	11.40	C, US
	1800	145T	811545.00	✓	1,105	145THTN9027	68	460	3.0	85.5	1.15	11.40	C, US
3	3600	182T	811546.00	✓	1,731	182THTS19005	105	460	3.8	87.5	1.15	12.70	C, US
	1800	182T	811547.00	✓	1,468	182THTS19041	100	460	4.0	90.2	1.15	12.70	C, US
5	3600	184T	811548.00	✓	1,860	184THFS19010	142	460	5.9	89.5	1.15	16.20	C, US
	1800	184T	811549.00	✓	1,714	184THFS19045	130	460	6.2	90.2	1.15	16.20	C, US
7 1/2	3600	213T	811550.00	✓	2,196	213THTS19008	200	460	8.9	91.7	1.15	17.20	C, US
	1800	213T	811551.00	✓	2,079	213THFS19044	200	460	9.6	91.7	1.15	19.70	C, US
10	3600	215T	811552.00	✓	2,567	215THFS19011	218	460	11.2	91.7	1.15	21.00	C, US
	1800	215T	811553.00	✓	2,517	215THFS19051	225	460	12.5	91.7	1.15	19.70	C, US
15	3600	254T	811554.00	✓	3,181	254THFNA19014	345	460	17.5	91.7	1.15	23.50	C, US
	1800	254T	811555.00	✓	3,024	254THFNA19052	350	460	18.8	92.4	1.15	23.50	C, US
20	3600	256T	811556.00	✓	3,930	256THFNA19004	375	460	23.4	92.4	1.15	25.30	C, US
	1800	256T	811557.00	✓	3,760	256THFNA19050	425	460	24.1	93.0	1.15	25.30	C, US
25	3600	284TS	811558.00	✓	4,878	284TSHFNA19009	481	460	28.1	93.6	1.15	25.00	C, US
	1800	284T	811559.00	✓	4,456	284THFNA19043	478	460	31.0	93.6	1.15	26.30	C, US
30	3600	286TS	811560.00	✓	5,989	286TSHFNA19002	500	460	33.8	93.6	1.15	26.40	C, US
	1800	286T	811561.00	✓	5,428	286THFNA19051	525	460	36.5	94.1	1.15	27.80	C, US
40	3600	324TS	811562.00	✓	7,953	324TSHFS19007	656	460	47.0	93.6	1.15	27.40	C, US
	1800	324T	811563.00	✓	7,431	324THFS19045	700	460	47.5	94.1	1.15	28.90	C, US
50	3600	326TS	811564.00	✓	10,248	326TSHFS19005	725	460	58.0	93.6	1.15	28.90	C, US
	1800	326T	811565.00	✓	8,898	326THFS19057	775	460	60.0	94.5	1.15	30.40	C, US
60	3600	364TS	811566.00	✓	12,326	364TSHFS19006	925	460	67.0	94.5	1.15	29.40	C, US
	1800	364T	811567.00	✓	11,730	364THFS19047	1000	460	69.0	95.0	1.15	31.50	C, US
75	3600	365TS	811568.00	✓	15,543	365TSHFS19005	1002	460	84.0	94.5	1.15	30.40	C, US
	1800	365T	811569.00	✓	15,071	365THFS19052	1100	460	86.0	95.4	1.15	32.50	C, US
100	3600	405TS	811570.00	✓	21,053	405TSHFS19006	1295	460	108.0	95.0	1.15	34.10	C, US
	1800	405T	811571.00	✓	18,381	405THFS19060	1330	460	113.0	95.4	1.15	37.10	C, US
125	3600	444TS	811586.00	✓	23,967	444TSHFN19003	1682	460	142.0	95.0	1.15	39.64	C, US
	1800	444T	811587.00	✓	22,315	444THFN19055	1725	460	141.0	95.4	1.15	41.25	C, US
150	3600	445TS	811588.00	✓	28,790	445TSHFN19005	2187	460	165.0	95.8	1.15	39.37	C, US
	1800	445T	811589.00	✓	24,741	445THFN19072	2070	460	172.0	95.8	1.15	43.19	C, US
200	3600	445TS	811590.00	✓	36,420	445TSHFN19006	2300	460	223.0	95.8	1.15	39.37	C, US
	1800	445T	811591.00	✓	30,090	445THFN19074	2437	460	226.0	96.2	1.15	43.19	C, US
250	3600	447/9TS	811592.00	✓	45,931	449TSHFS19008	2635	460	270.0	96.5	1.15	47.94	C, US
	1800	447/9T	811593.00	✓	43,414	449THFS19344	2834	460	285.0	96.5	1.15	51.69	C, US
300	1800	447/9T	811594.00	C/A	44,283	449THFS19345	3039	460	390.0	96.5	1.15	51.84	C, US
350	3600	447/9TS	811595.00	C/A	68,273	449TSHFS19009	2888	460	380.0	96.2	1.15	47.94	C, US
	1800	447/9T	811596.00	C/A	56,291	449THFS19346	3082	460	450.0	96.2	1.15	51.84	C, US

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♥ Note listing on inside back flap

Specifications are subject to change without notice

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Tech Information

Single Phase
ODP Motors

Single Phase
TEFC Motors

Single Phase
C Face Motors

Three Phase
ODP Motors

Three Phase
TEFC Motors

Three Phase
C Face Motors

Inverter Duty
Motors

Severe Duty
Motors

Severe Duty Motors

Severe Duty - Wattsaver® Plus



General Specifications:

Designed specifically to meet severe duty environments that you may find in applications such as chemical plants, foundries, pulp and paper mills, waste management facilities and above ground mines.

Features:

- Full cast iron construction
- Inverter rated insulation system
- Epoxy painted
- Shaft seals both ends
- Internal corrosion protection
- IP 55 enclosure protection
- Division 2 CSA certification for hazardous locations, Class 1 Groups A, B, C, D, temperature Code T2B
- 3-year warranty

Three Phase - TEFC - Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥ Notes
3	1800	182T	171623.60	✓	1157	C184T17FB1	112	208-230/460	7.8	90.2	1.25	16.60	C, CN
	1200	213T	171634.60	✓	1632	C213T11FW1	93	208-230/460	9.4	89.5	1.25	18.70	C, CN
5	1800	184T	171630.60	✓	1198	C184T17FB1	120	208-230/460	12.8	89.5	1.15	17.30	C, CN
	1200	215T	171635.60	✓	1826	C215T11FW1	186	208-230/460	14.4	89.5	1.25	20.10	C, CN
7 1/2	3600	213T	171616.60	✓	1663	C213T34FW1	155	208-230/460	18.0	91.0	1.25	18.70	C, CN
	1800	213T	171622.60	✓	1605	C213T11FW1	165	208-230/460	18.6	91.7	1.25	18.70	C, CN
	1200	254T	171636.60	✓	2374	C254T11FW1	263	208-230/460	22.2	91.7	1.25	23.70	C, CN
10	3600	215T	171617.60	✓	1973	C215T34FW1	190	208-230/460	23.0	91.7	1.25	20.10	C, CN
	1800	215T	171631.60	✓	1913	C215T17FB1	187	208-230/460	25.0	91.7	1.25	20.10	C, CN
	1200	256T	171637.60	✓	3394	C256T11FB1	312	208-230/460	29.0	91.7	1.25	25.40	C, CN
15	3600	254T	171620.60	✓	2682	C254T34FW1	294	208-230/460	34.6	92.4	1.25	23.70	C, CN
	1800	254T	171632.60	✓	2594	C254T17FW1	294	208-230/460	36.0	92.4	1.25	23.70	C, CN
	1200	284T	171638.60	✓	4595	C284T11FW1	346	208-230/460	40.6	92.4	1.25	26.80	C, CN
20	3600	256T	171621.60	✓	3277	C256T34FW1	330	208-230/460	46.0	92.4	1.25	25.40	C, CN
	1800	256T	171633.60	✓	3239	C256T17FW1	335	208-230/460	49.0	93.0	1.15	25.40	C, CN
	1200	286T	171639.60	✓	5741	C286T11FW1	405	208-230/460	54.0	92.4	1.25	28.30	C, CN
25	3600	284TS	171778.60	✓	4000	C284T34FB11	403	208-230/460	56.8	93.0	1.15	24.88	C, CN
	1800	284T	171779.60	✓	3778	C284T17FB14	405	208-230/460	59.0	93.6	1.15	26.26	C, CN
	1200	324T	171780.60	✓	6313	C324T11FB16	566	208-230/460	66.0	93.6	1.15	29.53	C, CN
30	3600	286TS	171781.60	✓	4722	C286T34FB10	435	208-230/460	67.0	93.0	1.15	26.46	C, CN
	1800	286T	171782.60	✓	4401	C286T17FB12	455	208-230/460	70.0	94.1	1.15	27.83	C, CN
	1200	326T	171783.60	✓	7086	C326T11FB12	636	208-230/460	77.0	93.6	1.15	31.02	C, CN
40	3600	324TS	171784.60	✓	5889	C324T34FB9	522	208-230/460	89.0	93.6	1.25	28.03	C, CN
	1800	324T	171785.60	✓	5847	C324T17FB12	553	208-230/460	92.0	94.1	1.15	29.53	C, CN
	1200	364T	171786.60	✓	9714	C364T11FB14	803	208-230/460	102.0	94.1	1.15	32.64	C, CN

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Severe Duty Motors

Severe Duty - Wattsaver® Plus

Three Phase - TEFC - Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
50	3600	326TS	171787.60	✓	7152	C326T34FB10	578	208-230/460	111.0	94.5	1.25	29.53	C, CN
	1800	326T	171788.60	✓	7062	C326T17FB13	612	208-230/460	117.0	94.5	1.15	31.02	C, CN
	1200	365T	171789.60	✓	11658	C365T11FB14	698	208-230/460	124.0	94.1	1.15	33.62	C, CN
60	3600	364TS	171790.60	✓	10610	C634T34FB9	770	208-230/460	136.0	94.1	1.15	30.51	C, CN
	1800	364T	171791.60	✓	10044	C364T17FB12	903	208-230/460	137.0	95.4	1.15	32.64	C, CN
	1200	404T	171792.60	✓	13750	C404T11FB11	1050	208-230/460	142.0	94.5	1.25	36.42	C, CN
75	3600	365TS	171793.60	✓	12996	C365T34FB9	822	208-230/460	169.0*	94.5	1.15	31.50	C, CN
	1800	365T	171794.60	✓	12534	C365T17FB11	1050	208-230/460	171.0*	95.8	1.15	33.62	C, CN
	1200	405T	171795.60	✓	14493	C405T11FB12	1020	208-230/460	176.0*	95.0	1.15	38.91	C, CN
100	3600	405TS	171796.60	✓	16002	C405T34FB11	1018	208-230/460	218.0*	95.0	1.15	35.92	C, CN
	1800	405T	171797.60	✓	15587	C405T17FB10	1121	208-230/460	225.0*	95.4	1.15	39.40	C, CN
	1200	444T	171798.60	✓	20632	C444T11FB11	1480	460	121.0*	95.0	1.15	43.87	C, CN
125	3600	444TS	171799.60	✓	19107	C444T34FB12	1405	460	132.0*	95.0	1.15	41.10	C, CN
	1800	444T	171800.60	✓	20695	C444T17FB12	1605	460	137.0*	95.4	1.15	43.87	C, CN
	1200	445T	171801.60	✓	23312	C445T11FB9	1630	460	155.0*	95.4	1.15	45.88	C, CN
150	3600	445TS	171802.60	✓	23582	C445T34FB7	1560	460	161.0*	95.0	1.15	45.88	C, CN
	1800	445T	171803.60	✓	23677	C445T17FB14	1670	460	163.0*	95.8	1.15	45.88	C, CN
	1200	447T	171804.60	✓	26287	C447T11FB7	2270	460	185.0*	95.8	1.15	49.00	C, CN
200	3600	447TS	171805.60	✓	27160	C447T34FB7	2135	460	216.0*	95.4	1.15	49.00	C, CN
	1800	447T	171806.60	✓	27118	C447T17FB11	2820	460	216.0*	96.2	1.15	49.00	C, CN
	1200	449T	171807.60	✓	34431	C449T11FB7	2590	460	241.0*	96.2	1.15	53.80	C, CN

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Single Phase
ODP Motors

Single Phase
TEFC Motors

Single Phase
C Face Motors

Three Phase
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C Face Motors

Inverter Duty
Motors

Severe Duty
Motors

Severe Duty Motors

Lincoln Severe Duty

General Specifications:

Cast iron designed motors that are designed for use in pulp and paper mills, foundries, chemical plants or any severe duty application.

Features:

- Meets Ford EM1-1996 Spec.
- 460 volt - 3 lead designs
- Full cast iron construction
- Class F insulation
- Shielded ball bearing construction



Three Phase - TEFC - Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥ Notes
1	1800	143T	LM32856	C/A	893	CCS4B1T61	59	230/460	3.3	85.5	1.15	—	C, US
	1200	145T	LM32857	C/A	1,112	CCS6B1T61	57	230/460	3.6	82.5	1.15	—	C, US
2	1800	145T	LM32862	✓	994	CCS4B2T61	64	230/460	6.0	86.5	1.25	14.30	C, US
3	1800	182T	LM16644	✓	1,208	CCS4B3T61T5	104	230/460	8.0	90.2	1.25	15.20	C, US
5	1800	184T	LM16650	C/A	1,321	CCS4B5T61T5	138	230/460	12.4	90.2	1.15	16.20	C, US
7 1/2	1800	213T	LM32869	✓	1,723	CCS4B7.5T61	223	230/460	19.4	91.7	1.15	19.70	C, US
10	1800	215T	LM16919	C/A	2,177	CCS4B10T61	213	230/460	25.0	91.7	1.25	—	C, US
15	1800	254T	LM32873	C/A	2,727	CCS4B15T61	322	230/460	37.5	92.4	1.15	—	C, US
20	1800	256T	LM32876	✓	3,516	CCS4B20T61	368	230/460	48.0	93.0	1.15	25.30	C, US
25	1800	284T	LM32879	✓	4,139	CCS4B25T61Y	495	230/460	62.0	93.6	1.25	26.30	C, US
30	1800	286T	LM32882	C/A	4,890	CCS4B30T61Y	519	230/460	73.0	93.6	1.15	—	C, US
40	1800	324T	LM32885	C/A	6,457	CCS4B40T61Y	835	230/460	—	94.1	1.15	—	C, US
50	1800	326T	LM32887	✓	7,520	CCS4B50T61Y	692	230/460	120.0	94.5	1.15	30.40	C, US
60	1800	364T	LM32890	C/A	12,158	CCS4B60T61Y	980	230/460	—	95.0	1.15	—	C, US
75	1800	365T	LM32893	C/A	13,794	CCS4B75T61Y	1018	230/460	172.0	95.4	1.15	32.50	C, US
100	1800	405T	LM32896	C/A	16,683	CCS4B100T61Y	1338	230/460	226.0	95.4	1.15	37.10	C, US
125	1800	444T	LM32899	C/A	21,244	CCS4B125T64Y	1874	460	*	95.4	1.15	—	C, US
150	1800	445T	LM32902	C/A	27,580	CCS4B150T64Y	2070	460	*	95.8	1.15	—	C, US
200	1800	449T	LM32905	C/A	31,379	CCS4B200T64Y	2305	460	224*	96.2	1.15	51.80	C, US
250	1800	449T	LM14643	C/A	33,582	CCS4P250T64Y	2572	460	290*	95.0	1.15	51.80	C, US
	1800	449T	LM17594	C/A	33,581	CCS4P250T64	2572	460	290*	95.0	1.15	51.80	C, US
300	1800	449T	LM14642	C/A	35,987	CCS4P300T64Y	2572	460	341*	95.4	1.15	51.80	C, US
	1800	449T	LM22909	C/A	35,987	CCS4P300T64	2572	460	*	95.4	1.15	—	C, US
350	1800	449T	LM14645	C/A	39,835	CCS4P350T64Y	2883	460	*	95.4	1.15	—	C, US
	1800	449T	LM17599	C/A	39,835	CCS4P350T64	2883	460	*	95.4	1.15	—	C, US
400	1800	449T	LM14644	C/A	50,797	CCS4P400T64Y	2883	460	*	95.8	1.15	—	C, US

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▼ LM Numbers are Lincoln Models

C/A - Check Availability

Specifications are subject to change without notice



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Severe Duty Motors

ODP-Encapsulated Multiguard®

General Specifications:

Multiguard motors utilize an ODP enclosure utilizing an impregnated and encapsulated process to seal the winding endcoils from contamination. This process protects the windings from moisture, vibration, and some chemical actions.

Features:

- Encapsulated windings
- Durable steel frame construction
- NEMA design B performance
- 284T - 405T: Y-delta start on either voltage
- 444T - 445T: Y-delta start and part-winding start
- 3-year warranty
- Made in the U.S.A.
- NOT FOR USE WITH VFDs
- Contact sales office for 50HZ ratings as the frame sizes will change from 60HZ



Three Phase - Drip-Proof - Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	Notes
15	1200	284T	LM03614	C/A	3,784	MD6S15T61	280	230/460	43.0	86.5	1.00	23.10	S, US
20	1200	286T	LM03631	✓	8,116	MD6S20T61	328	230/460	55.0	84.0	1.00	24.60	S, US
25	1800	284T	LM03618	✓	3,852	MD4S25T61	296	230/460	63.0	85.5	1.00	23.00	S, US
30	1800	286T	LM03636	✓	8,100	MD4S30T61	334	230/460	74.0	87.5	1.00	24.60	S, US
	1800	286TS	LM03637	C/A	8,100	MD4S30TS61	334	230/460	74.0	87.5	1.00	23.30	S, US
40	3600	286T	LM03651	C/A	5,429	MD2S40T61	350	230/460	97.0	87.0	1.00	24.60	S, US
	3600	286TS	LM03650	C/A	5,429	MD2S40TS61	350	230/460	97.0	87.0	1.00	23.20	S, US
	1800	324T	LM03669	✓	4,819	MD4S40T61	420	230/460	99.0	95.0	1.00	25.80	S, US
	1800	324TS	LM03670	C/A	4,819	MD4S40TS61	420	230/460	99.0	90.2	1.00	24.50	S, US
50	3600	324TS	LM03681	✓	5,766	MD2S50TS61	425	230/460	122.0	89.5	1.00	—	S, US
	1800	326T	LM03683	✓	5,121	MD4S50T61	476	230/460	124.0	89.5	1.00	27.30	S, US
60	3600	326TS	LM03691	C/A	6,660	MD2S60TS61	484	230/460	154.0	89.5	1.00	24.50	S, US
	1800	364T	LM03709	C/A	6,959	MD4S60T61	627	230/460	144.0	91.7	1.00	28.40	S, US
75	3600	364TS	LM03718	C/A	11,607	MD2S75TS61	644	230/460	171.0	91.0	1.00	26.30	S, US
	1800	365T	LM03729	✓	7,396	MD4S75T61	707	230/460	184.0	92.4	1.00	29.40	S, US
	1200	405T	LM03799	C/A	10,960	MD6S75T61	948	230/460	196.0	91.7	1.00	33.80	S, US
100	3600	365TS	LM03739	C/A	11,034	MD2S100TS61	712	230/460	244.0	90.2	1.00	27.30	S, US
	1800	404T	LM03791	C/A	9,843	MD4S100T61	865	230/460	230.0	94.1	1.00	32.30	S, US
125	3600	404TS	LM03797	C/A	13,642	MD2S125TS61	875	230/460	294.0	92.4	1.00	29.30	S, US
	1800	405T	LM03809	✓	11,176	MD4S125T61	972	230/460	290.0	94.1	1.00	33.80	S, US
	1800	405TS	LM03808	C/A	11,176	MD4S125TS61	972	230/460	290.0	94.1	1.00	30.80	S, US
150	3600	405TS	LM03815	C/A	13,723	MD2S150TS61	978	230/460	368.0	92.4	1.00	30.80	S, US
	1800	444T	LM03761	C/A	14,754	MD4S150T64PY	1230	460	175*	95.0	1.00	37.40	S, US
200	1800	445T	LM03773	C/A	18,005	MD4S200T64PY	1440	460	222*	94.1	1.00	39.60	S, US
250	1800	445T	LM03780	C/A	18,819	MD4S250T64PY	1500	460	293*	95.0	1.00	39.40	S, US
	1800	445TS	LM03779	C/A	18,819	MD4S250TS64PY	1500	460	293*	93.6	1.00	35.50	S, US

* Amps at 460 Volt

♥ Note listing on inside back flap

▼ LM Numbers are Lincoln Models

C/A - Check Availability

Specifications are subject to change without notice

View On-line Technical Information



Tech Information

Single Phase
ODP Motors

Single Phase
TEFC Motors

Single Phase
C Face Motors

Three Phase
ODP Motors

Three Phase
TEFC Motors

Three Phase
C Face Motors

Inverter Duty
Motors

Severe Duty
Motors

Severe Duty Motors

ODP-Encapsulated Multiguard®

Three Phase - Drip-Proof - C Face With Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
15	1200	284TC	LM03616	C/A	3,973	MD6S15TC61	287	230/460	43.0	86.5	1.00	23.20	S, US
20	1200	286TC	LM03633	C/A	8,162	MD6S20TC61	335	230/460	55.0	87.5	1.00	24.70	S, US
	1200	286TSC	LM03632	C/A	8,162	MD6S20TSC61	335	230/460	55.0	87.5	1.00	23.20	S, US
25	1800	284TC	LM03623	C/A	4,006	MD4S25TC61	303	230/460	63.0	85.5	1.00	23.20	S, US
30	1800	286TC	LM03643	✓	8,343	MD4S30TC61	343	230/460	74.0	87.5	1.00	24.70	S, US
40	1800	324TC	LM03673	C/A	5,592	MD4S40TC61	439	230/460	99.0	90.2	1.00	25.90	S, US
50	1800	326TC	LM03686	✓	5,703	MD4S50TC61	486	230/460	124.0	89.5	1.00	27.40	S, US
60	1800	364TC	LM03711	C/A	7,983	MD4S60TC61	639	230/460	144.0	91.7	1.00	28.40	S, US
	1800	364TSC	LM03713	C/A	7,983	MD4S60TSC61	639	230/460	144.0	91.7	1.00	26.30	S, US
75	1800	365TC	LM03730	C/A	8,953	MD4S75TC61	709	230/460	184.0	92.4	1.00	29.60	S, US
	1800	365TSC	LM03733	C/A	8,953	MD4S75TSC61	709	230/460	184.0	92.4	1.00	27.30	S, US
100	1800	404TC	LM03792	C/A	10,515	MD4S100TC61	881	230/460	230.0	94.1	1.00	32.20	S, US
	1800	404TSC	LM03794	C/A	10,510	MD4S100TSC61	881	230/460	230.0	94.1	1.00	29.20	S, US
125	1800	405TC	LM03810	✓	11,845	MD4S125TC61	988	230/460	290.0	93.0	1.00	32.20	S, US
	1800	405TSC	LM03812	✓	11,845	MD4S125TSC61	988	230/460	290.0	94.1	1.00	30.70	S, US
150	1800	444TSC	LM03763	C/A	15,582	MD4S150TSC64PY	1251	460	174*	92.4	1.00	33.00	S, US
200	1800	445TSC	LM03776	✓	18,834	MD4S200TSC64PY	1435	460	222*	94.5	1.00	35.00	S, US

* Amps at 460 Volt

♥ Note listing on inside back flap

▼ LM Numbers are Lincoln Models

C/A - Check Availability

Specifications are subject to change without notice

Three Phase - Drip-Proof - Double C Face/Double Shaft - With Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
25	1800	284TSC	LM03625	C/A	4,031	MD4S25TSC61	310	230/460	63.0	85.5	1.00	25.50	S, US
30	1800	286TC	LM03644	✓	4,369	MD4S30TCTMC61	348	230/460	75.0	89.5	1.00	29.10	S, US
40	1800	324TC	LM03674	C/A	5,589	MD4S40TCTMC61	440	230/460	99.0	90.2	1.00	31.00	S, US
	1800	324TSC	LM03675	C/A	5,587	MD4S40TSC61	440	230/460	99.0	90.2	1.00	28.50	S, US
50	1800	326TC	LM03687	C/A	5,891	MD4S50TCTMC61	496	230/460	124.0	89.5	1.00	32.50	S, US
	1800	326TSC	LM27884	C/A	5,891	MD4S50TSC61Y	496	230/460	124.0	89.5	1.00	30.20	S, US
60	1800	364TC	LM03714	C/A	8,123	MD4S60TCTMC61	651	230/460	144.0	91.7	1.00	33.50	S, US
	1800	364TSC	LM03715	C/A	8,124	MD4S60TSC61	651	230/460	154.0	92.4	1.00	30.50	S, US
75	1800	365TC	LM03735	✓	8,558	MD4S75TCTMC61	721	230/460	184.0	92.4	1.00	34.50	S, US
	1800	365TSC	LM03736	C/A	8,558	MD4S75TSC61	721	230/460	184.0	92.4	1.00	31.50	S, US
100	1800	404TSC	LM03795	C/A	11,080	MD4S100TSC61	897	230/460	250.0	94.1	1.00	34.00	S, US
125	1800	405TSC	LM03813	C/A	12,413	MD4S125TSC61	1004	230/460	302.0	93.6	1.00	35.50	S, US
	1200	445TSC	LM03771	C/A	19,157	MD6S125TSC64PY	1419	460	167.0*	94.1	1.00	41.00	S, US
150	1800	444TSC	LM03764	C/A	16,485	MD4S150TSC64PY	1272	460	175.0*	95.0	1.00	39.00	S, US

* Amps at 460 Volt

♥ Note listing on inside back flap

▼ LM Numbers are Lincoln Models

C/A - Check Availability

Specifications are subject to change without notice



View On-line Technical Information

CUSTOMIZED AND MODIFIED PRODUCTS

Custom Motors, Gearboxes & Gearmotors

LEESON is a leading designer and manufacturer of application-specific AC and DC motors and gearmotors in sub-fractional, fractional and integral horsepower sizes. We offer a database of over 30,000 custom designs, experienced application and design engineering teams to ensure the best, most cost-effective custom motor solution.

Custom Multi-Speed & Low-Speed Motors

LEESON's PDQ Modular Production Program utilizes specially designed and standard components to make almost any imaginable NEMA frame multi-speed or low-speed motor available when you need it. We pride ourselves on fast turnaround times on highly customized motors.

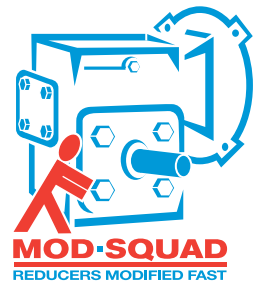
Custom motors include two, three and four-speed motors and speed ranges of 900, 720, 600, 450 and 300 RPMs. We also specialize in non-standard shaft designs. **For quotations, availability and application assistance, phone toll-free to our Canadian manufacturing facility at 1-800-463-1797.**

Mod-Squad Program

Quick-turnaround stock motor modifications are available through the LEESON Motor Mod-Squad. Adding cords or switches, changing mountings, extending leads and incorporating various severe-duty features are among the many standard modifications offered.

Modified stock gear reducers are offered on a quick-ship basis through the LEESON Gear Mod-Squad. A wide array of mountings, shaft extensions and other changes are available for 600 Series IRONMAN® reducers. In addition, modified stock Gear+Motor™ packages can be created, drawing on LEESON's extensive range of NEMA C face motors.

For complete stock products information, visit our online technical database at www.leeson.com/findaproduct.



Tech Information

Single Phase
ODP Motors

Single Phase
TEFC Motors

Single Phase
C Face Motors

Three Phase
ODP Motors

Three Phase
TEFC Motors

Three Phase
C Face Motors

Inverter Duty
Motors

Severe Duty
Motors



Explosion Proof Motors



- Meets all UL and CSA safety requirements
- Single and three phase motors
- Double shielded ball bearings
- Automatic overload protection or thermostat protected
- Double shielded ball bearings
- Includes explosion proof conduit box
- NEMA 1.0 or 1.15 service factor
- 1 year warranty
- 3 year warranty on premium efficient models

Applications:

These motors must be applied in accordance with the National Electrical Code, Article #500. Consult NFPA Publication 497M for a complete listing of explosive agents that are typically found in the environments that these motors are exposed to.



Explosion Proof Motors
Automotive Duty Motors
Pump Motors
Washguard Motors
Agricultural Motors
HVAC / Fan Motors
Special Voltage Motors
Definite Purpose Motors
Brake Motors

Application Notes

These motors must be applied in accordance with the National Electrical Code, Article #500.
A partial listing of explosive agents is noted below. Consult NFPA Publication 497M for a complete listing.
Please note subheads above each column for qualifications of LEESON motors.

Features:

- Meets UL and CSA safety requirements
- Automatic overload protected
- Explosion rated conduit box included
- Internal mounted capacitors
- Double shielded ball bearings
- Meets temperature code T3B

Rating Information:

Division I areas are environments where a hazard is present continuously or would be subject to fire or explosion if the hazard was present as a result of an accident or uncommon occurrence.
Division II areas are environments where the threat of fire or explosion is not normally present and not likely to result in the event of an abnormal occurrence.

Application Notes:

- Class I
- Group A: Acetylene
- Group B: Butadiene, ethylene oxide, hydrogen, propylene oxide, manufactured gases containing more than 30% hydrogen by volume.
- Group C: Acetaldehyde, cyclopropane, diethyl ether, ethylene.
- Group D: Acetone, acrylonitrile, ammonia, benzene, butane, ethanol, ethylene dichloride, gasoline, hexane, isoprene, methane (natural gas), methanol, naphtha, propane, propylene, styrene, toluene, vinyl acetate, vinyl chloride, xylene.
- Class II
- Group E: Aluminum, magnesium and other metal dusts with similar characteristics.
- Group F: Carbon black, coke or coal dust.
- Group G: Flour, starch or grain dust.

Note: No LEESON motors are listed for Class I, Group A or B.



Explosion-Proof Motors

Single Phase - Rigid Base

Division I, Division II, Class I, Groups C & D - Class II, Groups F & G - W/Conduit Box

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
1/3	1800	56	111074.00	✓	775	A6C17EB20	35	115/208-230	Auto.	2.9	1.00	12.97	S, US, 12
1/2	1800	56H	111084.00	✓	855	A6C17XB22	41	115/208-230	Auto.	4.4	1.00	13.58	S, US, 6, 13
3/4	1800	56H	110934.00	✓	1,009	A6C17XB21	46	115/208-230	Auto.	5.5	1.00	14.08	S, US, 6, 13
1	1800	56H	110961.00	✓	1,145	A6C17XB20	47	115/208-230	Auto.	6.7	1.00	14.08	S, US, 6, 13

Note 12 - TENV

♥ Note listing on inside back flap

Specifications are subject to change without notice

Single Phase - C Face Less Base

Division I, Division II, Class I, Groups C & D - Class II, Groups F & G - W/Conduit Box

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
1/3	3600	56C	111095.00	✓	815	A6C34EC20	38	115/208-230	Auto.	2.2	1.00	13.44	S, US, 13
	1800	56C	111075.00	✓	855	A6C17EC20	41	115/208-230	Auto.	2.9	1.00	12.97	S, US, 12
1/2	3600	56C	111098.00	✓	824	A6C34XC22	35	115/208-230	Auto.	4.2	1.00	13.44	S, US, 13
	3600	56J	116188.00	✓	778	A6C34XC31	35	115/208-230	Auto.	3.8	1.00	13.96	S, US, 13
	1800	56C	111085.00	✓	948	A6C17XC22	45	115/208-230	Auto.	4.4	1.00	13.94	S, US, 13
3/4	3600	56C	111097.00	✓	884	A6C34XC21	40	115/208-230	Auto.	5.0	1.00	13.96	S, US, 13
	3600	56J	116186.00	✓	876	A6C34XC32	40	115/208-230	Auto.	5.0	1.00	14.46	S, US, 13
	1800	56C	111086.00	✓	1,052	A6C17XC21	50	115/208-230	Auto.	5.5	1.00	14.44	S, US, 13
1	3600	56C	111096.00	✓	948	A6C34XC20	49	115/208-230	Auto.	6.2	1.00	14.44	S, US, 13
	3600	56J	116185.00	✓	940	A6C34XC33	49	115/208-230	Auto.	6.0	1.00	14.96	S, US, 13
	1800	56C	110852.00	✓	1,200	A6C17XC20	53	115/208-230	Auto.	6.7	1.00	14.44	S, US, 13
1 1/2	3600	56C	114424.00	✓	1,174	A6C34XC26	44	115/208-230	Auto.	8.5	1.00	14.96	S, US, 13
	3600	56J	116183.00	✓	1,204	A6C34XC34	54	115/208-230	Auto.	8.5	1.00	14.95	S, US, 13
2	3600	56C	114425.00	✓	1,288	A6C34XC27	54	115/208-230	Auto.	10.5	1.00	14.94	S, US, 13
	3600	56J	116181.00	✓	1,311	A6C34XC35	54	115/208-230	Auto.	10.5	1.00	15.45	S, US, 13

Note 12 - TENV

♥ Note listing on inside back flap

Specifications are subject to change without notice

Single Phase - C Face With Base

Division I, Division II, Class I, Groups C & D - Class II, Groups F & G - W/Conduit Box

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
1/3	3600	56C	116605.00	✓	843	A6C34XK7	39	115/208-230	Auto.	2.6	1.00	13.44	S, US, 13
	1800	56C	116606.00	✓	881	A6C17XK33	42	115/208-230	Auto.	3.3	1.00	13.44	S, US, 13
	1200	56C	116607.00	✓	1,009	A6C17XK31	45	115/208-230	Auto.	3.9	1.00	13.94	S, US, 6, 13
1/2	3600	56C	116608.00	✓	850	A6C34XK6	36	115/208-230	Auto.	3.8	1.00	13.44	S, US, 6, 13
	1800	56C	116609.00	✓	977	A6C17XK32	46	115/208-230	Auto.	4.4	1.00	13.94	S, US, 6, 13
	1200	56HC	116610.00	✓	1,093	A6C17XK34	56	115/208-230	Auto.	4.7	1.00	14.94	S, US, 6, 13
3/4	3600	56C	116611.00	✓	909	A6C34XK5	41	115/208-230	Auto.	5.3	1.00	13.94	S, US, 6, 13
	1800	56C	116612.00	✓	1,080	A6C17XK30	51	115/208-230	Auto.	5.5	1.00	14.44	S, US, 6, 13
1	3600	56C	116613.00	✓	977	A6C34XK4	50	115/208-230	Auto.	6.3	1.00	14.44	S, US, 6, 13
	1800	56C	116614.00	✓	1,190	A6C17XK29	54	115/208-230	Auto.	6.7	1.00	14.44	S, US, 6, 13
1 1/2	3600	56C	116615.00	✓	1,385	A6C34XK3	45	115/208-230	Auto.	8.5	1.00	14.44	S, US, 6, 13
2	3600	56C	116616.00	✓	1,696	A6C34XK2	58	115/208-230	Auto.	10.5	1.00	14.94	S, US, 6, 13

Specifications are subject to change without notice

♥ Note listing on inside back flap



View On-line Technical Information

Explosion-Proof Motors

Three Phase - Rigid Base

Division I, Division II, Class I, Groups C & D - Class II, Groups F & G - W/Conduit Box

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over-load Prot.	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
1/3	1800	56	111932.00	✓	792	A6T17EB22	33	208-230/460	Auto	1.3	76.00	1.00	10.97	S, US, 12
	1800	56	117856.00	✓	776	C6T17EB38	33	208-230/460	T-Stats	1.3	76.00	1.00	10.97	S, US, 12
	1200	56H	111940.00	✓	1,136	A6T11EB21	39	208-230/460	Auto	1.5	70.00	1.00	13.97	S, US, 12
1/2	3600	56	111934.00	✓	904	A6T34EB22	39	208-230/460	Auto	1.6	82.50	1.00	12.47	S, US, 12
	1800	56	111929.00	✓	823	A6T17EB21	32	208-230/460	Auto	1.7	75.00	1.00	12.47	S, US, 12
	1800	56	117857.00	✓	807	C6T17EB39	32	208-230/460	T-Stats	1.7	75.00	1.00	12.47	S, US, 12
3/4	1200	56H	111938.00	✓	1,203	A6T11XB22	44	208-230/460	Auto	2.0	71.00	1.00	13.47	S, US, 6, 12
	3600	56	111937.00	✓	946	A6T34XB21	37	208-230/460	Auto	3.2	75.50	1.00	13.44	S, US, 13
	1800	56	111923.00	✓	955	A6T17XB21	38	208-230/460	Auto	3.0	75.00	1.00	13.94	S, US, 13
1	1800	56	117858.00	✓	939	C6T17XB35	38	208-230/460	T-Stats	3.0	75.00	1.00	13.94	S, US, 13
	3600	56	111942.00	✓	998	A6T34XB20	34	208-230/460	Auto	3.6	77.00	1.00	13.44	S, US, 13
	1800	56H	111922.00	✓	1,038	A6T17XB20	45	208-230/460	Auto	3.6	78.00	1.00	13.94	S, US, 6, 13
1 1/2	1800	56H	117848.00	✓	1,022	A6T17XB20	45	208-230/460	T-Stats	3.6	78.00	1.00	13.94	S, US, 6, 13
	3600	143T	121914.00	✓	1,141	A143T34XB25	49	208-230/460	Auto	4.0	84.00	1.00	14.41	S, US, 13
	1800	56H	117849.00	✓	1,252	A6T17XB27	58	208-230/460	T-Stats	4.8	80.00	1.15	14.41	S, US, 13
2	1800	145T	121915.00	✓	1,270	A145T17XB28	59	208-230/460	Auto	4.8	86.50	1.00	14.41	S, US, 13
	1800	145T	122024.00	✓	1,252	C145T17XB31	59	208-230/460	T-Stats	4.8	86.50	1.00	14.41	S, US, 13
	3600	145T	121916.00	✓	1,176	A145T34XB25	55	208-230/460	Auto	4.8	85.50	1.00	15.41	S, US, 13
3	1800	145T	121917.00	✓	1,410	C145T17XB27	60	208-230/460	Auto	5.8	86.50	1.00	15.41	S, US, 13
	1800	145T	122025.00	✓	1,391	C145T17XB32	60	208-230/460	T-Stats	5.8	86.50	1.00	15.41	S, US, 13
	3600	145T	121918.00	✓	1,390	U145T34XB26	56	208-230/460	T-Stats	4.8	86.50	1.00	15.91	S, US, 13

Green items are Premium Efficient

♥ Note listing on inside back flap

Note 12 - TENV

Specifications are subject to change without notice

Three Phase - C Face Less Base

Division I, Division II, Class I, Groups C & D - Class II, Groups F & G - W/Conduit Box

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over-load Prot.	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
1/3	3600	56C	111944.00	✓	945	A6T34EC23	36	208-230/460	Auto	1.2	77.00	1.00	11.97	S, US, 12
	1800	56C	111931.00	✓	1,015	A6T17EC23	29	208-230/460	Auto	1.2	76.00	1.00	11.97	S, US, 12
	1800	56C	117860.00	✓	999	C6T17EC30	29	208-230/460	T-Stat	1.2	76.00	1.00	11.97	S, US, 12
1/2	3600	56C	111933.00	✓	984	A6T34EC22	33	208-230/460	Auto	1.6	82.50	1.00	12.47	S, US, 12
	3600	56J	116187.00	✓	961	A6T34EC28	33	208-230/460	Auto	1.6	82.50	1.00	12.98	S, US, 12
	1800	56C	111930.00	✓	1,075	A6T17EC22	34	208-230/460	Auto	1.7	75.00	1.00	12.47	S, US, 12
3/4	1800	56C	117852.00	✓	1,059	A6T17XC29	34	208-230/460	T-Stat	1.7	75.00	1.00	12.47	S, US, 12
	3600	56C	111936.00	✓	1,015	A6T34XC21	27	208-230/460	Auto	2.4	75.50	1.00	13.44	S, US, 13
	1800	56C	111935.00	✓	1,092	A6T17XC23	36	208-230/460	Auto	3.0	75.00	1.00	13.94	S, US, 13
1	1800	56C	117853.00	✓	1,077	A6T17XC30	36	208-230/460	T-Stat	3.0	75.00	1.00	13.94	S, US, 13
	3600	56C	111943.00	✓	1,062	A6T34XC20	30	208-230/460	Auto	3.2	77.00	1.00	13.44	S, US, 13
	3600	56J	116184.00	✓	1,034	A6T34XC31	33	208-230/460	Auto	3.2	77.00	1.00	13.95	S, US, 13
1 1/2	1800	56C	111926.00	✓	1,145	A6T17XC22	46	208-230/460	Auto	3.6	78.00	1.00	13.94	S, US, 13
	1800	56C	117854.00	✓	1,130	A6T17XC31	46	208-230/460	T-Stat	3.6	78.00	1.00	13.94	S, US, 13
	3600	56C	111939.00	✓	1,208	A6T34XC25	48	208-230/460	Auto	4.2	81.50	1.00	13.94	S, US, 13
2	3600	56J	116182.00	✓	1,060	A6T34XC30	48	208-230/460	Auto	4.2	81.50	1.00	14.46	S, US, 13
	1800	56C	111941.00	✓	1,233	A6T17XC24	46	208-230/460	Auto	4.4	80.00	1.00	15.94	S, US, 13
	1800	56C	117855.00	✓	1,214	A6T17XC32	46	208-230/460	T-Stat	4.4	80.00	1.00	15.94	S, US, 13
3	3600	56C	113971.00	✓	1,351	A6T34XC26	50	208-230/460	Auto	5.6	82.50	1.15	13.94	S, US, 13
	3600	56J	116180.00	✓	1,108	A6T34XC29	50	208-230/460	Auto	5.6	82.50	1.00	14.45	S, US, 13
	1800	145TC	G121178.00	✓	1,335	A145T17XC4	55	208-230/460	Auto	5.6	84.00	1.00	15.03	S, US, 13
5	1800	145TC	122023.00	✓	1,317	A145T17XC6	55	208-230/460	T-Stat	5.6	84.00	1.00	15.03	S, US, 13
	3600	56C	114419.00	✓	1,504	A6T34XC28	54	208-230/460	Auto	7.6	84.00	1.00	15.44	S, US, 13
	1800	182TC	G825116.00	✓	1,738	182TTGS14057	96	230/460	T-Stat	8.5	87.50	1.00	17.87	C, US, 13
7 1/2	3600	184TC	G825190.00	✓	1,859	184TTGN4013	133	230/460	T-Stat	11.8	87.50	1.00	18.62	C, US, 13
	1800	184TC	G825128.00	✓	1,991	184TTGN14030	116	230/460	T-Stat	13.8	87.50	1.00	17.87	C, US, 13
	3600	213TC	G825188.00	C/A	2,792	213TTGN14005	241	230/460	T-Stat	19.0	88.50	1.00	22.25	C, US, 13
10	1800	213TC	G825192.00	C/A	2,762	213TTGN4050	194	230/460	T-Stat	20.0	89.50	1.00	23.45	C, US, 13
	3600	215TC	G825193.00	C/A	2,931	215TTGN4031	271	230/460	T-Stat	24.0	90.20	1.00	22.25	C, US, 13
	1800	215TC	G825194.00	C/A	2,909	215TTGN4051	216	230/460	T-Stat	25.0	86.50	1.00	23.45	C, US, 13
15	3600	254TC	G825195.00	C/A	3,708	254TTGP14014	301	230/460	T-Stat	35.0	90.20	1.00	24.19	C, US, 13
	1800	254TC	G825196.00	C/A	4,345	T254T17XC1	370	230/460	T-Stat	39.0	91.00	1.00	25.77	C, US, 13
	3600	256TC	G825197.00	C/A	4,981	256TTGN14013	340	230/460	T-Stat	47.0	90.20	1.00	25.77	C, US, 13
20	1800	256TC	G825198.00	C/A	4,954	256TTGN14046	315	230/460	T-Stat	50.0	91.00	1.00	25.94	C, US, 13

Note † - Explosion-proof motors are Class I, Group D—Class II, Groups F & G.

♥ Note listing on inside back flap

C/A - Check Availability

Note 12 - TENV

Specifications are subject to change without notice



View On-line Technical Information



Explosion Proof Motors

Automotive Duty Motors

Pump Motors

Washguard Motors

Agricultural Motors

HVAC / Fan Motors

Special Voltage Motors

Define Purpose Motors

Brake Motors

Explosion-Proof Motors

Three Phase - C Face With Base

Division I, Division II, Class I, Groups C & D; Class II, Groups F & G - W/Conduit Box

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
1/3	3600	56C	114625.00	✓	955	A6T34EK1	33	208-230/460	Auto.	1.2	77.00	1.00	11.97	S, US, 12
	1800	56C	114626.00	✓	1,031	A6T17EK7	38	208-230/460	Auto.	1.3	76.00	1.00	11.97	S, US, 12
	1800	56C	117859.00	✓	1,016	C6T17EK11	38	208-230/460	T-Stat	1.3	76.00	1.00	11.97	S, US, 12
1/2	3600	56C	114627.00	✓	995	A6T34EK2	35	208-230/460	Auto.	1.6	82.50	1.00	12.47	S, US, 12
	1800	56C	114628.00	✓	1,079	A6T17EK8	35	208-230/460	Auto.	1.7	75.00	1.00	12.47	S, US, 12
	1800	56C	116190.00	✓	1,356	C6T17XK23	34	208-230/460	T-Stat	2.4	68.00	1.00	13.44	S, US, 13
3/4	3600	56C	114629.00	✓	1,028	A6T34XK2	33	208-230/460	Auto.	2.4	75.50	1.00	13.44	S, US, 13
	1800	56C	114630.00	✓	1,100	A6T17XK11	42	208-230/460	Auto.	2.6	75.00	1.00	13.94	S, US, 13
	1800	56C	116191.00	✓	1,383	C6T17XK24	38	208-230/460	T-Stat	3.0	75.50	1.00	13.44	S, US, 13
1	3600	56C	114631.00	✓	1,075	A6T34XK3	34	208-230/460	Auto.	3.2	77.00	1.00	13.44	S, US, 13
	1800	56C	114632.00	✓	1,167	A6T17XK12	48	208-230/460	Auto.	3.2	85.50	1.00	14.50	S, US, 13
	1800	56C	117850.00	✓	1,151	A6T17XK27	48	208-230/460	T-Stat	3.2	85.50	1.00	14.50	S, US, 13
	1800	143TC	121919.00	✓	1,731	C143T17XK3	44	208-230/460	T-Stat	3.0	82.50	1.00	14.50	S, US, 13
1 1/2	3600	56C	114633.00	✓	1,220	A6T34XK4	42	208-230/460	Auto.	4.2	81.50	1.00	13.94	S, US, 13
	1800	56C	114634.00	✓	1,249	A6T17XK13	45	208-230/460	Auto.	4.4	80.00	1.00	15.94	S, US, 13
	1800	56C	117851.00	✓	1,230	A6T17XK28	45	208-230/460	T-Stat	4.4	80.00	1.00	15.94	S, US, 13
	1800	145TC	121920.00	✓	1,796	C145T17XK6	58	208-230/460	T-Stat	4.8	86.50	1.15	16.00	S, US, 13
2	3600	56C	114635.00	✓	1,207	A6T34XK5	51	208-230/460	Auto.	5.6	78.80	1.00	13.94	S, US, 13
	1800	145TC	121921.00	✓	1,511	C145T17XK7	62	208-230/460	Auto.	5.8	86.50	1.00	15.02	S, US, 13
	1800	145TC	121922.00	✓	1,964	C145T17XK8	66	208-230/460	T-Stat	5.8	86.50	1.00	16.50	S, US, 13
3	3600	56C	114636.00	✓	1,512	A6T34XK6	62	208-230/460	Auto.	7.6	84.00	1.00	15.44	S, US, 13

Green items are Premium Efficient

♥ Note listing on inside back flap

Note 12 - TENV

Specifications are subject to change without notice

Three Phase - C Face With Rigid Base - ALL Cast Iron Construction

Division I, Division II, Class I, Group C & D; Class II, Groups F & G • W/Conduit Box

All Ratings Are Inverter Rated

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
3	3600	182TC	825125.00	✓	1,792	182TTGN16508	95	230/460	T-Stat	7.6	87.50	1.15	17.62	C, US
	1800	182TC	825126.00	✓	1,792	182TTGN16529	96	230/460	T-Stat	7.8	90.20	1.15	17.60	C, US
5	3600	184TC	825127.00	✓	1,912	184TTGN16503	130	230/460	T-Stat	12.0	88.50	1.15	17.62	C, US
	1800	184TC	825071.00	✓	1,912	184TTGN16537	130	230/460	T-Stat	12.8	90.20	1.15	17.60	C, US
7 1/2	3600	213TC	825072.00	✓	2,871	213TTGN16507	143	230/460	T-Stat	18.0	90.20	1.15	20.68	C, US
	1800	213TC	825073.00	✓	2,843	213TTGN16526	143	230/460	T-Stat	18.6	91.70	1.15	20.68	C, US
10	3600	215TC	825074.00	✓	3,016	215TTGN16505	160	230/460	T-Stat	23.0	91.70	1.15	20.68	C, US
	1800	215TC	825075.00	✓	2,993	215TTGN16526	160	230/460	T-Stat	25.0	91.70	1.15	20.68	C, US
15	3600	254TC	825076.00	✓	3,815	254TTGN16507	245	230/460	T-Stat	34.6	91.70	1.15	24.02	C, US
	1800	254TC	825077.00	✓	4,470	254TTGN16540	246	230/460	T-Stat	36.0	92.40	1.15	24.02	C, US
20	3600	256TC	825078.00	✓	5,125	256TTGN16513	271	230/460	T-Stat	46.0	91.00	1.15	25.77	C, US
	1800	256TC	825079.00	✓	5,097	256TTGN16543	273	230/460	T-Stat	49.0	93.00	1.15	25.77	C, US
25	3600	284TSC	825080.00	✓	5,306	284TSTGN16506	373	230/460	T-Stat	56.8	91.70	1.15	24.44	C, US
	1800	284TC	825081.00	✓	5,248	284TTGN16540	375	230/460	T-Stat	59.0	93.60	1.15	26.80	C, US
30	1800	286TC	825082.00	✓	5,963	286TTGN16538	395	230/460	T-Stat	70.0	93.60	1.15	28.30	C, US
40	1800	324TC	825083.00	✓	7,749	324TTGS1603	563	230/460	T-Stat	92.0	94.10	1.15	29.37	C, US
50	1800	326TC	825084.00	✓	9,537	326TTGS16031	585	230/460	T-Stat	117.0	94.50	1.15	30.87	C, US

Green items are Premium Efficient

♥ Note listing on inside back flap

Specifications are subject to change without notice

All Ratings Are Inverter Rated



View On-line Technical Information



Explosion-Proof Motors

Three Phase - Rigid Base - All Cast Iron Construction

Division I, Division II, Class I, Groups C & D Class II, Groups F & G -

All Ratings Are Inverter Rated

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over-load Prot.	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥ Notes
3	1800	182T	825085.00	✓	1,700	182TTGN16026	107	230/460	T-Stat	7.8	89.50	1.15	17.62	C, US
5	3600	184T	825086.00	✓	1,792	184TTGN16504	117	230/460	T-Stat	12.0	88.50	1.15	17.62	C, US
	1800	184T	825087.00	✓	1,761	184TTGN16032	128	230/460	T-Stat	12.8	89.50	1.15	17.62	C, US
7 1/2	3600	213T	825088.00	✓	2,749	213TTGN16527	183	230/460	T-Stat	18.0	89.50	1.15	21.41	C, US
	1800	213T	825089.00	✓	2,718	213TTGN16527	228	230/460	T-Stat	18.6	91.70	1.15	20.16	C, US
10	3600	215T	825090.00	✓	2,884	215TTGN16504	200	230/460	T-Stat	23.6	90.20	1.15	21.41	C, US
	1800	215T	825091.00	✓	2,871	215TTGN16526	273	230/460	T-Stat	25.0	91.70	1.15	21.41	C, US
15	3600	254T	825092.00	✓	3,889	254TTGN16506	333	230/460	T-Stat	34.6	91.00	1.15	24.12	C, US
	1800	254T	825093.00	✓	3,873	254TTGN16539	383	230/460	T-Stat	36.0	92.40	1.15	24.12	C, US
20	3600	256T	825094.00	✓	4,075	256TTGS16514	383	230/460	T-Stat	46.8	91.00	1.15	25.77	C, US
	1800	256T	825095.00	✓	4,044	256TTGN16539	285	230/460	T-Stat	48.2	93.00	1.15	25.77	C, US
25	3600	284TS	825096.00	✓	5,258	284TSGN16505	413	230/460	T-Stat	56.2	91.70	1.15	25.44	C, US
	1800	284T	825097.00	✓	4,723	284TTGN16538	374	230/460	T-Stat	62.0	93.60	1.15	26.80	C, US
30	3600	286TS	825098.00	✓	5,365	286TSTN16504	464	230/460	T-Stat	67.6	91.70	1.15	26.94	C, US
	1800	286T	825099.00	✓	5,321	286TTGN16033	464	230/460	T-Stat	73.0	93.60	1.15	28.30	C, US
40	3600	324TS	825100.00	✓	7,420	324TSTGS16002	515	230/460	T-Stat	94.0	92.40	1.15	27.87	C, US
	1800	324T	825101.00	✓	7,148	324TTGS16037	535	230/460	T-Stat	95.0	94.10	1.15	29.37	C, US
50	3600	326TS	825102.00	✓	9,334	326TSTGS16503	585	230/460	T-Stat	116.0	93.00	1.15	29.37	C, US
	1800	326T	825103.00	✓	9,274	326TTGS16540	585	230/460	T-Stat	120.0	94.50	1.00	30.57	C, US
60	3600	364TS	825104.00	C/A	13,336	364TSTGS16504	890	230/460	T-Stat	134.0	93.60	1.15	29.88	C, US
	1800	364T	825105.00	✓	12,769	364TTGS16035	992	230/460	T-Stat	138.0	95.00	1.15	32.00	C, US
75	3600	365TS	825106.00	✓	15,411	365TSTGS16507	1025	230/460	T-Stat	168.0	93.60	1.15	30.88	C, US
	1800	365T	825107.00	✓	15,213	365TTGS16541	1053	230/460	T-Stat	172.0	95.40	1.15	33.00	C, US
100	3600	405TS	825108.00	C/A	20,847	405TSTGS16002	1168	230/460	T-Stat	216.0	94.10	1.15	34.62	C, US
	1800	405T	825109.00	C/A	18,537	405TTGS16034	1322	230/460	T-Stat	226.0	95.40	1.15	37.62	C, US
125	3600	444TS	825110.00	C/A	28,778	444TSGN16503	1768	230/460	T-Stat	136.0	95.00	1.15	38.00	C, US
	1800	444T	825111.00	C/A	24,181	444TTGN16032	1822	460	T-Stat	141.0*	95.40	1.15	41.75	C, US
150	3600	445TS	825112.00	C/A	33,683	445TSTGN16002	2072	460	T-Stat	165.0*	95.00	1.15	38.00	C, US
	1800	445T	825113.00	C/A	28,182	445TTGN16035	2072	460	T-Stat	172.0*	95.80	1.15	43.69	C, US
200	3600	445TS	825114.00	C/A	41,103	445TSTGN16003	2332	460	T-Stat	222.0*	95.40	1.15	38.00	C, US
	1800	445T	825115.00	C/A	33,309	445TTGN16036	2275	460	T-Stat	226.0*	96.20	1.15	43.69	C, US
250	3600	449TS	G825071.00	C/A	41,240	449TSTGS14004	2480	460	T-Stat	274.0*	95.40	1.00	48.14	C, US
	1800	449T	G825072.00	C/A	34,078	449TTGS14041	2630	460	T-Stat	285.0*	95.00	1.00	51.85	C, US
300	1800	449T	G850818.00	C/A	36,349	449TTGS14046	3032	460	T-Stat	338.0*	95.40	1.00	51.85	C, US
350	1800	449T	G850819.00	C/A	40,055	449TTGS14047	3280	460	T-Stat	400.0*	95.40	1.00	51.85	C, US

These explosion-proof motors are not designed for vertical mounting.

♥ Note listing on inside back flap

Green items are Premium Efficient

* F.L. Amps @ 460 Volts

C/A - Check Availability

Specifications are subject to change without notice

View On-line Technical Information



Explosion Proof Motors

Automotive Duty Motors

Pump Motors

Washguard Motors

Agricultural Motors

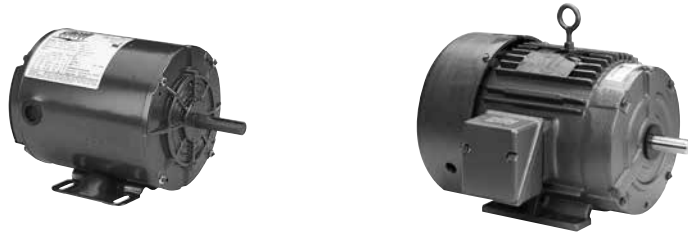
HVAC / Fan Motors

Special Voltage Motors

Definite Purpose Motors

Brake Motors

Automotive Duty Motors



- Meets NEMA U-frame dimensions and performance
- Meets or exceeds General Motors GM-7EH, and -7EQ, Ford Emi and Chrysler NPEM-100 specifications
- NEMA design B performance
- Inverter rated
- Oversized cast iron conduit box with threaded conduit holes
- Lower noise designs
- Shielded ball bearing construction
- UL recognized component listing and CSA approved

Applications:

Ideally suited for a wide variety of tough applications found in automotive manufacturing facilities and other industries utilizing U-Frame motors, which would include pumps, conveyors and fans.



Automotive Duty Motors

Totally Enclosed - 56 Frame - 1/4 HP - 3 HP

Features:

- NEMA Design B Performance
- Steel frame/cast aluminum end brackets
- Premium Class F Insulation system
- Continuous Duty

Application Notes:

Ideally suited for use on pumps, fans, conveyors, gear boxes and other equipment located in automotive manufacturing facilities.



Three Phase - Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥ Notes
1/4	1800	56	LM25123	✓	551	SRN4H0.25T61	22	230/460	1.1	68.0	1.00	9.94	S, MX
	1200	56	LM25127	✓	786	SRN6H0.25T61	28	230/460	1.2	73.4	1.00	10.94	S, MX
1/3	3600	56	LM25124	✓	495	SRN2H0.33T61	20	230/460	2.0	64.0	1.00	9.94	S, US
	1800	56	LM25115	C/A	586	SRN4H0.33T61	22	230/460	1.2	68.0	1.00	9.94	S, MX
	1200	56	LM25116	C/A	795	SRN6H0.33T61	29	230/460	1.5	75.5	1.00	10.94	S, US
1/2	3600	56	LM25126	✓	532	SRN2H0.5T61	23	230/460	1.6	74.0	1.00	9.94	S, US
	1800	56	LM24258	✓	669	SRN4H0.5T61	26	230/460	2.0	77.0	1.00	10.44	S, MX
	1200	56	LM24268	✓	877	SRN6H0.5T61	42	230/460	1.9	78.5	1.00	11.94	S, MX
3/4	3600	56	LM25133	C/A	608	SRN2H0.75T61	34	230/460	2.4	80.0	1.00	10.94	S, US
	1800	56	LM24266	C/A	741	SRN4H0.75T61	30	230/460	2.4	81.5	1.00	10.94	S, MX
1	3600	56	LM25129	C/A	685	SRN2H1T61	41	230/460	2.8	82.5	1.00	11.94	S, US
	1800	56	LM25113	✓	583	SRF4H1T61	28	230/460	3.6	77.0	1.00	12.32	S, MX

▼ LM Numbers are Lincoln Models

♥ Note listing on inside back flap

C/A - Check Availability

Specifications are subject to change without notice

View On-line Technical Information



Explosion Proof Motors

Automotive Duty Motors

Pump Motors

Washguard Motors

Agricultural Motors

HVAC / Fan Motors

Special Voltage Motors

Definite Purpose Motors

Brake Motors

Automotive Duty Motors

Totally Enclosed - 56 Frame - 1/4 HP - 1 HP

Three Phase - C Face Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
1/4	1800	56C	LM25131	C/A	606	SRN4H0.25TC61	20	230/460	1.1	68.0	1.15	9.94	S, US
	1200	56C	LM25135	✓	844	SRN6H0.25TC61	24	230/460	1.2	73.4	1.00	10.94	S, US
1/3	3600	56C	LM25153	C/A	552	SRN2H0.33TC61	20	230/460	2.0	64.0	1.15	9.94	S, US
	1800	56C	LM25149	C/A	644	SRN4H0.33TC61	22	230/460	1.2	68.0	1.00	9.94	S, US
1/2	3600	56C	LM25151	C/A	586	SRN2H0.5TC61	25	230/460	1.8	74.0	1.00	10.44	S, US
	1800	56C	LM25114	✓	726	SRN4H0.5TC61	24	230/460	2.0	77.0	1.00	10.44	S, MX
	1200	56C	LM25134	C/A	933	SRN6H0.5TC61	42	230/460	1.9	78.5	1.00	11.94	S, MX
3/4	3600	56C	LM25119	C/A	666	SRN2H0.75TC61	34	230/460	2.4	80.0	1.00	10.94	S, US
	1800	56C	LM25121	✓	799	SRN4H0.75TC61	30	230/460	2.4	81.5	1.00	10.94	S, MX
1	3600	56C	LM25125	C/A	741	SRN2H1TC61	41	230/460	2.8	82.5	1.00	11.94	S, US
	1800	56C	LM25117	✓	641	SRF4H1TC61	29	230/460	3.6	77.0	1.00	12.31	S, MX

▼ LM Numbers are Lincoln Models

♥ Note listing on inside back flap

C/A - Check Availability

Specifications are subject to change without notice

Three Phase - C Face Less Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
1/4	1800	56C	LM25136	✓	606	SRN4H0.25TCN61	19	230/460	1.1	68.0	1.00	9.94	S, MX
1/3	3600	56C	LM25158	C/A	552	SRN2H0.33TCN61	21	230/460	2.0	64.0	1.00	9.94	S, US
	1800	56C	LM25128	C/A	644	SRN4H0.33TCN61	21	230/460	1.2	68.0	1.00	9.94	S, MX
1/2	3600	56C	LM25154	C/A	586	SRN2H0.5TCN61	23	230/460	1.6	74.0	1.15	9.94	S, US
	1800	56C	LM24259	✓	726	SRN4H0.5TCN61	26	230/460	2.0	77.0	1.00	10.44	S, MX
3/4	3600	56C	LM25139	C/A	664	SRN2H0.75TCN61	26	230/460	2.0	80.0	1.15	11.94	S, US
	1800	56C	LM24262	C/A	799	SRN4H0.75TCN61	25	230/460	2.4	81.5	1.00	10.94	S, MX
1	3600	56C	LM25112	C/A	741	SRN2H1TCN61	33	230/460	2.8	82.5	1.00	11.94	S, US
	1800	56C	LM24271	✓	641	SRF4H1TCN61	26	230/460	3.6	77.0	1.00	12.32	S, MX

▼ LM Numbers are Lincoln Models

♥ Note listing on inside back flap

C/A - Check Availability

Specifications are subject to change without notice



View On-line Technical Information



Features:

- Meets NEMA U-Frame dimensional and performance standards
- Meets or exceeds General Motors GM-7EH and -7EQ, Ford EM1, and Chrysler NPEM-100 specifications
- Full cast iron construction – all frame sizes
- Oversized, cast iron terminal box with threaded conduit holes
- NEMA Design B Performance
- Continuous Duty
- Inverter-Rated
- Premium Class F Insulation System

Application Notes:

Ideally suited for a wide variety of tough applications found in automotive manufacturing facilities and other industries utilizing U-Frame motors.

Lincoln U-Frame motors exceed NEMA MG-1, Section IV, Part 31 spike resistance requirements.

Three Phase - Rigid Mount

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 460 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥ Notes
3/4	1200	182U	LM21379	C/A	1,180	CCN6P0.75U64	89	460	1.3	82.5	1.00	12.21	C, US
1	1800	182U	LM21378	✓	1,110	CCN4P1U64	110	460	1.5	87.5	1.00	12.21	C, US
	1200	184U	LM21381	✓	1,357	CCN6P1U64	108	460	1.7	86.5	1.00	13.21	C, US
1 1/2	3600	182U	LM21084	✓	1,020	CCN2P1.5U64	108	460	2.0	85.5	1.00	12.21	C, US
	1800	184U	LM21380	C/A	1,189	CCN4P1.5U64	108	460	2.1	88.8	1.00	13.21	C, US
	1200	184U	LM20709	✓	1,493	CCN6P1.5U64	99	460	2.2	87.5	1.00	13.21	C, US
2	3600	184U	LM21085	✓	1,124	CCF2P2U64	120	460	2.7	85.5	1.00	15.69	C, US
	1800	184U	LM20708	✓	1,251	CCF4P2U64	120	460	2.6	89.5	1.00	15.69	C, US
	1200	213U	LM21383	C/A	1,655	CCF6P2U64	170	460	3.1	87.5	1.00	17.82	C, US
3	3600	184U	LM20707	✓	1,385	CCF2P3U64	120	460	3.8	87.5	1.00	15.69	C, US
	1800	213U	LM21382	✓	1,439	CCF4P3U64	170	460	4.0	88.5	1.00	17.82	C, US
	1200	215U	LM20391	✓	2,050	CCF6P3U64	170	460	4.4	89.5	1.00	19.32	C, US
5	3600	213U	LM21086	✓	1,535	CCF2P5U64	170	460	6.4	87.5	1.00	17.82	C, US
	1800	215U	LM20392	✓	1,907	CCF4P5U64	170	460	6.5	89.5	1.00	19.32	C, US
	1200	254U	LM21385	C/A	3,003	CCF6P5U64	260	460	6.7	90.2	1.00	23.27	C, US
7 1/2	3600	215U	LM20393	C/A	1,847	CCF2P7.5U64	170	460	9.5	88.5	1.00	19.32	C, US
	1800	254U	LM21384	✓	2,505	CCF4P7.5U64	260	460	9.6	91.7	1.00	23.44	C, US
	1200	256U	LM20389	✓	3,646	CCF6P7.5U64	332	460	9.9	91.0	1.00	25.02	C, US
10	3600	254U	LM21087	✓	2,211	CCF2P10U64	260	460	12.0	89.5	1.00	23.44	C, US
	1800	256U	LM20390	✓	3,044	CCF4P10U64	260	460	12.5	91.7	1.00	25.19	C, US
15	3600	256U	LM20394	✓	2,817	CCF2P15U64	260	460	17.5	91.7	1.00	25.02	C, US
	1800	284U	LM21665	✓	4,180	CCF4P15U64	525	460	18.0	92.4	1.00	26.52	C, US

▼ LM Numbers are Lincoln Models

C/A - Check Availability

Specifications are subject to change without notice

♥ Note listing on inside back flap

Continued On Next Page

View On-line Technical Information



Explosion Proof Motors

Automotive Duty Motors

Pump Motors

Washguard Motors

Agricultural Motors

HVAC / Fan Motors

Special Voltage Motors

Define Purpose Motors

Brake Motors

Automotive Duty Motors

Automotive Duty - U-Frame - Three Phase - 460 Volts

Three Phase - Rigid Mount

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 460 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
20	3600	286U	LM21088	✓	3,830	CCF2P20U64	525	460	23.4	90.2	1.00	28.02	C, US
	1800	286U	LM20029	✓	5,137	CCF4P20U64	525	460	24.1	93.0	1.00	28.02	C, US
25	3600	324U	LM21089	C/A	4,913	CCF2P25U64	748	460	28.1	93.6	1.00	29.34	C, US
	3600	324US	LM21807	C/A	4,913	CCF2P25US64	748	460	28.1	93.6	1.00	26.97	C, US
	1800	324U	LM21386	✓	6,428	CCF4P25U64	748	460	30.5	92.1	1.00	29.24	C, US
30	3600	326US	LM21810	C/A	5,925	CCF2P30US64	748	460	35.0	91.0	1.00	28.47	C, US
	1800	326U	LM20030	C/A	7,509	CCF4P30U64	748	460	36.0	94.1	1.00	30.74	C, US
40	3600	364US	LM21091	C/A	7,738	CCF2P40US64	908	460	45.0	93.6	1.00	29.38	C, US
	1800	364U	LM21388	C/A	9,901	CCF4P40U64	977	460	47.0	94.1	1.00	32.00	C, US
50	3600	365US	LM21092	C/A	9,762	CCF2P50US64	980	460	56.0	94.1	1.00	30.38	C, US
	3600	365U	LM21799	✓	9,762	CCF2P50U64	980	460	56.0	94.1	1.00	33.00	C, US
	1800	365U	LM19530	C/A	11,617	CCF4P50U64	1063	460	57.0	94.5	1.00	33.00	C, US
60	3600	405US	LM19532	C/A	11,615	CCF2P60US64	1130	460	66.0	94.1	1.00	34.12	C, US
	1800	405U	LM21391	C/A	14,422	CCF4P60U64	1110	460	68.0	95.0	1.00	37.00	C, US
75	3600	444US	LM21093	C/A	15,263	CCF2P75US64	1685	460	84.0	94.1	1.00	38.94	C, US
	1800	444U	LM21392	C/A	17,788	CCF4P75U64	1787	460	85.0	95.0	1.00	41.38	C, US
	1200	445U	LM19535	C/A	20,796	CCF6P75U64	1787	460	90.0	95.0	1.00	43.70	C, US
100	3600	445US	LM21094	C/A	20,171	CCF2P100US64	1685	460	113.0	95.4	1.00	38.94	C, US
	1800	445U	LM19534	C/A	22,114	CCF4P100U64	1787	460	113.0	95.4	1.00	43.47	C, US

▼ LM Numbers are Lincoln Models

♥ Note listing on inside back flap

C/A - Check Availability

Specifications are subject to change without notice

Automotive Duty - U-Frame - Three Phase - 460 Volts - C Face Less Base

Three Phase - Automotive Duty - 460 Volts - C Face Less Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 460 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
1	1800	182C	LM23781	✓	1,189	CCN4P1UCN64	108	460	1.5	87.5	1.00	12.96	C, US
1 1/2	1800	184C	LM23783	C/A	1,266	CCN4P1.5UCN64	120	460	2.1	88.5	1.00	13.96	C, US
2	1800	184C	LM23782	✓	1,330	CCF4P2UCN64	132	460	2.6	89.5	1.00	16.22	C, US
3	1800	213C	LM23854	C/A	1,758	CCF4P3UCN64	175	460	4.0	88.5	1.00	18.58	C, US
5	1800	215C	LM24072	✓	2,181	CCF4P5UCN64	181	460	6.5	89.5	1.00	18.58	C, US
7 1/2	1800	254UC	LM23784	C/A	2,629	CCF4P7.5UCN64	385	460	9.6	91.7	1.00	23.94	C, US

▼ LM Numbers are Lincoln Models

♥ Note listing on inside back flap

C/A - Check Availability

Specifications are subject to change without notice



View On-line Technical Information

Automotive Duty Motors

Automotive Duty - U-Frame - Three Phase - 460 Volts

C Face With Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 460 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
3/4	1200	182C	LM21828	C/A	1,257	CCN6P0.75UC64	120	460	1.3	82.5	1.00	12.96	C, US
1	1800	182C	LM21827	C/A	1,189	CCN4P1UC64	120	460	1.5	87.5	1.00	12.96	C, US
1 1/2	3600	182C	LM21826	C/A	1,099	CCN2P1.5UC64	120	460	2.0	85.5	1.00	12.96	C, US
	1800	184C	LM21833	C/A	1,266	CCN4P1.5UC64	120	460	2.1	88.5	1.00	13.96	C, US
2	3600	184C	LM21831	C/A	1,207	CCF2P2UC64	132	460	2.7	85.5	1.00	14.10	C, US
	1800	184C	LM21832	C/A	1,330	CCF4P2UC64	132	460	2.6	89.5	1.00	16.22	C, US
3	3600	184C	LM21829	✓	1,442	CCF2P3UC64	132	460	3.8	87.5	1.00	16.22	C, US
	1800	213C	LM21837	C/A	1,530	CCF4P3UC64	181	460	4.0	88.5	1.00	18.58	C, US
	1200	215C	LM21841	C/A	2,142	CCF6P3UC64	181	460	4.4	89.5	1.00	20.08	C, US
5	3600	213C	LM21836	✓	1,611	CCF2P5UC64	181	460	6.4	87.5	1.00	18.58	C, US
	1800	215C	LM21840	C/A	2,000	CCF4P5UC64	181	460	6.5	89.5	1.00	20.08	C, US
	1200	254UC	LM21844	✓	2,971	CCF6P5UC64	272	460	6.7	90.2	1.00	23.77	C, US
7 1/2	3600	215C	LM21839	C/A	1,938	CCF2P7.5UC64	181	460	9.5	88.5	1.00	20.08	C, US
	1800	254UC	LM21843	C/A	2,629	CCF4P7.5UC64	272	460	9.6	91.7	1.00	23.89	C, US
10	3600	254UC	LM21842	C/A	2,332	CCF2P10UC64	272	460	12.0	89.5	1.00	23.89	C, US
	1800	256UC	LM21846	✓	3,166	CCF4P10UC64	272	460	12.5	91.7	1.00	25.64	C, US
15	3600	256UC	LM21845	✓	2,937	CCF2P15UC64	272	460	17.5	91.7	1.00	25.22	C, US
	1800	284UC	LM21848	✓	4,393	CCF4P15UC64	531	460	18.0	92.4	1.00	26.52	C, US
	1200	324UC	LM21854	✓	6,366	CCF6P15UC64	757	460	19.2	92.4	1.00	32.50	C, US
20	3600	286UC	LM21850	C/A	4,040	CCF2P20UC64	531	460	23.4	90.2	1.00	28.02	C, US
	1800	286UC	LM21851	✓	5,346	CCF4P20UC64	531	460	24.1	93.0	1.00	28.02	C, US
	1200	326UC	LM21857	C/A	7,701	CCF6P20UC64	757	460	25.5	92.4	1.00	34.00	C, US
25	3600	324UC	LM21893	C/A	5,268	CCF2P25UC64	755	460	28.1	93.6	1.00	27.22	C, US
	1800	324UC	LM21853	C/A	6,778	CCF4P25UC64	755	460	—	94.1	1.00	—	C, US
30	3600	326UC	LM21880	C/A	6,278	CCF2P30UC64	755	460	35.0	91.0	1.00	28.72	C, US
	1800	326UC	LM21856	C/A	7,859	CCF4P30UC64	755	460	—	94.1	1.00	—	C, US
40	3600	364UC	LM21883	C/A	8,302	CCF2P40UC64	917	460	45.0	93.6	1.00	29.38	C, US
	1800	364UC	LM21859	C/A	10,466	CCF4P40UC64	986	460	46.5	94.1	1.00	32.00	C, US
50	3600	365UC	LM21886	C/A	10,328	CCF2P50UC64	989	460	—	94.1	1.00	—	C, US
	1800	365UC	LM21862	C/A	12,182	CCF4P50UC64	1072	460	57.0	94.5	1.00	33.00	C, US
60	3600	405UC	LM21890	C/A	12,283	CCF2P60UC64	1143	460	65.5	94.1	1.00	34.12	C, US
	1800	405UC	LM21866	C/A	15,094	CCF4P60UC64	1123	460	67.5	95.0	1.00	37.00	C, US
75	3600	444UC	LM21877	C/A	16,094	CCF2P75UC64	1708	460	82.0	94.1	1.00	37.00	C, US
	1800	444UC	LM21869	C/A	18,618	CCF4P75UC64	1810	460	85.0	95.0	1.00	41.38	C, US
100	3600	445UC	LM21896	C/A	21,000	CCF2P100UC64	1708	460	—	95.4	1.00	—	C, US
	1800	445UC	LM21872	C/A	22,941	CCF4P100UC64	1810	460	—	95.4	1.00	—	C, US

▼ LM Numbers are Lincoln Models

♥ Note listing on inside back flap

C/A - Check Availability

Specifications are subject to change without notice

View On-line Technical Information



Explosion Proof
Motors

Automotive
Duty Motors

Pump
Motors

Washguard
Motors

Agricultural
Motors

HVAC / Fan
Motors

Special Voltage
Motors

Definite
Purpose Motors

Brake Motors

Pump Motors



- Jet pump, JM & JP pump, carbonator pump and fire pump motors
- Washdown duty pump motors available
- Explosion proof jet pump motors available
- Three phase and single phase models
- 1.15 service factor or better
- Jet pump motors have quick connect terminal boards
- Drip-proof and totally enclosed designs
- Drip-cover kits available on drip-proof designs
- Steel frame and cast iron frame designs
- Threaded jet pump motors have stainless steel shafts
- Jet pump single phase motors have automatic overload protection
- 1-year warranty on standard motors and 2-year warranty on "G" models
- UL recognized and CSA certified

Applications:

Designed for various applications that you may find in the pumping industry where direct coupled motor to pump is required.



Pump Motors

Jet Pump Motors - Single Phase

General Specifications:

- NEMA 56 C face mounting flange
- Keyed shafts made of carbon steel
- Threaded shafts made of 416 grade stainless steel
- Dual rotation - Key shaft motors only
- Quiet flow-through ventilation system
- Double sealed bearings on shaft end
- Terminal board with quick connects
- Locked shaft-end bearings
- Automatic overload protection
- UL recognized and CSA certified



Keyed Shaft - Drip-Proof - Single Phase - C Face Less Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over-load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥ Notes
1/2	3600	S56C	100204.00	✓	337	A4C34DC4	19	115/208-230	Auto.	3.4	1.60	9.49	S, MX, 30
3/4	3600	S56C	100205.00	✓	444	A4C34DC5	21	115/208-230	Auto.	5.1	1.50	9.99	S, MX, 30
1	3600	S56C	100722.00	✓	479	A4C34DC21	24	115/208-230	Auto.	5.7	1.40	10.49	S, MX, 30
1 1/2	3600	56C	110288.00	✓	629	U6C34DC18	31	115/208-230	Auto.	9.0	1.30	11.34	S, US, 30
2	3600	56C	110289.00	✓	811	U6C34DC19	37	115/208-230	Auto.	10.5	1.25	12.34	S, US, 30
3	3600	56C	117715.00	✓	829	U6K34DC19	49	230	Auto.	12.8	1.15	13.55	S, US, 30, 53

Specifications are subject to change without notice

♥ Note listing on inside back flap

Threaded Shaft - Drip-Proof - Single Phase - C Face Less Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over-load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥ Notes
1/2	3600	S56J	100207.00	✓	324	A4C34DC7	19	115/208-230	Auto.	3.4	1.60	10.00	S, MX, 30
3/4	3600	S56J	100208.00	✓	422	A4C34DC8	21	115/208-230	Auto.	5.1	1.50	10.50	S, MX, 30
1	3600	S56J	100723.00	✓	443	A4C34DC22	23	115/208-230	Auto.	5.7	1.40	11.00	S, MX, 30
1 1/2	3600	56J	110292.00	D	615	U6C34DC21	31	115/208-230	Auto.	9.0	1.30	11.34	S, US, 30
	3600	56J	119090.00	✓	517	119090.00	25	115/230	Auto.	9.2	1.30	11.89	S, MX, 30
2	3600	56J	110293.00	D	759	U6C34DC22	37	115/208-230	Auto.	10.5	1.25	12.34	S, US, 30
	3600	56J	119091.00	✓	698	119091.00	38	115/230	Auto.	10.6	1.20	13.73	S, MX, 30
3	3600	56J	117716.00	D	783	U6K34DC20	51	230	Auto.	12.8	1.15	14.15	S, US, 30, 53
	3600	56J	119092.00	✓	714	119092.00	38	115/230	Auto.	14.7	1.15	13.17	S, MX, 30, 53

D - Item to be deleted once inventory is depleted

♥ Note listing on inside back flap

Specifications are subject to change without notice

View On-line Technical Information



Explosion Proof Motors

Automotive Duty Motors

Pump Motors

Washguard Motors

Agricultural Motors

HVAC / Fan Motors

Special Voltage Motors

Define Purpose Motors

Brake Motors

Pump Motors

Jet Pump Motors - Single Phase

Threaded Shaft - Totally Enclosed - Single Phase • C Face Less Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over-load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
1/2	3600	56J	113955.00	✓	381	A6C34FC44	22	115/208-230	Auto.	3.8	1.60	11.31	S, US, 30
3/4	3600	56J	113956.00	✓	453	A6C34FC45	26	115/208-230	Auto.	5.0	1.50	11.81	S, US, 30
1	3600	56J	113639.00	✓	552	A6C34FC41	30	115/208-230	Auto.	6.0	1.25	12.31	S, US, 30
1 1/2	3600	56J	113640.00	✓	656	A6C34FC42	34	115/208-230	Auto.	8.5	1.00	12.81	S, US, 30
2	3600	56J	113641.00	✓	776	U6C34FC34	41	115/208-230	Auto.	10.0	1.00	13.81	S, US, 30

Specifications are subject to change without notice

♥ Note listing on inside back flap

Threaded Shaft - Totally Enclosed - Single Phase - C Face With Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over-load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
1/2	3600	56J	113637.00	✓	438	A6C34FK49	23	115/208-230	Auto.	3.8	1.60	11.31	S, US, 30
3/4	3600	56J	113638.00	✓	467	A6C34FK50	26	115/208-230	Auto.	5.0	1.50	11.81	S, US, 30
1	3600	56J	113957.00	✓	566	A6C34FK53	28	115/208-230	Auto.	6.0	1.25	12.31	S, US, 30
1 1/2	3600	56J	113958.00	✓	673	A6C34FK54	34	115/208-230	Auto.	8.5	1.00	12.81	S, US, 30
2	3600	56J	113959.00	✓	793	U6C34FK55	43	115/208-230	Auto.	10.0	1.00	13.81	S, US, 30

Specifications are subject to change without notice

♥ Note listing on inside back flap

Threaded Shaft - Explosion Proof - Totally Enclosed - Single Phase - C Face Less Base

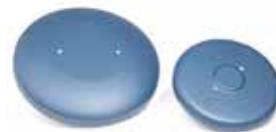
HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over-load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
1/2	3600	56J	116188.00	✓	778	A6C34XC31	35	115/208-230	Auto.	3.8	1.00	13.96	S, US
3/4	3600	56J	116186.00	✓	876	A6C34XC32	40	115/208-230	Auto.	5.0	1.00	14.46	S, US
1	3600	56J	116185.00	✓	940	A6C34XC33	49	115/208-230	Auto.	6.0	1.00	14.96	S, US
1 1/2	3600	56J	116183.00	✓	1,204	A6C34XC34	52	115/208-230	Auto.	8.5	1.00	15.46	S, US
2	3600	56J	116181.00	✓	1,311	A6C34XC35	54	115/208-230	Auto.	10.5	1.00	16.46	S, US

Specifications are subject to change without notice

♥ Note listing on inside back flap

Drip-Cover Kits

Each kit includes one drip-cover, designed to protect motors from rain, snow and ice when mounted outdoors in a vertical position.



Drip Cover Kits For Jet Pump Motors

Frame	Catalog Number	App. Wgt. (lbs)	List Price	♥Notes
48-S56	175003.00	2	54	
48-S56	175298.00	2	54	P
56 / 143T-145T	175004.00	2	62	

Note P - For motors having a "P" suffix on date code ♥ Note listing on inside back flap
Specifications are subject to change without notice



View On-line Technical Information

Pump Motors

Jet Pump Motors - Three Phase

General Specifications:

- NEMA 56 C face mounting flange
- Threaded shafts made of 303 grade stainless steel
- CCW rotation facing lead end
- Quiet flow-through ventilation system
- Double sealed bearings on shaft end
- Terminal board with quick connects
- Locked shaft end bearings
- Automatic overload protection on explosion proof Jet Pump motors
- UL recognized and CSA certified



Threaded Shaft - Drip-Proof - Three Phase - C Face Less Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥ Notes
1/3	3600	S56J	102197.00	✓	338	C4T34DC25	15	208-230/460	1.4	68.0	1.35	9.50	S, US
	1800	S56J	103723.00	✓	368	C4T17DC50	16	208-230/460	1.8	64.3	1.35	10.00	S, MX
1/2	3600	S56J	102198.00	✓	355	C4T34DC26	17	208-230/460	1.8	69.0	1.25	9.75	S, US
	1800	S56J	103724.00	✓	399	C4T17DC51	18	208-230/460	2.0	68.0	1.25	10.00	S, MX
3/4	3600	S56J	101637.00	✓	428	C4T34DC20	18	208-230/460	2.4	79.0	1.15	10.00	S, US
	1800	S56J	103725.00	✓	471	C4T17DC52	19	208-230/460	2.8	75.0	1.25	10.50	S, MX
1	3600	S56J	101638.00	✓	475	C4T34DC21	25	208-230/460	3.0	78.0	1.15	11.25	S, US
	1800	56J	117872.00	✓	502	C6T17DC89	26	208-230/460	4.2	78.5	1.15	10.87	S, US
1 1/2	3600	56J	113891.00	✓	568	C6T34DC64	28	208-230/460	4.2	81.5	1.15	11.34	S, US
	1800	56J	117873.00	✓	593	C6T17DC87	29	208-230/460	5.6	78.5	1.15	11.87	S, US
2	3600	56J	113892.00	✓	675	C6T34DC65	33	208-230/460	5.6	82.5	1.15	11.84	S, US
	1800	56J	117874.00	✓	678	C6T17DC88	34	208-230/460	6.2	78.5	1.15	11.87	S, US
3	3600	56J	113893.00	✓	797	C6T34DC66	36	208-230/460	7.6	84.0	1.15	12.34	S, US
5	3600	56J	116698.00	✓	874	C6T34DC92	45	208-230/460	12.4	85.5	1.15	13.88	S, US

Specifications are subject to change without notice

♥ Note listing on inside back flap

Threaded Shaft - Drip-Proof - Three Phase - C Face With Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥ Notes
1/2	3600	S56J	102199.00	✓	372	C4T34DK8	17	208-230/460	1.8	69.0	1.25	9.75	S, US
	1800	S56J	103726.00	✓	412	C4T17DK12	18	208-230/460	2.4	68.0	1.25	10.50	S, MX
3/4	3600	S56J	101776.00	✓	428	C4T34DK5	18	208-230/460	2.4	79.0	1.15	10.00	S, US
	1800	S56J	103727.00	✓	486	C4T17DK13	19	208-230/460	2.8	75.0	1.25	10.50	S, MX
1	3600	S56J	101775.00	✓	478	C4T34DK6	26	208-230/460	3.0	78.0	1.15	11.25	S, US
	1800	56J	117875.00	✓	515	C6T17DK34	28	208-230/460	4.2	78.5	1.15	10.87	S, US
1 1/2	3600	56J	114203.00	✓	582	C6T34DK5	33	208-230/460	4.2	81.5	1.15	11.34	S, US
	1800	56J	117876.00	✓	613	C6T17DK35	34	208-230/460	5.6	78.5	1.15	11.87	S, US
2	3600	56J	114202.00	✓	694	C6T34DK6	35	208-230/460	5.6	82.5	1.15	11.84	S, US
3	3600	56HJ	114201.00	✓	818	C6T34DK7	35	208-230/460	8.0	84.0	1.15	11.84	S, US
5	3600	56HJ	116699.00	✓	898	C6T34DK18	47	208-230/460	12.4	85.5	1.15	13.88	S, US

Specifications are subject to change without notice

♥ Note listing on inside back flap

View On-line Technical Information



Explosion Proof Motors

Automotive Duty Motors

Pump Motors

Washguard Motors

Agricultural Motors

HVAC / Fan Motors

Special Voltage Motors

Define Purpose Motors

Brake Motors

Pump Motors

Jet Pump Motors - Three Phase

Threaded Shaft - Totally Enclosed - Three Phase - C Face Less Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
1/2	3600	56J	114931.00	✓	402	C6T34FC49	21	208-230/460	2.0	67.0	1.15	10.81	S, US
3/4	3600	56J	114208.00	✓	444	C6T34FC37	22	208-230/460	2.4	75.5	1.15	11.31	S, US
1	3600	56J	114207.00	✓	528	C6T34FC38	25	208-230/460	3.2	77.0	1.15	11.31	S, US
1 1/2	3600	56J	114206.00	✓	549	C6T34FC39	31	208-230/460	4.2	81.5	1.15	12.31	S, US
2	3600	56J	114205.00	✓	695	C6T34FC40	40	208-230/460	5.6	82.5	1.15	12.81	S, US
3	3600	56J	114204.00	✓	752	C6T34FC41	52	208-230/460	7.6	84.0	1.15	13.31	S, US

Specifications are subject to change without notice

♥ Note listing on inside back flap

Threaded Shaft - Totally Enclosed - Three Phase - C Face With Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
3/4	3600	56J	113028.00	✓	533	C6T34FK34	23	208-230/460	2.4	75.5	1.15	11.31	S, US
1	3600	56J	113029.00	✓	544	C6T34FK35	24	208-230/460	3.2	77.0	1.15	11.31	S, US
1 1/2	3600	56J	113030.00	✓	561	C6T34FK36	31	208-230/460	4.2	81.5	1.15	12.31	S, US
2	3600	56J	113031.00	✓	703	C6T34FK37	36	208-230/460	5.6	82.5	1.15	12.81	S, US
3	3600	56HJ	113032.00	✓	767	C6T34FK38	39	208-230/460	7.6	84.0	1.15	13.31	S, US

Specifications are subject to change without notice

♥ Note listing on inside back flap

Threaded Shaft - Explosion Proof - TEFC/TENV Three Phase - C Face Less Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
1/2	3600	56J	116187.00	✓	961	A6T34EC28	33	208-230/460	1.6	82.5	1.00	12.87	S, US, 12, 47
1	3600	56J	116184.00	✓	1,034	A6T34XC31	33	208-230/460	3.6	77.0	1.00	13.46	S, US, 13
1 1/2	3600	56J	116182.00	✓	1,060	A6T34XC30	48	208-230/460	4.6	81.5	1.00	14.46	S, US, 13
2	3600	56J	116180.00	✓	1,108	A6T34XC29	50	208-230/460	6.0	82.5	1.00	14.96	S, US, 13

Note 12 - TENV

♥ Note listing on inside back flap

Specifications are subject to change without notice



View On-line Technical Information





Pump Motors

Washguard® Jet Pump Motors

Washdown duty three phase jet pump motors for industrial service. These motors include all of the features of LEESON's White Duck Washguard® motors with the addition of a 56J threaded shaft for use on jet pumps. For demanding pump applications in wet, humid, or washdown environments.



Washguard® - Jet Pump - Threaded Shaft Three Phase - TEFC - C Face Less Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
3/4	3600	56J	116774.00	✓	695	C6T34WC14	23	208-230/460	2.4	75.5	1.15	10.81	S, US
1	3600	56J	116775.00	✓	808	C6T34WC15	35	208-230/460	3.2	77.0	1.15	10.81	S, US
1 1/2	3600	56J	116776.00	✓	860	C6T34WC13	42	208-230/460	4.2	81.5	1.15	11.81	S, US
2	3600	56J	116777.00	✓	983	C6T34WC11	47	208-230/460	5.6	82.5	1.15	12.31	S, US
3	3600	56J	116778.00	✓	1,031	C6T34WC10	49	208-230/460	7.6	84.0	1.15	13.25	S, US

Specifications are subject to change without notice

♥ Note listing on inside back flap



Washguard® - Jet Pump - Threaded Shaft Three Phase - TEFC - C Face With Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
3/4	3600	56J	116779.00	✓	714	C6T34WK12	24	208-230/460	2.4	75.5	1.15	10.81	S, US
1	3600	56J	116780.00	✓	829	C6T34WK13	36	208-230/460	3.2	77.0	1.15	10.81	S, US
1 1/2	3600	56J	116781.00	✓	899	C6T34WK11	43	208-230/460	4.2	81.5	1.15	11.81	S, US
2	3600	56J	116782.00	✓	999	C6T34WK10	48	208-230/460	5.6	82.5	1.15	12.31	S, US
3	3600	56J	116783.00	✓	1,064	C6T34WK9	50	208-230/460	7.6	84.0	1.15	13.25	S, US

Specifications are subject to change without notice

♥ Note listing on inside back flap

View On-line Technical Information



Explosion Proof Motors

Automotive Duty Motors

Pump Motors

Washguard Motors

Agricultural Motors

HVAC / Fan Motors

Special Voltage Motors

Definite Purpose Motors

Brake Motors

Pump Motors

ecoSaver™



Features:

- 303 Stainless Shaft
- Capacitor Run Low Speed, PSC High Speed
- Meets California Energy Commission Appliance Regulations 2008
- Integrated Timer Interface
- Timer Mode or Manual Mode
- Over Current Protection
- Battery Backup - Program Saver
- LCD Display with Backlight
- Class B insulation
- High Efficiency - High and Low Speed
- Rotation - CCW Pump End

Jet Pump - 2-speed - With Timer

Single Phase - Drip Proof - C Face Less Base

Available June 2014

HP	RPM	Frame	Catalog Number	List Price	App. Wgt. (lbs)	Voltage	Over-load Prot.	F. L. Amps	"C" Dim. (Inches)	♥Notes
3/4 - .10	3600/1800	56J	117913.00		26	115	Auto	2.9	12.30	S, MX
1 - .12	3600/1800	56J	117914.00		30	230	Auto	4.2	13.05	S, MX
2 - .25	3600/1800	56J	117915.00		42	230	Auto	4.2	13.55	S, MX
3 - .38	3600/1800	56J	117916.00		45	230	Auto	5.4	14.29	S, MX

Contact Sales Office for List Price information
Specifications are subject to change without notice

♥ Note listing on inside back flap

Carbonator Pump Motors

Application information:

Used in liquid transfer pumps that you may see in vending machines
ideal for compact pump to motor mount applications.

Features:

- Interchangeable with OEM units
- Automatic overload protection
- Ball bearing designs

Single Phase - Drip-Proof - Rigid or Resilient Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps	Service Factor	"C" Dim. (Inches)	♥Notes
1/4	1800	48Y	103520.00	✓	199	A4S17DR62	14	208-240	2.3-2.4	1.0	7.69	S, MX, 63
	1800	48Y	103530.00	✓	209	A4S17DR63	16	115/230	4.3-2.2	1.0	8.75	S, MX, 63
1/3	1800	48Y	103521.00	✓	212	A4S17DR64	14	100-120/200-240	5.5-5.6/2.7-2.8	1.0	7.69	S, MX, 60
	1800	48Y	103531.00	✓	218	A4S17DR65	14	100-120/200-240	5.5-5.6/2.7-2.8	1.0	7.69	S, MX, 63
1/2	1800	48Y	103522.00	✓	238	A4S17DR66	17	100-120/200-240	7.1-7.2/3.4-3.6	1.0	8.75	S, MX, 63
3/4	1800	48Y	103523.00	✓	285	A4S17DR67	19	115/230	10.4/5.2	1.0	9.15	S, MX, 63

Note 60 - Rigid Base

♥ Note listing on inside back flap

Note 63 - Resilient Base

Specifications are subject to change without notice



View On-line Technical Information



JP Pump Motors - Single & Three Phase

General Specifications:

For use with close-coupled pumps having NEMA JP mounting and shaft dimensions. In such applications, the pump impeller is mounted directly on the motor shaft.

For use where the environment is relatively clean and dry. For outdoor use, an enclosure or drip cover may be preferred.

Features:

- Open drip-proof construction with rigid base mounting.
- Locked bearing on shaft end limits axial shaft movement
- Drip cover kits available
- UL recognized and CSA certified
- Single phase designs are capacitor start, induction run
- All 180 and 210 frame rolled steel motors have class F insulation

Single Phase - Drip-Proof - C Face With Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
5	3600	184JP	131881.00	✓	1,438	C184K34DK6	95	230	22.0	1.15	19.38	S, MX
7 1/2	3600	213JP	140646.00	✓	1,708	C213K34DK1	121	230	37.0	1.15	14.17	S, MX, 37
10	3600	215JP	140647.00	✓	2,303	C215K34DK1	138	230	47.0	1.15	15.67	S, MX, 37

Specifications are subject to change without notice

♥ Note listing on inside back flap

Three Phase - Drip-Proof - C Face With Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
1 1/2	1800	145JP	G121846.00	✓	564	C145T17DK16	38	208-230/460	4.4	84.0	1.15	17.68	S, US, 39
2	1800	145JP	G121847.00	✓	588	C145T17DK17	46	208-230/460	5.8	84.0	1.15	18.48	S, US, 39
3	3600	145JP	G121849.00	✓	740	C145T34DK12	46	208-230/460	8.4	84.0	1.15	16.68	S, US, 39
	1800	182JP	G131882.00	✓	769	C182T17DK20	58	208-230/460	9.2	86.5	1.15	19.91	S, MX, 14, 45
5	3600	182JP	G131884.00	✓	888	C182T34DK13	65	208-230/460	12.0	85.5	1.15	19.65	S, MX, 45
	1800	182JP	G131883.00	✓	883	C184T17DK29	70	208-230/460	13.2	87.5	1.15	20.41	S, MX, 45
7 1/2	3600	184JP	G131885.00	✓	1,063	C184T34DK19	80	208-230/460	17.6	87.5	1.15	20.41	S, MX, 45
	1800	213JP	G140667.00	✓	1,452	C213T17DK14	146	208-230/460	19.2	88.5	1.15	23.03	S, MX, 41
10	3600	213JP	G140655.00	✓	1,367	C213T34DK2	140	208-230/460	23.4	88.5	1.15	23.03	S, US, 37
	1800	215JP	G140668.00	✓	1,659	C215T17DK12	134	208-230/460	25.0	89.5	1.15	25.00	S, MX, 41
15	3600	215JP	G140656.00	✓	1,691	C215T34DK2	147	208-230/460	34.0	89.5	1.15	34.00	S, US, 37
	1800	254JP	G801051.00	✓	2,051	254TTDX14067	170	208-230/460	38.5	91.0	1.15	38.50	S, MX
20	3600	254JP	G801056.00	✓	2,131	254TTDX14305	175	208-230/460	46.0	90.2	1.15	25.29	S, US
	1800	256JP	G801052.00	✓	2,478	256TTDX14054	222	208-230/460	52.0	91.0	1.15	52.00	S, MX
25	3600	256JP	G801057.00	✓	2,510	256TTDX14019	181	208-230/460	58.0	91.0	1.15	27.04	S, US
	1800	284JP	G801053.00	✓	3,332	284TTDP14048	332	230/460	61.0	91.7	1.15	27.18	C, US
30	3600	284JP	G801058.00	✓	3,344	284TTDP14012	336	230/460	73.0	91.0	1.15	27.18	C, US
	1800	286JP	G801054.00	✓	3,458	286TTDP14052	342	230/460	72.0	92.4	1.15	28.68	C, US
40	3600	286JP	G801059.00	✓	3,686	286TTDP14012	385	230/460	94.0	91.7	1.15	28.68	C, US
	1800	324JP	G801055.00	✓	3,721	324TTDP14052	487	230/460	97.0	93.0	1.15	29.12	C, US
50	3600	324JP	G801060.00	✓	4,896	324TTDP14014	472	230/460	117.0	92.4	1.15	29.12	C, US

Specifications are subject to change without notice

♥ Note listing on inside back flap

Drip-Cover Kits For JP Pump Motors – See ♥ Note listing

Frame	Catalog Number	List Price	Enclosure	♥Notes
56-145JP	175932.00	34	ODP or TEFC	39
182JP-184JP	175933.00	38	ODP	40
213JP-215JP	175305.00	110	ODP	37
213JP-215JP	175846.00	110	ODP	41
182JP-184JP	175614.00	78	ODP	45

View On-line Technical Information



Explosion Proof Motors

Automotive Duty Motors

Pump Motors

Washguard Motors

Agricultural Motors

HVAC / Fan Motors

Special Voltage Motors

Define Purpose Motors

Brake Motors

Pump Motors

JM Pump Motors - Single & Three Phase

General Specifications:

Designed for continuous duty service on close-coupled pumps using NEMA JM mounting provisions. All motors have a rigid mounting base and NEMA JM pump shaft.

Features:

- Cooling air exhausts at shaft end for maximum cooling
- Locked bearing shaft end
- Drip-cover kits available

Electrical Features:

- High efficiency copper windings
- UL and CSA recognized designs
- Single phase designs are capacitor start/induction run unless indicated otherwise
- Class F Insulation



Single Phase - Drip-Proof - C Face With Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
1	1800	143JM	120996.00	√	829	C143C17DK1	42	115/208-230	6.4	1.15	13.91	S, US, 38
1 1/2	1800	145JM	120994.00	√	835	C145K17DK8	45	115/208-230	8.6	1.15	14.91	S, US, 38, 53
2	3600	145JM	121190.00	√	855	C145C34DK3	47	115/208-230	10.5	1.15	14.91	S, US, 38
	1800	145JM	120995.00	√	837	C145K17DK9	45	115/208-230	10.5	1.15	15.41	S, US, 38, 53
	1800	182JM	132073.00	√	874	C182C17DK3	70	115/208-230	12.4	1.15	13.19	S, MX, 40
3	3600	182JM	131640.00	√	1,012	C182K34DK1	80	115/208-230	15.2	1.15	16.32	S, MX, 45, 53
	1800	182JM	131604.00	√	1,163	C182C17DK2	73	230	16.8	1.15	15.82	S, MX, 45
5	3600	184JM	131641.00	√	1,438	C184K34DK3	95	115/208-230	24.0	1.15	17.32	S, MX, 40, 53
	1800	184JM	131605.00	√	1,652	C184K17DK14	82	230	21.0	1.15	16.32	S, MX, 40, 53
7 1/2	3600	213JM	140642.00	√	2,045	C213K34DK2	109	230	37.0	1.15	14.17	S, MX, 37, 53
	1800	215JM	140665.00	√	2,178	C215K17DK1	141	230	40.5	1.15	18.38	S, MX, 37, 53
10	3600	215JM	140644.00	√	2,303	C215K34DK2	135	230	47.0	1.15	18.38	S, MX, 37, 53
	1800	215JM	140666.00	√	2,695	C215K17DK2	144	230	43.0	1.15	19.88	S, MX, 37, 53

Specifications are subject to change without notice

♥ Note listing on inside back flap



View On-line Technical Information

Pump Motors

JM Pump Motors - Single & Three Phase

Three Phase - Drip-Proof - C Face With Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
1	1800	143JM	G121850.00	✓	575	C143T17DK3	44	208-230/460	3.1	82.5	1.15	14.62	S, WP, 39
1 1/2	1800	145JM	G121851.00	✓	623	C145T17DK18	44	208-230/460	4.8	84.0	1.15	14.62	S, WP, 39
2	3600	145JM	G121853.00	✓	720	C145T34DK13	44	208-230/460	5.4	84.0	1.15	13.42	S, WP, 39
	1800	145JM	G121852.00	✓	647	C145T17DK19	48	208-230/460	5.8	84.0	1.15	15.12	S, WP, 39
3	3600	145JM	G121854.00	✓	798	C145T34DK14	45	208-230/460	8.4	84.0	1.15	13.62	S, WP, 39
	1800	182JM	G131562.00	✓	854	C182T17DK19	64	208-230/460	9.2	86.5	1.15	16.09	S, MX, 45
5	3600	182JM	G131574.00	✓	1,051	C182T34DK12	66	208-230/460	12.0	85.5	1.15	16.35	S, MX, 45
	1800	184JM	G131563.00	✓	984	C184T17DK28	71	208-230/460	13.2	87.5	1.15	17.09	S, MX, 45
7 1/2	3600	184JM	G131576.00	✓	1,154	C184T34DK18	108	208-230/460	17.6	87.5	1.15	17.09	S, MX, 45
	1800	213JM	G140618.00	✓	1,228	C213T17DK13	147	208-230/460	19.2	88.5	1.15	19.16	S, MX, 41
10	3600	213JM	G141121.00	✓	1,364	C213T34DK5	130	208-230/460	23.4	88.5	1.15	19.16	S, MX, 37
	1800	215JM	G140619.00	✓	1,404	C215T17DK11	135	208-230/460	25.0	89.5	1.15	19.16	S, MX, 41
15	3600	215JM	G151380.60	✓	1,956	C215T34DK9	175	208-230/460	34.0	89.5	1.15	20.41	C, CN, 43
	1800	254JM	G151361.60	✓	2,110	C254T17DK7	268	208-230/460	38.5	91.0	1.15	25.45	C, CN, 44
20	3600	254JM	G151381.60	✓	2,127	C254T34DK5	261	208-230/460	46.0	90.2	1.15	22.42	C, CN, 44
	1800	256JM	G151362.60	✓	2,222	C256T17DK5	310	208-230/460	52.0	91.0	1.15	24.17	C, CN, 44
25	3600	256JM	G151382.60	✓	2,660	C256T34DK5	295	208-230/460	58.0	91.0	1.15	24.17	C, CN, 44
	1800	284JM	G801028.00	✓	3,297	284TTDP14049	391	230/460	66.0	91.7	1.15	24.31	C, US
30	3600	284JM	G801040.00	✓	3,335	284TTDP14013	376	230/460	73.0	91.0	1.15	24.31	C, US
	1800	286JM	G801029.00	✓	3,458	286TTDP14053	437	230/460	72.0	92.4	1.15	25.81	C, US
40	3600	286JM	G801041.00	✓	3,828	286TTDP14011	429	230/460	94.0	91.7	1.15	25.81	C, US
	1800	324JM	G801030.00	✓	4,517	324TTDP14055	531	230/460	97.0	93.0	1.15	26.25	C, US
50	3600	324JM	G801042.00	✓	5,203	324TTDP14013	514	230/460	117.0	92.4	1.15	26.25	C, US

Specifications are subject to change without notice

♥ Note listing on inside back flap

Drip-Cover Kits For JM Pump Motors – See ♥ Note listing

Frame	Catalog Number	List Price	Enclosure	♥Notes
143-145JM	175004.00	62	ODP	38
143-145JM	175932.00	34	ODP or TEFC	39
182-184JM	175933.00	38	ODP	40
182-184JM	175695.00	186	TEFC	
213-215JM	175305.00	110	ODP	37
213-215JM	175846.00	110	ODP	41
213-215JM	175849.00	110	TEFC	42
213-215JM	175962.00	110	ODP	43
254-256JM	175963.00	140	ODP	44
182-184JM	175614.00	78	ODP	45

‡ For use with Cast Iron Motors

View On-line Technical Information



Explosion Proof Motors

Automotive Duty Motors

Pump Motors

Washguard Motors

Agricultural Motors

HVAC / Fan Motors

Special Voltage Motors

Definite Purpose Motors

Brake Motors

Pump Motors

JM Pump Motors - TEFC - Three Phase

General Specifications:

Designed for continuous duty service on close-coupled pumps using NEMA JM mounting provisions. All motors have a rigid mounting base and NEMA JM pump shaft and face mount.

Features:

- Totally enclosed fan cooled construction for maximum life in dirty or severe environments. Oversized locked bearing on shaft end limits axial shaft movement. Drip covers are available as accessory kits for 143-5JM and 182-4JM motors—see letter designations in the table for the correct kit. Some 182-4JM frame motors have enclosed endshields as standard with frame vents meeting the 12° drip-proof requirement. No drip cover is needed, or shown in the table, for these motors
- Oversized locked bearing on shaft end limits axial shaft movement
- Drip cover kits available
- High efficiency copper windings
- UL and CSA recognized designs



Three Phase - TEFC - C Face With Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥ Notes
1	1800	143JM	G121855.00	✓	640	C143T17FK19	35	208-230/460	3.0	82.5	1.15	15.00	S, MX
1 1/2	3600	143JM	G121858.00	✓	645	C143T34FK14	37	208-230/460	4.0	82.5	1.15	15.00	S, US
	1800	145JM	G121856.00	✓	699	C145T17FK53	46	208-230/460	4.4	84.0	1.15	16.50	S, US
2	3600	145JM	G121859.00	✓	792	C145T34FK37	38	208-230/460	5.2	84.0	1.15	15.50	S, US
	1800	145JM	G121857.00	✓	695	C145T17FK54	50	208-230/460	5.6	84.0	1.15	16.00	S, US
3	3600	145JM	G121860.00	✓	839	C145T34FK38	49	208-230/460	7.4	85.5	1.15	17.35	S, US
	1800	182JM	G131579.00	✓	851	C182T17FK26	75	230/460	8.4	87.5	1.15	17.85	S, MX
5	3600	184JM	G131580.00	✓	1,139	C184T34FK39	82	208-230/460	12.4	87.5	1.15	18.35	S, MX
	1800	184JM	G131581.00	✓	1,108	C184T17FK33	97	230/460	12.6	87.5	1.15	18.85	S, MX
7 1/2	3600	184JM	G131582.00	✓	1,263	C184T34FK40	104	208-230/460	18.4	88.5	1.00	22.09	S, MX
	3600	S213JM	G132027.00	✓	1,394	C184T34FK41	121	208-230/460	18.4	88.5	1.15	22.09	S, MX
	1800	213JM	G140622.00	✓	1,472	C213T17FK23	127	208-230/460	20.0	89.5	1.15	20.59	S, MX
10	3600	213JM	G141122.00	✓	1,686	C213T34FK2	130	208-230/460	24.0	89.5	1.15	22.09	S, MX
	1800	215JM	G140623.00	✓	1,815	C215T17FK18	145	208-230/460	25.6	90.2	1.15	22.09	S, MX
15	3600	215JM	G140764.00	✓	2,022	C215T34FK10	139	208-230/460	35.0	90.2	1.15	24.74	S, MX
	3600	254JM	G151567.60	✓	2,359	C254T34FK11	171	208-230/460	35.0	90.2	1.15	24.80	C, CN
	1800	254JM	G151568.60	✓	2,295	A254T17FK12	287	208-230/460	37.0	91.0	1.15	24.80	C, CN
20	3600	254JM	G151569.60	✓	2,574	C254T34FK12	299	208-230/460	46.2	90.2	1.15	24.80	C, CN
	1800	256JM	G151570.60	✓	2,784	C256T17FK5	324	208-230/460	48.2	91.0	1.15	26.50	C, CN
25	3600	256JM	G151417.60	✓	3,187	C256T34FK8	311	208-230/460	56.4	91.0	1.15	28.00	C, CN
	1800	284JM	G151418.60	✓	3,134	C284T17FK6	373	208-230/460	58.8	92.4	1.15	28.17	C, CN
30	3600	284JM	G151420.60	✓	3,781	C284T34FK12	378	208-230/460	69.2	91.0	1.15	28.17	C, CN
	1800	286JM	G151422.60	✓	3,720	C286T17FK11	431	208-230/460	69.8	92.4	1.15	29.74	C, CN
40	3600	286JM	G151424.60	✓	4,712	C286T34FK16	499	208-230/460	93.0	91.7	1.15	29.74	C, CN
	1800	324JM	G151426.60	✓	4,564	C324T17FK12	531	208-230/460	90.0	93.0	1.15	32.33	C, CN

Specifications are subject to change without notice

♥ Note listing on inside back flap



View On-line Technical Information

Pump Motors

JP Pump Motors - TEFC - Three Phase

General Specifications:

For use with close-coupled pumps having NEMA JP mounting and shaft dimensions. Used in applications where the pump impeller is mounted directly on the motor shaft. Designed for continuous duty service.

Features:

- 1.25 Service Factor
- All cast iron construction
- EPA efficient
- Re-greasable bearings
- UL recognized and CSA certified
- Class F Insulation



TEFC JP Pump Motors - C Face With Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥ Notes
1 1/2	1800	145JP	G151736.60	✓	591	C145T17FK60	54	208-230/460	4.5	85.5	1.15	18.66	C, CN
2	1800	145JP	G151737.60	✓	610	C145T17FK61	57	208-230/460	5.8	85.5	1.15	18.66	C, CN
3	3600	182JP	G151738.60	✓	1,108	C182T34FK12	91	208-230/460	7.4	85.5	1.15	20.71	C, CN
	1800	182JP	G151739.60	✓	1,016	C182T17FK24	95	208-230/460	8.5	87.5	1.15	20.71	C, CN
5	3600	184JP	G151740.60	✓	1,137	C184T34FK35	103	208-230/460	12.0	87.5	1.15	20.71	C, CN
	1800	184JP	G151741.60	✓	1,123	C184T17FK31	103	208-230/460	13.8	87.5	1.15	20.71	C, CN
7 1/2	3600	184JP	G151742.60	✓	1,367	C184T34FK38	156	208-230/460	17.8	88.5	1.15	20.71	C, CN
	1800	213JP	G151743.60	✓	1,285	C213T17FK17	158	208-230/460	19.2	89.5	1.15	24.02	C, CN
10	3600	213JP	G151744.60	✓	1,594	C213T34FK4	166	208-230/460	23.6	89.5	1.15	24.02	C, CN
	1800	215JP	G151745.60	✓	1,550	C215T17FK13	179	208-230/460	25.2	89.5	1.15	25.74	C, CN
15	3600	215JP	G151746.60	✓	2,233	C215T34FK14	249	208-230/460	35.0	90.2	1.15	25.74	C, CN
	1800	254JP	G151747.60	✓	2,370	C254T17FK10	281	208-230/460	37.0	92.4	1.15	28.03	C, CN
20	3600	254JP	G151748.60	✓	2,958	C254T34FK10	260	208-230/460	46.2	90.2	1.15	28.03	C, CN
	1800	256JP	G151749.60	✓	2,802	C256T17FK10	324	208-230/460	48.2	91.0	1.15	29.76	C, CN
25	3600	256JP	G151750.60	✓	3,529	C256T34FK7	366	208-230/460	58.2	91.0	1.15	29.76	C, CN
	1800	284JP	G151751.60	✓	3,543	C284T17FK8	391	208-230/460	58.8	92.4	1.15	30.04	C, CN
30	3600	284JP	G151752.60	✓	3,842	C286T34FK7	380	208-230/460	69.2	91.0	1.15	30.04	C, CN
	1800	286JP	G151753.60	✓	3,722	C286T17FK7	438	208-230/460	69.8	92.4	1.15	31.61	C, CN
40	3600	286JP	G151754.60	✓	4,860	C324T34FK9	580	208-230/460	93.0	91.7	1.15	31.61	C, CN
	1800	324JP	G151755.60	✓	4,632	C324T17FK8	583	208-230/460	90.0	93.0	1.15	32.80	C, CN
50	3600	324JP	G151756.60	✓	5,979	C326T34FK7	610	208-230/460	112.0	92.4	1.15	34.17	C, CN

Specifications are subject to change without notice

♥ Note listing on inside back flap

View On-line Technical Information



Explosion Proof Motors

Automotive Duty Motors

Pump Motors

Washguard Motors

Agricultural Motors

HVAC / Fan Motors

Special Voltage Motors

Definite Purpose Motors

Brake Motors

Pump Motors

Lincoln Fire Pump Motors - Drip-Proof - Rigid Base



Features:

- 25 to 500 horsepower
- 3600 & 1800 RPM's
- 250 frame rolled steel construction
- 280 frame and larger - cast iron construction
- EPM efficiency
- Ball bearings
- NEMA design B, code G
- 230/460 and 460 volt motors rated for 50HZ at next lower HP, with 1.15 S.F. on nameplate
- Dual voltage motors – 12 leads suitable for Y-Delta, low voltage PWS, and across the line start
- Single voltage motors – 12 leads suitable for Y-Delta, PWS, and across the line start
- C Face kits available through 250HP
- For special designs contact district sales office near you
- Exterior red paint
- UL listed and CSA certified (UL1004A) and CE marked

Three Phase - Drip-Proof - Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	* F. L. Amps	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥ Notes
25	3600	256T	LM80103	C/A	1,769	SSD2P25T62AP5	164	200/400	—	91.0	1.15	—	S, US
	3600	256T	LM80104	C/A	1,769	SSD2P25T61AP5	164	230/460	58.0	91.0	1.15	22.32	S, US
	1800	284T	LM80105	C/A	2,484	CCD4P25T62YAP5	420	200/400	70.0	91.7	1.15	23.49	C, US
	1800	284T	LM80106	C/A	2,484	CCD4P25T61YAP5	420	230/460	61.0	91.7	1.15	23.49	C, US
30	3600	284TS	LM80107	C/A	2,661	CCD2P30TS62YAP5	318	200/400	83.0	91.0	1.15	22.06	C, US
	3600	284TS	LM80108	C/A	2,661	CCD2P30TS61YAP5	318	230/460	72.0	91.0	1.15	22.06	C, US
	1800	286T	LM80109	C/A	2,928	CCD4P30T62YAP5	364	200/400	83.0	92.4	1.15	23.56	C, US
	1800	286T	LM80110	C/A	2,928	CCD4P30T61YAP5	364	230/460	72.0	92.4	1.15	23.49	C, US
40	3600	286TS	LM80111	C/A	2,969	CCD2P40TS62YAP5	360	200/400	123.0	91.7	1.15	23.64	C, US
	3600	286TS	LM80112	✓	2,969	CCD2P40TS61YAP5	360	230/460	107.0	91.7	1.15	23.56	C, US
	1800	324TS	LM80113	C/A	3,294	CCD4P40TS62YAP5	465	200/400	127.0	93.0	1.15	24.50	C, US
	1800	324TS	LM80114	C/A	3,294	CCD4P40TS61YAP5	465	230/460	97.0	93.0	1.15	24.50	C, US
	1800	324T	LM80115	C/A	3,294	CCD4P40T62YAP5	465	200/400	112.0	93.0	1.15	26.00	C, US
	1800	324T	LM80116	✓	3,294	CCD4P40T61YAP5	465	230/460	97.0	93.0	1.15	26.00	C, US
50	3600	324TS	LM80117	C/A	3,141	CCD2P50TS62YAP5	415	200/400	135.0	92.4	1.15	24.50	C, US
	3600	324TS	LM80118	✓	3,141	CCD2P50TS61YAP5	415	230/460	117.0	92.4	1.15	24.50	C, US
	1800	326TS	LM80119	C/A	3,509	CCD4P50TS62YAP5	515	200/400	142.0	93.0	1.15	26.00	C, US
	1800	326TS	LM80120	C/A	3,509	CCD4P50TS61YAP5	515	230/460	123.0	93.0	1.15	26.00	C, US
	1800	326T	LM80121	C/A	3,509	CCD4P50T62YAP5	515	200/400	161.0	93.0	1.15	26.00	C, US
	1800	326T	LM80122	✓	3,509	CCD4P50T61YAP5	515	230/460	123.0	93.0	1.15	27.50	C, US

▼ LM Numbers are Lincoln Models

♥ Note listing on inside back flap

* Full load Amps at lowest listed voltage

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C/A - Check Availability

Specifications are subject to change without notice



View On-line Technical Information



Lincoln Fire Pump Motors - Drip-Proof - Rigid Base

Three Phase - Drip-Proof - Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	* F. L. Amps	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥ Notes
60	3600	326TS	LM80123	C/A	3,500	CCD2P60TS62YAP5	340	200/400	155.0	93.0	1.15	26.00	C, US
	3600	326TS	LM80124	✓	3,500	CCD2P60TS61YAP5	340	230/460	135.0	93.0	1.15	26.00	C, US
	1800	364TS	LM80125	C/A	6,639	CCD4P60TS62YAP5	805	200/400	166.0	93.6	1.15	26.50	C, US
	1800	364TS	LM80126	C/A	6,639	CCD4P60TS61YAP5	805	230/460	144.0	93.6	1.15	26.50	C, US
	1800	364T	LM80127	C/A	6,639	CCD4P60T62YAP5	805	200/400	166.0	93.6	1.15	28.62	C, US
	1800	364T	LM80128	C/A	6,639	CCD4P60T61YAP5	805	230/460	144.0	93.6	1.15	28.62	C, US
75	3600	364TS	LM80129	C/A	6,485	CCD2P75TS62YAP5	950	200/400	211.0	93.0	1.15	26.50	C, US
	3600	364TS	LM80130	✓	6,893	CCD2P75TS61YAP5	950	230/460	183.0	93.0	1.15	26.50	C, US
	1800	365TS	LM80131	C/A	6,908	CCD4P75TS62YAP5	766	200/400	204.0	94.1	1.15	27.50	C, US
	1800	365TS	LM80132	C/A	6,908	CCD4P75TS61YAP5	766	230/460	177.0	94.1	1.15	27.50	C, US
	1800	365T	LM80133	C/A	6,908	CCD4P75T62YAP5	766	200/400	204.0	94.1	1.15	29.62	C, US
	1800	365T	LM80134	✓	6,908	CCD4P75T61YAP5	766	230/460	177.0	94.1	1.15	29.62	C, US
100	3600	365TS	LM80135	C/A	6,750	CCD2P100TS62YAP5	730	200/400	276.0	93.0	1.15	27.50	C, US
	3600	365TS	LM80136	✓	6,750	CCD2P100TS61YAP5	730	230/460	240.0	93.0	1.15	27.50	C, US
	1800	404TS	LM80137	C/A	8,494	CCD4P100TS62YAP5	1065	200/400	267.0	94.1	1.15	29.50	C, US
	1800	404TS	LM80138	C/A	8,494	CCD4P100TS61YAP5	1065	230/460	236.0	94.1	1.15	29.50	C, US
	1800	404T	LM80139	C/A	8,494	CCD4P100T62YAP5	1065	200/400	271.0	94.1	1.15	32.50	C, US
	1800	404T	LM80140	✓	8,494	CCD4P100T61YAP5	1065	230/460	236.0	94.1	1.15	32.50	C, US
125	3600	404TS	LM80141	C/A	8,043	CCD2P125TS62YAP5	949	200/400	327.0	93.6	1.15	29.50	C, US
	3600	404TS	LM80142	✓	8,043	CCD2P125TS61YAP5	949	230/460	284.0	93.6	1.15	29.50	C, US
	1800	405TS	LM80143	C/A	9,084	CCD4P125TS62YAP5	1070	200/400	327.0	94.5	1.15	29.50	C, US
	1800	405TS	LM80144	C/A	9,084	CCD4P125TS61YAP5	1070	230/460	288.0	94.5	1.15	31.00	C, US
	1800	405T	LM80145	C/A	9,084	CCD4P125T62YAP5	1070	200/400	331.0	94.5	1.15	34.00	C, US
	1800	405T	LM80146	✓	9,084	CCD4P125T61YAP5	1070	230/460	288.0	94.5	1.15	34.00	C, US
150	3600	405TS	LM80147	C/A	8,291	CCD2P150TS6011PYAP5	983	400	194.0	93.6	1.15	31.00	C, US
	3600	405TS	LM80148	✓	8,291	CCD2P150TS64PYAP5	983	460	169.0	93.6	1.15	31.00	C, US
	1800	444TS	LM80149	C/A	10,619	CCD4P150TS6011PYAP5	1265	400	199.0	95.0	1.15	34.00	C, US
	1800	444TS	LM80150	C/A	10,619	CCD4P150TS64PYAP5	1265	460	173.0	95.0	1.15	34.00	C, US
	1800	444T	LM80151	C/A	10,619	CCD4P150T6011PYAP5	1265	400	199.0	95.0	1.15	37.75	C, US
	1800	444T	LM80152	✓	10,619	CCD4P150T64PYAP5	1265	460	173.0	95.0	1.15	37.75	C, US
200	3600	444TS	LM80153	C/A	10,731	CCD2P200TS6011PYAP5	1315	400	259.0	94.5	1.15	34.00	C, US
	3600	444TS	LM80154	✓	10,731	CCD2P200TS64PYAP5	1315	460	225.0	94.5	1.15	34.00	C, US
	1800	445TS	LM80155	C/A	11,408	CCD4P200TS6011PYAP5	1412	400	268.0	95.0	1.15	36.00	C, US
	1800	445TS	LM80156	C/A	11,408	CCD4P200TS64PYAP5	1412	460	233.0	95.0	1.15	36.00	C, US
	1800	445T	LM80157	C/A	11,408	CCD4P200T6011PYAP5	1412	400	268.0	95.0	1.15	39.75	C, US
	1800	445T	LM80158	✓	11,408	CCD4P200T64PYAP5	1412	460	233.0	95.0	1.15	39.75	C, US
250	3600	445TS	LM80159	C/A	11,466	CCD2P250TS6011PYAP5	1387	400	321.0	94.5	1.15	36.00	C, US
	3600	445TS	LM80160	✓	11,466	CCD2P250TS64PYAP5	1387	460	279.0	94.5	1.15	36.00	C, US
	1800	445TS	LM80161	C/A	12,562	CCD4P250TS6011PYAP5	1428	400	328.0	95.4	1.15	36.00	C, US
	1800	445TS	LM80162	C/A	12,562	CCD4P250TS64PYAP5	1428	460	285.0	95.4	1.15	36.00	C, US
	1800	445T	LM80163	C/A	12,562	CCD4P250T6011PYAP5	1428	400	328.0	95.4	1.15	39.75	C, US
	1800	445T	LM80164	✓	12,562	CCD4P250T64PYAP5	1428	460	285.0	95.4	1.15	39.75	C, US

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♥ Note listing on inside back flap

* Full load Amps at lowest listed voltage

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Explosion Proof Motors

Automotive Duty Motors

Pump Motors

Washguard Motors

Agricultural Motors

HVAC / Fan Motors

Special Voltage Motors

Definite Purpose Motors

Brake Motors

Pump Motors

Lincoln Fire Pump Motors - Drip-Proof - Rigid Base

Three Phase - Drip-Proof - Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	* F. L. Amps	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥ Notes
300	3600	447TS	LM80165	C/A	15,388	CCD2P300TS6011PYAP5	2255	400	382.0	95.0	1.15	39.50	C, US
	3600	447TS	LM80166	✓	15,388	CCD2P300TS64PYAP5	2255	460	332.0	95.0	1.15	39.50	C, US
	1800	447TS	LM80167	C/A	16,169	CCD4P300TS6011PYAP5	1952	400	397.0	95.4	1.15	39.50	C, US
	1800	447TS	LM80168	C/A	16,169	CCD4P300TS64PYAP5	1952	460	345.0	95.4	1.15	39.50	C, US
	1800	447T	LM80169	C/A	16,169	CCD4P300T6011PYAP5	1952	400	397.0	95.4	1.15	43.25	C, US
	1800	447T	LM80170	✓	16,169	CCD4P300T64PYAP5	1952	460	345.0	95.4	1.15	43.25	C, US
350	3600	447TS	LM80171	C/A	16,031	CCD2P350TS6011PYAP5	2068	400	443.0	95.0	1.15	39.50	C, US
	3600	447TS	LM80172	✓	16,031	CCD2P350TS64PYAP5	2068	460	385.0	95.0	1.15	39.50	C, US
	1800	447TS	LM80173	C/A	16,131	CCD4P350TS6011PYAP5	1950	400	466.0	95.4	1.15	39.50	C, US
	1800	447TS	LM80174	C/A	16,131	CCD4P350TS64PYAP5	1950	460	405.0	95.4	1.15	39.50	C, US
	1800	447T	LM80175	C/A	16,131	CCD4P350T6011PYAP5	1950	400	466.0	95.4	1.15	43.25	C, US
	1800	447T	LM80176	✓	16,131	CCD4P350T64PYAP5	1950	460	405.0	95.4	1.15	43.25	C, US
400	3600	447TS	LM80177	✓	18,510	CCD2P400TS64PYAP5	2150	460	435.0	95.4	1.15	39.50	C, US
	1800	447TS	LM80178	✓	18,051	CCD4P400TS64PYAP5	2214	460	450.0	95.4	1.15	39.50	C, US
450	3600	449TS	LM80179	✓	23,930	CCD2P450TS64PYAP5	2544	460	495.0	95.8	1.15	44.50	C, US
	1800	449TS	LM80180	✓	23,949	CCD4P450TS64PYAP5	2675	460	505.0	95.8	1.15	44.50	C, US
500	3600	449TS	LM80181	✓	25,604	CCD2P500TS64PYAP5	2544	460	546.0	95.8	1.15	44.50	C, US
	1800	449TS	LM80182	✓	26,144	CCD4P500TS64PYAP5	2695	460	560.0	95.8	1.15	44.50	C, US

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* Full Load Amps at 400 or 460 Volts

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Features:

- 3 to 450 horsepower
- 3600 & 1800 RPM's
- EPA efficiency
- Ball bearings
- NEMA design B, code G
- 230/460 and 460 volt motors rated for 50HZ at next lower HP, with 1.15 S.F. on nameplate
- Dual voltage motors – 12 leads suitable for Y-Delta, low voltage PWS, and across the line start
- Single voltage motors – 12 leads suitable for Y-Delta, PWS, and across the line start
- C-Face kits available through 250HP
- For special designs contact district sales office near you
- Exterior red paint
- UL listed and CSA certified (UL1004A) and CE marked

Three Phase - TEFC - Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	* F. L. Amps	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥ Notes
3	3600	182T	LM80050	C/A	932	CCF2P3T62AP5	84	200/400	8.5	86.5	1.15	15.87	C, US
	3600	182T	LM80051	C/A	932	CCF2P3T61AP5	84	230/460	7.4	86.5	1.15	15.87	C, US
	1800	182T	LM80052	C/A	1,012	CCF4P3T62AP5	90	200/400	9.9	87.5	1.15	15.87	C, US
	1800	182T	LM80053	C/A	1,012	CCF4P3T61AP5	90	230/460	8.6	87.5	1.15	15.87	C, US
5	3600	184T	LM80054	C/A	1,073	CCF2P5T62AP5	108	200/400	14.0	87.5	1.15	15.87	C, US
	3600	184T	LM80055	C/A	1,073	CCF2P5T61AP5	108	230/460	12.2	87.5	1.15	15.87	C, US
	1800	184T	LM80056	✓	1,106	CCF4P5T62AP5	123	200/400	15.0	87.5	1.15	15.87	C, US
	1800	184T	LM80057	✓	1,106	CCF4P5T61AP5	123	230/460	13.0	87.5	1.15	15.87	C, US
7.5	3600	213T	LM80058	C/A	1,497	CCF2P7.5T62AP5	188	200/400	21.9	88.5	1.15	18.20	C, US
	3600	213T	LM80059	C/A	1,497	CCF2P7.5T61AP5	188	230/460	19.0	88.5	1.15	18.20	C, US
	1800	213T	LM80060	C/A	1,472	CCF4P7.5T62AP5	194	200/400	23.0	89.5	1.15	18.20	C, US
	1800	213T	LM80061	C/A	1,472	CCF4P7.5T61AP5	194	230/460	20.0	89.5	1.15	—	C, US
10	3600	215T	LM80062	C/A	1,585	CCF2P10T62AP5	217	200/400	27.6	89.5	1.15	—	C, US
	3600	215T	LM80063	C/A	1,585	CCF2P10T61AP5	217	230/460	24.0	89.5	1.15	—	C, US
	1800	215T	LM80064	C/A	1,640	CCF4P10T62AP5	227	200/400	28.8	89.5	1.15	—	C, US
	1800	215T	LM80065	✓	1,640	CCF4P10T61AP5	227	230/460	25.0	89.5	1.15	—	C, US
15	3600	254T	LM80066	C/A	2,234	CCF2P15T62AP5	370	200/400	—	90.2	1.15	—	C, US
	3600	254T	LM80067	C/A	2,234	CCF2P15T61AP5	370	230/460	—	90.2	1.15	—	C, US
	1800	254T	LM80068	C/A	2,142	CCF4P15T62AP5	365	200/400	—	91.0	1.15	—	C, US
	1800	254T	LM80069	C/A	2,142	CCF4P15T61AP5	365	230/460	39.0	91.0	1.15	23.52	C, US
20	3600	256T	LM80070	C/A	2,699	CCF2P20T62AP5	334	200/400	—	90.2	1.15	—	C, US
	3600	256T	LM80071	C/A	2,699	CCF2P20T61AP5	334	230/460	—	90.2	1.15	—	C, US
	1800	256T	LM80072	C/A	2,299	CCF4P20T62AP5	420	200/400	57.5	91.0	1.15	25.27	C, US
	1800	256T	LM80073	C/A	2,299	CCF4P20T61AP5	420	230/460	50.0	91.0	1.15	12.00	C, US
25	3600	284TS	LM80074	C/A	3,492	CCF2P25TS62YAP5	384	200/400	—	91.0	1.15	—	C, US
	3600	284TS	LM80075	C/A	3,492	CCF2P25TS61YAP5	384	230/460	59.0	91.0	1.15	24.89	C, US
	1800	284T	LM80076	C/A	2,791	CCF4P25T62YAP5	440	200/400	—	92.4	1.15	—	C, US
	1800	284T	LM80077	C/A	2,791	CCF4P25T61YAP5	440	230/460	61.0	92.4	1.15	26.27	C, US

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♥ Note listing on inside back flap

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Explosion Proof Motors

Automotive Duty Motors

Pump Motors

Washguard Motors

Agricultural Motors

HVAC / Fan Motors

Special Voltage Motors

Definite Purpose Motors

Brake Motors

Pump Motors

Lincoln Fire Pump Motors - TEFC - Rigid Base

Three Phase - TEFC - Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	* F. L. Amps	% F. L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
30	3600	286TS	LM80078	C/A	4,145	CCF2P30TS62YAP5	428	200/400	—	91.0	1.15	—	C, US
	3600	286TS	LM80079	C/A	4,145	CCF2P30TS61YAP5	428	230/460	70.0	91.0	1.15	26.43	C, US
	1800	286T	LM80080	C/A	3,337	CCF4P30T62YAP5	494	200/400	—	92.4	1.15	—	C, US
	1800	286T	LM80081	C/A	3,337	CCF4P30T61YAP5	494	230/460	72.0	92.4	1.15	27.84	C, US
40	3600	324TS	LM80084	C/A	5,803	CCF2P40TS62YAP5	520	200/400	—	91.7	1.15	—	C, US
	3600	324TS	LM80085	✓	5,803	CCF2P40TS61YAP5	520	230/460	92.0	91.7	1.15	27.47	C, US
	1800	324TS	LM80183	C/A	4,887	CCF4P40TS62YAP5	575	200/400	—	93.0	1.15	—	C, US
	1800	324TS	LM80184	C/A	4,887	CCF4P40TS61YAP5	575	230/460	100.0	93.0	1.15	27.47	C, US
40	1800	324T	LM80027	C/A	4,887	CCF4P40T62YAP5	575	200/400	—	93.0	1.15	—	C, US
	1800	324T	LM80086	✓	4,887	CCF4P40T61YAP5	575	230/460	100.0	93.0	1.15	28.97	C, US
50	3600	326TS	LM80028	C/A	6,775	CCF2P50TS62YAP5	540	200/400	—	93.0	1.15	—	C, US
	3600	326TS	LM80087	✓	6,775	CCF2P50TS61YAP5	540	230/460	112.0	93.0	1.15	28.97	C, US
	1800	326TS	LM80186	C/A	5,488	CCF4P50TS62YAP5	675	200/400	—	93.6	1.15	—	C, US
	1800	326TS	LM80187	C/A	5,488	CCF4P50TS61YAP5	675	230/460	122.0	93.6	1.15	28.87	C, US
50	1800	326T	LM80029	C/A	5,488	CCF4P50T62YAP5	675	200/400	140.0	93.6	1.15	30.37	C, US
	1800	326T	LM80088	✓	5,488	CCF4P50T61YAP5	675	230/460	122.0	93.6	1.15	31.87	C, US
60	3600	364TS	LM80030	C/A	8,165	CCF2P60TS62YAP5	875	200/400	—	93.0	1.15	—	C, US
	3600	364TS	LM80089	✓	8,165	CCF2P60TS61YAP5	875	230/460	138.0	93.0	1.15	29.38	C, US
	1800	364TS	LM80188	C/A	7,566	CCF4P60TS62YAP5	975	200/400	—	93.6	1.15	—	C, US
	1800	364TS	LM80185	C/A	7,566	CCF4P60TS61YAP5	975	230/460	142.0	93.6	1.15	29.38	C, US
60	1800	364T	LM80031	C/A	7,566	CCF4P60T62YAP5	975	200/400	—	93.6	1.15	—	C, US
	1800	364T	LM80090	✓	7,566	CCF4P60T61YAP5	975	230/460	142.0	93.6	1.15	31.50	C, US
75	3600	365TS	LM80032	C/A	9,723	CCF2P75TS62YAP5	1000	200/400	—	93.6	1.15	—	C, US
	3600	365TS	LM80091	✓	9,723	CCF2P75TS61YAP5	1000	230/460	172.0	93.6	1.15	30.38	C, US
	1800	365TS	LM80189	C/A	9,542	CCF4P75TS62YAP5	1025	200/400	—	94.1	1.15	—	C, US
	1800	365TS	LM80190	C/A	9,542	CCF4P75TS61YAP5	1025	230/460	176.0	94.1	1.15	30.38	C, US
75	1800	365T	LM80033	C/A	9,542	CCF4P75T62YAP5	1025	200/400	—	94.1	1.15	—	C, US
	1800	365T	LM80092	✓	9,542	CCF4P75T61YAP5	1025	230/460	176.0	94.1	1.15	32.50	C, US
100	3600	405TS	LM80034	C/A	13,303	CCF2P100TS62YAP5	1239	200/400	—	94.1	1.15	—	C, US
	3600	405TS	LM80093	✓	13,303	CCF2P100TS61YAP5	1239	230/460	224.0	94.1	1.15	34.12	C, US
	1800	405TS	LM80191	C/A	11,530	CCF4P100TS62YAP5	1267	200/400	172.0	94.5	1.15	30.38	C, US
	1800	405TS	LM80192	C/A	11,530	CCF4P100TS61YAP5	1267	230/460	224.0	94.5	1.15	32.62	C, US
100	1800	405T	LM80035	C/A	11,530	CCF4P100T62YAP5	1267	200/400	—	94.5	1.15	—	C, US
	1800	405T	LM80094	✓	11,530	CCF4P100T61YAP5	1267	230/460	224.0	94.5	1.15	37.12	C, US
125	3600	444TS	LM80036	C/A	16,202	CCF2P125TS6011PYAP5	1750	400	—	94.5	1.15	—	C, US
	3600	444TS	LM80095	✓	16,202	CCF2P125TS64PYAP5	1750	460	—	94.5	1.15	—	C, US
	1800	444TS	LM80193	C/A	15,410	CCF4P125TS6011PYAP5	1805	400	167.0	94.5	1.15	39.60	C, US
	1800	444TS	LM80194	C/A	15,410	CCF4P125TS64PYAP5	1805	460	142.0	94.5	1.15	37.60	C, US
125	1800	444T	LM80037	C/A	15,410	CCF4P125T6011PYAP5	1805	400	167.0	94.5	1.15	43.35	C, US
	1800	444T	LM80096	✓	15,410	CCF4P125T64PYAP5	1805	460	145.0	94.5	1.15	43.35	C, US

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♥ Note listing on inside back flap

* Full load Amps at lowest listed voltage

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Three Phase - TEFC - Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	* F. L. Amps	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
150	1800	445TS	LM80195	C/A	17,874	CCF4P150TS6011PYAP5	2116	400	—	95.0	1.15	—	C, US
	1800	445TS	LM80196	C/A	17,874	CCF4P150TS64PYAP5	2116	460	170.0	95.0	1.15	39.60	C, US
	1800	445T	LM80039	C/A	17,874	CCF4P150T6011PYAP5	2116	400	—	95.0	1.15	—	C, US
	1800	445T	LM80098	✓	17,874	CCF4P150T64PYAP5	2116	460	170.0	95.0	1.15	43.35	C, US
200	1800	445TS	LM80197	C/A	22,105	CCF4P200TS6011PYAP5	2311	400	—	95.4	1.15	—	C, US
	1800	445TS	LM80198	C/A	22,105	CCF4P200TS64PYAP5	2311	460	—	95.4	1.15	—	C, US
	1800	445T	LM80041	C/A	22,105	CCF4P200T6011PYAP5	2311	400	—	95.4	1.15	—	C, US
	1800	445T	LM80100	✓	22,105	CCF4P200T64PYAP5	2311	460	224.0	95.4	1.15	43.35	C, US
250	1800	449TS	LM80199	C/A	26,385	CC449F4P250TS6011PYAP5	2600	400	—	93.0	1.15	—	C, US
	1800	449TS	LM80200	C/A	26,385	CC449F4P250TS64PYAP5	2600	460	326.0	93.0	1.15	48.09	C, US
	1800	449T	LM80043	C/A	26,385	CC449F4P250T6011PYAP5	2600	400	—	95.4	1.15	—	C, US
	1800	449T	LM80102	✓	26,385	CC449F4P250T64PYAP5	2600	460	290.0	95.4	1.15	51.85	C, US
300	1800	449TS	LM80201	C/A	27,586	CCF4P300TS6011PYAP5	3041	400	374.0	93.0	1.15	48.09	C, US
	1800	449TS	LM80202	C/A	27,586	CCF4P300TS64PYAP5	3041	460	335.0	93.0	1.15	48.09	C, US
	1800	449T	LM80045	C/A	27,586	CCF4P300T6011PYAP5	3041	400	385.0	95.4	1.15	51.86	C, US
	1800	449T	LM80018	✓	27,586	CCF4P300T64PYAP5	3041	460	335.0	95.4	1.15	51.86	C, US
350	1800	449TS	LM80203	C/A	28,570	CCF4P350TS6011PYAP5	3202	400	—	93.0	1.15	—	C, US
	1800	449TS	LM80204	C/A	28,570	CCF4P350TS64PYAP5	3202	460	400.0	93.0	1.15	48.09	C, US
	1800	449T	LM80047	C/A	28,570	CCF4P350T6011PYAP5	3202	400	—	95.4	1.15	—	C, US
	1800	449T	LM80020	✓	28,570	CCF4P350T64PYAP5	3202	460	400.0	95.4	1.15	51.88	C, US
400	1800	5011L	LM80049	C/A	59,269	CC5011F4P400L6011PYAP5	5500	400	—	95.8	1.15	—	C, US
	1800	449T	LM80022	✓	59,269	CC5011F4P400L64PYAP5	5500	460	448.0	95.8	1.15	51.85	C, US
450	1800	5011L	LM80082	C/A	60,928	CC5011F4P450L6011PYAP5	5500	400	—	95.8	1.15	—	C, US
	1800	5011L	LM80083	✓	60,928	CC5011F4P450L64PYAP5	5500	460	495.0	95.8	1.15	70.94	C, US

▼ LM Numbers are Lincoln Models

♥ Note listing on inside back flap

* Full load Amps at 400 or 460 Volts

C/A - Check Availability

Specifications are subject to change without notice

View On-line Technical Information



Explosion Proof Motors

Automotive Duty Motors

Pump Motors

Washguard Motors

Agricultural Motors

HVAC / Fan Motors

Special Voltage Motors

Definite Purpose Motors

Brake Motors

Hydraulic SAE Pump Motors



Specifications:

- Rolled steel and cast iron construction
- Rigid base construction
- 230/460 Volt
- IRIST™ Inverter insulation system
- 575 Volt ratings available - contact your local sales office
- Higher HP SAE Pump motors available - contact your local sales office

Three Phase - TEFC - SAE Flange - Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	Flange Type	Voltage	* F. L. Amps	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
1/2	3600	56YZ	117813.00	C/A	441	C6T34FZ47	2-Bolt SAE AA	208-230/460	2.0	72.0	1.15	8.67	S, US
	3600	56YZ	117925.00	C/A	441	C6T34FZ48	4-Bolt SAE AA	208-230/460	2.0	72.0	1.15	8.67	S, US
	3600	56YZ	117926.00	C/A	441	C6T34FZ49	2-Bolt SAE A	208-230/460	2.0	72.0	1.15	8.50	S, US
	3600	56YZ	117927.00	C/A	441	C6T34FZ50	2-Bolt SAE B	208-230/460	2.0	72.0	1.15	8.93	S, US
	1800	56YZ	117814.00	C/A	383	C6T17FZ97	2-Bolt SAE AA	208-230/460	2.0	74.0	1.15	8.67	S, US
	1800	56YZ	117928.00	C/A	383	C6T17FZ100	4-Bolt SAE AA	208-230/460	2.0	74.0	1.15	8.67	S, US
	1800	56YZ	117929.00	C/A	383	C6T17FZ101	2-Bolt SAE A	208-230/460	2.0	74.0	1.15	8.50	S, US
	1800	56YZ	117930.00	C/A	383	C6T17FZ102	2-Bolt SAE B	208-230/460	2.0	74.0	1.15	8.93	S, US
3/4	3600	56YZ	117815.00	C/A	534	C6T34FZ51	2-Bolt SAE AA	208-230/460	2.4	75.5	1.15	8.67	S, US
	3600	56YZ	117931.00	C/A	534	C6T34FZ55	4-Bolt SAE AA	208-230/460	2.4	75.5	1.15	8.67	S, US
	3600	56YZ	117932.00	C/A	534	C6T34FZ56	2-Bolt SAE A	208-230/460	2.4	75.5	1.15	8.50	S, US
	3600	56YZ	117933.00	C/A	534	C6T34FZ57	2-Bolt SAE B	208-230/460	2.4	75.5	1.15	8.93	S, US
	1800	56YZ	117816.00	C/A	502	C6T17FZ98	2-Bolt SAE AA	208-230/460	2.8	77.0	1.15	9.17	S, US
	1800	56YZ	117934.00	C/A	502	C6T17FZ104	4-Bolt SAE AA	208-230/460	2.8	77.0	1.15	9.17	S, US
	1800	56YZ	117935.00	C/A	502	C6T17FZ105	2-Bolt SAE A	208-230/460	2.8	77.0	1.15	9.00	S, US
	1800	56YZ	117936.00	C/A	502	C6T17FZ106	2-Bolt SAE B	208-230/460	2.8	77.0	1.15	9.43	S, US
1	3600	56YZ	117817.00	C/A	527	C6T34FZ52	2-Bolt SAE AA	208-230/460	3.2	77.0	1.15	8.67	S, US
	3600	56YZ	117937.00	C/A	527	C6T34FZ58	4-Bolt SAE AA	208-230/460	3.2	77.0	1.15	8.67	S, US
	3600	56YZ	117938.00	C/A	527	C6T34FZ59	2-Bolt SAE A	208-230/460	3.2	77.0	1.15	9.00	S, US
	3600	56YZ	117939.00	C/A	527	C6T34FZ60	2-Bolt SAE B	208-230/460	3.2	77.0	1.15	9.93	S, US
	1800	56YZ	117818.00	C/A	527	C6T17FZ99	2-Bolt SAE AA	208-230/460	3.8	77.0	1.15	9.17	S, US
	1800	56YZ	117940.00	C/A	527	C6T17FZ108	4-Bolt SAE AA	208-230/460	3.8	77.0	1.15	9.17	S, US
	1800	56YZ	117941.00	C/A	527	C6T17FZ109	2-Bolt SAE A	208-230/460	3.8	77.0	1.15	9.00	S, US
	1800	56YZ	117942.00	C/A	527	C6T17FZ110	2-Bolt SAE B	208-230/460	3.8	77.0	1.15	9.43	S, US
	1800	143YZ	122035.00	C/A	704	C143T17FZ2	2-Bolt SAE AA	208-230/460	3.8	77.0	1.15	10.67	S, US
	1800	143YZ	122036.00	C/A	704	C143T17FZ3	4-Bolt SAE AA	208-230/460	3.8	77.0	1.15	10.67	S, US
	1800	143YZ	122037.00	C/A	704	C143T17FZ4	2-Bolt SAE A	208-230/460	3.8	77.0	1.15	10.50	S, US
	1800	143YZ	122038.00	C/A	704	C143T17FZ5	2-Bolt SAE B	208-230/460	3.8	77.0	1.15	10.93	S, US

Note - 254T frame and larger - 2 & 4 bolt B flange has a 13 teeth internal spline

♥ Note listing on inside back flap

Note - 254T frame and larger - 2 & 4 bolt B flange has a 15 teeth internal spline

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Specifications are subject to change without notice



View On-line Technical Information



Three Phase - TEFC - SAE Flange - Rigid Base

	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	Flange Type	Voltage	* F. L. Amps	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes	
1 1/2	3600	56YZ	117819.00	C/A	564	C6T34FZ53	2-Bolt SAE AA	208-230/460	4.2	81.5	1.15	9.67	S, US	
	3600	56YZ	117943.00	C/A	564	C6T34FZ61	4-Bolt SAE AA	208-230/460	4.2	81.5	1.15	9.67	S, US	
	3600	56YZ	117944.00	C/A	564	C6T34FZ62	2-Bolt SAE A	208-230/460	4.2	81.5	1.15	10.00	S, US	
	3600	56YZ	117945.00	C/A	564	C6T34FZ63	2-Bolt SAE B	208-230/460	4.2	81.5	1.15	10.43	S, US	
	3600	143YZ	122039.00	C/A	655	C143T34FZ1	2-Bolt SAE AA	208-230/460	4.2	81.5	1.15	10.67	S, US	
	3600	143YZ	122040.00	C/A	655	C143T34FZ2	4-Bolt SAE AA	208-230/460	4.2	81.5	1.15	10.67	S, US	
	3600	143YZ	122041.00	C/A	655	C143T34FZ3	2-Bolt SAE A	208-230/460	4.2	81.5	1.15	10.50	S, US	
	3600	143YZ	122042.00	C/A	655	C143T34FZ4	2-Bolt SAE B	208-230/460	4.8	81.5	1.15	10.93	S, US	
	1800	56YZ	117820.00	C/A	579	C6T17FZ103	2-Bolt SAE AA	208-230/460	5.0	78.5	1.15	10.17	S, US	
	1800	56YZ	117946.00	C/A	579	C6T17FZ111	4-Bolt SAE AA	208-230/460	5.0	78.5	1.15	10.17	S, US	
	1800	56YZ	117947.00	C/A	579	C6T17FZ112	2-Bolt SAE A	208-230/460	5.0	78.5	1.15	10.00	S, US	
	1800	56YZ	117948.00	C/A	579	C6T17FZ113	2-Bolt SAE B	208-230/460	5.0	78.5	1.15	10.43	S, US	
	1800	145YZ	122043.00	C/A	745	C145T17FZ18	2-Bolt SAE AA	208-230/460	5.0	78.5	1.15	10.67	S, US	
	1800	145YZ	122044.00	C/A	745	C145T17FZ19	4-Bolt SAE AA	208-230/460	5.0	78.5	1.15	10.67	S, US	
	1800	145YZ	122045.00	C/A	745	C145T17FZ20	2-Bolt SAE A	208-230/460	5.0	78.5	1.15	10.50	S, US	
	1800	145YZ	122046.00	C/A	745	C145T17FZ21	2-Bolt SAE B	208-230/460	5.0	78.5	1.15	10.93	S, US	
2	3600	56YZ	117821.00	C/A	584	C6T34FZ54	2-Bolt SAE AA	208-230/460	5.6	82.5	1.15	10.17	S, US	
	3600	56YZ	117949.00	C/A	584	C6T34FZ64	4-Bolt SAE AA	208-230/460	5.6	82.5	1.15	10.17	S, US	
	3600	56YZ	117950.00	C/A	584	C6T34FZ65	2-Bolt SAE A	208-230/460	5.6	82.5	1.15	10.50	S, US	
	3600	56YZ	117951.00	C/A	584	C6T34FZ66	2-Bolt SAE B	208-230/460	5.6	82.5	1.15	9.93	S, US	
	1800	56YZ	117822.00	C/A	593	C6T17FZ107	2-Bolt SAE AA	208-230/460	6.2	81.5	1.15	10.67	S, US	
	1800	56YZ	117952.00	C/A	593	C6T17FZ114	4-Bolt SAE AA	208-230/460	6.2	81.5	1.15	10.67	S, US	
	1800	56YZ	117953.00	C/A	593	C6T17FZ115	2-Bolt SAE A	208-230/460	6.2	81.5	1.15	10.50	S, US	
	1800	56YZ	117954.00	C/A	593	C6T17FZ116	2-Bolt SAE B	208-230/460	6.2	81.5	1.15	11.43	S, US	
	1800	145YZ	122047.00	C/A	793	C145T17FZ22	2-Bolt SAE AA	208-230/460	6.2	81.5	1.15	10.67	S, US	
	1800	145YZ	122048.00	C/A	793	C145T17FZ23	4-Bolt SAE AA	208-230/460	6.2	81.5	1.15	10.67	S, US	
	1800	145YZ	122049.00	C/A	793	C145T17FZ24	2-Bolt SAE A	208-230/460	6.2	81.5	1.15	11.00	S, US	
	1800	145YZ	122050.00	C/A	793	C145T17FZ25	2-Bolt SAE B	208-230/460	6.2	81.5	1.15	11.43	S, US	
	3	3600	182TYZ	132345.00	C/A	1,084	C182T34FZ7A	2-Bolt SAE AA	208-230/460	7.8	86.5	1.15	12.04	S, MX
		3600	182TYZ	132356.00	C/A	1,084	C182T34FZ8A	2-Bolt SAE A	208-230/460	7.8	86.5	1.15	11.96	S, MX
		3600	182TYZ	132357.00	C/A	1,084	C182T34FZ9A	2-Bolt SAE B	208-230/460	7.8	86.5	1.15	12.21	S, MX
		1800	182TYZ	132346.00	C/A	1,059	C182T17FZ17A	2-Bolt SAE AA	208-230/460	8.6	87.5	1.15	12.04	S, MX
1800		182TYZ	132359.00	C/A	1,059	C182T17FZ18A	2-Bolt SAE A	208-230/460	8.6	87.5	1.15	11.96	S, MX	
1800		182TYZ	132360.00	C/A	1,059	C182T17FZ19A	2-Bolt SAE B	208-230/460	8.6	87.5	1.15	12.21	S, MX	
5	3600	184TYZ	132347.00	C/A	1,198	C184T34FZ4A	2-Bolt SAE AA	208-230/460	12.0	87.5	1.15	12.04	S, MX	
	3600	184TYZ	132362.00	C/A	1,198	C184T34FZ5A	2-Bolt SAE A	208-230/460	12.0	87.5	1.15	11.96	S, MX	
	3600	184TYZ	132363.00	C/A	1,198	C184T34FZ6A	2-Bolt SAE B	208-230/460	12.0	87.5	1.15	12.21	S, MX	
	1800	184TYZ	132348.00	C/A	1,131	C184T17FZ35A	2-Bolt SAE AA	208-230/460	13.0	87.5	1.15	12.04	S, MX	
	1800	184TYZ	132365.00	C/A	1,131	C184T17FZ31	2-Bolt SAE A	208-230/460	13.0	87.5	1.15	11.96	S, MX	
	1800	184TYZ	132366.00	C/A	1,131	C184T17FZ36A	2-Bolt SAE B	208-230/460	13.0	87.5	1.15	12.21	S, MX	
7 1/2	3600	213TYZ	141156.00	C/A	2,154	C213T34FZ1A	2-Bolt SAE AA	208-230/460	18.4	88.5	1.15	17.22	S, MX	
	3600	213TYZ	141170.00	C/A	2,154	C213T34FZ2A	2-Bolt SAE A	208-230/460	18.4	88.5	1.15	17.05	S, MX	
	3600	213TYZ	141171.00	C/A	2,154	C213T34FZ3A	2-Bolt SAE B	208-230/460	18.4	88.5	1.15	17.18	S, MX	
	1800	213TYZ	141157.00	C/A	2,088	C213T17FZ1A	2-Bolt SAE AA	208-230/460	20.0	89.5	1.15	17.22	S, MX	
	1800	213TYZ	141173.00	C/A	2,088	C213T17FZ2A	2-Bolt SAE A	208-230/460	20.0	89.5	1.15	17.05	S, MX	
	1800	213TYZ	141174.00	C/A	2,088	C213T17FZ3A	2-Bolt SAE B	208-230/460	20.0	89.5	1.15	17.18	S, MX	

Note - 254T frame and larger - 2 & 4 bolt B flange has a 13 teeth internal spline

Note - 254T frame and larger - 2 & 4 bolt B flange has a 15 teeth internal spline

Specifications are subject to change without notice

♥ Note listing on inside back flap

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View On-line Technical Information



Explosion Proof Motors

Automotive Duty Motors

Pump Motors

Washguard Motors

Agricultural Motors

HVAC / Fan Motors

Special Voltage Motors

Definite Purpose Motors

Brake Motors

Hydraulic SAE Pump Motors

Three Phase - TEFC - SAE Flange - Rigid Base

	HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	Flange Type	Voltage	* F. L. Amps	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
Explosion Proof Motors	10	3600	215TYZ	141158.00	C/A	2,421	C215T34FZ1A	2-Bolt SAE AA	208-230/460	24.0	89.5	1.15	17.22	S, MX
		3600	215TYZ	141176.00	C/A	2,421	C215T34FZ2A	2-Bolt SAE A	208-230/460	24.0	89.5	1.15	17.05	S, MX
		3600	215TYZ	141177.00	C/A	2,421	C215T34FZ3A	2-Bolt SAE B	208-230/460	24.0	89.5	1.15	17.18	S, MX
		1800	215TYZ	141159.00	C/A	2,183	C215T17FZ5A	2-Bolt SAE AA	208-230/460	26.0	89.5	1.15	17.22	S, MX
		1800	215TYZ	141179.00	C/A	2,183	C215T17FZ6A	2-Bolt SAE A	208-230/460	26.0	89.5	1.15	17.05	S, MX
		1800	215TYZ	141180.00	C/A	2,183	C215T17FZ7A	2-Bolt SAE B	208-230/460	26.0	89.5	1.15	17.18	S, MX
Automotive Duty Motors	15	3600	254TYZ	850788.00	C/A	4,627	254TTFNA17007	2-Bolt SAE A	230/460	35.5	89.5	1.15	23.66	C, US
		3600	254TYZ	850820.00	C/A	4,567	-	2 & 4 Bolt SAE B	230/460	-	-	-	-	C, US
		3600	254TYZ	850821.00	C/A	4,473	-	2 & 4 Bolt SAE BB	230/460	-	-	-	-	C, US
		3600	254TYZ	850822.00	C/A	4,627	-	2 & 4 Bolt SAE C	230/460	-	-	-	-	C, US
		1800	254TYZ	850789.00	C/A	3,555	-	2-Bolt SAE A	230/460	-	-	-	-	C, US
		1800	254TYZ	850823.00	C/A	3,555	-	2 & 4 Bolt SAE B	230/460	-	-	-	-	C, US
		1800	254TYZ	850824.00	C/A	3,555	-	2 & 4 Bolt SAE BB	230/460	-	-	-	-	C, US
		1800	254TYZ	850825.00	C/A	3,555	-	2 & 4 Bolt SAE C	230/460	-	-	-	-	C, US
Pump Motors	20	3600	256TYZ	850790.00	C/A	5,021	-	2-Bolt SAE A	230/460	-	-	-	-	C, US
		3600	256TYZ	850826.00	C/A	4,962	-	2 & 4 Bolt SAE B	230/460	-	-	-	-	C, US
		3600	256TYZ	850827.00	C/A	4,868	-	2 & 4 Bolt SAE BB	230/460	-	-	-	-	C, US
		3600	256TYZ	850828.00	C/A	5,021	-	2 & 4 Bolt SAE C	230/460	-	-	-	-	C, US
		1800	256TYZ	850791.00	C/A	4,039	256TTFNA18540	2-Bolt SAE A	230/460	50.0	90.2	1.15	25.44	C, US
		1800	256TYZ	850829.00	C/A	4,039	256TTFNA17052	2 & 4 Bolt SAE B	230/460	50.0	90.2	1.15	25.44	C, US
		1800	256TYZ	850830.00	C/A	4,039	-	2 & 4 Bolt SAE BB	230/460	-	-	-	-	C, US
		1800	256TYZ	850831.00	C/A	4,039	-	2 & 4 Bolt SAE C	230/460	-	-	-	-	C, US
Washguard Motors	25	3600	284TYZ	850792.00	C/A	5,157	-	2-Bolt SAE A	230/460	-	-	-	-	C, US
		3600	284TYZ	850832.00	C/A	5,097	-	2 & 4 Bolt SAE B	230/460	-	-	-	-	C, US
		3600	284TYZ	850833.00	C/A	4,895	-	2 & 4 Bolt SAE BB	230/460	-	-	-	-	C, US
		3600	284TYZ	850834.00	C/A	5,157	-	2 & 4 Bolt SAE C	230/460	-	-	-	-	C, US
		1800	284TYZ	850793.00	C/A	4,578	-	2-Bolt SAE A	230/460	-	-	-	-	C, US
		1800	284TYZ	850835.00	C/A	4,578	-	2 & 4 Bolt SAE B	230/460	-	-	-	-	C, US
		1800	284TYZ	850836.00	C/A	4,578	-	2 & 4 Bolt SAE BB	230/460	-	-	-	-	C, US
		1800	284TYZ	850837.00	C/A	4,578	-	2 & 4 Bolt SAE C	230/460	-	-	-	-	C, US
Agricultural Duty Motors	30	3600	286TYZ	850794.00	C/A	5,767	-	2-Bolt SAE A	230/460	-	-	-	-	C, US
		3600	286TYZ	850838.00	C/A	5,708	-	2 & 4 Bolt SAE B	230/460	-	-	-	-	C, US
		3600	286TYZ	850839.00	C/A	5,614	-	2 & 4 Bolt SAE BB	230/460	-	-	-	-	C, US
		3600	286TYZ	850840.00	C/A	5,767	-	2 & 4 Bolt SAE C	230/460	-	-	-	-	C, US
		1800	286TYZ	850795.00	C/A	4,848	-	2-Bolt SAE A	230/460	-	-	-	-	C, US
		1800	286TYZ	850841.00	C/A	4,848	-	2 & 4 Bolt SAE B	230/460	-	-	-	-	C, US
		1800	286TYZ	850842.00	C/A	4,848	-	2 & 4 Bolt SAE BB	230/460	-	-	-	-	C, US
		1800	286TYZ	850843.00	C/A	4,848	-	2 & 4 Bolt SAE C	230/460	-	-	-	-	C, US
HVAC / Fan Motors	Special Voltage Motors													

Note - 254T frame and larger - 2 & 4 bolt B flange has a 13 teeth internal spline

Note - 254T frame and larger - 2 & 4 bolt B flange has a 15 teeth internal spline

Specifications are subject to change without notice

♥ Note listing on inside back flap

Continued On Next Page



View On-line Technical Information



Three Phase - TEFC - SAE Flange - Rigid Base

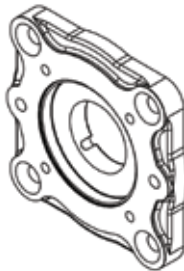
HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	Flange Type	Voltage	* F. L. Amps	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥ Notes
40	3600	324TYZ	850796.00	C/A	6,445	-	2-Bolt SAE A	230/460	-	-	-	-	C, US
	3600	324TYZ	850844.00	C/A	6,385	-	2 & 4 Bolt SAE B	230/460	-	-	-	-	C, US
	3600	324TYZ	850845.00	C/A	6,291	-	2 & 4 Bolt SAE BB	230/460	-	-	-	-	C, US
	3600	324TYZ	850846.00	C/A	6,445	-	2 & 4 Bolt SAE C	230/460	-	-	-	-	C, US
	1800	324TYZ	850797.00	C/A	5,036	-	2-Bolt SAE A	230/460	-	-	-	-	C, US
	1800	324TYZ	850847.00	C/A	5,036	-	2 & 4 Bolt SAE B	230/460	-	-	-	-	C, US
	1800	324TYZ	850848.00	C/A	5,036	-	2 & 4 Bolt SAE BB	230/460	-	-	-	-	C, US
	1800	324TYZ	850849.00	C/A	5,036	-	2 & 4 Bolt SAE C	230/460	-	-	-	-	C, US
50	3600	326TYZ	850798.00	C/A	6,747	-	2-Bolt SAE A	230/460	-	-	-	-	C, US
	3600	326TYZ	850850.00	C/A	6,687	-	2 & 4 Bolt SAE B	230/460	-	-	-	-	C, US
	3600	326TYZ	850851.00	C/A	6,593	-	2 & 4 Bolt SAE BB	230/460	-	-	-	-	C, US
	3600	326TYZ	850852.00	C/A	6,747	-	2 & 4 Bolt SAE C	230/460	-	-	-	-	C, US
	1800	326TYZ	850799.00	C/A	6,149	-	2-Bolt SAE A	230/460	-	-	-	-	C, US
	1800	326TYZ	850853.00	C/A	6,149	-	2 & 4 Bolt SAE B	230/460	-	-	-	-	C, US
	1800	326TYZ	850854.00	C/A	6,149	-	2 & 4 Bolt SAE BB	230/460	-	-	-	-	C, US
	1800	326TYZ	850855.00	C/A	6,149	-	2 & 4 Bolt SAE C	230/460	-	-	-	-	C, US

Note - 254T frame and larger - 2 & 4 bolt B flange has a 13 teeth internal spline

Note - 254T frame and larger - 2 & 4 bolt B flange has a 15 teeth internal spline

Specifications are subject to change without notice

♥ Note listing on inside back flap



SAE Pump Pad Kits and Bushing Kits

Kit Catalog Number	254 - 449 Frame Kits	Lead Time (days)	List Price
174341.00	Kit - SAE (A)	30	384
174342.00	Kit - SAE (B)	30	327
174343.00	Kit - SAE (BB)	30	327
174344.00	Kit - SAE (C)	30	236
174345.00	Kit Bushing SAE (A)	30	146
174346.00	Kit Bushing SAE (B)	30	146
174347.00	Kit Bushing SAE (BB)	30	146
174348.00	Kit Bushing SAE (C)	30	146

View On-line Technical Information



Explosion Proof
Motors

Automotive
Duty Motors

Pump
Motors

Washguard
Motors

Agricultural
Motors

HVAC / Fan
Motors

Special Voltage
Motors

Definite
Purpose Motors

Brake Motors



Explosion Proof
Motors

Automotive
Duty Motors

Pump
Motors

Washguard®
Motors

Agricultural
Duty Motors

HVAC / Fan
Motors

Special Voltage
Motors

Definite
Purpose Motors

Brake Motors

- USDA-approved epoxy painted motors
- Stainless steel motors
- Encapsulated stainless steel motors available
- NEMA and IEC flange motors
- Three phase, single phase and DC washdown duty motors
- AC and DC washdown gearmotors
- Rigid base and C face mount types
- BISSC approved designs
- Double lip contact seals and v-ring seals used for shaft seals
- 3-year warranty on encapsulated and Premium efficient models
- Washdown brakemotors and pump motors available
- UL recognized and CSA certified

Applications:

Designed to meet the demanding washdown conditions that you may find in food processing plants, chemical processing, pharmaceutical plants and the beverage and brewing industries.





Premium StainlessDuck

Maximum service in critically clean or corrosive environments



- All exterior components of 300 series stainless steel
- Endshields o-ring sealed to frame
- IEEE 841 severe-duty features standard
- Meets IP56 enclosure protection
- AC, DC and IEC designs
- (SGRs) shaft grounding rings

SST StainlessDuck

Stainless Steel Tough for demanding washdown applications



- All exterior components of 300 series stainless steel, including motor frame, endshield and conduit box castings
- Moisture resistant sealant between frame and endbells
- Full-fact nameplate is laser-etched on the motor frame
- Four locations for T-drains provided on each endshield
- Meets IP55 enclosure protection

StainlessDuck

Superior, extended life in severe environments



- Paint-free exterior—stainless frame and conduit box lid, specially processed endshields and conduit box housing
- Etched stainless steel nameplate
- Meets IP55 enclosure protection
- Three phase motors are suitable for use on VFDs

WhiteDuck

Enhanced performance in wet, humid areas



- Our original moisture-shedding “duck” motor
- USDA-approved white epoxy finish
- Stainless steel shaft, conduit box cover, nameplate, fan guard
- Four endshield drains
- Meets IP55 enclosure protection

ExtremeDuck

Revolutionary Designed Stainless Steel Motors are built to be the last Stainless Steel Washdown motors you will ever need!



- Total winding encapsulation using an Epoxy Resin
- All exterior components are 300-Series stainless steel
- (SGRs) shaft grounding rings
- Protech Bearing isolator used for the output shaft seal
- Pre-lubricated double-sealed bearings
- Full fact nameplate is laser etched



Explosion Proof
Motors

Automotive
Duty Motors

Pump
Motors

Washguard®
Motors

Agricultural
Motors

HVAC / Fan
Motors

Special Voltage
Motors

Definite
Purpose Motors

Brake Motors



WASHGUARD® MOTORS ARE BUILT TO HANDLE HIGH-PRESSURE WASHDOWNS!*

Stainless-steel or white polypropylene fan guard on all WASHGUARD® frames.

Composite fan is chemically-inert and static-free. Fan is positively positioned on shaft on TEFC designs only.

Stainless-steel, "full-fact" nameplate includes information on motor efficiency and connections. Readable even after repeated washdowns.

USDA-approved, white epoxy finish for superior protection and resistance to caustic cleaning solutions.

Encapsulated starting switch (single-phase WASHGUARD® motors) uses a patented, field-proven design that is immune to moisture, shock and vibration. No moving parts or exposed contacts to become corroded or inoperable.

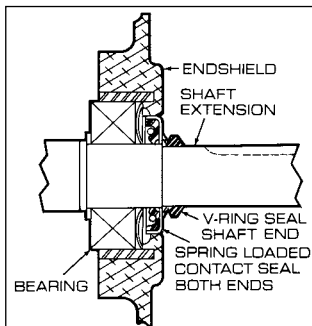
Moisture-resistant shaft system includes 303 stainless-steel shaft and lubricated, spring-loaded contact seals in each endshield. Patented V-ring Forsheda seal on shaft end to deflect water (see inset). Double-sealed, oversized bearings lubricated with Exxon POLYREX® EM high temperature, moisture-resistant lubricant. Bearing cavities packed to further retard entrance of moisture.

WASHGUARD® White Epoxy Model Shown

Cast, oversized conduit box with tough, high-temperature nitrile gaskets and stainless-steel cover and hardware. Oversized design with threaded entrance. All machined fits are sealed and nylon gaskets are used under bolt heads.

Interior coatings protect against moisture and corrosion. Frame, base, endshields, rotor, and interior components are protected by enamel and polyester compounds of outstanding adhesion and resistance to moisture, acids, alkalies, and oils. High temperature, moisture resistant IRIS insulation system assures long life on inverter service. Windings are immersed and cured in polyester insulating compound.

Four condensate drains in each endshield (at three, six, nine, and twelve o'clock) purge condensate and water which may enter the motor.



Contact seal and V-ring seal retard water from high pressure washdown.

** Also excellent for applications requiring a motor that is "tropicalized"!*



Washguard® Motors

Single Phase - White Epoxy Painted

Single Phase - TEFC - Rigid Base - Featuring Electronic Solid State Encapsulated Switch

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥ Notes
1/2	1800	56	112431.00	✓	653	C6C17WB1	24	115/208-230	4.4	1.15	10.81	S, US
3/4	1800	56	112432.00	✓	768	C6C17WB2	31	115/208-230	5.4	1.15	11.31	S, US
1	1800	56	112626.00	✓	880	C6C17WB3	33	115/208-230	6.4	1.15	11.81	S, US
	1800	143T	120589.00	✓	880	N143C17WB1	34	115/208-230	6.4	1.15	12.25	S, US
1 1/2	1800	145T	120590.00	✓	1,121	C145C17WB1	47	115/208-230	9.5	1.15	13.75	S, US
2	1800	182T	131571.00	✓	1,625	C182C17WB3	60	115/208-230	12.6	1.15	13.46	S, MX

Specifications are subject to change without notice

♥ Note listing on inside back flap

Single Phase - TEFC - C Face With Base - Featuring Electronic Solid State Encapsulated Switch

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥ Notes
1/3	3600	56C	113580.00	✓	645	C6C34WK2	27	115/208-230	2.6	1.15	10.69	S, US
	1800	56C	112526.00	✓	653	C6C17WK2	28	115/208-230	3.2	1.15	10.69	S, US
1/2	3600	56C	113581.00	✓	653	C6C34WK3	25	115/208-230	3.6	1.15	10.69	S, US
	1800	56C	112527.00	✓	677	C6C17WK3	28	115/208-230	4.4	1.15	11.19	S, US
3/4	3600	56C	113582.00	✓	662	C6C34WK4	31	115/208-230	5.0	1.15	11.69	S, US
	1800	56C	112528.00	✓	767	C6C17WK4	30	115/208-230	5.4	1.15	11.69	S, US
1	3600	56C	113583.00	✓	664	C6C34WK6	31	115/208-230	6.0	1.15	12.19	S, US
	1800	56C	112529.00	✓	883	C6C17WK5	33	115/208-230	6.4	1.15	12.19	S, US
1 1/2	3600	56C	113584.00	✓	972	C6C34WK5	36	115/208-230	8.5	1.15	12.69	S, US
	1800	56HC	113300.00	✓	1,125	C6C17WK6	45	115/208-230	9.5	1.15	13.69	S, US
2	3600	56HC	114637.00	✓	1,121	C6C34WK9	43	115/208-230	10.0	1.00	13.69	S, US

Specifications are subject to change without notice

♥ Note listing on inside back flap



Single Phase - TEFC - C Face Less Base - Featuring Electronic Solid State Encapsulated Switch

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥ Notes
1/3	3600	56C	114310.00	✓	641	C6C34WC2	25	115/208-230	2.6	1.15	10.69	S, US
	1800	56C	114311.00	✓	650	C6C17WC2	27	115/208-230	3.2	1.15	10.69	S, US
1/2	3600	56C	114312.00	✓	650	C6C34WC3	25	115/208-230	3.6	1.15	10.69	S, US
	1800	56C	114313.00	✓	667	C6C17WC3	29	115/208-230	4.4	1.15	11.19	S, US
3/4	3600	56C	114314.00	✓	653	C6C34WC4	31	115/208-230	5.0	1.15	11.69	S, US
	1800	56C	114315.00	✓	771	C6C17WC4	31	115/208-230	5.4	1.15	11.69	S, US
1	3600	56C	114316.00	✓	657	C6C34WC5	29	115/208-230	6.0	1.15	12.19	S, US
	1800	56C	114317.00	✓	874	C6C17WC5	34	115/208-230	6.4	1.15	12.19	S, US
1 1/2	3600	56C	114318.00	✓	971	C6C34WC6	36	115/208-230	8.5	1.15	12.69	S, US
	1800	56C	114319.00	✓	1,121	C6C17WC6	43	115/208-230	9.5	1.15	13.69	S, US

Specifications are subject to change without notice

♥ Note listing on inside back flap

View On-line Technical Information



Explosion Proof
Motors

Automotive
Duty Motors

Pump
Motors

Washguard®
Motors

Agricultural
Motors

HVAC / Fan
Motors

Special Voltage
Motors

Definite
Purpose Motors

Brake Motors

Washguard® Motors

White Epoxy Painted - Three Phase



Three Phase - TENV and TEFC C Face Less Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
1/4	1800	56C	113649.00	✓	625	C6T17VC5	19	208-230/460	1.1	68.0	1.15	9.56	S, US, 12
1/3	3600	56C	116640.00	✓	646	C6T34VC16	19	208-230/460	1.1	77.0	1.15	10.08	S, US, 12
	1800	56C	113954.00	✓	664	C6T17VC6	19	208-230/460	1.3	72.0	1.15	9.56	S, US, 12
	1800	56C	116642.00	✓	664	C6T17WC23	19	208-230/460	1.7	68.0	1.15	10.69	S, US, 13
1/2	3600	56C	116643.00	✓	666	C6T34VC17	22	208-230/460	1.6	82.5	1.15	10.06	S, US, 12
	1800	56C	113473.00	✓	685	C6T17VC4	22	208-230/460	1.8	78.5	1.15	10.06	S, US, 12
	1800	56C	116644.00	✓	685	C6T17WC24	22	208-230/460	2.0	74.0	1.15	11.19	S, US, 13
3/4	3600	56C	113022.00	✓	693	C6T34VC1	23	208-230/460	2.4	84.0	1.15	11.06	S, US, 12
	1800	56C	113019.00	✓	793	C6T17VC1	28	208-230/460	2.5	80.0	1.15	10.56	S, US, 12
	1800	56C	116645.00	✓	793	C6T17FC204	28	208-230/460	2.8	77.0	1.15	11.69	S, US, 13
1	3600	56C	113023.00	✓	808	C6T34VC2	35	208-230/460	2.6	85.5	1.15	11.56	S, US, 12
	1800	56C	113020.00	✓	827	C6T17VC2	32	208-230/460	3.2	80.0	1.15	11.56	S, US, 12
	1800	56C	116646.00	✓	827	C6T17WC25	32	208-230/460	3.8	77.0	1.15	11.69	S, US, 13
	1800	143TC	120760.00	✓	827	C143T17VC1	35	208-230/460	3.2	80.0	1.15	11.75	S, US, 12
	1800	143TC	G121652.00	✓	847	C143T17WC8	33	208-230/460	3.1	82.5	1.15	13.25	S, US, 13
1 1/2	3600	56C	113024.00	✓	857	C6T34VC3	42	208-230/460	3.8	84.0	1.15	12.56	S, US, 12
	1800	56C	113021.00	✓	862	C6T17VC3	44	208-230/460	4.2	84.0	1.15	13.06	S, US, 12
	1800	56C	116647.00	✓	862	C6T17WC26	44	208-230/460	5.0	78.5	1.15	12.69	S, US, 13
	1800	145TC	120761.00	✓	862	C145T17VC1	47	208-230/460	4.2	84.0	1.15	13.25	S, US, 12
	1800	145TC	G121655.00	✓	885	C145T17WC28	45	208-230/460	4.4	84.0	1.15	13.25	S, US, 13
2	3600	56C	113593.00	✓	980	C6T34VC5	47	208-230/460	5.0	84.0	1.00	13.06	S, US, 12
	3600	145TC	121040.00	✓	980	C145T34VC1	45	208-230/460	5.0	84.0	1.15	13.12	S, US, 12
	1800	56C	114616.00	✓	1,006	C6T17WC12	48	208-230/460	6.2	81.5	1.15	12.69	S, US, 13
	1800	145TC	G120762.00	✓	1,093	C145T17WC27	47	208-230/460	5.6	84.0	1.15	13.75	S, US, 13
3	3600	56C	115976.00	✓	1,196	C6T34WC7	39	208-230/460	7.6	84.0	1.15	13.19	S, US, 13
	3600	145TC	G120987.00	✓	1,291	C145T34WC15	44	208-230/460	7.6	85.5	1.15	13.75	S, US, 13
	1800	182TC	G131596.00	✓	1,440	C182T17WC9	81	208-230/460	7.6	87.5	1.15	14.47	S, MX, 13
5	3600	184TC	G131595.00	✓	1,802	C184T34WC7	75	208-230/460	12.0	87.5	1.15	14.47	S, MX, 13
	1800	184TC	G131597.00	✓	1,625	C184T17WC8	95	208-230/460	13.0	87.5	1.15	14.97	S, MX, 13
7 1/2	3600	S213TC	G131594.00	✓	2,234	C184T34WC6	102	208-230/460	16.8	88.5	1.00	17.47	S, MX, 13
	1800	213TC	G140467.00	✓	2,060	C213T17WC3	145	208-230/460	20.4	89.5	1.15	17.71	S, MX, 13
10	3600	215TC	G140737.00	✓	2,654	C215T34WC2	170	208-230/460	24.0	89.5	1.15	20.57	S, US, 13
	1800	215TC	G140465.00	✓	2,341	C215T17WC3	180	208-230/460	26.0	89.5	1.15	18.71	S, MX, 13
15	3600	215TC	G140738.00	✓	3,267	C215T34WC4	140	208-230/460	36.0	90.2	1.15	20.57	S, US, 13

Note 12 - TENV

Specifications are subject to change without notice

♥ Note listing on inside back flap



View On-line Technical Information





Washguard® Motors

White Epoxy Painted - Three Phase

Three Phase - TEFC - Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
1/2	1800	56	112427.00	✓	673	C6T17WB6	24	208-230/460	2.0	74.0	1.15	10.81	S, US
3/4	1800	56	112428.00	✓	702	C6T17WB7	27	208-230/460	2.8	77.0	1.15	10.81	S, US
1	1800	56	112627.00	✓	738	C6T17WB8	26	208-230/460	3.8	77.0	1.15	11.31	S, US
	1800	143T	121865.00	✓	928	C143T17WB4	35	208-230/460	3.1	85.5	1.15	12.75	S, US
1 1/2	1800	145T	121869.00	✓	930	C145T17WB23	51	208-230/460	4.4	86.5	1.15	12.75	S, US
2	1800	145T	121866.00	✓	1,157	C145T17WB22	46	208-230/460	5.6	86.5	1.15	13.75	S, US
3	3600	182T	132203.00	✓	1,583	CZ182T34WK2	85	208-230/460	7.6	86.5	1.25	14.27	S, MX
	1800	56HZ	115751.00	✓	1,029	C6T17FB113	45	208-230/460	8.6	82.5	1.00	14.25	S, US, 12
	1800	182T	132196.00	✓	1,553	C182T17WB10	69	208-230/460	8.2	89.5	1.15	13.96	S, MX
5	3600	184T	132202.00	✓	1,776	C184T34WB5	75	208-230/460	12.0	88.5	1.25	14.46	S, MX
	1800	184T	132197.00	✓	1,776	C184T17WB8	85	208-230/460	13.0	89.5	1.15	14.96	S, MX
7 1/2	3600	184T	132306.00	✓	2,215	C184T34WB6	87	208-230/460	16.8	89.5	1.15	15.96	S, MX
	3600	S213T	132204.00	✓	2,215	C184T34WB6	87	208-230/460	16.8	89.5	1.15	16.59	S, MX
	1800	213T	140819.00	✓	2,254	C213T17WB6	131	208-230/460	20.4	91.7	1.25	17.21	S, MX
10	1800	215T	140820.00	✓	2,696	C215T17WB5	165	208-230/460	26.0	91.7	1.25	18.71	S, MX

Green items are Premium Efficient

♥ Note listing on inside back flap

Note 12 - TENV

Specifications are subject to change without notice



View On-line Technical Information



Explosion Proof
Motors

Automotive
Duty Motors

Pump
Motors

Washguard®
Motors

Agricultural
Motors

HVAC / Fan
Motors

Special Voltage
Motors

Definite
Purpose Motors

Brake Motors

Washguard® Motors

White Epoxy Painted - Three Phase



Three Phase - TENV and TEFC C Face With Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
1/4	1800	56C	112523.00	✓	629	C6T17WK8	21	208-230/460	1.1	67.0	1.15	10.69	S, US, 13
1/3	3600	56C	116641.00	✓	666	C6T34VK15	22	208-230/460	1.1	77.0	1.15	10.08	S, US, 12
	1800	56C	112547.00	✓	692	C6T17WK9	22	208-230/460	1.7	68.0	1.15	10.69	S, US, 13
1/2	3600	56C	113588.00	✓	627	C6T34VK3	26	208-230/460	1.5	82.5	1.15	10.58	S, US, 12
	1800	56C	113586.00	✓	702	C6T17VK2	23	208-230/460	1.8	78.5	1.15	10.06	S, US, 12
	1800	56C	112429.00	✓	702	C6T17WK1	22	208-230/460	2.0	74.0	1.15	11.19	S, US, 13
	1200	56C	115743.00	✓	878	C6T11VK1	24	208-230/460	2.3	77.0	1.15	11.56	S, US, 12
3/4	3600	56C	113589.00	✓	688	C6T34VK2	24	208-230/460	2.4	84.0	1.15	11.08	S, US, 12
	1800	56C	113587.00	✓	813	C6T17VK1	30	208-230/460	2.5	80.0	1.15	10.56	S, US, 12
	1800	56C	112430.00	✓	813	C6T17WK2	26	208-230/460	2.8	77.0	1.15	11.19	S, US, 13
	1200	56HC	115744.00	✓	955	C6T11VK2	25	208-230/460	3.0	78.5	1.15	13.06	S, US, 12
1	3600	56C	113590.00	✓	806	C6T34VK4	34	208-230/460	2.6	85.5	1.15	11.58	S, US, 12
	1800	56C	112524.00	✓	847	C6T17WK10	27	208-230/460	3.8	77.0	1.15	11.69	S, US, 13
	1800	143TC	121867.00	✓	976	C143T17WK11	37	208-230/460	3.2	85.5	1.15	13.25	S, US, 13
	1200	56HC	115745.00	✓	1,021	C6T11WK3	35	208-230/460	4.0	77.0	1.15	13.08	S, US, 13
1 1/2	3600	56C	113591.00	✓	889	C6T34VK5	44	208-230/460	3.8	84.0	1.15	12.56	S, US, 12
	1800	145TC	121871.00	✓	1,017	C145T17WK31	53	208-230/460	4.8	86.5	1.15	13.25	S, US, 13
	1800	56C	112643.00	✓	885	C6T17WK11	32	208-230/460	5.0	78.5	1.15	12.19	S, US, 13
	1200	56HC	115746.00	✓	1,079	C6T11WK4	31	208-230/460	5.7	77.0	1.15	14.18	S, US, 13
2	3600	56HC	113592.00	✓	988	C6T34VK6	48	208-230/460	5.0	84.0	1.15	13.06	S, US, 12
	3600	145TC	121039.00	✓	988	C145T34VK1	43	208-230/460	4.8	85.5	1.15	13.12	S, US, 12
	1800	56C	112644.00	✓	1,014	C6T17WK12	36	208-230/460	6.2	81.5	1.15	12.69	S, US, 13
	1800	145TC	121868.00	✓	1,257	C145T17WK30	49	208-230/460	5.8	86.5	1.15	13.75	S, US, 13
3	3600	145TC	121870.00	✓	1,485	C145T34WK28	46	208-230/460	7.6	89.5	1.15	13.75	S, US, 13
	3600	182TC	132199.00	✓	1,707	C182T34WK1	80	208-230/460	7.6	86.5	1.25	14.97	S, MX, 13
	1800	182TC	132198.00	✓	1,684	C182T17WK13	80	208-230/460	7.8	89.5	1.15	14.47	S, MX, 13
5	3600	184TC	132200.00	✓	2,109	C184T34WK10	79	208-230/460	12.0	88.5	1.15	14.47	S, MX, 13
	1800	184TC	132201.00	✓	1,901	C184T17WK15	84	208-230/460	12.8	89.5	1.15	14.97	S, MX, 13
7 1/2	3600	184TC	132205.00	✓	2,614	C184T34WK17	94	208-230/460	17.6	89.5	1.15	15.97	S, MX, 13
	3600	213TC	141120.00	✓	2,674	C213T34WK6	140	208-230/460	17.8	89.5	1.15	17.47	S, MX, 13
	1800	213TC	140822.00	✓	2,451	C213T17WK9	135	208-230/460	21.4	91.7	1.25	17.71	S, MX, 13
10	3600	215TC	140823.00	✓	3,157	C215T34WK9	129	208-230/460	23.6	90.2	1.15	20.57	S, US, 13
	1800	215TC	140821.00	✓	2,786	C215T17WK9	145	208-230/460	26.6	91.7	1.25	18.71	S, MX, 13

Green items are Premium Efficient

♥ Note listing on inside back flap

Note 12 - TENV

Specifications are subject to change without notice

Three Phase • 575 Volts

Three Phase - TEFC - C Face With Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 575 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
1/4	1800	56C	112520.00	✓	629	C6T17WK5	24	575	0.4	68.0	1.15	10.69	S, US
1/3	1800	56C	112521.00	✓	651	C6T17WK6	22	575	0.7	68.0	1.15	10.69	S, US
1/2	1800	56C	112483.00	✓	702	C6T17WK3	28	575	0.8	74.0	1.15	10.69	S, US
3/4	1800	56C	112484.00	✓	813	C6T17WK4	24	575	1.1	77.0	1.15	11.19	S, US
1	1800	56C	112522.00	✓	847	C6T17WK7	30	575	1.5	77.0	1.15	11.69	S, US

Specifications are subject to change without notice

♥ Note listing on inside back flap



View On-line Technical Information





Washguard® Motors

Washdown Duty Pump Motors

White Epoxy Painted

Three Phase - TEFC - JM Pump - E PAct Efficient - C Face With Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
1	1800	143JM	G121579.00	✓	1,132	C143T17WK16	41	208-230/460	3.1	82.5	1.15	16.25	S, US
1 1/2	3600	143JM	G121580.00	✓	1,222	C143T34WK9	33	208-230/460	4.0	82.5	1.15	16.25	S, US
	1800	145JM	G121581.00	✓	1,254	C145T17WK38	47	208-230/460	4.4	84.0	1.15	16.25	S, US
2	3600	145JM	G121582.00	✓	1,380	C145T34WK22	50	208-230/460	5.2	84.0	1.15	16.25	S, US
	1800	145JM	G121583.00	✓	1,294	C145T17WK39	49	208-230/460	5.6	84.0	1.15	16.75	S, US
3	3600	145JM	G121584.00	✓	1,480	C145T34WK23	54	208-230/460	7.6	85.5	1.15	16.75	S, US
	1800	182JM	G131967.00	✓	1,646	C182T17WK15	79	208-230/460	8.2	87.5	1.15	16.75	S, MX
5	3600	184JM	G131968.00	✓	1,964	C184T34WK12	81	208-230/460	12.0	87.5	1.15	16.75	S, MX
	1800	184JM	G131969.00	✓	1,781	C184T17WK17	95	208-230/460	13.0	87.5	1.15	17.63	S, MX
7 1/2	3600	184JM	G131970.00	✓	2,152	C184T34WK13	110	208-230/460	16.8	88.5	1.15	18.25	S, MX
	1800	213JM	G140733.00	✓	2,401	C213T17WK13	135	208-230/460	20.4	89.5	1.15	19.50	S, MX
10	3600	215JM	G140734.00	✓	2,959	C215T34WK5	142	208-230/460	24.0	89.5	1.15	22.20	S, US
	1800	215JM	G140735.00	✓	2,794	C215T17WK12	150	208-230/460	26.0	89.5	1.15	21.70	S, MX
15	3600	215JM	G140736.00	✓	3,382	C215T34WK6	160	208-230/460	36.0	90.2	1.15	22.20	S, US

Specifications are subject to change without notice

♥ Note listing on inside back flap

Washguard® Jet Pump Motors

Washdown duty three phase jet pump motors for industrial service. These motors include all of the features of LEESON's White Duck Washguard® motors with the addition of a 56J threaded shaft for use on jet pumps. For demanding pump applications in wet, humid, or washdown environments.

Three Phase - TEFC - C Face Less Base - Threaded Shaft

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
3/4	3600	56J	116774.00	✓	695	C6T34WC14	23	208-230/460	2.4	75.5	1.15	10.81	S, US
1	3600	56J	116775.00	✓	808	C6T34WC15	35	208-230/460	3.2	77.0	1.15	10.81	S, US
1 1/2	3600	56J	116776.00	✓	860	C6T34WC13	42	208-230/460	4.2	81.5	1.15	11.81	S, US
2	3600	56J	116777.00	✓	983	C6T34WC11	47	208-230/460	5.6	82.5	1.15	12.31	S, US
3	3600	56J	116778.00	✓	1,031	C6T34WC10	49	208-230/460	7.6	84.0	1.15	13.25	S, US

Specifications are subject to change without notice

♥ Note listing on inside back flap

Three Phase - TEFC - C Face With Base - Threaded Shaft

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
3/4	3600	56J	116779.00	✓	714	C6T34WK12	24	208-230/460	2.4	75.5	1.15	10.81	S, US
1	3600	56J	116780.00	✓	829	C6T34WK13	36	208-230/460	3.2	77.0	1.15	10.81	S, US
1 1/2	3600	56J	116781.00	✓	899	C6T34WK11	43	208-230/460	4.2	81.5	1.15	11.81	S, US
2	3600	56J	116782.00	✓	999	C6T34WK10	48	208-230/460	5.6	82.5	1.15	12.31	S, US
3	3600	56J	116783.00	✓	1,064	C6T34WK9	50	208-230/460	7.6	84.0	1.15	13.25	S, US

Specifications are subject to change without notice

♥ Note listing on inside back flap

View On-line Technical Information



Explosion Proof Motors

Automotive Duty Motors

Pump Motors

Washguard® Motors

Agricultural Motors

HVAC / Fan Motors

Special Voltage Motors

Define Purpose Motors

Brake Motors

Washguard® Motors

Washdown Duty Brakemotors

White Epoxy Painted



Washguard® Brakemotors - TENV/TEFC - C Face With Base

HP	SYN RPM 60 Hz	NEMA Frame	Brake Rating (ft-lbs)	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
1/3	1800	56C	3	116466.00	✓	1,381	C6T17VK28	40	208-230/460	1.3	72.00	1.15	14.00	S, US, 12
1/2	1800	56C	3	116467.00	✓	1,408	C6T17VK30	42	208-230/460	1.8	78.50	1.15	14.50	S, US, 12
3/4	1800	56C	6	116468.00	✓	1,670	C6T17VK29	44	208-230/460	2.5	80.00	1.15	15.00	S, US, 12
1	1800	56C	6	116469.00	✓	1,726	C6T17VK27	48	208-230/460	3.2	80.00	1.15	15.50	S, US, 12
	1800	143TC	6	121616.00	✓	1,726	C143T17VK7	49	208-230/460	3.2	80.00	1.15	16.06	S, US, 12
1 1/2	1800	145TC	10	G121617.00	✓	2,392	C145T17WK22	50	208-230/460	4.4	84.00	1.15	19.01	S, US, 13
2	1800	145TC	10	G121618.00	✓	2,481	C145T17WK21	62	208-230/460	5.6	84.00	1.15	19.01	S, US, 13

Note 12 - TENV

Specifications are subject to change without notice

♥ Note listing on inside back flap

Washguard® Brakemotors - TENV/TEFC - C Face Less Base

HP	SYN RPM 60 Hz	NEMA Frame	Brake Rating (ft-lbs)	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
1/3	1800	56C	3	116462.00	✓	1,332	C6T17VC43	39	208-230/460	1.3	72.00	1.15	14.00	S, US, 12
1/2	1800	56C	3	116463.00	✓	1,365	C6T17VC42	41	208-230/460	1.8	78.50	1.15	14.50	S, US, 12
3/4	1800	56C	6	116464.00	✓	1,625	C6T17VC44	43	208-230/460	2.5	80.00	1.15	15.00	S, US, 12
1	1800	56C	6	116465.00	✓	1,683	C6T17VC45	45	208-230/460	3.2	80.00	1.15	15.50	S, US, 12
	1800	143TC	6	121613.00	✓	1,683	C143T17VC8	46	208-230/460	3.2	80.00	1.15	15.56	S, US, 12
1 1/2	1800	145TC	10	121614.00	✓	2,332	C145T17WC20	49	208-230/460	5.0	78.50	1.15	18.01	S, US, 13
2	1800	145TC	10	121615.00	✓	2,398	C145T17WC19	61	208-230/460	6.2	81.50	1.15	18.51	S, US, 13

Note 12 - TENV

Specifications are subject to change without notice

♥ Note listing on inside back flap



View On-line Technical Information

Washguard® Motors

Washdown Duty Brakemotors

White Epoxy Painted

Washguard® Coupler Brakes

Larger coupler brakes on page 274.

Solid die-cast aluminum Stearns NEMA 4X coupler brake converts any TEFC or TENV 56C thru 145TC motor to a fail-safe brakemotor by mounting between the C-face motor and driven equipment. Food safe white epoxy finish. BISSC Certified. Adds 5" to the overall length of 56C thru 145TC WASHGUARD® TEFC or TENV motors. Includes all mounting components.



For Both Single and Three Phase Motors

Cat. No. 115/230V Single Phase	List Price	Cat. No. 230/460V Three Phase	List Price	Cat. No. 575V Three Phase	List Price	Brake Rating (ft-lbs)	Max. HP @ 1725 rpm	Mounts to NEMA Frame	Coupler Brake Output Shaft and Face	App. Wt. (lbs.)
175566.00	1,220	175567.00	1,220	175568.00	1,220	3	1	56C	5/8", 56C	13.0
175572.00	1,313	175573.00	1,313	175574.00	1,313	6	2	56C/143-5TC	5/8", 56C	14.0

Specifications are subject to change without notice

Washguard® Brakekits™

Kit of components including a Stearns NEMA 4X brake to convert 56 thru 145T frame stock TEFC only motors to fail-safe brakemotors. Food safe white epoxy finish. BISSC Certified. Adds 5 1/8" to the overall length of 56 thru 145T WASHGUARD® TEFC motors.



For 230/460V Three Phase and 230V Single Phase Motors

Brake Rating (ft-lbs)	Mounts to NEMA Frame	Max. HP @ 1725rpm	Cat. No. 230/460 V Brake Coil Voltage	List Price	(lbs.)
3	56/143-5T	1	175771.00*	1,356	24
6	56/143-5T	2	175772.00*	1,429	36
10	56/143-5T	3	175773.00*	1,506	43

* For 56/145 frame motors having a "B" for the suffix letter for the date code and having a face mount fan guard.

Specifications are subject to change without notice

Washguard Motors

Lincoln Wash -Thru™ Motors

230/460 Volts - Three Phase - Foot Mount & C Face

Features:

- Pressure encapsulation technology - winding endcoils totally encapsulated
- 303 Stainless shaft
- Double sealed bearings
- FDA approved white finish coat
- Stainless laser etched nameplate



Applications:

Exceptional choice for demanding uses in poultry, seafood, meat and other food processing plants. Other applications include areas where a high degree of dust, moisture, and vibration exist.

Three Phase - Drip-Proof - Rigid Base - Encapsulated

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥ Notes
1/2	3600	56	LM21031	C/A	975	SREW2S0.5T61	30	230/460	2.4	70.0	1.00	—	S, US
	1800	56	LM20655	C/A	1,051	SREW4S0.5T61	26	230/460	—	68.0	1.00	10.44	S, US
3/4	3600	56	LM21034	✓	1,034	SREW2S0.75T61	30	230/460	—	74.0	1.00	—	S, US
	1800	56	LM20658	C/A	1,090	SREW4S0.75T61	24	230/460	—	75.5	1.00	—	S, US
1	3600	56	LM21037	C/A	1,124	SREW2S1T61	30	230/460	3.2	78.5	1.00	11.44	S, US
	1800	56	LM21061	C/A	1,141	SREW4S1T61	30	230/460	3.2	77.0	1.00	10.44	S, US
1 1/2	3600	56	LM21040	C/A	1,199	SREW2S1.5T61	30	230/460	—	78.5	1.00	—	S, US
	3600	143T	LM21046	✓	1,247	SSEW2S1.5T61	35	230/460	4.6	78.5	1.00	11.49	S, US
	1800	56H	LM21062	C/A	1,189	SREW4S1.5T61	30	230/460	4.8	80.0	1.00	10.94	S, US
	1800	145T	LM20670	C/A	1,189	SSEW4S1.5T61	35	230/460	4.8	80.0	1.00	10.99	S, US
2	3600	145T	LM21049	C/A	1,390	SSEW2S2T61	35	230/460	6.6	82.5	1.00	10.99	S, US
	1800	56H	LM21063	✓	1,458	SREW4S2T61	34	230/460	6.2	81.5	1.00	10.94	S, US
	1800	145T	LM20673	✓	1,423	SSEW4S2T61	35	230/460	6.2	81.5	1.00	11.99	S, US
3	3600	182T	LM21052	✓	1,660	SSEW2S3T61	64	230/460	—	81.5	1.00	—	S, US
	1800	182T	LM20676	✓	1,857	SSEW4S3T61	64	230/460	7.8	89.5	1.00	14.22	S, US
5	3600	184T	LM21055	C/A	2,349	SSEW2S5T61	70	230/460	12.4	81.5	1.00	14.22	S, US
	1800	184T	LM20679	C/A	2,112	SSEW4S5T61	70	230/460	13.2	87.5	1.00	14.22	S, US
7 1/2	3600	213T	LM22423	✓	2,924	SSEW2S7.5T61	109	230/460	19.0	81.5	1.00	17.30	S, US
	1800	213T	LM22435	✓	2,688	SSEW4S7.5T61	109	230/460	19.2	81.5	1.00	15.80	S, US
10	3600	215T	LM22426	✓	3,488	SSEW2S10T61	125	230/460	24.0	84.0	1.00	17.30	S, US
	1800	215T	LM22438	C/A	3,071	SSEW4S10T61	125	230/460	25.0	84.0	1.00	17.30	S, US

▼ LM Numbers are Lincoln Models

C/A - Check Availability

Specifications are subject to change without notice

♥ Note listing on inside back flap



View On-line Technical Information

Washguard Motors

Lincoln Wash -Thru™ Motors

Three Phase - Drip-Proof - C Face Less Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥ Notes
1/2	3600	56C	LM21033	C/A	1,027	SREW2S0.5TCN61	35	230/460	—	70.0	1.00	—	S, US
	1800	56C	LM20657	√	1,105	SREW4S0.5TCN61	35	230/460	2.4	74.0	1.00	10.43	S, US
3/4	3600	56C	LM21036	C/A	1,088	SREW2S0.75TCN61	35	230/460	—	74.0	1.00	—	S, US
	1800	56C	LM20660	√	1,142	SREW4S0.75TCN61	35	230/460	3.0	77.0	1.00	10.43	S, US
1	3600	56C	LM21039	C/A	1,177	SREW2S1TCN61	35	230/460	3.2	75.5	1.00	10.43	S, US
	1800	56C	LM20662	C/A	1,192	SREW4S1TCN61	35	230/460	3.6	78.5	1.00	10.93	S, US
	1800	143TC	LM20669	C/A	1,192	SSEW4S1TCN61	40	230/460	3.6	78.5	1.00	10.99	S, US
1 1/2	3600	56C	LM21042	C/A	1,253	SREW2S1.5TCN61	35	230/460	—	78.5	1.00	—	S, US
	3600	143TC	LM21048	C/A	1,297	SSEW2S1.5TCN61	40	230/460	—	78.5	1.00	—	S, US
	1800	56HC	LM20664	C/A	1,245	SREW4S1.5TCN61	35	230/460	4.8	80.0	1.00	10.93	S, US
	1800	145TC	LM20672	C/A	1,245	SSSEW4S1.5TCN61	40	230/460	4.8	80.0	1.00	10.99	S, US
2	3600	56HC	LM21045	C/A	1,388	SREW2S2TCN61	40	230/460	6.6	78.5	1.00	10.93	S, US
	3600	145TC	LM21051	C/A	1,441	SSEW2S2TCN61	40	230/460	6.6	78.5	1.00	10.99	S, US
	1800	56HC	LM20666	C/A	1,510	SREW4S2TCN61	40	230/460	6.2	81.5	1.00	11.93	S, US
	1800	145TC	LM20675	√	1,475	SSEW4S2TCN61	40	230/460	6.2	81.5	1.00	11.99	S, US

▼ LM Numbers are Lincoln Models

♥ Note listing on inside back flap

C/A - Check Availability

Specifications are subject to change without notice

View On-line Technical Information



Explosion Proof Motors

Automotive Duty Motors

Pump Motors

Washguard® Motors

Agricultural Motors

HVAC / Fan Motors

Special Voltage Motors

Definite Purpose Motors

Brake Motors

Washguard® Motors

DC Washdown Duty Motors

White Epoxy Painted



DC - SCR Rated 90 & 180 Volts - TENV - C Face with Removable Base

HP	Full Load RPM	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Arm. Volts DC	Control Volts AC Input	F. L. Amps DC	"C" Dim. (Inches)	♥ Notes
1/4	1750	S56C	108423.00	✓	808	C4D17VK9C	23	90	115.0	2.7	10.69	S, US, 12
	1750	SS56C	098375.00	C/A	808	C42D17VK1	21	180	230.0	1.4	10.22	S, US, 12
1/3	1750	S56C	108424.00	✓	855	C4D17VK10	26	90	115.0	3.5	11.69	S, US, 12
	1750	SS56C	098376.00	C/A	855	C42D17VK2	22	180	230.0	1.7	10.22	S, US, 12
1/2	1750	S56C	108226.00	✓	958	C4D17VK1	38	90	115.0	4.9	13.69	S, US, 12
	1750	S56C	108227.00	✓	958	C4D17VK2	43	180	230.0	2.4	13.69	S, US, 12
3/4	1750	S56C	108228.00	✓	1,163	C4D17VK3	53	90	115.0	7.0	15.69	S, US, 12
	1750	S56C	108229.00	✓	1,163	C4D17VK4	50	180	230.0	3.5	15.69	S, US, 12
1	1750	S56C	108230.00	✓	1,417	C4D17WK1	45	90	115.0	10.0	15.81	S, US, 13
	1750	S56C	108231.00	✓	1,417	C4D17WK2	42	180	230.0	5.0	14.81	S, US, 13
1 1/2	1750	S56C	108232.00	✓	1,810	C4D17WK3	50	180	230.0	7.6	15.81	S, US, 13

Note 13 - TEFC

C/A - Check Availability

Specifications are subject to change without notice

♥ Note listing on inside back flap

Washguard® - DC - IEC Frame

180 Volts - TENV IP55 - B5 Flange With Removable B3 Base

HP/ kW	Full Load RPM	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Arm. Volts DC	Control Volts AC Input	F. L. Amps DC	"C" Dim. (Inches)	♥ Notes
1/2 - .37	1750	71	098040.00	C/A	847	42D17VD1	22	180	230.0	2.5	10.69	S, US
3/4 - .55	1750	80	108407.00	C/A	1,148	4D17VD1	52	180	230.0	3.5	16.02	S, US

C/A - Check Availability

Specifications are subject to change without notice

♥ Note listing on inside back flap

If base is removed, do not reinstall bolts without using washers to compensate for the thickness of base.

These WASHGUARD® motors are modular design but stocked with B5 flange and B3 foot. The foot is removable. The B5 flange can be replaced with a B14 face or other diameter B5 flanges noted on page 175.

All Washdown Duty Motors Have Class F Insulation.



View On-line Technical Information



Washguard® Motors

SUB-FHP IP55 Washguard® Motors

White Epoxy Painted

General Specifications:

Precision subfractional horsepower DC permanent magnet motors. Designed for use with fullwave non-filtered SCR controls or battery supplied low voltage for adjustable speed applications requiring constant torque throughout the speed range.

Features:

- 303 Stainless steel shaft resists corrosion
- Lubricated spring loaded contact seals prevent moisture from entering the motor
- Double sealed, Oversize bearings with high temp lubricant
- Exterior and interior components protected against moisture, acids, alkalies and oil
- Cast conduit box for superior sealing includes:
 - Threaded conduit entrance
 - Drain holes
 - Nitrile gaskets
 - 304 stainless steel conduit box cover
 - Stainless steel hardware
- USDA Approved white epoxy finish
- Nylon seals at bolt heads for superior sealing
- O ring sealed brush covers



90 Volts DC - TENV - Square Flange Less Feet

HP	Full Load RPM	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Arm. Volts DC	Control Volts AC Input	F. L. Amps DC	"C" Dim. (Inches)	♥ Notes
1/8	1750	31S	M1120181.00	✓	502	M31D17VZ1	11	90	115.0	1.5	8.57	S, US
1/6	1750	31S	M1120183.00	✓	509	M31D17VZ3	11	90	115.0	1.9	10.07	S, US
1/4	2500	32F42CZ	M1120185.00	✓	554	M32D25VC1	13	90	115.0	1.9	10.00	S, US

Specifications are subject to change without notice

♥ Note listing on inside back flap

Low Voltage - 12 Volt - TENV - Square Flange or C Face

HP	Full Load RPM	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Arm. Volts DC	F. L. Amps DC	"C" Dim. (Inches)	♥ Notes
1/8	1750	31S	M1120182.00	✓	523	M31D17VZ2	7	12	10.5	8.1	S, US
1/6	1750	31S	M1120184.00	✓	530	M31D17VZ4	11	12	14.5	9.6	S, US
1/4	2500	32F42CZ	M1120186.00	✓	575	M32D25VC2	13	12	20.0	9.5	S, US

Specifications are subject to change without notice

♥ Note listing on inside back flap

View On-line Technical Information



Explosion Proof Motors

Automotive Duty Motors

Pump Motors

Washguard® Motors

Agricultural Motors

HVAC / Fan Motors

Special Voltage Motors

Definite Purpose Motors

Brake Motors

Washguard® Motors

IP55 Washguard® Gearmotors - Parallel Shaft White Epoxy Painted



General Specifications - SCR rated Gearmotors:

- Performance matched for continuous duty service over 60:1 speed range
- Constant torque throughout the range when powered by a full-wave unfiltered SCR-type adjustable speed control having a typical form factor of 1.3 to 1.4

General Specifications - Low voltage Gearmotors:

- Performance matched for continuous duty service
- Designed for battery power or can be used with a low voltage controller with form factor up to 1.05

Features:

- Gearbox output shafts are coated with Miroton 3300 fortified Teflon for superior corrosion resistance
- Frame, endshields, armature and interior components protected by enamel and polyester compounds for resistance to moisture, acids, alkalies and oil
- Precision machined in-line steel gears
- First stage steel helical gear followed by spur-type gears
- Lubrication is permanent semi-fluid grease, reducing possibility of leakage
- Output shafts have needle bearings for high load capacities
- Gearbox Shafts are hardened steel
- Cast conduit box with threaded conduit holes and Nitrile gaskets keep water out
- Conduit box cover is made from 304 stainless steel
- For any condensation that may accumulate inside the motor, a one-way stainless steel vapor vent is provided
- All hardware is stainless steel
- Painted with white epoxy for superior corrosion resistance and protection
- Machined fits between the endbells and motor frame are sealed with gaskets
- Thru-bolt heads and nuts sealed with fiber washers
- O-rings under each threaded brush cover

Application Notes :

- Extended life in wet, high humidity applications
- Design repels water from entering motor
- Internal components protected against rust and corrosion
- These gearmotors are designed for mounting at any angle, but motor below the reducer should be avoided to prevent leakage of lubricant into the motor should the motor shaft seal fail
- Overhung load capacities shown are at center of output shaft
- Motor's stall torque could exceed recommended full load torques. A current limiting device such as an SCR control should be used to prevent damage. This issue is even more critical for low voltage motors, typically no controller is used since motor is connected directly to a battery, so some type of current limit or fusing should be considered.
- USDA approved white epoxy finish
- **Bison/Dayton direct interchange**



Washguard® Motors

IP55 Washguard® Gearmotors - Parallel Shaft

White Epoxy Painted

P300 Series - SCR RATED - 90V - Parallel Shaft - TENV - 1.0 Service Factor

Output RPM	F.L Torque (Lb.In.)	Input HP	Catalog Number	Stock	List Price	Model Number	Gearmotor Type & Frame	Ratio to 1	DC Arm. Volts	Full Load Amps DC	Over-hung Load (Lbs.)
5	353	1/20	M1125261.00	✓	854	CM31D17VZ5	P303-31	336	90	0.8	565
31	220	1/8	M1125262.00	✓	877	CM31D17VZ6	P303-31	58	90	1.6	327
51	130	1/8	M1125263.00	✓	811	CM31D17VZ7	P302-31	35	90	1.6	277
94	77	1/8	M1125264.00	✓	811	CM31D17VZ8	P302-31	19	90	1.6	236
167	43	1/8	M1125265.00	✓	811	CM31D17VZ9	P302-31	11	90	1.6	197

P	PB	X Inches	XL	XH
3.13	3.8	3.54	10.44	8.94
3.13	3.8	3.54	11.94	10.44
3.13	3.8	3.54	11.94	10.44
3.13	3.8	3.54	11.94	10.44
3.13	3.8	3.54	11.94	10.44

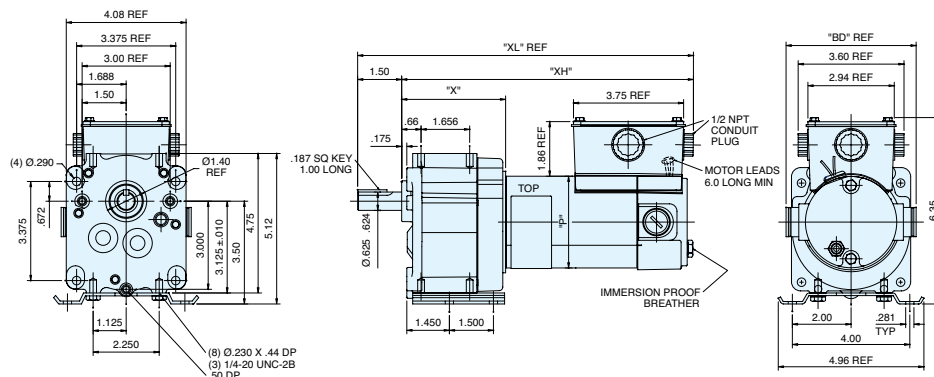
Specifications are subject to change without notice

P300 Series - Low Voltage (12V) - Parallel Shaft - TENV - 1.0 Service Factor

Output RPM	F.L Torque (Lb.In.)	Input HP	Catalog Number	Stock	List Price	Model Number	Gearmotor Type & Frame	Ratio to 1	DC Arm. Volts	Full Load Amps DC	Over-hung Load (Lbs.)
5	353	1/20	M1125266.00	✓	877	CM31D17VZ10	P303-31	336	12	6.4	565
31	220	1/8	M1125267.00	✓	899	CM31D17VZ11	P303-31	58	12	11.0	327

P	PB	X Inches	XL	XH
3.13	3.8	3.54	10.44	8.94
3.13	4.43	3.54	11.94	9.94

Specifications are subject to change without notice



View On-line Technical Information



Explosion Proof Motors

Automotive Duty Motors

Pump Motors

Washguard® Motors

Agricultural Motors

HVAC / Fan Motors

Special Voltage Motors

Definite Purpose Motors

Brake Motors

Washguard® Motors

IP55 Washguard® Gearmotors - Parallel Shaft White Epoxy Painted



General Specifications - SCR rated Gearmotors:

- Performance matched for continuous duty service over 60:1 speed range
- Constant torque throughout the range when powered by a full-wave unfiltered SCR-type adjustable speed control having a typical form factor of 1.3 to 1.4

General Specifications - Low voltage Gearmotors:

- Performance matched for continuous duty service
- Designed for battery power or can be used with a low voltage controller with form factor up to 1.05

Features:

- Gearbox output shafts are coated with Mirolon 3300 fortified Teflon for superior corrosion resistance
- Frame, endshields, armature and interior components protected by enamel and polyester compounds for resistance to moisture, acids, alkalies and oil
- Precision machined in-line steel gears
- First stage steel helical gear followed by spur-type gears
- Lubrication is permanent semi-fluid grease, reducing possibility of leakage
- Output shafts have needle bearings for high load capacities
- Gearbox Shafts are hardened steel
- Cast conduit box with threaded conduit holes and Nitrile gaskets keep water out
- Conduit box cover is made from 304 stainless steel
- For any condensation that may accumulate inside the motor, a one-way stainless steel vapor vent is provided
- All hardware is stainless steel
- Painted with white epoxy for superior corrosion resistance and protection
- Machined fits between the endbells and motor frame are sealed with gaskets
- Thru-bolt heads and nuts sealed with fiber washers
- O-rings under each threaded brush cover

Application Notes :

- Extended life in wet, high humidity applications
- Design repels water from entering motor
- Internal components protected against rust and corrosion
- These gearmotors are designed for mounting at any angle, but motor below the reducer should be avoided to prevent leakage of lubricant into the motor should the motor shaft seal fail
- Overhung load capacities shown are at center of output shaft
- Motor's stall torque could exceed recommended full load torques. A current limiting device such as an SCR control should be used to prevent damage. This issue is even more critical for low voltage motors, typically no controller is used since motor is connected directly to a battery, so some type of current limit or fusing should be considered.
- USDA approved white epoxy finish
- **Bodine/Baldor direct interchange**



**IP55 Washguard® Gearmotors - Parallel Shaft
White Epoxy Painted**

Washguard® Motors

IP55 Washguard® Right Angle Gearmotors White Epoxy Painted



General Specifications - SCR rated Gearmotors:

- Performance matched for continuous duty service over 60:1 speed range
- Constant torque throughout the range when powered by a full-wave unfiltered SCR-type adjustable speed control having a typical form factor of 1.3 to 1.4

General Specifications - Low voltage Gearmotors:

- Performance matched for continuous duty service
- Designed for battery power or can be used with a low voltage controller with form factor up to 1.05

Features:

- 303 Stainless Steel gearbox output shaft
- Frame, endshields, armature and interior components protected by enamel and polyester compounds for resistance to moisture, acids, alkalies and oil
- Cast conduit box with threaded conduit holes and Nitrile gaskets keep water out
- Conduit box cover is made from 304 stainless steel
- For any condensation that may accumulate inside the motor, a one-way stainless steel vapor vent is provided
- All hardware is stainless steel
- Painted with white epoxy for superior corrosion resistance and protection
- Machined fits between the endbells and motor frame are sealed with gaskets
- Thru-bolt heads and nuts sealed with fiber washers
- O-rings under each threaded brush cover
- Worm-type right-angle gearing features hardened, steel worm with bronze worm wheel for long life and quiet operation
- Precision machined aluminum gear housing
- Lubrication is permanent with an oil bath
- Gearbox has all ball bearings
- Output shaft is field interchangeable from left hand to right hand style by reassembly
- Double output shaft available as a factory option

Application Notes :

- These right-angle gearmotors have a lubrication breather positioned for horizontal mounting. For other mountings, the breather plug must be reoriented by using a 90 deg 1/8" NPT taper pipe elbow (See drawing). Elbow not available from LEESON
- These gearmotors are designed for mounting at any angle, but motor below the reducer should be avoided to prevent leakage of lubricant into the motor should the motor shaft seal fail
- Overhung load capacities shown are at center of output shaft
- For additional information, see Bulletin 1830



Washguard® Motors

IP55 Washguard® Right Angle Gearmotors

White Epoxy Painted

TENV - 1.0 Service Factor - SCR Rated 90V

Output RPM	F.L Torque (Lb.In.)	Input HP	Catalog Number	Stock	List Price	Model Number	Gearmotor Type & Frame	Ratio to 1	DC Arm. Volts	Full Load Amps DC	Over-hung Load (Lbs.)
42	80	1/8	M1125275.00	✓	884	M31D25VZ3	13F60-31	60	90	2.2	235
250	25	1/8	M1125276.00	✓	884	M31D25VZ4	13F10-31	10	90	2.2	235
62	135	1/4	M1125277.00	✓	891	M32D25VZ6	13F40-32	40	90	3.7	235
125	90	1/4	M1125278.00	✓	891	M32D25VZ7	13F20-32	20	90	3.7	235
250	50	1/4	M1125279.00	✓	891	M32D25VZ8	13F10-32	10	90	3.7	235

P	PB	X Inches	XL	XH
3.13	3.8	4.5	10.86	6.36
3.13	3.8	4.5	10.86	6.36
3.25	3.8	4.5	12.86	8.36
3.25	3.8	4.5	12.86	8.36
3.25	3.8	4.5	12.86	8.36

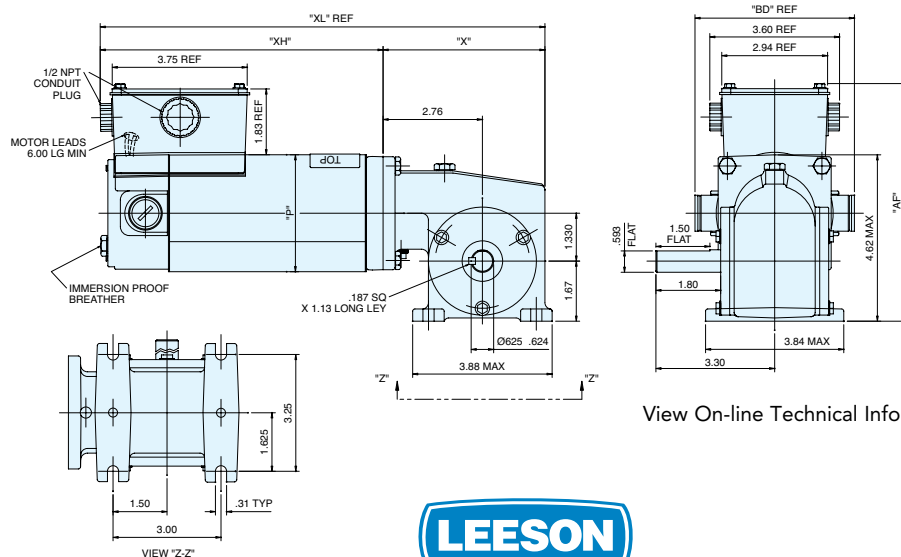
Specifications are subject to change without notice

PE350 Series Parallel Shaft - TENV - 1.0 Service Factor - Low Voltage 12V

Output RPM	F.L Torque (Lb.In.)	Input HP	Catalog Number	Stock	List Price	Model Number	Gearmotor Type & Frame	Ratio to 1	DC Arm. Volts	Full Load Amps DC	Over-hung Load (Lbs.)
62	135	1/4	M1125280.00	✓	846	M32D25VZ9	13F40-32	40	12	28.0	235
125	90	1/4	M1125281.00	✓	846	M32D25VZ10	13F20-32	20	12	28.0	235

P	PB	X Inches	XL	XH
3.25	4.43	4.5	12.36	7.86
3.25	4.43	4.5	12.36	7.86

Specifications are subject to change without notice



View On-line Technical Information



Explosion Proof Motors

Automotive Duty Motors

Pump Motors

Washguard® Motors

Agricultural Motors

HVAC / Fan Motors

Special Voltage Motors

Definite Purpose Motors

Brake Motors

Washguard® Motors

IP55 AC Washguard® Gearmotors Parallel Shaft - White Epoxy Painted



Features:

- Single phase PSC designs include capacitor inside conduit box
- These gearmotors are designed for mounting at any angle, but motor below the reducer should be avoided to prevent leakage of lubricant into the motor should the motor shaft seal fail
- 304 Stainless steel external shafts
- White epoxy painted motors
- O-rings and gaskets used for sealing
- Hardened Worm-type gearing used
- Interior components protected against corrosion
- Ball bearings used in gear housing
- Sealed output shafts
- Output shafts have needle bearings for high load capacities
- UL listed and CSA certified
- **Bison/Dayton direct interchange**



P240 series AC Washdown Duty Gearmotors

Output RPM	F.L Torque (Lb.In.)	Input HP	Catalog Number	Stock	List Price	Model Number	Gearmotor Type & Frame	Ratio to 1	Voltage	Phase	F.L. Amps @ 230 V	Over-hung Load (Lbs.)
16	391	5/32	M1145138.00	✓	910	CM38P17FZ39	P240	103	115/230	1	1.05	399
40	219	5/32	M1145139.00	✓	910	CM38P17FZ40	P240	43	115/230	1	1.00	303
156	60	5/32	M1145140.00	✓	835	CM38P17FZ41	P240	10.6	115/230	1	1.00	201
16	391	1/6	M1145144.00	✓	910	CM38T17FZ20	P240	103	230	3	0.72	237
30	295	1/6	M1145145.00	✓	910	CM38T17FZ21	P240	58	230	3	0.72	237

Specifications are subject to change without notice

♥ Note listing on inside back flap



View On-line Technical Information



Washguard® Motors

IP55 AC Washguard® Gearmotors Right Angle

Features:

- Single phase PSC designs include capacitor inside conduit box
- These gearmotors are designed for mounting at any angle, but motor below the reducer should be avoided to prevent leakage of lubricant into the motor should the motor shaft seal fail
- 304 Stainless steel external shafts
- White epoxy painted motors
- O-rings and gaskets used for sealing
- Hardened Worm-type gearing used
- Interior components protected against corrosion
- Ball bearings used in gear housing
- Sealed output shafts
- Output shafts have needle bearings for high load capacities
- UL listed and CSA certified



Right Angle Series AC Washdown Duty Gearmotors

Output RPM	F.L Torque (Lb.in.)	Input HP	Catalog Number	Stock	List Price	Model Number	Gearmotor Type & Frame	Ratio to 1	Voltage	Phase	F.L. Amps @ 230 V	Over-hung Load (Lbs.)
43	113	1/6	M1145141.00	✓	764	CM38P17FZ42	Right-Angle	40	115/230	1	1.00	235
83	75	1/6	M1145142.00	✓	938	CM38P17FZ43	Right-Angle	20	115/230	1	1.00	235
340	23	1/6	M1145143.00	✓	938	CM38P17FZ44	Right-Angle	5	115/230	1	1.40	235
29	220	1/6	M1145146.00	✓	938	CM38T17FZ22	Right-Angle	60	230	3	1.30	235
172	105	1/6	M1145147.00	✓	938	CM38T17FZ23	Right-Angle	10	230	3	1.30	235

Specifications are subject to change without notice

♥ Note listing on inside back flap

View On-line Technical Information



Explosion Proof
Motors

Automotive
Duty Motors

Pump
Motors

Washguard®
Motors

Agricultural
Motors

HVAC / Fan
Motors

Special Voltage
Motors

Definite
Purpose Motors

Brake Motors

Washguard® Motors

Chemical Resistance Comparison



Chemical Name	% Concentration	Exposure	White Epoxy	Stainless Steel
Fresh Water	100	Continuous	Excellent	Excellent
Salt Water	5	Continuous	Excellent	Excellent
Salt Brine	Dilute	Continuous	Fair	Good
Ammonium Hydroxide	Dilute	Continuous	Good	Excellent
Calcium Hydroxide (Lime)	100	Intermittent	Good	Excellent
Citric Acid	10	Continuous	Good	Excellent
Ethylene Glycol	100	Continuous	Excellent	Excellent
Hydrochloric Acid	37	Intermittent	Good	Poor
Lactic Acid	Dilute	Intermittent	Excellent	Excellent
Lactic Acid	100	Intermittent	Fair	Fair
Mineral Spirits	100	Continuous	Excellent	Excellent
Potassium Hydroxide	50	Intermittent	Fair	Fair
Sodium Hydroxide	5	Continuous	Fair	Excellent
Sodium Hydroxide	20	Continuous	Fair	Excellent
Sodium Hydroxide	50	Continuous	Excellent	Excellent
Sodium Hypochlorite (Bleach)	15	Intermittent	Excellent	Excellent
Sulfuric Acid	10	Intermittent	Fair	Fair
Toluene	100	Continuous	Fair	Fair
Animal Fats	NA	Continuous	Excellent	Excellent
Mineral Oils	NA	Continuous	Excellent	Excellent
Vegetable Oils	NA	Continuous	Excellent	Excellent
Cutting Oils	NA	Continuous	Excellent	Excellent
Detergents	NA	Continuous	Excellent	Excellent
Gasoline	NA	Continuous	Fair	Fair
Hydraulic Fluid	NA	Continuous	Excellent	Excellent
Lubricating Oils	NA	Continuous	Excellent	Excellent
General Weathering	NA	Continuous	Fair	Excellent
Mold/Mildew	NA	Continuous	Excellent	Excellent
Light Abrasion	NA	Continuous	Excellent	Excellent
Heavy Abrasion	NA	Continuous	Fair	Excellent



Typical applications include food processing areas requiring frequent sanitation procedures using high pressure cleaning with concentrated caustic solutions, areas of high humidity and in chemical environments.

Features:

- Paint free exterior
- BISSC certified for the Baking Industry
- Stainless Steel Output shafts
- Repositional drain plugs for all angle mounting
- Double Sealed bearings
- Output shaft seal
- Inverter Duty IRIS™ insulation system



Stainless Frame - TENV - C Face Less Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	Notes
1/2	1800	56C	114394.00	✓	814	CZ6T17VC10	30	208-230/460	1.6	78.5	1.15	11.06	S, US, 12
3/4	1800	56C	114395.00	✓	942	CZ6T17VC11	34	208-230/460	2.3	80.0	1.15	11.56	S, US, 12
1	1800	56C	114437.00	✓	978	CZ6T17VC12	44	208-230/460	3.0	81.5	1.15	12.06	S, US, 12
	1800	143TC	121109.00	✓	978	CZ143T17VC2	40	208-230/460	3.0	81.5	1.15	12.13	S, US, 12
1 1/2	1800	56C	114581.00	✓	1,025	CZ6T17WC14	45	208-230/460	4.4	84.0	1.15	12.69	S, US, 13
	1800	145TC	G121350.00	✓	1,025	CZ145T17WC29	45	208-230/460	4.4	82.5	1.15	13.25	S, US, 13
2	1800	56C	114582.00	✓	1,164	CZ6T17WC11	51	208-230/460	5.6	84.0	1.15	13.69	S, US, 13
	1800	145TC	G121351.00	✓	1,164	CZ145T17WC30	52	208-230/460	5.6	84.0	1.15	13.75	S, US, 13

Note 12 - TENV

♥ Note listing on inside back flap

Specifications are subject to change without notice

Stainless Frame - TENV - C Face With Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	Notes
1/2	1800	56HC	114560.00	✓	823	CZ6T17VK3	34	208-230/460	1.6	78.5	1.15	11.56	S, US, 6, 12
3/4	1800	56HC	114561.00	✓	951	CZ6T17VK4	38	208-230/460	2.3	80.0	1.15	12.06	S, US, 6, 12
1	1800	56HC	114562.00	✓	988	CZ6T17VK5	45	208-230/460	2.3	81.5	1.15	12.06	S, US, 6, 12
	1800	143TC	121165.00	✓	988	CZ143T17VK2	45	208-230/460	2.3	81.5	1.15	12.13	S, US, 12
1 1/2	1800	145TC	121912.00	✓	1,134	CZ145T14KW40	47	208-230/460	4.4	86.5	1.15	13.25	S, US, 13
2	1800	145TC	121913.00	✓	1,326	CZ145T14WK41	54	208-230/460	5.6	86.5	1.25	13.75	S, US, 13

Green items are Premium Efficient

♥ Note listing on inside back flap

Note 12 - TENV

Specifications are subject to change without notice

View On-line Technical Information



Washguard® Motors

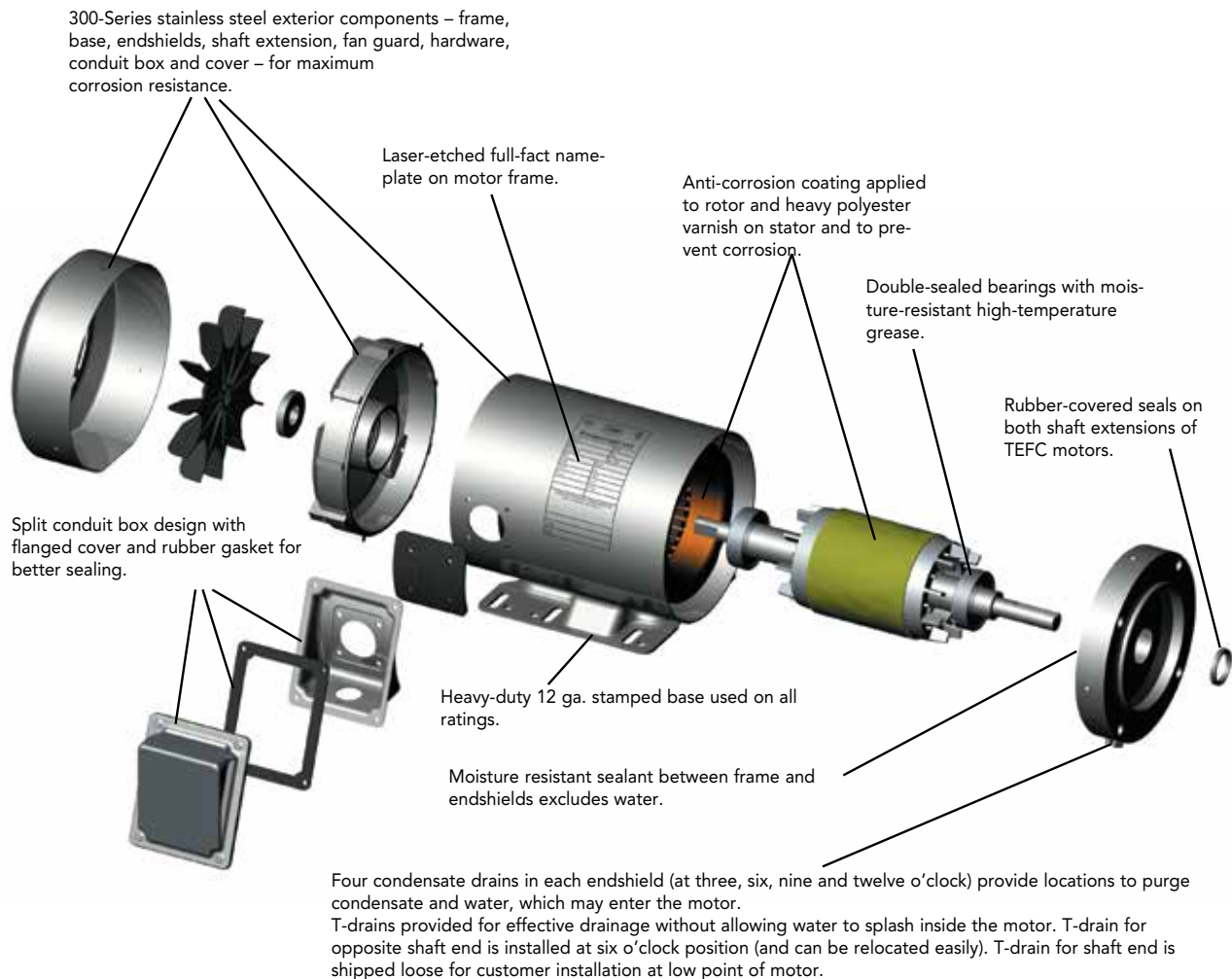
SST - All Stainless Motors

SST StainlessDuck



This member of LEESON's family of tough ducks is designed for long life in demanding washdown applications. LEESON's FHP WASHGUARD® SST All-Stainless motors are Stainless Steel Tough!

Built with all stainless steel external components to prevent corrosion and well sealed against moisture and condensation to protect internal components, the Washguard® SST all-stainless motors are able to withstand the severe washdown environments found in the food processing, chemical processing, and beverage industries.





Washguard® Motors

SST - All Stainless Motors



Single-Phase - TEFC - C Face With Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥ Notes
1/2	3600	56C	191474.00	√	673	C6C34WK18	29.5	115/208-230	3.1	11.1	1.15	11.1	S, CN
	1800	56C	191475.00	√	759	C6C17WK14	31.5	115/208-230	4.1	11.1	1.15	11.1	S, CN
3/4	3600	56C	191476.00	√	740	C6C34WK19	31.5	115/208-230	4.5	11.8	1.15	11.8	S, CN
	1800	56C	191477.00	√	876	C6C17WK15	39	115/208-230	4.9	11.8	1.15	11.8	S, CN
1	3600	56C	191478.00	√	870	C6C34WK20	39	115/208-230	6.2	12.3	1.15	12.3	S, CN
	1800	56C	191479.00	√	913	C6C17WK16	42.5	115/208-230	6.8	12.3	1.15	12.3	S, CN
1 1/2	3600	56C	191480.00	√	957	C6K34WK2	42.5	115/208-230	8.8	13.2	1.15	13.2	S, CN
	1800	56C	191481.00	√	954	C6K17WK1	52.5	115/208-230	9.5	13.2	1.15	13.2	S, CN
2	3600	145TC	191482.00	√	1235	C145K34WK2	64.5	115/208-230	10.8	14.2	1.15	14.2	S, CN
	1800	145TC	191483.00	√	1210	C145K17WK3	64.5	115/208-230	9.0	14.2	1.15	14.2	S, CN

Specifications are subject to change without notice

♥ Note listing on inside back flap

View On-line Technical Information



Explosion Proof
Motors

Automotive
Duty Motors

Pump
Motors

Washguard®
Motors

Agricultural
Motors

HVAC / Fan
Motors

Special Voltage
Motors

Definite
Purpose Motors

Brake Motors

Washguard® Motors

SST - All Stainless Motors



Three-Phase - TENV/TEFC - C Face With Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
1/3	3600	56C	191200.00	✓	667	C6T34NK26	29	208-230/460	1.0	74.0	1.15	9.78	S, CN, 12
	1800	56C	191201.00	✓	747	C6T17NK29	30	208-230/460	1.3	78.5	1.15	9.78	S, CN, 12
1/2	3600	56C	191203.00	✓	683	C6T34NK27	32	208-230/460	1.5	77.0	1.15	9.78	S, CN, 12
	1800	56C	191204.00	✓	770	C6T17NK30	33	208-230/460	1.6	81.5	1.15	9.78	S, CN, 12
	1800	56C	191949.00	✓	770	C6T17NK46	34	208-230/460	1.6	81.5	1.15	13.77	S, CN, 13
	1200	56C	191414.00	✓	837	C6T11NK4	36	208-230/460	2.0	78.5	1.15	9.76	S, CN, 12
3/4	3600	56C	191206.00	✓	750	C6T34NK28	33	208-230/460	2.0	78.5	1.15	9.78	S, CN, 12
	1800	56C	191207.00	✓	886	C6T17NK31	38	208-230/460	2.3	82.5	1.15	9.78	S, CN, 12
	1800	56C	191950.00	✓	886	C6T17NK47	39	208-230/460	2.3	82.5	1.15	13.77	S, CN, 13
	1200	56C	191415.00	✓	963	C6T11NK5	49	208-230/460	3.0	80.0	1.15	11.30	S, CN, 12
1	3600	56HC	191209.00	✓	880	C6T34FK85	41	208-230/460	2.6	80.0	1.15	13.77	S, CN, 6, 13
	3600	143TC	191486.00	✓	1,097	C143T34WK10	42	208-230/460	2.6	80.0	1.15	13.62	S, CN, 13
1	1800	56C	191291.00	✓	924	C6T17NK38	46	208-230/460	3.0	81.5	1.15	11.00	S, CN, 12
	1800	56HC	191211.00	✓	924	C6T17FK81	47	208-230/460	3.0	82.5	1.15	13.77	S, CN, 6, 13
	1800	143TC	191487.00	✓	1,152	C143T17WK14	48	208-230/460	3.0	85.5	1.15	13.62	S, CN, 13
	1200	56HC	191417.00	✓	1,008	C6T11NK6	49	208-230/460	3.8	82.5	1.15	13.10	S, CN, 13
	1200	145TC	191528.00	✓	1,012	C6T11NK6	49	208-230/460	3.8	82.5	1.15	13.20	S, CN, 13
	1 1/2	3600	56HC	191215.00	✓	970	C6T34FK86	48	208-230/460	3.8	82.5	1.15	13.77
1 1/2	3600	143TC	191488.00	✓	1,212	C143T34WK12	49	208-230/460	3.8	84.0	1.15	13.62	S, CN, 13
	1800	56HC	191217.00	✓	963	C6T17FK82	48	208-230/460	4.8	84.0	1.15	13.77	S, CN, 6, 13
	1800	145TC	191489.00	✓	1,201	C145T17WK35	49	208-230/460	4.8	86.5	1.15	13.62	S, CN, 13
	2	3600	56HC	191221.00	✓	1,075	C6T34FK87	49	208-230/460	5.0	84.0	1.15	13.77
2	3600	145TC	191490.00	✓	1,451	C145T34WK26	50	208-230/460	5.0	85.5	1.15	13.62	S, CN, 13
	1800	56HC	191223.00	✓	1,100	C6T17FK83	52	208-230/460	5.8	84.0	1.15	13.77	S, CN, 6, 13
	1800	145TC	191491.00	✓	1,425	C145T17WK37	53	208-230/460	5.8	86.5	1.15	13.62	S, CN, 13
	3	3600	145TC	191492.00	✓	1,557	C145T34WK21	62	208-230/460	7.4	86.5	1.15	14.12

Green items are Premium Efficient

♥ Note listing on inside back flap

Note 12 - TENV

Specifications are subject to change without notice



View On-line Technical Information



Washguard® Motors

SST - All Stainless Motors



Three Phase - TENV/TEFC - C Face Less Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
1/3	1800	56C	191202.00	✓	741	C6T17NC328	30	208-230/460	1.3	78.5	1.15	9.78	S, CN, 12
1/2	1800	56C	191205.00	✓	758	C6T17NC329	33	208-230/460	1.6	81.5	1.15	9.78	S, CN, 12
	1200	56C	191419.00	✓	827	C6T11NC42	35	208-230/460	2.0	78.5	1.15	9.76	S, CN, 12
3/4	1800	56C	191208.00	✓	884	C6T17NC298	38	208-230/460	2.3	82.5	1.15	9.78	S, CN, 12
	1200	56C	191420.00	✓	961	C6T11NC43	47	208-230/460	3.0	80.0	1.15	11.30	S, CN, 12
1	1800	56C	191290.00	✓	921	C6T17NC310	45	208-230/460	3.0	81.5	1.15	11.00	S, CN, 12
	1800	56C	191213.00	✓	921	C6T17FC177	47	208-230/460	3.0	82.5	1.15	13.77	S, CN, 13
	1800	143TC	G191214.00	✓	948	143T17WC12	47	208-230/460	3.0	82.5	1.15	13.62	S, CN, 13
	1200	56C	191421.00	✓	1,005	C6T11NC44	47	208-230/460	3.8	82.5	1.15	13.10	S, CN, 13
1 1/2	1800	56C	191219.00	✓	961	C6T17FC178	48	208-230/460	4.8	84.0	1.15	13.77	S, CN, 13
	1800	145TC	G191220.00	✓	989	C145T17WC37	48	208-230/460	4.8	84.0	1.15	13.62	S, CN, 13
2	1800	56C	191225.00	✓	1,094	C6T17FC179	52	208-230/460	5.8	84.0	1.15	13.77	S, CN, 13
	1800	145TC	G191226.00	✓	1,128	145T17WC38	52	208-230/460	5.8	84.0	1.15	13.62	S, CN, 13
3	1800	145TC	G191542.00	✓	1,241	C145T34WC8	60	208-230/460	7.4	85.5	1.15	14.12	S, CN, 13

Note 12 - TENV

♥ Note listing on inside back flap

Specifications are subject to change without notice

View On-line Technical Information



Explosion Proof
Motors

Automotive
Duty Motors

Pump
Motors

Washguard®
Motors

Agricultural
Motors

HVAC / Fan
Motors

Special Voltage
Motors

Definite
Purpose Motors

Brake Motors

Washguard® Motors

Premium - All Stainless Motors Single Phase & Three Phase



General Specifications:

Designed specifically to meet the demanding sanitation requirements of the pharmaceutical, food processing and beverage industries. These motors are also ideal in clean room and severe chemical-processing applications involving frequent washdown with nitric acid and caustic lye. In fact, WASHGUARD All-Stainless Motors include IEEE 841 severe-duty features right out of the box! Motors have been tested to and passed the IEC IP-56 test requirements.

Mechanical Protection Features:

- All exterior components are 300-series stainless steel
- Nothing on the motor's exterior is painted or coated in any way
- All sealing components are Viton® for superior chemical resistance
- Full fact nameplate is laser etched on the motor frame – no separately attached nameplate to trap dirt or contaminants
- Endshields are O-ring sealed to the frame
- Double lip shaft seals on both ends of TEFC motors (shaft end only on TENV motors)
- Removable hydrophobic breathers in opposite shaft endbell and conduit box equalize pressure without allowing moisture to enter
- Exterior fastener use minimized reducing the number of entry points for moisture. There are no holes in the frame for attaching a nameplate. Bearing lock screws are located inside the motor and the conduit box mounted screws have been eliminated
- Double-sealed bearings are pre-lubricated with moisture-resistant high-temperature grease for long life
- Interior coatings applied to rotor and stator protect against corrosion
- New conduit box mounting system provides optimum sealing
- Ease to clean construction is BISSC Certified for bakery applications

Electrical Performance and Protection Features:

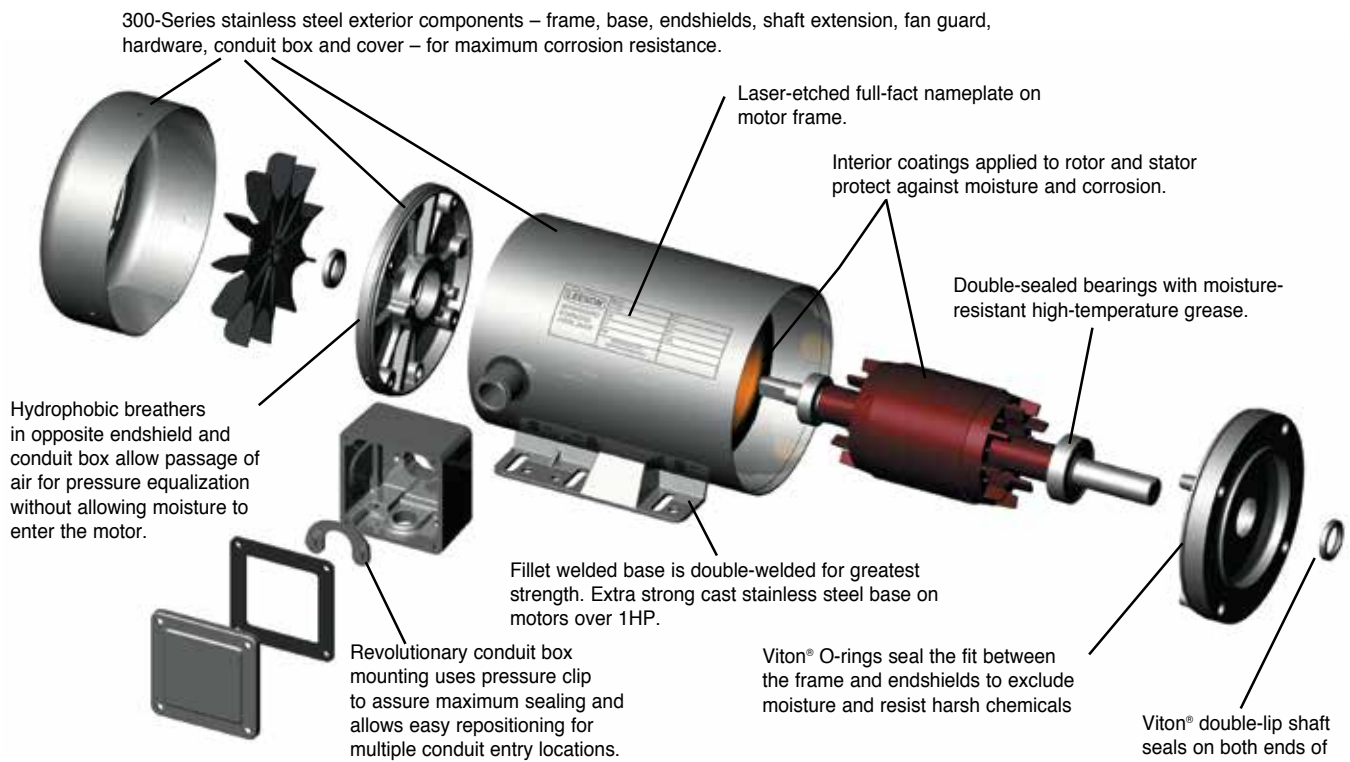
- WASHGUARD efficiencies meet EPA mandates for non-exempt motors when tested without shaft seals.
- Windings are immersed and cured in polyester insulating varnish for extra moisture-resistance
- LEESON's exclusive IRIS™ Inverter-Rated Insulation System provides extra protection and long life, especially in inverter-driven applications
- Single-phase motors use Solid State Sinpac® switch – no mechanical switch contacts to corrode and fail.
- All Washdown Duty motors have Class F Insulation

Standards and Approvals:

- Single and three phase motors are UL component recognized – file number E57948, guide number PRGY2.
- CSA Energy Efficiency Verification Program, report number EEV 78720-1
- Construction is CSA Certified for safety report number LR33543 and listed under BISSC authorization number 769

Washguard® Motors
Premium - All Stainless Motors
Single-Phase & Three-Phase

Premium Stainless Duck



Explosion Proof
Motors

Automotive
Duty Motors

Pump
Motors

Washguard®
Motors

Agricultural
Motors

HVAC / Fan
Motors

Special Voltage
Motors

Definite
Purpose Motors

Brake Motors



Washguard® Motors

Premium - All-Stainless Motors



Three Phase - TENV/TEFC - C Face With Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
1/2	3600	56HC	117269.00	✓	1,328	CZ6T34VK19	35	208-230/460	1.6	82.5	1.15	10.47	S, US, 12
	1800	S56C	103387.00	✓	1,332	CZ4T17VK2	31	208-230/460	1.8	76.0	1.15	11.49	S, US, 12
	1800	56HC	117266.00	✓	1,424	CZ6T17VK46	35	208-230/460	1.6	78.5	1.15	11.22	S, US, 12
	1800	56HC	117762.00	✓	1,424	CZ6T17VK52	36	208-230/460	1.8	78.5	1.15	13.13	S, US, 13
	1200	56HC	117275.00	✓	1,775	CZ6T11VK5	35	208-230/460	2.3	77.0	1.15	11.47	S, US, 12
3/4	3600	56HC	117271.00	✓	1,376	CZ6T34VK20	40	208-230/460	2.4	84.0	1.15	10.97	S, US, 12
	1800	S56C	103388.00	✓	1,382	CZ4T17WK1	28	208-230/460	2.4	77.0	1.15	12.50	S, US, 13
	1800	56HC	117267.00	✓	1,477	CZ6T17VK47	41	208-230/460	2.3	80.0	1.15	11.72	S, US, 12
	1200	56HC	117276.00	✓	1,834	CZ6T11VK6	46	208-230/460	3.0	78.5	1.15	13.22	S, US, 12
1	3600	56HC	117273.00	✓	1,505	CZ6T34VK21	43	208-230/460	2.6	85.5	1.15	13.04	S, US, 12
	1800	56HC	115635.00	✓	1,511	CZ6T17VK8	44	208-230/460	3.0	81.5	1.15	13.54	S, US, 6, 12
	1800	56HC	117286.00	✓	1,554	CZ6T17WK28	39	208-230/460	3.1	82.5	1.15	11.19	S, US, 13
	1800	143TC	121795.00	✓	1,511	CZ143T17VK8	44	208-230/460	3.0	81.5	1.15	13.02	S, US, 12
	1800	143TC	121873.00	✓	1,787	CZ143T17WK12	50	208-230/460	3.2	85.5	1.15	12.00	S, US, 13
	1200	56HC	117277.00	✓	1,879	CZ6T11WK7	48	208-230/460	4.0	77.0	1.15	11.94	S, US, 13
1 1/2	3600	143TC	121874.00	✓	1,801	CZ143T34WK7	45	208-230/460	4.0	84.0	1.15	11.75	S, US, 13
	1800	56HC	117284.00	✓	1,589	CZ6T17WK26	49	208-230/460	4.4	84.0	1.15	11.94	S, US, 13
	1800	145TC	121875.00	✓	1,828	CZ145T17WK32	49	208-230/460	4.8	86.5	1.15	12.75	S, US, 13
	1200	56HC	117278.00	✓	1,954	CZ6T11WK8	51	208-230/460	5.4	80.0	1.15	13.19	S, US, 13
2	3600	145TC	121876.00	✓	2,138	CZ145T34WK18	49	208-230/460	4.8	85.5	1.25	12.75	S, US, 13
	1800	56HC	117285.00	✓	1,879	CZ6T17WK27	50	208-230/460	5.6	84.0	1.15	12.69	S, US, 13
3	1800	145TC	121877.00	✓	2,161	CZ145T17WK33	50	208-230/460	5.8	86.5	1.25	13.25	S, US, 13
	3600	145TC	121878.00	✓	2,573	CZ145T34WK27	53	208-230/460	8.0	86.5	1.15	13.69	S, US, 13
5	1800	182TC	132206.00	✓	2,714	C185T17WK14	85	208-230/460	7.8	89.5	1.15	14.77	S, MX, 13
	3600	184TC	132207.00	✓	3,076	C184T34WK11	90	208-230/460	12.0	88.5	1.25	15.27	S, MX, 13
7 1/2	1800	184TC	132208.00	✓	3,010	C184T17WK16	96	208-230/460	12.6	89.5	1.15	15.77	S, MX, 13
	3600	213TC	140825.00	✓	4,281	C213T34WK4	160	208-230/460	17.8	89.5	1.15	18.69	S, MX, 13
10	1800	213TC	140826.00	✓	4,833	C213T17WK10	160	208-230/460	21.6	91.7	1.15	18.69	S, MX, 13
	3600	215TC	140827.00	✓	4,402	C215T34WK11	165	208-230/460	23.6	90.2	1.15	18.69	S, MX, 13
	1800	215TC	140828.00	✓	4,978	C215T17WK10	173	208-230/460	26.8	91.7	1.15	18.69	S, MX, 13

Green items are Premium Efficient

♥ Note listing on inside back flap

Note 12 - TENV

Specifications are subject to change without notice



View On-line Technical Information





Three Phase - TENV/TEFC - C Face Less Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
1/3	1800	48C	103393.00	✓	1,127	CZ4T17VC7	25	208-230/460	1.3	70.5	1.15	9.83	S, US, 12
1/2	3600	56C	117279.00	✓	1,304	CZ6T34VC22	35	208-230/460	1.6	82.5	1.15	10.47	S, US, 12
	1800	48C	103394.00	✓	1,151	CZ4T17VC3	27	208-230/460	1.8	76.0	1.15	11.58	S, US, 12
	1800	S56C	103389.00	✓	1,316	CZ4T17VC4	30	208-230/460	1.8	76.0	1.15	11.49	S, US, 12
	1800	56C	117270.00	✓	1,395	CZ6T17VC56	34	208-230/460	1.6	78.5	1.15	11.22	S, US, 12
3/4	3600	56C	117280.00	✓	1,349	CZ6T34VC23	40	208-230/460	2.4	84.0	1.15	10.97	S, US, 12
	1800	S56C	103390.00	✓	1,347	CZ4T17WC1	33	208-230/460	2.4	77.0	1.15	12.50	S, US, 13
	1800	56C	117272.00	✓	1,440	CZ6T17VC57	40	208-230/460	2.3	80.0	1.15	11.72	S, US, 12
1	3600	56C	117281.00	✓	1,478	CZ6T34VC24	43	208-230/460	2.6	85.5	1.15	12.22	S, US, 12
	1800	56C	117274.00	✓	1,487	CZ6T17VC58	44	208-230/460	3.0	81.5	1.15	12.72	S, US, 12
	1800	56HC	117287.00	✓	1,487	CZ6T17WC30	45	208-230/460	3.1	82.5	1.15	11.19	S, US, 13
	1800	143TC	121796.00	✓	1,487	CZ143T17VC9	44	208-230/460	3.0	81.5	1.15	13.02	S, US, 12
	1800	143TC	G121659.00	✓	1,487	CZ143T17WC13	51	208-230/460	3.1	82.5	1.15	11.25	S, US, 13
1 1/2	3600	143TC	G121560.00	✓	1,488	CZ143T34WC7	52	208-230/460	4.0	82.5	1.15	11.25	S, US, 13
	1800	56C	117282.00	✓	1,516	CZ6T17WC28	49	208-230/460	4.4	84.0	1.15	11.94	S, US, 13
	1800	145TC	G121525.00	✓	1,516	CZ145T17WC39	55	208-230/460	4.4	84.0	1.15	12.50	S, US, 13
2	3600	145TC	G121561.00	✓	1,826	CZ145T34WC20	54	208-230/460	5.2	84.0	1.15	12.50	S, US, 13
	1800	56C	117283.00	✓	1,839	CZ6T17WC29	49	208-230/460	5.6	84.0	1.15	12.69	S, US, 13
	1800	145TC	G121527.00	✓	1,839	CZ145T17WC40	60	208-230/460	5.6	84.0	1.15	12.75	S, US, 13
3	3600	145TC	G121562.00	✓	2,196	CZ145T34WC21	55	208-230/460	7.6	85.5	1.15	12.75	S, US, 13
	1800	182TC	G131923.00	✓	2,212	C182T17WC10	88	208-230/460	8.6	87.5	1.15	14.77	S, MX, 13
5	3600	184TC	G131949.00	✓	2,507	C184T34WC8	98	208-230/460	12.0	87.5	1.15	14.77	S, MX, 13
	1800	184TC	G131924.00	✓	2,524	C184T17WC9	102	208-230/460	13.0	87.5	1.15	15.27	S, MX, 13

Note 12 - TENV

♥ Note listing on inside back flap

Specifications are subject to change without notice

Explosion Proof Motors

Automotive Duty Motors

Pump Motors

Washguard® Motors

Agricultural Motors

HVAC / Fan Motors

Special Voltage Motors

Definite Purpose Motors

Brake Motors

View On-line Technical Information



Washguard® Motors

Premium Stainless and Encapsulated Stainless Motors with Shaft Grounding Rings (SGRs)



General Specifications:
Same design features as our standard Premium Stainless and Extreme Duck motors only having a built-in Shaft Grounding Ring that are designed to protect motors that are used in applications that are using AC inverters to control the speed of the motors. They eliminate the stray voltages that may damage the motor’s bearings.

Premium Washguard® All-Stainless Motors With Shaft Grounding Rings (SGRs)

Three Phase • Standard, EPAct & NEMA Premium Ratings
Three-Phase • TENV/TEFC • C Face With Base

	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
1/2	1800	56HC	117901.00	✓	1,516	CZ6T17VK53	35	208-230/460	1.6	78.5	1.15	12.54	S, US, 12
3/4	1800	56HC	117902.00	✓	1,567	CZ6T17VK54	41	208-230/460	2.3	80.0	1.15	13.04	S, US, 12
1	1800	56HC	117903.00	✓	1,641	CZ6T17WK38	39	208-230/460	3.1	82.5	1.15	13.13	S, US, 12
	1800	143TC	122029.00	✓	1,600	CZ143T17VK10	44	208-230/460	3.0	81.5	1.15	13.61	S, US, 12
1 1/2	1800	56HC	117904.00	✓	1,675	CZ6T17WK40	49	208-230/460	4.4	84.0	1.15	13.63	S, US, 13
	1800	145TC	122030.00	✓	1,906	CZ145T17WK52	49	208-230/460	4.4	86.5	1.15	13.69	S, US, 13
2	1800	56HC	117905.00	✓	1,956	CZ6T17WK39	50	208-230/460	5.6	84.0	1.15	13.63	S, US, 13
	1800	145TC	122031.00	✓	2,228	CZ145T17WK53	50	208-230/460	5.6	86.5	1.25	13.69	S, US, 13

Green items are Premium Efficient

♥ Note listing on inside back flap

Note 12 - TENV
Specifications are subject to change without notice



View On-line Technical Information





Single Phase - TENV/TEFC - C Face With Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
1/3	1800	56HC	116343.00	✓	1,490	NZ6C17VK1	35	115/208-230	2.7	1.15	12.20	S, US, 6, 12
1/2	3600	56HC	116344.00	✓	1,474	NZ6C34VK2	38	115/208-230	3.8	1.15	12.20	S, US, 6, 12
	1800	56HC	116345.00	✓	1,511	NZ6C17VK2	38	115/208-230	3.3	1.15	12.70	S, US, 6, 12
3/4	1800	56HC	116346.00	✓	1,597	NZ6K17VK2	42	115/208-230	3.8	1.15	12.70	S, US, 6, 12
1	3600	56HC	116347.00	✓	1,672	NZ6C34VK1	49	115/208-230	6.0	1.15	13.70	S, US, 6, 12
	1800	56HC	116348.00	✓	1,661	NZ6K17VK1	49	115/208-230	4.5	1.15	13.70	S, US, 6, 12
1 1/2	3600	56HC	116482.00	✓	1,752	CZ6K34WK1	49	115/208-230	6.8	1.15	13.81	S, US, 13
	1800	145TC	121622.00	✓	1,726	CZ145K17WK2	53	115/208-230	7.4	1.15	14.81	S, US, 13
2	3600	145TC	121623.00	C/A	1,913	CZ145K34WK1	57	115/208-230	8.8	1.15	14.81	S, US, 13
	1800	145TC	121632.00	C/A	1,991	CZ145K17WK1	57	115/208-230	10.0	1.15	14.81	S, US, 13

Note 12 - TENV

♥ Note listing on inside back flap

Specifications are subject to change without notice

Single Phase - TENV/TEFC - C Face Less Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
1/3	1800	56C	116349.00	✓	1,458	NZ6C17VC1	35	115/208-230	2.7	1.15	11.70	S, US, 12
1/2	1800	56C	116350.00	✓	1,486	NZ6C17VC2	38	115/208-230	3.3	1.15	12.70	S, US, 12
3/4	1800	56C	116351.00	✓	1,565	CZ6K17VC2	42	115/208-230	3.8	1.15	12.70	S, US, 12
1	1800	56C	116352.00	✓	1,620	CZ6K17VC1	49	115/208-230	4.5	1.15	13.70	S, US, 12
1 1/2	1800	145TC	121624.00	✓	1,646	CZ145K17WC2	53	115/208-230	7.4	1.15	14.87	S, US, 13
2	1800	145TC	121633.00	C/A	1,893	CZ145K17WC1	57	115/208-230	10.0	1.15	14.87	S, US, 13

Note 12 - TENV

♥ Note listing on inside back flap

Specifications are subject to change without notice

View On-line Technical Information



Washguard® Motors

Stainless Steel Brakemotors & JM Pump Motors



Three Phase - TENV - C Face With Base

HP	SYN RPM 60 Hz	NEMA Frame	Brake Rating (ft-lbs)	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
1/2	1800	56C	3	116483.00	✓	5,207	CZ6T17VK31	59	208-230/460	1.6	78.5	1.15	15.85	S, US, 12
1	1800	56C	6	116484.00	✓	5,486	CZ6T17VK32	69	208-230/460	3.0	81.5	1.15	15.85	S, US, 12

Specifications are subject to change without notice

♥ Note listing on inside back flap

Stainless Steel JM Pump Motors



Three Phase - TEFC - JM Pump - C Face With Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
1	1800	143JM	G121626.00	✓	1,547	CZ143T17WK18	55	208-230/460	3.0	82.5	1.15	16.00	S, US
1 1/2	3600	143JM	G121627.00	✓	1,548	CZ143T34WK11	55	208-230/460	4.0	82.4	1.15	16.00	S, US
	1800	145JM	G121628.00	✓	1,579	CZ145T17WK45	56	208-230/460	4.4	84.0	1.15	16.00	S, US
2	3600	145JM	G121629.00	✓	1,839	CZ145T34WK24	56	208-230/460	5.2	84.0	1.15	16.00	S, US
	1800	145JM	G121630.00	✓	1,859	CZ145T17WK46	57	208-230/460	5.6	84.0	1.15	16.50	S, US
3	3600	145JM	G121631.00	✓	2,211	CZ145T34WK25	57	208-230/460	7.6	85.5	1.15	16.50	S, US
	1800	182JM	G131996.00	✓	2,339	C182T17WK16	85	208-230/460	8.2	87.5	1.15	16.20	S, MX
5	3600	184JM	G131997.00	✓	2,579	C184T34WK14	90	208-230/460	12.0	87.5	1.15	16.20	S, MX
	1800	184JM	G131998.00	✓	2,594	C184T17WK18	96	208-230/460	13.0	87.5	1.15	16.77	S, MX
7 1/2	3600	213JM	G140740.00	✓	3,929	C213T34WK5	160	208-230/460	18.4	88.5	1.15	16.81	S, MX
	1800	213JM	G140741.00	✓	4,014	C213T17WK14	162	208-230/460	20.4	89.5	1.15	19.81	S, MX
10	3600	215JM	G140742.00	✓	4,066	C215T34WK12	165	208-230/460	24.0	89.5	1.15	19.81	S, MX
	1800	215JM	G140743.00	✓	4,140	C215T17WK13	173	208-230/460	26.0	89.5	1.15	19.81	S, MX

Specifications are subject to change without notice

♥ Note listing on inside back flap



View On-line Technical Information

Washguard® Motors

IEC Washguard All-Stainless AC Motors



IEC B5 Flange - Round Body - Three Phase - TENV/TEFC - C Face Less Base

HP / kW	SYN RPM 60 Hz	IEC Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥ Notes
1/3-0.25	1800	71	103403.00	✓	1,377	CZ4T17VZ16	30	208-230/460	1.3	70.5	1.15	9.87	S, US, 12
	1800	80	103405.00	✓	1,377	CZ4T17VZ17	30	208-230/460	1.3	70.5	1.15	9.87	S, US, 12
1/2-0.37	1800	71	103404.00	✓	1,424	CZ4T17VZ6	32	208-230/460	1.6	76.0	1.15	11.62	S, US, 12
	1800	80	103406.00	✓	1,424	CZ4T17VZ7	32	208-230/460	1.6	76.0	1.15	11.62	S, US, 12
3/4-0.55	1800	80	103407.00	✓	1,509	CZ4T17WZ9	38	208-230/460	2.3	77.0	1.15	12.26	S, US, 13
1- 0.75	1800	90	117516.00	✓	1,604	CZ6T17WC44	45	208-230/460	3.1	82.5	1.15	13.13	S, US, 13
1.5 - 1.1	1800	90	117517.00	✓	1,692	CZ6T17WC46	49	208-230/460	4.4	84.0	1.15	13.63	S, US, 13
2 - 1.5	1800	90	117518.00	✓	1,879	CZ6T17WC45	49	208-230/460	5.6	84.0	1.15	13.63	S, US, 13

Note 12 - TENV

Specifications are subject to change without notice

♥ Note listing on inside back flap

IEC B14 Flange - Round Body - Three Phase - Totally Enclosed - B14 Flange Less Base

HP / kW	SYN RPM 60 Hz	IEC Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥ Notes
1/3-0.25	1800	71	103395.00	✓	1,377	CZ4T17VZ13	30	208-230/460	1.3	70.5	1.15	9.83	S, US, 12
	1800	80	103397.00	✓	1,377	CZ4T17VZ14	30	208-230/460	1.3	70.5	1.15	9.72	S, US, 12
1/2-0.37	1800	71	103396.00	✓	1,424	CZ4T17VZ3	32	208-230/460	1.6	76.0	1.15	11.58	S, US, 12
	1800	80	103398.00	✓	1,424	CZ4T17VZ4	32	208-230/460	1.6	76.0	1.15	11.58	S, US, 12
3/4-0.55	1800	80	103399.00	✓	1,509	CZ4T17WZ7	38	208-230/460	2.3	77.0	1.15	12.48	S, US, 13

Note 12 - TENV

Specifications are subject to change without notice

♥ Note listing on inside back flap

IEC B5 Flange - Rigid Base - Three Phase - Totally Enclosed - B5 Flange With Base

HP / kW	SYN RPM 60 Hz	IEC Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥ Notes
1/3-0.25	1800	80	103408.00	✓	1,400	CZ4T17VZ18	30	208-230/460	1.3	70.5	1.15	9.50	S, US, 12
1/2-0.37	1800	80	103409.00	✓	1,444	CZ4T17VZ8	32	208-230/460	1.6	76.0	1.15	12.75	S, US, 12
3/4-0.55	1800	80	103410.00	✓	1,539	CZ4T17WZ10	38	208-230/460	2.3	77.0	1.15	12.26	S, US, 13

Note 12 - TENV

Specifications are subject to change without notice

♥ Note listing on inside back flap

IEC B14 Flange - Rigid Base - Three Phase - Totally Enclosed - B14 Flange With Base

HP / kW	SYN RPM 60 Hz	IEC Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥ Notes
1/3-0.25	1800	80	103400.00	✓	1,424	CZ4T17VZ15	31	208-230/460	1.3	70.5	1.15	9.72	S, US, 12
1/2-0.37	1800	80	103401.00	✓	1,573	CZ4T17VZ5	33	208-230/460	1.6	76.0	1.15	11.58	S, US, 12
3/4-0.55	1800	80	103402.00	✓	1,629	CZ4T17WZ8	39	208-230/460	2.3	77.0	1.15	12.48	S, US, 13

Note 12 - TENV

Specifications are subject to change without notice

♥ Note listing on inside back flap

View On-line Technical Information



Explosion Proof Motors

Automotive Duty Motors

Pump Motors

Washguard® Motors

Agricultural Motors

HVAC / Fan Motors

Special Voltage Motors

Define Purpose Motors

Brake Motors

Washguard® Motors**NEMA and IEC Washguard®****All-Stainless DC Motors - SCR Rated****TEFC - SCR Rated 90 & 180V - NEMA - C Face With Base**

HP	Full Load RPM	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Arm. Volts DC	Control Volts AC Input	F. L. Amps DC	"C" Dim. (Inches)	♥Notes
1/4	1750	S56C	109065.00	✓	1,344	4D17VK24	38	90	115	3.1	11.81	S, US, 12
1/3	1750	S56C	109066.00	✓	1,421	4D17VK25	44	90	115	3.8	12.81	S, US, 12
	1750	S56C	109067.00	✓	1,421	4D17VK26	44	180	230	1.9	12.81	S, US, 12
1/2	1750	S56C	109069.00	✓	1,660	4D17WK9	46	90	115	5.2	13.87	S, US, 13
	1750	S56C	109070.00	✓	1,660	4D17WK10	46	180	230	2.7	13.87	S, US, 13
3/4	1750	S56C	109072.00	✓	2,021	4D17WK13	47	90	115	7.5	15.37	S, US, 13
	1750	S56C	109073.00	✓	2,021	4D17WK14	48	180	230	3.7	15.37	S, US, 13
1	1750	S56C	109075.00	✓	2,345	4D17WK16	51	90	115	9.5	16.37	S, US, 13
	1750	S56C	109076.00	✓	2,345	4D17WK17	50	180	230	5.0	16.37	S, US, 13

Base is welded to frame and not removable

♥ Note listing on inside back flap

Note 12 - TENV

Specifications are subject to change without notice

**TEFC - SCR Rated 90 & 180V • NEMA - C Face Less Base**

HP	Full Load RPM	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Arm. Volts DC	Control Volts AC Input	F. L. Amps DC	"C" Dim. (Inches)	♥Notes
1/4	1750	S56C	109078.00	✓	1,312	4D17VC5	38	90	115	3.1	11.81	S, US, 12
1/3	1750	S56C	109079.00	✓	1,389	4D17VC6	44	90	115	3.8	12.81	S, US, 13
	1750	S56C	109080.00	✓	1,389	4D17VC7	44	180	230	1.9	12.81	S, US, 13
1/2	1750	S56C	109082.00	✓	1,629	4D17WC2	46	90	115	5.2	13.87	S, US, 13
	1750	S56C	109083.00	✓	1,629	4D17WC3	46	180	230	2.7	13.87	S, US, 13
3/4	1750	S56C	109085.00	✓	1,990	4D17WC5	47	90	115	7.5	15.37	S, US, 13
	1750	S56C	109086.00	✓	1,990	4D17WC6	48	180	230	3.7	15.37	S, US, 13
1	1750	S56C	109088.00	✓	2,315	4D17WC8	51	90	115	9.5	16.37	S, US, 13
	1750	S56C	109089.00	✓	2,315	4D17WC9	50	180	230	5.0	16.37	S, US, 13

Note 12 - TENV

♥ Note listing on inside back flap

Specifications are subject to change without notice



View On-line Technical Information





Washguard® Motors

Metric (IEC) Frame PMDC Motors

All-Stainless DC Motors - SCR Rated

TEFC - SCR Rated 90 & 180V - C Face With Base

HP/kW	Full Load RPM	IEC Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Arm. Volts DC	Control Volts AC Input	F. L. Amps DC	"C" Dim. (Inches)	♥Notes
1/3 - 0.25	1750	80D	109068.00	✓	1,421	4D17VK27	44	180	230	1.9	12.81	S, US, 12
1/2 - 0.37	1750	80D	109071.00	✓	1,660	4D17WK11	46	180	230	2.7	13.87	S, US, 13
3/4 - 0.55	1750	80D	109074.00	✓	2,021	4D17WK15	48	180	230	3.7	15.37	S, US, 13
1 - 0.75	1750	80D	109077.00	✓	2,345	4D17WK18	50	180	230	5.0	16.37	S, US, 13

Note 12 - TENV

Base is welded to frame and not removable

Specifications are subject to change without notice

♥ Note listing on inside back flap

TEFC - SCR Rated 90 & 180V - Metric (IEC) - All-Stainless Steel - C Face Less Base

HP/kW	Full Load RPM	IEC Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Arm. Volts DC	Control Volts AC Input	F. L. Amps DC	"C" Dim. (Inches)	♥Notes
1/3 - 0.25	1750	80D	109081.00	✓	1,389	4D17VC8	44	180	230	1.9	12.81	S, US, 12
1/2 - 0.37	1750	80D	109084.00	✓	1,629	4D17WC4	46	180	230	2.7	13.87	S, US, 13
3/4 - 0.55	1750	80D	109087.00	✓	1,990	4D17WC7	48	180	230	3.7	15.37	S, US, 13
1 - 0.75	1750	80D	109090.00	✓	2,315	4D17WC10	50	180	230	5.0	16.37	S, US, 13

Note 12 - TENV

Specifications are subject to change without notice

Base is welded to frame and not removable

♥ Note listing on inside back flap

Flange And Face Kits For DC Metric (IEC) Frame Motors

The modular design concept of LEESON's other metric DC motors has been applied to the all-stainless metric motors. Any flange or face kit can mount on any motor. This allows the greatest flexibility from the smallest inventory of motors.

B5 Flange Kits (For Stainless DC Metric Motors)

IEC Frame	Catalog Number	List Price	App. Wgt. (lbs)	BD Flange Dia. (mm)	AK Register (mm)	BF Hole (mm)	AJ Bolt Circle (mm)
71	175593.00	179	2	160	110	9	130
80	175594.00	216	3	200	130	12	165
90S/90L	175594.00	216	3	200	130	12	165
100L/112M	175595.00	337	5	250	180	15	215

Specifications are subject to change without notice

♥ Note listing on inside back flap

B14 Flange Kits (For Stainless DC Metric Motors)

IEC Frame	Catalog Number	List Price	App. Wgt. (lbs)	BD Flange Dia. (mm)	AK Register (mm)	BF Hole (mm)	AJ Bolt Circle (mm)
71	175596.00	136	1	105	70	6	85
80	175597.00	136	1	120	80	6	100
90S/90L	175598.00	371	1	140	95	6	115
100L/112M	175599.00	337	2	160	110	6	130

Specifications are subject to change without notice

♥ Note listing on inside back flap

View On-line Technical Information



Explosion Proof Motors

Automotive Duty Motors

Pump Motors

Washguard® Motors

Agricultural Motors

HVAC / Fan Motors

Special Voltage Motors

Define Purpose Motors

Brake Motors

Explosion Proof Motors
Automotive Duty Motors
Pump Motors
Washguard® Motors
Agricultural Duty Motors
HVAC / Fan Motors
Special Voltage Motors
Definite Purpose Motors
Brake Motors

Washguard® Motors

Extreme Duck Washguard® All-Stainless Motors Three Phase - Standard, EPAct & NEMA Premium Ratings



General Specifications: These Revolutionary Designed Stainless Steel Motors are built using our "Voice of the customer" design criteria to withstand extreme washdown and sanitation requirements of the food processing, pharmaceutical, packaging and beverage industries. Our Innovative Hydro Sealed System "HS²™" protects from the "outside-in" by reducing entrance points of contaminants and eliminates the need for drain plugs and breathers. This proven process also minimizes exterior hardware, which may trap application elements. Our unique Rotor/Cartridge Seal System, "Q-CAR™" gives quick access to the interior of the motor should the need arise. 300-Series Stainless Steel used on all exterior surfaces gives ideal protection against severe chemical-processing applications and frequent washdown processes using Salt water, Nitric Acids and Solvents.

Mechanical Protection Features:

- All exterior components are 300-Series stainless steel
- Protech Bearing isolator used for the output shaft seal
- Double Lip Viton shaft seal used on non-drive output shaft on TEFC motors
- Minimal exterior fasteners due to no through-bolt design and screw on conduit box covers reduces surface areas that may trap contaminants
- Double-sealed bearings are pre-lubricated with moisture resistant, high temperature grease for long life
- Rotor/Cartridge, "Q-CAR™," design for quick access to motor interior (patent pending).
- O-ring sealed openings on conduit box covers and Rotor/Cartridge cover
- Rigid Cast Base for rugged applications
- Conduit box lead hole location rotatable on TEFC designs
- Full fact nameplate is laser etched to the motor frame making frame surface smooth, which eliminates areas that trap contaminants
- Ease of clean construction is BISSC certified for bakery applications and motors meet Pharmaceutical Duty specifications
- IP 66 Enclosure protection

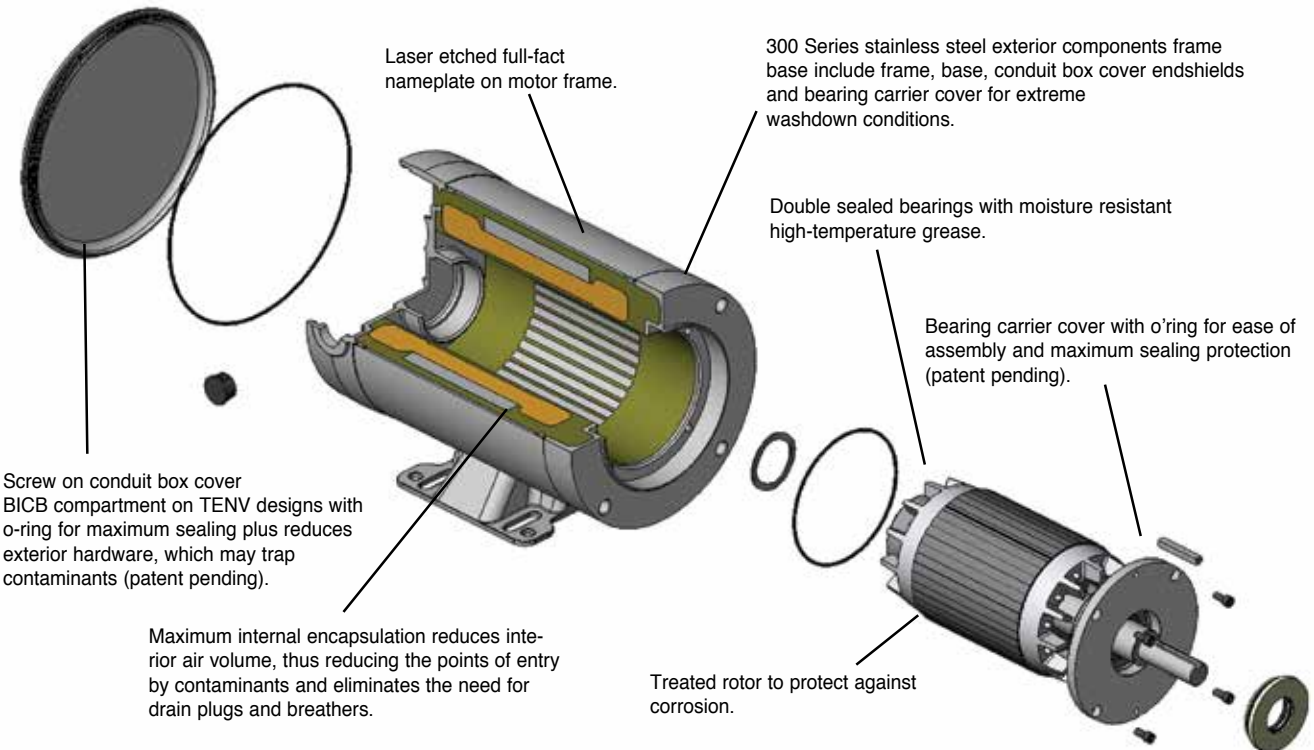
Electrical Performance and Protection Features:

- Motors meet EPAct mandates for non-exempt motors when tested without shaft seals
- Total winding encapsulation using an Epoxy Resin
- LEESON's exclusive IRIS™ Inverter-Rated Insulation System provides extra protection and long life, especially when used in applications driven by an Inverter
- 3 year warranty
- 10:1 constant torque operation

Standards and Approvals

- Motors are UL component recognized – file number E57948, guide number PRGY2
- CSA Energy Efficiency Verification Program, report number EEV 78720-1
- Construction is CSA Certified for safety, report number LR33543 and listed under BISSC authorization number 769

ExtremeDuck

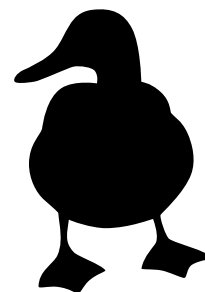


Coming Soon

The all new **Extreme**. It's not your average duck.

- **Extreme** Sealing
- **Extreme** Durability
- **Extreme** Confidence

The new Extreme Duck.



Washguard® Motors

Extreme Duck Washguard® All-Stainless Motors

Three Phase - Standard, EPAct & NEMA Premium Ratings

Three Phase - Totally Enclosed - C Face With Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
1/2	3600	56C	117118.00	✓	1,488	CZ6T34VK16	39	208-230/460	1.6	82.5	1.15	10.47	S, US, 12
	1800	S56C	103411.00	✓	1,471	CZ4T17VK1	33	208-230/460	1.6	76.0	1.15	11.49	S, US, 12
	1800	56C	117119.00	✓	1,565	CZ6T17VK43	40	208-230/460	1.6	78.5	1.15	10.72	S, US, 12
3/4	3600	56C	117120.00	✓	1,539	CZ6T34VK17	46	208-230/460	2.4	84.0	1.15	10.47	S, US, 12
	1800	S56C	103412.00	✓	1,565	CZ4T17WK2	39	208-230/460	2.3	77.0	1.15	12.50	S, US, 13
	1800	56C	117121.00	✓	1,625	CZ6T17VK44	47	208-230/460	2.3	80.0	1.15	11.22	S, US, 12
1	3600	56C	117122.00	✓	1,653	CZ6T34VK18	48	208-230/460	2.6	85.5	1.15	10.97	S, US, 12
	1800	56C	117123.00	✓	1,663	CZ6T17VK45	50	208-230/460	3.0	81.5	1.15	11.97	S, US, 12
1 1/2	3600	143TC	121879.00	✓	1,876	CZ143T34WK8	54	208-230/460	4.0	84.0	1.15	11.75	S, US, 13
	3600	143TC	G121748.00	✓	1,755	CZ143T34WK4	54	208-230/460	4.0	82.5	1.15	11.00	S, US, 13
	1800	56C	117296.00	✓	1,748	CZ6T17WK30	56	208-230/460	4.4	84.0	1.15	11.69	S, US, 13
	1800	145TC	121880.00	✓	1,870	CZ143T17WK13	56	208-230/460	4.4	86.5	1.15	12.75	S, US, 13
	1800	145TC	G121749.00	✓	1,748	CZ143T17WK8	56	208-230/460	4.4	84.0	1.15	11.25	S, US, 13
2	3600	145TC	121881.00	✓	2,168	CZ145T34WK19	56	208-230/460	5.2	85.5	1.15	12.75	S, US, 13
	3600	145TC	G121739.00	✓	2,026	CZ145T34WK10	56	208-230/460	5.2	84.0	1.15	12.50	S, US, 13
	1800	56C	117299.00	✓	2,049	CZ6T17WK29	57	208-230/460	5.6	84.0	1.15	12.69	S, US, 13
	1800	145TC	121882.00	✓	2,192	CZ145T17WK34	57	208-230/460	5.6	86.5	1.15	13.25	S, US, 13
	1800	145TC	G121740.00	✓	2,049	CZ145T17WK25	57	208-230/460	5.6	84.0	1.15	12.50	S, US, 13

Green items are Premium Efficient

♥ Note listing on inside back flap

Note 12 - TENV

Specifications are subject to change without notice

Extreme Duck Washguard® All-Stainless Motors

Three Phase - Totally Enclosed - C Face Less Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
1/3	1800	48C	103417.00	✓	1,493	CZ4T17VC8	30	208-230/460	1.3	70.5	1.15	9.58	S, US, 12
1/2	3600	56C	117126.00	✓	1,458	CZ6T34VC19	38	208-230/460	1.6	82.5	1.15	10.47	S, US, 12
	1800	48C	103418.00	✓	1,554	CZ4T17VC2	32	208-230/460	1.6	76.0	1.15	11.33	S, US, 12
	1800	S56C	103413.00	✓	1,382	CZ4T17VC1	32	208-230/460	1.6	76.0	1.15	11.49	S, US, 12
	1800	56C	117127.00	✓	1,536	CZ6T17VC53	39	208-230/460	1.6	78.5	1.15	10.72	S, US, 12
3/4	3600	56C	117128.00	✓	1,509	CZ6T34VC20	45	208-230/460	2.4	84.0	1.15	10.47	S, US, 12
	1800	S56C	103414.00	✓	1,465	CZ4T17WC2	38	208-230/460	2.3	77.0	1.15	12.50	S, US, 13
	1800	56C	117129.00	✓	1,597	CZ6T17VC54	46	208-230/460	2.3	80.0	1.15	11.22	S, US, 12
1	3600	56C	117130.00	✓	1,623	CZ6T34VC21	47	208-230/460	2.6	85.5	1.15	10.97	S, US, 12
	1800	56C	117131.00	✓	1,635	CZ6T17VC55	50	208-230/460	3.0	81.5	1.15	11.69	S, US, 12
1 1/2	3600	143TC	121908.00	✓	1,845	CZ143T34WC6	53	208-230/460	4.0	84.0	1.15	11.75	S, US, 13
	3600	143TC	121750.00	✓	1,726	CZ143T34WC2	53	208-230/460	4.0	82.5	1.15	11.00	S, US, 13
	1800	56C	117297.00	✓	1,720	CZ6T17WC32	55	208-230/460	4.4	84.0	1.15	11.69	S, US, 13
	1800	145TC	121909.00	✓	1,840	CZ143T17WC11	55	208-230/460	4.4	86.5	1.15	12.75	S, US, 13
	1800	145TC	121751.00	✓	1,720	CZ143T17WC5	55	208-230/460	4.4	84.0	1.15	11.25	S, US, 13
	3600	145TC	121910.00	✓	2,138	CZ145T34WC18	55	208-230/460	5.2	85.5	1.15	12.75	S, US, 13
2	3600	145TC	121742.00	✓	1,999	CZ145T34WC10	55	208-230/460	5.2	84.0	1.15	12.50	S, US, 13
	1800	145TC	121743.00	✓	2,021	CZ145T17WC22	56	208-230/460	5.6	84.0	1.15	12.50	S, US, 13
	1800	145TC	121911.00	✓	2,162	CZ145T17WC36	56	208-230/460	5.6	86.5	1.15	13.25	S, US, 13
	1800	56C	117298.00	✓	2,021	CZ6T17WC33	56	208-230/460	5.6	84.0	1.15	12.69	S, US, 13

Green items are Premium Efficient

♥ Note listing on inside back flap

Note 12 - TENV

Specifications are subject to change without notice



View On-line Technical Information





Extreme Duck Motors with Shaft Grounding Rings (SGRs) SGRs help prevent bearing damage when running motors with AC Controls



Three Phase - Totally Enclosed - C Face With Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥ Notes
1/2	1800	56C	117906.00	✓	1,652	CZ6T17VK55	40	208-230/460	1.6	78.5	1.15	10.72	S, US, 12
3/4	1800	56C	117907.00	✓	1,710	CZ6T17VK56	47	208-230/460	2.3	80.0	1.15	11.22	S, US, 12
1	1800	56C	117908.00	✓	1,747	CZ6T17VK57	50	208-230/460	3.0	81.5	1.15	11.97	S, US, 12
1 1/2	1800	56C	117909.00	✓	1,829	CZ6T17WK41	56	208-230/460	4.4	84.0	1.15	11.69	S, US, 13
	1800	145TC	122032.00	✓	1,829	CZ143T17WK20	56	208-230/460	4.4	84.0	1.15	11.25	S, US, 13
2	1800	56C	117910.00	✓	2,120	CZ6T17WK42	57	208-230/460	5.6	84.0	1.15	12.69	S, US, 13
	1800	145TC	122033.00	✓	2,120	CZ145T17WK54	57	208-230/460	5.6	84.0	1.15	12.50	S, US, 13

Note 12 - TENV

Specifications are subject to change without notice

♥ Note listing on inside back flap

Explosion Proof
Motors

Automotive
Duty Motors

Pump
Motors

Washguard®
Motors

Agricultural
Motors

HVAC / Fan
Motors

Special Voltage
Motors

Definite
Purpose Motors

Brake Motors

View On-line Technical Information





DE-FEATHERING



SCALDING



FEEDING



CUTTING



PROCESSING



SLICING



INSPECTION



DE-BONING

There's a LEESON Washguard® Motor for every location in your facility.

LEESON offers more than 200 off-the-shelf solutions to everyday washdown motor needs. What's more, LEESON offers washdown-rated gear reducers and AC and DC controls to compliment our washdown motor line. And, when you need a specially engineered custom solution to your washdown application, think LEESON. Our flexible manufacturing processes enable custom products to be manufactured in small or large quantities.



Washguard® Motors

Features Comparison



Feature	White Duck	Super Duck	SST Duck	Stainless Duck	Extreme Duck
Sealed Bearings	■	■	■	■	■
Potted Lead Entrance					■
Complete Motor Encapsulation					■
Nameplate Etched in Frame	■	■	■	■	■
Interior Corrosion Protected	■	■	■	■	
Motor Breathe Plugs/Drain Plugs	■	■	■	■	Not Needed for total encapsulation
Internally Locked Shaft-End Bearing	■	■	■	■	■
Shaft Seals on Both Ends of TEFC Motors	■	■	■	■	■
Viton® Seals Between Endbells and Frame				■	■
UL, CSA Listed	■	■	■	■	■
60Hz and 50Hz Data on Nameplate	■	■	■	■	■
CE Mark on Nameplate	■	■	■	■	■
O-Ring Sealed Openings				■	■
Standard Motors Include Inverter-Rated Insulation System and Marked on Nameplate—1HP and Higher	■	■	■	■	■
Local Inventory Support	■	■	■	■	
Rotor Cartridge Change-Out				■ ①	■
BISSC Approved		■			■
3-Year Warranty	■ ②	■ ②	■ ②	■ ②	■
Screw On Conduit Box Cover				■ ①	■
Pump Motor Designs	■			■	
Brakemotor Designs	■			■	
DC Motors Available	■			■	
Metric Designs Available				■	

① 56/143/145T Frame Ratings ② Premium Efficient Motors

Specifications are subject to change without notice

View On-line Technical Information



Explosion Proof Motors

Automotive Duty Motors

Pump Motors

Washguard® Motors

Agricultural Motors

HVAC / Fan Motors

Special Voltage Motors

Definite Purpose Motors

Brake Motors

Agricultural Duty Motors - General Purpose & Definite Purpose



- Gasketed capacitor cases and conduit box covers
- Meets or exceeds NEMA service factors
- Single phase and three phase designs
- Double sealed ball bearings
- Double shielded ball bearings on Ag fan motors
- Condensate drains on general purpose Ag motors
- Low temperature manual overload protected
- High and extra high starting torque ratings
- UL recognized component listing and CSA certified
- 1-year warranty

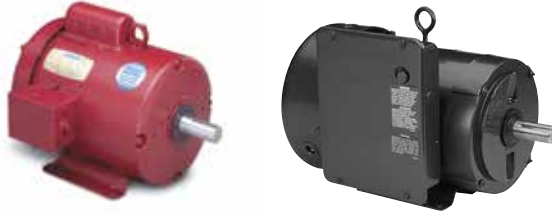
Applications:

For use where exposure to water, dust and dirt exists. Ideally suited for use Farm / Ag equipment such as feeders, conveyors, fans, grain elevators, silo unloaders, and other demanding farm duty equipment.



Agricultural Duty Motors

High Torque - General Purpose



Single Phase - TEFC - Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over-load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥ Notes
1/3	1800	56	113256.00	✓	465	M6C17FB66	20	115/208-230	Man.	3.2	1.15	10.81	S, US,
	1800	56	LM24789	✓	469	SRF4S0.33T1C6028AP7TP1	24	115/208-230	Man.	3.3	1.15	12.82	S, MX
1/2	1800	56	110086.00	✓	541	M6C17FB11	22	115/208-230	Man.	4.4	1.15	10.81	S, US,
	1800	56	LM24790	✓	551	SRF4S0.5T1C6028AP7TP1	25	115/208-230	Man.	4.4	1.15	11.82	S, MX
3/4	1800	56	110087.00	✓	640	M6C17FB9	26	115/208-230	Man.	5.4	1.15	11.31	S, US,
	1800	56	LM24791	✓	648	SRF4S0.75T1C6028AP7TP1	30	115/208-230	Man.	5.5	1.15	12.32	S, MX
1	1800	56	110088.00	✓	735	M6C17FB10	30	115/208-230	Man.	7.0	1.15	11.81	S, US,
	1800	56	LM24792	✓	740	SRF4S1T1C6028AP7TP1	32	115/208-230	Man.	6.7	1.15	12.82	S, MX
	1800	143T	121569.00	✓	740	M143C17FB13	30	115/208-230	Man.	7.0	1.15	12.75	S, US,
	1800	143T	LM24793	✓	757	SSF4S1T1C6028AP7TP1	35	115/208-230	Man.	6.7	1.15	12.87	S, MX
1 1/2	1800	56H	110089.00	✓	820	M6K17FB3	41	115/208-230	Man.	8.6	1.15	12.61	S, US,
	1800	56H	LM24794	✓	835	SRF4S1.5T1B6028AP7TP1	41	115/208-230	Man.	7.6	1.15	13.82	S, MX
	1800	56HZ	113938.00	✓	834	M6K17FB39	39	115/208-230	Man.	8.6	1.15	13.25	S, US, 3, 53
	1800	145T	LM24795	✓	835	SSF4S1.5T1B6028AP7TP1	42	115/208-230	Man.	7.6	1.15	13.87	S, MX
2	1800	56HZ	110090.00	✓	1,175	M6K17FB4	43	230	Man.	9.2	1.15	13.75	S, US, 3, 53
	1800	182T	131541.00	✓	1,253	P182C17FB12	50	115/208-230	Man.	12.4	1.15	14.46	S, MX
3	1800	184T	131542.00	✓	1,313	P184C17FB13	83	230	Man.	19.0	1.15	16.46	S, MX
	1800	184T	LM24797	✓	1,280	SS184F4S3T1C66AP7TP1	92	230	Man.	19.0	1.15	16.46	S, MX
5	1800	184T	131543.00	✓	1,645	P184K17FB16	96	230	Man.	20.5	1.15	17.46	S, MX, 53
	1800	184T	LM24798	✓	1,674	SSF4S5T1B66AP71TP1	90	230	Man.	20.5	1.15	17.46	S, MX, 53
7 1/2	1800	215T	140707.00	✓	1,965	P215K17FB15	144	230	Man.	32.0	1.15	20.21	S, MX, 53
	1800	215T	LM24799	✓	2,064	SS215F4S7.5T1B66AP7TP1	130	230	Man.	30.0	1.15	21.09	S, MX, 53
10	1800	215T	140706.00	✓	2,301	P215K17FB16	152	230	Man.	40.0	1.15	20.71	S, MX, 53

▼ LM Numbers are Lincoln Models

♥ Note listing on inside back flap

Specifications are subject to change without notice

View On-line Technical Information



Explosion Proof Motors

Automotive Duty Motors

Pump Motors

Washguard Motors

Agricultural Motors

HVAC / Fan Motors

Special Voltage Motors

Definite Purpose Motors

Brake Motors

Agricultural Duty Motors

ECO-Ag - Premium Efficient Farm Duty Motors

Features:

- Up-to 22% higher efficiency than standard Ag Motors
- Sealed bearings
- Shaft flinger - output shaft
- High starting torque
- Manual overload protected
- Weep holes provide condensation drains



Single Phase - TEFC - Rigid Base

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
1/3	1800	56	117689.00	✓	510	M6K17FB56	27	115/208-230	Man.	1.7	76.0	1.15	10.99	S, US, 53
1/2	1800	56	117690.00	✓	585	M6K17FB57	30	115/208-230	Man.	2.5	78.0	1.15	11.49	S, US, 53
3/4	1800	56	117691.00	✓	703	M6K17FB60	35	115/208-230	Man.	3.2	82.0	1.15	11.99	S, US, 53
1	1800	56	117692.00	✓	792	M6K17FB58	37	115/208-230	Man.	4.2	83.0	1.15	12.49	S, US, 53
	1800	143T	121973.00	✓	802	M143K17FB3	38	115/208-230	Man.	4.2	83.0	1.15	12.93	S, US, 53
1 1/2	1800	56H	117693.00	✓	902	M6K17FB59	43	115/208-230	Man.	6.5	84.0	1.15	13.49	S, US, 53
	1800	145T	121974.00	✓	917	M143K17FB4	44	115/208-230	Man.	6.5	84.0	1.15	13.93	S, US, 53
2	1800	145T	121975.00	✓	1,241	M145K17FB29	49	230	Man.	8.2	85.0	1.15	14.43	S, US, 53

Green items are Premium Efficient

♥ Note listing on inside back flap

Specifications are subject to change without notice

Three Phase Ag Duty Motors - Eco-Ag Designs

Features:

- Premium efficient designs
- Double sealed ball bearings
- Shaft flinger - output shaft
- Normally closed thermostat protected
- Weep holes provide condensation drains



Three Phase - TEFC - Rigid Base

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
1/2	1800	56	117772.00	✓	569	C6T17FB163	30	208-230/460	T-stat	1.8	77.0	1.15	11.31	S, US
3/4	1800	56	117759.00	✓	623	C6T17FB160	31	208-230/460	T-stat	2.4	81.5	1.15	11.31	S, US
1	1800	56	117760.00	✓	763	C6T17FB161	32	208-230/460	T-stat	3.2	85.5	1.15	12.81	S, US
1 1/2	1800	56H	117761.00	✓	778	C6T17FB162	34	208-230/460	T-stat	4.8	86.5	1.15	13.31	S, US
1 1/2	1800	145T	121997.00	✓	790	C145T17FB98	35	208-230/460	T-stat	4.8	86.5	1.15	13.75	S, US
2	1800	145T	121998.00	✓	823	C145T17FB99	45	208-230/460	T-stat	5.8	86.5	1.15	14.76	S, US
3	1800	184T	132328.00	✓	929	C182T17FB54	80	208-230/460	T-stat	7.8	89.5	1.15	14.96	S, MX
5	1800	184T	132329.00	✓	1,020	C184T17FB67	94	208-230/460	T-stat	12.8	89.5	1.15	15.96	S, MX
7 1/2	1800	213T	141145.00	✓	1,307	C213T17FB22	144	208-230/460	T-stat	21.4	91.7	1.15	18.70	S, MX
10	1800	215T	141146.00	✓	1,579	C215T17FB23	161	208-230/460	T-stat	29.0	91.7	1.15	19.70	S, MX

Green items are Premium Efficient

♥ Note listing on inside back flap

Specifications are subject to change without notice



View On-line Technical Information

Agricultural Duty Motors Hi-Torque and Extra Hi-Torque



Single Phase - TEFC - Extra Hi-Torque - Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over-load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥ Notes
2	1800	182T	131541.00	✓	1,253	P182C17FB12	50	115/208-230	Man.	12.4	1.15	14.46	S, MX
3	1800	184T	131542.00	✓	1,313	P184C17FB13	83	230	Man.	19.0	1.15	16.46	S, MX
5	1800	184T	LM24802	✓	1,615	SSF4S5TB6008AP8TP1	125	208-230	Man.	22.5	1.15	17.36	S, MX
	1800	213TZ	LM24803	✓	2,006	SS213F4S5TZB66AP8TP1-1	126	230	Man.	22.6	1.15	18.34	S, MX, 53
	1800	215T	140203.00	✓	1,967	P215K17FB3	119	230	Man.	24.0	1.15	18.71	S, MX, 53
	1800	215TZ	140223.00	✓	2,003	P215K17FB5	150	230	Man.	24.0	1.15	18.71	S, MX, 4, 53
7 1/2	1800	215T	140130.00	✓	2,142	P215K17FB2	144	230	Man.	33.6	1.15	20.21	S, MX, 53
	1800	215TZ	140209.00	✓	2,308	P215K17FB4	141	230	Man.	33.6	1.15	20.21	S, MX, 4, 53
	1800	215TZ	LM24804	✓	2,186	SS215F4S7.5TZ1B66AP8TP1-1	125	230	Man.	30.5	1.15	21.09	S, MX, 53
10	1800	215T	140414.00	✓	2,510	P215K17FB6	156	230	Man.	40.0	1.15	20.71	S, MX, 53
	1800	215T	LM24805	✓	2,466	SSF4S10T1B66AP8TP1	150	230	Man.	30.5	1.00	21.09	S, MX, 53

▼ LM Numbers are Lincoln Models

♥ Note listing on inside back flap

Specifications are subject to change without notice

Single Phase - TEFC - High Torque - C Face Less Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over-load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥ Notes
1/3	1800	56C	113290.00	✓	615	M6C17FC59	28	115/208-230	Man.	3.2	1.15	10.81	S, US,
1/2	1800	56C	110492.00	✓	704	M6C17FC12	22	115/208-230	Man.	4.4	1.15	10.81	S, US,
3/4	1800	56C	110493.00	✓	824	M6C17FC13	29	115/208-230	Man.	5.4	1.15	11.31	S, US,
1	1800	56C	110494.00	✓	934	M6C17FC14	33	115/208-230	Man.	7.0	1.15	11.81	S, US,
1 1/2	1800	56C	110495.00	✓	1,061	M6K17FC3	43	115/208-230	Man.	8.6	1.15	12.31	S, US, 53
2	1800	145TC	120855.00	✓	1,378	M145K17FC13	45	230	Man.	9.2	1.15	13.75	S, US, 53
3	1800	184TC	131603.00	✓	1,869	P184C17FC5	104	230	Man.	19.0	1.15	16.47	S, MX,
5	1800	184TC	131602.00	✓	2,292	P184K17FC7	104	230	Man.	20.5	1.15	17.47	S, MX, 53

Specifications are subject to change without notice

♥ Note listing on inside back flap

Single Phase - TEFC - High Torque - C Face With Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over-load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥ Notes
1/3	1800	56C	116485.00	✓	637	M6C17FK81	29	115/208-230	Man.	3.2	1.15	10.81	S, US,
1/2	1800	56C	116486.00	✓	731	M6C17FK80	23	115/208-230	Man.	4.4	1.15	10.81	S, US,
3/4	1800	56C	116487.00	✓	850	M6C17FK79	30	115/208-230	Man.	5.4	1.15	11.31	S, US,
1	1800	56C	116488.00	✓	965	M6C17FK78	34	115/208-230	Man.	7.0	1.15	11.81	S, US,
1 1/2	1800	56HC	116489.00	✓	1,087	M6K17FK47	44	115/208-230	Man.	8.6	1.15	12.81	S, US, 53
2	1800	145TC	121625.00	✓	1,385	M145K17FK11	46	230	Man.	9.2	1.15	13.75	S, US, 53
3	1800	184TC	131994.00	✓	1,904	P184C17FK10	105	230	Man.	19.0	1.15	16.47	S, MX,
5	1800	184TC	131995.00	✓	2,303	P184K17FK13	105	230	Man.	20.5	1.15	17.47	S, MX, 53

Specifications are subject to change without notice

♥ Note listing on inside back flap

View On-line Technical Information



Explosion Proof Motors
Automotive Duty Motors
Pump Motors
Washguard Motors
Agricultural Motors
HVAC / Fan Motors
Special Voltage Motors
Define Purpose Motors
Brake Motors

Agricultural Duty Motors

Fan Duty - Single and Three Phase

Two-Winding Variable Torque PSC Type For Shaft Mounted Fan Application

Features:

- PSC designs offer low in-rush current
- Two speed operation - most ratings
- Automatic overload protected
- Resilient mount for quiet operation
- Corrosion resistant finish



Single Phase - TEAO - Resilient Base - PSC Type

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
1/4	1625	48Z	100803.00	✓	360	A4P17NR1	19	115/230	Auto.	1.4	1.00	10.66	S, MX, 16, 34
	1075	48Z	100824.00	✓	408	A4P11NR2	20	115/230	Auto.	1.4	1.00	10.66	S, MX, 16, 34
	1075	S56Z	100805.00	✓	452	A4P11NJ1	22	115/230	Auto.	1.4	1.00	11.06	S, MX, 17, 34
1/3	1625	48Z	100804.00	✓	375	A4P17NR2	21	115/230	Auto.	1.6	1.00	10.66	S, MX, 16, 34
	1625	S56H	100767.00	✓	432	A4P17NJ1	22	115/230	Auto.	1.6	1.00	10.31	S, MX, 34
	1625	56HY	111348.00	✓	472	A6P17NZ6	24	115/230	Auto.	1.7	1.00	13.44	S, US, 59
1/2	1075	48Z	100825.00	✓	443	A4P11NR3	25	115/230	Auto.	1.8	1.00	11.16	S, MX, 16, 34
	1075	S56HZ	100806.00	✓	475	A4P11NJ2	27	115/230	Auto.	1.8	1.00	11.56	S, MX, 17, 34
	1625	56HZ	111323.00	✓	539	A6P17NR3	30	115/230	Auto.	2.6	1.00	12.56	S, US, 17, 34
1/2	1625	S56H	100768.00	✓	445	A4P17NJ2	36	115/230	Auto.	2.2	1.00	10.81	S, MX, 34
	1075	48Z	101645.00	✓	478	A4P11NR6	33	115/230	Auto.	2.8	1.00	11.16	S, MX, 16, 34
	1075	56HZ	111321.00	✓	560	A6P11NR1	37	115/230	Auto.	3.0	1.00	13.56	S, US, 17, 34
1/2	850	48YZ	M099836.00	D	482	A4P8NR1	24	115/230	Auto.	3.0	1.00	11.55	S, CN, 19, 34, 50
	850	48YZ	A099836.00	✓	482	A4P8NR2	24	115/230	Auto.	3.0	1.00	11.55	S, MX, 19, 34, 50
	825	56HZ	111919.00	✓	628	A6P8NR2	40	115/230	Auto.	3.2	1.00	13.56	S, US, 17, 34, 50
3/4	1625	56HZ	111324.00	✓	590	A6P17NR4	34	115/230	Auto.	3.5	1.00	13.06	S, US, 17
	1625	56H	111266.00	✓	590	A6P17NR1	36	115/230	Auto.	3.5	1.00	12.31	S, US
	1075	56HZ	111322.00	✓	635	A6P11NR2	44	115/230	Auto.	4.0	1.00	13.56	S, US, 17, 50
1	1625	56HZ	111267.00	✓	660	A6P17NR2	39	115/230	Auto.	4.4	1.00	12.81	S, US

D - Item to be discontinued once inventory is depleted

♥ Note listing on inside back flap

Specifications are subject to change without notice

Single Phase - TEAO - Rigid Base - PSC Type

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
1/4	1750	48Y	101252.00	✓	344	A4P17NB27	19	115/208-230	Auto.	1.5	1.00	10.90	S, MX, 50
	1625	48Y	100699.00	✓	344	A4P17NB7	19	115/230	Auto.	1.4	1.00	10.65	S, MX
	1650	48Y	M099799.00	D	344	A4P17NB55	19	115/230	Auto.	1.5	1.00	10.79	S, CN
1/4	1075	48Y	M099260.00	D	358	A4P11NB23	21	115/230	Auto.	1.2	1.00	10.83	S, CN
	1075	48Y	A099260.00	✓	358	A4P11NB52	21	115/230	Auto.	1.5	1.00	10.65	S, MX
	1725	48Y	M090253.00	D	354	A4P17NB54	22	115/230	Auto.	1.8	1.00	10.47	S, CN, 50
1/3	1750	48Y	101253.00	✓	389	A4P17NB28	22	115/208-230	Auto.	1.9	1.00	10.65	S, MX, 50
	1625	48Y	100700.00	✓	389	A4P17NB8	22	115/230	Auto.	1.6	1.00	10.65	S, MX
	1625	48Y	M099800.00	D	389	A4P17NB56	22	115/230	Auto.	1.8	1.00	10.79	S, CN
1/3	1625	56Y	111202.00	C/A	450	A6P17NZ1	24	115/230	Auto.	1.7	1.00	12.00	S, US, 58
	1140	S56Y	100604.00	✓	455	A4P11NH1	23	115/230	Auto.	1.8	1.00	11.40	S, MX
	1075	48Y	M099261.00	D	423	A4P11NB24	21	115/230	Auto.	1.5	1.00	11.34	S, CN
1/2	1075	48Y	A099261.00	✓	423	A4P11NB53	21	115/230	Auto.	1.8	1.00	10.90	S, MX
	1750	S56Y	101176.00	✓	428	A4K17NH2	26	115/230	Auto.	3.5	1.00	10.40	S, MX, 50, 54
	1750	48Y	100701.00	✓	419	A4P17NB9	29	115/230	Auto.	2.5	1.00	12.15	S, MX
1/2	1625	48Y	M099801.00	D	419	A4P17NB57	29	115/230	Auto.	2.5	1.00	10.79	S, CN
	1060	48Y	M099946.00	D	438	A4P11NB28	26	115/230	Auto.	2.5	1.00	11.81	S, CN
	1075	48Y	A099946.00	✓	438	A4P11NB54	26	115/230	Auto.	2.5	1.00	11.90	S, MX
3/4	1075	48Y	M099847.00	D	625	A6P11NB4	36	115/230	Auto.	3.6	1.00	13.56	S, CN
	1075	56HZ	A099847.00	✓	625	A6P11NB5	35	115/230	Auto.	3.7	1.00	13.56	S, MX

C/A - Check Availability

♥ Note listing on inside back flap

D - Item to be discontinued once inventory is depleted

Specifications are subject to change without notice



View On-line Technical Information



Agricultural Duty Motors

Agricultural Fan

Typically used in Poultry houses or barn exhaust fans

Features:

- TEAO designs - continuous duty
- Extended thru-bolts
- 1/2" dia. x 2 1/2" long shaft with flats, 90° apart
- Fully gasketed
- Automatic overload protected
- Must be mounted in airstream for proper cooling



Single Phase - PSC - TEAO - Resilient Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over-load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
1/4	1625	48Z	LM24445	✓	577	SPA4S0.25TZRY1A6027AP11-1	20	115/230	Auto.	1.8	1.00	11.06	S, MX
	1625	48Z	LM24447	C/A	447	SPA4S0.25TZRY1A6027AP10-1	17	115/230	Auto.	1.6	1.00	10.09	S, MX
1/3	1625	48Z	LM24450	✓	634	SPA4S0.33TZRY1A6027AP11-1	23	115/230	Auto.	1.9	1.00	11.81	S, MX
	1625	48Z	LM24448	✓	492	SPA4S0.33TZRY1A6027AP10-1	17	115/230	Auto.	2.2	1.00	10.09	S, MX
	1075	48Z	LM24443	✓	612	SPA6S0.33TZRY1A6027AP10-1	15	115/230	Auto.	2.1	1.00	10.84	S, MX
1/2	1625	48Z	LM24446	✓	703	SPA4S0.5TZRY1A6027AP11-1	23	115/230	Auto.	2.7	1.00	11.81	S, MX
	1625	48Z	LM24449	✓	544	SPA4S0.5TZRY1A6027AP10-1	21	115/230	Auto.	3.0	1.00	10.84	S, MX
	1075	48Z	LM24444	✓	703	SPA6S0.5TZRY1A6027AP10-1	19	115/230	Auto.	3.2	1.00	10.84	S, MX

▼ LM Numbers are Lincoln Models

♥ Note listing on inside back flap

C/A - Check Availability

Specifications are subject to change without notice

Grain Dryer / Centrifugal Fan Motors

Used in Ag fan and blower applications.

Screens used to protect against entry of pests and and silage

Features:

- NEMA Premium and EPE efficiency
- Rodent Screens
- Re-greasable Bearings
- Cast Iron construction
- 1.25 Service Factor
- Class F insulation
- Inverter Duty Insulation System
- UL Recognized and CSA certified



Three Phase - Open Drip-Proof (ODP) - Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	F.L. Eff.	"C" Dim. (Inches)	♥Notes
10	1800	215T	G151828.60	✓	1,088	C215T17DB54	168	208-230/460	25.0	89.5	16.75	C, CN
15	1800	254T	G151540.60	✓	1,601	C254T17DB12	265	208-230/460	37.6	91.0	21.89	C, CN
	1800	254T	170540.60	✓	2,076	C254T17DB45	279	208-230/460	37.0	93.0	20.94	C, CN
20	1800	256T	G151541.60	✓	1,991	C256T17DB7	307	208-230/460	48.0	91.7	23.54	C, CN
	1800	256T	170541.60	✓	2,532	C256T17DB10	324	208-230/460	51.0	93.0	22.60	C, CN
25	1800	284T	G151829.60	C/A	2,177	C284T17DB11	388	208-230/460	59.6	91.7	23.54	C, CN
30	1800	286T	G151542.60	✓	2,773	C286T17DB12	434	208-230/460	72.0	92.4	26.57	C, CN
	1800	286T	170542.60	✓	3,409	C286T17DB13	471	208-230/460	71.0	93.6	25.00	C, CN

Green items are Premium Efficient

♥ Note listing on inside back flap

C/A - Check Availability

Specifications are subject to change without notice

View On-line Technical Information



Explosion Proof Motors

Automotive Duty Motors

Pump Motors

Washguard Motors

Agricultural Motors

HVAC / Fan Motors

Special Voltage Motors

Define Purpose Motors

Brake Motors

Agricultural Duty Motors

Aeration Fan Motors

Features:

- Belt driven fans or fan on shaft applications
- Capacitor start designs
- Must be mounted in airstream for proper cooling
- Epoxy paint to resist corrosion
- Single-phase models have built-in terminal boards



Single Phase - Capacitor Start - TEAO - Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
3/4	3450	56Z	111332.00	✓	448	C6C34NB15	27	115/230	None	5.0	1.00	10.90	S, US, 22
1	3450	56Z	111333.00	✓	532	C6C34NB16	29	115/230	None	6.0	1.00	10.90	S, US, 22
1 1/2	3450	56Z	111949.00	✓	687	C6C34NB19	32	115/230	None	8.5	1.00	11.40	S, US, 22
	3450	143TZ	120374.00	✓	739	C143C34NB1	31	115/230	None	8.5	1.00	11.84	S, US, 22
2	3450	145TZ	120375.00	✓	900	C145C34NB1	41	230	None	10.0	1.00	13.34	S, US, 23
3	3450	145T	120376.00	✓	947	C145K34NB1	45	230	None	12.8	1.00	13.84	S, US, 53

Specifications are subject to change without notice

♥ Note listing on inside back flap



Three Phase - TEAO - Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
3/4	3450	56Z	111334.00	✓	459	C6T34NB18	21	208-230/460	2.4	1.00	9.90	S, US, 22
1	3450	56Z	111335.00	✓	498	C6T34NB19	22	208-230/460	3.2	1.00	9.90	S, US, 22
1 1/2	3450	143TZ	120377.00	✓	572	C143T34NB2	31	208-230/460	4.2	1.00	11.34	S, US, 22
2	3450	145TZ	120378.00	✓	677	C145T34NB1	34	208-230/460	5.6	1.00	11.84	S, US, 22
3	3450	145T	120379.00	✓	759	C145T34NB2	38	230/460	7.6	1.00	12.34	S, US, 23

Specifications are subject to change without notice

♥ Note listing on inside back flap



View On-line Technical Information

Used on Crop Dryers with air over/fan on shaft designs

Features:

- Class "F" insulation system
- Overload protected
- Keyed shaft with 1/4-20 UNC tapped hole on end
- 34" long leads
- Capacitors shipped loose on 1-phase designs
- Motor venting protected against insects and rodents
- Double sealed ball bearings



Single Phase - Drip-Proof Air Over - Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over-load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
3-4.5	3600	145TZ	LM24778	✓	1,199	SSD2S3-4.5TZ1B66QS10-1	46	230	Auto	13-19	1.50	13.74	S, MX
5 - 7	3600	182TZ	131847.00	✓	1,408	C182C34DB2	91	230	T-Stat	27.2-35	1.00	16.44	S, MX
7.5-10	3600	182TZ	131848.00	✓	1,565	C182K34DB4	95	230	T-Stat	31-42	1.00	16.44	S, MX
7 - 10	3600	184TZ	LM24780	✓	1,962	SSD2S7-10TZ1B66QS11-1	102	230	T-Stat	31-42	1.40	15.94	S, MX
7- 9	3600	184TZ	LM24781	C/A	1,589	SSD2S7-9TZ1C66QS11-1	88	230	T-Stat	31-42	1.30	15.50	S, MX
10 - 15	3600	215TZ	140640.00	✓	2,406	C215K34DB2	159	230	T-Stat	39.5-61.5	1.00	20.42	S, MX
	3600	215TZ	LM24782	✓	2,492	SS215D2S10-15TZ1C66QS11-1	135	230	T-Stat	39.5-61.5	1.50	18.16	S, MX
	3600	215TZ	141084.00	✓	2,406	C215K34DB3	159	230	T-Stat	40-59	1.00	20.08	S, MX, 52

▼ LM Numbers are Lincoln Models

♥ Note listing on inside back flap

Note 52 - Extra High Starting Torque

C/A - Check Availability

Specifications are subject to change without notice

Three Phase - Drip-Proof Air Over - Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over-load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
5-7.5	3600	184TZ	131849.00	✓	1,140	C184T34DB8	70	208-230/460	T-Stat	19.0	1.00	13.94	S, MX
7.5-10	3600	184TZ	131850.00	✓	1,331	C184T34DB9	85	208-230/460	T-Stat	24.2	1.00	15.44	S, MX
10 - 15	3600	215TZ	140641.00	✓	1,606	C215T34DB3	95	208-220/440	T-Stat	40.0	1.50	17.41	S, MX

Specifications are subject to change without notice

♥ Note listing on inside back flap

Used in Tobacco Barns and other applications that require a fan motor in a high ambient condition.

Features:

- Drip-proof airover designs
- Class H insulation for high ambient conditions
- 80° C ambient rated
- 120 inch leads
- Oversized double sealed bearings
- 1/4-20 tapped hole at end of shaft



Tobacco Barn Motors



Single Phase and Three Phase - C Face With Base - TEFC

HP	SYN RPM 60 Hz	Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over-load Prot.	Phase	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
7.5	1800	215TVZ	140830.00	✓	1,761	215TBDW17041	125	230	34.5	1.15	18.04	S,MX	20.71	S, MX,
10	1800	215TVZ	140816.00	✓	2,624	C215K17DB13	150	230	44.0	1.15	20.65	S,MX	19.70	S, MX,

Specifications are subject to change without notice

View On-line Technical Information



Agricultural Duty Motors

Grain Stirring Motors

Used in Grain stirring systems inside grain bins

Features:

- TEFC, continuous duty
- High torque designs
- Rugged 205 bearing, shaft end
- Vertical shaft up design with drain hole
- 7/8" Dia. Shaft



Single Phase - Rigid Base - TEFC

HP	SYN RPM 60 Hz	Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
1 1/2	1800	56HZ	111330.00	✓	874	P6K17FB18	42	115/208-230	Man.	8.6	1.00	12.31	S, US, 53
	1800	56HZ	LM24521	C/A	876	SRF4S1.5TZ1B6028AP9-2	47	115/208-230	Man.	7.6	1.15	13.21	S, US, 53

▼ LM Numbers are Lincoln Models

C/A - Check Availability

Specifications are subject to change without notice

♥ Note listing on inside back flap

Three Phase - Rigid Base - TEFC

HP	SYN RPM 60 Hz	Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F. L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
1 1/2	1800	56HZ	111329.00	✓	889	M6T17FB49	38	208-230/460	5.4	80.0	1.00	11.81	S, US, 53

Specifications are subject to change without notice

♥ Note listing on inside back flap

Catfish Pond Motors

Designed for outdoor pond aeration applications

Features:

- High torque designs
- Epoxy painted for corrosion protection
- Double sealed ball bearings
- Drain holes provided to purge condensation



Single Phase and Three Phase - C Face With Base - TEFC

HP	SYN RPM 60 Hz	Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	Phase	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
10	1800	215TC	140705.00	✓	2,657	P215K17FK5	204	230	Man.	1	40.0	1.15	20.71	S, MX,
	1800	215TC	140833.00	C/A	1,599	C215T17FK19	169	208-230/460	None	3	23.6	1.15	19.7	S, MX,

Green items are Premium Efficient

C/A - Check Availability

Specifications are subject to change without notice

♥ Note listing on inside back flap



View On-line Technical Information

Agricultural Duty Motors

Irrigation Booster Pump Motors

Used in agricultural duty irrigation systems

Features:

- Threaded jet pump motor shaft
- Vertical Shaft down design
- Rain canopy provided
- Epoxy painted for corrosion protection
- Neoprene shaft flinger



Three Phase - Irrigation Booster - TEFC

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 460 V	Service Factor	"C" Dim. (Inches)	♥ Notes
2	3600	56J	112991.00	✓	853	A6T34FC33	33	460	2.8	1.5	14.34	S, US

Specifications are subject to change without notice

♥ Note listing on inside back flap

Irrigation Drive Motors

Features:

- Double-sealed ball bearings
- Designed for vertical shaft down applications
- Rain canopy protects against water contamination



Three Phase - C Face Less Base - TEFC

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 460 V	Service Factor	"C" Dim. (Inches)	♥ Notes
1	1800	56C	111304.00	✓	824	A6T17FC33	30	460	75	1.3	12.34	S, US

Specifications are subject to change without notice

♥ Note listing on inside back flap

Milk Transfer Pump Motor

Features:

- Direct replacement for Surge milk pumps
- Double sealed ball bearings
- Epoxy painted for corrosion protection
- Permanent split capacitor design
- Requires 30MFD, 370V. capacitor - not supplied



Single Phase - Rigid Base - TENV

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥ Notes
1/2	3600	56CZ	113939.00	✓	572	C6P34NK5	42	230	4.5	SPEC	13.07	S, US

Specifications are subject to change without notice

♥ Note listing on inside back flap

View On-line Technical Information



Explosion Proof Motors

Automotive Duty Motors

Pump Motors

Washguard Motors

Agricultural Motors

HVAC / Fan Motors

Special Voltage Motors

Definite Purpose Motors

Brake Motors

Agricultural Duty Motors

Feed-Auger Drive Motors - Dust Tight

Replacement motors for poultry feed auger drive systems

Features:

- Choice of mechanical or solid state starting switch
- Mechanical switch has over-speed protection - Note 51
- Manual overload protected



Single Phase - TEFC - 60 Hertz

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over-load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥ Notes
1/3	1800	48YZ	101159.00	✓	584	P4C17FZ11	21	115/230	Man.	3.1	1.00	10.47	S, MX, 26
	1800	56YZ	117887.00	✓	561	117887.00	21	115/208-230	Man.	2.9	1.00	12.00	S, MX, 26, 51, 64
	1800	48N	LM24462	✓	564	SPA4S0.33TADN1C6027TP1	23	115/230	Man.	2.5	1.50	11.31	S, MX, 26, 51
1/2	1800	48YZ	101120.00	✓	657	P4C17FZ7	22	115/208-230	Man.	4.0	1.15	10.72	S, MX, 26
	1800	56YZ	117888.00	✓	643	117888.00	22	115/208-230	Man.	4.2	1.25	12.00	S, MX, 26, 51, 64
	1800	48N	LM24463	✓	643	SPA4S0.5TADN1C6027TP1	23	115/230	Man.	3.4	1.00	11.81	S, MX, 26, 51
3/4	1800	48YZ	101119.00	✓	768	P4C17FZ6	24	115/208-230	Man.	5.4	1.00	11.47	S, MX, 26
	1800	56YZ	117889.00	✓	661	117889.00	28	115/208-230	Man.	4.2	1.25	12.00	S, MX, 26, 51, 64
	1800	48N	LM24812	✓	666	SRF4S0.75TZADN1C6028TP1-1	31	115/208-230	Man.	5.5	1.00	12.59	S, MX, 26, 51
1	1800	56YZ	112615.00	✓	850	P6C17FZ27	35	115/230	Man.	7.0	1.00	12.11	S, MX, 27
	1800	56YZ	117883.00	✓	829	117883.00	35	115/208-230	Man.	5.4	1.25	12.00	S, MX, 27, 51, 64
	1800	56NZ	LM24813	✓	829	SRF4S1TZADN1C6028TP-1	32	115/208-230	Man.	6.7	1.00	13.39	S, MX, 27, 51
1 1/2	1800	56YZ	113280.00	✓	1,412	P6K17FZ6	47	115/208-230	Man.	6.5	1.00	13.62	S, MX, 27, 53
	1800	56YZ	113301.00	D	1,393	M6K17FZ7	44	115/230	Man.	6.5	1.00	13.62	S, MX, 27, 51, 53
	1800	56YZ	117884.00	✓	1,393	117884.00	44	115/208-230	Man.	6.5	1.15	14.51	S, MX, 27, 51, 53, 64
	1800	56NZ	LM24814	✓	1,394	SRF4S1.5TZADN1C6028TP1-1	41	115/208/230	Man.	7.6	1.00	14.38	S, MX, 27, 51, 53

▼ LM Numbers are Lincoln Models

♥ Note listing on inside back flap

Note 64 - Stub shaft on ODE for manual jogging

D - Item to be obsoleted when inventory is depleted

Specifications are subject to change without notice

Single Phase - TEFC - 50 Hertz

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over-load Prot.	F. L. Amps @ 220 V	Service Factor	"C" Dim. (Inches)	♥ Notes
1/2	1800	48YZ	101643.00	✓	711	M4C14FZ5	26	110/220	Man.	4.0	1.00	11.47	S, MX, 26, 51
3/4	1800	48YZ	101644.00	✓	764	M4C14FZ6	30	110/220	Man.	5.8	1.00	12.22	S, MX, 26, 51
1	1800	56YZ	113906.00	✓	928	M6C14FZ8	39	110/220	Man.	6.4	1.00	12.61	S, MX, 27, 51
1 1/2	1800	56YZ	113907.00	✓	1,551	P6K14FZ2	48	110/220	Man.	8.6	1.00	13.61	S, MX, 27, 51

Specifications are subject to change without notice

♥ Note listing on inside back flap



View On-line Technical Information

Agricultural Duty Motors

Hatchery and Incubator Fan Motors

Replacement motors for hatchery and incubator fan motors

Features:

- Automatic overload protected
- 15MFD, 370V. capacitor shipped loose with motor 101341.00
- Motor 114102.00 is a split phase two-speed motor
- Double shielded ball bearings



Cat. No. 101341.00



Cat. No. 114102.00

Single Phase - TEAO

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥ Notes
1/4	1800	48Y	101341.00	✓	442	A4P17NZ24	17	115/230	Auto.	1.4	1.00	8.93	S, US, 16, 34, 58
1/2-0.22	1800/1200	56H	114102.00	✓	576	A6S46NR4	33	115	Auto.	9.3-5.6*	1.25	11.81	S, US

* Full Load amps are at high speed and low speeds, respectively at 115 volts

♥ Note listing on inside back flap

Specifications are subject to change without notice

Replacement motors used in Poultry feather picker machines

Features:

- Phosphatized or stainless steel shafts drilled and tapped metric shafts
- Epoxy painted for corrosion protection
- Stainless motor - 122009.00
- Encapsulated Stainless motor - 122010.00
- Washdown duty features including shaft seals
- USDA approved food-safe paint
- Extra high breakdown torques



Feather Picker Motors



Three Phase - TEFC

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥ Notes
2	1800	145T	121934.00	✓	914	C145T17FB87	54	208-230/460	7.0	86.5	1.25	14.76	S, US
	1800	145T	122009.00	✓	2,161	C145T17WK49	58	208-230/460	5.8	86.5	1.25	13.25	S, US
	1800	145T	122010.00	✓	2,192	C145T17WK50	75	208-230/460	5.6	84.0	1.15	12.75	S, US
	1200	184TZ	132246.00	✓	1,392	C184T11FB24	96	230/460	7.2	88.5	1.50	15.96	S, MX
2/1.5	1200	112M	132247.00	✓	1,456	C184T11FB25	96	230/460	7.2	88.5	1.50	15.96	S, MX, 29
3	1800	56HZ	115751.00	✓	1,029	C6T17FB113	45	208-230/460	8.6	82.5	1.00	14.25	S, US, 5
	1800	145T	121944.00	✓	1,029	C145T17FB92	45	230/460	8.6	82.5	1.00	14.25	S, US, 56

Green items are Premium Efficient

♥ Note listing on inside back flap

Note: Catalog Number 115751.00 has a 303 stainless steel shaft.

Specifications are subject to change without notice

View On-line Technical Information



Explosion Proof
Motors

Automotive
Duty Motors

Pump
Motors

Washguard
Motors

Agricultural
Motors

HVAC / Fan
Motors

Special Voltage
Motors

Definite
Purpose Motors

Brake Motors

Agricultural Duty Motors

Industry-AG • High Torque

General Purpose, heavy duty for industrial and agriculture applications

Features:

- Manual overload protected
- Double sealed ball bearings
- Weather resistant reset button protection
- Capacitor start provides high starting torque



Rigid Base - 115-208/230V - TEFC

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
1/3	1800	56	M002256.00	D	450	M6C17FB142	24	115-208/230	Man.	2.9	1.15	11.00	S, CN
	1800	56	117862.00	✓	386	C6C17FB164	20	115-208/230	Man.	3.3	1.15	11.82	S, MX
1/2	1800	56	117863.00	✓	439	C6C17FB165	26	115-208/230	Man.	4.4	1.15	11.82	S, MX
3/4	1800	56	117864.00	✓	520	C6C17FB166	33	115-208/230	Man.	5.5	1.15	12.32	S, MX
1	1800	56	117865.00	✓	564	C6C17FB167	33	115-208/230	Man.	6.7	1.15	12.82	S, MX
1 1/2	1800	56	M009089.00	D	772	M6K17FB49	41	115-208/230	Man.	9.0	1.00	12.88	S, CN
	1800	56H	117866.00	✓	678	C6K17FB61	50	115-208/230	Man.	7.6	1.15	13.82	S, MX
2	1800	56HZ	117867.00	✓	776	C6K17FB62	50	230	Man.	9.4	1.15	14.87	S, MX

"M00" Series motors use C Face Kit M064076.00

♥ Note listing on inside back flap

D - Item to be obsoleted when inventory is depleted

Specifications are subject to change without notice

C Face Less Base - 115-208/230 - TEFC

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
1/3	1800	56C	M002290.00	D	547	M6C17FC140	24	115-208/230	Man.	2.9	1.15	10.81	S, CN
	1800	56C	117878.00	✓	416	C6C17FC178	23	115-208/230	Man.	3.3	1.15	11.82	S, MX
1/2	1800	56C	M009492.00	D	600	M6C17FC141	27	115-208/230	Man.	3.9	1.15	10.81	S, CN
	1800	56C	117879.00	✓	468	C6C17FC179	24	115-208/230	Man.	4.4	1.15	11.82	S, MX
3/4	1800	56C	M009493.00	D	677	M6C17FC142	30	115-208/230	Man.	5.0	1.15	11.31	S, CN
	1800	56C	117880.00	✓	546	C6C17FC180	28	115-208/230	Man.	5.5	1.15	12.32	S, MX
1	1800	56C	117881.00	✓	592	C6C17FC181	30	115-208/230	Man.	6.7	1.15	12.82	S, MX

D - Item to be obsoleted when inventory is depleted

♥ Note listing on inside back flap

Specifications are subject to change without notice



View On-line Technical Information



Agricultural Duty Motors

Variable Speed - High Performance AG Fan Motors

Designed for use in agricultural fan applications where variable speed is required

Features:

- Water-tight connection end compartment
- Locked double sealed ball bearings
- All angle mounting
- Shaft seal on output shaft end
- Automatic overload protected



Single Phase - TEAO - Rigid Base - Extended Thru-Bolts

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
1/4	1625	48Y	M099899.00	D	340	A4P17NB58	18	115-208/230	Auto.	1.3	1.00	11.30	S, CN
	1625	48Y	A099899.00	✓	340	A4P17NZ139	19	115-208/230	Auto.	1.4	1.00	10.89	S, MX
	1060	48Y	M099460.00	D	367	A4P11NB25	21	115-208/230	Auto.	1.3	1.00	11.80	S, CN
	1060	48Y	A099460.00	✓	367	A4P11NB5		115-208/230	Auto.				S, MX
1/3	1625	48Y	M099900.00	D	362	A4P17NB59	19	115-208/230	Auto.	1.8	1.00	11.30	S, CN
	1625	48Y	A099900.00	✓	362	A4P17NZ141	20	115-208/230	Auto.	1.6	1.00	10.89	S, MX
	1060	48Y	M099461.00	D	392	A48P11NB26	22	115-208/230	Auto.	1.9	1.00	11.80	S, CN
	1060	48Y	A099461.00	✓	392	A4P17NZ86	23	115-208/230	Auto.	1.8	1.00	11.14	S, MX
1/2	1625	48Y	M099901.00	D	402	A4P17NB60	22	115-208/230	Auto.	2.6	1.00	11.70	S, CN
	1625	48Y	A099901.00	✓	402	A4P17NZ142	23	115-208/230	Auto.	2.2	1.00	11.39	S, MX
	1060	48Y	M099462.00	D	428	A4P11NB27	25	115-208/230	Auto.	2.8	1.00	12.20	S, CN
	1060	48Y	A099462.00	✓	428	A4P911NZ85	26	115-208/230	Auto.	2.8	1.00	11.39	S, MX

D = Item to be obsolete once inventory has been depleted

♥ Note listing on inside back flap

Specifications are subject to change without notice

Agricultural Fan Motors - Belt Drive • TEAO

Designed for use in agricultural belted fan applications

Features:

- Capacitor start / Capacitor run designs for high efficiency
- Mount in airstream for proper cooling
- Combination 56 / 140 frame stamped steel base



High-Efficiency - Single-Phase

HP	SYN RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
1/2	1725	56	M009580.00	D	492	A6K17NB21	27	115/208-230	—	2.2	1.00	10.33	S, CN
	1725	56	A009580.00	✓	492	A6K17NB30	27	115/208-230	—	2.3	1.15	11.44	S, MX
3/4	1725	56H	M009581.00	D	521	A6K17NB15	30	115/208-230	Auto.	3.4	1.00	10.83	S, CN
	1725	56H	A009581.00	✓	521	A6K17NB29	30	115/208-230	Auto.	3.3	1.00	11.44	S, MX
1	1725	56H	M009782.00	D	542	A6K17NB17	37	115/208-230	Auto.	4.3	1.00	11.80	S, CN
	1725	56H	A009782.00	✓	542	A6K17NB33	37	115/208-230	Auto.	4.0	1.00	12.44	S, MX
1 1/2	1725	56H	M009594.00	D	647	A6K17NB16	39	115/208-230	Auto.	6.8	1.00	12.60	S, CN
	1725	56H	A009594.00	✓	647	A6K17NB32	39	115/208-230	Auto.	5.8	1.00	11.94	S, MX
2	1725	145T	M009595.00	D	718	M145K17NB	47	230	Auto.	9.5	1.00	12.80	S, CN, *
	1725	145T	A009595.00	✓	718	U145K17NB	47	230	Auto.	9.2	1.00	13.49	S, MX *

* Motor M009595 has a frame mounted conduit box.

♥ Note listing on inside back flap

D = Item to be obsolete once inventory has been depleted

Specifications are subject to change without notice

View On-line Technical Information



Explosion Proof
Motors

Automotive
Duty Motors

Pump
Motors

Washguard
Motors

Agricultural
Motors

HVAC / Fan
Motors

Special Voltage
Motors

Define
Purpose Motors

Brake Motors

Agricultural Duty Motors

Agriculture Fan

115/230 Volts - Belt Drive - Overload Protection

Features:

- Capacitor start/capacitor run design
- Ball bearings
- LM24777 must be mounted in airstream



Single Phase - TENV - Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
1/2	1725	56Z	LM24776	✓	692	SRN4S0.5TZ1B6027TP2-1	21	115/230	Auto	2.3	1.00	10.47	S, MX, 12, 53
1	1725	56Z	LM24777	✓	926	SRA4S1TZ1B6027TP2-1	32	115/230	Auto	4.6	1.00	10.72	S, MX, 53, *

▼ LM Numbers are Lincoln Models

* LM24777 is a TEAO design

Specifications are subject to change without notice

♥ Note listing on inside back flap

Agriculture Fan

Direct Drive Thru-Bolt Mount

Features:

- 1/2" long thru-bolts
- 48Y - 1/2" dia., 1-1/2" long shaft with flat
- 48YZ - 1/2" dia., 2-1/2" long shaft with two flats



Single Speed - Single Phase - TEAO - Thru-Bolt Mount

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 115 V	Service Factor	"C" Dim. (Inches)	♥Notes
1/4	1725	48Y	LM24488	C/A	421	SPN4S0.25TZNY1S6001TP1-1	10	115	Auto	4.0	1.00	7.62	S, MX

▼ LM Numbers are Lincoln Models

C/A - Check Availability

Specifications are subject to change without notice

♥ Note listing on inside back flap

Two Speed - Single Phase - TEAO - Thru-Bolt Mount

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 115 V	Service Factor	"C" Dim. (Inches)	♥Notes
1/4	1725	48YZ	LM24492	C/A	439	SPA4/6/1S0.25/0.25TZNY1S6001TP2-1	17	115	Auto	4.1	1.00	11.09	S, MX
1/3	1725	48YZ	LM24491	C/A	494	SPA4/6/1S0.33/0.33TZNY1S6001TP2-1	18	115	Auto	5.3	1.00	11.34	S, MX

▼ LM Numbers are Lincoln Models

C/A - Check Availability

Specifications are subject to change without notice

♥ Note listing on inside back flap



View On-line Technical Information

Agricultural Duty Motors

Agriculture Fan

Features:

- 115 & 230 Volts • Single Phase
- Extended thru-bolts on 48Z frame motos
- 48Z - 1/2 dia. shaft, 2-1/2 long with two flats
- 56Z - 1/2 dia. shaft, 2-1/2" long shaft with keyway
- Includes 5/8" shaft adaptor sleeve with key



Explosion Proof
Motors

Automotive
Duty Motors

Pump
Motors

Washguard
Motors

Agricultural
Motors

HVAC / Fan
Motors

Special Voltage
Motors

Definite
Purpose Motors

Brake Motors

Single Phase - TEAO - Resilient Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥ Notes
1/4	1725	48Z	LM24487	C/A	439	SPA4S0.25TZRY1S6001TP2-1	17	115	Auto	3.5	1.00	10.09	S, MX
1/3	1725	48Z	LM24486	✓	494	SPA4S0.33TZRY1S6001TP2-1	21	115	Auto	4.5	1.00	10.09	S, MX
1/2	1725	56Z	LM24809	C/A	667	SRA4S0.5TZR1S6027TP2-1	24	115/230	Auto	6.6	1.00	11.34	S, MX

▼ LM Numbers are Lincoln Models

♥ Note listing on inside back flap

* Amps at 115 Volts

C/A - Check Availability

Specifications are subject to change without notice

Aeration Fan, HVAC

115 & 230 VOLTS • Single Phase

Features:

- Automatic overload protected
- Sealed bearings
- 18" extended leads
- Shaft has keyway and 1/4-20 UNC tapped hole on end of shaft

Single Phase - TEAO - Rigid Base

HP	SYN RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥ Notes
1	3450	56Z	LM24786	✓	536	SRA2S1TZ1C6027L10MB6TP2-1	29	115/230	Auto	5.6	1.15	10.94	S, MX
1 1/2	3475	143TZ	LM24787	✓	608	SSA2S1.5TZ1C6027L10MB6TP2-1	35	115/230	Auto	8.4	1.15	11.49	S, MX
3	3510	145TZ	LM24788	✓	749	SS145A2S3TZ1B66L10MB6TP2-1	52	230	Auto	11.8	1.15	13.49	S, MX

▼ LM Numbers are Lincoln Models

♥ Note listing on inside back flap

Specifications are subject to change without notice

View On-line Technical Information



HVAC – Fan Motors



- Various voltages and mounting types available
- Single and three phase fan duty motors
- Rigid base, resilient base, pedestal base, belly band mount and extended thru-bolt mount types
- Drip-Proof, TEFC, TEAO and DPAO designs
- General purpose duty
- Agricultural duty
- UL recognized and CSA certified

Applications:

Ideally suited for a variety of fan applications requiring the motor to either be mounted in or out of the air stream for proper ventilation. Some motors have an epoxy finish for harsh applications and other motors have a baked on enamel finish. Industrial, commercial and agricultural fan motors available.



General Specifications:

- Drip-proof and totally enclosed designs
- Industrial quality, resilient (cradle) mounted
- Capacitor start-type
- Ball bearing designs
- Moderate starting torque to reduce machinery stresses
- Suitable for belt-driven fans or fan-on-shaft applications



Single Phase - Drip-Proof - Resilient Base

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
1/4	3510	48	101434.00	C/A	312	A4C34DR8	16	115/208-230	Auto.	2.0	1.00	9.39	S, MX
	1725	48	100109.00	✓	366	A4C17DR1	17	115/208-230	Auto.	2.7	1.35	9.89	S, MX
	1725	48	100111.00	✓	316	A4C17DR3	17	115/208-230	Auto.	2.7	1.00	9.89	S, MX
	1725	48	102963.00	C/A	366	A4C17DR47	17	277	Auto.	2.2*	1.35	9.89	S, MX
1/3	3450	48	101431.00	✓	320	A4C34DR11	17	115/208-230	Auto.	2.3	1.00	9.39	S, MX
	1725	48	100110.00	✓	447	A4C17DR2	18	115/208-230	Auto.	3.3	1.35	9.89	S, MX
	1725	48	101015.00	✓	366	A4C17DR31	18	115/208-230	Auto.	3.3	1.00	9.89	S, MX
	1725	S56	100014.00	✓	421	C4C17DJ5	19	115/208-230	None	3.3	1.35	10.31	S, MX
	1725	S56	100010.00	✓	447	A4C17DJ2	18	115/208-230	Auto.	3.3	1.35	10.31	S, MX
	1725	S56	100063.00	✓	366	A4C17DJ9	19	115/208-230	Auto.	3.3	1.00	10.31	S, MX
	1725	S56	102964.00	✓	447	A4C17DJ72	18	277	Auto.	2.8*	1.35	10.31	S, MX
	1725	S56	102965.00	✓	447	A4C17DJ72	18	277	Auto.	2.8*	1.35	10.31	S, MX
1/2	3450	48	101432.00	✓	353	A4C34DR10	20	115/208-230	Auto.	3.4	1.00	9.89	S, MX
	1725	S56	100015.00	✓	454	C4C17DJ6	21	115/208-230	None	4.4	1.25	10.81	S, MX
	1725	S56	100045.00	✓	435	M4C17DJ17	20	115/208-230	Man.	4.4	1.00	10.81	S, MX
	1725	S56	101611.00	✓	481	A4C17DJ57	22	115/208-230	Auto.	4.4	1.25	10.81	S, MX, 32
	1725	S56	100011.00	✓	481	A4C17DJ3	22	115/208-230	Auto.	4.4	1.25	10.81	S, MX
	1725	S56	100064.00	✓	437	A4C17DJ10	20	115/208-230	Auto.	4.4	1.00	10.81	S, MX
	1725	S56	102965.00	✓	481	A4C17DJ74	22	277	Auto.	3.7*	1.25	10.81	S, MX
	1725	S56	102966.00	✓	481	A4C17DJ74	22	277	Auto.	3.7*	1.25	10.81	S, MX
3/4	3450	48	101433.00	✓	416	A4C34DR9	22	115/208-230	Auto.	4.8	1.00	10.39	S, MX
	3450	S56H	100603.00	✓	443	A4C34DJ7	26	115/208-230	Auto.	4.9	1.25	11.31	S, MX
	1725	S56H	100016.00	✓	570	C4C17DJ7	26	115/208-230	None	5.4	1.25	11.81	S, MX
	1725	S56H	100046.00	✓	595	M4C17DJ18	26	115/208-230	Man.	5.4	1.25	11.81	S, MX
	1725	S56H	100047.00	✓	498	M4C17DJ19	25	115/208-230	Man.	5.5	1.00	11.81	S, MX
	1725	S56H	101839.00	✓	595	A4C17DJ67	28	115/208-230	Auto.	5.4	1.25	11.81	S, MX, 32
	1725	S56H	100012.00	✓	595	A4C17DJ4	26	115/208-230	Auto.	5.4	1.25	11.81	S, MX
	1725	S56H	100065.00	✓	493	A4C17DJ11	25	115/208-230	Auto.	5.5	1.00	11.81	S, MX
	1725	S56H	102966.00	✓	595	A4C17DJ73	26	277	Auto.	4.5*	1.25	11.81	S, MX
	1725	S56H	102967.00	✓	595	A4C17DJ73	26	277	Auto.	4.5*	1.25	11.81	S, MX
1	3450	56H	110478.00	✓	511	A6C34DR6	28	115/208-230	Auto.	6.0	1.25	11.85	S, US
	1725	56H	113027.00	✓	620	C6C17DR37	30	115/208-230	None	6.4	1.15	11.81	S, US
	1725	56H	110007.00	✓	645	A6C17DR1	29	115/208-230	Auto.	6.4	1.15	11.81	S, US
	1725	56H	110054.00	✓	630	A6C17DR2	32	115/208-230	Auto.	6.4	1.00	11.81	S, US
	1725	56H	116599.00	✓	645	A6C17DR54	29	277	Auto.	5.4*	1.20	11.82	S, US
1 1/2	3450	56H	110479.00	✓	657	A6C34DR7	30	115/230	Auto.	8.2	1.15	11.82	S, US
	1725	56H	110579.00	✓	780	A6K17DR6	38	115/208-230	Auto.	7.2	1.15	12.82	S, US, 6, 53
	1725	56H	116600.00	C/A	780	A6K17DR41	38	277	Auto.	6.0*	1.15	12.82	S, US
2	3450	56H	113633.00	C/A	823	U6C34DR21	38	115/208-230	Auto.	10.0	1.15	13.82	S, US
	1725	56H	113608.00	✓	831	A6K17DR28	45	115/208-230	Auto.	10.0	1.15	13.81	S, US, 6, 53
	1725	56H	116601.00	✓	831	A6K17DR42	45	277	Auto.	8.7*	1.15	13.82	S, US

* F.L. Amps at 277V

♥ Note listing on inside back flap

C/A - Check Availability

Specifications are subject to change without notice

View On-line Technical Information



Explosion Proof
Motors

Automotive
Duty Motors

Pump
Motors

Washguard
Motors

Agricultural
Motors

HVAC / Fan
Motors

Special Voltage
Motors

Definite
Purpose Motors

Brake Motors

HVAC – Fan Motors

Single Phase - TEFC - Resilient Base

Features:

- Industrial quality, resilient (cradle) mounted
- High starting torque
- Automatic overload protected
- Suitable for belt-driven fans or fan-on-shaft applications



Single Phase - TEFC - Resilient Base

HP/ kW	RPM 60Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
1/2	1725	56	110025.00	✓	545	A6C17FR1	26	115/208-230	Auto.	4.4	1.15	11.96	S, US
3/4	1725	56	110026.00	✓	653	A6C17FR2	28	115/208-230	Auto.	5.4	1.15	12.46	S, US, 6
1	1725	56H	111915.00	✓	742	A6C17FR10	31	115/208-230	Auto.	6.4	1.15	12.96	S, US, 6

Specifications are subject to change without notice

♥ Note listing on inside back flap

Wattsaver® Premium Efficiency Fan Motors

Features:

- Premium efficient
- Class F insulation
- Terminal boards
- Automatic overload protected



Single Phase - Drip-Proof - Resilient Base

HP/ kW	RPM 60Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	% F.L. Eff.	"C" Dim. (Inches)	♥Notes
1/4	1800	48	101602.00	✓	406	A4K17DR7	19	115	Auto.	2.5	1.35	71.00	10.39	S, MX, 32
1/3	1800	48	101405.00	✓	480	A4K17DR5	19	115	Auto.	3.2	1.35	75.00	10.39	S, MX, 32
1/2	1800	48	101585.00	✓	549	A4K17DR6	25	115	Auto.	4.6	1.35	76.00	11.39	S, MX, 32

Green items are Premium Efficient

Specifications are subject to change without notice

♥ Note listing on inside back flap



View On-line Technical Information

Resilient Base Motors - Three Phase General Purpose or Fan & Blower Service

General Specifications:

- Industrial quality, resilient (cradle) mounted
- Ball bearing design
- Moderate starting torque to reduce fan stresses
- Suitable for belt-driven fans or fan-on-shaft applications



Three Phase - TEFC - Resilient Base

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	% F.L. Eff.	"C" Dim. (Inches)	♥ Notes
1/2	1725	56	111917.00	✓	512	C6T17NR1	25	208-230/460	None	1.8	1.15	78.50	11.31	S, US, 6, 12
1	1725	56	111918.00	✓	576	C6T17FR1	29	208-230/460	None	3.8	1.15	77.00	12.46	S, US, 6

Note 12 - TENV

Specifications are subject to change without notice

♥ Note listing on inside back flap

Three Phase - Drip-Proof - Resilient Base

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	% F.L. Eff.	"C" Dim. (Inches)	♥ Notes
1/3	3450	S56	101639.00	✓	372	A4T34DJ4	17	208-230/460	Auto.	1.7	1.35	61.00	10.31	S, US, 33
	1725	S56	100210.00	✓	406	C4T17DJ3	18	208-230/460	None	1.6	1.35	64.30	10.31	S, MX
	1725	S56	101520.00	✓	493	A4T17DJ18	19	208-230/460	Auto.	1.6	1.35	64.30	10.81	S, MX, 33
1/2	3450	S56	101640.00	C/A	447	A4T34DJ3	18	208-230/460	Auto.	2.4	1.25	69.00	10.31	S, US, 33
	1725	S56	100145.00	✓	465	C4T17DJ1	22	208-230/460	None	2.0	1.25	68.00	10.81	S, MX
	1725	S56	100796.00	✓	541	A4T17DJ10	22	208-230/460	Auto.	2.0	1.25	68.00	11.31	S, MX
3/4	3450	S56	101773.00	✓	467	C4T34DJ8	20	208-230/460	None	2.4	1.25	79.00	10.81	S, US
	3450	S56	101641.00	✓	545	A4T34DJ5	20	208-230/460	Auto.	2.4	1.25	79.00	11.31	S, US, 33
	1725	S56	100146.00	✓	516	C4T17DJ2	25	208-230/460	None	2.8	1.25	75.00	11.31	S, MX
	1725	S56	100908.00	✓	587	A4T17DJ13	26	208-230/460	Auto.	2.8	1.25	75.00	11.81	S, US, 33
1	3450	56	114192.00	✓	498	C6T34DR35	24	208-230/460	None	3.2	1.25	77.00	10.82	S, US
	3450	56	113895.00	C/A	575	A6T34DR30	25	208-230/460	Auto.	3.2	1.25	77.00	10.82	S, US, 33
	1725	56	110052.00	✓	542	C6T17DR1	23	208-230/460	None	4.2	1.15	78.50	11.31	S, US
	1725	56H	111311.00	✓	610	A6T17DR11	27	208-230/460	Auto.	4.2	1.15	78.50	11.31	S, US, 33
1 1/2	3450	56H	114194.00	C/A	606	C6T34DR36	31	208-230/460	None	4.2	1.15	81.50	11.82	S, US
	3450	56H	113896.00	C/A	652	A6T34DR31	29	208-230/460	Auto.	4.2	1.15	81.50	11.82	S, US, 33
	1725	56H	110433.00	✓	624	C6T17DR4	32	208-230/460	None	5.6	1.15	78.50	11.81	S, US
	1725	56H	113846.00	✓	647	A6T17DR25	29	208-230/460	Auto.	5.6	1.15	78.50	11.81	S, US, 49
2	3450	56H	114196.00	C/A	702	C6T34DR37	36	208-230/460	None	5.6	1.15	82.90	12.32	S, US
	3450	56H	113897.00	✓	756	A6T34DR32	39	208-230/460	Auto.	5.6	1.15	82.90	12.32	S, US, 33
	1725	56H	114197.00	✓	678	C6T17DR29	37	208-230/460	None	6.2	1.15	78.50	12.31	S, US
	1725	56H	113847.00	✓	742	A6T17DR26	34	208-230/460	Auto.	6.2	1.15	78.50	12.31	S, US, 33
3	3450	56HZ	113926.00	✓	747	U6T34DR33	40	208-230/460	Auto.	7.6	1.00	84.00	13.19	S, US, 33
	1725	56HZ	116593.00	✓	813	A6T17DR33	47	230/460	Auto.	8.6	1.15	82.50	14.19	S, US, 33

C/A - Check Availability

Specifications are subject to change without notice

♥ Note listing on inside back flap

View On-line Technical Information



Explosion Proof
Motors

Automotive
Duty Motors

Pump
Motors

Washguard
Motors

Agricultural
Motors

HVAC / Fan
Motors

Special Voltage
Motors

Definite
Purpose Motors

Brake Motors

HVAC – Fan Motors

Fan & Blower Motors - Multi-Speed - Single & Three Phase

Features:

- Two-winding - variable torque
- PSC Type for shaft mounted fan applications
- Overload protected with a UL and CSA recognized automatic reset protector
- Listed speed or two speed operation using the proper auxiliary switch - reference drawing 005210.01
- Variable speed by using a variable voltage control
- Overload protected with a UL and CSA recognized automatic reset protector
- Must be mounted in airstream for proper motor cooling
- Extended through-bolts
- Epoxy painted motors



Single Phase - TEAO - Resilient Base - PSC Type

HP/kW	RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over-load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
1/4	1625	48Z	100803.00	✓	360	A4P17NR1	19	115/230	Auto.	1.4	1.00	10.66	S, MX, 16, 34
	1075	48Z	100824.00	✓	408	A4P11NR2	20	115/230	Auto.	1.4	1.00	10.66	S, MX, 16, 34
	1075	S56Z	100805.00	✓	452	A4P11NJ1	22	115/230	Auto.	1.4	1.00	11.06	S, MX, 17, 34
1/3	1625	48Z	100804.00	✓	375	A4P17NR2	21	115/230	Auto.	1.6	1.00	10.66	S, MX, 16, 34
	1625	S56H	100767.00	✓	432	A4P17NJ1	22	115/230	Auto.	1.6	1.00	10.31	S, MX, 34
	1625	56HY	111348.00	✓	472	A6P17NZ6	24	115/230	Auto.	1.7	1.00	13.44	S, US, 59
	1075	48Z	100825.00	✓	443	A4P11NR3	25	115/230	Auto.	1.8	1.00	11.16	S, MX, 16, 34
	1075	S56HZ	100806.00	✓	475	A4P11NJ2	27	115/230	Auto.	1.8	1.00	11.56	S, MX, 17, 34
1/2	1625	56HZ	111323.00	✓	539	A6P17NR3	30	115/230	Auto.	2.6	1.00	12.56	S, US, 17, 34
	1625	S56H	100768.00	✓	445	A4P17NJ2	36	115/230	Auto.	2.2	1.00	10.81	S, MX, 34
	1075	48Z	101645.00	✓	478	A4P11NR6	33	115/230	Auto.	2.8	1.00	11.16	S, MX, 16, 34
	1075	56HZ	111321.00	✓	560	A6P11NR1	37	115/230	Auto.	3.0	1.00	13.56	S, US, 17, 34
	850	48YZ	M099836.00	D	482	A4P8NR1	24	115/230	Auto.	3.0	1.00	11.55	S, CN, 19, 34, 50
	850	48YZ	A099836.00	✓	482	A4P8NR2	24	115/230	Auto.	3.0	1.00	11.55	S, MX, 19, 34, 50
	825	56HZ	111919.00	✓	628	A6P8NR2	40	115/230	Auto.	3.2	1.00	13.56	S, US, 17, 34, 50
3/4	1625	56HZ	111324.00	✓	590	A6P17NR4	34	115/230	Auto.	3.5	1.00	13.06	S, US, 17
	1625	56H	111266.00	✓	590	A6P17NR1	36	115/230	Auto.	3.5	1.00	12.31	S, US,
	1075	56HZ	111322.00	✓	635	A6P11NR2	44	115/230	Auto.	4.0	1.00	13.56	S, US, 17, 50
1	1625	56HZ	111267.00	✓	660	A6P17NR2	39	115/230	Auto.	4.4	1.00	12.81	S, US,

D - Item to be discontinued once inventory is depleted
Specifications are subject to change without notice

♥ Note listing on inside back flap

Single Phase - TEAO - Rigid Base - PSC Type

HP/kW	RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over-load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
1/4	1625	48Y	100699.00	✓	344	A4P17NB7	19	115/230	Auto.	1.4	1.00	10.65	S, MX
	1750	48Y	101252.00	✓	344	A4P17NB27	19	115/208-230	Auto.	1.5	1.00	10.40	S, MX, 50
1/3	1625	48Y	100700.00	✓	389	A4P17NB8	21	115/230	Auto.	1.6	1.00	10.65	S, MX
	1625	56Y	111202.00	C/A	450	A6P17NZ1	27	115/230	Auto.	1.7	1.00	12.00	S, US, 62
	1750	48Y	101253.00	✓	389	A4P17NB28	22	115/208-230	Auto.	1.9	1.00	10.65	S, MX, 50
	1140	S56Z	100604.00	✓	630	A4P11NH1	23	115/230	Auto.	1.8	1.00	11.40	S, MX
1/2	1625	48Y	100701.00	✓	532	A4P17NB9	25	115/230	Auto.	2.5	1.00	12.15	S, MX
	1750	S56Y	101176.00	✓	535	A4K17NH2	24	115/230	Auto.	3.5	1.00	10.40	S, MX, 50, 54

C/A - Check Availability

Motor 101176.00 must be mounted within the airflow of the fan
Specifications are subject to change without notice

♥ Note listing on inside back flap



View On-line Technical Information



Features:

- Belted or fan-on-shaft applications
- Can be mounted within or outside the fan's airstream
- Resilient mounted for quiet operation
- 3/4 HP and larger single phase are capacitor start motors; smaller single phase are split phase start.
- Ball bearings



Single Phase - Drip-Proof - Resilient Base

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps High/ Low	Service Factor	"C" Dim. (Inches)	♥Notes
1/4-1/12	1725	48Z*	101020.00	✓	387	C4S46DR1	20	115	4.2-3.2	1.00	11.64	S, US, 16
1/3-0.15	1725	S56H	101021.00	✓	492	C4S46DJ1	26	115	5.0-4.6	1.00	12.27	S, MX
1/2-1/4	1725	56H	111953.00	✓	614	C6S46DR1	33	115	7.8-4.6	1.00	12.31	S, US
	1725	56H	113643.00	✓	614	C6S46DR2	33	230	3.9-2.3	1.00	12.31	S, US
3/4-1/3	1725	56H	111954.00	✓	891	C6C46DR2	38	115	11.6-7.4	1.00	12.81	S, US, 6
	1725	56H	113672.00	✓	891	C6C46DR5	39	230	5.8-3.7	1.15	12.81	S, US, 6
1-0.44	1725	56H	111955.00	✓	1,049	C6K46DR1	41	115	13.2-9.5	1.00	12.81	S, US, 6, 53
	1725	56H	113373.00	✓	1,049	C6K46DR3	39	230	6.5-4.6	1.00	12.81	S, US, 6, 53

Specifications are subject to change without notice

♥ Note listing on inside back flap

Three Phase - Drip-Proof - Resilient Base

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps High/ Low	Service Factor	"C" Dim. (Inches)	♥Notes
1/2-.22	1725	56H	111956.00	✓	926	C6T46DR1	32	208-230	1.8-1.1	1.00	12.31	S, US
	1725	56H	111957.00	C/A	926	C6T46DR2	32	460	0.9-0.5	1.00	12.31	S, US
3/4-1/3	1725	56H	111958.00	✓	977	C6T46DR3	36	208-230	2.8-1.6	1.00	13.82	S, US, 6
	1725	56H	111959.00	C/A	977	C6T46DR4	36	460	1.4-0.8	1.00	12.81	S, US, 6
1-0.44	1725	56H	111960.00	✓	1,049	C6T46DR5	40	208-230	4.0-2.4	1.00	12.81	S, US, 6
	1725	56H	111961.00	✓	1,049	C6T46DR6	40	460	1.8-1.0	1.00	12.81	S, US, 6
1 1/2-.67	1725	56H	111962.00	✓	1,272	C6T46DR7	40	208-230	5.0-2.6	1.00	12.81	S, US, 6
	1725	56H	111963.00	✓	1,272	C6T46DR8	40	460	2.5-1.3	1.00	12.81	S, US, 6

C/A - Check Availability

♥ Note listing on inside back flap

Specifications are subject to change without notice

View On-line Technical Information



HVAC – Fan Motors

Aeration Fan Motors

Totally Enclosed Air Over Motors (TEAO)

Features:

- Suitable for shaft mounted fans
- Capacitor start designs
- Designed to run in the airflow of the driven fan
- Epoxy enamel finish to resist corrosion
- Ball bearing designs



Single Phase - Capacitor Start - TEAO - Rigid Base

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps 230V	Service Factor	"C" Dim. (Inches)	♥Notes
3/4	3450	56	111332.00	✓	448	C6C34NB15	27	115/230	5.0	1.00	10.90	S, US, 22
1	3450	56	111333.00	✓	532	C6C34NB16	29	115/230	6.0	1.00	10.90	S, US, 22
1 1/2	3450	56	111949.00	✓	687	C6C34NB19	32	115/230	8.5	1.00	11.40	S, US, 22
	3450	143TZ	120374.00	✓	739	C143C34NB1	31	115/230	8.5	1.00	11.84	S, US, 22
2	3450	145TZ	120375.00	✓	900	C145C34NB1	41	230	10.0	1.00	13.34	S, US, 23
3	3450	145T	120376.00	✓	947	C145K34NB1	45	230	12.8	1.00	13.84	S, US, 53

Specifications are subject to change without notice

♥ Note listing on inside back flap

Three Phase - TEAO - Rigid Base

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230V	F.L. Eff	Service Factor	"C" Dim. (Inches)	♥Notes
3/4	3450	56Z	111334.00	✓	459	C6T34NB18	21	208-230/460	2.4	75.5	1.00	9.90	S, US, 22
1	3450	56Z	111335.00	✓	498	C6T34NB19	22	208-230/460	3.2	77.0	1.00	9.90	S, US, 22
1 1/2	3450	143TZ	120377.00	✓	572	C143T34NB2	31	208-230/460	4.2	82.5	1.00	11.34	S, US, 22
2	3450	145TZ	120378.00	✓	677	C145T34NB1	34	208-230/460	5.6	82.5	1.00	11.84	S, US, 22
3	3450	145T	120379.00	✓	759	C145T34NB2	38	230/460	7.6	84.0	1.00	12.34	S, US, 23

Specifications are subject to change without notice

♥ Note listing on inside back flap



View On-line Technical Information

Ventilation Fan Motor - Dust-Tight - Shaft Mounted

Features:

- Permanent split capacitor start motors
- Direct drive exhaust ventilation fans
- Extended thru-bolt designs
- Built in terminal panel for quick connections
- Motors must be mounted in the mounted fan's airstream



Single Phase - PSC Type - TEAO - Thru-Bolt Mount

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps 230V	Service Factor	"C" Dim. (Inches)	♥Notes
1/3	1625	48Y	M090085.00	✓	381	A4P17NZ58	20	115/230	Auto	1.8	1.00	10.79	S, CN
1/2	1625	48Y	M090086.00	✓	411	A4P17NZ56	22	115/230	Auto	2.5	1.00	10.79	S, CN
	825	56Z	114620.00	✓	714	A6P8NZ2	35	115/230	Auto	3.2	1.00	12.63	S, US, 50
	850	48Y	M099250.00	✓	462	A4P8NZ1	24	115/230	Auto	3.0	1.00	11.00	S, CN, 20, 50

Specifications are subject to change without notice

♥ Note listing on inside back flap

Single Phase - PSC Type - TEAO - C Face Less Base

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230V	Service Factor	"C" Dim. (Inches)	♥Notes
1/2	850	S56C	M099251.00	D	465	A4P8NC2	24	115/230	Auto	3.0	1.00	10.40	S, CN, 25
	825	S56C	A099251.00	✓	465	A4P8NC3	24	115/230	Auto	3.0	1.15	10.05	S, MX, 25
1	850	S56CZ	M009644.00	D	780	M009644	45	230	Auto	4.6	1.10	15.60	S, CN, 21, 50
	850	S56CZ	A009644.00	✓	780	A6P8NC7	45	230	Auto	4.7	1.15	16.10	S, MX, 21, 50

D = Item to be obsoleted once inventory has been depleted

♥ Note listing on inside back flap

Specifications are subject to change without notice

Three Phase - PSC Type - TEAO - C Face Less Base

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230V	Service Factor	"C" Dim. (Inches)	♥Notes
1/2	850	56C	116201.00	✓	643	C6T8NC37	35	208-230/460	3.0	1.00	10.90	S, US	S, CN, 25
1	850	56C	116202.00	✓	798	C6T8NC38	45	208-230/460	5.0	1.00	12.90	S, US	S, MX, 25

Specifications are subject to change without notice

♥ Note listing on inside back flap

View On-line Technical Information



Explosion Proof
Motors

Automotive
Duty Motors

Pump
Motors

Washguard
Motors

Agricultural
Motors

HVAC / Fan
Motors

Special Voltage
Motors

Definite
Purpose Motors

Brake Motors

HVAC – Fan Motors

Condenser Fan Motors

Features:

- For shaft mounted fan applications
- Belly band and rigid mount designs
- Designed for vertical shaft up applications
- Enclosed shaft end endshield protects against contaminants
- Automatic overload protection
- Double sealed ball bearings
- **NOT FOR USE WITH INVERTERS**



Three Phase - Drip-Proof - Belly Band & Rigid Mount

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230V	F.L. Eff	Service Factor	"C" Dim. (Inches)	♥Notes
1/2	1140	56Y	116772.00	✓	656	A6T11Z3	25	208-230/460	2.8	66.0	1.15	12.56	S, US, 58
3/4	1140	56Y	116773.00	✓	711	A6T11Z2	31	208-230/460	3.4	75.5	1.15	13.06	S, US, 58
1	1140	56Y	111147.00	✓	807	A6T11DZ1	37	208-230/460	3.6	77.0	1.15	14.06	S, US, 58
	1140	56Y	115778.00	✓	749	A6T11DB20	37	208-230/460	4	77.0	1.15	14.05	S, US, 60
1 1/2	1140	56Y	111148.00	✓	881	A6T11DZ2	42	208-230/460	5.2	78.0	1.15	15.06	S, US, 58
	1140	56HY	115779.00	✓	814	A6T11DB21	39	208-230/460	5.6	79.0	1.15	15.55	S, US, 60

Note 58 - Belly Band Mount

♥ Note listing on inside back flap

Note 60 - Rigid Base Mount

Specifications are subject to change without notice

Fan & Blower Motors

Single Phase - Commercial Duty

Designed for continuous duty use in ventilation fans, blowers and other belt driven or fan-on-shaft applications.

Features:

- Split phase design motors
- Belt driven or fan-on-shaft applications
- Resilient base for quiet operation
- Automatic overload protection
- Built-in terminal panel for easy connection



Single Phase - Drip-Proof - Resilient Base

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 115 V	Service Factor	"C" Dim. (Inches)	♥Notes
1/4	1725	48	191868.00	D	263	A4S17DR55	15	115/230	Auto.	2.3	1.35	9.37	S, CN, 32
	1725	48	103797.00	✓	263	A4S17DR71	15	115/230	Auto.	2.6	1.35	9.93	S, MX, 32
1/3	1725	48	191869.00	D	283	A4S17DR56	17	115/230	Auto.	3.3	1.35	9.88	S, CN, 32
	1725	48	103795.00	✓	283	A4S17DR69	17	115/230	Auto.	2.8	1.35	10.18	S, MX, 32
1/2	1725	48	191870.00	D	327	A4S17DR57	19	115/230	Auto.	4.6	1.25	10.39	S, CN, 32
	1725	48	103796.00	✓	327	A4S17DR70	20	115/230	Auto.	4.6	1.25	10.18	S, MX, 32

D = Item to be obsoleted once inventory is depleted

♥ Note listing on inside back flap

Specifications are subject to change without notice



View On-line Technical Information



Designed for use in air conditioners, roof ventilators and exhaust fans.

Features:

- Low starting torque
- Ball bearings
- Resilient "cradle" style base
- Automatic overload protection



Single Phase - Split Phase - Drip-Proof - Resilient Base

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over-load Prot.	F. L. Amps @ 115 V	Service Factor	"C" Dim. (Inches)	♥Notes
1/4	1725	48YZ	M900195.00	✓	240	48S17D1301	13	115	Auto.	5.0	1.35	9.72	S, MX, 7
1/3	1725	56	M900277.00	✓	462	56S17D7208	20	115	Auto.	5.3/2.9	1.35	10.78	S, MX
	1725	48YZ	M900196.00	✓	282	48S17D1303	15	115	Auto.	6.1	1.35	9.72	S, MX, 7
1/2	1725	56	M900599.00	C/A	577	56S17D5710	30	115	Auto.	8.4/4.5	1.25	11.85	S, US
	1725	48YZ	M900197.00	✓	369	48S17D1302	20	115	Auto.	7.2	1.25	10.72	S, MX, 7

Note 7 - includes sleeve to convert shaft to 5/8 inch
Specifications are subject to change without notice

♥ Note listing on inside back flap

Premium Efficiency - Industrial / Residential - Belted Fan Motors

Designed for use in residential or industrial belted fan applications.

Features:

- High efficiency designs
- Ball bearings
- Special balanced rotors
- Spade connectors on terminal board
- Automatic overload protection
- Drop-in replacement for most standard belted-fan motors
- Extremely quiet running compared to standard fan motors
- Consumes approximately half of the power of a standard fan motor



Single Phase - Drip-Proof - Resilient Base

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over-load Prot.	F. L. Amps @ 115 V	Service Factor	"C" Dim. (Inches)	♥Notes
1/4	1725	48	M090602.00	D	312	A4K17DR11	15	115	Auto.	2.5	1.00	9.88	S, CN, 32, 55
	1725	48	A090602.00	✓	312	A4K17DR14	15	115	Auto.	2.4	1.35	10.39	S, MX, 32, 55
1/3	1725	48	M090405.00	D	327	A4K17DR9	19	115	Auto.	3.2	1.35	9.88	S, CN, 32, 55
	1725	48	A090405.00	✓	327	A4K17DR15	19	115	Auto.	3.2	1.35	10.39	S, MX, 32, 55
1/2	1725	48	M090585.00	D	402	A4K17DR10	22	115	Auto.	4.6	1.00	10.50	S, CN, 32, 53
	1725	48	A090585.00	✓	402	A4K17DR13	22	115	Auto.	5.0	1.35	11.64	S, MX, 32, 53

D - Item to be discontinued once inventory is depleted
Specifications are subject to change without notice

♥ Note listing on inside back flap

View On-line Technical Information



HVAC – Fan Motors

Pedestal Fan Motors



Designed for use where the fan is mounted directly to the motor shaft Yoke style mount is industry standard type mount.

Features:

- Drop-in replacement for most standard belted-fan motors
- Extremely quiet running compared to standard fan motors
- Consumes approximately half of the power of a standard fan motor
- Permanent split capacitor type
- Ball bearing design
- Heavy-gauge steel yoke is welded to the motor frame
- 10-32 mounting studs are extended 1.0" on 5.14" bolt circle
- Motors are UL and CSA recognized for both the U.S. and Canadian markets
- Automatic overload protection



Single Phase - PSC Type - TEAO - Yoke Mount

HP	RPM 60 Hz*	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	Shaft Dia.	"C" Dim. (Inches)	♥Notes
1/4	1625	48Y	191872.00	D	263	A4P17NZ63	14	115/230	Auto.	2.6	1.00	0.50	10.95	S, CN
	1625	48Y	103711.00	✓	263	A4P17NZ117	22	115/230	Auto.	3.6	1.00	0.50	10.81	S, MX
	1625	48Y	191908.00	D	263	A4P17NZ64	14	115/230	Auto.	2.6	1.00	0.63	10.95	S, CN
	1625	48Y	103712.00	✓	263	A4P17NZ118	23	115/230	Auto.	3.6	1.00	0.63	10.81	S, MX
	1075	48Y	191891.00	D	291	A4P11NZ26	22	115/230	Auto.	2.4	1.00	0.50	10.95	S, CN
	1075	48Y	103713.00	✓	291	A4P17NZ119	18	115	Auto.	3.2	1.00	0.50	10.06	S, MX
	1075	48Y	191909.00	D	291	A4P11NZ27	25	115/230	Auto.	2.4	1.00	0.63	10.95	S, CN
	1075	48Y	103714.00	✓	291	A4P17NZ120	18	115	Auto.	3.2	1.00	0.63	10.06	S, MX
1/3	1625	48Y	103715.00	✓	288	A4P17NZ121	24	115/230	Auto.	3.5	1.00	0.50	10.81	S, MX
	1625	48Y	191910.00	D	288	A4P17NZ66	15	115/230	Auto.	3.4	1.00	0.63	10.95	S, CN
	1625	48Y	103716.00	✓	288	A4P17NZ122	20	115/230	Auto.	3.5	1.00	0.63	10.81	S, MX
	1075	48Y	191892.00	D	326	A4P11NZ28	23	115/230	Auto.	3.0	1.00	0.50	11.46	S, CN
	1075	48Y	103717.00	✓	326	A4P17NZ123	20	115	Auto.	4.2	1.00	0.50	10.06	S, MX
	1075	48Y	103718.00	✓	326	A4P17NZ124	25	115	Auto.	4.2	1.00	0.63	10.06	S, MX
1/2	1625	48Y	103719.00	✓	332	A4P17NZ125	25	115/230	Auto.	5.4	1.00	0.50	11.06	S, MX
	1625	48Y	103720.00	✓	332	A4P17NZ126	25	115/230	Auto.	5.4	1.00	0.63	11.06	S, MX
	1075	48Y	191893.00	D	378	A4P11NZ30	26	115/230	Auto.	5.0	1.00	0.50	11.93	S, CN
	1075	48Y	103721.00	✓	378	A4P17NZ127	25	115	Auto.	5.7	1.00	0.50	11.06	S, MX
	1075	48Y	191912.00	D	378	A4P11NZ31	26	115/230	Auto.	5.0	1.00	0.63	11.93	S, CN
	1075	48Y	103722.00	✓	378	A4P17NZ128	25	115	Auto.	5.7	1.00	0.63	11.06	S, MX

1200 RPM motors are rated for 2-speed operation

♥ Note listing on inside back flap

* Two-speed operation possible by connecting 115V power to 230V connections.

Actual speed (approx. 67% of rated speed) will depend on fan blade design.

^ - F.L. Amps at 230 V

D - Item to be discontinued once inventory is depleted

Specifications are subject to change without notice



View On-line Technical Information



Variable torque motors are typically used on applications such as fans, blowers and centrifugal pumps.

Constant torque motors are typically used on mixers, compressors, conveyors, extractors, feeders and laundry machinery.

Constant horsepower motors are typically used on machine tools such as drills, lathes, punch presses and milling machines.



Features:

- Two-speed, single winding designs
- Totally enclosed fan cooled designs
- Ball bearing designs
- Single voltage designs

Variable Torque - 460 Volt - Three Phase - TEFC - Rigid Base

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 460 V	Service Factor	"C" Dim. (Inches)	♥Notes
1/25	1800/900	143T	120945.00	C/A	951	C143T48FB7	36	460	1.6-0.7	1.0	12.75	S, US
1.5/37	1800/900	145T	120941.00	✓	990	C145T48FB60	36	460	2.4-1.0	1.0	12.75	S, US
2/5	1800/900	145T	120940.00	C/A	1,154	C145T48FB48	36	460	3.2-1.3	1.0	12.75	S, US
3/7.5	1800/900	184T	131474.00	C/A	1,236	C184T48FB67	77	460	4.0-1.8	1.0	14.46	S, MX
5/1.2	1800/900	184T	131475.00	✓	1,577	C184T48FB68	107	460	6.5-2.5	1.0	15.96	S, MX
7.5/1.9	1800/900	215T	140447.00	✓	2,223	C215T48FB46	155	460	9.7-3.3	1.0	17.71	S, MX
10/2.5	1800/900	215T	140448.00	✓	2,618	C215T48FB48	168	460	12.7-4.2	1.0	18.71	S, MX

C/A - Check Availability

♥ Note listing on inside back flap

Specifications are subject to change without notice

Variable Torque - 208-230 Volt - Three Phase - TEFC - Rigid Base

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
1/25	1800/900	143T	120944.00	C/A	951	C143T48FB6	36	208-230	3.2-1.4	1.0	12.75	S, US
1.5/37	1800/900	145T	120947.00	C/A	992	C145T48FB61	36	208-230	4.8-2.0	1.0	12.75	S, US
2/5	1800/900	145T	120946.00	✓	1,154	C145T48FB59	35	208-230	6.3-2.6	1.0	12.75	S, US
3/7.5	1800/900	184T	131468.00	✓	1,236	C184T48FB61	78	208-230	8.0-3.6	1.0	14.46	S, MX
5/1.2	1800/900	184T	131469.00	✓	1,577	C184T48FB62	94	208-230	13.0-5.0	1.0	15.96	S, MX
7.5/1.9	1800/900	215T	140443.00	C/A	2,244	C215T48FB45	154	208-230	19.4-6.6	1.0	17.71	S, MX
10/2.5	1800/900	215T	140444.00	C/A	2,618	C215T48FB47	166	208-230	25.4-8.4	1.0	18.71	S, MX

C/A - Check Availability

♥ Note listing on inside back flap

Specifications are subject to change without notice

Continued To Next Page

View On-line Technical Information



HVAC – Fan Motors

Fan & Blower Motors - Multi-Speed - Three Phase

Constant Torque - 460 Volt - Three Phase - One Winding - TEFC - Rigid Base

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 460 V	Service Factor	"C" Dim. (Inches)	♥Notes
1/5	1800/900	143T	120943.00	C/A	1,356	C143T48FB9	36	460	1.4–1.6	1.0	13.25	S, US
2/1	1800/900	184T	131471.00	✓	1,733	C184T48FB64	68	460	2.9–2.9	1.0	13.96	S, MX
3/1.5	1800/900	184T	131470.00	✓	1,967	C184T48FB63	80	460	3.8–3.5	1.0	14.96	S, MX
5/2.5	1800/900	215T	140445.00	C/A	2,571	C215T48FB43	145	460	6.7–7.0	1.0	17.71	S, MX

C/A - Check Availability

♥ Note listing on inside back flap

Specifications are subject to change without notice

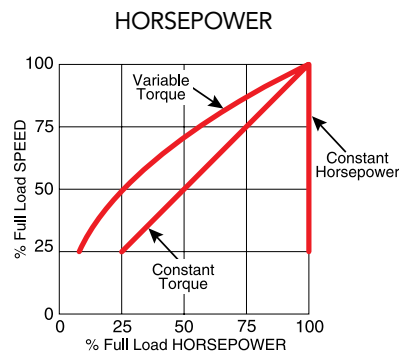
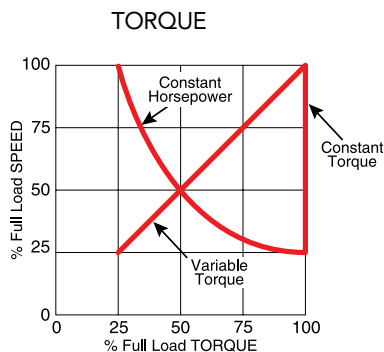
Constant Torque - 208-230 Volt - Three Phase - One Winding - TEFC - Rigid Base

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
1/5	1800/900	143T	120942.00	C/A	1,356	C143T48FB8	37	208-230	3.2–4.2	1.0	12.75	S, US
2/1	1800/900	184T	131473.00	C/A	1,733	C184T48FB66	69	208-230	5.8–5.7	1.0	13.96	S, MX
3/1.5	1800/900	184T	131472.00	✓	1,967	C184T48FB65	80	208-230	7.6–6.9	1.0	14.96	S, MX
5/2.5	1800/900	215T	140446.00	C/A	2,571	C215T48FB44	137	208-230	13.4–14.0	1.00	17.71	S, MX

C/A - Check Availability

♥ Note listing on inside back flap

Specifications are subject to change without notice



View On-line Technical Information

Agricultural Duty - Fan & Blower Motors Two-Winding Variable Torque - PSC Type

These fan and blower duty motors are designed for dependable, energy saving performance in applications where the fan is mounted on the shaft of the motor.



Features:

- Two-winding - variable torque
- PSC Type for shaft mounted fan applications
- Overload protected with a UL and CSA recognized automatic reset protector
- Listed speed or two speed operation using the proper auxiliary switch
- Variable speed by using a variable voltage control
- Overload protected with a UL and CSA recognized automatic reset protector
- Must be mounted in airstream for proper motor cooling
- Extended thru-bolts

Single Phase - PSC - TEAO - Resilient Base

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
1/4	1625	48Z	100803.00	✓	444	A4P17NR1	19	115/230	Auto.	1.4	1.00	10.66	S, MX, 16, 34
	1075	48Z	100824.00	✓	523	A4P11NR2	20	115/230	Auto.	1.4	1.00	10.66	S, MX, 16, 34
	1075	S56Z	100805.00	✓	560	A4P11NJ1	22	115/230	Auto.	1.4	1.00	11.06	S, MX, 17, 28
1/3	1625	48Z	100804.00	✓	478	A4P17NR2	21	115/230	Auto.	1.6	1.00	10.66	S, MX, 16, 34
	1625	S56H	100767.00	✓	516	A4P17NJ1	22	115/230	Auto.	1.6	1.00	10.31	S, MX, 34, 59
	1625	56HY	111348.00	✓	516	A6P17NZ6	24	115/230	Auto.	1.7	1.00	13.44	S, US, 34
	1075	48Z	100825.00	✓	605	A4P11NR3	25	115/230	Auto.	1.8	1.00	11.16	S, MX, 16, 34
	1075	S56HZ	100806.00	✓	643	A4P11NJ2	27	115/230	Auto.	1.8	1.00	11.56	S, MX, 17, 28
	1625	56HZ	111323.00	✓	539	A6P17NR3	30	115/230	Auto.	2.6	1.00	12.56	S, US, 17, 34
1/2	1625	S56H	100768.00	✓	550	A4P17NJ2	36	115/230	Auto.	2.2	1.00	10.81	S, MX, 17
	1075	48Z	101645.00	✓	708	A4P11NR6	33	115/230	Auto.	2.8	1.00	11.16	S, MX, 16, 34
	1075	56HZ	111321.00	✓	695	A6P11NR1	37	115/230	Auto.	3.0	1.00	13.56	S, US, 17, 34
	850	48YZ	M099836.00	D	482	A4P8NR1	24	115/230	Auto.	3.0	1.00	11.55	S, CN, 19, 34, 50
	825	48YZ	A099836.00	✓	482	A4P8NR2	24	115/230	Auto.	3.2	1.00	11.55	S, MX, 19, 34, 50
	825	56HZ	111919.00	✓	861	A6P8NR2	40	115/230	Auto.	3.2	1.15	13.56	S, US, 17, 34, 50
3/4	1625	56HZ	111324.00	✓	797	A6P17NR4	34	115/230	Auto.	3.5	1.00	13.06	S, US, 17, 34
	1625	56H	111266.00	✓	797	A6P17NR1	36	115/230	Auto.	3.5	1.00	12.31	S, US, 34
	1075	56HZ	111322.00	✓	821	A6P11NR2	44	115/230	Auto.	4.0	1.00	13.56	S, US, 17, 34, 50
1	1625	56HZ	111267.00	✓	836	A6P17NR2	39	115/230	Auto.	4.4	1.00	12.81	S, US, 34

D - Item to be discontinued once inventory is depleted
Specifications are subject to change without notice

♥ Note listing on inside back flap

View On-line Technical Information



Explosion Proof
Motors

Automotive
Duty Motors

Pump
Motors

Washguard
Motors

Agricultural
Motors

HVAC / Fan
Motors

Special Voltage
Motors

Definite
Purpose Motors

Brake Motors

HVAC – Fan Motors

PSC - Variable Speed - Resilient Base - Single Phase

Features:

- Agricultural fan duty
- Extended thru-bolts
- Totally enclosed air over (TEAO) designs



Single Phase - TEAO - Resilient Base - PSC Type

HP	RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥ Notes
1/4	1625	48Z	LM24445	✓	577	SPA4S0.25TZRY1A6027AP11-1	20	115/230	Auto.	1.8	1.00	11.06	S, MX, 16
	1625	48Z	LM24447	C/A	447	SPA4S0.25TZRY1A6027AP10-1	17	115/230	Auto.	1.6	1.00	10.09	S, MX, 16
1/3	1625	48Z	LM24450	✓	634	SPA4S0.33TZRY1A6027AP11-1	23	115/230	Auto.	1.9	1.00	11.81	S, MX, 16
	1625	48Z	LM24448	✓	492	SPA4S0.33TZRY1A6027AP10-1	17	115/230	Auto.	2.2	1.00	10.09	S, MX, 16
	1075	48Z	LM24443	✓	612	SPA6S0.33TZRY1A6027AP10-1	15	115/230	Auto.	2.1	1.00	10.84	S, MX, 16
1/2	1625	48Z	LM24446	✓	703	SPA4S0.5TZRY1A6027AP11-1	23	115/230	Auto.	2.7	1.00	11.81	S, MX, 16
	1625	48Z	LM24449	✓	544	SPA4S0.5TZRY1A6027AP10-1	21	115/230	Auto.	3.0	1.00	10.84	S, MX, 16
	1075	48Z	LM24444	✓	703	SPA6S0.5TZRY1A6027AP10-1	19	115/230	Auto.	3.2	1.00	10.84	S, MX, 16

▼ LM Numbers are Lincoln Models

♥ Note listing on inside back flap

C/A - Check Availability

Specifications are subject to change without notice



Single Phase - TEAO - Rigid Base - PSC Type

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥ Notes
1/4	1750	48Y	101252.00	✓	344	A4P17NB27	19	115/208-230	Auto.	1.5	1.00	10.90	S, MX, 50
	1625	48Y	100699.00	✓	344	A4P17NB7	19	115/230	Auto.	1.4	1.00	10.65	S, MX
	1650	48Y	M099799.00	D	344	A4P17NB55	19	115/230	Auto.	1.5	1.00	10.79	S, CN
	1075	48Y	M099260.00	D	358	A4P11NB23	21	115/230	Auto.	1.2	1.00	10.83	S, CN
	1075	48Y	A099260.00	✓	358	A4P11NB52	21	115/230	Auto.	1.5	1.00	10.65	S, MX
1/3	1725	48Y	M090253.00	D	354	A4P17NB54	22	115/230	Auto.	1.8	1.00	10.47	S, CN, 50
	1750	48Y	101253.00	✓	389	A4P17NB28	22	115/208-230	Auto.	1.9	1.00	10.65	S, MX, 50
	1625	48Y	100700.00	✓	389	A4P17NB8	22	115/230	Auto.	1.6	1.00	10.65	S, MX
	1625	48Y	M099800.00	D	389	A4P17NB56	22	115/230	Auto.	1.8	1.00	10.79	S, CN
	1625	56Y	111202.00	C/A	450	A6P17NZ1	24	115/230	Auto.	1.7	1.00	12.00	S, US, 58
	1140	S56Y	100604.00	✓	455	A4P11NH1	23	115/230	Auto.	1.8	1.00	11.40	S, MX
	1075	48Y	M099261.00	D	423	A4P11NB24	21	115/230	Auto.	1.5	1.00	11.34	S, CN
	1075	48Y	A099261.00	✓	423	A4P11NB53	21	115/230	Auto.	1.8	1.00	10.90	S, MX
1/2	1750	S56Y	101176.00	✓	428	A4K17NH2	26	115/230	Auto.	3.5	1.00	10.40	S, MX, 50, 54
	1750	48Y	100701.00	✓	419	A4P17NB9	29	115/230	Auto.	2.5	1.00	12.15	S, MX
	1625	48Y	M099801.00	D	419	A4P17NB57	29	115/230	Auto.	2.5	1.00	10.79	S, CN
	1060	48Y	M099946.00	D	438	A4P11NB28	26	115/230	Auto.	2.5	1.00	11.81	S, CN
	1075	48Y	A099946.00	✓	438	A4P11NB54	26	115/230	Auto.	2.5	1.00	11.90	S, MX
3/4	1075	48Y	M099847.00	D	625	A6P11NB4	36	115/230	Auto.	3.6	1.00	13.56	S, CN
	1075	56HZ	A099847.00	✓	625	A6P11NB5	35	115/230	Auto.	3.7	1.00	13.56	S, MX

C/A - Check Availability

♥ Note listing on inside back flap

D - Item to be discontinued once inventory is depleted

Specifications are subject to change without notice



View On-line Technical Information



HVAC - Fan Motors

Grain Dryer / Centrifugal Fan Motors

Used in Ag fan and blower applications. Screens used to protect against entry of pests and and silage.

Features:

- NEMA Premium and EPEA efficiency
- Rodent screens
- Re-greasable bearings
- Cast Iron construction
- 1.25 service factor
- Class F insulation
- Inverter duty insulation system
- UL recognized and CSA certified



Three Phase - Open Drip Proof - Rigid Base

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	F.L. Eff.	"C" Dim. (Inches)	♥Notes
10	1800	215T	G151828.60	✓	1,088	C215T17DB54	168	208-230/460	25.0	89.5	16.75	C, CN
15	1800	254T	G151540.60	✓	1,601	C254T17DB12	265	208-230/460	37.6	91.0	21.89	C, CN
	1800	254T	170540.60	✓	2,076	C254T17DB45	279	208-230/460	37.0	93.0	20.94	C, CN
20	1800	256T	G151541.60	✓	1,991	C256T17DB7	307	208-230/460	48.0	91.7	23.54	C, CN
	1800	256T	170541.60	✓	2,532	C256T17DB10	324	208-230/460	51.0	93.0	22.60	C, CN
25	1800	284T	G151829.60	C/A	2,177	C284T17DB11	388	208-230/460	59.6	91.7	23.54	C, CN
30	1800	286T	G151542.60	✓	2,773	C286T17DB12	434	208-230/460	72.0	92.4	26.57	C, CN
	1800	286T	170542.60	✓	3,409	C286T17DB13	471	208-230/460	71.0	93.6	25.00	C, CN

Green items are Premium Efficient

♥ Note listing on inside back flap

C/A - Check Availability

Specifications are subject to change without notice

View On-line Technical Information



Explosion Proof
Motors

Automotive
Duty Motors

Pump
Motors

Washguard
Motors

Agricultural
Motors

HVAC / Fan
Motors

Special Voltage
Motors

Definite
Purpose Motors

Brake Motors

HVAC – Fan Motors

Crop Dryer Motors

Features:

- Open air over, fan-on-shaft design
- Continuous duty
- Thermostats provide overload protection
- Extra nameplate provided for remote mount
- Keyed shaft with 1/4-20 UNC tapped hole in end
- Grey epoxy painted
- Rodent screen protection



Single Phase - Rigid Base - Open Air Over

HP	RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
3-4.5	3600	145TZ	LM24778	✓	1,199	SSD2S3-4.5TZ1B66QS10-1	46	230	Auto	13.0	1.50	13.74	S, MX
5-7	3600	182TZ	131847.00	✓	1,408	C182C34DB2	91	230	T-Stat	27.2-35.0	1.00	16.44	S, MX
7.5-10	3600	182TZ	131848.00	✓	1,565	C182K34DB4	95	230	T-Stat	31.0-42.0	1.00	16.44	S, MX
7-10	3600	184TZ	LM24780	✓	1,962	SSD2S7-10TZ1B66QS11-1	102	230	T-Stat	31.0-42.0	1.40	15.94	S, MX
10-15	3600	215TZ	140640.00	✓	2,406	C215K34DB2	159	230	T-Stat	39.5-61.5	1.00	20.42	S, MX
	3600	215TZ	LM24782	✓	2,492	SS215D2S10-15TZ1C66QS11-1	135	230	T-Stat	39.5-61.5	1.50	18.16	S, MX
	3600	215TZ	141084.00	✓	2,406	C215K34DB3	159	230	T-Stat	40.0	1.00	20.08	S, MX, 52

▼ LM Numbers are Lincoln Models

♥ Note listing on inside back flap

Note 52 - Extra High Starting Torque

Specifications are subject to change without notice

Three Phase - Rigid Base - Open Air Over

HP	RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
5-7.5	3600	184TZ	131849.00	✓	1,140	C184T34DB8	70	208-230/460	T-Stat	19.0	1.00	13.94	S, MX
7.5-10	3600	184TZ	131850.00	✓	1,331	C184T34DB9	85	208-230/460	T-Stat	24.2	1.00	15.44	S, MX
10-15	3600	215TZ	140641.00	✓	1,606	C215T34DB3	95	208-220/440	T-Stat	40.0	1.50	17.41	S, MX

Specifications are subject to change without notice

♥ Note listing on inside back flap



View On-line Technical Information

HVAC - Fan Motors

Hatchery and Incubator Fan Motors

Features:

- Automatic overload protected
- 15MFD, 370V capacitor shipped loose with motor
- 101341.00 is a permanent split capacitor motor
- Motor 114102.00 is a split phase two-speed motor
- Double shielded ball bearings



Single Phase - TEAO

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
1/4	1625	48Y	101341.00	✓	442	A4P17NZ24	17	115/230	Auto.	2.8	1.00	8.93	S, US, 16, 34, 58
1/2-0.22	1725	56H	114102.00	✓	576	A6S46NR4	33	115	Auto.	9.3-5.6*	1.25	11.81	S, US

* Full Load amps are at high speed and low speeds, respectively at 115 volts

♥ Note listing on inside back flap

Specifications are subject to change without notice

Variable Speed - High Performance AG Fan Motors

Features:

- Water-tight connection end compartment
- Locked double sealed ball bearings
- All angle mounting
- Shaft seal on output shaft end
- Automatic overload protection



Single Phase - PSC Type - TEAO - Rigid Base - Extended Thru-Bolts

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
1/4	1625	48Y	M099899.00	D	340	A4P17NB58	18	115-208/230	Auto.	1.3	1.00	11.30	S, CN
	1625	48Y	A099899.00	✓	340	A4P17NZ139	19	115-208/230	Auto.	1.4	1.00	10.64	S, MX
	1060	48Y	M099460.00	D	367	A4P11NB25	21	115-208/230	Auto.	1.3	1.00	11.80	S, CN
	1060	48Y	A099460.00	✓	367	A4P11NB5		115-208/230	Auto.				
1/3	1625	48Y	M099900.00	D	362	A4P17NB59	19	115-208/230	Auto.	1.8	1.00	11.30	S, CN
	1625	48Y	A099900.00	✓	362	A4P17NZ141	20	115-208/230	Auto.	1.6	1.00	10.89	S, MX
	1060	48Y	M099461.00	D	392	A48P11NB26	22	115-208/230	Auto.	1.9	1.00	11.80	S, CN
	1060	48Y	A099461.00	✓	392	A4P17NZ86	23	115-208/230	Auto.	1.8	1.00	11.14	S, MX
1/2	1625	48Y	M099901.00	D	402	A4P17NB60	22	115-208/230	Auto.	2.6	1.00	11.70	S, CN
	1625	48Y	A099901.00	✓	402	A4P17NZ142	23	115-208/230	Auto.	2.7	1.00	11.39	S, MX
	1060	48Y	M099462.00	D	428	A4P11NB27	25	115-208/230	Auto.	2.8	1.00	12.20	S, CN
	1060	48Y	A099462.00	✓	428	A4P11NZ85	26	115-208/230	Auto.	2.8	1.00	11.39	S, MX

D = To be obsoleted once inventory has been depleted

♥ Note listing on inside back flap

Specifications are subject to change without notice

View On-line Technical Information



Explosion Proof
Motors

Automotive
Duty Motors

Pump
Motors

Washguard
Motors

Agricultural
Motors

HVAC / Fan
Motors

Special Voltage
Motors

Define
Purpose Motors

Brake Motors

HVAC – Fan Motors

Agricultural Fan Motors - Belt Drive - TEAO

Features:

- Capacitor start / capacitor run designs for high efficiency
- Mount in airstream for proper cooling
- Combination 56 / 140 frame stamped steel base



High Efficiency - Single Phase

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	F.L. Eff.	"C" Dim. (Inches)	♥Notes
1/2	1725	56	M009580.00	D	492	A6K17NB21	27	115/208-230	–	2.2	1.00	10.33	S, CN
	1725	56	A009580.00	✓	492	A6K17NB30	27	115/208-230	–	2.3	1.15	11.44	S, MX
3/4	1725	56H	M009581.00	D	521	A6K17NB15	30	115/208-230	Auto.	3.4	1.00	10.83	S, CN
	1725	56H	A009581.00	✓	521	A6K17NB29	30	115/208-230	Auto.	3.3	1.00	11.44	S, MX
1	1725	56H	M009782.00	D	542	A6K17NB17	37	115/208-230	Auto.	4.3	1.00	11.80	S, CN
	1725	56H	A009782.00	✓	542		37	115/208-230	Auto.		1.00		S, MX
1 1/2	1725	56H	M009594.00	D	647	A6K17NB16	39	115/208-230	Auto.	6.8	1.00	12.60	S, CN
	1725	56H	A009594.00	✓	647	A6K17NB32	39	115/208-230	Auto.	5.8	1.00	11.94	S, MX
2	1725	145T	M009595.00	D	718	M145K17NB	47	230	Auto	9.5	1.00	12.80	S, CN, *
	1725	145T	A009595.00	✓	718	U145K17NB	47	230	Auto.	9.2	1.00	13.49	S, MX

Note * = Motor M009595.00 has a frame mounted conduit box

D = Item to be obsoleted once inventory has been depleted

C/A - Check Availability

Specifications are subject to change without notice

♥ Note listing on inside back flap

Agriculture Fan

115/230 Volts - Belt Drive - Overload Protection



LM24777 is TEAO Design - Single Phase - TENV - Rigid Base

HP	RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
1/2	1725	56Z	LM24776	✓	692	SRN4S0.5TZ1B6027TP2-1	21	115/230	Auto	2.3	1.00	10.47	S, MX, 12, 53
1	1725	56Z	LM24777	✓	926	SRA4S1TZ1B6027TP2-1	32	115/230	Auto	4.6	1.00	10.72	S, MX, 53

▼ LM Numbers are Lincoln Models

Specifications are subject to change without notice

♥ Note listing on inside back flap



View On-line Technical Information



HVAC - Fan Motors

Agriculture Fan

Direct Drive Thru-Bolt Mount

Features:

- 1/2" long thru-bolts
- 48Y - 1/2" dia., 1-1/2 long shaft with flat
- 48YZ - 1/2" dia., 2-1/2" long shaft with two flats



Single Speed - Single Phase - TEAO - Thru-Bolt Mount

HP	RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 115 V	Service Factor	"C" Dim. (Inches)	♥Notes
1/4	1725	48Y	LM24488	√	421	SPN4S0.25TZNY1S6001TP1-1	10	115	Auto	4.0	1.00	7.62	S, MX

▼ LM Numbers are Lincoln Models

♥ Note listing on inside back flap

Specifications are subject to change without notice

Two Speed - Single Phase - TEAO - Thru-Bolt Mount

HP	RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 115 V	Service Factor	"C" Dim. (Inches)	♥Notes
1/4	1725	48YZ	LM24492	√	439	SPA4/6/1S0.25/0.25TZNY1S 6001TP2-1	17	115	Auto	4.1	1.00	11.09	S, MX
1/3	1725	48YZ	LM24491	√	494	SPA4/6/1S0.33/0.33TZNY1S 6001TP2-1	18	115	Auto	5.3	1.00	11.34	S, MX

▼ LM Numbers are Lincoln Models

♥ Note listing on inside back flap

Specifications are subject to change without notice

View On-line Technical Information



Explosion Proof
Motors

Automotive
Duty Motors

Pump
Motors

Washguard
Motors

Agricultural
Motors

HVAC / Fan
Motors

Special Voltage
Motors

Definite
Purpose Motors

Brake Motors

HVAC – Fan Motors

Agriculture Fan

Features:

- Single phase - 115 & 230 Volts
- Extended thru-bolts on 48Z frame motors
- 48Z - 1/2 dia. shaft, 2-1/2 long with two flats
- 56Z - 1/2 dia. shaft, 2-1/2" long shaft with keyway
- Includes 5/8" shaft adaptor sleeve with key



Single Phase - PSC Type - TEAO - Resilient Base

HP	RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
1/4	1725	48Z	LM24487	C/A	439	SPA4S0.25TZRY1S6001TP2-1	17	115	Auto	3.5	1.00	10.09	S, MX
1/3	1725	48Z	LM24486	✓	494	SPA4S0.33TZRY1S6001TP2-1	21	115	Auto	4.5	1.00	10.09	S, MX
1/2	1725	56Z	LM24809	C/A	667	SRA4S0.5TZR1S6027TP2-1	24	115/230	Auto	6.6	1.00	11.34	S, MX

▼ LM Numbers are Lincoln Models

♥ Note listing on inside back flap

C/A - Check Availability

Specifications are subject to change without notice

Aeration Fan, HVAC

115 & 230 Volts - Single Phase

Features:

- Automatic overload protected
- Sealed bearings
- 18" extended leads
- Shaft has keyway and 1/4-20 UNC tapped hole on end of shaft

Single Phase - TEAO - Rigid Base

HP	RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
1	3600	56Z	LM24786	✓	536	SRA2S1TZ1C6027L10MB6TP2-1	29	115/230	Auto	5.6	1.15	10.94	S, MX
1 1/2	3600	143TZ	LM24787	✓	608	SSA2S1.5TZ1C6027L10MB6TP2-1	35	115/230	Auto	8.4	1.15	11.49	S, MX
3	3600	145TZ	LM24788	✓	749	SS145A2S3TZ1B66L10MB6TP2-1	52	230	Auto	11.8	1.15	13.49	S, MX

▼ LM Numbers are Lincoln Models

♥ Note listing on inside back flap

Specifications are subject to change without notice



View On-line Technical Information





HVAC - Fan Motors

TEAO Cooling Tower Single Speed Motors



Applications:

Cooling towers, Fan and Blowers, and other severe duty environments where long life and high efficiency are desired.

Features:

- Complete cast iron construction for rigidity and reduced vibration
- Epoxy painted
- Severe duty treatment of internal parts
- Class F insulation
- F-1 / F-2 Capable
- Re-greaseable bearings
- Brass T-drain installed - both ends at 6:00
- Inpro Shaft seal protected
- Shaft grounding ring (SGRs) installed
- Inverter rated IRIST™ insulation system
- 10 : 1 constant and variable torque rated
- Extra nameplate with CE for external mounting
- Designed for shaft up mounting
- Two year warranty
- 1.15 S.F. under sine wave power

Three Phase - TEAO - Rigid Base

HP	RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 115 V	% F. L. Eff.	"C" Dim. (Inches)	♥ Notes
3	1800	182T	824528.00	✓	1,262	182TTTN16569	123	230/460	8.0	90.2	13.82	C, US
5	1800	184T	824529.00	✓	1,379	184TTTN16542	155	230/460	12.4	90.2	15.82	C, US
7.5	1800	213T	824530.00	✓	1,740	213TTTN16536	225	230/460	19.2	91.7	17.47	C, US
10	1800	215T	824531.00	✓	1,993	215TTTN16537	300	230/460	25.0	91.7	20.47	C, US
15	1800	254T	824532.00	✓	2,571	254TTTNA14533	240	230/460	39.0	91.0	20.95	C, US
20	1800	256T	824533.00	✓	3,023	256TTTNA14533	400	230/460	50.0	91.0	22.70	C, US
25	1800	284T	824534.00	✓	3,595	284TTTNA14536	500	230/460	63.0	92.4	26.97	C, US
30	1800	286T	824535.00	✓	4,192	286TTTPA14531	400	230/460	74.0	92.4	26.19	C, US
40	1800	324T	824536.00	✓	5,434	324TTTPA14532	550	230/460	100.0	93.0	28.10	C, US
50	1800	326T	824537.00	✓	6,844	326TTTPA14532	600	230/460	122.0	93.0	29.60	C, US
60	1800	364T	824538.00	✓	9,578	364TTTS14531	850	230/460	144.0	93.6	28.88	C, US
75	1800	365T	824539.00	✓	11,924	365TTTS14533	1000	230/460	178.0	94.1	29.88	C, US
100	1800	405T	824540.00	✓	14,765	405TTTS14531	1250	230/460	228.0	94.5	34.25	C, US
125	1800	444T	824541.00	✓	19,009	444TTTN14531	1990	460	143*	94.5	40.03	C, US
150	1800	445T	824542.00	✓	22,635	445TTTN14532	2343	460	172*	95.0	40.03	C, US
200	1800	445T	824543.00	✓	27,017	445TTTN14533	2556	460	225*	95.0	40.03	C, US
250	1800	445T	824544.00	✓	26,107	449TTTS14531	2409	460	290*	95.0	48.41	C, US

* - Amps at 460 Volts

♥ Note listing on inside back flap

Specifications are subject to change without notice

View On-line Technical Information



Explosion Proof
Motors

Automotive
Duty Motors

Pump
Motors

Washguard
Motors

Agricultural
Motors

HVAC / Fan
Motors

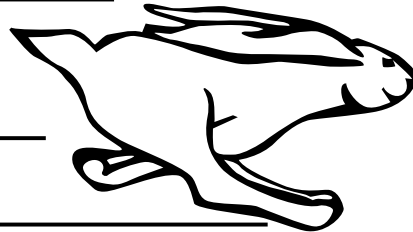
Special Voltage
Motors

Definite
Purpose Motors

Brake Motors

Custom Multi-Speed Low-Speed and Modified Motors

Custom **PDQ**



PDQ Modular Production Program

Custom Multi-Speed, Low Speed and Modified Motors,
one or several at a time, on a quick turnaround basis.

LEESON's "Modular Production" utilizes specially designed and standard components to make almost any imaginable NEMA frame multi-speed or low-speed motor available when you need it.

Quick Turnaround-LEESON's Custom PDQ can provide quick answers to inquiries and fast turnaround for orders of highly customized motors.

Comprehensive Catalog - Features the Industry's most extensive two-speed and low speed motor selection as well as a listing of commonly requested modifications. Call for your copy of LEESON Catalog 1057 - Multi-Speed, Low-Speed and Modified Motors.

Full Fact Acknowledgement - With Custom PDQ all custom motors are promptly and fully acknowledged upon receipt of order. The acknowledgement includes the complete motor specification pricing and shipping date.

Motors of 254T frame and larger are of cast iron construction with all the rugged features of LEESON's stock single-speed motors described on pages 28 & 29 of this catalog. All two-speed designs are class F insulated and have a 1.15 S.F.



Whether for the everyday or not-so-everyday needs, Custom PDQ gives you the ability to say "Yes" to requests for customized motors.

Multi-speed

Two, three and four-speed motors

Low Speed

900, 720, 600, 450 and 300 rpm

Modified as per Catalog 1057 - Some examples are:

- Anti-condensation heaters
- Brakemotors, custom
- Cooling tower specifications
- Downsized frames
- Epoxy and fungus proofing
- 50 Hz
- Premium-efficiency, North American manufacture
- Insulation, special
- Marine duty (below deck)
- Part winding (low and high voltages)
- Shafts, modified
- Thermostats
- Thermistors
- Washdown service
- IEEE841 conversion of WATSAVER® motors
- Voltages (non-standard)

...and many more

For quotations, availability, and application assistance phone toll-free to our Canadian manufacturing facility.

CUSTOM PDQ
1-800-463-1797

CUSTOMIZED AND MODIFIED PRODUCTS

CUSTOM MOTORS, GEARBOXES & GEARMOTORS

LEESON is a leading designer and manufacturer of application-specific AC and DC motors and gearmotors in sub-fractional, fractional and integral horsepower sizes. We offer a database of over 30,000 custom designs, experienced application and design engineering teams, to ensure the best, most cost-effective custom motor solution.

CUSTOM MULTI-SPEED & LOW-SPEED MOTORS

LEESON's PDQ Modular Production Program utilizes specially designed and standard components to make almost any imaginable NEMA frame multi-speed or low-speed motor available when you need it. We pride ourselves on fast turnaround times on highly customized motors.

Custom motors include two, three and four-speed motors and speed ranges of 900, 720, 600, 450 and 300 RPMs. We also specialize in non-standard shaft designs.

For quotations, availability and application assistance, phone toll-free to our Canadian manufacturing facility at 1-800-463-1797.



Explosion Proof
Motors

Automotive
Duty Motors

Pump
Motors

Washguard
Motors

Agricultural
Motors

HVAC / Fan
Motors

Special Voltage
Motors

Definite
Purpose Motors

Brake Motors

Special Voltage Motors

**General Purpose – Totally Enclosed & Drip-Proof - 575 Volt - 200/400 Volt
50 HZ - Medium Voltage Designs
Steel Frame – Aluminum Frame – Cast Iron Frame**



- Standard, EPM and Premium efficient ratings
- Inverter rated
- Class B insulation systems – 42, 48 and 56 frames
- Class F insulation system – 140 frame and higher
- Shielded ball bearings for direct coupled applications. Contact your local sales office for belted load applications
- Rolled steel, aluminum, and cast iron frame material designs
- Continuous duty
- Dynamically balanced rotors
- Torques exceed NEMA performance standards
- UL recognized and CSA certified

Applications:

For use where special voltages are required. Ideally suited for use on pumps, compressors, fans, blowers, conveyors, machine tools and other industrial applications



Special Voltage Motors

575 Volt - Three Phase - TEFC



Three Phase - TEFC - Rigid Base

HP	RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 575 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥ Notes
1/2	3600	56	110714.00	✓	405	C6T34NB6	25	575	0.6	82.5	1.15	10.40	S, US, 12
	1800	56	110199.00	✓	442	C6T17NB4	25	575	0.8	78.5	1.15	9.88	S, US, 12
	1800	56	LM24154	✓	461	SRF4S.5T65	22	575	0.9	70.0	1.25	10.72	S, MX
	1800	S56	101051.00	✓	442	C4T17FH3	24	575	0.8	68.0	1.15	9.94	S, MX
	1200	56	LM24295	C/A	666	SRF6S0.5T65	24	575	1.1	68.0	1.15	11.82	S, MX
3/4	3600	56	110354.00	✓	446	C6T34FB8	22	575	0.9	75.5	1.15	10.81	S, US
	1800	56	110178.00	✓	469	C6T17FB3	22	575	1.1	77.0	1.15	10.81	S, US
	1200	56	111394.00	✓	668	C6T11FB8	30	575	1.2	75.5	1.15	11.81	S, US
1	3600	56	110715.00	✓	521	C6T34FB15	24	575	1.3	77.0	1.15	10.81	S, US
	1800	56	110206.00	✓	493	C6T17FB4	24	575	1.5	77.0	1.15	11.31	S, US
	1800	56	LM25097	✓	512	SRF4S1T65	27	575	1.5	77.0	1.15	12.32	S, MX
	1800	143T	121937.00	✓	752	C143T17FB29	32	575	1.1	85.5	1.15	13.25	S, US
	1800	143T	LM24109	✓	574	SSF4P1T65	36	575	1.2	82.5	1.25	12.87	S, MX
	1200	145T	121938.00	✓	889	C145T11FB31	47	575	1.4	82.5	1.25	13.75	S, US
1 1/2	3600	145T	121939.00	✓	768	C145T34FB41	33	575	1.6	84.0	1.25	13.25	S, US
	1800	56	110893.00	✓	555	C6T17FB37	30	575	2.0	78.5	1.15	11.81	S, US
	1800	145T	121940.00	✓	780	C145T17FB90	34	575	1.8	86.5	1.15	13.75	S, US
	1800	145T	LM24142	C/A	549	SSF4P1.5T65	48	575	1.7	84.0	1.15	14.37	S, MX
	1200	182T	132251.00	✓	1,295	C182T11FB13	89	575	2.5	87.5	1.15	15.96	S, MX
2	3600	56H	LM25100	✓	656	SRF2S2T65	39	575	2.8	80.0	1.15	11.82	S, US
	3600	145T	121941.00	✓	840	C145T34FB42	44	575	2.1	85.5	1.15	13.75	S, US
	3600	145T	LM25103	✓	714	SSF2P2T65	39	575	2.1	84.0	1.25	13.37	S, US
	1800	145T	LM24108	✓	577	SSF4PT65	45	575	2.2	84.0	1.25	13.87	S, MX
	1800	145T	121942.00	✓	812	C145T17FB91	45	575	2.2	86.5	1.15	14.76	S, US
	1200	184T	132252.00	✓	1,319	C184T11FB26	92	575	2.9	88.5	1.15	15.96	S, MX

Green items are Premium Efficient

♥ Note listing on inside back flap

▼ LM Numbers are Lincoln Models

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Note 12 - TENV

C/A - Check Availability

Other stock 575V motors are available from LEESON through our Canadian facility.

Contact LEESON for availability.

Specifications are subject to change without notice

View On-line Technical Information



Explosion Proof
Motors

Automotive
Duty Motors

Pump
Motors

Washguard
Motors

Agricultural
Motors

HVAC / Fan
Motors

Special Voltage
Motors

Definite
Purpose Motors

Brake Motors

Special Voltage Motors

575 Volt - Three Phase - TEFC

Three Phase - TEFC - Rigid Base

HP	RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 575 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
3	3600	182T	171624.60	✓	1,166	C182T34FB7	66	575	3.0	86.5	1.15	13.96	C, CN
	3600	182T	LM16383	C/A	859	AF2P3T65	72	575	3.0	85.5	1.25	14.19	A, US
	1800	182T	132253.00	✓	919	C182T17FB52	80	575	3.3	89.5	1.15	14.96	S, MX
	1800	182T	LM16384	D	774	AF4P3T65	77	575	3.4	87.5	1.25	14.19	A, US
	1800	182T	LM33603	C/A	774	AF4P3T65AP26	77	575	3.4	87.5	1.25	14.19	A, MX
5	3600	184T	132254.00	✓	1,042	C184T34FB24	88	575	4.8	88.5	1.15	16.46	S, MX
	1800	184T	132255.00	✓	1,010	C184T17FB64	94	575	5.2	89.5	1.15	15.96	S, MX
	1800	184T	LM16387	D	894	AF4P5T65	88	575	5.2	87.5	1.25	15.19	A, US
	1800	184T	LM33488	✓	894	AF4P5T65AP26	88	575	5.2	87.5	1.25	14.96	A, MX
	1200	215T	LM16388	✓	1,621	AF6P5T65	155	575	6.0	87.5	1.25	18.70	A, US
	900	254T	LM33171	C/A	2,630	AF8P5T65	165	575	6.0	85.5	1.15	23.40	A, US
	7 1/2	3600	213T	✓	1,487	C213T34FB43	156	575	7.4	90.2	1.25	19.84	C, CN
7 1/2	1800	213T	141116.00	✓	1,297	C213T17FB20	144	575	8.2	91.7	1.25	18.70	S, MX
	1800	213T	LM16391	✓	1,436	AF4P7.5T65	160	575	8.0	91.0	1.25	19.70	A, US
	10	3600	215T	✓	1,761	C215T34FB48	181	575	9.5	91.7	1.25	19.61	C, CN
10	1800	215T	170212.60	✓	1,710	C215T17FB44	177	575	10.1	91.7	1.25	19.61	C, CN
	1800	215T	LM16395	✓	1,588	AF4P10T65	138	575	10.8	89.5	1.25	18.70	A, US

Green items are Premium Efficient

♥ Note listing on inside back flap

▼ LM Numbers are Lincoln Models

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C/A - Check Availability

Other stock 575V motors are available from LEESON through our Canadian facility.
Contact LEESON for availability.

Specifications are subject to change without notice



View On-line Technical Information



Special Voltage Motors

575 Volt - Three Phase - TEFC

Three Phase - TEFC - Rigid Base

HP	RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 575 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥ Notes
15	3600	254T	170198.60	✓	2,392	C254T34FB5	282	575	13.8	92.4	1.25	23.19	C, CN
	1800	254T	170116.60	✓	2,734	C254T17FB11	280	575	14.8	92.4	1.25	23.19	C, CN
	1800	254T	LM16400	✓	2,750	AF4P15T65	240	575	15.6	91.0	1.25	23.40	A, US
20	3600	256T	170199.60	✓	2,925	C256T34FB11	316	575	18.4	92.4	1.25	24.92	C, CN
	1800	256T	170117.60	✓	2,896	C256T17FB5	322	575	19.2	93.0	1.25	24.92	C, CN
	1800	256T	LM15919	✓	2,420	AF4B20T65	236	575	20.0	91.0	1.25	25.15	A, US
25	3600	284TS	170224.60	✓	3,803	C284T34FB6	383	575	22.0	93.0	1.25	24.88	C, CN
	1800	284T	170118.60	✓	3,592	C284T17FB6	385	575	23.7	93.6	1.25	26.26	C, CN
	1800	284T	LM16407	C/A	3,438	AF4P25T65	320	575	26.4	92.4	1.25	26.62	A, US
30	3600	286TS	170228.60	✓	4,489	C286T34FB6	385	575	26.2	93.0	1.25	26.46	C, CN
	1800	286T	170119.60	✓	4,184	C286T17FB6	432	575	29.0	94.1	1.25	27.83	C, CN
	1800	286T	LM19595	C/A	3,867	AF4P30T65Y	585	575	30.5	92.4	1.25	28.12	A, US
40	3600	324TS	170232.60	✓	5,599	C324T34FB4	504	575	36.0	93.6	1.25	28.03	C, CN
	1800	324T	170120.60	✓	5,558	C324T17FB6	528	575	38.1	94.1	1.25	29.53	C, CN
	1800	324T	LM14408	C/A	8,450	SF4B40T65Y	504	575	42.4	94.1	1.25	28.50	S, US
50	3600	326TS	LM14410	C/A	7,596	SF2B50TS65Y	558	575	45.0	93.0	1.15	28.50	S, US
	3600	326TS	LM14398	C/A	6,568	SF2P50TS65Y	558	575	45.0	92.4	1.15	28.50	S, US
	1800	326T	170121.60	✓	6,713	C326T17FB8	587	575	46.7	94.5	1.25	31.02	C, CN
	1800	326T	LM14399	✓	5,589	SF4P50T65Y	558	575	51.6	93.0	1.25	30.00	S, US

Green items are Premium Efficient

♥ Note listing on inside back flap

▼ LM Numbers are Lincoln Models

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C/A - Check Availability

Other stock 575V motors are available from LEESON through our Canadian facility.
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View On-line Technical Information



Explosion Proof
Motors

Automotive
Duty Motors

Pump
Motors

Washguard
Motors

Agricultural
Motors

HVAC / Fan
Motors

Special Voltage
Motors

Definite
Purpose Motors

Brake Motors

Special Voltage Motors

575 Volt - Three Phase - TEFC

Three Phase - TEFC - Rigid Base

HP	RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 575 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
60	3600	364TS	LM18370	C/A	9,420	SF2B60TS65Y	765	575	53.0	95.0	1.25	29.77	S, US
	3600	364TS	LM18367	C/A	9,814	SF2P60TS65Y	765	575	53.0	93.0	1.25	29.77	S, US
	1800	364T	170239.60	✓	9,548	C364T17FB7	988	575	54.4	95.4	1.25	32.64	C, CN
	1800	364T	LM18366	C/A	8,087	SF4P60T65Y	765	575	58.0	93.6	1.25	31.90	S, US
75	3600	365TS	LM18376	C/A	12,137	SF2B75TS65Y	822	575	66.5	95.0	1.25	30.77	S, US
	3600	365TS	LM18373	C/A	10,394	SF2P75TS65Y	822	575	66.5	93.0	1.25	30.77	S, US
	1800	365T	170244.60	✓	11,915	C365T17FB5	1050	575	68.7	95.8	1.25	33.62	C, CN
	1800	365T	LM18372	✓	10,201	SF4P75T65Y	822	575	73.0	94.1	1.25	32.90	S, US
	3600	405TS	LM18290	C/A	14,221	SF2P100TS65Y	1002	575	85.0	94.1	1.15	35.40	S, US
	1800	405T	170253.60	C/A	14,817	C405T17FB5	1070	575	89.6	95.4	1.25	37.91	C, CN
	1800	405T	LM18292	C/A	12,324	SF4P100T65Y	1002	575	97.5	94.5	1.15	38.40	S, US
	1200	444T	LM15121	C/A	20,394	SF6B100T65Y	1351	575	109.0	95.4	1.15	41.58	S, US
125	3600	444TS	LM15119	C/A	21,868	SF2B125TS65Y	1351	575	106.0	95.8	1.15	37.49	S, US
	3600	444TS	LM15078	C/A	17,320	SF2P125TS65Y	1351	575	106.0	94.5	1.15	37.49	S, US
	1800	444T	LM15079	C/A	16,473	SF4P125T65Y	1351	575	117.0	94.5	1.15	41.58	S, US
	3600	445TS	LM15084	C/A	21,435	SF2P150TS65Y	1504	575	—	94.5	1.15	—	S, US
	1800	445T	LM15126	C/A	23,712	SF4B150T65Y	1531	575	136.0	96.2	1.15	43.56	S, US
	1800	445T	LM15085	C/A	19,108	SF4P150T65Y	1531	575	136.0	95.0	1.15	43.56	S, US
200	3600	445TS	LM15122	C/A	34,298	SF2B200TS65Y	1531	575	—	96.2	1.15	—	S, US
	3600	445TS	LM15081	C/A	27,164	SF2P200TS65Y	1504	575	—	95.0	1.15	—	S, US
	1800	445T	LM15123	C/A	28,545	SF4B200T65Y	1531	575	188.0	96.2	1.15	43.58	S, US
	1800	445T	LM15082	✓	23,632	SF4P200T65Y	1531	575	188.0	95.0	1.15	43.58	S, US

Green items are Premium Efficient

♥ Note listing on inside back flap

▼ LM Numbers are Lincoln Models

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C/A - Check Availability

Other stock 575V motors are available from LEESON through our Canadian facility.
Contact LEESON for availability.

Specifications are subject to change without notice



View On-line Technical Information



Special Voltage Motors

575 Volt - Three Phase - TEFC

Three Phase - TEFC - Rigid Base

HP	RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 575 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
250	3600	447TS	LM15087	C/A	32,812	SF2P250TS65Y	1812	575	—	95.4	1.00	—	S, US
	1800	447T	LM15130	C/A	34,065	SF4B250T65Y	1812	575	226	95.4	1.15	47.08	S, US
	1800	447T	LM15092	C/A	28,206	SF4P250T65Y	1812	575	231	95.0	1.15	—	S, US
300	3600	449TS	LM15138	C/A	51,582	S449F2B300TS65Y	2185	575	—	96.2	1.15	—	S, US
	3600	449TS	LM15098	C/A	40,104	S449F2P300TS65Y	2185	575	—	95.4	1.15	—	S, US
	1800	447T	LM15129	C/A	37,291	SF4B300T65Y	1812	575	282	96.2	1.15	47.08	S, US
	1800	447T	LM15089	C/A	29,489	SF4P300T65Y	1800	575	282	95.4	1.00	47.08	S, US

Green items are Premium Efficient

♥ Note listing on inside back flap

▼ LM Numbers are Lincoln Models

C/A - Check Availability

Other stock 575V motors are available from LEESON through our Canadian facility.
Contact LEESON for availability.

Specifications are subject to change without notice

575 Volt - TEFC - C Face Less Base

Three Phase - TEFC - C Face Less Base

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 575 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
1/2	1800	56C	110176.00	✓	469	C6T17NC10	20	575	0.8	79.0	1.15	9.94	S, US, 12
3/4	1800	56C	110177.00	✓	503	C6T17FC7	21	575	1.1	77.0	1.15	10.81	S, US, 13
1	1800	56C	110204.00	✓	538	C6T17FC8	30	575	1.5	77.0	1.15	11.31	S, US, 13
	1800	143TC	G120176.00	✓	554	C143T17FC22	32	575	1.2	82.5	1.15	12.25	S, US, 13
1 1/2	1800	56C	111444.00	✓	570	C6T17FC39	33	575	2.0	78.5	1.15	11.81	S, US, 13
	1800	145TC	G120177.00	✓	600	C145T17FC61	31	575	1.8	84.0	1.15	12.75	S, US, 13
2	3600	56C	111611.00	✓	629	C6T34FC26	34	575	2.2	82.5	1.15	12.31	S, US, 13
	1800	145TC	G120178.00	✓	640	C145T17FC60	45	575	2.3	84.0	1.15	13.75	S, US, 13
3	1800	182TC	G131498.00	✓	736	C182T17FC36	68	575	3.3	87.5	1.15	13.97	S, MX, 13
5	1800	184TC	G131499.00	✓	888	C184T17FC47	76	575	5.2	87.5	1.15	14.97	S, MX, 13

Note 12 - TENV

♥ Note listing on inside back flap

Specifications are subject to change without notice

View On-line Technical Information



Explosion Proof
Motors

Automotive
Duty Motors

Pump
Motors

Washguard
Motors

Agricultural
Motors

HVAC / Fan
Motors

Special Voltage
Motors

Definite
Purpose Motors

Brake Motors

Special Voltage Motors

TEFC - 575 Volt - C Face With Base

Three Phase - TEFC - C Face With Base

HP	RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 575 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
1/2	1800	56C	LM24355	C/A	511	SRF4S0.5TC65	18	575	0.9	70.0	1.15	10.69	S, MX
3/4	1800	56C	LM24354	C/A	545	SRF4S0.75TC65	21	575	1.1	75.5	1.15	11.19	S, MX
1	3600	56C	LM25045	C/A	586	SRF2S1TC65	25	575	1.5	74.0	1.15	11.81	S, US
	1800	56C	LM25046	✓	565	SRF4S1TC65	26	575	1.4	77.0	1.15	12.31	S, MX
	1800	143TC	LM25051	C/A	590	SSF4P1TC65	41	575	1.2	82.5	1.25	12.87	S, MX
1 1/2	3600	56C	LM25047	C/A	597	SRF2S1.5TC65	41	575	1.9	80.0	1.15	12.32	S, MX
	1800	56HC	LM25048	✓	597	SRF4S1.5TC65	31	575	1.9	80.0	1.15	12.32	S, MX
	1800	145TC	LM24158	✓	600	SSF4P1.5TC65	49	575	1.7	84.0	1.15	14.37	S, MX
2	3600	56HC	LM25049	C/A	708	SRF2S2TC65	31	575	2.4	80.0	1.15	12.32	S, US
	1800	56HC	LM25050	✓	606	SRF4S2TC65	50	575	2.3	82.5	1.15	13.82	S, US
	1800	145TC	LM24137	C/A	630	SSF4P2TC65	47	575	2.3	84.0	1.15	13.87	S, MX
3	3600	182TC	LM33611	C/A	1,175	AF2B3TC65AP26	95	575	3.1	87.5	1.25	15.19	A, MX
	3600	182TC	LM33612	C/A	940	AF2P3TC65AP26	95	575	3.0	85.5	1.25	14.19	A, MX
	1800	182TC	LM33613	C/A	1,041	AF4B3TC65AP26	95	575	3.2	89.5	1.25	15.19	A, MX
	1800	182TC	LM33614	C/A	851	AF4P3TC65AP26	95	575	3.4	87.5	1.25	14.19	A, MX
5	3600	184TC	LM33615	C/A	1,340	AF2B5TC65AP26	104	575	5.0	88.5	1.25	15.19	A, MX
	3600	184TC	LM33616	C/A	1,123	AF2P5TC65AP26	104	575	5.0	87.5	1.25	15.19	A, MX
	1800	184TC	LM33617	C/A	1,207	AF4B5TC65AP26	104	575	5.0	89.5	1.25	16.19	A, MX
	1800	184TC	LM16593	✓	973	AF4P5TC65	104	575	5.2	87.5	1.25	15.19	A, MX
	1200	215TC	LM16594	C/A	1,714	AF6P5TC65	149	575	6.0	87.5	1.25	18.70	A, US

Green items are Premium Efficient

♥ Note listing on inside back flap

▼ LM Numbers are Lincoln Models

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View On-line Technical Information



Special Voltage Motors

TEFC - 575 Volt - C Face With Base

Three Phase - TEFC - C Face With Base

HP	RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 575 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
7 1/2	3600	213TC	LM17186	C/A	1,624	AF2B7.5TC65	138	575	7.2	91.0	1.25	17.20	A, US
	3600	213TC	LM16595	✓	1,421	AF2P7.5TC65	175	575	7.2	88.5	1.25	17.20	A, US
	1800	213TC	LM17187	C/A	1,566	AF4B7.5TC65	138	575	8.0	91.0	1.25	19.70	A, US
	1800	213TC	LM16596	C/A	1,404	AF4P7.5TC65	127	575	8.0	89.5	1.25	19.70	A, US
10	3600	215TC	LM17189	C/A	2,028	AF2B10TC65	149	575	9.4	91.0	1.25	19.61	A, US
	3600	215TC	LM16598	C/A	1,854	AF2P10TC65	210	575	9.4	89.5	1.25	19.61	A, US
	1800	215TC	LM17190	C/A	1,953	AF4B10TC65	149	575	10.8	91.0	1.25	18.70	A, US
	1800	215TC	LM16599	✓	1,488	AF4P10TC65	200	575	10.8	89.5	1.25	18.70	A, US
15	3600	254TC	LM17192	C/A	2,674	AF2B15TC65	221	575	13.8	91.7	1.25	23.19	A, US
	3600	254TC	LM16601	C/A	2,486	AF2P15TC65	185	575	13.8	90.2	1.25	23.19	A, US
	1800	254TC	LM17193	C/A	2,409	AF4B15TC65	221	575	15.6	92.4	1.25	23.40	A, US
	1800	254TC	LM16602	✓	2,162	AF4P15TC65	260	575	15.6	91.0	1.25	23.40	A, US
20	3600	256TC	LM17195	C/A	3,159	AF2B20TC65	248	575	18.8	91.7	1.25	24.24	A, US
	3600	256TC	LM16604	C/A	2,701	AF2P20TC65	248	575	18.8	90.2	1.25	24.24	A, US
	1800	256TC	LM17196	C/A	2,991	AF4B20TC65	248	575	21.0	93.0	1.25	25.15	A, US
	1800	256TC	LM16605	✓	2,544	AF4P20TC65	300	575	20.0	91.0	1.25	25.15	A, US
25	3600	284TSC	LM17198	C/A	4,425	AF2B25TSC65	370	575	22.8	93.0	1.25	25.12	A, US
	3600	284TSC	LM16607	C/A	3,650	AF2P25TSC65	370	575	22.8	91.0	1.25	25.12	A, US
	1800	284TC	LM17199	C/A	4,010	AF4B25TC65	370	575	26.4	94.1	1.25	26.62	A, US
	1800	284TC	LM16608	C/A	3,448	AF4P25TC65	370	575	26.4	92.4	1.25	26.62	A, US
30	3600	286TSC	LM20087	C/A	4,942	AF2B30TSC65Y	415	575	26.4	93.0	1.25	26.62	A, US
	3600	286TSC	LM19596	C/A	4,260	AF2P30TSC65Y	415	575	28.0	91.0	1.25	26.62	A, US
	1800	286TC	LM20088	C/A	5,211	AF4B30TC65Y	415	575	30.0	94.5	1.25	28.12	A, US
	1800	286TC	LM19597	✓	4,080	AF4P30TC65Y	415	575	30.5	92.4	1.25	28.12	A, US
40	3600	324TSC	LM14561	C/A	6,337	SF2B40TSC65Y	514	575	36.0	94.1	1.25	28.03	S, US
	3600	324TSC	LM14549	C/A	5,526	SF2P40TSC65Y	514	575	36.0	91.7	1.25	28.03	S, US
	1800	324TC	LM14562	C/A	6,105	SF4B40TC65Y	514	575	42.4	94.1	1.25	28.50	S, US
	1800	324TC	LM14550	C/A	5,331	SF4P40TC65Y	518	575	42.4	93.0	1.25	28.50	S, US
50	3600	326TSC	LM14564	C/A	7,947	SF2B50TSC65Y	568	575	45.0	94.1	1.25	28.50	S, US
	3600	326TSC	LM14552	✓	6,922	SF2P50TSC65Y	568	575	45.0	92.4	1.25	28.50	S, US
	1800	326TC	LM14565	C/A	7,257	SF4B50TC65Y	568	575	51.6	95.0	1.25	30.00	S, US
	1800	326TC	LM14553	C/A	5,951	SF4P50TC65Y	568	575	51.6	93.0	1.25	30.00	S, US

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▼ LM Numbers are Lincoln Models

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Explosion Proof
Motors

Automotive
Duty Motors

Pump
Motors

Washguard
Motors

Agricultural
Motors

HVAC / Fan
Motors

Special Voltage
Motors

Definite
Purpose Motors

Brake Motors

Special Voltage Motors

TEFC - 575 Volt - C Face With Base

Three Phase - TEFC - C Face With Base

HP	RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 575 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
60	3600	364TSC	LM20037	C/A	9,982	SF2B60TSC65Y	777	575	53.0	95.0	1.25	29.77	S, US
	3600	364TSC	LM19600	C/A	8,628	SF2P60TSC65Y	777	575	53.0	93.0	1.25	29.77	S, US
	1800	364TC	LM20038	C/A	10,399	SF4B60TC65Y	778	575	58.0	95.0	1.25	31.90	S, US
	1800	364TC	LM19603	C/A	8,663	SF4P60TC65Y	778	575	58.0	93.6	1.25	31.90	S, US
75	3600	365TSC	LM20040	C/A	12,702	SF2B75TSC65Y	834	575	66.5	95.0	1.25	30.77	S, US
	3600	365TSC	LM19602	C/A	10,958	SF2P75TSC65Y	834	575	66.5	93.0	1.25	30.77	S, US
	1800	365TC	LM20041	C/A	12,595	SF4B75TC65Y	834	575	73.0	95.0	1.15	32.90	S, US
	1800	365TC	LM15921	C/A	10,764	SF4P75TC65Y	835	575	73.0	94.1	1.25	32.90	S, US
100	3600	405TSC	LM20043	C/A	17,723	SF2B100TSC65Y	1018	575	84.0	95.8	1.15	— —	S, US
	3600	405TSC	LM19605	C/A	14,890	SF2P100TSC65Y	1018	575	85.0	93.6	1.15	— —	S, US
	1800	405TC	LM20044	C/A	15,841	SF4B100TC65Y	1001	575	97.5	95.4	1.15	— —	S, US
	1800	405TC	LM19606	C/A	13,010	SF4P100TC65Y	1018	575	96.0	94.5	1.15	36.87	S, US

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Special Voltage Motors

575 Volt Motors - Drip-Proof - Rigid Base



Three Phase - Drip-Proof - Rigid Base

HP	RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 575 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥ Notes
1/3	1800	56	LM25054	✓	351	SRD4S0.33T65	15	575	0.6	65.5	1.15	9.97	S, MX
1/2	1800	56	LM24161	✓	405	SRD4S0.5T65	17	575	0.9	70.0	1.25	10.47	S, MX
3/4	1800	56	LM25057	C/A	448	SRD4S0.75T65	20	575	1.2	75.5	1.15	10.44	S, MX
1	3600	56	LM25058	C/A	480	SRD2S1T65	24	575	1.5	74.0	1.25	10.44	S, US
	1800	56	LM25059	✓	466	SRD4S1T65	22	575	1.5	77.0	1.15	10.94	S, US
1 1/2	3600	56	LM25060	C/A	538	SRD2S1.5T65	23	575	2.0	80.0	1.15	10.44	S, US
	1800	56H	LM25061	✓	495	SRD4S1.5T65	28	575	1.9	80.0	1.15	10.94	S, MX
2	3600	56H	LM25062	✓	629	SRD2S2T65	25	575	2.5	80.0	1.15	10.44	S, US
	1800	56H	LM25063	✓	610	SRD4S2T65	36	575	2.5	81.5	1.15	11.94	S, US
3	3600	145T	LM25068	C/A	627	SSD2P3T65	33	575	—	84.0	1.25	—	S, US
	1800	182T	LM24227	C/A	604	SSD4P3T65	83	575	3.0	86.5	1.25	13.72	S, MX
5	3600	182T	LM25069	C/A	703	SSD2P5T65	88	575	—	86.5	1.25	—	S, MX
	1800	184T	LM25070	C/A	673	SSD4P5T65	87	575	5.3	87.5	1.25	14.22	S, MX
7 1/2	3600	184T	LM25071	✓	968	SSD2P7.5T65	88	575	7.1	87.5	1.15	14.72	S, MX
	1800	213T	LM33247	C/A	950	SSD4P7.5T65	121	575	—	88.5	1.25	—	S, MX
10	1800	215T	LM24231	✓	1,166	SSD4P10T65	138	575	10.0	89.5	1.25	17.29	S, MX
15	1800	254T	LM24219	C/A	1,686	SSD4P15T65	215	575	15.3	91.0	1.25	22.32	S, US
20	1800	256T	LM24232	✓	2,118	SSD4P20T65	233	575	20.8	91.0	1.25	22.32	S, US
25	1800	284T	LM29581	C/A	2,872	CCD4P25T65Y	350	575	24.4	91.7	1.25	23.49	C, US
30	1800	286T	LM29865	C/A	3,332	CCD4P30T65Y	400	575	28.8	92.4	1.25	24.99	C, US
40	1800	324T	LM14402	C/A	4,738	SD4P40T65Y	469	575	42.5	93.0	1.25	25.82	S, US
50	1800	326T	LM14405	✓	5,061	SD4P50T65Y	522	575	52.0	93.0	1.25	27.32	S, US

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Explosion Proof
Motors

Automotive
Duty Motors

Pump
Motors

Washguard
Motors

Agricultural
Motors

HVAC / Fan
Motors

Special Voltage
Motors

Definite
Purpose Motors

Brake Motors

Special Voltage Motors

575 Volt Motors - Drip-Proof - Rigid Base

Three Phase - Drip-Proof - Rigid Base

HP	RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 575 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
60	1800	364T	LM18378	C/A	7,132	SD4P60T65Y	712	575	58	93.6	1.25	28.40	S, US
75	1800	365T	LM18384	C/A	7,774	SD4P75T65Y	763	575	75	94.1	1.25	29.40	S, US
100	1800	404T	LM18298	C/A	8,261	SD4P100T65Y	882	575	96	94.1	1.25	31.81	S, US
125	1800	405T	LM18306	C/A	9,512	SD4P125T65Y	958	575	152	95.4	1.25	33.31	S, US

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Special Voltage Motors

200/400 Volt - Drip-Proof - Rigid Base



Three Phase - Drip-Proof - Rigid Base

HP	RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 200 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
3/4	1800	S56	LM24163	✓	422	SRD3S0.75T62	23	200/400	3.2	75.5	1.25	10.97	S, MX
1	1800	143T	LM33053	C/A	547	SD4P1T62	32	200/400	3.6	82.5	1.15	12.49	S, MX
1 1/2	1800	145T	LM33056	C/A	573	SSD4PT62	35	200/400	—	84.0	1.15	—	S, MX
2	1800	145T	LM33057	C/A	588	SSD4P2T62	48	200/400	6.7	84.0	1.15	12.99	S, MX
3	1800	182T	LM33059	C/A	668	SSD4P3T62	75	200/400	10.1	86.5	1.15	12.69	S, MX
5	1800	184T	G131500.00	✓	690	C184T17DB78	62	200-208/400-416	15.4	86.0	1.15	13.19	S, MX
	1800	182T	LM33062	C/A	772	SSD4P5T62	82	200/400	15.2	87.5	1.15	13.19	S, MX
7 1/2	1800	213T	G141124.00	✓	983	C213T17DB15	133	200-208/400-416	22.0	84.0	1.15	17.09	S, MX
10	1800	215T	G140004.00	✓	1,202	C215T17DB33	138	200-208/400-416	32.0	86.5	1.15	15.76	S, MX
	1800	215T	LM32681	C/A	1,444	SSD4P10T62	120	200/400	28.8	91.7	1.15	18.54	S, MX
15	1800	254T	LM26334	✓	1,842	SSD4P15T62	164	200/400	44.0	91.0	1.15	22.32	S, US
20	1800	256T	LM32675	C/A	2,199	SSD4P20T62	200	200/400	57.5	91.0	1.15	22.32	S, US
25	1800	284T	LM33067	C/A	3,640	SD4P25T62	278	200/400	70.0	91.7	1.15	24.93	S, US
30	1800	286T	LM32670	✓	3,878	SD4P30T62	325	200/400	87.5	92.4	1.15	24.99	S, US
40	1800	324T	LM32680	✓	8,399	SD4P40T62	378	200/400	147.0	93.0	1.15	25.82	S, US
50	1800	326T	LM33070	C/A	4,571	SD4P60T62	444	200/400	150.0	93.0	1.15	27.32	S, US
60	1800	364T	LM33072	C/A	6,236	SD4P60T62	575	200/400	—	93.6	1.15	—	S, US
75	1800	365T	LM33074	C/A	6,520	SD4P75T62	660	200/400	211.0	94.1	1.15	29.40	S, US

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Automotive
Duty Motors

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HVAC / Fan
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Special Voltage
Motors

Definite
Purpose Motors

Brake Motors

Special Voltage Motors

200/400 Volt - TEFC - Rigid Base

Three Phase - TEFC - Rigid Base

HP	RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 200 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
1	1800	56	110255.00	✓	516	C6T17FB8	30	200-208	4.4	77.0	1.15	11.31	S, US
	1800	143T	G120047.00	C/A	564	C143T17FB28	32	200-208	4.4	77.0	1.15	12.75	S, US
1 1/2	1800	145T	G120032.00	✓	572	C145T17FB88	35	200-208	5.6	80.0	1.15	12.75	S, US
2	1800	145T	G120034.00	✓	605	C145T17FB89	38	200-208	7.2	81.5	1.15	12.75	S, US
3	3600	182T	LM33621	C/A	939	AF2P3T62AP26	73	200/400	—	85.5	1.15	—	A, MX
	1800	182T	G131465.00	✓	706	C182T17FB51	82	200-208/400-416	10.0	84.0	1.15	12.96	S, MX
	1800	182T	LM33622	C/A	859	AF4P3T62AP26	78	200/400	—	87.5	1.15	—	A, MX
5	1800	184T	G131466.00	✓	814	C184T17FB63	63	200-208/400-416	15.4	86.0	1.15	13.96	S, MX
	1800	184T	LM26285	C/A	976	AAF4P5T62	78	200/400	15.0	87.5	1.25	15.19	A, US
	1800	184T	LM33624	C/A	976	AAF4P5T62AP26	78	200/400	15.0	87.5	1.25	15.19	A, MX
	1200	215T	LM33093	C/A	1,547	AF6P5T62	122	200/400	17.3	87.5	1.15	18.70	A, US
7 1/2	1800	213T	G141123.00	✓	1,041	C213T17FB19	144	200-208/400-416	23.0	87.0	1.15	17.58	S, MX
10	3600	215T	LM33099	C/A	1,848	AF2P10T62	124	200/400	27.6	89.5	1.15	19.70	A, US
	1800	215T	G140013.00	✓	1,265	C215T17FB29	168	200-208/400-416	29.6	87.5	1.15	18.21	S, MX
15	1800	254T	LM32691	C/A	2,424	AF4P15T62	152	200/400	43.5	91.0	1.15	23.52	A, US
20	1800	256T	LM33103	C/A	2,753	AF4P20T62	202	200/400	58.5	91.0	1.15	14.87	A, US

▼ LM Numbers are Lincoln Models

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View On-line Technical Information



Special Voltage Motors

50 Hertz Motors - Single Phase - Rigid Base

General Specifications:

50 Hz single phase designs produce full rated HP on 50 Hz power supply. Designed for general purpose applications.

Features:

- High efficiency energy saving designs
- Centrifugal switch designed for 50 Hz service
- High torque



Single Phase - Drip-Proof - Rigid Base - IP 22

HP	RPM 50 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 220 V	Service Factor	"C" Dim. (Inches)	♥Notes
1/3	1500	56	110394.00	✓	467	C6C14DB5	22	110/220	3.2	1.35	9.88	S, US
1/2	3000	56	113901.00	✓	418	C6C28DB24	25	110/220	3.8	1.25	10.34	S, US
	1500	56	110395.00	✓	592	C6C14DB6	25	110/220	4.1	1.25	10.38	S, US
3/4	3000	56	113902.00	✓	524	C6C28DB25	27	110/220	5.6	1.25	10.34	S, US
	1500	56	110396.00	✓	711	C6C14DB7	30	110/220	5.9	1.25	10.88	S, US
1	3000	56	113903.00	✓	582	C6C28DB26	31	110/220	6.6	1.25	10.84	S, US
	1500	56H	110397.00	✓	783	C6C14DB8	35	110/220	6.4	1.15	11.88	S, US, 6
1 1/2	3000	56H	113904.00	✓	747	C6C28DB27	37	110/220	8.6	1.15	11.84	S, US
	1500	56H	110398.00	✓	883	C6K14DB1	43	110/220	8.4	1.15	12.35	S, US, 6, 53
2	3000	56H	113905.00	✓	915	C6C28DB28	42	110/220	10.7	1.15	12.34	S, US
	1500	182T	131553.00	✓	1,061	C182C14DB3	70	220	11.8	1.15	13.69	S, US
3	3000	56H	113937.00	✓	1,083	C6K28DB5	47	220	12.4	1.15	12.84	S, US
	1500	184T	131554.00	✓	1,213	C184C14DB2	80	220	16.8	1.15	14.69	S, MX
5	1500	184T	131555.00	✓	2,481	C184K14DB9	95	220	23.2	1.15	15.69	S, MX, 53

Specifications are subject to change without notice

♥ Note listing on inside back flap

View On-line Technical Information



Explosion Proof
Motors

Automotive
Duty Motors

Pump
Motors

Washguard
Motors

Agricultural
Motors

HVAC / Fan
Motors

Special Voltage
Motors

Definite
Purpose Motors

Brake Motors

Special Voltage Motors

50 Hertz Motors - Single Phase - Rigid Base



Single Phase - TEFC - Rigid Base - IP54

HP	RPM 50 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 220 V	Service Factor	"C" Dim. (Inches)	♥ Notes
1/3	3000	56	113916.00	✓	431	C6C28FB25	25	110/220	3.2	1.00	10.81	S, US
	1500	56	110423.00	✓	545	C6C14FB6	24	110/220	3.2	1.00	10.81	S, US
	1500	56	113908.00	✓	551	M6C14FB22	26	110/220	3.2	1.00	10.81	S, US
1/2	3000	56	113917.00	✓	461	C6C28FB26	27	110/220	3.8	1.00	11.31	S, US
	1500	56	110064.00	✓	625	C6C14FB1	25	110/220	4.1	1.00	11.31	S, US
	1500	56	113909.00	✓	625	M6C14FB23	29	110/220	4.1	1.15	11.31	S, US
3/4	3000	56	113918.00	✓	524	C6C28FB27	29	110/220	5.6	1.00	11.31	S, US
	1500	56	110065.00	✓	716	C6C14FB2	32	110/220	5.9	1.00	11.81	S, US
	1500	56	113910.00	✓	742	M6C14FB24	32	110/220	5.9	1.00	11.81	S, US
1	3000	56	113919.00	✓	607	C6C28FB28	32	110/220	6.6	1.00	11.81	S, US
	1500	56H	110066.00	✓	861	C6C14FB3	38	110/220	6.4	1.00	12.81	S, US, 6
	1500	56	113911.00	✓	861	M6C14FB25	34	110/220	6.4	1.00	12.31	S, US
1 1/2	3000	56H	113920.00	✓	799	C6C28FB29	44	110/220	8.0	1.00	13.31	S, US
	1500	56H	110424.00	✓	976	C6K14FB1	47	110/220	8.6	1.00	13.31	S, US, 6, 53
	1500	56H	113929.00	✓	889	P6K14FB9	49	110/220	8.6	1.00	13.31	S, US, 6, 53
2	3000	56HZ	113928.00	✓	967	C6C28FB24	44	110/220	10.7	1.00	13.76	S, US, 3
	1500	182T	131556.00	✓	1,462	C182C14FB6	95	220	11.2	1.00	15.96	S, MX
	1500	182T	131600.00	C/A	1,443	P182C14FB5	71	220	12.0	1.00	14.96	S, MX
3	3000	145T	121070.00	✓	1,190	C145K28FB6	50	220	12.4	1.00	12.84	S, US, 53
	3000	56H	113936.00	✓	1,190	C6K28FB2	48	220	12.4	1.00	13.81	S, US, 53
	1500	184T	131557.00	✓	2,088	C184C14FB6	98	220	15.9	1.00	16.96	S, MX
5	1500	184T	131601.00	✓	2,056	P184C14FB7	98	220	15.9	1.00	16.96	S, MX
	3000	184T	131638.00	✓	1,377	C184K28FB2	98	220	20.5	1.00	17.46	S, MX, 53
	1500	184T	131578.00	✓	2,649	C184K14FB5	103	220	21.0	1.00	17.46	S, MX, 53
	1500	213TZ	140475.00	C/A	2,662	P213K14FB1	163	220	24.5	1.00	18.71	S, MX, 53

C/A - Check Availability

♥ Note listing on inside back flap

Specifications are subject to change without notice



View On-line Technical Information



Special Voltage Motors

50 Hertz Motors - Single Phase - Rigid Base

Single Phase - Drip-Proof - Resilient Base - IP22

HP	SYN RPM 50 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 220 V	Service Factor	"C" Dim. (Inches)	♥ Notes
1/3	3000	56	114222.00	✓	366	C6C28DR1	24	110/220	3.2	1.35	10.82	S, US
	1500	56	114223.00	✓	478	C6C14DR18	24	110/220	3.2	1.35	10.81	S, US
1/2	3000	56	114224.00	C/A	427	C6C28DR2	26	110/220	3.8	1.25	11.32	S, US
	1500	56	114225.00	✓	596	C6C14DR19	27	110/220	4.1	1.25	11.31	S, US
3/4	3000	56	114226.00	✓	519	C6C28DR3	28	110/220	5.6	1.25	11.32	S, US
	1500	56	114227.00	✓	712	C6C14DR16	31	110/220	5.9	1.25	11.81	S, US
1	3000	56	114228.00	C/A	590	C6C28DR4	31	110/220	6.6	1.25	11.82	S, US
	1500	56	114229.00	C/A	785	C6C14DR17	35	110/220	6.4	1.15	12.31	S, US
1 1/2	1500	56H	114231.00	✓	881	C6K14DR12	42	110/220	8.4	1.15	13.32	S, US, 53
2	1500	56H	114233.00	✓	1,074	C6K14DR13	49	220	9.6	1.15	13.82	S, US

C/A - Check Availability

♥ Note listing on inside back flap

Specifications are subject to change without notice

Single Phase - TEFC - C Face Less Base - IP54

HP	RPM 50 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 220 V	Service Factor	"C" Dim. (Inches)	♥ Notes
1/3	1500	56C	113921.00	✓	561	M6C14FC5	22	110/220	Man.	3.2	1.00	10.81	S, US
1/2	3000	56C	113912.00	✓	482	C6C28FC3	25	110/220	None	3.8	1.00	11.31	S, US
	1500	56C	113922.00	✓	643	M6C14FC6	29	110/220	Man.	4.1	1.15	11.31	S, US
3/4	3000	56C	113913.00	✓	536	C6C28FC4	28	110/220	None	5.6	1.00	11.31	S, US
	1500	56C	113923.00	✓	735	M6C14FC7	31	110/220	Man.	5.9	1.00	11.81	S, US
1	3000	56C	113914.00	✓	661	C6C28FC5	32	110/220	None	6.6	1.00	11.81	S, US
	1500	56C	113924.00	✓	774	M6C14FC8	34	110/220	Man.	6.4	1.00	12.31	S, US
1 1/2	3000	56C	113915.00	✓	860	C6C28FC6	43	110/220	None	8.0	1.00	13.31	S, US
	1500	56C	113925.00	✓	938	P6K14FC4	42	110/220	Man.	8.6	1.00	13.31	S, US, 53
2	3000	145TC	120990.00	✓	992	C145K28FC2	47	110/220	None	8.6	1.15	13.75	S, US, 53
	1500	182TC	131599.00	C/A	1,478	P182C14FC2	70	220	Man.	12.0	1.00	14.97	S, MX

Specifications are subject to change without notice

♥ Note listing on inside back flap

View On-line Technical Information



Explosion Proof
Motors

Automotive
Duty Motors

Pump
Motors

Washguard
Motors

Agricultural
Motors

HVAC / Fan
Motors

Special Voltage
Motors

Define
Purpose Motors

Brake Motors

Special Voltage Motors

50 Hertz Motors - Three Phase

General Specifications:

Totally enclosed fan cooled,
12-lead motors designed specifically for 50 Hz service. These motors are intended for equipment built in North America and destined for use in 50 Hz service areas of the world.



Features:

- Suitable for 220/380 volt, 50 Hz, or 440 volt, 50 Hz, three phase power
- Torques exceed NEMA performance for Design B motors
- Construction meets IP 54 protection standards
- Class F insulation

Three Phase - TEFC - Rigid Base

kW/HP	RPM 50 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 220 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥ Notes
0.18/1/4	1500	48	102685.00	✓	454	C4T14FB4	19	220/380/440	1.0	56.0	1.15	9.06	S, MX
0.25/1/3	3000	48	102686.00	✓	453	C4T28FB2	19	220/380/440	0.8	60.0	1.15	9.93	S, US
	1500	48	102688.00	✓	545	C4T14FB5	19	220/380/440	1.1	65.0	1.15	9.31	S, MX
	1500	S56	102183.00	✓	510	C4T14FH1	19	220/380/440	1.1	65.0	1.15	9.69	S, MX
0.37/1/2	3000	48	102690.00	C/A	524	C4T28FB1	20	220/380/440	1.0	69.0	1.15	10.43	S, US
	1500	48	102692.00	✓	616	C4T14FB3	20	220/380/440	1.4	72.0	1.15	9.81	S, MX
	1500	S56	102693.00	✓	570	C4T14FH2	20	220/380/440	1.4	72.0	1.15	10.19	S, MX
	1500	56	114304.00	✓	613	C6T14NB1	25	220/380/440	1.0	78.0	1.15	10.38	S, US, 12
0.55/3/4	3000	56	114306.00	✓	555	C6T28FB4	24	220/380/440	1.8	72.0	1.15	10.81	S, US
	1500	56	114307.00	✓	653	C6T14FB7	27	220/380/440	1.9	74.0	1.15	11.31	S, US
0.75/1	3000	56	114308.00	✓	664	C6T28FB5	26	220/380/440	2.4	71.0	1.15	11.31	S, US
	1500	56	114888.00	✓	660	C6T14FB8	28	220/380/440	2.0	77.0	1.15	11.31	S, US
	1500	143T	121096.00	✓	660	C143T14FB2	35	220/380/440	2.0	77.0	1.15	12.75	S, US
1.1/1 1/2	3000	145T	121097.00	C/A	684	C145T28FB4	34	220/380/440	2.9	80.0	1.15	12.76	S, US
	1500	145T	121093.00	✓	684	C145T14FB13	40	220/380/440	3.3	75.5	1.15	12.75	S, US
1.5/2	3000	145T	121094.00	C/A	740	C145T28FB5	42	220/380/440	3.6	80.0	1.15	12.76	S, US
	1500	145T	121095.00	✓	774	C145T14FB14	40	220/380/440	3.7	81.5	1.15	13.25	S, US
2.2/3	3000	182T	131480.00	✓	955	C182T28FB3	58	220/380/440	4.8	82.5	1.15	13.46	S, MX
	1500	182T	131459.00	✓	914	C182T14FB5	64	220/380/440	4.7	84.0	1.15	13.46	S, MX
3.7/5	3000	184T	131481.00	✓	1,125	C184T28FB14	76	220/380/440	7.4	84.0	1.15	14.46	S, MX
	1500	184T	131454.00	✓	1,042	C184T14FB7	82	220/380/440	8.1	85.0	1.00	15.46	S, MX

C/A - Check Availability

♥ Note listing on inside back flap

Specifications are subject to change without notice



View On-line Technical Information

Special Voltage Motors

50 Hertz Motors - Three Phase



Explosion Proof
Motors

Automotive
Duty Motors

Pump
Motors

Washguard
Motors

Agricultural
Motors

HVAC / Fan
Motors

Special Voltage
Motors

Definite
Purpose Motors

Brake Motors

Three Phase - TEFC - C Face Less Base - IP54 Enclosure Protection

kW/HP	RPM 50 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 380 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥ Notes
0.18/1/4	1500	S56C	102184.00	✓	482	C4T14FC2	18	220/380/440	1.0	56.0	1.15	9.44	S, MX
0.25/1/3	3000	S56C	102687.00	✓	476	C4T28FC2	19	220/380/440	0.8	60.0	1.15	10.31	S, US
	1500	S56C	102689.00	✓	521	C4T14FC4	19	220/380/440	1.1	65.0	1.15	9.69	S, MX
	1500	56C	114889.00	✓	558	C6T14FC5	18	220/380/440	1.1	68.0	1.15	10.31	S, US
0.37/1/2	3000	S56C	102691.00	✓	552	C4T28FC1	20	220/380/440	1.0	69.0	1.15	10.81	S, US
	1500	S56C	102694.00	✓	613	C4T14FC3	20	220/380/440	1.4	72.0	1.15	10.19	S, MX
	1500	56C	114891.00	✓	619	C6T14FC4	20	220/380/440	1.2	73.0	1.15	10.81	S, US
	1200	56C	114892.00	✓	684	C6T9FC1	28	220/380/440	1.5	68.0	1.15	11.31	S, US
0.55/3/4	3000	56C	114893.00	✓	555	C6T28FC1	24	220/380/440	1.8	72.0	1.15	10.81	S, US
	1500	56C	114894.00	✓	661	C6T14FC6	27	220/380/440	1.9	74.0	1.15	11.31	S, US
0.75/1	3000	56C	114895.00	✓	668	C6T28FC3	26	220/380/440	2.4	71.0	1.15	11.31	S, US
	1500	56C	114896.00	✓	688	C6T14FC7	28	220/380/440	2.0	77.0	1.15	11.31	S, US
	1500	143TC	121272.00	✓	688	C143T14FC2	31	220/380/440	2.0	77.0	1.15	11.75	S, US
	1200	145TC	121273.00	✓	792	C145T9FC3	39	220/380/440	2.7	73.0	1.15	13.25	S, US
1.1/1 1/2	3000	143TC	121274.00	C/A	711	C143T28FC1	33	220/380/440	2.9	80.0	1.15	12.25	S, US
	1500	145TC	121275.00	✓	720	C145T14FC6	37	220/380/440	3.3	75.5	1.15	12.75	S, US
1.5/2	3000	145TC	121276.00	✓	712	C145T28FC1	41	220/380/440	3.6	80.0	1.15	12.75	S, US
	1500	145TC	121277.00	✓	775	C145T14FC5	40	220/380/440	3.7	81.5	1.15	13.75	S, US
2.2/3	3000	182TC	131505.00	✓	972	C182T28FC2	59	220/380/440	4.8	82.5	1.15	13.97	S, MX
	1500	182TC	131506.00	✓	902	C182T14FC3	63	220/380/440	4.7	84.0	1.15	13.97	S, MX
3.7/5	3000	184TC	131507.00	✓	1,150	C184T28FC3	75	220/380/440	7.4	84.0	1.15	14.47	S, MX
	1500	184TC	131508.00	✓	1,029	C184T14FC3	82	220/380/440	8.1	85.0	1.00	15.47	S, MX

Specifications are subject to change without notice

♥ Note listing on inside back flap

View On-line Technical Information



Special Voltage Motors

Medium Voltage Motors

2300/4000 Volts - Three Phase - Foot Mount

Applications:

Ideally suited for applications requiring heavy duty, large horsepower electric motors. Typical uses include pulp and paper mills, mineral processing, waste management facilities, lumber and wood processing mills, automobile manufacturing plants and other severe duty environments where medium voltage power is available.

- Features Frames 447T - 449T:**
- Full cast iron construction
 - Double shielded radial ball bearings
 - Designed for direct coupled loads (contact your local Sales office about belted loads)
 - Grease fittings with extended grease tubes
 - Internal and external epoxy finish
 - Premium Class H insulation system
 - Front and rear cast iron bearing caps

- Features Frames 5011 - 5013**
- Full cast iron construction
 - Double shielded radial ball bearings
 - Designed for direct coupled loads (contact your local Sales office about belted loads)
 - Grease fittings with extended grease tubes
 - Corrosion resistant breather/drains
 - Oversized cast iron terminal box
 - Internal and external epoxy finish
 - Premium Class H insulation system
 - Inpro/Seal™ bearing isolators on each end
 - Front and rear cast iron bearing caps
 - Provision for jacking bolts in all four feet
 - Provision for dowel pins in drive end feet
 - Grounding points located in terminal box and feet
 - 100 ohm platinum winding RTDs as standard on sizes 400 HP and larger

Design ranges include 150 through 350 HP in 4, 6 and 8-pole designs
 400 - 500 HP in 4 and 6-pole designs
 600 and 700 HP ratings in 4-pole designs

Contact your local sales office for a quote



LEESON 600 Volts and Lower Motors

	LV ODP	LV TEFC	LV DPFFV	LV WPI	LV WPII	LV TEFC	LV TEAAC	LV TEWAC
	NEMA			IEC				
Range	15–600 HP	15–700 HP	25–1250 HP	250–3350 HP	250–3350 HP	250–2150 HP	300–2680 HP	250–3350 HP
Voltage	460V	460V	460V	460V	460V	460V	460V	460V
Pole	2-, 4-, 6-, 8-pole	2-, 4-, 6-, 8-pole	2-, 4-, 6-, 8-pole	2-, 4-, 6-, 8-pole	2-, 4-, 6-, 8-pole	2-, 4-, 6-, 8-pole	2-, 4-, 6-pole	2-, 4-, 6-, 8-pole
Frequency	60 and/or 50 Hertz	60 Hertz	60 and/or 50 Hertz	60 Hertz	60 Hertz	60 Hertz	60 Hertz	60 Hertz
Frame	254–510 NEMA	254–5013 NEMA	364–6805 NEMA	355–630 IEC	355–630 IEC	355–560 IEC	355–630 IEC	355–630 IEC
Protection	IP12 & 23	IP55	IP12 & 23	IP23	IP23	IP55	IP44	IP44
Ambient	40° C	40° C	40° C	40° C	40° C	40° C	40° C	40° C
Insulation	Class F	Class H VPI	Class F	Class F VPI	Class F VPI	Class F VPI	Class F VPI	Class F VPI
Construction	Rolled Steel & Cast Iron	Cast Iron	Cast Iron	Fabricated	Fabricated	Cast Iron	Fabricated	Fabricated
Performance	MG1	MG1	MG1	IEC	IEC	IEC	IEC	IEC
Bearings	Anti-Friction	Anti-Friction	Anti-Friction	Anti-Friction	Anti-Friction	Anti-Friction	Anti-Friction	Anti-Friction
Service Factor	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
Inverter	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

LEESON Medium Voltage Motors

	MV ODP	MV TEFC	MV WPI	MV WPII	MV TEFC	MV TEAAC	MV TEWAC
	NEMA		IEC				
Range	125–700 HP	200–750 HP	250–3350 HP	250–3350 HP	250–2410 HP	300–3350 HP	250–3350 HP
Voltage	2300/4000V	2300/4000V	2300/4000V	2300/4000V	2300/4000V	2300/4000V	460V
Pole	2-, 4-, 6-, 8-pole	2-, 4-, 6-pole	2-, 4-, 6-pole	2-, 4-, 6-pole	2-, 4-, 6-pole	2-, 4-, 6-pole	2-, 4-, 6-, 8-pole
Frequency	60 Hertz	60 Hertz	60 Hertz	60 Hertz	60 Hertz	60 Hertz	60 Hertz
Frame	449T–510U NEMA	5011–5811 NEMA	355–630 IEC	355–630 IEC	355–560 IEC	355–630 IEC	355–630 IEC
Protection	IP23	IP55	IP23	IPW23	IP55	IP44	IP44
Ambient	40° C	40° C	40° C	40° C	40° C	40° C	40° C
Insulation	Class H VPI	Class H VPI	Class F VPI	Class F VPI	Class F VPI	Class F VPI	Class F VPI
Construction	Rolled Steel & Cast Iron	Cast Iron	Fabricated	Fabricated	Cast Iron	Fabricated	Fabricated
Performance	MG1	MG1	IEC	IEC	IEC	IEC	IEC
Bearings	Anti-Friction	Anti-Friction	Anti-Friction	Anti-Friction	Anti-Friction	Anti-Friction	Anti-Friction
Service Factor	1.15	1.15	1.15	1.15	1.15	1.15	1.15
Inverter	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Special Configurations:

There's more to LEESON large AC induction motor capabilities than what you see here. Contact your local LEESON Electric District Sales Office to discuss your unique application.

In some cases:

- HP capability can extend to 5000 HP
- Voltages can extend to 6.6KV & 11KV and higher

Available Accessories:

- Stator RTDs
- Bearing RTDs
- Space Heaters
- Vibration Detectors
- Split Sleeve Bearings
- Noise Reduction Packages
- Lightning Arrestors
- Surge Capacitors
- Ask about other options

Explosion Proof Motors

Automotive Duty Motors

Pump Motors

Washguard Motors

Agricultural Motors

HVAC / Fan Motors

Special Voltage Motors

Define Purpose Motors

Brake Motors

Definite Purpose Motors



Product Families Include:

- Compressor duty motors – page 243
- Pressure washer duty motors – page 245
- Woodworking motors – page 247
- Instant reversing motors – page 249
- Boat Hoist motors – page 251
- Two-Speed motors – page 252
- Crusher duty motors – page 253
- Elevator duty motors – page 254
- Unit handling motors – page 263
- Export only general purpose motors – page 264



Definite Purpose Motors

Compressor Duty Motors

Compressor, Pump and Fan & Blower Duty

General Specifications:

Motors designed for air compressor, pump, and fan and blower duty applications which require high breakdown torque and rugged mechanical construction.

Mechanical Features:

- Double shielded ball bearings
- Designed for belted loads

Electrical Features:

- High efficient copper windings
- High starting and breakdown torque
- Dual rotation



Rigid Base - Capacitor Start - General Purpose - Drip-Proof Single Phase - Drip-Proof - Rigid Base

HP	RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
1	3600	56	110160.00	✓	445	M6C34DB6	27	115/230	Man.	6.7	SPEC	11.38	S, US
	1800	143T	120044.00	✓	606	C143C17DB3	38	115/208-230	None	6.4	1.15	11.28	S, US
	1800	143T	120003.00	✓	637	M143C17DB2	33	115/208-230	Man.	6.4	1.15	11.13	S, US
1 1/2	3600	56	110161.00	✓	488	P6C34DB7	33	115/230	Man.	10.0	SPEC	11.88	S, US
	1800	145T	120042.00	✓	669	C145K17DB5	38	115/208-230	None	8.6	1.15	12.28	S, US, 53
	1800	145T	LM24687	✓	702	SSD4S1.5T1C602	41	115/208-230	None	8.6	1.15	12.49	S, US
	1800	145T	120004.00	✓	850	P145K17DB3	40	115/208-230	Man.	8.6	1.15	12.28	S, US, 53
2	3600	56	110232.00	✓	509	M6C34DB11	33	115/230	Man.	11.0	SPEC	11.88	S, US
	1800	182T	131515.00	✓	827	C182C17DB8	56	115/208-230	None	12.4	1.15	13.19	S, MX
	1800	182T	131536.00	✓	885	P182C17DB10	63	115/208-230	Man.	8.8	1.15	10.66	S, MX
3	3600	56Y	110222.00	✓	571	M6C34DB13	38	230	Man.	15.0	1.15	12.38	S, US, 36
	1800	184T	131534.00	✓	895	C184C17DB19	69	115/230	None	16.9	1.15	14.19	S, MX
5SPL	3600	56	116523.00	✓	688	P6K34DB22	35	208-230	Man.	15.0	1.00	11.44	S, US, 53
5	3600	56Y	111275.00	✓	710	P6K34DB5	44	230	Man.	20.8	1.00	13.34	S, US, 36, 53
	3600	56Y	116789.00	✓	731	P6K34DB27	45	230	Man.	20.8	1.00	12.38	S, US, 10, 53
	3600	145T	120554.00	✓	718	P145K34DB1	46	230	Man.	20.8	1.00	13.12	S, US, 53
	1800	184T	131537.00	✓	1,074	C184K17DB31	83	230	None	21.0	1.15	14.69	S, MX, 53
	1800	184T	LM24682	✓	1,097	SSD4S5T1B600	87	208-230	None	21.0	1.15	14.69	S, MX, 53
7 1/2	1800	184T	131622.00	✓	1,284	P184K17DB33	82	230	Man.	21.0	1.15	14.69	S, MX, 53
	3600	184T	132044.00	✓	1,034	C184K34DB8	110	208-230	Tstat	31.0	1.15	16.69	S, MX, 53
	3600	213T	140680.00	✓	1,747	C213K34DB1	112	208-230	None	29.5	1.15	16.55	S, MX, 53
	1800	215T	140155.00	✓	1,525	C215K17DB2	113	230	None	36.0	1.15	17.26	S, MX, 53
10	1800	215T	LM24683	✓	1,609	SS215D4S7.5T1B600	118	208-230	None	36.0	1.15	17.26	S, MX, 53
	3600	215T	140681.00	✓	2,208	C215K34DB1	135	208-230	None	37.0	1.15	18.05	S, MX, 53
	1800	215TZ	140311.00	✓	2,229	C215K17DB4	140	230	None	43.0	1.25	19.76	S, MX, 53
	1800	215TZ	LM24684	✓	2,283	SSD4S10T1B600	140	208-230	None	43.0	1.15	19.76	S, MX, 53

▼ LM Numbers are Lincoln Models

5SPL - Breakdown torque of 5 HP, continuous duty as 3 HP motor

C/A - Check Availability

Specifications are subject to change without notice

♥ Note listing on inside back flap

View On-line Technical Information



Explosion Proof
Motors

Automotive
Duty Motors

Pump
Motors

Washguard
Motors

Agricultural
Motors

HVAC / Fan
Motors

Special Voltage
Motors

Definite
Purpose Motors

Brake Motors

Definite Purpose Motors

Compressor Duty Motors

Compressor, Pump and Fan & Blower Duty

Three Phase - Drip-Proof - Rigid Base

HP	RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	Inverter Speed Range	♥ Notes
1	1800	143T	121003.00	✓	652	C143T17DB10	36	208-230/460	3.2	85.5	1.25	12.10	S, US	S, US
	1800	143T	LM24871	✓	538	SSD4B1T6	35	208-230/460	3.2	85.5	1.25	12.00	S, MX	S, MX
1 1/2	1800	145T	121004.00	✓	681	C145T17DB32	35	208-230/460	4.8	86.5	1.25	12.60	S, US	S, US
	1800	145T	LM24875	✓	563	SSD4B1.5T6	45	208-230/460	4.4	86.5	1.25	13.00	S, MX	S, MX
2	1800	145T	121005.00	✓	771	C145T17DB33	37	208-230/460	5.8	86.5	1.25	13.60	S, US	S, US
	1800	145T	LM24169	✓	623	SSD4B2T6	48	208-230/460	6.0	86.5	1.25	11.50	S, MX	S, MX
3	1800	182T	131519.00	✓	789	C182T17DB37	75	208-230/460	7.8	89.5	1.25	13.70	S, MX	S, MX
	1800	182T	LM24222	✓	812	SSD4B3T61	75	208-230/460	8.0	89.5	1.25	13.20	S, MX	S, MX
5	1800	184T	131520.00	✓	889	C184T17DB44	86	208-230/460	12.8	89.5	1.25	14.70	S, MX	S, MX
	1800	184T	LM24202	✓	910	SSD4B5T61	91	208-230/460	12.6	89.5	1.25	14.20	S, MX	S, MX
7 1/2	1800	213T	140470.00	✓	1,115	C213T17DB2	133	208-230/460	20.6	91.0	1.25	16.30	S, MX	S, MX
	1800	213T	LM24194	✓	1,282	SSD4B7.5T6	125	208-230/460	19.2	91.0	1.25	18.50	S, US	S, US
10	1800	215T	140472.00	✓	1,317	C215T17DB15	144	208-230/460	26.8	91.7	1.25	17.30	S, MX	S, MX
	1800	215T	LM24193	✓	1,432	SSD4B10T6	155	208-230/460	25.0	91.7	1.25	18.50	S, US	S, US
20	1800	256T	170006.60	✓	2,269	C256T17DB5	324	208-230/460	51.0	93.0	1.25	22.60	C, CN	C, CN
	1800	256T	LM24199	✓	2,464	CCD4B20T6	350	208-230/460	48.0	93.0	1.25	24.40	C, US	C, US

Green items are Premium Efficient

♥ Note listing on inside back flap

▼ LM Numbers are Lincoln Models

C/A - Check Availability

Specifications are subject to change without notice

Three Phase - TEFC - Rigid Base

HP	RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥ Notes
3	1800	182T	131463.00	✓	906	C182T17FB32	80	208-230/460	7.8	89.5	1.15	14.96	S, MX
	1800	182T	LM32741	✓	906	SSF4B3T61	77	208-230/460	7.8	89.5	1.15	13.96	S, MX
5	1800	182T	131464.00	✓	996	C184T17FB42	94	208-230/460	12.8	89.5	1.15	15.96	S, MX
	1800	182T	LM33266	✓	996	SSF4B5T61	85	208-230/460	12.6	89.5	1.15	14.96	S, MX
7 1/2	1800	213T	140450.00	✓	1,280	C213T17FB6	144	208-230/460	21.4	91.7	1.25	18.70	S, MX
	1800	213T	LM32805	✓	1,182	SSF4B7.5T6	115	208-230/460	19.4	91.7	1.25	20.23	S, US
10	1800	215T	140451.00	✓	1,548	C215T17FB18	161	208-230/460	26.6	91.7	1.25	19.70	S, MX
	1800	215T	LM32809	✓	1,460	SSF4B10T6	135	208-230/460	26.0	91.7	1.25	21.48	S, US
15	1800	254T	170066.60	✓	2,283	C254T17FB10	280	208-230/460	36.0	92.4	1.25	23.19	C, CN
	1800	254T	LM24208	✓	2,550	CCF4B15T6	322	208-230/460	37.5	92.4	1.25	25.27	C, US
20	1800	256T	170007.60	✓	2,856	C256T17FB4	322	208-230/460	49.0	93.0	1.15	24.92	C, CN

Green items are Premium Efficient

♥ Note listing on inside back flap

▼ LM Numbers are Lincoln Models

C/A - Check Availability

Specifications are subject to change without notice



View On-line Technical Information



Definite Purpose Motors Pressure Washer Motors

Motors specially suited for hot or cold pressure washer applications and other single phase installations requiring minimum starting and running amperages.

Mechanical Features:

- Double shielded ball bearings
- Dynamically balanced rotors

Electrical Features:

- Windings dipped in heavy duty varnish system
- Capacitor start / capacitor run designs to reduce amp draw
- Manual reset overload protection
- High service factor



Single Phase - Drip-Proof - Rigid Base

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
3/4	3600	S56	100053.00	✓	435	M4C34DH3	24	115/208-230	Man.	4.9	1.25	10.49	S, MX
	1800	S56	101544.00	C/A	629	M4K17DH2	28	115/208-230	Man.	4.0	1.25	11.24	S, US, 53
1	3600	56	110097.00	✓	450	M6C34DB3	27	115/208-230	Man.	6.0	1.25	10.84	S, US
	1800	56	113630.00	✓	683	M6K17DB33	31	115/208-230	Man.	5.3	1.15	10.84	S, US, 53
1 1/2	3600	56	113631.00	✓	597	M6K34DB15	36	115/208-230	Man.	6.2	1.15	11.34	S, US, 53
	1800	56H	113266.00	✓	796	M6K17DB30	42	115/208-230	Man.	6.7	1.15	12.38	S, US, 6, 53
	1800	145T	120004.00	✓	850	P145K17DB3	40	115/208-230	Man.	8.6	1.15	12.28	S, US, 53
2	3600	56	113632.00	✓	806	P6K34DB16	36	115/208-230	Man.	8.6	1.15	11.34	S, US, 53
	1800	56H	116704.00	✓	850	P6K17DB47	45	115/208-230	Man.	8.6	1.15	12.88	S, US, 6, 53
	1800	145T	120879.00	✓	894	P145K17DB38	53	115/208-230	Man.	8.6	1.15	13.31	S, US
3	3600	56H	116706.00	✓	857	M6C34DB75	39	230	Man.	15.0	1.00	12.38	S, US, 6, 53
	1800	184T	131851.00	C/A	1,057	C184K17DB40	72	208-230	Man.	13.7	1.15	15.22	S, MX, 9
5	3600	56H	116708.00	✓	876	P6K34DB26	45	230	Man.	20.8	1.00	13.34	S, US, 6, 53
	1800	184T	131622.00	✓	1,284	P184K17DB33	82	208-230	Man.	21.0	1.15	14.69	S, MX

C/A - Check Availability

♥ Note listing on inside back flap

Specifications are subject to change without notice

Single Phase - TEFC - Rigid Base

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
3/4	3600	56	110108.00	✓	459	M6C34FB7	26	115/208-230	Man.	5.0	1.15	11.31	S, US
	1800	56	110022.00	✓	623	M6C17FB7	29	115/208-230	Man.	5.4	1.15	11.31	S, US
1	3600	56	110142.00	✓	561	M6C34FB2	28	115/208-230	Man.	6.0	1.15	11.81	S, US
	1800	56	110023.00	✓	705	M6C17FB8	29	115/208-230	Man.	6.4	1.15	11.81	S, US
	1800	143T	120008.00	✓	705	M143C17FB2	31	115/208-230	Man.	6.4	1.15	12.75	S, US
1 1/2	3600	56	110109.00	✓	772	M6C34FB8	31	115/208-230	Man.	8.5	1.00	12.31	S, US
	1800	56H	113333.00	✓	798	M6K17FB32	38	115/208-230	Man.	8.6	1.00	12.81	S, US, 6, 53
	1800	145T	120009.00	✓	798	M145K17FB2	42	115/208-230	Man.	8.6	1.00	13.25	S, US, 53
2	3600	56H	110402.00	✓	901	P6C34FB23	41	115/208-230	Man.	10.0	1.00	13.31	S, US, 6, 53
	3600	145T	120395.00	✓	910	P145C34FB5	44	115/208-230	Man.	10.0	1.00	13.75	S, US
	1800	145T	120867.00	✓	1,145	P145K17FB22	48	115/208-230	Man.	9.2	1.00	13.75	S, US, 53
3	3600	56H	116705.00	✓	939	P6K34FB31	53	230	Man.	14.0	1.00	13.81	S, US, 6, 53
	1800	184T	131855.00	✓	1,269	P184K17FB26	88	230	Man.	13.7	1.15	16.86	S, MX, 53
5	3600	184T	132042.00	✓	1,586	P184K34FB9	103	230	Man.	19.8	1.15	16.97	S, MX, 53
	1800	184T	131856.00	✓	1,475	P184K17FB25	95	230	Man.	21.0	1.00	17.86	S, MX, 53

Specifications are subject to change without notice

♥ Note listing on inside back flap

View On-line Technical Information



Explosion Proof
Motors

Automotive
Duty Motors

Pump
Motors

Washguard
Motors

Agricultural
Motors

HVAC / Fan
Motors

Special Voltage
Motors

Definite
Purpose Motors

Brake Motors

Definite Purpose Motors

Pressure Washer Motors

Single Phase - Drip-Proof - C Face With Base

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
1 1/2	3600	56C	114214.00	✓	636	M6K34DK8	35	115/208-230	Man.	6.2	1.15	11.34	S, US
	1800	56HC	113700.00	✓	840	M6K17DK15	38	115/208-230	Man.	7.2	1.15	11.84	S, US, 6, 53
2	3600	56C	114215.00	✓	807	P6K34DK9	45	115/208-230	Man.	8.6	1.15	11.34	S, US
	1800	56HC	113281.00	✓	870	P6K17DK12	45	115/208-230	Man.	8.6	1.15	12.88	S, US, 6, 53
3	3600	56HC	116707.00	✓	881	M6C34DK5	41	230	Man.	15.0	1.00	12.38	S, US, 6, 53
	1800	184TC	131853.00	✓	1,057	C184K17DK18	87	208-230	Man.	15.4	1.15	15.96	S, MX, 53
5	3600	56HC	116709.00	✓	902	P6K34DK18	46	230	Man.	20.8	1.00	13.54	S, US, 6, 53
	1800	184TC	131630.00	✓	1,300	M184K17DK13	77	208-230	Man.	21.0	1.15	14.69	S, MX, 53

Specifications are subject to change without notice

♥ Note listing on inside back flap

Single Phase - TEFC - C Face With Base

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
1/3	1800	56C	116485.00	C/A	637	M6C17FK81	29	115/208-230	Man.	3.2	1.15	10.81	S, US, 57
1/2	1800	56C	116486.00	✓	731	M6C17FK80	23	115/208-230	Man.	4.4	1.15	10.81	S, US, 53
3/4	1800	56C	116487.00	✓	850	M6C17FK79	30	115/208-230	Man.	5.4	1.15	11.31	S, US, 53
1	3600	56C	115877.00	✓	536	M6C34FK78	28	115/208-230	Man.	6.0	1.15	11.81	S, US
	1800	56C	115879.00	✓	715	M6C17FK80	32	115/208-230	Man.	6.4	1.15	11.81	S, US
1 1/2	3600	56C	115024.00	✓	728	M6K34FK16	35	115/208-230	Man.	6.2	1.15	12.31	S, US, 53
	1800	56HC	116703.00	✓	854	M6K17FK50	39	115/208-230	Man.	8.6	1.15	12.81	S, US
2	3600	56HC	114995.00	✓	867	P6K34FK15	42	115/208-230	Man.	9.2	1.15	13.31	S, US, 53
	1800	145TC	121465.00	✓	1,145	P145K17FK10	44	115/208-230	Man.	9.2	1.00	13.75	S, US
3	3600	56HC	115048.00	✓	948	P6K34FK17	53	115/208-230	Man.	14.0	1.00	13.81	S, US, 53
	1800	184TC	131857.00	✓	1,618	P14K17FK14	104	230	Man.	13.7	1.15	17.61	S, MX, 53
5	3600	184TC	131632.00	✓	1,626	P184K34FK2	103	230	Man.	19.8	1.15	16.97	S, MX
	1800	184TC	131633.00	✓	1,694	P184K17FK11	989	230	Man.	23.0	1.00	16.97	S, MX

C/A - Check Availability

♥ Note listing on inside back flap

Specifications are subject to change without notice



View On-line Technical Information



Definite Purpose Motors Woodworking Motors

General Specifications:

- Motors designed for woodworking equipment such as table saws, planers, etc.
- Totally enclosed
- Fully gasketed to prevent dust entry



Single Phase - TEFC - Rigid Base

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
3/4	3600	56	110108.00	✓	459	M6C34FB7	26	115/208-230	Man.	5.0	1.15	11.31	S, US
1	3600	56	110142.00	✓	561	M6C34FB2	28	115/208-230	Man.	6.0	1.15	11.81	S, US
1 1/2	3600	56	110109.00	✓	772	M6C34FB8	34	115/208-230	Man.	8.5	1.00	12.31	S, US
2	3600	56H	110402.00	✓	901	P6C34FB23	41	115/208-230	Man.	10.0	1.00	13.31	S, US, 6
	3600	145T	120395.00	✓	910	P145C34FB5	44	115/208-230	Man.	10.0	1.00	13.75	S, US
3	3600	145T	120341.00	✓	934	C145K34FB3	46	230	None	13.0	1.00	14.25	S, US, 53

Specifications are subject to change without notice

♥ Note listing on inside back flap

Single Phase - TEFC - Rigid Base

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
3	3600	145TC	120824.00	✓	1,010	P145K34FC6	56	230	Man.	13.0	1.00	14.25	S, US, 53

Specifications are subject to change without notice

♥ Note listing on inside back flap

General Specifications:

- Extra high breakdown torque
- 8 ft. cord with 115V plug
- On/off toggle switch
- Replaces Delta motor 62-042

Table Saw Motor



Single Phase - TEFC - Rigid Base

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
1 1/2	3600	56	113627.00	✓	926	M6C34FB63	39	115/230	Man.	7.5	1.00	12.31	S, US

Specifications are subject to change without notice

♥ Note listing on inside back flap

View On-line Technical Information



Explosion Proof
Motors

Automotive
Duty Motors

Pump
Motors

Washguard
Motors

Agricultural
Motors

HVAC / Fan
Motors

Special Voltage
Motors

Definite
Purpose Motors

Brake Motors

Definite Purpose Motors

Contractors' Saw Motors

General Specifications:

- Motor pivots on rod for belt tensioning
- Extra high breakdown torques for maximum cutting power
- ¾" Dia. Shaft, 1 ¾" long with keyway
- Includes 54 inch cord
- Motors 120925.00 and 120997.00 replaces Delta UNISAW® motor 83-621(1 ½ HP)
- Motors 120728.00 and 120998.00 replaces Delta UNISAW® motor 83-651 (3 HP)



Single Phase - TEFC - Delta UNISAW® Mounting

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
1 1/2	3600	143Y	120925.00	✓	829	C143C34FB5	44	115/230	10.0	1.00	12.68	S, US
2	3600	143Y	120997.00	✓	909	C143C34FB6	44	115/230	11.0	1.00	12.68	S, US
3	3600	145Y	120728.00	✓	1,160	C145K34FB12	52	230	13.0	1.00	13.68	S, US, 53
4	3600	145Y	120998.00	✓	1,211	C145K34FB16	48	230	17.6	1.00	13.68	S, US, 53

UNISAW® is a registered trademark of Delta International.

Specifications are subject to change without notice

♥ Note listing on inside back flap

Contractors' Power Tool Motors

General Specifications:

- Designed for woodworking applications
- Electronic starting switch
- High starting and breakdown torques
- 48 frame model has 1-1/2" long shaft by 1/2" Dia.
- 56 frame models have a 1-7/8" long shaft by 5/8" Dia.
- Shaft extensions, each end, include keyway and flat, 90° apart



Single Phase - Drip Proof - Rigid Base - Double-Shaft

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
1/2	1800	S56Z	101781.00	✓	551	C4C17DH106	17	115/208-230	4.4	1.25	12.43	S, US
3/4	3600	48Z	101782.00	✓	566	C4C34DB15	24	115/208-230	4.9	1.25	12.18	S, US
1	3600	56Z	114216.00	✓	592	C6C34DB71	27	115/208-230	6.0	1.25	12.81	S, US

Specifications are subject to change without notice

♥ Note listing on inside back flap



View On-line Technical Information



Parking Gates, Door Operators & Slide Gates

General Specifications:

Specially designed motors for use on "instant-reversing" parking gates, doors, slide gates, or other moderate starting torque instant reversing applications. Capable of frequent reversing service.



Features:

- Instant "plug-reversing" with simple three-wire connection
- Manual overload protected
- Approx. 150% starting torque - not suitable for hard start applications

Features (Rigid Base):

- Capacitor start, induction run motors with solid state, instant reversing switch
- Manual overload protected

Single Phase - Drip-Proof - Resilient Base

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
1/3	1625	S56	191742.00	D	508	M4P17DJ21	18	115	Man.	4.0	1.00	10.31	S, CN
	1625	S56	103794.00	✓	508	M4P17DJ29	18	115	Man.	4.2	1.00	10.81	S, MX
1/2	1625	S56	100802.00	✓	561	M4P17DJ7	24	115	Man.	6.1	1.00	11.31	S, MX
	1625	S56	103460.00	✓	416	5KCP35JNC128	22	115	Man.	5.0	1.00	9.94	S, MX
	1625	S56	191743.00	D	571	M4P17DJ22	24	115	Man.	4.6	1.00	10.31	S, CN, 47
	1625	S56	103821.00	✓	571	M4P17DJ33	25	115	Man.	5.1	1.00	10.81	S, MX, 47
3/4	1625	56H	113642.00	✓	669	M6P17DR4	33	115	Man.	8.2	1.00	11.31	S, US

Note 47 - Rated at 50 HZ at full rated HP

D - To be Discontinued once inventory is depleted
Specifications are subject to change without notice

♥ Note listing on inside back flap

Continued On Next Page

View On-line Technical Information



Explosion Proof
Motors

Automotive
Duty Motors

Pump
Motors

Washguard
Motors

Agricultural
Motors

HVAC / Fan
Motors

Special Voltage
Motors

Definite
Purpose Motors

Brake Motors

Definite Purpose Motors

Instant Reversing Motors

Features (Resilient Base and C Face):

- Instant "plug-reversing" with simple three-wire connection
- Manual overload protected
- Approx. 150% starting torque - not suitable for hard start applications



Single Phase - Drip-Proof - C Face Less Base

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
1/3	1625	S56C	102017.00	✓	500	M4P17DC29	18	115	Man.	4.2	1.00	9.99	S, MX
1/2	1625	S56C	102021.00	✓	561	M4P17DC30	22	115	Man.	6.1	1.00	10.49	S, MX
	1625	S56C	100704.00	✓	561	M4P17DC7	16	115	Man.	4.1	1.00	10.24	S, MX, *

Note * - Motor has same electrical design as 102017, but is rated for intermittent duty.

♥ Note listing on inside back flap

Specifications are subject to change without notice

Features:

- Capacitor start, induction run motors with solid state, instant reversing switch
- Manual overload protected



Single Phase - TEFC - Rigid Base

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	Over- load Prot.	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
3/4	1800	56	114932.00	✓	719	P6C17FB113	30	115/208-230	Man.	5.4	1.15	11.31	S, MX
1	1800	56	114933.00	✓	786	P6C17FB112	30	115/208-230	Man.	6.4	1.15	11.81	S, MX

Specifications are subject to change without notice

♥ Note listing on inside back flap



View On-line Technical Information

Definite Purpose Motors

Boat Hoist Duty Motors

Our Electra Gear line of Boat Hoist Duty motors provide customized features that are needed to support the Boat Hoist Industry.

Features Include:

- Stainless steel frame, base, capacitor case and conduit box cover
- 15 minute duty cycle
- Drain holes located at 6:00 position
- TENV enclosure
- Die cast Aluminum endbells
- Capacitor case located at 12:00
- 115/230 Volt – 1.15 S.F.
- UL recognized component listing and CSA approved



Single Phase - TENV - C Face With Base

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	"C" Dim. (Inches)	♥Notes
1/2	1800	56C	6439191250	✓	430	6439191250	23	115/208-230	4.1	10.5	S, CN
3/4	1800	56C	6439191251	✓	465	6439191251	26	115/208-230	4.9	11.1	S, CN
1	1800	56C	6439191252	✓	506	6439191252	33	115/208-230	6.8	11.7	S, CN
1 1/2	1800	56C	6439191253	✓	590	6439191253	47	115/208-230	8.4	12.6	S, CN

Specifications are subject to change without notice

♥ Note listing on inside back flap

Single Phase - TENV - C Face Less Base

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	"C" Dim. (Inches)	♥Notes
1/2	1800	56C	6439191260	✓	417	6439191260	22	115/208-230	4.1	10.5	S, CN
3/4	1800	56C	6439191261	✓	453	6439191261	24	115/208-230	4.9	11.1	S, CN
1	1800	56C	6439191262	✓	494	6439191262	32	115/208-230	6.8	11.7	S, CN
1 1/2	1800	56C	6439191263	✓	576	6439191263	46	115/208-230	8.4	12.6	S, CN
2	1800	56C	6439191264	✓	650	6439191264	48	115/208-230	9	13.4	S, CN

Specifications are subject to change without notice

♥ Note listing on inside back flap

View On-line Technical Information



Explosion Proof
Motors

Automotive
Duty Motors

Pump
Motors

Washguard
Motors

Agricultural
Motors

HVAC / Fan
Motors

Special Voltage
Motors

Definite
Purpose Motors

Brake Motors

Definite Purpose Motors

Two-Speed Motors

Three Phase - Variable and Constant Torque Designs

General Specifications:

Two-speed, single winding design motors. See pages 197 and 198 for typical applications and characteristic speed torque curves.



Variable Torque - 460 Volt - One Winding - TEFC - Rigid Base - 1800/900 RPM

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 460 V	Service Factor	"C" Dim. (Inches)	♥Notes
1/25	1800/900	143T	120945.00	C/A	951	C143T48FB7	36	460	1.6-0.7	1.00	12.75	S, US
1.5/37	1800/900	145T	120941.00	✓	990	C145T48FB60	36	460	2.4-1.0	1.00	12.75	S, US
2/5	1800/900	145T	120940.00	C/A	1,154	C145T48FB48	36	460	3.2-1.3	1.00	12.75	S, US
3/7.5	1800/900	184T	131474.00	C/A	1,236	C184T48FB67	77	460	4.0-1.8	1.00	14.46	S, MX
5/1.2	1800/900	184T	131475.00	✓	1,577	C184T48FB68	107	460	6.5-2.5	1.00	15.96	S, MX
7.5/1.9	1800/900	215T	140447.00	✓	2,223	C215T48FB46	155	460	9.7-3.3	1.00	17.71	S, MX
10/2.5	1800/900	215T	140448.00	✓	2,618	C215T48FB48	168	460	12.7-4.2	1.00	18.71	S, MX

C/A - Check Availability

Specifications are subject to change without notice

♥ Note listing on inside back flap

Variable Torque - 208-230 Volt - One Winding - TEFC - Rigid Base - 1800/900 RPM

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
1/25	1800/900	143T	120944.00	C/A	951	C143T48FB6	36	208-230	3.2-1.4	1.00	12.75	S, US
1.5/37	1800/900	145T	120947.00	C/A	992	C145T48FB61	36	208-230	4.8-2.0	1.00	12.75	S, US
2/5	1800/900	145T	120946.00	✓	1,154	C145T48FB59	35	208-230	6.3-2.6	1.00	12.75	S, US
3/7.5	1800/900	184T	131468.00	✓	1,236	C184T48FB61	78	208-230	8.0-3.6	1.00	14.46	S, MX
5/1.2	1800/900	184T	131469.00	✓	1,577	C184T48FB62	94	208-230	13.0-5.0	1.00	15.96	S, MX
7.5/1.9	1800/900	215T	140443.00	C/A	2,244	C215T48FB45	154	208-230	19.4-6.6	1.00	17.71	S, MX
10/2.5	1800/900	215T	140444.00	C/A	2,618	C215T48FB47	166	208-230	25.4-8.4	1.00	18.71	S, MX

C/A - Check Availability

Specifications are subject to change without notice

♥ Note listing on inside back flap

Constant Torque - 460 Volt - One Winding - TEFC - Rigid Base - 1800/900 RPM

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 460 V	Service Factor	"C" Dim. (Inches)	♥Notes
1/5	1800/900	143T	120943.00	C/A	1,356	C143T48FB9	36	460	1.4-1.6	1.00	13.25	S, US
2/1	1800/900	184T	131471.00	✓	1,733	C184T48FB64	68	460	2.9-2.9	1.00	13.96	S, MX
3/1.5	1800/900	184T	131470.00	✓	1,967	C184T48FB63	80	460	3.8-3.5	1.00	14.96	S, MX
5/2.5	1800/900	215T	140445.00	C/A	2,571	C215T48FB43	145	460	6.7-7.0	1.00	17.71	S, MX

C/A - Check Availability

Specifications are subject to change without notice

♥ Note listing on inside back flap

Constant Torque - 208-230 Volt - One Winding - TEFC - Rigid Base - 1800/900 RPM

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
1/5	1800/900	143T	120942.00	C/A	1,356	C143T48FB8	37	208-230	3.2-4.2	1.00	12.75	S, US
2/1	1800/900	184T	131473.00	C/A	1,733	C184T48FB66	69	208-230	5.8-5.7	1.00	13.96	S, MX
3/1.5	1800/900	184T	131472.00	✓	1,967	C184T48FB65	80	208-230	7.6-6.9	1.00	14.96	S, MX
5/2.5	1800/900	215T	140446.00	C/A	2,571	C215T48FB44	137	208-230	13.4-14.0	1.00	17.71	S, MX

C/A - Check Availability

Specifications are subject to change without notice

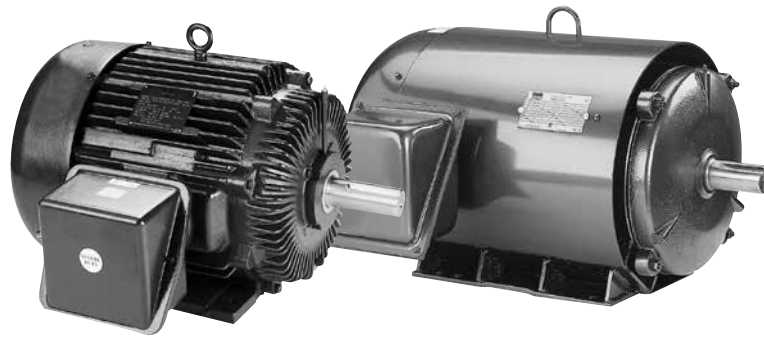
♥ Note listing on inside back flap



View On-line Technical Information

Definite Purpose Motors

Crusher Duty



Applications:

Ideally suited for size reduction equipment including rock crushers and pulverizers and other uses in the aggregate and construction industries. Crusher Duty motors are designed for belted (radial) loads only.

Features:

- Drive end roller bearing
- Superior speed-torque curves - most SF (Rolled Steel TEFC) models nameplated Design B & C. all CCS (Cast Iron Severe Duty) models labeled Design C.
- Inverter-rated
- Continuous duty
- Premium Class F insulation system
- Across-the-line, Y-Delta (YDS) and Part Winding (PWS) start capability
- Installation versatility - mount Lincoln Crusher Duty motors horizontal or vertical shaft down
- Over temperature protection – Class F thermostats
- Drive-end roller bearing for belted load applications
- 4140 grade high strength shaft material

Ratings Include:

Cast Iron and Steel frame construction
100 to 300 HP in 4 and 6-pole designs
350 - 400 HP in 4-pole designs

Contact your local sales office for a quote. Higher HP ratings are also available.

Explosion Proof
Motors

Automotive
Duty Motors

Pump
Motors

Washguard
Motors

Agricultural
Motors

HVAC / Fan
Motors

Special Voltage
Motors

Definite
Purpose Motors

Brake Motors



Definite Purpose Motors

Hydraulic Elevator Duty Motors

Applications:

Hydraulic pump passenger, service, freight, and dumbwaiter low rise elevators. Typically hydraulic elevators travel up to 6 floors at speeds up to 200 fpm.

Features:

- Dual rated nameplates for 80 & 120 starts/hour
- Designed for belt driven pumps
- Wye Start/Delta Run
- Class F Insulated
- 40° C ambient
- F-1 mounting
- Ball bearings with grease fittings and automatic relief
- NEMA dimensions
- UL recognized component listing and CSA approved
- Constructed for low noise and low vibration



Three Phase - Drip-Proof - Rigid Base - 80 Starts Per Hour

HP	RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	% F. L. Nom. Eff.	80 Starts F.L. Amps	Locked Rotor Amps	♥ Notes
15	3600	213T	LM30092	C/A	1279	SSD2P10/15T61YEH2	149	230/460	88.5	36	162/81	S, US
	1800	215T	LM28867	✓	1174	SSD4G10/15T6006YEH2	128	200	89.5	45	170	S, US
	1800	215T	LM28868	✓	1174	SSD4S10/15T61YEH2	124	230/460	89.5	39.2/19.6	148/74	S, US
20	3600	215T	LM30093	✓	1670	SSD2P15/20T6006YEH2	135	200	90.2	53	267	S, US
	3600	215T	LM30094	✓	1670	SSD2P15/20T61YEH2	138	230/460	90.2	46/23	232/116	S, US
	1800	254T	LM28873	✓	1601	SSD4G15/20T6006YEH2	203	200	91.0	59	267	S, US
	1800	254T	LM28874	✓	1601	SSD4G15/20T61YEH2	205	230/460	91.0	51.4/25.7	232/116	S, US
25	3600	254T	LM30095	✓	2118	SSD2P20/25T6006YEH2	128	200	91.0	67	334	S, US
	3600	254T	LM30096	✓	2118	SSD2P20/25T61YEH2	134	230/460	91.0	58/29	290/145	S, US
	1800	256T	LM28879	✓	2024	SSD4G20/25T6006YEH2	233	200	91.0	74	368	S, US
	1800	256T	LM28880	✓	2024	SSD4G20/25T61YEH2	233	230/460	91.0	64/32	320/160	S, US
30	3600	256T	LM30097	✓	2547	SSD2P25/30T6006YEH2	235	200	91.0	80	419	S, US
	3600	256T	LM30098	✓	2547	SSD2P25/30T61YEH2	235	230/460	91.0	69/34.5	364/182	S, US
	1800	284T	LM29850	✓	2674	CCD4G25/30T6006YEH2	300	200	91.7	84	391	S, US
	1800	284T	LM29851	✓	2674	CCD4G25/30T61YEH2	318	230/460	90.2	73/36.5	340/170	S, US
	1800	284T	LM33046	✓	3061	CCD4B25/30T61YEH2	320	230/460	94.1	73/36.5	360/180	S, US

▼ LM Numbers are Lincoln Models

♥ Note listing on inside back flap

C/A - Check Availability

Continued On Next Page

Specifications are subject to change without notice



View On-line Technical Information



Definite Purpose Motors Hydraulic Elevator Duty Motors

Three Phase - Drip-Proof - Rigid Base - 80 Starts Per Hour

HP	RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	% F. L. Nom. Eff.	80 Starts F.L. Amps	Locked Rotor Amps	♥Notes
40	3600	284T	LM30099	✓	3280	CCD2P30/40T6006YEH2	320	200	91.7	112	460	S, US
	3600	284T	LM30100	✓	3280	CCD2P30/40T61YEH2	322	230/460	91.7	97/48.5	400/200	S, US
	1800	286T	LM29852	✓	3101	CCD4G30/40T6006YEH2	450	200	92.4	112	495	S, US
	1800	286T	LM29853	✓	3101	CCD4G30/40T61YEH2	600	230/460	92.4	97/48.5	430/215	S, US
	1800	286T	LM33048	C/A	3550	CCD4B30/40T61YEH2	610	230/460	94.1	96/48	416/208	S, US
50	3600	286T	LM30102	C/A	4190	CCD2P40/50T61YEH2	462	230/460	92.4	117/58.5	580/290	S, US
	1800	324T	LM28897	✓	4150	SD4G40/50T6006YEH2	550	200	92.4	145	630	S, US
	1800	324T	LM28898	✓	4150	SD4G40/50T61YEH2	552	230/460	92.4	126/63	548/274	S, US
	1800	324T	LM32651	✓	4752	SD4B40/50T61YEH2	554	230/460	94.5	125/62.5	530/265	S, US
60	1800	326T	LM28903	✓	4610	SD4G50/60T6006YEH2	519	200	92.4	176	794	S, US
	1800	326T	LM28904	C/A	4610	SD4G50/60T61YEH2	530	230/460	92.4	153/76.5	690/345	S, US
	1800	326T	LM32663	✓	5277	SF4B50/60T61YEH2	535	230/460	93.6	151/75.5	650/325	S, US
75	1800	364T	LM28909	C/A	6891	SD4G60/75T6006YEH2	693	200	93.6	206	1000	S, US
	1800	364T	LM28910	✓	6891	SD4S60/75T61YEH2	709	230/460	93.6	179/89.5	870/435	S, US
100	1800	365T	LM28914	C/A	7276	SD4G75/100T61YEH2	754	230/460	94.1	250/125	1084/542	S, US

▼ LM Numbers are Lincoln Models

♥ Note listing on inside back flap

C/A - Check Availability

Specifications are subject to change without notice

Explosion Proof
Motors

Automotive
Duty Motors

Pump
Motors

Washguard
Motors

Agricultural
Motors

HVAC / Fan
Motors

Special Voltage
Motors

Definite
Purpose Motors

Brake Motors

View On-line Technical Information



Definite Purpose Motors

Hydraulic Elevator Duty Motors

Three Phase - Drip-Proof - Rigid Base - 120 Starts Per Hour

HP	RPM 60 Hz	NEMA Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	% F. L. Nom. Eff.	120 Starts F.L. Amps	Locked Rotor Amps	♥ Notes
10	3600	213T	LM30092	C/A	1279	SSD2P10/15T61YEH2	149	230/460	88.5	36	162/81	S, US
	1800	215T	LM28867	✓	1174	SSD4G10/15T6006YEH2	128	200	89.5	45	170	S, US
	1800	215T	LM28868	✓	1174	SSD4S10/15T61YEH2	124	230/460	89.5	39.2/19.6	148/74	S, US
15	3600	215T	LM30093	✓	1670	SSD2P15/20T6006YEH2	135	200	90.2	53	267	S, US
	3600	215T	LM30094	✓	1670	SSD2P15/20T61YEH2	138	230/460	90.2	46/23	232/116	S, US
	1800	254T	LM28873	✓	1601	SSD4G15/20T6006YEH2	203	200	91.0	59	267	S, US
20	1800	254T	LM28874	✓	1601	SSD4G15/20T61YEH2	205	230/460	91.0	51.4/25.7	232/116	S, US
	3600	254T	LM30095	✓	2118	SSD2P20/25T6006YEH2	128	200	91.0	67	334	S, US
	3600	254T	LM30096	✓	2118	SSD2P20/25T61YEH2	134	230/460	91.0	58/29	290/145	S, US
25	1800	256T	LM28879	✓	2024	SSD4G20/25T6006YEH2	233	200	91.0	74	368	S, US
	1800	256T	LM28880	✓	2024	SSD4G20/25T61YEH2	233	230/460	91.0	64/32	320/160	S, US
	3600	256T	LM30097	✓	2547	SSD2P25/30T6006YEH2	235	200	91.0	80	419	S, US
30	3600	256T	LM30098	✓	2547	SSD2P25/30T61YEH2	235	230/460	91.0	69/34.5	364/182	S, US
	1800	284T	LM29850	✓	2674	CCD4G25/30T6006YEH2	300	200	91.7	84	391	S, US
	1800	284T	LM29851	✓	2674	CCD4G25/30T61YEH2	318	230/460	90.2	73/36.5	340/170	S, US
40	1800	284T	LM33046	✓	3061	CCD4B25/30T61YEH2	320	230/460	94.1	73/36.5	360/180	S, US
	3600	284T	LM30099	✓	3280	CCD2P30/40T6006YEH2	320	200	91.7	112	460	S, US
	3600	284T	LM30100	✓	3280	CCD2P30/40T61YEH2	322	230/460	91.7	97/48.5	400/200	S, US
50	1800	286T	LM29852	✓	3101	CCD4G30/40T6006YEH2	450	200	92.4	112	495	S, US
	1800	286T	LM29853	✓	3101	CCD4G30/40T61YEH2	600	230/460	92.4	97/48.5	430/215	S, US
	1800	286T	LM33048	C/A	3550	CCD4B30/40T61YEH2	610	230/460	94.1	96/48	416/208	S, US
60	3600	286T	LM30102	C/A	4190	CCD2P40/50T61YEH2	462	230/460	92.4	117/58.5	580/290	S, US
	1800	324T	LM28897	✓	4150	SD4G40/50T6006YEH2	550	200	92.4	145	630	S, US
	1800	324T	LM28898	✓	4150	SD4G40/50T61YEH2	552	230/460	92.4	126/63	548/274	S, US
75	1800	324T	LM32651	✓	4752	SD4B40/50T61YEH2	554	230/460	94.5	125/62.5	530/265	S, US
	1800	326T	LM28903	✓	4610	SD4G50/60T6006YEH2	519	200	92.4	176	794	S, US
	1800	326T	LM28904	✓	4610	SD4G50/60T61YEH2	530	230/460	92.4	153/76.5	690/345	S, US
100	1800	326T	LM32663	✓	5277	SF4B50/60T61YEH2	535	230/460	93.6	151/75.5	650/325	S, US
	3600	364T	LM28909	C/A	6891	SD4G60/75T6006YEH2	693	200	93.6	206	1000	S, US
	3600	364T	LM28910	✓	6891	SD4S60/75T61YEH2	709	230/460	93.6	179/89.5	870/435	S, US
125	1800	365T	LM28914	C/A	7276	SD4G75/100T61YEH2	754	230/460	94.1	250/125	1084/542	S, US

▼ LM Numbers are Lincoln Models

♥ Note listing on inside back flap

C/A - Check Availability

Specifications are subject to change without notice



View On-line Technical Information



VVVF (Variable Voltage-Variable Frequency) Traction Elevator Hoist Motors

Applications:

Designed for Geared and Gearless Traction Elevators, 100 fpm to 500 fpm operation and up to 12 or 15 floors.

Features:

- Dynamic balanced for low vibration operation
- Normally closed thermostats, one per phase
- Low noise design
- Steel frame construction with cast iron endbells
- Class F Insulated, 40° C ambient
- EPAct efficiency or better
- 1.0 service factor
- 1024 PPR encoder, with 1-inch shaft bore standard
- F1 mounting
- 1000:1 inverter duty capability



Three Phase - Drip-Proof - Rigid Base with Encoder

HP	SYN RPM	No. of Poles	Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	HZ	Voltage	F. L. Amps	Rated Accel. Torque	♥ Notes
7 1/2	1200	6	254T	LM28114	✓	3,681	SD6P7.5T61ET1	221	60	230/460	24/12	225%	S, US
	1200	6	254T	LM28115	✓	3,681	SD6P7.5T6006ET1	221	60	200	28	225%	S, US
	1200	4	254T	LM28116	C/A	3,610	SD4P7.5T41ET1	200	40	230/460	19/9.5	275%	S, US
	1200	4	254T	LM28117	C/A	3,610	SD4P7.5T4006ET1	200	40	200	22	275%	S, US
	900	4	256T	LM28118	C/A	4,009	SD4P7.5T31ET1	278	30	230/460	19.6/9.8	275%	S, US
	900	4	256T	LM28119	C/A	4,009	SD4P7.5T3006ET1	278	30	200	23	275%	S, US
10	1200	6	256T	LM28120	✓	4,091	SSD6P10T61ET1	214	60	230/460	24/12	250%	S, US
	1200	6	256T	LM28121	✓	4,091	SD6P10T6006ET1	214	60	200	28	250%	S, US
	1200	4	256T	LM28122	C/A	4,009	SD4P10T41ET1	232	40	230/460	19/9.5	275%	S, US
	1200	4	256T	LM28123	C/A	4,009	SSD4P10T4006ET1	232	40	200	22	275%	S, US
	900	4	284T	LM28124	C/A	4,747	SD4P10T31ET1	280	30	230/460	19.6/9.8	330%	S, US
	900	4	284T	LM28125	C/A	4,747	SD4P10T3006ET1	280	30	200	23	330%	S, US
12 1/2	1200	6	284T	LM31393	C/A	4,886	SD6P12.5T61ET1	338	60	230/460	42/21	300%	S, US
	1200	6	284T	LM30676	✓	4,886	SD6P12.5T6006YET1	338	60	200	48.5	300%	S, US
	900	4	284T	LM30677	C/A	5,153	SD4P12.5T31ET1	365	30	230/460	34/17	300%	S, US
	900	4	284T	LM30678	C/A	5,153	SD4P12.5T3006ET1	365	30	200	38.5	300%	S, US
15	1800	4	256T	LM30679	C/A	4,091	SD4P15T61ET1	233	60	230/460	—	—	S, US
	1800	4	256T	LM30680	C/A	4,091	SD4P15T6006ET1	233	60	200	—	—	S, US
	1200	6	284T	LM28126	✓	5,822	SD6S15T61YET1	341	60	230/460	49/24.5	300%	S, US
	1200	6	284T	LM28127	C/A	5,822	SD6G15T6006YET1	338	60	200	56.5	300%	S, US
	1200	4	284T	LM28128	C/A	4,747	SD4P15T41ET1	344	40	230/460	40/20	330%	S, US
	1200	4	284T	LM28129	C/A	4,747	SD4P15T4006ET1	344	40	200	46	330%	S, US
	900	4	286T	LM30535	C/A	6,556	SD4S15T31YET1	392	30	230/460	40/20	300%	S, US
	900	4	286T	LM28131	C/A	5,558	SD4P15T3006ET1	392	30	200	46	300%	S, US
20	1800	4	256T	LM30681	C/A	4,505	SD4P20T61ET1	240	60	230/460	—	—	S, US
	1800	4	256T	LM30682	C/A	4,505	SD4P20T6006ET1	240	60	200	—	—	S, US

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♥ Note listing on inside back flap

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View On-line Technical Information



Explosion Proof Motors

Automotive Duty Motors

Pump Motors

Washguard Motors

Agricultural Motors

HVAC / Fan Motors

Special Voltage Motors

Definite Purpose Motors

Brake Motors

Definite Purpose Motors

VVVF (Variable Voltage-Variable Frequency) Traction Elevator Hoist Motors

Three Phase - Drip-Proof - Rigid Base with Encoder

HP	SYN RPM	No. of Poles	Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	HZ	Voltage	F. L. Amps	Rated Accel. Torque	♥Notes
20	1200	6	286T	LM28132	C/A	6,802	SD6S20T61YET1	390	60	230/460	61/30.5	275%	S, US
	1200	6	286T	LM28133	✓	6,802	SD6S20T6006YET1	400	60	200	68	275%	S, US
	1200	4	286T	LM28134	C/A	5,558	SD4P20T41ET1	385	40	230/460	52/26	330%	S, US
	1200	4	286T	LM28135	C/A	5,558	SD4P20T4006ET1	385	40	200	60	330%	S, US
	900	4	324T	LM28136	C/A	6,333	SD4P20T31ET1	480	30	230/460	54/27	275%	S, US
	900	4	324T	LM28137	C/A	6,333	SD4P20T3006ET1	471	30	200	62.1	275%	S, US
25	1800	4	284T	LM30720	C/A	4,916	SD4P25T61ET1	350	60	230/460	64/32	250%	S, US
	1800	4	284T	LM30721	C/A	4,916	SD4P25T62ET1	350	60	200	73.5	250%	S, US
	1200	6	324T	LM28138	C/A	6,912	SD6S25T61YET1	505	60	230/460	64/32	250%	S, US
	1200	6	324T	LM28139	C/A	6,912	SD6P25T6006ET1	505	60	200	73.6	250%	S, US
	1200	4	324T	LM28140	C/A	6,333	SD4P25T41ET1	472	40	230/460	65/32.5	275%	S, US
	1200	4	324T	LM28141	C/A	6,333	SD4P25T4006ET1	472	40	200	74.8	275%	S, US
30	900	4	326T	LM28142	C/A	7,193	SD4P25T31ET1	538	30	230/460	64/32	275%	S, US
	900	4	326T	LM28143	C/A	7,193	SD4P25T3006YET1	525	30	200	73.6	275%	S, US
	1800	4	286T	LM30722	C/A	5,714	SD4P30T61ET1	400	60	230/460	72/36	250%	S, US
	1800	4	286T	LM30723	C/A	5,714	SD4P30T62ET1	400	60	200	83	250%	S, US
	1200	6	326T	LM27976	C/A	7,713	SD6S30T61YET1	535	60	230/460	76/38	225%	S, US
	1200	6	326T	LM28144	C/A	7,713	SD6S30T6006YET1	552	60	200	87.4	225%	S, US
40	1200	4	326T	LM28145	C/A	7,060	SD4P30T41ET1	516	40	230/460	74/37	275%	S, US
	1200	4	326T	LM28146	C/A	7,060	SD4P30T4006ET1	516	40	200	85	275%	S, US
	900	4	364T	LM28147	C/A	8,641	SD4P30T31ET1	575	30	230/460	74/37	275%	S, US
	900	4	364T	LM28148	C/A	8,641	SD4P30T3006ET1	575	30	200	85	275%	S, US
	1800	4	324T	LM30724	C/A	6,543	SD4P40T61ET1	470	60	230/460	98/49	250%	S, US
	1800	4	324T	LM30725	C/A	6,543	SD4P40T62ET1	470	60	200	113	250%	S, US
50	1200	6	364T	LM28149	✓	9,750	SD6S40T61YET1	755	60	230/460	98/49	250%	S, US
	1200	6	364T	LM28150	C/A	9,750	SD6S40T6006YET1	755	60	200	113	250%	S, US
	1200	4	364T	LM28151	C/A	8,641	SD4P40T41ET1	715	40	230/460	96/48	275%	S, US
	1200	4	364T	LM28152	C/A	8,641	SD4P40T4006ET1	715	40	200	111	275%	S, US
	900	4	365T	LM28153	C/A	9,626	SD4P40T31ET1	783	30	230/460	97/48.5	275%	S, US
	900	4	365T	LM28154	C/A	9,626	SD4P40T3006ET1	783	30	200	112	275%	S, US
60	1800	4	326T	LM30647	C/A	7,300	SD4P50T61ET1	522	60	230/460	121/60.5	250%	S, US
	1800	4	326T	LM30648	C/A	7,300	SD4P50T6006ET1	522	60	200	139	250%	S, US
	1200	6	365T	LM28155	C/A	10,016	SD6S50T61YET1	800	60	230/460	129/64.5	275%	S, US
	1200	6	365T	LM28156	C/A	10,016	SD6S50T6006YET1	800	60	200	148	275%	S, US
	1200	4	365T	LM28157	C/A	9,626	SD4P50T41ET1	765	40	230/460	120/60	275%	S, US
	1200	4	365T	LM28158	C/A	9,626	SD4P50T4006ET1	765	40	200	138	275%	S, US
Special Voltage Motors	900	4	405T	LM28159	C/A	12,795	SD4P50T31ET1	964	30	230/460	118/59	275%	S, US
	900	4	405T	LM28160	C/A	12,795	SD4S50T3006YET1	964	30	200	136	275%	S, US
	1800	4	364T	LM30649	C/A	8,987	SD4P60T61ET1	715	60	230/460	140/70	—	S, US
	1800	4	364T	LM30650	C/A	8,987	SD4P60T6006ET1	715	60	200	161	—	S, US
	1200	6	404T	LM28161	✓	11,327	SD6P60T61YET1	888	60	230/460	167/83.5	250%	S, US
	1200	6	404T	LM28162	C/A	11,327	SD6P60T6006YET1	888	60	200	192	250%	S, US

▼ LM Numbers are Lincoln Models

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VVVF (Variable Voltage-Variable Frequency) Traction Elevator Hoist Motors

Three Phase - Drip-Proof - C Face Less Base - with Encoder - F1 Conduit Box

HP	SYN RPM	No. of Poles	Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	HZ	Voltage	F. L. Amps	Rated Accel. Torque	♥ Notes
7 1/2	1200	6	254T	LM28200	✓	3,790	SD6P7.5TCN61ET1	150	60	230/460	24/12	225%	S, US
	1200	6	254T	LM28201	✓	3,790	SD6P7.5TCN6006ET1	150	60	200	28	225%	S, US
	1200	4	254T	LM30655	C/A	3,718	SD4P7.5TCN41ET1	145	40	230/460	19/9.5	275%	S, US
	1200	4	254T	LM30663	C/A	3,718	SD4P7.5TCN4006ET1	145	40	200	22	275%	S, US
	900	4	256T	LM28202	C/A	4,117	SD4P7.5TCN31ET1	225	30	230/460	19.6/9.8	275%	S, US
	900	4	256T	LM28203	C/A	4,117	SD4P7.5TCN3006ET1	225	30	200	23	275%	S, US
10	1200	6	256T	LM28204	✓	4,200	SSD6P10TCN61ET1	202	60	230/460	24/12	250%	S, US
	1200	6	256T	LM28205	✓	4,200	SD6P10TCN6006ET1	202	60	200	28	250%	S, US
	1200	4	256T	LM30732	C/A	4,117	SD4P10TCN41ET1	230	40	230/460	19/9.5	275%	S, US
	1200	4	256T	LM30733	C/A	4,117	SD4P10TCN4006ET1	230	40	200	22	275%	S, US
	900	4	284T	LM28206	C/A	4,935	SD4P10TCN31ET1	355	30	230/460	19.6/9.8	330%	S, US
	900	4	284T	LM28207	C/A	4,935	SD4P10TCN3006ET1	355	30	200	23	330%	S, US
12 1/2	1200	6	284T	LM30734	✓	4,693	SD4P12.5TCN61ET1	305	60	230/460	42/21	300%	S, US
	1200	6	284T	LM30735	✓	4,693	SD4P12.5TCN6006ET1	305	60	200	48.5	300%	S, US
	900	4	284T	LM30736	C/A	5,340	SD4P12.5TCN3006ET1	355	30	230/460	34/17	300%	S, US
	900	4	284T	LM30737	C/A	5,340	SD4P12.5TCN3006ET1	355	30	200	38.5	300%	S, US
15	1800	4	256T	LM30748	C/A	4,200	SD4P15TCN61ET1	220	60	230/460	—	—	S, US
	1800	4	256T	LM30749	C/A	4,200	SD4P15TCN6006ET1	220	60	200	—	—	S, US
	1200	6	284T	LM28208	✓	5,104	SD6P15TCN61ET1	330	60	230/460	49/24.5	300%	S, US
	1200	6	284T	LM28209	✓	5,104	SD6S15TCN6006YET1	330	60	200	56.5	300%	S, US
	1200	4	284T	LM30750	C/A	4,935	SD4P15TCN41ET1	355	40	230/460	40/20	330%	S, US
	1200	4	284T	LM30751	C/A	4,935	SD4P15TCN4006ET1	355	40	200	46	330%	S, US
	900	4	286T	LM28210	C/A	5,746	SD4P15TCN31ET1	388	30	230/460	40/20	300%	S, US
	900	4	286T	LM28211	C/A	5,746	SD4S15TCN3006ET1	388	30	200	46	300%	S, US
20	1800	4	256T	LM30752	C/A	4,613	SD4P20TCN61ET1	249	60	230/460	—	—	S, US
	1800	4	256T	LM30753	C/A	4,613	SD4P20TCN6006ET1	249	60	200	—	—	S, US
	1200	6	286T	LM28212	C/A	6,126	SD6S20TCN61YET1	379	60	230/460	61/30.5	275%	S, US
	1200	6	286T	LM28213	✓	6,126	SD6S20TCN6006YET1	379	60	200	68	275%	S, US
	1200	4	286T	LM30739	C/A	5,746	SD4P20TCN41ET1	396	40	230/460	52/26	330%	S, US
	1200	4	286T	LM30740	C/A	5,746	SD4P20TCN6006ET1	396	40	200	60	330%	S, US
	900	4	324T	LM28214	C/A	6,645	SD4P20TCN31ET1	480	30	230/460	54/27	275%	S, US
	900	4	324T	LM28215	C/A	6,645	SD4S20TCN3006YET1	480	30	200	62.1	275%	S, US
25	1800	4	284T	LM31607	C/A	5,177	SD4P25TCN61ET1	355	60	230/460	64/32	250%	S, US
	1800	4	284T	LM30760	C/A	5,177	SD4P25TCN6006ET1	355	60	200	73.5	250%	S, US
	1200	6	324T	LM28216	C/A	7,439	SD6S25TC61YET1	499	60	230/460	64/32	250%	S, US
	1200	6	324T	LM28217	C/A	7,439	SD6P25TCN6006ET1	499	60	200	73.6	250%	S, US
	1200	4	324T	LM30754	C/A	6,645	SD4P25TCN41ET1	480	40	230/460	65/32.5	275%	S, US
	1200	4	324T	LM30755	C/A	6,645	SD4P25TCN4006ET1	480	40	200	74.8	275%	S, US
	900	4	326T	LM28218	C/A	7,998	SD4P25TCN31ET1	533	30	230/460	64/32	275%	S, US
	900	4	326T	LM28219	C/A	7,998	SD4P25TCN3006ET1	533	30	200	73.6	275%	S, US

▼ LM Numbers are Lincoln Models

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Explosion Proof Motors

Automotive Duty Motors

Pump Motors

Washguard Motors

Agricultural Motors

HVAC / Fan Motors

Special Voltage Motors

Definite Purpose Motors

Brake Motors

Definite Purpose Motors

VVVF (Variable Voltage-Variable Frequency) Traction Elevator Hoist Motors

Three Phase - Drip-Proof - C Face Less Base - with Encoder - F1 Conduit Box

HP	SYN RPM	No. of Poles	Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	HZ	Voltage	F. L. Amps	Rated Accel. Torque	♥ Notes
30	1800	4	286T	LM30702	C/A	5,903	SD4S30TCN61YET1	397	60	230/460	72/36	250%	S, US
	1800	4	286T	LM30762	C/A	5,903	SD4P30TCN6006ET1	397	60	200	83	250%	S, US
	1200	6	326T	LM27971	✓	8,260	SD6S30TCN61YET1	537	60	230/460	76/38	225%	S, US
	1200	6	326T	LM28220	✓	8,260	SD6S30TCN6006YET1	557	60	200	87.4	225%	S, US
	1200	4	326T	LM30756	C/A	7,372	SD4P30TCN41ET1	532	40	230/460	74/37	275%	S, US
	1200	4	326T	LM30757	C/A	7,372	SD4P30TCN4006ET1	532	40	200	85	275%	S, US
	900	4	364T	LM28221	C/A	9,145	SD4P30TCN31ET1	720	30	230/460	74/37	275%	S, US
	900	4	364T	LM28222	C/A	9,145	SD4P30TCN3006ET1	720	30	200	85	275%	S, US
40	1800	4	324T	LM30763	C/A	7,333	SD4P40TCN61ET1	480	60	230/460	98/49	250%	S, US
	1800	4	324T	LM30764	C/A	7,333	SD4P40TCN6006ET1	480	60	200	113	250%	S, US
	1200	6	364T	LM28223	✓	10,028	SD6P40TCN61ET1	724	60	230/460	98/49	250%	S, US
	1200	6	364T	LM28224	C/A	10,028	SD6P40TCN6006ET1	724	60	200	113	250%	S, US

▼ LM Numbers are Lincoln Models

♥ Note listing on inside back flap

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Encoder Pigtail Kits for VVVF Elevator Duty Motors

Applications:

Encoder pigtail kits are used to extend the length of the existing encoder leads.

▼ Kit Number	Stock	Description	List Price
LM30561		30 ft. encoder cable kit	764
LM31752		40 ft. encoder cable kit	764
LM30881		50 ft. encoder cable kit	902

▼ LM Numbers are Lincoln Models

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View On-line Technical Information



Definite Purpose Motors

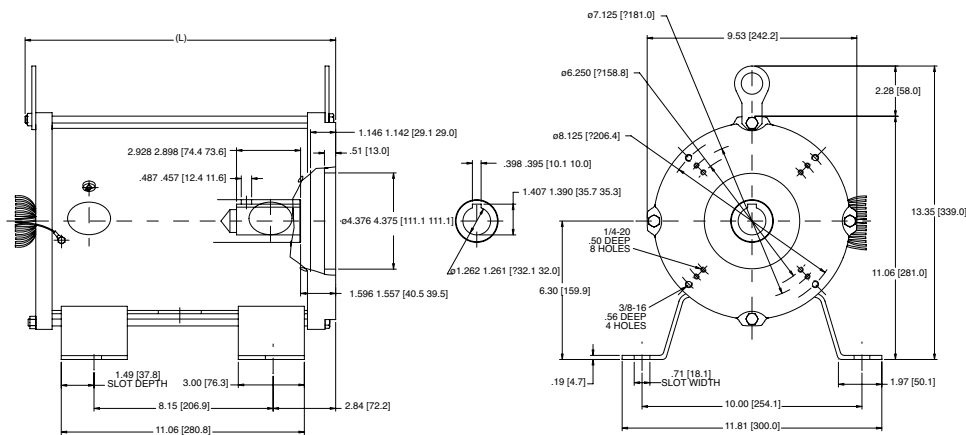
Submersible Hydraulic Elevator Pump Motors

Applications:

These motors are designed to meet the demands in the Hydraulic Elevator Pump Industry. Our Submersible Hydraulic pump elevator motors are ready to be placed in elevator systems for applications in hydraulic pump passenger, service, freight and low-rise elevators. Rated up to 6 floors at speeds up to 200 fpm.

Features:

- Intermittent duty
- Suitable for Wye-Delta starters
- 1.0 service factor and 70°C ambient rated
- Three bolt circles, 12 mounting holes, and face mounting to accept both the IMO and Allweiler pumps
- 10 foot long leads, spliced 40 inches from motor to prevent wicking of hydraulic fluid
- Thermostat leads are marked P1 and P2
- Class F insulation
- Two stainless steel nameplates, one shipped separate for remote mount
- UL recognized component listing and CSA approved



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Definite Purpose Motors

Submersible Hydraulic Elevator Pump Motors

Three Phase - Open Submersible - Rigid Base

HP	RPM 60 Hz	Frame	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	KVA Code	F. L. Amps	Locked Rotor Amps	F.L. Eff.	App. Wgt. (lbs)	♥Notes
15	3600	160Z	LM29656	✓	1,094	SD2S15Z6006YEH3	110	200	H	53.0	268	72.2	S, CN	S, CN
	3600	160Z	LM29657	✓	1,094	SD2S15Z61YEH3	110	230/460	H	46/23	250/125	72.2	S, CN	S, CN
	3600	160Z	LM29658	✓	1,094	SD2S15Z65YEH3	110	575	H	18.4	100	72.2	S, CN	S, CN
20	3600	160Z	LM29659	✓	1,122	SD2S20Z6006YEH3	112	200	G	64.5	363	76.4	S, CN	S, CN
	3600	160Z	LM29660	✓	1,122	SD2S20Z61YEH3	112	230/460	G	56/28	316/158	76.4	S, CN	S, CN
	3600	160Z	LM29661	✓	1,122	SD2S20Z65YEH3	112	575	G	22.4	126	76.4	S, CN	S, CN
25	3600	160Z	LM29662	✓	1,222	SD2S25Z6006YEH3	115	200	G	77.1	268	79.0	S, CN	S, CN
	3600	160Z	LM29663	✓	1,222	SD2S25Z61YEH3	115	230/460	G	67/33.5	250/125	79.0	S, CN	S, CN
	3600	160Z	LM29664	✓	1,222	SD2S25Z65YEH3	115	575	G	26.8	100	79.0	S, CN	S, CN
30	3600	160Z	LM29665	✓	1,362	SD2S30Z6006YEH3	119	200	G	92.0	268	79.9	S, CN	S, CN
	3600	160Z	LM29666	✓	1,362	SD2S30Z61YEH3	119	230/460	G	80/40	250/125	79.9	S, CN	S, CN
	3600	160Z	LM29667	✓	1,362	SD2S30Z65YEH3	119	575	G	32.0	100	79.9	S, CN	S, CN
40	3600	160Z	LM29668	✓	1,746	SD2S40Z6006YEH3	132	200	G	115.0	268	84.0	S, CN	S, CN
	3600	160Z	LM29669	✓	1,746	SD2S40Z61YEH3	132	230/460	G	100/50	250/125	84.0	S, CN	S, CN
	3600	160Z	LM29670	✓	1,746	SD2S40Z65YEH3	132	575	G	40.0	100	84.0	S, CN	S, CN
50	3600	160Z	LM29671	✓	1,991	SD2S50Z6006YEH3	143	200	H	140.0	268	84.0	S, CN	S, CN
	3600	160Z	LM29672	✓	1,991	SD2S50Z61YEH3	143	230/460	H	122/61	250/125	84.0	S, CN	S, CN
	3600	160Z	LM29673	✓	1,991	SD2S50Z65YEH3	143	575	H	48.8	100	84.0	S, CN	S, CN

▼ LM Numbers are Lincoln Models

♥ Note listing on inside back flap

Specifications are subject to change without notice

Conversion Kit

L32 Kit Information:

Used to adapt the Lincoln Submersible Elevator motors to some IMO and Alweiler Pumps.

Kit includes needed through-bolts to mount this kit to these motors

L32 Bracket Conversion Kit

▼ Catalog Number	Desc. Sym	App. Wgt. (lbs)	List Price
LM31777	A	12	586

▼ LM Numbers are Lincoln Models

Specifications are subject to change without notice



View On-line Technical Information



Definite Purpose Motors Unit Handling Motors

Applications:

Unit and baggage handling, conveyors, packaging equipment machine tools, elevators and door openers where a conduit box at 12:00 position is needed due to mounting size restrictions

Features:

- Low profile conduit box at the 12:00 position
- Base includes both 56H and 143-5T mounting holes and slots



Single Phase - TEFC - Rigid C Face

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps 230V	Service Factor	"C" Dim. (Inches)	♥Notes
1/2	1800	56C	117701.00	✓	523	C6C17FK92	22	115/208-230	4.4	1.15	12.48	S, US
3/4	1800	56C	117702.00	✓	569	C6C17FK94	26	115/208-230	5.4	1.15	12.98	S, US
1	1800	56C	117703.00	✓	617	C6C17FK93	30	115/208-230	6.4	1.15	12.98	S, US

Specifications are subject to change without notice

♥ Note listing on inside back flap

Single Phase - TEFC - C Face Less Base

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps 230V	Service Factor	"C" Dim. (Inches)	♥Notes
1/2	1800	56C	117704.00	✓	502	C6C17FC175	21	115/208-230	4.4	1.15	10.98	S, US
3/4	1800	56C	117705.00	✓	549	C6C17FC176	25	115/208-230	5.4	1.15	11.48	S, US
1	1800	56C	117706.00	✓	590	C6C17FC177	29	115/208-230	6.4	1.15	11.48	S, US

Specifications are subject to change without notice

♥ Note listing on inside back flap

Three Phase - TEFC - Rigid C Face

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps 230V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
1/2	1800	56C	117707.00	✓	434	C6T17FK99	21	208-230/460	2.0	74.0	1.15	12.48	S, US
3/4	1800	56C	117708.00	✓	459	C6T17FK100	22	208-230/460	2.8	77.0	1.15	12.48	S, US
1	1800	56C	117709.00	✓	492	C6T17FK101	30	208-230/460	3.6	77.0	1.15	12.48	S, US
	1800	143TC	121982.00	✓	717	C143T17FK23	32	208-230/460	3.4	85.5	1.15	12.92	S, US
1.5	1800	56C	117710.00	✓	535	C6T17FK102	30	208-230/460	5.0	78.5	1.15	12.48	S, US
	1800	143TC	121983.00	✓	757	C143T17FK24	34	208-230/460	5.6	86.5	1.15	13.42	S, US
2	1800	145TC	121984.00	✓	834	C145T17FK65	45	208-230/460	5.8	86.5	1.15	13.92	S, US

Green items are Premium Efficient

♥ Note listing on inside back flap

Specifications are subject to change without notice

Three Phase - TEFC - C Face Less Base

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps 230V	% F.L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
1/2	1800	56C	117711.00	✓	424	C6T17FC226	20	208-230/460	2.0	74.0	1.15	10.48	S, US
3/4	1800	56C	117712.00	✓	453	C6T17FC227	22	208-230/460	2.8	77.0	1.15	10.48	S, US
1	1800	56C	117713.00	✓	485	C6T17FC228	24	208-230/460	3.8	77.0	1.15	10.98	S, US
	1800	143TC	121985.00	✓	599	C143T17FC36	36	208-230/460	3.1	82.5	1.15	11.92	S, US
1.5	3600	56C	117714.00	✓	529	C6T34FC107	29	208-230/460	4.2	78.5	1.15	11.48	S, US
	1800	143TC	121986.00	✓	625	C145T17FC114	41	208-230/460	4.4	84.0	1.15	12.92	S, US
2	1800	145TC	121987.00	✓	643	C145T17FC115	44	208-230/460	5.6	84.0	1.15	13.42	S, US

Specifications are subject to change without notice

♥ Note listing on inside back flap

View On-line Technical Information



Explosion Proof
Motors

Automotive
Duty Motors

Pump
Motors

Washguard
Motors

Agricultural
Motors

HVAC / Fan
Motors

Special Voltage
Motors

Definite
Purpose Motors

Brake Motors

Definite Purpose Motors

Export Only Motors - Three Phase - EAct and Standard Efficiency

Specifications:
These motors comply to the EAct mandates of 1997, but do not comply with EISA mandates of Dec. 2010.
They are not intended for use in the USA, and can be used on machinery that is exported out of the USA

Three Phase - TEFC - Rigid Base

HP	RPM @ 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	App. Wgt. (lbs)	Voltage	% F.L. Eff.	♥Notes
1	1725	143T	EXG120014.00	✓	507	31	208-230/460	82.5	S, US
	1725	143T	EXG151696.60	C/A	544	49	208-230/460	84.0	C, CN
1 1/2	3450	145T	EXG120086.00	✓	560	45	208-230/460	82.5	S, US
	3450	143T	EXG151698.60	C/A	601	45	208-230/460	82.5	C, CN
	1725	145T	EXG120015.00	✓	513	36	208-230/460	84.0	S, US
	1725	145T	EXG151702.60	C/A	550	53	208-230/460	85.5	C, CN
2	3450	145T	EXG120088.00	✓	644	45	208-230/460	84.0	S, US
	3450	145T	EXG151704.60	C/A	690	49	208-230/460	84.0	C, CN
	1725	145T	EXG120016.00	✓	542	46	208-230/460	84.0	S, US
	1725	145T	EXG151703.60	C/A	584	56	208-230/460	85.5	C, CN
3	3450	145T	EXG120185.00	C/A	737	42	208-230/460	85.5	S, US
	3450	182T	EXG130099.00	C/A	789	60	208-230/460	85.5	S, MX
	3510	182T	EXG151563.60	C/A	847	93	208-230/460	85.5	C, CN
	1740	182T	EXG130008.00	✓	642	68	208-230/460	87.5	S, MX
	1750	182T	EXG151320.60	C/A	827	94	208-230/460	87.5	C, CN
	5	3500	184T	EXG150299.60	C/A	856	100	208-230/460	87.5
	3450	184T	EXG130101.00	C/A	908	73	208-230/460	87.5	S, MX
	1740	184T	EXG130027.00	✓	740	80	208-230/460	87.5	S, MX
	1750	184T	EXG151322.60	✓	877	101	208-230/460	87.5	C, CN
	7 1/2	3450	184T	EXG131082.00	C/A	1012	91	208-230/460	88.5
	3450	S213T	EXG130103.00	C/A	1039	101	208-230/460	88.5	S, MX
	3510	213T	EXG150158.60	C/A	1130	150	208-230/460	88.5	C, CN
	1740	213T	EXG140578.00	✓	990	144	208-230/460	89.5	S, MX
	1750	213T	EXG150157.60	✓	1019	153	208-230/460	89.5	C, CN
10	3510	215T	EXG140686.00	C/A	1331	126	208-230/460	89.5	S, MX
	3510	215T	EXG150159.60	✓	1314	167	208-230/460	89.5	C, CN
	1740	215T	EXG140489.00	✓	1073	167	208-230/460	89.5	S, MX
	1750	215T	EXG150140.60	✓	1147	176	208-230/460	89.5	C, CN
15	3510	215T	EXG140687.00	C/A	1670	140	208-230/460	90.2	S, MX
	3510	215T	EXG151317.60	C/A	1755	168	208-230/460	90.2	C, CN
	3525	254T	EXG150062.60	✓	1757	260	208-230/460	90.2	C, CN
	1770	254T	EXG150066.60	✓	1809	284	208-230/460	91.0	C, CN
20	3525	256T	EXG150033.60	✓	2389	296	208-230/460	90.2	C, CN
	1750	256T	EXG150007.60	✓	2226	321	208-230/460	91.0	C, CN
25	3525	256T	EXG151318.60	C/A	2815	307	208-230/460	91.0	C, CN
	3550	284TS	EXG150035.60	C/A	2886	349	208-230/460	91.0	C, CN
	1770	284T	EXG150011.60	✓	2619	370	208-230/460	92.4	C, CN
	30	1770	286T	✓	3185	428	208-230/460	92.4	C, CN
40	1780	324T	EXG150019.60	✓	4112	528	208-230/460	93.0	C, CN
50	1780	326T	EXG150023.60	✓	5069	561	208-230/460	93.0	C, CN
60	1780	364T	EXG150027.60	C/A	7402	687	208-230/460	93.6	C, CN
75	1780	365T	EXG150031.60	C/A	8545	723	208-230/460	94.1	C, CN
100	1780	405T	EXG150087.60	C/A	11480	1050	208-230/460	94.5	C, CN
125	1780	444T	EXG151369.60	C/A	15241	1920	460	94.5	C, CN
150	1790	445T	EXG151371.60	C/A	17101	1900	460	95.0	C, CN
200	1790	447T	EXG150352.60	C/A	21800	2053	460	95.0	C, CN

Specifications are subject to change without notice ♥ Note listing on inside back flap

Export Only Motors - Three Phase - EPAct and Standard Efficiency

Three Phase - TEFC - C Face With Base

HP	RPM @ 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	App. Wgt. (lbs.)	Voltage	% F.L. Eff.	♥Notes
1	1740	145TC	EXG121286.00	C/A	596	35	208-230/460	82.5%	S, US
1 1/2	1725	145TC	EXG121287.00	C/A	595	37	208-230/460	84.0%	S, US
2	1725	145TC	EXG120276.00	C/A	623	45	208-230/460	84.0%	S, US
3	1760	182TC	EXG130326.00	✓	773	68	208-230/460	87.5%	S, MX
	1750	182TC	EXG151565.60	C/A	896	94	208-230/460	87.5%	C, CN
5	1760	184TC	EXG130328.00	✓	887	81	208-230/460	87.5%	S, MX
	1750	184TC	EXG151566.60	C/A	983	101	208-230/460	87.5%	C, CN
7 1/2	1740	213TC	EXG140183.00	C/A	1061	153	208-230/460	89.5%	S, MX
	1760	213TC	EXG150165.60	C/A	1122	156	208-230/460	89.5%	C, CN
10	1740	215TC	EXG140147.00	C/A	1242	162	208-230/460	89.5%	S, MX
	1760	215TC	EXG150167.60	C/A	1321	178	208-230/460	89.5%	C, CN
15	1770	254TC	EXG150102.60	C/A	1895	268	208-230/460	91.0%	C, CN
20	1770	256TC	EXG150080.60	C/A	2313	321	208-230/460	91.0%	C, CN
25	1770	284TC	EXG150081.60	C/A	2982	387	208-230/460	92.4%	C, CN
30	1770	286TC	EXG150082.60	C/A	3297	433	208-230/460	92.4%	C, CN
40	1780	324TC	EXG150083.60	C/A	4499	572	208-230/460	93.0%	C, CN
50	1780	326TC	EXG150084.60	C/A	5215	631	208-230/460	93.0%	C, CN
60	1780	364TC	EXG150085.60	C/A	7866	699	208-230/460	93.6%	C, CN
75	1780	365TC	EXG150086.60	C/A	9977	757	208-230/460	94.1%	C, CN
100	1780	405TC	EXG151680.60	C/A	12479	1100	208-230/460	94.5%	C, CN

C/A - Check Availability

♥ Note listing on inside back flap

Specifications are subject to change without notice

Three Phase - TEFC - C Face Less Base

HP	RPM @ 60 Hz	NEMA Frame	Catalog Number	Stock	List Price	App. Wgt. (lbs.)	Voltage	% F.L. Eff.	♥Notes
1	1725	143TC	EX120024.00	C/A	493	26	208-230/460	77.0%	S, US
1 1/2	1725	145TC	EX120037.00	✓	506	32	208-230/460	80.0%	S, US
2	1725	145TC	EX120038.00	✓	542	35	208-230/460	81.5%	S, US
3	1725	145TC	EX121035.00	✓	718	44	208-230/460	82.5%	S, US
	1740	182TC	EX131491.00	✓	688	52	208-230/460	82.5%	S, MX
5	1725	184TC	EX131492.00	✓	788	64	208-230/460	82.5%	S, MX
7 1/2	1740	184TC	EX131606.00	✓	1,013	66	208-230/460	87.0%	S, MX
	1740	213TC	EX151346.60	C/A	1,097	162	208-230/460	87.9%	C, CN
	1750	S213TC	EX131528.00	C/A	1,013	102	208-230/460	87.0%	S, MX
10	1740	215TC	EX140109.00	C/A	1,213	141	208-230/460	89.5%	S, MX
	1750	215TC	EX151348.60	C/A	1,292	185	208-230/460	88.4%	C, CN
15	1760	254TC	EX151350.60	C/A	1,834	284	208-230/460	90.0%	C, CN
20	1760	256TC	EX151352.60	C/A	2,313	270	208-230/460	91.2%	C, CN
25	1760	284TC	EX151507.60	C/A	2,913	390	208-230/460	91.3%	C, CN
30	1760	286TC	EX151508.60	C/A	3,502	411	208-230/460	91.5%	C, CN
40	1760	324TC	EX151509.60	C/A	4,480	548	208-230/460	92.1%	C, CN
50	1760	326TC	EX151510.60	C/A	5,168	594	208-230/460	92.4%	C, CN
60	1760	364TC	EX151519.60	C/A	7,767	778	208-230/460	92.7%	C, CN

C/A - Check Availability

♥ Note listing on inside back flap

Specifications are subject to change without notice

View On-line Technical Information



Explosion Proof Motors

Automotive Duty Motors

Pump Motors

Washguard Motors

Agricultural Motors

HVAC / Fan Motors

Special Voltage Motors

Definite Purpose Motors

Brake Motors

Brakemotors



Features:

- Fail-safe positive stop and holding brakes
- Load stops automatically when power is turned off
- Manual brake release designs
- Dual voltage brake coils
- Single and three phase models
- Washdown duty models
- Brake kits available
- Coupler brake kits available
- High Cycle models available

Applications:

For use where quick response stopping and holding is required in the application, which may include conveyors, hoists, packaging equipment etc...



Brakemotors

Single Phase & Three Phase

Single Phase - TENV/TEFC - C Face With Base

HP	RPM 60 Hz	NEMA Frame	Brake Rating (ft-lbs)	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	Service Factor	"C" Dim. (Inches)	♥Notes
1/3	1800	56C	3	114165.00	✓	1,008	C6C17NK19	28	115/208-230	2.9	1.15	14.06	S, US, 12
1/2	1800	56C	3	111950.00	✓	1,089	C6C17FK20	32	115/208-230	4.4	1.00	15.06	S, US, 13
3/4	1800	56C	6	114167.00	✓	1,431	C6C17FK50	38	115/208-230	5.4	1.15	15.56	S, US, 13
1	1800	56C	6	111951.00	✓	1,516	C6K17FK21	38	115/208-230	5.3	1.00	16.07	S, US, 13, 53
1 1/2	1800	145TC	10	121815.00	✓	1,606	C145K17FK17	40	115/208-230	8.8	1.00	18.23	S, US, 13, 53
2	1800	145TC	10	121816.00	✓	1,644	C145K17FK16	40	115/208-230	9.2	1.00	19.23	S, US, 13, 53

Note 12 - TENV

♥ Note listing on inside back flap

Specifications are subject to change without notice

Three Phase - Drip-Proof - Rigid Base

HP	RPM 60 Hz	NEMA Frame	Brake Rating (ft-lbs)	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	Service Factor	% F.L. Eff.	"C" Dim. (Inches)	♥Notes
1/2	1800	56	3	114162.00	C/A	981	C6T17DB46	28	208-230/460	2.0	1.25	74.0	13.56	S, US
3/4	1800	56	6	114163.00	C/A	1,144	C6T17DB47	29	208-230/460	2.8	1.25	77.0	14.06	S, US
1	1800	56	6	114164.00	C/A	1,246	C6T17DB48	32	208-230/460	4.2	1.15	78.5	14.06	S, US
1 1/2	1800	145T	10	G120370.00	C/A	1,429	C145T17DB64	44	208-230/460	4.4	1.15	84.0	16.00	S, US
2	1800	145T	10	G120371.00	✓	1,622	C145T17DB65	45	208-230/460	6.0	1.15	84.0	16.00	S, US
3	1800	182T	15	G131626.00	C/A	2,002	C182T17DB46	65	208-230/460	8.4	1.15	86.5	16.89	S, MX
5	1800	184T	25	G131627.00	C/A	2,517	C184T17DB63	95	208-230/460	13.2	1.15	87.5	17.89	S, MX
7 1/2	1800	213T	35	G140611.00	✓	3,077	C213T17DB7	130	208-230/460	20.0	1.15	88.5	23.01	S, MX
10	1800	215T	50	G140635.00	✓	3,896	C215T17DB23	138	208-230/460	28.0	1.15	89.5	25.01	S, MX

35 and 50 Ft-lb brakes - Horizontal mounting only

♥ Note listing on inside back flap

All 180 and 210 frame Rolled Steel motors have Class F Insulation.

C/A - Check Availability

Specifications are subject to change without notice



Three Phase - Drip-Proof - C Face Less Base

HP	RPM 60 Hz	NEMA Frame	Brake Rating (ft-lbs)	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	Service Factor	% F.L. Eff.	"C" Dim. (Inches)	♥Notes
1/2	1800	56C	3	114156.00	✓	1,008	C6T17DC53	28	208-230/460	2.0	1.25	74.0	13.56	S, US
3/4	1800	56C	6	114157.00	✓	1,174	C6T17DC55	38	208-230/460	2.8	1.25	77.0	14.06	S, US
1	1800	56C	6	114166.00	✓	1,269	C6T17DC54	40	208-230/460	3.4	1.15	78.5	14.06	S, US
	1800	143TC	6	121678.00	C/A	1,269	C143T17DC14	42	208-230/460	3.4	1.15	78.5	14.50	S, US
1 1/2	1800	56C	10	116766.00	✓	1,476	C6T17DC83	43	208-230/460	5.6	1.15	78.5	15.50	S, US
	1800	145TC	10	120372.00	C/A	1,476	C145T17DC16	43	208-230/460	5.6	1.15	78.5	15.50	S, US
2	1800	145TC	10	120373.00	✓	1,663	C145T17DC17	47	208-230/460	6.2	1.15	78.5	16.00	S, US
3	1800	182TC	15	131624.00	✓	2,093	C182T17DC21	56	208-230/460	10.0	1.15	80.0	16.40	S, MX
5	1800	184TC	25	131625.00	✓	2,598	C184T17DC18	76	208-230/460	14.2	1.15	84.0	17.35	S, MX

C/A - Check Availability

♥ Note listing on inside back flap

Specifications are subject to change without notice

View On-line Technical Information



Explosion Proof
Motors

Automotive
Duty Motors

Pump
Motors

Washguard
Motors

Agricultural
Motors

HVAC / Fan
Motors

Special Voltage
Motors

Define
Purpose Motors

Brake Motors

Brakemotors

Three Phase



Three Phase - Drip-Proof - C Face With Base

HP	RPM 60 Hz	NEMA Frame	Brake Rating (ft.-lbs)	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	Service Factor	% F.L. Eff.	"C" Dim. (Inches)	♥Notes
1/2	1800	56C	3	111326.00	✓	1,017	C6T17DK7	31	208-230/460	2.0	1.25	74.0	13.56	S, US
3/4	1800	56C	6	111327.00	✓	1,191	C6T17DK8	34	208-230/460	2.8	1.25	77.0	14.06	S, US
1	1800	56C	6	111328.00	✓	1,286	C6T17DK9	42	208-230/460	4.2	1.15	78.5	14.06	S, US
1 1/2	1800	145TC	10	G121053.00	C/A	1,479	C145T17DK15	42	208-230/460	4.4	1.15	84.0	16.00	S, US
2	1800	145TC	10	G121054.00	✓	1,663	C145T17DK14	51	208-230/460	6.0	1.15	84.0	16.50	S, US
3	1800	182TC	15	G131558.00	✓	2,303	C182T17DK14	84	208-230/460	8.4	1.15	86.5	16.90	S, MX
5	1800	184TC	25	G131559.00	✓	2,806	C184T17DK21	97	208-230/460	13.2	1.15	87.5	18.35	S, MX
7 1/2	1800	213TC	35	G140610.00	✓	3,270	C213T17DK5	115	208-230/460	20.0	1.15	88.5	23.51	S, MX
10	1800	215TC	50	G140638.00	C/A	4,088	C215T17DK4	125	208-230/460	28.0	1.15	89.5	25.01	S, MX

35 and 50 Ft.-lbs brakes - Horizontal mounting only

♥ Note listing on inside back flap

C/A - Check Availability

Specifications are subject to change without notice



Three Phase - TEFC - Rigid Base

HP	RPM 60 Hz	NEMA Frame	Brake Rating (ft.-lbs)	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	Service Factor	% F.L. Eff.	"C" Dim. (Inches)	♥Notes
1/3	1800	56	3	114151.00	✓	957	C6T17NB51	28	208-230/460	1.3	1.15	72.0	13.56	S, US, 12
1/2	1800	56	3	114150.00	✓	1,043	C6T17NB50	33	208-230/460	1.8	1.15	78.5	14.06	S, US, 12
	1200	56	6	114149.00	✓	1,438	C6T11FB16	33	208-230/460	2.4	1.15	70.0	15.56	S, US
3/4	1800	56	6	114147.00	✓	1,221	C6T17FB79	34	208-230/460	2.8	1.15	77.0	15.56	S, US
	1200	56	6	114148.00	✓	1,509	C6T11FB15	43	208-230/460	3.0	1.15	75.5	16.06	S, US
1	1800	56	6	114146.00	✓	1,414	C6T17FB80	37	208-230/460	3.8	1.15	77.0	16.06	S, US
	1800	143T	6	G121679.00	✓	1,396	C143T17FB22	40	208-230/460	3.1	1.15	82.5	17.50	S, US
	1200	145T	10	G121050.00	✓	1,991	C145T11FB18	45	208-230/460	3.6	1.15	80.0	17.52	S, US
1 1/2	1800	56	10	116767.00	✓	1,588	C6T17FB153	44	208-230/460	4.4	1.15	84.0	17.08	S, US
	1800	145T	10	G120329.00	✓	1,566	C145T17FB72	44	208-230/460	4.4	1.15	84.0	17.52	S, US
2	1800	145T	10	G120330.00	✓	1,603	C145T17FB73	53	208-230/460	5.6	1.15	84.0	18.00	S, US
	1200	184T	15	G131620.00	✓	2,675	C184T11FB16	80	208-230/460	7.2	1.15	86.5	20.33	S, MX
3	1800	182T	15	G131613.00	✓	2,188	C182T17FB43	78	230/460	8.2	1.15	87.5	18.83	S, MX
	1200	213T	35	G140601.00	✓	3,970	C213T11FB2	147	208-230/460	12.0	1.15	87.5	26.49	S, MX
5	1800	184T	25	G131614.00	✓	2,714	C184T17FB52	102	230/460	13.0	1.15	87.5	20.78	S, MX
7 1/2	1800	213T	35	G140603.00	✓	3,492	C213T17FB11	162	208-230/460	20.4	1.15	89.5	26.49	S, MX
10	1800	215T	50	G140636.00	✓	4,006	C215T17FB25	174	208-230/460	26.0	1.15	89.5	27.99	S, MX

Note 12 - TENV

♥ Note listing on inside back flap

35 and 50 Ft.-lbs brakes - Horizontal mounting only

Specifications are subject to change without notice



View On-line Technical Information



Explosion Proof
Motors

Automotive
Duty Motors

Pump
Motors

Washguard
Motors

Agricultural
Motors

HVAC / Fan
Motors

Special Voltage
Motors

Definite
Purpose Motors

Brake Motors

Three Phase - TEFC - C Face With Base

HP	RPM 60 Hz	NEMA Frame	Brake Rating (ft-lbs)	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	Service Factor	% F.L. Eff.	"C" Dim. (Inches)	♥Notes
1/3	1800	56C	3	110669.00	✓	961	C6T17NK1	30	208-230/460	1.3	1.15	72.0	13.56	S, US
1/2	1800	56C	3	110670.00	✓	1,080	C6T17NK2	34	208-230/460	1.8	1.15	78.5	14.06	S, US
	1800	56C	3	114154.00	✓	1,080	C6T17FK49	34	208-230/460	2.4	1.15	74.0	15.06	S, US
	1200	56C	3	114152.00	✓	1,554	C6T11FK5	34	208-230/460	2.4	1.15	70.0	15.56	S, US
3/4	1800	56C	6	110671.00	✓	1,264	C6T17NK3	34	208-230/460	2.5	1.15	80.0	14.56	S, US
	1800	56C	6	114155.00	✓	1,264	C6T17FK48	46	208-230/460	2.8	1.00	77.0	15.56	S, US
1	1800	56C	6	110679.00	✓	1,487	C6T17FK1	32	208-230/460	3.6	1.15	77.0	15.56	S, US
	1800	143TC	6	G121557.00	✓	1,465	C143T17FK16	43	208-230/460	3.1	1.15	82.5	17.50	S, US
1 1/2	1800	145TC	10	G121051.00	✓	1,640	C145T17FK41	45	230/460	4.4	1.15	84.0	17.50	S, US
2	1800	145TC	10	G121052.00	✓	1,689	C145T17FK42	59	208-230/460	5.6	1.15	84.0	18.00	S, US
3	1800	182TC	15	G131617.00	✓	2,294	C182T17FK17	79	230/460	8.2	1.15	87.5	18.83	S, MX
5	1800	184TC	25	G131618.00	✓	2,866	C184T17FK19	117	230/460	13.0	1.15	87.5	20.78	S, MX
7 1/2	1800	213TC	35	G140605.00	✓	3,658	C213T17FK10	163	208-230/460	20.4	1.15	89.5	26.49	S, MX
10	1800	215TC	50	G140639.00	✓	4,696	C215T17FK6	175	208-230/460	28.0	1.15	89.5	27.99	S, MX

35 and 50 Ft-lbs brakes - Horizontal mounting only
Specifications are subject to change without notice

♥ Note listing on inside back flap



Three Phase - TEFC - C Face Less Base

HP	RPM 60 Hz	NEMA Frame	Brake Rating (ft-lbs)	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	Service Factor	% F.L. Eff.	"C" Dim. (Inches)	♥Notes
1/3	1800	56C	3	114158.00	✓	977	C6T17NC194	26	208-230/460	1.3	1.15	72.0	13.56	S, US, 12
1/2	1800	56C	3	114159.00	✓	1063	C6T17FC111	26	208-230/460	2.0	1.15	74.0	15.06	S, US
3/4	1800	56C	6	114160.00	✓	1248	C6T17FC112	34	208-230/460	2.8	1.15	77.0	15.06	S, US
1	1800	56C	6	114161.00	✓	1440	C6T17FC110	31	208-230/460	3.6	1.15	77.0	15.56	S, US
	1800	143TC	6	121556.00	✓	1440	C143T17FC30	37	208-230/460	3.8	1.15	77.0	17.00	S, US
1 1/2	1800	56C	10	116768.00	✓	1615	C6T17FC212	40	208-230/460	5.0	1.15	78.5	16.56	S, US
	1800	145TC	10	120331.00	✓	1615	C145T17FC11	40	208-230/460	5.0	1.15	78.5	17.00	S, US
2	1800	145TC	10	120332.00	✓	1657	C145T17FC12	51	208-230/460	6.0	1.15	84.0	18.00	S, US
3	1800	182TC	15	131610.00	✓	2295	C182T17FC28	69	230/460	9.0	1.15	84.0	18.73	S, MX
5	1800	184TC	25	131611.00	✓	2838	C184T17FC34	92	230/460	13.2	1.15	86.0	19.18	S, MX
7 1/2	1800	S213TC	35	131612.00	✓	3631	C184T17FC36	149	230/460	19.6	1.15	87.0	25.29	S, MX
10	1800	215TC	50	140637.00	C/A	4611	C215T17FC8	136	208-230/460	28.0	1.15	89.5	27.99	S, MX

Note 12 - TENV

35 and 50 Ft-lbs brakes - Horizontal mounting only

C/A - Check Availability

Specifications are subject to change without notice

♥ Note listing on inside back flap

View On-line Technical Information



Brakemotors

Three Phase Washguard®



Washguard® Brakemotors - TENV/TEFC - C Face With Base

HP	RPM 60 Hz	NEMA Frame	Brake Rating (ft-lbs)	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	Service Factor	% F.L. Eff.	"C" Dim. (Inches)	♥Notes
1/3	1800	56C	3	116466.00	✓	1,381	C6T17VK28	40	208-230/460	1.3	1.15	72.0	14.00	S, US, 12
1/2	1800	56C	3	116467.00	✓	1,408	C6T17VK30	42	208-230/460	1.8	1.15	78.5	14.50	S, US, 12
3/4	1800	56C	6	116468.00	✓	1,670	C6T17VK29	44	208-230/460	2.5	1.15	80.0	15.00	S, US, 12
1	1800	56C	6	116469.00	✓	1,726	C6T17VK27	48	208-230/460	3.2	1.15	80.0	15.50	S, US, 12
	1800	143TC	6	121616.00	✓	1,726	C143T17VK7	49	208-230/460	3.2	1.15	80.0	16.06	S, US, 12
1 1/2	1800	145TC	10	G121617.00	✓	2,392	C145T17WK22	50	208-230/460	4.4	1.15	84.0	19.01	S, US, 13
2	1800	145TC	10	G121618.00	✓	2,481	C145T17WK21	62	208-230/460	5.6	1.15	84.0	19.01	S, US, 13

Note 12 - TENV

Specifications are subject to change without notice

♥ Note listing on inside back flap

Washguard® Brakemotors - TENV/TEFC - C Face Less Base

HP	RPM 60 Hz	NEMA Frame	Brake Rating (ft-lbs)	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	Service Factor	% F.L. Eff.	"C" Dim. (Inches)	♥Notes
1/3	1800	56C	3	116462.00	✓	1,332	C6T17VC43	39	208-230/460	1.3	1.15	72.0	14.00	S, US, 12
1/2	1800	56C	3	116463.00	✓	1,365	C6T17VC42	41	208-230/460	1.8	1.15	78.5	14.50	S, US, 12
3/4	1800	56C	6	116464.00	✓	1,625	C6T17VC44	43	208-230/460	2.5	1.15	80.0	15.00	S, US, 12
1	1800	56C	6	116465.00	✓	1,683	C6T17VC45	45	208-230/460	3.2	1.15	80.0	15.50	S, US, 12
	1800	143TC	6	121613.00	✓	1,683	C143T17VC8	46	208-230/460	3.2	1.15	80.0	15.56	S, US, 12
1 1/2	1800	145TC	10	121614.00	✓	2,332	C145T17WC20	49	208-230/460	5.0	1.15	78.5	18.01	S, US, 13
2	1800	145TC	10	121615.00	✓	2,398	C145T17WC19	61	208-230/460	6.2	1.15	81.5	18.51	S, US, 13

Note 12 - TENV

Specifications are subject to change without notice

♥ Note listing on inside back flap

Stainless Steel Brakemotors



Three Phase - TENV/TEFC - C Face With Base

HP	RPM 60 Hz	NEMA Frame	Brake Rating (ft-lbs)	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	Service Factor	% F.L. Eff.	"C" Dim. (Inches)	♥Notes
1/2	1800	56C	3	116483.00	✓	5,207	CZ6T17VK31	59	208-230/460	1.6	1.15	78.5	15.85	S, US, 12
1	1800	56C	6	116484.00	✓	5,486	CZ6T17VK32	69	208-230/460	3.0	1.15	81.5	15.85	S, US, 12

Note 12 - TENV

Specifications are subject to change without notice

♥ Note listing on inside back flap



View On-line Technical Information



Brakemotors High Cycle Brakemotors

Applications:

For use in applications that require frequent starting and stopping such as conveyors and unit and baggage handling equipment.

Features:

- All cast iron construction
- Stearns® high cycle brakes
- Manual release lever on brakes
- UL and CSA recognized construction



Three Phase - TENV - C Face Less Base

HP	RPM 60 Hz	NEMA Frame	Brake Rating (ft-lbs)	▼ Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps	Service Factor	% F.L. Eff.	"C" Dim. (Inches)	♥ Notes
1/2	1800	56C	6	117698.00	✓	1,246	C6T17NC332	60	230	1.6	1.00	82.5	15.10	C, US
3/4	1800	56C	6	117699.00	✓	1,438	C6T17NC333	65	230	2.2	1.00	85.5	16.10	C, US
1	1800	56C	6	117700.00	✓	1,619	C6T17NC334	80	230	2.8	1.15	84.0	16.10	C, US
1 1/2	1800	143TC	12	121979.00	✓	1,769	C145T17NC29	90	230	4.4	1.25	84.0	16.16	C, US
2	1800	145TC	12	121980.00	✓	1,934	C145T17NC30	95	230	6.6	1.15	85.5	16.16	C, US

Specifications are subject to change without notice

♥ Note listing on inside back flap

View On-line Technical Information



Explosion Proof
Motors

Automotive
Duty Motors

Pump
Motors

Washguard
Motors

Agricultural
Motors

HVAC / Fan
Motors

Special Voltage
Motors

Definite
Purpose Motors

Brake Motors

Brakemotors

Brakekits



- Kit of components to convert 56 through 256T frame stock TEFC motors to fail-safe brakemotors.
- Kit mounts on fan end of motor. Kits for 56-184T steel frame motors include totally enclosed Stearns AC brake, replacement cast fan cover, shaft extension, fan and hardware. Kits for 213T-256T cast iron frame motors do not include brake, but are designed for Stearns 87,000 series brake.
- Two 1/2" NPT holes with 18" leads are provided for connections. The BRAKEKIT adds 5-1/8" to the overall length of 56 and 143-5T frame, and 5-7/8" to the overall length of 182-184T frame.

Brakekits

Brake Rating (ft-lbs)	Mounts to NEMA Frame	Max. HP @ 1725rpm	Cat. No. 115-208/230 V Brake Coil Voltage	List Price	Cat. No. 208-230/460 V Brake Coil Voltage	List Price	Cat. No. 575 V Brake Coil Voltage	List Price	App. Wt. (lbs.)
3	48/S56	1	—	—	175615.00♣	702	—	—	10
	56/143-5T	1	175762.00◇	702	175765.00◇	702	175768.00◇	702	10
6	56/143-5T	2	175763.00◇	807	175766.00◇	807	175769.00◇	807	10
10	56/143-5T	3	175764.00◇	924	175767.00◇	924	175770.00◇	924	10
15	182-4T	3	—	—	175696.00	1,724	175698.00	1,724	12
25	182-4T	5	—	—	175697.00	1,954	175699.00	1,954	12

56/143-5T frame Brakekits cannot be used on S56 frame motors.

All brake coils are single phase. You can use a 230/460 V coil on a single phase motor by using the 230 volt motor connection and the 230 V brake connection.

♣ For motors having a "P" or "K" for the suffix letter on the date code and having a face mount fan guard.

◇ For 56/145 frame motors having a "B" for the suffix letter for the date code and having a face mount fan guard.

Brake Selection

In this table, brake torque ratings are no less than 140% of the motor full load torque. Match HP & frame size of motor with appropriately rated BRAKEKIT.

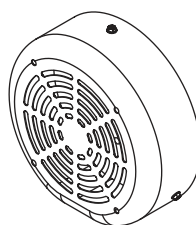
HP	Brakemotor RPM Torque Rating of Brake (Lb-Ft)		
	3450	1725	1140
1/3	3	3	3
1/2	3	3	3
3/4	3	6	6
1	3	6	6
1 1/2	6	10	10
2	6	10	15
3	10	15	25
5	15	25	35
7.5	25	35	50
10	25	50	75
15	35	75	105
20	50	105	—

Brake Adapter Kits

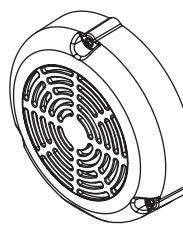
Brake Rating (ft-lbs)	Mounts to NEMA Frame	Max. HP @ 1725rpm	Catalog Number	List Price	App. Wt. (lbs.)
6-105	213-5T	10	175710.60	319	30
6-105	254-6T	20	175711.60	453	40

- Brake Adapter Kits include adapter casting/fan guard, brake fan, adapter shaft and hardware needed to mount a Stearns® 87,000 series brake (sold separately by Stearns®).
- Shaded frame sizes are for use with cast iron motors.
- For use with Wattsaver and "G" Prefix cast iron motors

Old Design



New Design - Face Mount



Brakemotors Washguard® Brakekits™

Kits include a Stearns NEMA 4X brake to convert 56 thru 145T frame stock TEFC only motors to fail-safe brakemotors. Food safe white epoxy finish. BISSC Certified. Adds 5-1/8" to the overall length of 56 thru 145T WASHGUARD® TEFC motors.



For 230/460V Three Phase and 230V Single Phase Motors

Brake Rating (ft-lbs)	Mounts to NEMA Frame	Max. HP @ 1725rpm	Cat. No. 230/460 V Brake Coil Voltage	List Price	App. Wt. (lbs.)
3	56/143-5T	1	175771.00*	1356	24
6	56/143-5T	2	175772.00*	1429	36
10	56/143-5T	3	175773.00*	1506	43

* For 56/145 frame motors having a "B" for the suffix letter for the date code and having a face mount fan guard.

Specifications are subject to change without notice



Coupler Brakes

Double C Face Coupler Brakes

- A new and expanded line of Coupler Brakes designed for applications where mounting the brake between the motor and driven load is the preferred, or most convenient, location. They are an excellent problem solver for applications where a brake needs to be added to existing equipment – without replacing the motor.
- Rugged cast aluminum or cast iron construction Stearns brakes are well suited to most industrial applications. Coupler brakes are designed to be C-face connected on both ends – these brakes are not suited for overhung loads to be applied to the output shaft.
- A wide range of voltages and brake torque ratings in both NEMA 2 and NEMA 4X enclosures are available from stock. NEMA 2 brakes are best suited for use with standard ODP and TEFC motors. NEMA 4X brakes are designed for use with LEESON WASHGUARD® motors.

General Purpose Coupler Brakes

- Mounts directly to the face and shaft of NEMA 56 through 215T-frame C-face motors to create a fail-safe brakemotor.
- The 6 ft.lb. brake mounts to NEMA 56C or 143-5TC motors using an optional adaptor sleeve, which is included with the brake. Output shaft can be either 56C or 143-5TC depending on the location of the provided adaptor sleeve. A 1/2 NPT threaded lead exit hole is provided for power connections.



Explosion Proof Motors

Automotive Duty Motors

Pump Motors

Washguard Motors

Agricultural Motors

HVAC / Fan Motors

Special Voltage Motors

Definite Purpose Motors

Brake Motors

Brakemotors

General Purpose Coupler Brakes

Stearns®



General Purpose (NEMA 2) Coupler Brakes

For Both Single and Three Phase Motors

Brake Rating (ft-lbs)	Max. HP @ 1725 rpm	Motor Voltage 115/208-230V	Motor Voltage 208-230/460V	Motor Voltage 575V	List Price	Mounts to NEMA Frame	Coupler Brake Output Shaft and Face	Add to Motor "C" Dim.	App. Wt. (lbs.)
3	1	175563.00	175564.00	175565.00	693	56C	5/8", 56C	4.91	13
6	2	175569.00	175570.00	175571.00	795	56C/143-5TC	5/8" or 7/8", 56C	4.91	14
10	3	175575.00	175576.00	175577.00	833	143-5TC	7/8", 143-5TC	4.91	15
15	3	—	175581.00	—	951	143-5TC	7/8", 143-5TC	4.91	16
15	3	—	175583.00	—	3,384	182-4TC	1 1/8", 182-4TC	8.38	58
25	5	—	175585.00	—	3,538	182-4TC	1 1/8", 182-4TC	8.38	58
35	7 1/2	—	175587.00	—	3,883	213-5TC	1 3/8", 213-5TC	8.88	60
50	10	—	175589.00	—	4,298	213-5TC	1 3/8", 213-5TC	8.88	62

Specifications are subject to change without notice

Washguard® Coupler Brakes
Solid die-cast Aluminum Stearns NEMA 4X coupler brake converts any TEFC or TENV 56C thru 215TC motor to a fail-safe brakemotor by mounting between the C-face motor and driven equipment. Food safe white epoxy finish. BISSC Certified. Adds 5" to the overall length of 56C thru 145TC WASHGUARD® TEFC or TENV motors. Includes all mounting components.



Washguard® (NEMA 4X) Coupler Brakes

For Both Single and Three Phase Motors

Brake Rating (ft-lbs)	Max. HP @ 1725 rpm	Motor Voltage 115/208-230V	Motor Voltage 208-230/460V	Motor Voltage 575V	List Price	Mounts to NEMA Frame	Coupler Brake Output Shaft and Face	Add to Motor "C" Dim.	App. Wt. (lbs.)
3	1	175566.00	175567.00	175568.00	1,220	56C	5/8", 56C	4.94	13
6	2	175572.00	175573.00	175574.00	1,313	56C/143-5TC	5/8" or 7/8", 56C	4.94	14
10	3	175578.00	175579.00	175580.00	1,389	143-5TC	7/8", 143-5TC	4.94	15
15	3	—	175582.00	—	1,616	143-5TC	7/8", 143-5TC	4.94	16
15	3	—	175584.00	—	4,374	182-4TC	1 1/8", 182-4TC	8.38	58
25	5	—	175586.00	—	4,459	182-4TC	1 1/8", 182-4TC	8.38	58
35	7 1/2	—	175588.00	—	4,625	213-5TC	1 3/8", 213-5TC	8.88	60
50	10	—	175590.00	—	5,165	213-5TC	1 3/8", 213-5TC	8.88	62

Specifications are subject to change without notice



IEC Motors

LEESON Passport Series

Stock standard solutions ready to deliver from locations across the country.



Mount: IM B3/B5



Mount: IM B3



Mount: IM B3/450 Frame (custom)



IEC Motors

	Aluminum Frame AC	Cast Iron Frame AC	Permanent Magnet DC	Commercial Duty DC	Stainless
Enclosure Type	TEFC	TEFC	TENV – TEFC	TENV	TENV – TEFC
Range	0.18 kW–2.2 kW	1.5 kW–37 kW	0.06 kW–2.2 kW	0.050–0.125 kW	0.25–1.5 kW
Voltage	230/460 & 575	230/460 & 575	24 & 180 Volts DC	12, 24 & 90 Volts DC	230/460 Volts
Speed	2, 4 & 6-Pole	2, 4 & 6-Pole	3000 & 1800 RPM	3000	1800 RPM
Frequency	60 Hz (50 Hz derated to next lowest HP)	60 Hz (50 Hz derated to next lowest HP)	DC	DC	60 Hz (50 Hz derated to next lowest HP)
IEC Frame	63–90	100–250	56, 63, 80, 90, 112	56	71–90
Mounting Flanges	B3, B5 and B14	B3, B5 and B14	B3, B5 & B14	B14	B5 & B14
Ambient	40°C	40°C	40°C	40°C	40°C
Insulation	Class F Class B Rise	Class F Class B Rise	Class F	Class F	Class F Class B Rise
NEMA Design B Breakdown Torque	175–300%	175–300%	N/A	N/A	NEMA Design B Breakdown Torque 175–300%
IEC Design N Breakdown Torque	160–200%	160–200%	N/A	N/A	IEC Design N Breakdown Torque 160–200%
NEMA Design B Lock Rotor Torque	70–275%	70–275%	N/A	N/A	NEMA Design B Lock Rotor Torque 70–275%
IEC Design N Lock Rotor Torque	75–275%	75–275%	N/A	N/A	IEC Design N Lock Rotor Torque 75–275%
Service Factor	1.15	1.15	1.0	1.0	1.15
Inverter Duty	10:1	10:1	SCR 10:1	SCR 10:1	6:1
Warranty	3 Years—Premium Efficient Models	3 Years	1 Year	1 Year	3 Years
Accessories	B5 & B14 Flange Kits	B5 & B14 Flange Kits	B5 & B14 Flange Kits	N/A	N/A
Shaft Seals	Yes	Yes	Yes	Yes	Yes
Terminals Boards	Yes	Yes	N/A	N/A	N/A
IP Construction	IP55	IP55	IP54	IP44	IP56 (Encapsulated designs available)
Efficiency	IE2, IE3 (90 Frame) EPACT and NEMA Premium	IE3—NEMA Premium	Varies by HP	Varies by HP	Standard and EPACT
Removable Base	Yes	No	Yes	No Base	No



IEC Motors

DC Motors

Gearmotors

Ac / DC Controls

Accessories / Kits

Motors / Factory Options

X-Ref / Index

Tech Information

Terms / Warnings

IEC Motors

AC Metric – Three Phase – 230/460 Volt – 575 Volt



These motors meet North American performance standards and Premium energy efficiency mandates, and have 1.15 service factors.

Typically used for replacement on machine tools, textile tools, textile machinery and other equipment with metric dimensions but requiring the high torque and performance of motors designed for use in North America.

Features:

- Aluminum frame and cast iron frame construction
- DC and stainless steel IEC motors available
- 60/50 Hz interchangeability
- B3, B5, B14 mounting flanges
- Flange kits available
- Inverter rated (IRIS™) insulation system on AC models
- 3-year warranty on premium efficiency models
- 1-year warranty on DC and AC standard efficiency models
- UL listed and CSA certified





AC Metric (IEC) Motors – Three Phase

LEESON's Inverter Rated Insulation System, (IRIS™) provides superior protection against voltage spikes induced by variable frequency drives.



ALUMINUM FRAME

CSA: File number LR33543
UL: File number E57948 for motors produced January 2004 and later

IP55 weatherproof enclosure allows for use in a wide range of applications.

Drain Hole locations in four quadrants can be drilled-out for multi-position condensate drainage.

D flange (B5) and C face (B14) models available. Field conversion kits also offered.

"Captive Shaft" keyway.

Drilled and tapped shaft.

Oil seals on both the drive end and non drive end.

High efficiency design utilizes low-loss steel laminations for optimum power and performance.

Terminal Boards included.
• 230/460V motors have 9 leads.
• 575V motors have 3 leads.
• All terminal boards have 6 posts.

Conduit box with neoprene gaskets. Reposition metric "PG" tapped lead exit hole by rotating box in 90 degree increments. Move box to F1 or F2 position by relocating motor feet.

Special design steel fan cover and low-noise fan maximize airflow efficiency.

External grounding provision.

Multi-mount repositionable feet allow for three conduit box positions (F2, F1, F3).

Aluminum "full fact" nameplate with information on motor efficiency and power factor. Stamped with 60 Hz and 50 Hz data.

Class F insulation system with Class B temperature rise or lower.

Removable feet.

CAST IRON FRAME

CSA: File number LR62104
UL: File number E57948 for motors produced June 2003 and later

Terminal Boards included.
• 230/460V motors, 132-frame and larger have 12 leads and 9 post terminal boards.
• 230/460V motors, smaller than 132-frame have 9 leads and 6 post terminal boards.
• 575V motors have 3 leads and 6 post terminal boards.

IP55 weatherproof enclosure allows for use in a wide range of applications.

D flange (B5) and C face (B14) models available. Field conversion kits also offered.

Drilled and tapped shaft.

Oil seals on both the drive end and non drive end.

Cast iron mounting feet are precision machined for accurate alignment.

Conduit box with neoprene gaskets. Reposition metric "PG" threaded lead exit by rotating box in 90 degree increments. Motors 132 frame and larger have second lead exit hole for auxiliary box. Box is fixed at F3 location.

Heavy-duty cast iron construction includes frame, endbells and conduit box.

High efficiency design utilizes low-loss steel laminations for optimum power and performance.

Non-sparking fan. Small size reduces noise and enhances efficiency.

Steel fan cover.

Stainless steel "full fact" nameplate with information on motor efficiency and power factor. Stamped with 60 Hz and 50 Hz data.

Class F insulation system with Class B temperature rise or lower.



IEC Metric Motors

AC Metric (IEC) Motors - B3 Flange - Three Phase - Rigid Base

Three Phase - TEFC - B3 Flange - Rigid Base - IP55



HP/ kW	SYN RPM 60 Hz	IEC Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F. L. Eff.	Service Factor	"C" Dim. (Inches)	♥ Notes
1/4-0.18	3600	D63	192010.00	✓	266	C63T34FZ1	10	230/460	0.8	72.0	1.15	8.55	A, CN
	1800	D63	192011.00	✓	277	C63T17FZ1	11	230/460	1.1	68.0	1.15	8.55	A, CN
	1200	D71	192012.00	✓	472	C71T11FZ1	12	230/460	1.2	64.0	1.15	9.16	A, CN
1/3-0.25	3600	D63	192020.00	✓	306	C63T34FZ2	11	230/460	1.1	72.0	1.15	8.55	A, CN
	1800	D71	192021.00	✓	323	C71T17FZ1	13	230/460	1.4	68.0	1.15	9.46	A, CN
	1200	D80	192022.00	✓	504	C80T11FZ1	17	230/460	1.3	70.0	1.15	11.11	A, CN
1/2-0.37	3600	D71	192030.00	✓	332	C71T34FZ1	13	230/460	1.6	74.0	1.15	9.46	A, CN
	1800	D71	192031.00	✓	337	C71T17FZ2	14	230/460	1.8	74.0	1.15	9.46	A, CN
	1200	D80	192032.00	✓	528	C80T11FZ2	19	230/460	1.9	72.0	1.15	11.11	A, CN
3/4-0.55	3600	D71	192040.00	✓	347	C71T34FZ2	15	230/460	2.4	74.0	1.15	9.46	A, CN
	1800	D80	192041.00	✓	366	C80T17FZ1	18	230/460	2.5	74.0	1.15	11.11	A, CN
	1200	D80	192042.00	✓	565	C80T11FZ3	22	230/460	2.7	72.0	1.15	11.11	A, CN
1-0.75	3600	D80	192050.00	✓	392	C80T34FZ1	21	230/460	2.8	75.5	1.15	11.11	A, CN
	1800	D80	192051.00	✓	401	C80T17FZ2	26	230/460	3.2	80.0	1.15	11.11	A, CN
	1200	D90S	192200.00	✓	678	C90T11FZ13	33	230/460	3.2	82.5	1.15	12.83	A, CN
1 1/2-1.1	3600	D80	192060.00	✓	435	C80T34FZ2	27	230/460	4.0	84.0	1.15	11.11	A, CN
	1800	D90S	192202.00	✓	512	C90T17FZ13	37	230/460	4.2	88.5	1.15	12.83	A, CN
	1200	D90S	192208.00	✓	534	C90T34FZ13	33	230/460	5.0	85.5	1.15	16.34	A, CN
2-1.5	3600	D90L	192205.00	✓	552	C90T17FZ16	38	230/460	5.4	87.5	1.15	16.34	A, CN
	1800	DF100L	193300.60	✓	920	C100T11FZ20	82	230/460	6.0	88.5	1.15	16.34	C, CN
	1200	DF100L	193301.60	✓	892	C100T17FZ41	84	230/460	8.0	90.2	1.15	16.34	C, CN
3-2.2	3600	D90L	192209.00	✓	769	C90T34FZ14	39	230/460	7.2	86.5	1.15	13.43	A, CN
	1800	DF112M	193302.60	✓	1,293	C112T11FZ21	100	230/460	9.6	89.5	1.15	18.43	C, CN
	1200	DF112M	193303.60	✓	951	C100T34FZ20	71	230/460	9.2	88.5	1.15	18.43	C, CN
4-3	3600	DF100L	193304.60	✓	968	C100T17FZ42	84	230/460	10.0	89.5	1.15	16.34	C, CN
	1800	DF112M	193305.60	✓	1,568	C132T11FZ58	154	230/460	12.6	89.5	1.15	18.27	C, CN
	1200	DF112M	193306.60	✓	1,222	C112T34FZ24	104	230/460	12.6	89.5	1.15	16.14	C, CN
5 1/2-4	3600	DF112M	193307.60	✓	1,177	C112T17FZ21	104	230/460	14.0	89.5	1.15	16.14	C, CN
	1800	DF132M	193308.60	✓	1,812	C132T11FZ59	176	230/460	17.0	89.5	1.15	19.76	C, CN
	1200	DF132S	193309.60	✓	1,532	C132T34FZ45	152	230/460	18.0	89.5	1.15	18.27	C, CN
7 1/2-5.5	3600	DF132S	193310.60	✓	1,532	C132T17FZ43	150	230/460	18.4	92.4	1.15	18.27	C, CN
	1800	DF132M	193311.60	✓	2,178	C132T11FZ60	180	230/460	21.6	91.0	1.15	19.76	C, CN
	1200	DF132S	193312.60	✓	1,639	C132T34FZ46	163	230/460	24.0	90.2	1.15	18.27	C, CN
10-7.5	3600	DF132M	193313.60	✓	1,817	C132T17FZ44	174	230/460	24.0	91.7	1.15	19.76	C, CN
	1800	DF160M	193314.60	✓	2,825	C160T11FZ39	251	230/460	28.8	92.1	1.15	23.62	C, CN
	1200	DF160M	193315.60	✓	2,655	C160T34FZ59	260	230/460	35.0	91.0	1.15	23.62	C, CN
15-11	3600	DF160M	193316.60	✓	2,655	C160T17FZ43	264	230/460	36.0	92.4	1.15	23.62	C, CN
	1800	DF160L	193317.60	✓	3,627	C160T11FZ40	330	230/460	40.0	91.7	1.15	26.57	C, CN
	1200	DF160M	193318.60	✓	3,114	C160T34FZ60	269	230/460	47.0	91.0	1.15	23.62	C, CN
20-15	3600	DF160L	193319.60	✓	3,283	C160T17FZ44	311	230/460	50.0	93.0	1.15	25.39	C, CN
	1800	DF180L	193320.60	✓	5,085	C180T11FZ20	385	230/460	53.5	92.4	1.15	28.27	C, CN
	1200	DF160L	193321.60	✓	3,791	C160T34FZ61	319	230/460	58.0	91.7	1.15	25.39	C, CN
25-18.5	3600	DF180M	193322.60	✓	4,172	C180T17FZ41	381	230/460	58.5	93.6	1.15	26.77	C, CN
	1800	DF200L	193323.60	✓	6,378	C200T11FZ39	517	230/460	66.0	93.5	1.15	29.53	C, CN
	1200	DF200L	193324.60	✓	4,505	C180T34FZ19	355	230/460	69.0	91.7	1.15	26.77	C, CN
30-22	3600	DF180L	193325.60	✓	4,690	C180T17FZ42	427	230/460	70.0	94.1	1.15	28.27	C, CN
	1800	DF200L	193326.60	✓	7,225	C200T11FZ40	467	230/460	77.0	93.8	1.15	29.53	C, CN
	1200	DF200L	193327.60	✓	6,413	C200T34FZ37	522	230/460	91.0	92.4	1.15	29.53	C, CN
40-30	3600	DF200L	193328.60	✓	6,905	C200T17FZ21	531	230/460	95.0	94.1	1.15	29.53	C, CN
	1800	DF225M	193329.60	✓	10,852	C225T11FZ21	633	230/460	95.0	94.1	1.15	32.95	C, CN
	1200	DF200L	193330.60	✓	8,411	C200T34FZ38	546	230/460	112.0	94.1	1.15	29.53	C, CN
50-37	3600	DF225S	193331.60	✓	9,577	C225T17FZ21	632	230/460	118.0	94.5	1.15	31.97	C, CN
	1800	DF250M	193332.60	✓	15,213	C250T11FZ19	1089	230/460	120.0	94.1	1.15	36.42	C, CN

Green items are Premium Efficient

♥ Note listing on inside back flap

Specifications are subject to change without notice



View On-line Technical Information





AC Metric (IEC) Motors - B3 / B5 Flange - Three Phase - Rigid Base

Three Phase - TEFC - B3 / B5 Flange - Rigid Base - IP55

HP/ kW	SYN RPM 60 Hz	IEC Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F. L. Eff.	Service Factor	"C" Dim. (Inches)	♥ Notes
1/4-0.18	3600	D63D	192014.00	✓	306	C63T34FZ5	10	230/460	0.8	72.0	1.15	8.54	A, CN
	1800	D63D	192015.00	✓	316	C63T17FZ3	11	230/460	1.0	68.0	1.15	8.54	A, CN
	1200	D71D	192016.00	✓	540	C71T11FZ3	12	230/460	1.2	64.0	1.15	9.45	A, CN
1/3-0.25	3600	D63D	192024.00	✓	352	C63T34FZ6	11	230/460	1.1	72.0	1.15	8.54	A, CN
	1800	D71D	192025.00	✓	364	C71T17FZ5	13	230/460	1.4	68.0	1.15	9.45	A, CN
	1200	D80D	192026.00	✓	583	C80T11FZ7	17	230/460	1.3	70.0	1.15	11.10	A, CN
1/2-0.37	3600	D71D	192034.00	✓	363	C71T34FZ5	13	230/460	1.6	74.0	1.15	9.45	A, CN
	1800	D71D	192035.00	✓	375	C71T17FZ6	14	230/460	1.8	74.0	1.15	9.45	A, CN
	1200	D80D	192036.00	✓	603	C80T11FZ8	19	230/460	1.9	72.0	1.15	11.10	A, CN
3/4-0.55	3600	D71D	192044.00	✓	383	C71T34FZ6	15	230/460	2.4	74.0	1.15	9.45	A, CN
	1800	D80D	192045.00	✓	407	C80T17FZ5	18	230/460	2.5	74.0	1.15	11.10	A, CN
	1200	D80D	192046.00	✓	641	C80T11FZ9	22	230/460	2.7	72.0	1.15	11.10	A, CN
1-0.75	3600	D80D	192054.00	✓	422	C80T34FZ5	21	230/460	2.8	75.5	1.15	11.10	A, CN
	1800	D80D	192055.00	✓	442	C80T17FZ6	26	230/460	3.2	80.0	1.15	11.10	A, CN
	1200	D90SD	192201.00	✓	776	C90T11FZ14	35	230/460	3.2	82.5	1.15	12.83	A, CN
1 1/2-1.1	3600	D80D	192064.00	✓	479	C80T34FZ6	30	230/460	4.2	84.0	1.15	12.83	A, CN
	1800	D90SD	192203.00	✓	562	C90T17FZ14	37	230/460	5.0	88.5	1.15	12.83	A, CN
2-1.5	3600	D90SD	192210.00	✓	613	C90T34FZ15	33	230/460	5.0	85.5	1.15	12.83	A, CN
	1800	D90LD	192206.00	✓	630	C90T17FZ17	38	230/460	5.4	87.5	1.15	12.83	A, CN
3-2.2	1200	DF100LD	193333.60	✓	1,057	C100T11FZ21	82	230/460	6.0	88.5	1.15	16.34	C, CN
	3600	D90LD	192211.00	✓	867	C90T34FZ16	39	230/460	7.2	87.5	1.15	12.83	A, CN
	1800	DF100LD	193334.60	✓	1,025	C100T17FZ43	84	230/460	8.0	89.5	1.15	16.34	C, CN
4-3	1200	DF112MD	193335.60	✓	1,447	C112T11FZ22	100	230/460	9.6	89.5	1.15	16.14	C, CN
	3600	DF100LD	193336.60	✓	1,087	C100T34FZ21	71	230/460	9.2	88.5	1.15	16.34	C, CN
	1800	DF100LD	193337.60	✓	1,103	C100T17FZ44	84	230/460	10.0	89.5	1.15	16.34	C, CN
5 1/2-4	1200	DF132SD	193338.60	✓	1,769	C132T11FZ61	154	230/460	12.4	89.5	1.15	18.27	C, CN
	3600	DF112MD	193339.60	✓	1,368	C112T34FZ25	104	230/460	12.6	88.5	1.15	16.14	C, CN
	1800	DF112MD	193340.60	✓	1,325	C112T17FZ22	104	230/460	14.0	89.5	1.15	16.14	C, CN
7 1/2-5.5	1200	DF132MD	193341.60	✓	2,016	C132T11FZ62	176	230/460	17.0	89.5	1.15	19.76	C, CN
	3600	DF132SD	193342.60	✓	1,728	C132T34FZ47	152	230/460	18.0	89.5	1.15	18.27	C, CN
	1800	DF132SD	193343.60	✓	1,728	C132T17FZ45	150	230/460	18.4	91.7	1.15	18.27	C, CN
10-7.5	1200	DF132MD	193344.60	✓	2,384	C132T11FZ63	180	230/460	21.6	91.0	1.15	19.76	C, CN
	3600	DF132SD	193345.60	✓	1,845	C132T34FZ48	163	230/460	24.0	90.2	1.15	19.76	C, CN
	1800	DF132MD	193346.60	✓	2,022	C132T17FZ46	174	230/460	24.0	91.7	1.15	19.76	C, CN
15-11	1200	DF160MD	193347.60	✓	3,211	C160T11FZ41	251	230/460	28.8	91.0	1.15	23.62	C, CN
	3600	DF160MD	193348.60	✓	3,043	C160T34FZ62	260	230/460	35.0	91.0	1.15	23.62	C, CN
	1800	DF160MD	193349.60	✓	3,043	C160T17FZ45	264	230/460	37.0	92.4	1.15	23.62	C, CN
20-15	1200	DF160LD	193350.60	✓	4,014	C160T11FZ42	330	230/460	40.0	91.7	1.15	26.57	C, CN
	3600	DF160MD	193351.60	✓	3,281	C160T34FZ63	269	230/460	47.0	91.0	1.15	23.62	C, CN
	1800	DF160LD	193352.60	✓	3,461	C160L17FZ46	311	230/460	50.0	93.0	1.15	25.39	C, CN
25-18.5	1200	DF180LD	193353.60	✓	5,264	C180T11FZ21	385	230/460	53.5	91.7	1.15	28.27	C, CN
	3600	DF160LD	193354.60	✓	3,945	C160T34FZ64	319	230/460	58.0	91.7	1.15	25.39	C, CN
30-22	1800	DF180MD	193355.60	✓	4,405	C180T17FZ43	381	230/460	58.5	93.6	1.15	26.77	C, CN
	3600	DF180MD	193356.60	✓	4,717	C180T34FZ20	355	230/460	69.0	93.0	1.15	26.77	C, CN
	1800	DF180LD	193357.60	✓	4,893	C180T17FZ44	427	230/460	70.0	94.1	1.15	28.27	C, CN

Green items are Premium Efficient

♥ Note listing on inside back flap

Note: Aluminum motors have removable feet for round-body applications.

Larger HP B3 Foot-Mounted metric motors on page 282 can be converted to B3/B5 Flange-Mount by installing B5 Flange Kits.

Specifications are subject to change without notice

View On-line Technical Information



IEC Metric Motors

AC Metric (IEC) Motors - B3 / B14 Flange - Three Phase - Rigid Base



Three Phase - TEFC - B3 / B14 Flange - Rigid Base - IP55

HP/ kW	SYN RPM 60 Hz	IEC Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F. L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
1/4-0.18	3600	D63C	192017.00	✓	299	C63T34FZ3	10	230/460	0.8	72.0	1.15	8.55	A, CN
	1800	D63C	192018.00	✓	311	C63T17FZ2	11	230/460	1.0	68.0	1.15	8.55	A, CN
	1200	D71C	192019.00	✓	540	C71T11FZ2	12	230/460	1.2	64.0	1.15	9.46	A, CN
1/3-0.25	3600	D63C	192027.00	✓	350	C63T34FZ4	11	230/460	1.1	72.0	1.15	8.55	A, CN
	1800	D71C	192028.00	✓	353	C71T17FZ3	13	230/460	1.4	68.0	1.15	9.46	A, CN
	1200	D80C	192029.00	✓	583	C80T11FZ4	17	230/460	1.3	70.0	1.15	11.11	A, CN
1/2-0.37	3600	D71C	192037.00	✓	354	C71T34FZ3	13	230/460	1.6	74.0	1.15	9.46	A, CN
	1800	D71C	192038.00	✓	369	C71T17FZ4	14	230/460	1.8	74.0	1.15	9.46	A, CN
	1200	D80C	192039.00	✓	603	C80T11FZ5	19	230/460	1.9	72.0	1.15	11.11	A, CN
3/4-0.55	3600	D71C	192047.00	✓	375	C71T34FZ4	15	230/460	2.4	74.0	1.15	9.46	A, CN
	1800	D80C	192048.00	✓	402	C80T17FZ3	18	230/460	2.5	74.0	1.15	11.11	A, CN
	1200	D80C	192049.00	✓	641	C80T11FZ6	22	230/460	2.7	72.0	1.15	11.11	A, CN
1-0.75	3600	D80C	192057.00	✓	411	C80T34FZ3	21	230/460	2.8	75.5	1.15	11.11	A, CN
	1800	D80C	192058.00	✓	431	C80T17FZ4	26	230/460	3.2	80.0	1.15	11.11	A, CN
	1200	D90SC	192212.00	✓	776	C80T11FZ15	35	230/460	3.2	82.5	1.15	12.83	A, CN
1 1/2-1.1	3600	D80C	192067.00	✓	469	C80T34FZ4	27	230/460	4.0	84.0	1.15	11.11	A, CN
	1800	D90SC	192204.00	✓	551	C90T17FZ15	37	230/460	4.2	86.5	1.15	12.61	A, CN
2-1.5	3600	D90SC	192213.00	✓	599	C90T34FZ17	33	230/460	5.0	85.5	1.15	12.61	A, CN
	1800	D90LC	192207.00	✓	613	C90T17FZ18	38	230/460	5.4	87.5	1.15	12.61	A, CN
	1200	DF100LC	193358.60	✓	1,057	C100T11FZ22	82	230/460	6.0	88.5	1.15	14.97	C, CN
3-2.2	3600	D90LC	192214.00	✓	867	C90T34FZ18	39	230/460	7.2	87.5	1.15	12.61	A, CN
	1800	DF100LC	193359.60	✓	1,025	C100T17FZ45	84	230/460	8.0	90.2	1.15	14.97	C, CN
	1200	DF112MC	193360.60	✓	1,447	C112T11FZ23	84	230/460	9.6	89.5	1.15	15.76	C, CN
4-3	3600	DF100LC	193361.60	✓	1,087	C100T34FZ22	71	230/460	9.2	88.5	1.15	14.97	C, CN
	1800	DF100LC	193362.60	✓	1,103	C100T17FZ46	84	230/460	10.0	89.5	1.15	14.97	C, CN
	1200	DF132SC	193363.60	✓	1,769	C132T11FZ64	154	230/460	12.4	89.5	1.15	18.72	C, CN
5 1/2-4	3600	DF112MC	193364.60	✓	1,368	C112T34FZ26	104	230/460	12.6	88.5	1.15	15.76	C, CN
	1800	DF112MC	193365.60	✓	1,325	C112T17FZ23	104	230/460	14.0	89.5	1.15	15.76	C, CN
	1200	DF132MC	193366.60	✓	2,016	C132T11FZ65	176	230/460	17.0	89.5	1.15	20.29	C, CN
7 1/2-5.5	3600	DF132SC	193367.60	✓	1,728	C132T34FZ49	152	230/460	18.0	89.5	1.15	18.72	C, CN
	1800	DF132SC	193368.60	✓	1,728	C132T17FZ47	150	230/460	18.4	91.7	1.15	18.72	C, CN
	1200	DF132MC	193369.60	✓	2,384	C132T11FZ66	180	230/460	21.6	91.0	1.15	20.29	C, CN
10-7.5	3600	DF132SC	193370.60	✓	1,845	C132T34FZ50	163	230/460	24.0	90.2	1.15	18.72	C, CN
	1800	DF132MC	193371.60	✓	2,022	C132T17FZ48	174	230/460	24.0	91.7	1.15	20.29	C, CN
	1200	DF160MC	193372.60	✓	3,211	C160T11FZ43	251	230/460	28.8	92.1	1.15	23.64	C, CN
15-11	3600	DF160MC	193373.60	✓	3,043	C160T34FZ65	260	230/460	35.0	91.0	1.15	23.64	C, CN
	1800	DF160MC	193374.60	✓	3,043	C160T17FZ47	264	230/460	37.0	92.4	1.15	23.64	C, CN
	1200	DF160LC	193375.60	✓	4,014	C160T11FZ44	330	230/460	40.0	91.7	1.15	25.41	C, CN
20-15	3600	DF160MC	193376.60	✓	3,478	C160T34FZ66	269	230/460	47.0	91.0	1.15	23.64	C, CN
	1800	DF160LC	193377.60	✓	3,669	C160T17FZ48	311	230/460	50.0	93.0	1.15	25.41	C, CN
25-18.5	3600	DF160LC	193378.60	✓	4,181	C160T34FZ67	319	230/460	58.0	91.7	1.15	25.41	C, CN

Green items are Premium Efficient

♥ Note listing on inside back flap

Note: Aluminum motors have removable feet for round-body applications.

Larger HP B3 Foot-Mounted metric motors on page 282 can be converted to B3/B5 Flange-Mount by installing B5 Flange Kits.

Specifications are subject to change without notice



View On-line Technical Information





Three Phase - TEFC - B3 Flange - Rigid Base - IP55

HP/ kW	SYN RPM 60 Hz	IEC Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F. L. Eff.	Service Factor	"C" Dim. (Inches)	♥ Notes
1/4-0.18	3600	D63	192088.00	✓	266	C63T34FZ7	10	575	0.3	72.0	1.15	8.54	A, CN
	1800	D63	192089.00	✓	277	C63T17FZ4	11	575	0.4	68.0	1.15	8.54	A, CN
1/3-0.25	3600	D63	192097.00	✓	311	C63T34FZ10	11	575	0.4	74.0	1.15	8.54	A, CN
	1800	D71	192098.00	✓	323	C71T17FZ7	13	575	0.6	67.0	1.15	9.45	A, CN
1/2-0.37	3600	D71	192106.00	✓	332	C71T34FZ7	13	575	0.7	74.0	1.15	9.45	A, CN
	1800	D71	192107.00	✓	337	C71T17FZ10	14	575	0.7	74.0	1.15	9.45	A, CN
3/4-0.56	3600	D71	192115.00	✓	347	C71T34FZ10	15	575	0.9	74.0	1.15	9.45	A, CN
	1800	D80	192116.00	✓	366	C80T17FZ7	18	575	1.0	73.0	1.15	11.10	A, CN
1-0.75	3600	D80	192124.00	✓	392	C80T34FZ7	21	575	1.1	75.5	1.15	11.10	A, CN
	1800	D80	192125.00	✓	401	C80T17FZ10	26	575	1.4	82.5	1.15	11.10	A, CN
1 1/2-1.1	3600	D80	192133.00	✓	435	C80T34FZ10	27	575	1.6	82.5	1.15	11.10	A, CN
	1800	D90S	192230.00	✓	445	C90T17FZ19	37	575	1.8	86.5	1.15	12.83	A, CN
2-1.5	3600	D90S	192231.00	✓	464	C90T34FZ19	33	575	2.2	86.5	1.15	12.83	A, CN
	1800	D90L	192232.00	✓	479	C90T17FZ20	38	575	2.3	85.5	1.15	12.83	A, CN
3-2.2	3600	D90L	192233.00	✓	667	C90T34FZ20	39	575	3.0	86.5	1.15	13.43	A, CN
	1800	DF100L	193379.60	✓	892	C100T17FZ47	84	575	3.2	89.5	1.15	16.34	C, CN
4-3	3600	DF100L	193380.60	✓	951	C100T34FZ23	71	575	3.1	88.5	1.15	16.34	C, CN
	1800	DF100L	193381.60	✓	968	C100T17FZ48	84	575	4.0	89.5	1.15	16.34	C, CN
5 1/2-4	3600	DF112M	193382.60	✓	1,222	C112T34FZ27	104	575	5.1	88.5	1.15	16.14	C, CN
	1800	DF112M	193383.60	✓	1,177	C112T17FZ24	104	575	5.6	89.5	1.15	16.14	C, CN
7 1/2-5.5	3600	DF132S	193384.60	✓	1,532	C132T34FZ51	152	575	7.0	89.5	1.15	18.27	C, CN
	1800	DF132S	193385.60	✓	1,532	C132T17FZ49	150	575	7.9	91.7	1.15	18.27	C, CN
10-7.5	3600	DF132S	193386.60	✓	1,639	C132T34FZ52	163	575	9.6	90.2	1.15	18.27	C, CN
	1800	DF132M	193387.60	✓	1,817	C132T17FZ50	174	575	9.6	91.7	1.15	19.76	C, CN
15-11	3600	DF160M	193388.60	✓	2,655	C160T34FZ68	260	575	14.0	91.0	1.15	23.62	C, CN
	1800	DF160M	193389.60	✓	2,655	C160T17FZ49	264	575	14.5	92.4	1.15	23.62	C, CN
20-15	3600	DF160M	193390.60	✓	3,114	C160T34FZ69	269	575	18.4	91.0	1.15	23.62	C, CN
	1800	DF160L	193391.60	✓	3,283	C160T17FZ50	311	575	20.0	93.0	1.15	25.39	C, CN
25-18.5	3600	DF160L	193392.60	✓	3,791	C160T34FZ70	319	575	23.2	91.7	1.15	25.39	C, CN
	1800	DF180M	193393.60	✓	4,172	C180T17FZ45	381	575	23.0	93.6	1.15	26.77	C, CN
30-22	3600	DF180M	193394.60	✓	4,505	C180T34FZ21	355	575	27.4	91.7	1.15	26.77	C, CN
	1800	DF180L	193395.60	✓	4,690	C180T17FZ46	427	575	28.0	93.6	1.15	28.27	C, CN
40-30	3600	DF200L	193396.60	✓	6,413	C200T34FZ39	522	575	28.4	92.4	1.15	29.53	C, CN
	1800	DF200L	193397.60	✓	6,905	C200T17FZ22	531	575	38.0	94.7	1.15	29.53	C, CN
50-37	3600	DF200L	193398.60	✓	8,411	C200T34FZ40	546	575	45.0	93.0	1.15	29.53	C, CN
	1800	DF225S	193399.60	✓	9,577	C225T17FZ22	632	575	47.5	94.5	1.15	31.97	C, CN

Green items are Premium Efficient

♥ Note listing on inside back flap

Specifications are subject to change without notice

View On-line Technical Information



IEC Metric Motors

Metric Motor Kits - B5 & B14 Flanges

Specifications:

- Includes parts to convert B3 rigid motors to either a B5 or B14 flange.



B3 / B14 Flange - TEFC ICE Motors - IP55

IEC Frame	RPM	B5 Flange Kit	List Price	B14 Flange Kit	List Price
63	3600	175850.00	72	175851.00	64
63	1800	175850.00	72	175851.00	64
63	1200	175850.00	72	175851.00	64
71	3600	175852.00	85	175853.00	69
71	1800	175852.00	85	175853.00	69
71	1200	175852.00	85	175853.00	69
80	3600	175854.00	94	175855.00	79
80	1800	175854.00	94	175855.00	79
80	1200	175854.00	94	175855.00	79
90	3600	175856.00	97	175857.00	87
90	1800	175856.00	97	175857.00	87
90	1200	175856.00	97	175857.00	87
100	3600	175810.60	138	175817.60	122
100	1800	175810.60	138	175817.60	122
100	1200	175810.60	138	175817.60	122
112	3600	175811.60	147	175818.60	133
112	3600	175827.60Δ	147	175832.60Δ	133
112	1800	175811.60	147	175818.60	133
112	1800	175827.60Δ	147	175832.60Δ	133
112	1200	175810.60	138	175817.60	122
132	3600	175812.60	196	175819.60	179
132	3600	175828.60Δ	196	175833.60Δ	179
132	1800	175812.60	196	175819.60	179
132	1200	175812.60	196	175819.60	179
160	3600	175990.60	345	175991.60	343
160	3600	175829.60Δ	369	175834.60Δ	343
160	1800	175990.60	345	175991.60	343
160	1200	175990.60	345	175991.60	343
180	3600	175890.60	429		
180	3600	175830.60Δ	429		
180	1800	175890.60	429		
180	1200	175890.60	429		
200	3600	175994.60	597		
200	3600	175831.60Δ	597		
200	1800	175994.60	597		
200	1200	175994.60	597		
225	3600	175995.60	764		
225	1800	175995.60	764		
225	1200	175995.60	764		
250	1200	175619.60	764		



Δ For IEC motors built after June 2011

Includes parts to convert a B3 rigid mount motor to either a B5 or B14 Flange

Specifications are subject to change without notice

IEC Metric Motors

Reduced Diameter Metric Flanges

Specifications:

Used to convert a Metric motor to have a reduced B14 flange mount. Example, you can change an 80 frame IEC motor to have a 71 frame B14 flange. Comes complete with necessary hardware and oil seals for easy field mounting



IEC Motor Frame	B14 Flange Frame	Catalog Number	List Price
63	56	175900.00	62
71	63	175901.00	69
80	71	175902.00	79
90	80	175903.00	82

IEC Motors

DC Motors

Gearmotors

AC / DC Controls

Accessories / Kits

Mods / Factory Options

X-Ref / Index

Tech Information

Terms / Warnings

IEC Metric Motors

IEC Washguard® All-Stainless AC Motors



IEC B5 Flange - Round Body

Three Phase - Totally Enclosed - B5 Flange Less Base

HP/ kW	SYN RPM 60 Hz	IEC Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F. L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
1/3-0.25	1800	71	103403.00	✓	1,377	CZ4T17VZ16	30	208-230/460	1.3	70.5	1.15	9.87	S, US, 12
	1800	80	103405.00	✓	1,377	CZ4T17VZ17	30	208-230/460	1.3	70.5	1.15	9.87	S, US, 12
1/2-0.37	1800	71	103404.00	✓	1,424	CZ4T17VZ6	32	208-230/460	1.6	76.0	1.15	11.62	S, US, 12
	1800	80	103406.00	✓	1,424	CZ4T17VZ7	32	208-230/460	1.6	76.0	1.15	11.62	S, US, 12
3/4-0.55	1800	80	103407.00	✓	1,509	CZ4T17WZ9	38	208-230/460	2.3	77.0	1.15	12.26	S, US, 13
1- 0.75	1800	90	117516.00	✓	1,604	CZ6T17WC44	45	208-230/460	3.1	82.5	1.15	13.13	S, US, 13
1.5 - 1.1	1800	90	117517.00	✓	1,692	CZ6T17WC46	49	208-230/460	4.4	84.0	1.15	13.63	S, US, 13
2 - 1.5	1800	90	117518.00	✓	1,879	CZ6T17WC45	49	208-230/460	5.6	84.0	1.15	13.63	S, US, 13

Note 12 - TENV

♥ Note listing on inside back flap

Specifications are subject to change without notice

IEC B14 Flange - Round Body

Three Phase - Totally Enclosed - B14 Flange Less Base

HP/ kW	SYN RPM 60 Hz	IEC Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F. L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
1/3-0.25	1800	71	103395.00	✓	1,377	CZ4T17VZ13	30	208-230/460	1.3	70.5	1.15	9.83	S, US, 12
	1800	80	103397.00	✓	1,377	CZ4T17VZ14	30	208-230/460	1.3	70.5	1.15	9.72	S, US, 12
1/2-0.37	1800	71	103396.00	✓	1,424	CZ4T17VZ3	32	208-230/460	1.6	76.0	1.15	11.58	S, US, 12
	1800	80	103398.00	✓	1,424	CZ4T17VZ4	32	208-230/460	1.6	76.0	1.15	11.58	S, US, 12
3/4-0.55	1800	80	103399.00	C/A	1,509	CZ4T17WZ7	38	208-230/460	2.3	77.0	1.15	12.48	S, US, 13

Note 12 - TENV

♥ Note listing on inside back flap

C/A - Check Availability

Specifications are subject to change without notice

IEC B5 Flange - Rigid Base

Three Phase - Totally Enclosed - B5 Flange With Base

HP/ kW	SYN RPM 60 Hz	IEC Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F. L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
1/3-0.25	1800	80	103408.00	✓	1,400	CZ4T17VZ18	30	208-230/460	1.3	70.5	1.15	9.50	S, US, 12
1/2-0.37	1800	80	103409.00	✓	1,444	CZ4T17VZ8	32	208-230/460	1.6	76.0	1.15	12.75	S, US, 12
3/4-0.55	1800	80	103410.00	✓	1,539	CZ4T17WZ10	38	208-230/460	2.3	77.0	1.15	12.26	S, US, 13

Note 12 - TENV

♥ Note listing on inside back flap

Specifications are subject to change without notice

IEC B14 Flange - Rigid Base

Three Phase - Totally Enclosed - B14 Flange With Base

HP/ kW	SYN RPM 60 Hz	IEC Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Voltage	F. L. Amps @ 230 V	% F. L. Eff.	Service Factor	"C" Dim. (Inches)	♥Notes
1/3-0.25	1800	80	103400.00	✓	1,424	CZ4T17VZ15	31	208-230/460	1.3	70.5	1.15	9.72	S, US, 12
1/2-0.37	1800	80	103401.00	✓	1,573	CZ4T17VZ5	33	208-230/460	1.6	76.0	1.15	11.58	S, US, 12
3/4-0.55	1800	80	103402.00	✓	1,629	CZ4T17WZ8	39	208-230/460	2.3	77.0	1.15	12.48	S, US, 13

Note 12 - TENV

♥ Note listing on inside back flap

Specifications are subject to change without notice



View On-line Technical Information





SCR Rated 90 & 180V - TEFC - C Face With Base

HP/ kW	Full Load RPM	IEC Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	DC Voltage	Control Volts AC Input	F.L. Amps @ 180 VDC	"C" Dim. (Inches)	♥Notes
1/3 - 0.25	1750	80D	109068.00	✓	1,421	4D17VK27	44	180	230	1.9	12.81	S, US, 12
1/2 - 0.37	1750	80D	109071.00	✓	1,660	4D17WK11	46	180	230	2.7	13.87	S, US, 13
3/4 - 0.55	1750	80D	109074.00	✓	2,021	4D17WK15	48	180	230	3.7	15.37	S, US, 13
1 - 0.75	1750	80D	109077.00	✓	2,345	4D17WK18	50	180	230	5.0	16.37	S, US, 13

Base is welded to frame and not removable.

♥ Note listing on inside back flap

Note 12 - TENV

Specifications are subject to change without notice

180 Volt - TEFC - C Face Less Base

HP/ kW	Full Load RPM	IEC Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	DC Voltage	Control Volts AC Input	F.L. Amps @ 180 VDC	"C" Dim. (Inches)	♥Notes
1/3 - 0.25	1750	80D	109081.00	✓	1,389	4D17VC8	44	180	230	1.9	12.81	S, US, 12
1/2 - 0.37	1750	80D	109084.00	✓	1,629	4D17WC4	46	180	230	2.7	13.87	S, US, 13
3/4 - 0.55	1750	80D	109087.00	✓	1,990	4D17WC7	48	180	230	3.7	15.37	S, US, 13
1 - 0.75	1750	80D	109090.00	✓	2,315	4D17WC10	50	180	230	5.0	16.37	S, US, 13

Note 12 - TENV

♥ Note listing on inside back flap

Specifications are subject to change without notice

Flange And Face Kits for Stainless Steel DC Metric (IEC) Frame Motors

The modular design concept of LEESON's other metric DC motors has been applied to the all-stainless metric motors. Any flange or face kit can mount on any motor. This allows the greatest flexibility from the smallest inventory of motors.

B5 Flange Kits (For Stainless DC Metric Motors)

IEC Frame	Catalog Number	List Price	App. Wgt. (lbs)	AK Register (mm)	BF Hole (mm)	AJ Bolt Circle (mm)	BD Flange Dia. (mm)
71	175593.00	179	2	110	9	130	160
80	175594.00	216	3	130	12	165	200
90S/90L	175594.00	216	3	130	12	165	200
100L/112M	175595.00	337	5	180	15	215	250

Specifications are subject to change without notice

B14 Flange Kits (For Stainless DC Metric Motors)

IEC Frame	Catalog Number	List Price	App. Wgt. (lbs)	AK Register (mm)	BF Hole (mm)	AJ Bolt Circle (mm)	BD Flange Dia. (mm)
71	175596.00	136	1	70	6	85	105
80	175597.00	136	1	80	6	100	120
90S/90L	175598.00	371	1	95	6	115	140
100L/112M	175599.00	337	2	110	6	130	160

Specifications are subject to change without notice

View On-line Technical Information



IEC Metric Motors

DC Metric Motors

Metric (IEC) Frame - SCR Rated - IP54



Application Notes:

Please note that one or more of the mounting kits must be used with IEC motors of these frame sizes. See listing on next page for B5 flange and B14 face kits. B3 rigid base kits are listed below.

General Specifications:

- Built to IEC 34-1 Electrical and Mechanical standards
- IEC 63 and smaller frames supplied with an integral B5 Flange or B14 face
- Optional B3 Rigid base kit available
- IEC 71 frame and larger can be field modified for B3 Rigid Base, B5 Flange, or B14 face construction using conversion kits
- Tachometer mounting kits available for 71 and 80 frames only

Features:

- Cast aluminum conduit box
- Terminal board provided for connections
- All Metric fasteners
- Easy brush access for field service
- Oversize brushes for extended life
- High strength rolled steel frame
- Die cast aluminum endshields with Steel bearing inserts
- Permanently lubricated sealed ball bearings
- Reversible rotation
- Simple 2 lead connection
- Convenient wiring access
- Tachometer mounting kits available for 71 and 80 frames only



180 Volts - Totally Enclosed - B5 Flange

kW/HP	Full Load RPM	IEC Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	DC Voltage	Control Volts AC Input	F.L. Amps @ 180 VDC	"C" Dim. (Inches)	♥Notes
0.06/1/12	1750	56	M1130146.00	C/A	450	CIM34D18ND1	8	180	230	0.5	6.24	S, US, 12
0.09/1/8	3000	56	M1130150.00	✓	450	CIM34D30ND1	9	180	230	0.7	6.74	S, US, 12
	1750	56	M1130147.00	✓	482	CIM34D18ND2	10	180	230	0.7	7.55	S, US, 12
0.12/1/6	3000	56	M1130151.00	✓	466	CIM34D30ND2	9	180	230	0.9	7.55	S, US, 12
	1750	63	M1130148.00	✓	552	CIM34D18FD1	7	180	230	0.9	8.30	S, US, 13
0.18/1/4	3000	63	M1130152.00	✓	509	CIM34D30ND3	11	180	230	1.3	8.78	S, US, 12
	1750	63	M1130149.00	✓	592	CIM34D18FD2	13	180	230	1.3	9.50	S, US, 13
0.25/1/3	3000	63	M1130153.00	✓	565	CIM34D30FD1	11	180	230	1.7	9.50	S, US, 13

Note 12 - TENV

♥ Note listing on inside back flap

These motors have accommodations for B3 base mountings with the kits - see page 292

C/A - Check Availability

Specifications are subject to change without notice



View On-line Technical Information





IEC Metric Motors

DC Metric Motors

Metric (IEC) Frame - SCR Rated - IP54



180 volts - Totally Enclosed - B14 Flange

HP/kW	Full Load RPM	IEC Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	DC Voltage	Control Volts AC Input	F.L. Amps @ 180 VDC	"C" Dim. (Inches)	♥ Notes
0.06/1/12	3000	56	M1110024.00	✓	402	980.542	6	180	230	0.4	6.34	S, US, 12
	1750	56	M1130136.00	✓	450	CIM34D18NC5	8	180	230	0.5	6.24	S, US, 12
0.09/1/8	3000	56	M1130140.00	✓	450	CIM34D30NC1	9	180	230	0.7	6.74	S, US, 12
	1750	56	M1130137.00	✓	482	CIM34D18NC6	14	180	230	0.7	7.55	S, US, 12
0.12/1/6	3000	56	M1130141.00	✓	466	CIM34D30NC2	10	180	230	0.9	7.55	S, US, 12
	1750	63	M1130138.00	✓	552	CIM34D18FC1	8	180	230	0.9	8.30	S, US, 13
0.18/1/4	3000	63	M1130142.00	✓	509	CIM34D30NC3	10	180	230	1.3	8.78	S, US, 12
	1750	63	M1130139.00	✓	592	CIM34D18FC2	10	180	230	1.3	9.50	S, US, 13
0.25/1/3	3000	63	M1130143.00	✓	565	CIM34D30FC1	10	180	230	1.7	9.50	S, US, 13

Note 12 - TENV

Except for M1110024.00, these motors have accommodations for B3 base mountings with the kits - see page 292

C/A - Check Availability

Specifications are subject to change without notice

♥ Note listing on inside back flap



TEFC - SCR Rated 180 Volts - Round Body

HP/kW	Full Load RPM	IEC Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	DC Voltage	Control Volts AC Input	F.L. Amps @ 180 VDC	"C" Dim. (Inches)	♥ Notes
0.25/1/3	1750	71	098014.00	✓	589	42D17FT1	23	180	230	1.7	11.28	S, US
0.37/1/2	3000	71	098016.00	✓	629	42D34FT1	21	180	230	2.5	10.78	S, US
	1750	71	098015.00	✓	668	42D17FT2	26	180	230	2.5	11.78	S, US
0.55/3/4	3000	71	098017.00	✓	723	42D34FT2	24	180	230	3.6	11.78	S, US
	1750	80	108369.00	✓	827	4D17FT1	34	180	230	3.5	14.64	S, US
0.75/1	3000	80	108372.00	✓	827	4D34FT1	45	180	230	4.9	14.64	S, US
	1750	80	108370.00	✓	1,021	4D17FT2	48	180	230	4.6	17.14	S, US
1.1/1 1/2	3000	80	108373.00	✓	915	4D34FT2	47	180	230	7.1	16.14	S, US
	1750	80	108371.00	✓	1,348	4D17FT3	52	180	230	7.0	17.14	S, US
	1750	90L	118007.00	✓	2,007	CI6D17FT1	64	180	230	7.5	18.97	S, US
1.5/2	3000	90L	118009.00	✓	2,007	CI6D34FT1	72	180	230	10.0	18.47	S, US
	1750	90L	118008.00	✓	2,408	CI6D17FT2	84	180	230	9.5	20.47	S, US
2.2/3	3000	90L	118010.00	✓	2,408	CI6D34FT2	82	180	230	16.0	19.47	S, US
	1750	112M	118014.00	✓	3,361	CI6D17FK1	90	180	230	14.0	21.79	S, US

IMPORTANT: These round body motors require either a B3 rigid base, B14 face or B5 flange kit - see page 292. Catalog number 118014.00 comes complete with IEC 112 B14 face and B3 foot; shaft diameter is 24mm.

♥ Note listing on inside back flap

Specifications are subject to change without notice

View On-line Technical Information



IEC Motors

DC Motors

Gearmotors

AC / DC Controls

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Motors / Factory Options

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IEC Metric Motors

Metric (IEC) Frame - SCR Rated

(For DC Metric Motors Only)

All motors are stocked with provisions to accommodate B3 foot mountings with the packages noted below.

B3 Foot Mounting Kits

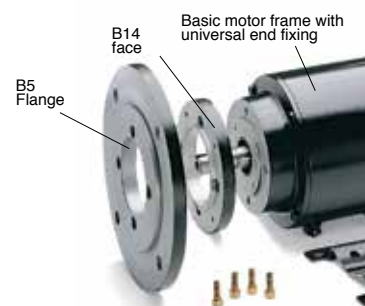
IEC Frame	Catalog Number	List Price
56	175142.00	66
63	175143.00	66
71	175144.00	72
80	175145.00	78
80	175784.00†	78
90	175146.00	50

† For endshield mounted brush cover motors

Flange Kits

Flange and Face Kits for DC Metric (IEC) Frame Motors

An advantage of LEESON'S modular design concept is the possible use of a different diameter B5 flange or B14 face than is normally assigned to a motor by IEC dimensional standards. This flexibility makes it possible to accommodate a wide variety of gear reducers, pumps and similar close coupled motor mounted loads.



B5 Flange Kits (For DC Metric Motors Only)

IEC Frame	Catalog Number	List Price	App. Wgt. (lbs)	AK Register (mm)	BF Hole (mm)	AJ Bolt Circle (mm)	BD Flange Dia. (mm)
71	175106.00	80	2	110	9	130	160
80	175108.00	80	3	130	12	165	200
90S/90L	175108.00	80	3	130	12	165	200
100L/112M	175137.00	195	5	180	15	215	250

Specifications are subject to change without notice

B14 Face Kits (For DC Metric Motors Only)

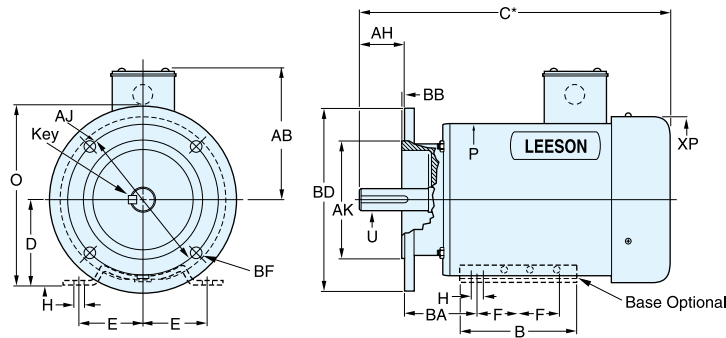
IEC Frame	Catalog Number	List Price	App. Wgt. (lbs)	AK Register (mm)	BF Hole (mm)	AJ Bolt Circle (mm)	BD Flange Dia. (mm)
71	175107.00	80	1	70	6	85	105
80	175109.00	80	1	80	6	100	120
90S/90L	175129.00	80	1	95	6	115	140
100L/112M	175130.00	195	2	110	6	130	160

Specifications are subject to change without notice

IEC Metric Motors

DC Metric Motors

Metric (IEC) Frame • SCR Rated



*For overall length, see motor listing.

IEC Frame Dimensions (Millimeters)

IEC Frame	Mounting					Shaft						B14 Face/B5 Flange					General			
	2E	2F	BA	D	H	U	AH	KEY	S	R	TAP	AJ	AK	BD	BF	BB	AB	XP	B	O
56	90	71	36	56	6	9	20	15	3	7.0	M3	65 100	50 80	80 120	M5 7	2.5 2.5	83	96	90	99
63	100	80	40	63	7	11	23	19	4	9.0	M4	75 115	60 95	90 140	M5 9	2.5 3.0	116	96	96	108
71	112	90	45	71	7	14	30	26	5	11.5	M5	85 130	70 110	105 160	M6 9	2.5 3.5	114	130	105	132
80	125	100	50	80	10	19	40	33	6	16.0	M6	100 165	80 130	120 200	M6 12	3.0 3.5	124	149	127	151
90S	140	100	56	90	10	24	50	36	8	20.5	M8	115 165	95 130	140 200	M8 12	3.0 3.5	135	182	152	173
90L	140	125	56	90	10	24	50	36	8	20.5	M8	115 165	95 130	140 200	M8 12	3.0 3.5	135	182	152	173
100L	160	140	63	100	12	28	60	41	8	24.5	M10	130 215	110 180	160 250	M8 15	3.5 4.0	135	182	176	173
112M	190	140	70	112	12	28	60	41	8	24.5	M10	130 215	110 180	160 250	M8 15	3.5 4.0	162	231	176	225

◇ Without face or flange AH shaft dimension is 12mm longer.

Specifications are subject to change without notice

IEC Metric Motors

DC Metric Motors

Low Voltage - DC Metric - IP 54



General Specifications:

- Built to IEC 34-1 Electrical and Mechanical standards
- IEC 63 and smaller frames supplied with an integral B5 Flange or B14 face
- Optional B3 Rigid base kit available
- IEC 71 frame and larger can be field modified for B3 Rigid Base, B5 Flange, or B14 face construction using conversion kits
- Tachometer mounting kits available for 71 and 80 frames only

Features:

- Cast aluminum conduit box
- Terminal board provided for connections
- All Metric fasteners
- Easy brush access for field service
- Oversize brushes for extended life
- High strength rolled steel frame
- Die cast aluminum endshields with Steel bearing inserts
- Permanently lubricated sealed ball bearings
- Reversible rotation
- Simple 2 lead connection
- Convenient wiring access
- Tachometer mounting kits available for 71 and 80 frames only



24 Volt - TEFC/TENV - Modular Design

HP/kW	Full Load RPM	IEC Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	DC Voltage	F. L. Amps DC	"C" Dim. (Inches)	♥ Notes
0.06/1/12	3000	56	M1110025.00	✓	367	980.543	5	24	3.3	5.34	S, US, 12, >
	1750	56	M1110026.00	✓	414	980.544	6	24	3.4	6.34	S, US, 12, >
0.18/1/4	3000	63	M1130206.00	✓	467	CIM34D30FD2	13	24	11.0	7.75	S, US, □
	3000	63	M1130296.00	✓	467	CIM34D30FC7	9	24	11.0	7.75	S, US, >
	1750	63	M1130207.00	✓	535	CIM34D18FD6	13	24	10.0	8.75	S, US, □
	1750	63	M1130297.00	✓	535	CIM34D18FC10	9	24	10.0	8.75	S, US, >
	1750	71	098065.00	✓	641	42D17FT6	19	24	11.0	10.77	S, US
	1750	71	098066.00	✓	662	42D34FT7	23	24	20.0	11.27	S, US
0.37/1/2	3000	71	098066.00	✓	662	42D34FT7	23	24	20.0	11.27	S, US
	1750	71	098067.00	✓	701	42D17FT7	23	24	20.0	12.27	S, US
0.75/1	3000	80	108456.00	✓	770	4D34FT5	33	24	40.0	14.14	S, US, 35
	1750	80	108455.00	✓	900	4D17FT6	52	24	39.0	14.64	S, US, 35
1.1/11/2	3000	80	108457.00	✓	855	4D34FT6	33	24	65.0	15.64	S, US, 35
1.5/2	3000	80	108458.00	✓	983	4D34FT7	43	24	78.0	17.14	S, US, 35

Note 12 - TENV

Note 35 - Terminal bolts at 12:00

IMPORTANT: IEC 71 and 80 frame motors in this chart are round body and require either B14 face, B5 flange or B3 foot from kits shown on page 292.

□ Dedicated B5 Flange

> Dedicated B14 Face

Specifications are subject to change without notice

♥ Note listing on inside back flap



View On-line Technical Information





IEC Metric Motors

DC Metric Motors

Low Voltage Commercial Duty Metric (IEC) Frame Motors

Features:

- Specially designed low voltage DC for use in OEM applications
- Combination of features and low cost make these ideal for many uses
- IP44(TENV) enclosure
- Dedicated B14 face mount
- Rated S1 for continuous duty
- Zinc plated steel frame construction



12, 24 & 90 Volt - TENV - B14 Mount

HP	Full Load RPM	IEC Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	DC Voltage	F. L. Amps DC	♥ Notes
1/15	3000	56	980.159	C/A	187	980.159	2.3	12	6.4	S, US
	3000	56	980.143	C/A	187	980.143	2.3	24	3.2	S, US
	3000	56	980.549	C/A	179	980.549	2.3	90	0.8	S, US
1/8	3000	56	970.600	√	216	970.600	3.0	12	12.0	S, US
	3000	56	970.601	C/A	216	970.601	3.0	24	5.3	S, US
	3000	56	970.576	C/A	216	970.576	3.0	90	1.2	S, US
1/6	3000	56	970.620	√	234	970.620	3.5	12	13.1	S, US
	3000	56	970.621	C/A	234	970.621	3.5	24	6.8	S, US
	3000	56	970.577	C/A	222	970.577	3.5	90	1.6	S, US

C/A - Check Availability

♥ Note listing on inside back flap

Specifications are subject to change without notice

View On-line Technical Information



IEC Motors

DC Motors

Gearmotors

AC / DC Controls

Accessories / Kits

Mots / Factory Options

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Tech Information

Terms / Warnings

DC Motors



- NEMA DC, explosion proof, SUB-FHP, washdown, IEC and low voltage motors available
- Permanent magnet designs
- PWM or SCR rated and low voltage input voltage designs
- Removable bolt-on base
- Oversized brushes for long brush life
- Easy access to brushes
- Constant torque throughout speed range
- DC Controls available to change the speed of the motors

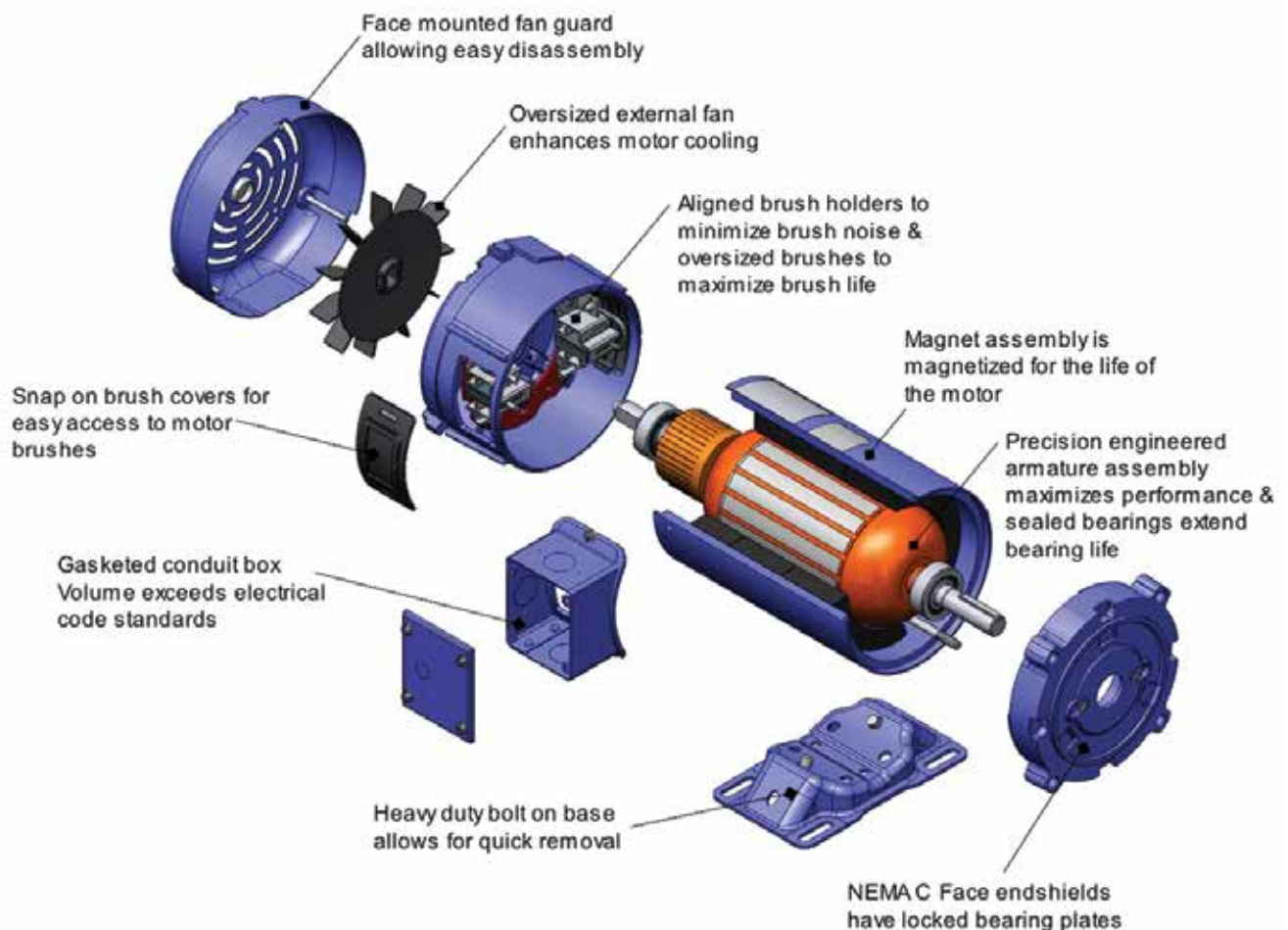
Applications:

DC motors are typically used in applications requiring motor speed adjustment, constant torque throughout the speed range and reversing capabilities. Applications would include: pumps, conveyors, turntables, textile machinery, treadmills, reeling equipment, sports equipment and medical equipment.



Mechanical/ Electrical Features:

- Brush holder design provides easy access to brushes
- Large oversized brushes assure long brush life
- Removable bolt-on base
- NEMA C face designs
- 115 or 230 volt input power ratings – 90 / 180 volt output
- Capable of dynamic braking
- PWM or SCR type controller rated
- High starting torque
- Permanently lubricated sealed bearings
- LEESON SCR controls available to power motors
- High starting torque
- Higher HP and speed achievable using PWM type DC controls
- UL and CSA Listed
- Meets NEMA MG1 standards
- Dynamically balanced armatures
- 30:1 constant torque operation



DC Motors

NEMA Frame - SCR Rated



TEFC - SCR Rated 90 & 180 Volts

NEMA 56C - C Face With Removable Base

HP	Full Load RPM	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Arm. Volts DC	Control Volts AC Input	F. L. Amps DC	"C" Dim. (Inches)	♥ Notes
1/4	1750	SS56C	098002.00	✓	630	42D17FK2	19	90	115	2.5	10.81	S, US
	1750	SS56C	098003.00	✓	630	42D17FK3	22	180	230	1.4	11.31	S, US
1/3	1750	SS56C	098004.00	✓	668	42D17FK4	23	90	115	3.5	11.31	S, US
	1750	SS56C	098005.00	✓	668	42D17FK5	23	180	230	1.7	11.31	S, US
	1140	S56C	109098.00	C/A	820	4D11FK5	32	90	115	3.5	12.81	S, US
1/2	2500	SS56C	098006.00	✓	668	42D28FK1	22	90	115	5.0	10.81	S, US
	2500	SS56C	098007.00	✓	668	42D28FK2	22	180	230	2.5	10.81	S, US
	1750	SS56C	098000.00	✓	743	42D17FK1	26	90	115	5.0	11.81	S, US
	1750	S56C	108014.00	✓	780	4D17FK1	29	90	115	5.0	12.82	S, US
	1750	SS56C	098008.00	✓	743	42D17FK6	25	180	230	2.5	11.81	S, US
	1750	S56C	108015.00	✓	780	4D17FK2	30	180	230	2.5	12.82	S, US
	1140	S56C	109099.00	✓	861	4D11FK6	40	90	115	5.0	14.32	S, US
	2500	SS56C	098009.00	✓	800	42D28FK3	26	90	115	7.6	11.81	S, US
3/4	2500	S56C	108016.00	✓	842	4D28FK3	29	90	115	7.6	12.82	S, US
	2500	SS56C	098010.00	✓	800	42D28FK4	25	180	230	3.8	11.81	S, US
	2500	S56C	108017.00	✓	842	4D28FK4	29	180	230	3.8	12.82	S, US
	1750	SS56C	098032.00	✓	903	42D17FK7	36	90	115	7.6	13.81	S, US
	1750	S56C	108018.00	✓	950	4D17FK3	38	90	115	7.6	13.82	S, US
	1750	SS56C	098069.00	✓	903	42D17FK11	36	180	230	3.8	13.81	S, US
	1750	S56C	108019.00	✓	950	4D17FK4	35	180	230	3.8	13.82	S, US
	1140	S56C	109100.00	✓	1,163	4D11FK7	49	90	115	7.5	15.82	S, US
1	2500	S56C	108020.00	✓	903	4D28FK5	34	90	115	10.0	13.32	S, US
	2500	S56C	108021.00	✓	903	4D28FK6	38	180	230	5.0	13.82	S, US
	1750	S56C	108022.00	✓	1,105	4D17FK5	47	90	115	10.0	14.82	S, US
	1750	S56C	108023.00	✓	1,105	4D17FK6	39	180	230	5.0	14.81	S, US
	1140	145TC	128023.00	C/A	2,202	C145D11FK1	82	90	115	11.0	18.84	S, US
1 1/2	2500	S56C	108265.00	✓	1,337	4D28FK11	43	180	230	7.5	15.32	S, US
	1750	S56C	108092.00	✓	1,380	4D17FK10	53	180	230	7.6	16.82	S, US
	1750	S56/145TC	108262.00	✓	1,380	4D17FK19	54	180	230	7.6	17.39	S, US, 8
	1750	145TC	128000.00	✓	2,095	C145D17FK2	70	180	230	7.5	18.34	S, US
2	2500	S56/145TC	108266.00	✓	2,095	4D28FK12	51	180	230	8.6	17.89	S, US, 8
	1750	145TC	128010.00	✓	2,501	C145D17FK3	83	180	230	9.5	19.34	S, US
3	1750	182/145TC	128001.00	✓	2,501	C182D17FK3	84	180	230	9.5	19.34	S, US, 61
	1750	182/145TC	108502.00	✓	3,483	182D17FK2	88	180	230	14.0	21.75	S, US, 61

If base is removed, do not reinstall bolts without using washers to compensate for thickness of base.

♥ Note listing on inside back flap

C/A - Check Availability

Specifications are subject to change without notice



View On-line Technical Information



DC Motors NEMA Frame - SCR Rated



TEFC - SCR Rated 90 & 180 Volts NEMA 56C - C Face Less Base*

HP	Full Load RPM	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Arm. Volts DC	Control Volts AC Input	F. L. Amps DC	"C" Dim. (Inches)	♥ Notes
1/4	1750	SS56C	098377.00	✓	608	42D17FC29	19	90	115	2.5	10.81	S, US
1/3	1750	SS56C	098378.00	✓	648	42D17FC30	23	90	115	3.5	11.31	S, US
1/2	1750	SS56C	098379.00	✓	722	42D17FC31	29	90	115	5.0	11.81	S, US
3/4	1750	SS56C	098380.00	✓	881	42D17FC32	38	90	115	7.6	13.81	S, US
1	1750	S56C	109096.00	✓	1,081	4D17FC42	47	90	115	10.0	14.82	S, US
	1750	S56C	109097.00	✓	1,081	4D17FC43	39	180	230	5.0	14.82	S, US

No tapped holes provided for attaching a bolt-on base.

♥ Note listing on inside back flap

Specifications are subject to change without notice

All necessary parts to mount listed tachometers to stock TEFC SCR motors. Consists of machined cast fan cover, coupling and hardware. Does not include tachometer. Tach adapter kit is not suitable for catalog number 108502.00.

Tachometer Mounting Kits For DC Motors

Tachometer Type	NEMA Frame	IEC Frame	Catalog Number	List Price	App. Wgt. (lbs)
GE 5PY Series	SS56	71	175156.00	285	5
	56/145	—	175158.00	584	5
Servo-tek	SS56	71	175157.00	300	8
SA740 Series	56/145	—	175159.00	666	8

No Kit available for S56C motors

Specifications are subject to change without notice

Motors with S56C or SS56C frame sizes may be converted to 42/48 C face using the following:

Modification Kits

Frame	Catalog Number	List Price
SS56C	175182.00	49
S56C	175082.00*	49
	175802.00†	49

* Addition of base kit will result in non-NEMA BA dimension of 2 3/4". Addition of C face kit will result in conduit box located at 1 o'clock facing lead end.

† For S56 frame endshield mounted brush cover motors

Specifications are subject to change without notice



DC motors in NEMA S56C frame may be converted to 48 base using the following:

Frame	Catalog Number	List Price
S56C	175080.00*	38

* Addition of base kit will result in non-NEMA BA dimension of 2 3/4". Addition of C face kit will result in conduit box located at 1 o'clock facing lead end

† For S56 frame endshield mounted brush cover motors

Specifications are subject to change without notice

DC Motors

Explosion-Proof - SCR Rated

Application Notes:

These motors must be applied in accordance with the National Electrical Code, Article #500. For a listing of explosive agents, consult NFPA Publication 497M.

General Specifications:

- Approved for application in hazardous environments where certain explosive gases or materials are present



Features:

- Rugged mechanical construction
- Meets all safety requirements
- UL and CSA listed
- Leads exit thru 3/4"-14NPT Pipe nipple at top of frame opposite shaft end
- Conduit box optional - see below
- Pilot duty thermostats -standard (connect to SCR control)
- Thermostats rated for continuous duty with full wave SCR(thyristor) controls.
- Double shielded, pre lubricated ball bearings - standard
- Easy brush access for field service

Explosion-Proof - Class I, Groups C & D – Class II, Groups F & G 90 & 180 Volt - TEFC - C Face With Removable Base

HP	Full Load RPM	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Arm. Volts DC	Control Volts AC Input	F. L. Amps DC	"C" Dim. (Inches)	♥ Notes
1/3	1750	S56C	118015.00	✓	2,419	C6D17EK1	27	90	115	3.5	13.41	S, US
1/2	1750	S56C	118016.00	✓	2,731	C6D17EK2	30	90	115	4.7	14.41	S, US
	1750	S56C	118017.00	✓	2,731	C6D17EK3	32	180	230	2.5	14.41	S, US
3/4	1750	S56C	118018.00	✓	3,384	C6D17EK4	40	90	115	7.1	16.41	S, US
	1750	S56C	118019.00	✓	3,384	C6D17EK5	36	180	230	3.3	16.41	S, US

Specifications are subject to change without notice

♥ Note listing on inside back flap

UL and CSA listed for Class I, Group C & D, and Class II, Groups F & G locations. Has grounding screw and all hardware provided. Mounts to motor by 3/4"-14NPT opening at rear of box. For NEMA 56 frame motors only.

Explosion-Proof Conduit Box

Catalog Number	List Price	App. Wgt. (lbs)
175026.00	103	2



Specifications are subject to change without notice



View On-line Technical Information



Nema Frame - Washguard® Duty - 90 & 180 Volts

General Specifications:

- Extended life in wet, high humid applications
- Design repels water from entering motor
- Internal components protected against rust and corrosion
- Frame, base, endshields, armature and interior components protected by enamel and polyester compounds of outstanding adhesion and resistance to moisture, acids, alkalies and oil



Features:

- 303 Stainless steel shaft resists corrosion
- Lubricated spring loaded contact seals prevent moisture from entering the motor
- Patented "V" ring forsheda seal deflects water
- Double sealed, Oversize bearings with high temp lubricant
- Exterior and interior components protected against moisture, acids, alkalies and oil
- Cast conduit box for superior sealing includes:
 - Threaded entrance
 - Drain holes
 - Nitrile gaskets
- 304 stainless steel conduit box cover and fan cover
- Re-positionable drain plugs for use in multiple mounting positions
- Nylon seals at bolt heads for superior sealing
- Machined fits throughout
- Stainless steel data plate
- Chemically inert, static free fan with positive mounting insures it wont move
- Stainless steel fan guard
- USDA Approved white epoxy finish

90 & 180 Volts - Totally Enclosed - C Face With Removable Base

HP	Full Load RPM	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Arm. Volts DC	Control Volts AC Input	F. L. Amps DC	"C" Dim. (Inches)	♥Notes
1/4	1750	S56C	108423.00	✓	808	C4D17VK9	23	90	115	2.7	10.69	S, US
	1750	S56C	098375.00	CA	808	C42D17VK1	21	180	230	1.4	10.22	S, US
1/3	1750	S56C	108424.00	✓	855	C4D17VK10	26	90	115	3.5	11.69	S, US
	1750	S56C	098376.00	C/A	855	C42D17VK2	22	180	230	1.7	10.22	S, US
1/2	1750	S56C	108226.00	✓	958	C4D17VK1	38	90	115	4.9	13.69	S, US
	1750	S56C	108227.00	✓	958	C4D17VK2	43	180	230	2.4	13.69	S, US
3/4	1750	S56C	108228.00	✓	1,163	C4D17VK3	53	90	115	7.0	15.69	S, US
	1750	S56C	108229.00	✓	1,163	C4D17VK4	50	180	230	3.5	15.69	S, US
1	1750	S56C	108230.00	✓	1,417	C4D17WK1	45	90	115	10.0	15.81	S, US
	1750	S56C	108231.00	✓	1,417	C4D17WK2	42	180	230	5.0	14.81	S, US
1 1/2	1750	S56C	108232.00	✓	1,810	C4D17WK3	50	180	230	7.6	15.81	S, US

C/A - Check Availability

♥ Note listing on inside back flap

Specifications are subject to change without notice

Washguard® - IEC Frame - TENV IP55

180 Volts - TENV - B5 Flange With Removable Base

HP/kW	Full Load RPM	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Arm. Volts DC	Control Volts AC Input	F. L. Amps DC	"C" Dim. (Inches)	♥Notes
1/2 - .37	1750	71	098040.00	C/A	847	42D17VD1	22	180	230	2.5	10.69	S, US
3/4 - .55	1750	80	108407.00	C/A	1,148	4D17VD1	52	180	230	3.5	16.02	S, US

If base is removed, do not reinstall bolts without using washers to compensate for the thickness of base. These WASHGUARD motors are modular design but stocked with B5 flange and B3 foot. The foot is removable. The B5 flange can be replaced with a B14 face or other diameter B5 flanges noted on page 306.

♥ Note listing on inside back flap

Specifications are subject to change without notice

View On-line Technical Information



DC Motors

Sub-FHP - SCR Rated

General Specifications:

Precision subfractional horsepower DC permanent magnet motors designed for use with full wave non-filtered SCR controls for adjustable speed applications requiring dynamic braking and constant torque throughout the speed range.

Features:

- Compact, space saving design
- Ball bearing construction
- Long life brushes
- External access to brushes allows for easy replacement further prolonging motor life
- Conduit box standard on 31 and 34 frame models
- Continuous duty with full wave un-filtered rectified SCR (thyristor) controls
- Linear speed torque characteristics throughout the speed range
- High starting torques
- Reversible rotation



90 & 180 Volt - TENV - Square Flange or C Face

HP	Full Load RPM	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Arm. Volts DC	Control Volts AC Input	F. L. Amps DC	♥Notes
1/25	3500	25AS	M1110014.00	✓	282	980.533	3	90	115	0.5	S, US, 12
	1750	25CS	M1110003.00	✓	292	980.535	3	90	115	0.5	S, US, 12
1/15	3500	25CS	M1110015.00	✓	302	980.539	5	90	115	0.7	S, US, 12
	1750	31BS	M1120013.00	✓	314	M31D17NZ1	5	90	115	0.8	S, US, 12
1/10	1750	31BS	M1120039.00	✓	314	M31D17NZ5	7	180	230	0.4	S, US, 12
	3500	31BS	M1120060.00	✓	314	M31D35NZ4	5	90	115	1.3	S, US, 12
	1750	31CS	M1120014.00	✓	371	M31D17NZ2	7	90	115	1.1	S, US, 12
	1750	31CS	M1120041.00	✓	371	M31D17NZ7	7	180	230	0.6	S, US, 12
1/8	3500	31CS	M1120059.00	✓	371	M31D35NZ3	6	90	115	1.5	S, US, 12
	1750	31ES	M1120027.00	✓	401	M31D18NZ10	7	90	115	1.3	S, US, 12
	1750	31ES	M1120045.00	✓	401	M31D17NZ11	7	180	230	0.7	S, US, 12
	1750	34D42CZ	M1130053.00	✓	416	CM34D17NC5	8	90	115	1.4	S, US, 12
1/6	1750	34D42CZ	M1130118.00	✓	416	CM34D17NC8	7	180	230	0.7	S, US, 12
	3500	31ES	M1120058.00	✓	401	M31D35NZ6	9	90	115	1.9	S, US, 12
	1750	31GS	M1120042.00	✓	405	M31D17NZ8	9	90	115	1.8	S, US, 12
	1750	31GS	M1120043.00	✓	405	M31D17NZ9	11	180	230	0.9	S, US, 12
1/4	1750	34E56C	M1130054.00	✓	424	CM34D17NC6	11	90	115	1.7	S, US, 12
	1750	34E56C	M1130119.00	C/A	424	CM34D17NC9	11	180	230	0.9	S, US, 12
	3500	31GS	M1120062.00	✓	423	M31D35NZ5	9	90	115	2.6	S, US, 12
	1750	34G56C	M1130055.00	✓	439	CM34D17FC2	13	90	115	2.7	S, US, 13
	1750	34G56C	M1130120.00	✓	439	CM34D17FC4	13	180	230	1.3	S, US, 13

B 25 frame motors have provisions for an optional conduit box catalog number M1760000.00, see page 346.

Note 13 - TEFC

Specifications are subject to change without notice

♥ Note listing on inside back flap



View On-line Technical Information



Application Notes:

LEESON Washguard® motors are designed for extended life in applications requiring regular washdown or otherwise wet environments. Washguard® motors retard the entrance of water. Extra protection for the motor's interior prevents rust and corrosion build-up and releases trapped moisture to insure a longer life than possible with a standard motor.

General Specifications:

Precision subfractional horsepower DC permanent magnet motors. Designed for use with fullwave nonfiltered SCR controls or battery supplied low voltage for adjustable speed applications requiring constant torque throughout the speed range.

Features:

- 303 Stainless steel shaft resists corrosion
- Lubricated spring loaded contact seals prevent moisture from entering the motor
- Double sealed, oversize bearings with high temp lubricant
- Exterior and interior components protected against moisture, acids, alkalies and oil
- Cast conduit box for superior sealing includes:
 - Threaded entrance
 - Drain holes
 - Nitrile gaskets
- 304 stainless steel conduit box cover
- Stainless steel hardware
- USDA approved white epoxy finish
- Nylon seals at bolt heads for superior sealing
- O ring sealed brush covers



90 Volt - TENV - Square Flange or C Face

HP	Full Load RPM	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Arm. Volts DC	Control Volts AC Input	F. L. Amps DC	♥Notes
1/8	1750	31S	M1120181.00	✓	502	CM31D17V21	11	90	115	1.5	S, US
1/6	1750	31S	M1120183.00	✓	509	CM31D17V23	11	90	115	1.9	S, US
1/4	2500	32F42CZ	M1120185.00	✓	554	CM32D25VC1	13	90	115	1.9	S, US

Specifications are subject to change without notice

♥ Note listing on inside back flap

12 Volt - TENV - Square Flange or C Face

HP	Full Load RPM	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Arm. Volts DC	F. L. Amps DC	♥Notes
1/8	1750	31S	M1120182.00	✓	523	CM31D17VZ2	7	12	11	S, US
1/6	1750	31S	M1120184.00	✓	530	CM31D17VZ4	11	12	15	S, US
1/4	2500	32F42CZ	M1120186.00	✓	575	CM32D25VC2	13	12	20	S, US

Specifications are subject to change without notice

♥ Note listing on inside back flap

View On-line Technical Information



IEC Motors
DC Motors
Gearmotors
AC / DC Controls
Accessories / Kits
Motors / Factory Options
X-Ref / Index
Tech Information
Terms / Warnings

DC Motors

METRIC (IEC) Frame - SCR Rated - IP54



Application Notes:

Please note that one or more of the mounting kits must be used with IEC motors of these frame sizes. See listing on next page for B5 flange and B14 face kits. B3 rigid base kits are listed below.

General Specifications:

- Built to IEC 34-1 Electrical and Mechanical standards
- IEC 63 and smaller frames supplied with an integral B5 Flange or B14 face
- Optional B3 Rigid base kit available
- IEC 71 frame and larger can be field modified for B3 Rigid Base, B5 Flange, or B14 face construction using conversion kits
- Tachometer mounting kits available for 71 and 80 frames only

Features:

- Cast aluminum conduit box
- Terminal board provided for connections
- All Metric fasteners
- Easy brush access for field service
- Oversize brushes for extended life
- High strength rolled steel frame
- Die cast aluminum endshields with steel bearing inserts
- Permanently lubricated sealed ball bearings
- Reversible rotation
- Simple 2 lead connection
- Convenient wiring access
- Tachometer mounting kits available for 71 and 80 frames only



180 Volts - Totally Enclosed - B5 Flange

HP/kW	Full Load RPM	IEC Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Arm. Volts DC	Control Volts AC Input	F. L. Amps DC	"C" Dim. (Inches)	♥ Notes
0.06/1/12	1750	56	M1130146.00	C/A	450	CIM34D18ND1	8	180	230	0.5	6.24	S, US, 12
0.09/1/8	3000	56	M1130150.00	✓	450	CIM34D30ND1	9	180	230	0.7	6.74	S, US, 12
	1750	56	M1130147.00	✓	482	CIM34D18ND2	10	180	230	0.7	7.55	S, US, 12
0.12/1/6	3000	56	M1130151.00	✓	466	CIM34D30ND2	9	180	230	0.9	7.55	S, US, 12
	1750	63	M1130148.00	✓	552	CIM34D18FD1	7	180	230	0.9	8.30	S, US, 13
0.18/1/4	3000	63	M1130152.00	✓	509	CIM34D30ND3	11	180	230	1.3	8.78	S, US, 12
	1750	63	M1130149.00	✓	592	CIM34D18FD2	13	180	230	1.3	9.50	S, US, 13
0.25/1/3	3000	63	M1130153.00	✓	565	CIM34D30FD1	11	180	230	1.7	9.50	S, US, 13

These motors have accommodations for B3 base mountings with the kits listed on page 306.

Note 12 - TENV

C/A - Check Availability

Specifications are subject to change without notice

♥ Note listing on inside back flap



View On-line Technical Information





180 volts - Totally Enclosed - B14 Flange

HP/kW	Full Load RPM	IEC Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Arm. Volts DC	Control Volts AC Input	F. L. Amps DC	"C" Dim. (Inches)	♥Notes
0.06/1/12	3000	56	M1110024.00	✓	402	980.542	6	180	230	0.4	6.34	S, US, 12
	1750	56	M1130136.00	✓	450	CIM34D18NC5	8	180	230	0.5	6.24	S, US, 12
0.09/1/8	3000	56	M1130140.00	✓	450	CIM34D30NC1	9	180	230	0.7	6.74	S, US, 12
	1750	56	M1130137.00	✓	482	CIM34D18NC6	14	180	230	0.7	7.55	S, US, 12
0.12/1/6	3000	56	M1130141.00	✓	466	CIM34D30NC2	10	180	230	0.9	7.55	S, US, 12
	1750	63	M1130138.00	✓	552	CIM34D18FC1	8	180	230	0.9	8.30	S, US, 13
0.18/1/4	3000	63	M1130142.00	✓	509	CIM34D30NC3	10	180	230	1.3	8.78	S, US, 12
	1750	63	M1130139.00	✓	592	CIM34D18FC2	10	180	230	1.3	9.50	S, US, 13
0.25/1/3	3000	63	M1130143.00	✓	565	CIM34D30FC1	10	180	230	1.7	9.50	S, US, 13

Except for M1110024.00, these motors have accommodations for B3 base mountings with kits - see page 306.

♥ Note listing on inside back flap

Note 12 - TENV

C/A - Check Availability

Specifications are subject to change without notice



TEFC - SCR Rated 180 Volts - Round Body

HP/kW	Full Load RPM	IEC Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Arm. Volts DC	Control Volts AC Input	F. L. Amps DC	"C" Dim. (Inches)	♥Notes
0.25/1/3	1750	71	098014.00	✓	589	42D17FT1	23	180	230	1.7	11.28	S, US
0.37/1/2	3000	71	098016.00	✓	629	42D34FT1	21	180	230	2.5	10.78	S, US
	1750	71	098015.00	✓	668	42D17FT2	26	180	230	2.5	11.78	S, US
0.55/3/4	3000	71	098017.00	✓	723	42D34FT2	24	180	230	3.6	11.78	S, US
	1750	80	108369.00	✓	827	4D17FT1	34	180	230	3.5	14.64	S, US
0.75/1	3000	80	108372.00	✓	827	4D34FT1	45	180	230	4.9	14.64	S, US
	1750	80	108370.00	✓	1,021	4D17FT2	48	180	230	4.6	17.14	S, US
1.1/11/2	3000	80	108373.00	✓	915	4D34FT2	47	180	230	7.1	16.14	S, US
	1750	80	108371.00	✓	1,348	4D17FT3	52	180	230	7.0	17.14	S, US
	1750	90L	118007.00	✓	2,007	CI6D17FT1	64	180	230	7.5	18.97	S, US
1.5/2	3000	90L	118009.00	✓	2,007	CI6D34FT1	72	180	230	10.0	18.47	S, US
	1750	90L	118008.00	✓	2,408	CI6D17FT2	84	180	230	9.5	20.47	S, US
2.2/3	3000	90L	118010.00	✓	2,408	CI6D34FT2	82	180	230	16.0	19.47	S, US
	1750	112M	118014.00	✓	3,361	CI6D17FK1	90	180	230	14.0	21.79	S, US

IMPORTANT: These round body motors require either a B3 rigid base, B14 face or B5 flange kit - see page 306. Catalog number 118014.00 comes complete with IEC 112 B14 face and B3 foot; shaft diameter is 24mm.

♥ Note listing on inside back flap

Specifications are subject to change without notice

View On-line Technical Information



DC Motors

Metric (IEC) Frame - SCR Rated

(For DC Metric Motors Only)

All motors are stocked with provisions to accommodate B3 foot mountings with the packages noted below.

B3 Foot Mounting Kits

IEC Frame	Catalog Number	List Price
56	175142.00	66
63	175143.00	66
71	175144.00	72
80	175145.00	78
80	175784.00†	78
90	175146.00	50

† For endshield mounted brush cover motors

Flange Kits

Flange and face kits for DC Metric (IEC) frame motors
An advantage of LEESON'S modular design concept is the possible use of a different diameter B5 flange or B14 face than is normally assigned to a motor by IEC dimensional standards. This flexibility makes it possible to accommodate a wide variety of gear reducers, pumps and similar close coupled motor mounted loads.

B5 Flange Kits (For DC Metric Motors Only)

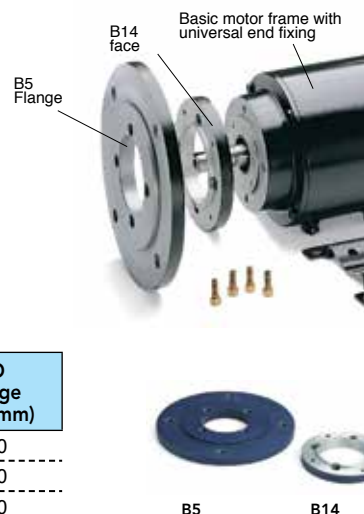
IEC Frame	Catalog Number	List Price	App. Wgt. (lbs)	AK Register (mm)	BF Hole (mm)	AJ Bolt Circle (mm)	BD Flange Dia. (mm)
71	175106.00	80	2	110	9	130	160
80	175108.00	80	3	130	12	165	200
90S/90L	175108.00	80	3	130	12	165	200
100L/112M	175137.00	195	5	180	15	215	250

Specifications are subject to change without notice

B14 Face Kits (For DC Metric Motors Only)

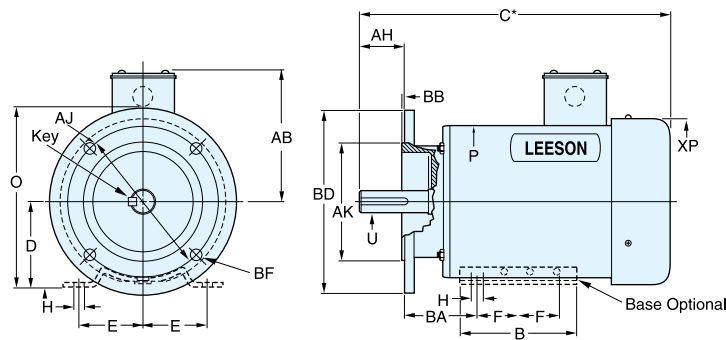
IEC Frame	Catalog Number	List Price	App. Wgt. (lbs)	AK Register (mm)	BF Hole (mm)	AJ Bolt Circle (mm)	BD Flange Dia. (mm)
71	175107.00	80	1	70	6	85	105
80	175109.00	80	1	80	6	100	120
90S/90L	175129.00	80	1	95	6	115	140
100L/112M	175130.00	195	2	110	6	130	160

Specifications are subject to change without notice



DC Motors

Metric (IEC) Frame - SCR Rated



*For overall length, see motor listing.

IEC Frame Dimensions (Millimeters)

IEC Frame	Mounting					Shaft						B14 Face/B5 Flange					General			
	2E	2F	BA	D	H	U	AH◇	KEY	S	R	TAP	AJ	AK	BD	BF	BB	AB	XP	B	O
56	90	71	36	56	6	9	20	15	3	7.0	M3	65 100	50 80	80 120	M5 7	2.5 2.5	83	96	90	99
63	100	80	40	63	7	11	23	19	4	9.0	M4	75 115	60 95	90 140	M5 9	2.5 3.0	116	96	96	108
71	112	90	45	71	7	14	30	26	5	11.5	M5	85 130	70 110	105 160	M6 9	2.5 3.5	114	130	105	132
80	125	100	50	80	10	19	40	33	6	16.0	M6	100 165	80 130	120 200	M6 12	3.0 3.5	124	149	127	151
90S	140	100	56	90	10	24	50	36	8	20.5	M8	115 165	95 130	140 200	M8 12	3.0 3.5	135	182	152	173
90L	140	125	56	90	10	24	50	36	8	20.5	M8	115 165	95 130	140 200	M8 12	3.0 3.5	135	182	152	173
100L	160	140	63	100	12	28	60	41	8	24.5	M10	130 215	110 180	160 250	M8 15	3.5 4.0	135	182	176	173
112M	190	140	70	112	12	28	60	41	8	24.5	M10	130 215	110 180	160 250	M8 15	3.5 4.0	162	231	176	225

◇ Without face or flange AH shaft dimension is 12mm longer.

Specifications are subject to change without notice

DC Motors

NEMA Frame - Low Voltage 12, 24, 36 & 48 VOLTS

General Specifications:

- Low voltage PMDC design suitable for battery, solar powered or generator supplied low voltage applications

Features:

- Oversized brushes for long life
- External access to brushes allows for easy replacement further prolonging motor life
- Heavy-duty, stamped steel, bolt on base (Removable)
- NEMA C face mounting flange at no additional cost
- High strength rolled steel frame
- Rugged die cast endshields with steel bearing inserts
- Permanently lubricated sealed ball bearings
- Convert to NEMA 48 frame base dimensions or NEMA 42/48 frame C face dimensions with modification kits shown below
- High starting torques for heavy load applications
- Linear speed torque characteristics throughout the speed range
- Capable of dynamic braking for faster stops
- Reversible rotation
- Simple two lead connection



12, 24, 36 & 48 Volts - TENV / TEFC - C Face With Removable Base

HP	Full Load RPM	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Arm. Volts DC	F. L. Amps DC	"C" Dim. (Inches)	♥ Notes
1/4	1750	S56C	108045.00	✓	675	4D17NK5	21	12	21.0	10.27	S, US, 12, 15
1/3	1750	S56C	108046.00	✓	742	4D17NK6	24	12	27.0	10.77	S, US, 12, 15
	1750	S56C	108050.00	✓	711	4D17NK9	22	24	13.5	10.77	S, US, 12, 15
1/2	1750	S56C	108047.00	✓	772	4D17NK7	29	12	39.0	11.77	S, US, 12, 15
	1750	S56C	108051.00	✓	736	4D17NK10	29	24	20.0	11.77	S, US, 12, 15
	1750	SS56C	098381.00	✓	701	42D18FK6	29	36	13.5	10.81	S, US
	1750	SS56C	098382.00	✓	678	42D18FK7	29	48	11.0	10.81	S, US
3/4	1750	S56C	108048.00	✓	851	4D17FK7	30	12	58.0	13.82	S, US, 35
	1750	S56C	108052.00	✓	771	4D17FK8	30	24	29.0	12.82	S, US
1	1750	S56C	108322.00	✓	1,015	4D17FK28	39	12	80.0	13.81	S, US, 35
	1750	S56C	108053.00	✓	934	4D17FK9	37	24	39.0	13.82	S, US, 35
	1750	S56C	109101.00	✓	895	4D18FK1	37	36	25.5	13.81	S, US
	1750	S56C	109102.00	✓	863	4D18FK2	37	48	18.5	13.81	S, US
1 1/2	1750	S56CZ	109103.00	✓	1,362	4D18FK3	39	24	60.0	15.25	S, US, 35, 9
	1750	S56CZ	109104.00	✓	1,346	4D18FK4	37	36	36.0	17.38	S, US, 35, 9
	1750	S56CZ	109105.00	✓	1,299	4D18FK5	37	48	27.0	17.38	S, US, 35, 9
2	1750	S56CZ	109106.00	✓	1,706	4D18FK6	42	24	70.0	16.74	S, US, 35, 9
	1750	S56CZ	109107.00	✓	1,577	4D18FK7	42	36	49.0	16.74	S, US, 35, 9
	1750	S56CZ	109108.00	✓	1,516	4D18FK8	42	48	38.0	16.74	S, US, 35, 9

If base is removed, do not reinstall bolts without using washers to compensate for thickness of base.
Note 12 - TENV

Note 15 - Built in conduit box
Note 35 - Terminal studs at 12:00
Specifications are subject to change without notice

♥ Note listing on inside back flap



View On-line Technical Information



General Specifications:

- Built to IEC 34-1 Electrical and Mechanical standards
- IEC 63 and smaller frames supplied with an integral B5 Flange or B14 face
- Optional B3 Rigid base kit available
- IEC 71 frame and larger can be field modified for B3 Rigid Base, B5 Flange, or B14 face construction using conversion kits
- Tachometer mounting kits available for 71 and 80 frames only

Features:

- Cast aluminum conduit box
- Terminal board provided for connections
- All Metric fasteners
- Easy brush access for field service
- Oversize brushes for extended life
- High strength rolled steel frame
- Die cast aluminum endshields with Steel bearing inserts
- Permanently lubricated sealed ball bearings
- Reversible rotation
- Simple 2 lead connection
- Convenient wiring access
- Tachometer mounting kits available for 71 and 80 frames only



24 Volt - TEFC/TENV - Modular Design

HP/ kW	Full Load RPM	IEC Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	DC Voltage	F.L. Amps VDC	"C" Dim. (Inches)	♥ Notes
0.06/1/12	3000	56	M1110025.00	✓	367	980.543	5	24	3.3	5.34	S, US, 12, >
	1750	56	M1110026.00	✓	414	980.544	6	24	3.4	6.34	S, US, 12, >
0.18/1/4	3000	63	M1130206.00	✓	467	CIM34D30FD2	13	24	11.0	7.75	S, US, ♣
	3000	63	M1130296.00	✓	467	CIM34D30FC7	9	24	11.0	7.75	S, US, >
	1750	63	M1130207.00	✓	535	CIM34D18FD6	13	24	10.0	8.75	S, US, ♣
	1750	63	M1130297.00	✓	535	CIM34D18FC10	9	24	10.0	8.75	S, US, >
	1750	71	098065.00	✓	641	42D17FT6	19	24	11.0	10.77	S, US
0.37/1/2	3000	71	098066.00	✓	662	42D34FT7	23	24	20.0	11.27	S, US
	1750	71	098067.00	✓	701	42D17FT7	23	24	20.0	12.27	S, US
0.75/1	3000	80	108456.00	✓	770	4D34FT5	33	24	40.0	14.14	S, US, 35
	1750	80	108455.00	✓	900	4D17FT6	52	24	39.0	14.64	S, US, 35
1.1/1 1/2	3000	80	108457.00	✓	855	4D34FT6	33	24	65.0	15.64	S, US, 35
1.5/2	3000	80	108458.00	✓	983	4D34FT7	43	24	78.0	17.14	S, US, 35

Note 12 - TENV

Note 35 - Terminal bolts at 12:00

IMPORTANT: IEC 71 and 80 frame motors in this chart are round body and require either B14 face, B5 flange or B3 foot from kits shown on page 306.

Note ♣ - Dedicated B5 Flange

Note > - Dedicated B14 Face

Specifications are subject to change without notice

♥ Note listing on inside back flap

View On-line Technical Information



DC Motors

SUB-FHP Low Voltage Motors

General Specifications:

- Low voltage PMDC design suitable for battery, solar powered or generator supplied low voltage applications

Features:

- Compact, space saving design
- Standard conduit box simplifies connections
- Ball bearing construction
- Long life brushes
- External access to brushes allows for easy replacement further prolonging motor life
- High starting torques
- Linear speed torque characteristics throughout the speed range
- Capable of dynamic braking for faster stops
- Reversible rotation
- Simple two lead connection
- Class F insulated with high temperature welded commutators.



12 & 24 Volts - TENV - Square Flange

HP	Full Load RPM	IEC Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Arm. Volts DC	F. L. Amps DC	♥Notes
1/20	1750	25CS	M1110006.00	√	267	980.536	3	12	4.4	S, US, *
1/10	4200							24	4.4	
1/14	1750	31AS	M1120040.00	√	314	M31D17NZ6	4	12	7.7	S, US
1/7	4200							24	7.7	
1/7	1750	31ES	M1120044.00	√	414	M31D17NZ10	9	12	13.0	S, US
1/4	3500							24	13.0	
1/6	1750	31GS	M1120046.00	√	438	M31D17NZ26	8	12	14.0	S, US
1/3	3900							24	14.0	

These motors may be operated at 12, 24V, or at intermediate voltages between 12 and 24V, within horsepower ranges noted.

♥ Note listing on inside back flap

Note * - Provision for optional conduit box - M1760000.00

Specifications are subject to change without notice



View On-line Technical Information



Low Voltage Commercial Duty Metric (IEC) Frame Motors

Features:

- Specially designed low voltage DC for use in OEM applications
- Combination of features and low cost make these ideal for many uses
- IP44(TENV) enclosure
- Dedicated B14 face mount
- Continuous duty
- Zinc plated steel frame construction



12, 24V & 90 Volt - TENV - B14 Mount

HP	Full Load RPM	IEC Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Arm. Volts DC	F. L. Amps DC	♥Notes
1/15	3000	56	980.159	✓	187	980.159	2.3	12	6.4	S, US
	3000	56	980.143	✓	187	980.143	2.3	24	3.2	S, US
	3000	56	980.549	✓	179	980.549	2.3	90	0.8	S, US
1/8	3000	56	970.600	✓	216	970.600	3.0	12	12.0	S, US
	3000	56	970.601	✓	216	970.601	3.0	24	5.3	S, US
	3000	56	970.576	✓	216	970.576	3.0	90	1.2	S, US
1/6	3000	56	970.620	✓	234	970.620	3.5	12	13.1	S, US
	3000	56	970.621	✓	234	970.621	3.5	24	6.8	S, US
	3000	56	970.577	✓	222	970.577	3.5	90	1.6	S, US

Specifications are subject to change without notice

♥ Note listing on inside back flap



View On-line Technical Information



DC Motors - Washguard® Motors

NEMA and IEC Washguard®

All-Stainless DC Motors - SCR Rated



TEFC - SCR Rated 90 & 180V - NEMA - C Face With Base

HP	Full Load RPM	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Arm. Volts DC	Control Volts AC Input	F. L. Amps DC	"C" Dim. (Inches)	♥Notes
1/4	1750	S56C	109065.00	✓	1,344	4D17VK24	38	90	115	3.1	11.81	S, US, 12
1/3	1750	S56C	109066.00	✓	1,421	4D17VK25	44	90	115	3.8	12.81	S, US, 12
	1750	S56C	109067.00	✓	1,421	4D17VK26	44	180	230	1.9	12.81	S, US, 12
1/2	1750	S56C	109069.00	✓	1,660	4D17WK9	46	90	115	5.2	13.87	S, US, 13
	1750	S56C	109070.00	✓	1,660	4D17WK10	46	180	230	2.7	13.87	S, US, 13
3/4	1750	S56C	109072.00	✓	2,021	4D17WK13	47	90	115	7.5	15.37	S, US, 13
	1750	S56C	109073.00	✓	2,021	4D17WK14	48	180	230	3.7	15.37	S, US, 13
1	1750	S56C	109075.00	✓	2,345	4D17WK16	51	90	115	9.5	16.37	S, US, 13
	1750	S56C	109076.00	✓	2,345	4D17WK17	50	180	230	5.0	16.37	S, US, 13

Base is welded to frame and not removable

♥ Note listing on inside back flap

Note 12 - TENV

Specifications are subject to change without notice



TEFC - SCR Rated 90 & 180V - NEMA - C Face Less Base

HP	Full Load RPM	NEMA Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Arm. Volts DC	Control Volts AC Input	F. L. Amps DC	"C" Dim. (Inches)	♥Notes
1/4	1750	S56C	109078.00	✓	1,312	4D17VC5	38	90	115	3.1	11.81	S, US, 12
1/3	1750	S56C	109079.00	✓	1,389	4D17VC6	44	90	115	3.8	12.81	S, US, 13
	1750	S56C	109080.00	✓	1,389	4D17VC7	44	180	230	1.9	12.81	S, US, 13
1/2	1750	S56C	109082.00	✓	1,629	4D17WC2	46	90	115	5.2	13.87	S, US, 13
	1750	S56C	109083.00	✓	1,629	4D17WC3	46	180	230	2.7	13.87	S, US, 13
3/4	1750	S56C	109085.00	✓	1,990	4D17WC5	47	90	115	7.5	15.37	S, US, 13
	1750	S56C	109086.00	C/A	1,990	4D17WC6	48	180	230	3.7	15.37	S, US, 13
1	1750	S56C	109088.00	✓	2,315	4D17WC8	51	90	115	9.5	16.37	S, US, 13
	1750	S56C	109089.00	✓	2,315	4D17WC9	50	180	230	5.0	16.37	S, US, 13

C/A - Check Availability

♥ Note listing on inside back flap

Note 12 - TENV

Specifications are subject to change without notice



View On-line Technical Information



DC Motors - Washguard® Motors

Metric (IEC) Frame PMDC Motors

TEFC - SCR Rated 90 & 180V - All Stainless Steel - C Face With Base

HP/kW	Full Load RPM	IEC Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Arm. Volts DC	Control Volts AC Input	F. L. Amps DC	"C" Dim. (Inches)	♥ Notes
1/3 - 0.25	1750	80D	109068.00	✓	1,421	4D17VK27	44	180	230	1.9	12.81	S, US, 12
1/2 - 0.37	1750	80D	109071.00	✓	1,660	4D17WK11	46	180	230	2.7	13.87	S, US, 13
3/4 - 0.55	1750	80D	109074.00	✓	2,021	4D17WK15	48	180	230	3.7	15.37	S, US, 13
1 - 0.75	1750	80D	109077.00	✓	2,345	4D17WK18	50	180	230	5.0	16.37	S, US, 13

Note 12 - TENV

♥ Note listing on inside back flap

Base is welded to frame and not removable

Specifications are subject to change without notice

TEFC - SCR Rated 90 & 180V - Metric (IEC) - All-Stainless Steel - C Face Less Base

HP/kW	Full Load RPM	IEC Frame	Catalog Number	Stock	List Price	Model Number	App. Wgt. (lbs)	Arm. Volts DC	Control Volts AC Input	F. L. Amps DC	"C" Dim. (Inches)	♥ Notes
1/3 - 0.25	1750	80D	109081.00	✓	1,389	4D17VC8	44	180	230	1.9	12.81	S, US, 12
1/2 - 0.37	1750	80D	109084.00	✓	1,629	4D17WC4	46	180	230	2.7	13.87	S, US, 13
3/4 - 0.55	1750	80D	109087.00	✓	1,990	4D17WC7	48	180	230	3.7	15.37	S, US, 13
1 - 0.75	1750	80D	109090.00	✓	2,315	4D17WC10	50	180	230	5.0	16.37	S, US, 13

Specifications are subject to change without notice

♥ Note listing on inside back flap

Flange And Face Kits for DC Metric (IEC) Frame Motors

The modular design concept of LEESON's other metric DC motors has been applied to the all-stainless metric motors. Any flange or face kit can mount on any motor. This allows the greatest flexibility from the smallest inventory of motors.

B5 Flange Kits (For Stainless DC Metric Motors)

IEC Frame	Catalog Number	List Price	App. Wgt. (lbs)	BD Flange Dia. (mm)	AK Register (mm)	BF Hole (mm)	AJ Bolt Circle (mm)
71	175593.00	179	2	110	9	130	160
80	175594.00	216	3	130	12	165	200
90S/90L	175594.00	216	3	130	12	165	200
100L/112M	175595.00	337	5	180	15	215	250

Specifications are subject to change without notice

♥ Note listing on inside back flap

B14 Flange Kits (For Stainless DC Metric Motors)

IEC Frame	Catalog Number	List Price	App. Wgt. (lbs)	BD Flange Dia. (mm)	AK Register (mm)	BF Hole (mm)	AJ Bolt Circle (mm)
71	175596.00	136	1	70	6	85	105
80	175597.00	136	1	80	6	100	120
90S/90L	175598.00	371	1	95	6	115	140
100L/112M	175599.00	337	2	110	6	130	160

Specifications are subject to change without notice

♥ Note listing on inside back flap

View On-line Technical Information



IEC Motors

DC Motors

Gearmotors

AC / DC Controls

Accessories / Kits

Mods / Factory Options

X-Ref / Index

Tech Information

Terms / Warnings

Gearmotors

Quick Reference – Stock Sub-FHP Gearmotors

		AC Single & Three Phase	DC SCR & Low Voltage
	Parallel Shaft PZ Series Gearmotors	Single Phase 115V 12-100 In-Lbs Output Torque Page 332	DC SCR 90 & 180V 10-100 In-Lbs Output Torque Low Voltage (12V) 36-100 In-Lbs torque Page 312
		BODINE/BISON/DAYTON DIRECT INTERCHANGE	
	P240 & P300 Series Gearmotors	Single Phase 115/230V 43-391 In-Lbs Output Torque Page 334	DC SCR 90 & 180V 27-353 In-Lbs Output Torque Low Voltage (12V) 113-353 In-Lbs torque Page 314
		BISON/DAYTON DIRECT INTERCHANGE	
	OS300 Series Gearmotors		DC SCR 90V and Low Voltage (12V) Output Torque 130-268 In-Lbs Page 316
	PE350 Series Gearmotors	Single Phase 115/230V 25-341 In-Lbs Output Torque Three Phase 230/460V 55-320 In-Lbs Output Torque Page 336	DC SCR 90 & 180V 25-371 In-Lbs Output Torque Low Voltage (12V) 155-341 In-Lbs torque Page 318
		BODINE DIRECT INTERCHANGE	
	P1100 Series Gearmotors	Single Phase 115/230V 70-1105 In-Lbs Output Torque Three Phase 230/460V 70-1105 In-Lbs Output Torque Page 338	DC SCR 90V 105-1112 In-Lbs Output Torque Low Voltage (12V) 320-1087 In-Lbs torque Page 320
		BISON/DAYTON DIRECT INTERCHANGE	
	Right-Angle Worm Type 10 & 13 Series Gearmotors	Single Phase 115/230V 14-113 In-Lbs Output Torque Page 340	DC SCR 90 & 180V 5-135 In-Lbs Output Torque Low Voltage (12V) 25-135 In-Lbs torque Page 322
		BODINE/DAYTON DIRECT INTERCHANGE	
	Bravo Right Angle Worm Type 12 Series Gearmotors		DC SCR 90V and Low Voltage (12V) Output Torque 46-134 In-Lbs Page 324

Quick Reference – Stock Sub-FHP Washguard® Gearmotors



P300 Series
Gearmotors

DC SCR 90V
and
Low Voltage (12V)
Output Torque
44-353 In-Lbs
Page 326



PE350 Series
Gearmotors

DC SCR 90V
and
Low Voltage (12V)
Output Torque
25-341 In-Lbs
Page 328



Right-Angle
13 Series
Gearmotors

DC SCR 90V
and
Low Voltage (12V)
Output Torque
50-135 In-Lbs
Page 330



P240 Series
Gearmotors

AC – Single Phase &
Three Phase
Washdown Duty
60-391 In-Lbs
Output Torque
Page 335

BISON/DAYTON
DIRECT INTERCHANGE



Right-Angle
Worm Type
10 & 13 Series
Gearmotors

AC – Single Phase &
Three Phase
Washdown Duty
23-220 In-Lbs
Output Torque
Page 341

BODINE/DAYTON
DIRECT INTERCHANGE

Stock Sub-FHP Three Phase Inverter Rated Gearmotors



Includes gearmotor
series PZ, P240,
PE350 and 13 series
right-angle

Three Phase 230V
12-391 In-Lbs
Output Torque
Page 344

Gearmotors

Parallel Shaft - PZ Series - DC

SCR Rated - 10-100 In-Lbs Torque

Low Voltage - 36-100 In-Lbs Torque



General Specifications - SCR Rated Gearmotors:

- Performance matched for continuous duty service over 60:1 speed range
- Constant torque throughout the range when powered by a full-wave unfiltered SCR-type adjustable speed control having a typical form factor of 1.3 to 1.4

General Specifications - Low Voltage Gearmotors:

- Performance matched for continuous duty service
- Designed for battery power or can be used with a low voltage controller with form factor up to 1.05

Features:

- Precision machined in-line steel gears
- First stage steel helical gear followed by spur-type gears
- Lubrication is permanent semi-fluid grease, reducing possibility of leakage
- Output shafts have needle bearings for high load capacities
- Shafts are hardened steel
- Optional conduit box and PZ gearmotor mounting bracket available, see page 342

Application Notes:

- These gearmotors are designed for mounting at any angle, but motor below the reducer should be avoided to prevent leakage of lubricant into the motor should the motor shaft seal fail
- Motor's stall torque could exceed recommended full load torques. A current limiting device such as an SCR control should be used to prevent damage. This issue is even more critical for low voltage motors, typically no controller is used since motor is connected directly to a battery, so some type of current limit or fusing should be considered
- Overhung load capacities shown are at center of output shaft
- Model PZ gearmotors have the same mounting dimensions as Bodine model D and Z, Baldor/Boehm, Bison 100 gearmotors, and a number of Dayton gearmotors
- For additional information, see Bulletin 1830
- **Bodine/Baldor/Boehm/Bison/Dayton direct interchange**

90 & 180 Volts - TENV - PZ Series

Output RPM	F.L. Torque (Lb.In.)	Input HP	Catalog Number	Stock	List Price	Model Number	Gearmotor Type & Frame	Ratio to 1	Arm. Volts DC	F.L. Amps DC	Over-hung Load (lb.)	Dimensions (inches)				♥ Notes
												P	X	XL	XH	
4	40	1/40	M1115002.00	✓	513	985.620	PZ5-30A	450	90	0.5	155	3.00	3.25	9.28	7.72	S, US
	40	1/40	M1125046.00	✓	513	985.623	PZ5-30A	450	180	0.2	155	3.00	3.25	9.30	7.74	S, US
10	100	1/20	M1115001.00	✓	513	985.621	PZ4-30E	180	90	0.5	155	3.00	3.25	9.28	7.72	S, US
	100	1/20	M1125047.00	C/A	513	985.624	PZ4-30A	180	180	0.3	155	3.00	3.25	9.30	7.74	S, US
20	100	1/20	M1115000.00	✓	513	985.622	PZ4-30E	90	90	0.5	155	3.00	3.25	9.28	7.72	S, US
	100	1/20	M1125048.00	C/A	513	985.625	PZ4-30A	90	180	0.3	155	3.00	3.25	9.30	7.74	S, US
30	100	1/17	M1125002.00	✓	558	985.627	PZ3-30B	60	90	0.8	155	3.00	2.68	8.74	7.18	S, US
	100	1/17	M1125037.00	✓	558	985.635	PZ3-30B	60	180	0.4	155	3.00	2.68	8.74	7.18	S, US
60	56	1/17	M1125003.00	✓	558	985.628	PZ3-30B	30	90	0.8	171	3.00	2.68	8.74	7.18	S, US
	56	1/17	M1125036.00	✓	558	985.634	PZ3-30B	30	180	0.4	171	3.00	2.68	8.74	7.18	S, US
100	36	1/17	M1125004.00	✓	558	985.626	PZ3-30B	18	90	0.8	171	3.00	2.68	8.74	7.18	S, US
	36	1/17	M1125035.00	✓	558	985.631	PZ3-30B	18	180	0.4	171	3.00	2.68	8.74	7.18	S, US
150	24	1/17	M1125005.00	✓	530	985.629	PZ2-30B	12	90	0.8	180	3.00	2.40	8.46	6.90	S, US
	24	1/17	M1125034.00	✓	530	985.633	PZ2-30B	12	180	0.4	180	3.00	2.40	8.46	6.90	S, US
300	10	1/17	M1125006.00	✓	530	985.630	PZ2-30B	6	90	0.8	180	3.00	2.40	8.46	6.90	S, US
	10	1/17	M1125033.00	✓	530	985.632	PZ2-30B	6	180	0.4	180	3.00	2.40	8.46	6.90	S, US

C/A - Check Availability

Specifications are subject to change without notice

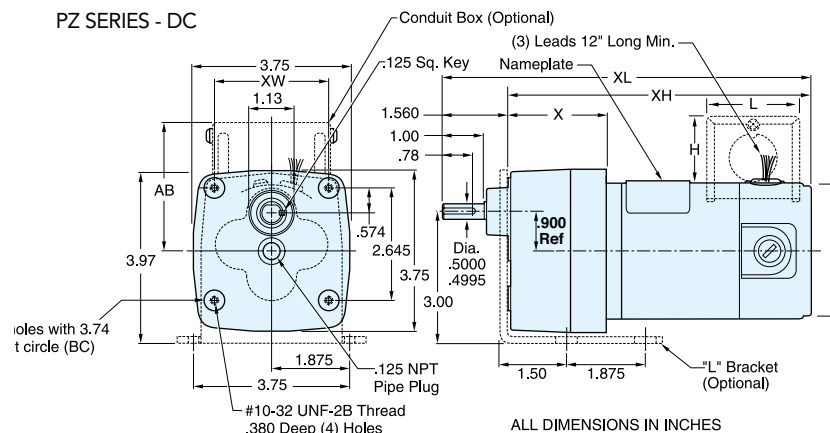
♥ Note listing on inside back flap

12 Volts - TENV - PZ Series

Output RPM	F.L. Torque (Lb.In.)	Input HP	Catalog Number	Stock	List Price	Model Number	Gearmotor Type & Frame	Ratio to 1	Arm. Volts DC	F.L. Amps DC	Over- hung Load (lb.)	Dimensions (inches)				♥ Notes
												P	X	XL	XH	
10	100	1/20	M1125213.00	√	568	985.653	PZ4-30	180	12	2.7	155	3.00	3.25	9.28	7.72	S, US
30	100	1/17	M1125214.00	√	603	985.654	PZ3-30	60	12	5.2	155	3.00	2.68	8.74	7.18	S, US
55	56	1/17	M1125215.00	√	603	985.655	PZ3-30	30	12	5.6	171	3.00	2.68	8.74	7.18	S, US

Specifications are subject to change without notice

♥ Note listing on inside back flap



Conduit Box Dimensions (IN)

Frame	XW	AB	H	L
30/31	2.63	3.47	1.90	3.13

[View On-line Technical Information](#)



Gearmotors

Parallel Shaft - P300 Series - DC

SCR Rated - 27-353 In-Lbs. Torque

Low Voltage - 113-353 In-Lbs Torque



General Specifications - SCR Rated Gearmotors:

- Performance matched for continuous duty service over 60:1 speed range
- Constant torque throughout the range when powered by a full-wave unfiltered SCR-type adjustable speed control having a typical form factor of 1.3 to 1.4

General Specifications - Low Voltage Gearmotors:

- Performance matched for continuous duty service
- Designed for battery power or can be used with a low voltage controller with form factor up to 1.05

Features:

- Precision machined in-line steel gears
- First stage steel helical gear followed by spur-type gears
- Lubrication is permanent semi-fluid grease, reducing possibility of leakage
- Output shafts have needle bearings for high load capacities
- Shafts are hardened steel
- Optional conduit box available, see page 342

Application Notes:

- These gearmotors are designed for mounting at any angle, but motor below the reducer should be avoided to prevent leakage of lubricant into the motor should the motor shaft seal fail
- Motor's stall torque could exceed recommended full load torques. A current limiting device such as an SCR control should be used to prevent damage. This issue is even more critical for low voltage motors, typically no controller is used since motor is connected directly to a battery, so some type of current limit or fusing should be considered
- Overhung load capacities shown are at center of output shaft
- For additional information, see Bulletin 1830
- **Bison/Dayton direct interchange**

SCR Rated - 27-353 In-Lbs. Torque
Low Voltage - 113-353 In-Lbs Torque

90 & 180 Volts - TENV - P300 Series

Output RPM	F.L. Torque (Lb.In.)	Input HP	Catalog Number	Stock	List Price	Model Number	Gearmotor Type & Frame	Ratio to 1	Arm. Volts DC	F.L. Amps DC	Over-hung Load (lb.)	Dimensions (inches)				♥Notes
												P	X	XL	XH	
5	353	1/20	M1115024.00	✓	735	985.602	P303-30E	336	90	0.5	565	3.00	3.54	10.07	8.57	S, US
9	268	1/20	M1115025.00	✓	735	985.603	P303-30E	216	90	0.5	474	3.00	3.54	10.07	8.57	S, US
18	150	1/20	M1115026.00	✓	735	985.604	P303-30E	103	90	0.5	385	3.00	3.54	10.07	8.57	S, US
20	140	1/20	M1125092.00	✓	754	985.607	P303-31E	90	180	0.3	370	3.11	3.54	10.07	8.57	S, US
24	280	1/8	M1125069.00	✓	754	985.611	P303-30E	76	90	1.3	353	3.00	3.54	11.54	10.04	S, US
31	220	1/8	M1125070.00	✓	754	985.612	P303-30E	58	90	1.3	327	3.00	3.54	11.54	10.04	S, US
31	220	1/8	M1125038.00	✓	754	985.617	P303-30E	58	180	0.7	327	3.00	3.54	11.54	10.04	S, US
34	82	1/20	M1115027.00	✓	735	985.605	P303-30E	52	90	0.5	318	3.00	3.54	10.07	8.57	S, US
51	130	1/8	M1125071.00	✓	693	985.615	P302-30E	35	90	1.3	277	3.00	3.54	11.54	10.04	S, US
51	130	1/8	M1125039.00	✓	693	985.614	P302-30E	35	180	0.7	277	3.00	3.54	11.54	10.04	S, US
51	55	1/20	M1115028.00	✓	677	985.606	P302-30E	35	90	0.5	281	3.00	3.54	10.07	8.57	S, US
61	113	1/8	M1125072.00	✓	693	985.610	P302-30E	29	90	1.3	267	3.00	3.54	11.54	10.04	S, US
60	45	1/20	M1125093.00	✓	693	985.609	P302-31E	29	180	0.3	267	3.11	3.54	10.07	8.57	S, US
94	77	1/8	M1125073.00	✓	693	985.613	P302-30E	19	90	1.3	236	3.00	3.54	11.54	10.04	S, US
94	77	1/8	M1125040.00	✓	693	985.618	P302-30E	19	180	0.7	236	3.00	3.54	11.54	10.04	S, US
109	27	1/20	M1115029.00	✓	677	985.601	P302-30E	16	90	0.5	224	3.00	3.54	10.07	8.57	S, US
106	26	1/20	M1125094.00	C/A	677	985.608	P302-31E	16	180	0.3	222	3.11	3.54	10.07	8.57	S, US
167	43	1/8	M1125074.00	✓	693	985.616	P302-30E	11	90	1.3	197	3.00	3.54	11.54	10.04	S, US
170	43	1/8	M1125041.00	✓	693	985.619	P302-30E	11	180	0.7	196	3.00	3.54	11.54	10.04	S, US

C/A - Check Availability

♥ Note listing on inside back flap

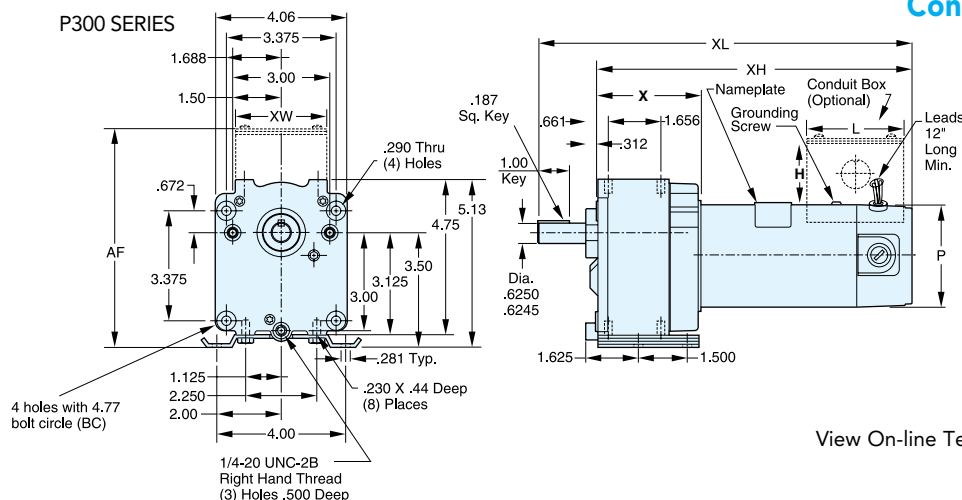
Specifications are subject to change without notice

12 Volt - TENV - P300 Series

Output RPM	F.L. Torque (Lb.In.)	Input HP	Catalog Number	Stock	List Price	Model Number	Gearmotor Type & Frame	Ratio to 1	Arm. Volts DC	F.L. Amps DC	Over-hung Load (lb.)	Dimensions (inches)				♥Notes
												P	X	XL	XH	
5	353	1/20	M1125217.00	✓	754	985.657	P303-30	336	12.0	5.6	565	3.00	3.85	10.07	8.57	S, US
31	220	1/8	M1125218.00	✓	772	985.658	P303-30	58	12.0	10.6	327	3.00	3.54	11.54	10.04	S, US
51	130	1/8	M1125219.00	✓	710	985.659	P302-30	35	12.0	10.3	277	3.00	3.23	11.54	10.04	S, US
61	113	1/8	M1125220.00	✓	710	985.660	P302-30	29	12.0	10.4	267	3.00	3.23	11.54	10.04	S, US

Specifications are subject to change without notice

♥ Note listing on inside back flap



Conduit Box Dimensions (IN.)

Frame	AF	XW	H	L
30/31	6.26	2.63	1.90	3.13

View On-line Technical Information



Gearmotors

Off-Set Shaft Gearmotors - OS300 Series - DC

SCR Rated - 130-268 In-Lbs. Torque

Low Voltage - 130-268 In-Lbs. Torque



General Specifications - SCR Rated Gearmotors:

- Performance matched for continuous duty service over 60:1 speed range
- Constant torque throughout the range when powered by a full-wave unfiltered SCR-type adjustable speed control having a typical form factor of 1.3 to 1.4

General Specifications - Low Voltage Gearmotors:

- Performance matched for continuous duty service
- Designed for battery power or can be used with a low voltage controller with form factor up to 1.05

Features:

- Precision machined in-line steel gears
- First stage steel helical gear followed by spur-type gears
- Lubrication is permanent semi-fluid grease, reducing possibility of leakage
- Output shafts have needle bearings for high load capacities
- Shafts are hardened steel
- Optional conduit box available, see page 342

Application Notes:

- These gearmotors are designed for mounting at any angle, but motor below the reducer should be avoided to prevent leakage of lubricant into the motor should the motor shaft seal fail
- Motor's stall torque could exceed recommended full load torques. A current limiting device such as an SCR control should be used to prevent damage. This issue is even more critical for low voltage motors, typically no controller is used since motor is connected directly to a battery, so some type of current limit or fusing should be considered
- Overhung load capacities shown are at center of output shaft

Off-Set Shaft Gearmotors - OS300 Series - DC

**SCR Rated - 130-268 In-Lbs. Torque
Low Voltage - 130-268 In-Lbs. Torque**

90 Volts - TENV - OS300 Series

Output RPM	F.L. Torque (Lb.In.)	Input HP	Catalog Number	Stock	List Price	Model Number	Gearmotor Type & Frame	Ratio to 1	Arm. Volts DC	F.L. Amps DC	Overhung Load (lb.)	Dimensions (inches)				♥ Notes
												P	X	XL	XH	
9	268	1/20	M1125251.00	C/A	620	985.692	OS303-30	210	90	0.5	474	3.00	2.81	4.5	8.52	S, US
19	150	1/20	M1125250.00	✓	620	985.691	OS303-30	103	90	0.6	385	3.00	2.81	4.5	8.52	S, US
24	280	1/8	M1125249.00	✓	636	985.690	OS303-30	76	90	1.3	353	3.00	2.81	6.42	10.45	S, US
31	220	1/8	M1125248.00	✓	636	985.689	OS303-30	58	90	1.4	327	3.00	2.81	6.42	10.45	S, US
51	130	1/8	M1125247.00	✓	636	985.688	OS303-30	35	90	1.4	277	3.00	2.81	6.42	10.45	S, US

C/A - Check Availability

Specifications are subject to change without notice

♥ Note listing on inside back flap

12 Volts - TENV - OS300 Series

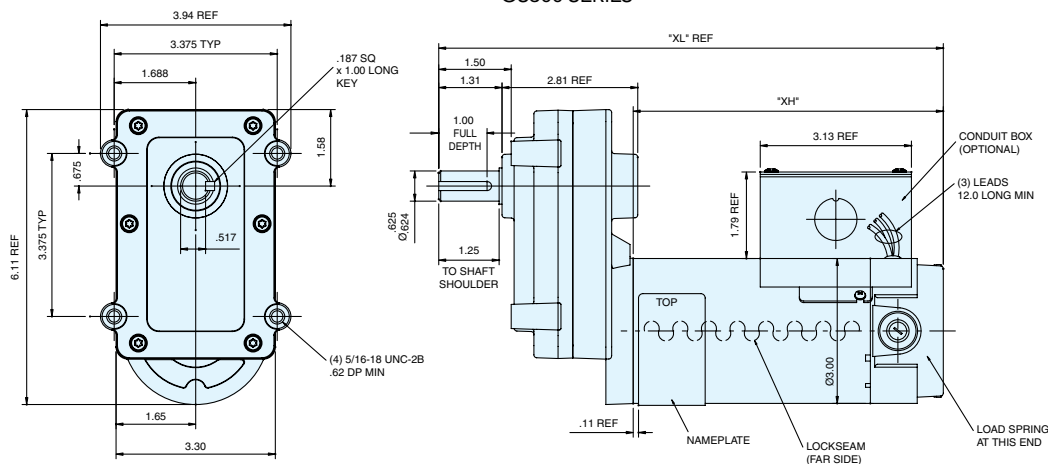
Output RPM	F.L. Torque (Lb.In.)	Input HP	Catalog Number	Stock	List Price	Model Number	Gearmotor Type & Frame	Ratio to 1	Arm. Volts DC	F.L. Amps DC	Overhung Load (lb.)	Dimensions (inches)				♥ Notes
												P	X	XL	XH	
9	268	1/20	M1125256.00	C/A	636	985.697	OS303-30	210	12	4.5	474	3.00	2.81	4.5	8.52	S, US
18	150	1/20	M1125255.00	C/A	636	985.696	OS303-30	103	12	5.0	385	3.00	2.08	4.5	8.52	S, US
24	280	1/8	M1125254.00	✓	651	985.695	OS303-30	76	12	10.6	353	3.00	2.81	6.42	10.45	S, US
31	220	1/8	M1125253.00	✓	651	985.694	OS303-30	58	12	10.6	327	3.00	2.81	6.42	10.45	S, US
51	130	1/8	M1125252.00	✓	651	985.693	OS303-30	35	12	10.3	277	3.00	2.81	6.42	10.45	S, US

C/A - Check Availability

Specifications are subject to change without notice

♥ Note listing on inside back flap

OS300 SERIES



ALL DIMENSIONS IN INCHES

View On-line Technical Information



Gearmotors

PE350 Series - Parallel Shaft - DC

SCR Rated - 25-371 In-Lbs. Torque

Low Voltage - 155-341 In-Lbs Torque



General Specifications - SCR Rated Gearmotors:

- Performance matched for continuous duty service over 60:1 speed range
- Constant torque throughout the range when powered by a full-wave unfiltered SCR-type adjustable speed control having a typical form factor of 1.3 to 1.4

General Specifications - Low Voltage Gearmotors:

- Performance matched for continuous duty service
- Designed for battery power or can be used with a low voltage controller with form factor up to 1.05

Features:

- Rugged die cast aluminum gear housing for maximum gear and bearing support
- Precision machined gearing, hardened for maximum load capability
- All gearing designed and rated to AGMA class 9 standards, and to withstand momentary shock overload of 200%
- Oversized output bearings for greater overhung load capacity and long life
- High carbon alloy output shaft provides maximum strength and rigidity
- All needle bearing journals are precision ground after heat treating to provide maximum fit and finish
- Heavy duty industrial oil seals keep lubricant in and dirt out
- Gears and bearings are splash lubricated with permanent, heavy duty gear oil
- Optional conduit box available, see page 342

Application Notes:

- These gearmotors are designed for mounting at any angle, but motor below the reducer should be avoided to prevent leakage of lubricant into the motor should the motor shaft seal fail
- Motor's stall torque could exceed recommended full load torques. A current limiting device such as an SCR control should be used to prevent damage. This issue is even more critical for low voltage motors, typically no controller is used since motor is connected directly to a battery, so some type of current limit or fusing should be considered
- Overhung load capacities shown are at center of output shaft
- **Bodine/Baldor direct interchange**

SCR Rated - 25-371 In-Lbs. Torque
Low Voltage - 155-341 In-Lbs Torque

90 & 180 Volts - TENV - PE350 Series

Output RPM	F.L. Torque (Lb.In.)	Input HP	Catalog Number	Stock	List Price	Model Number	Gearmotor Type & Frame	Ratio to 1	Arm. Volts DC	F.L. Amps DC	Overhung Load (lb.)	Dimensions (inches)		♥Notes
												XL	XH	
7	330	1/8	M1135106.00	✓	743	M34D25NZ62	P353-34	336	90	0.7	565	11.31	9.31	S, US
	330	1/8	M1135139.00	✓	743	M34D25NZ71	P353-34	336	180	0.4	565	11.31	9.31	S, US
14	341	1/8	M1135107.00	✓	743	M34D25NZ61	P353-34	180	90	1.0	465	11.31	9.31	S, US
	341	1/8	M1135140.00	✓	743	M34D25NZ72	P353-34	180	180	0.5	465	11.31	9.31	S, US
21	371	1/4	M1135117.00	✓	778	M34D25NZ52	P353-34	124	90	1.1	413	13.31	11.31	S, US
	371	1/4	M1135141.00	✓	778	M34D25NZ73	P353-34	124	180	0.6	413	13.31	11.31	S, US
27	305	1/4	M1135115.00	✓	778	M34D25NZ51	P353-34	91	90	1.5	374	13.31	11.31	S, US
	305	1/4	M1135142.00	✓	778	M34D25NZ74	P353-34	91	180	0.8	374	13.31	11.31	S, US
42	280	1/4	M1135108.00	✓	778	M34D25NZ53	P353-34	58	90	2.3	327	13.31	11.31	S, US
	280	1/4	M1135143.00	✓	778	M34D25NZ75	P353-34	58	180	1.2	327	13.31	11.31	S, US
50	250	1/4	M1135109.00	✓	778	M34D25NZ54	P353-34	50	90	2.3	315	13.31	11.31	S, US
	250	1/4	M1135144.00	✓	778	M34D25NZ76	P353-34	50	180	1.2	315	13.31	11.31	S, US
62	220	1/4	M1135110.00	✓	778	M34D25NZ55	P353-34	43	90	2.3	303	13.31	11.31	S, US
	220	1/4	M1135145.00	✓	778	M34D25NZ77	P353-34	43	180	1.2	303	13.31	11.31	S, US
83	155	1/4	M1135114.00	✓	735	M34D25NZ57	P352-34	29	90	2.3	267	13.31	11.31	S, US
	155	1/4	M1135146.00	✓	735	M34D25NZ78	P352-34	29	180	1.2	267	13.31	11.31	S, US
125	100	1/4	M1135111.00	✓	735	M34D25NZ56	P352-34	23	90	2.0	256	13.31	11.31	S, US
	100	1/4	M1135147.00	✓	735	M34D25NZ79	P352-34	23	180	1.0	256	13.31	11.31	S, US
165	70	1/4	M1135112.00	✓	735	M34D25NZ58	P352-34	15	90	2.0	232	13.31	11.31	S, US
	70	1/4	M1135148.00	✓	735	M34D25NZ80	P352-34	15	180	1.0	232	13.31	11.31	S, US
250	45	1/4	M1135116.00	✓	735	M34D25NZ60	P352-34	10	90	2.0	201	13.31	11.31	S, US
	45	1/4	M1135149.00	✓	735	M34D25NZ81	P352-34	10	180	1.0	201	13.31	11.31	S, US
500	25	1/4	M1135113.00	✓	735	M34D25NZ59	P352-34	5	90	2.0	194	13.31	11.31	S, US
	25	1/4	M1135150.00	✓	735	M34D25NZ82	P352-34	5	180	1.0	194	13.31	11.31	S, US

Specifications are subject to change without notice

♥ Note listing on inside back flap

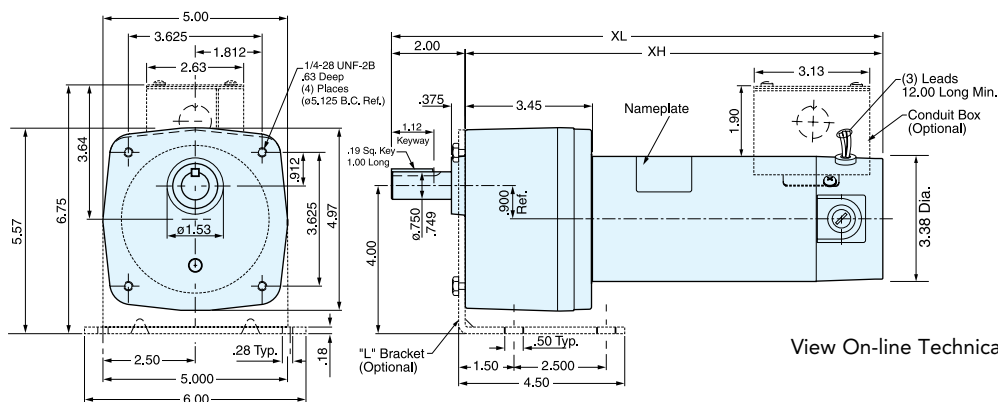
12 Volts - TENV - PE350 Series

Output RPM	F.L. Torque (Lb.In.)	Input HP	Catalog Number	Stock	List Price	Model Number	Gearmotor Type & Frame	Ratio to 1	Arm. Volts DC	F.L. Amps DC	Overhung Load (lb.)	Dimensions (inches)		♥Notes
												XL	XH	
14	341	1/8	M1135243.00	✓	758	M34D25NZ154	P353-34	180	12	8.7	465	11.05	9.05	S, US
42	325	1/4	M1135244.00	✓	795	M34D25NZ155	P353-34	58	12	21.0	327	13.31	11.31	S, US
62	220	1/4	M1135245.00	✓	795	M34D25NZ156	P353-34	43	12	21.0	303	13.31	11.31	S, US
83	155	1/4	M1135246.00	✓	754	M34D25NZ157	P352-34	29	12	21.0	267	13.31	11.31	S, US

Specifications are subject to change without notice

♥ Note listing on inside back flap

PE350 SERIES - DC



ALL DIMENSIONS IN INCHES

View On-line Technical Information



Gearmotors

Parallel Shaft - P1100 Series - DC

SCR Rated - 105-1112 In-Lbs. Torque

Low Voltage - 320-1087 In-Lbs. Torque



General Specifications - SCR Rated Gearmotors:

- Performance matched for continuous duty service over 60:1 speed range
- Constant torque throughout the range when powered by a full-wave unfiltered SCR-type adjustable speed control having a typical form factor of 1.3 to 1.4

General Specifications - Low Voltage Gearmotors:

- Performance matched for continuous duty service
- Designed for battery power or can be used with a low voltage controller with form factor up to 1.05

Features:

- Rugged die cast aluminum gear housing for maximum gear and bearing support
- Precision machined gearing, hardened for maximum load capability
- All gearing designed and rated to AGMA class 9 standards, and to withstand momentary shock overload of 200%
- Oversized output bearings for greater overhung load capacity and long life
- High carbon alloy output shaft provides maximum strength and rigidity
- All needle bearing journals are precision ground after heat treating to provide maximum fit and finish
- Heavy duty industrial oil seals keep lubricant in and dirt out
- Gears and bearings are splash lubricated with permanent, heavy duty gear oil
- Conduit box included as standard

Application Notes:

- These gearmotors are designed for mounting at any angle, but motor below the reducer should be avoided to prevent leakage of lubricant into the motor should the motor shaft seal fail
- Motor's stall torque could exceed recommended full load torques. A current limiting device such as an SCR control should be used to prevent damage. This issue is even more critical for low voltage motors, typically no controller is used since motor is connected directly to a battery, so some type of current limit or fusing should be considered
- Overhung load capacities shown are at center of output shaft
- For additional information, see Bulletin 1830
- **Bison/Dayton direct interchange**

SCR Rated - 105-1112 In-Lbs. Torque
Low Voltage - 320-1087 In-Lbs. Torque

90 Volts - Totally Enclosed - Rigid Base - P1100 Series

Output RPM	F.L. Torque (Lb.In.)	Input HP	Catalog Number	Stock	List Price	Model Number	Gearmotor Type & Frame	Ratio to 1	Arm. Volts DC	F.L. Amps DC	Over-hung Load (lb.)	Dimensions (inches)		♥Notes
												XL	XH	
8	1087	1/4	108700.00	✓	1,266	4D17NZ17	P1103-48	212	90	2.7	700	14.24	12.74	S, US, 12
12	1030	1/4	108701.00	✓	1,266	4D17NZ18	P1103-48	143	90	2.7	700	14.24	12.74	S, US, 12
18	750	1/4	108702.00	✓	1,266	4D17NZ19	P1103-48	95	90	2.7	700	14.24	12.74	S, US, 12
42	353	1/4	108703.00	✓	1,235	4D17NZ20	P1102-48	42	90	2.7	650	14.24	12.74	S, US, 12
60	238	1/4	108704.00	✓	1,235	4D17NZ21	P1102-48	29	90	2.7	625	14.24	12.74	S, US, 12
92	160	1/4	108705.00	✓	1,235	4D17NZ22	P1102-48	19	90	2.7	575	14.24	12.74	S, US, 12
135	105	1/4	108706.00	✓	1,235	4D17NZ23	P1102-48	13	90	2.7	525	14.24	12.74	S, US, 12
18	1112	1/2	108707.00	✓	1,368	4D17FZ23	P1103-48	95	90	5.0	700	16.49	14.99	S, US
33	822	1/2	108708.00	✓	1,368	4D17FZ24	P1103-48	53	90	5.0	650	16.49	14.99	S, US
42	705	1/2	108709.00	✓	1,343	4D17FZ25	P1102-48	42	90	5.0	650	16.49	14.99	S, US
60	476	1/2	108710.00	✓	1,343	4D17FZ26	P1102-48	29	90	5.0	625	16.49	14.99	S, US
92	320	1/2	108711.00	✓	1,343	4D17FZ27	P1102-48	19	90	5.0	575	16.49	14.99	S, US
135	210	1/2	108712.00	✓	1,343	4D17FZ28	P1102-48	13	90	5.0	525	16.49	14.99	S, US

Note 12 - TENV

♥ Note listing on inside back flap

Specifications are subject to change without notice

12 Volts - Totally Enclosed - Rigid Base - P1100 Series

Output RPM	F.L. Torque (Lb.In.)	Input HP	Catalog Number	Stock	List Price	Model Number	Gearmotor Type & Frame	Ratio to 1	Arm. Volts DC	F.L. Amps DC	Over-hung Load (lb.)	Dimensions (inches)		♥Notes
												XL	XH	
8	1087	1/4	108729.00	✓	1,293	4D17NZ43	P1103-48	212	12	21.0	700	13.74	12.24	S, US, 12
60	238	1/4	108730.00	✓	1,265	4D17NZ44	P1102-48	29	12	21.0	625	13.74	12.24	S, US, 12
42	705	1/2	108731.00	✓	1,368	4D17FZ52	P1102-48	42	12	40.0	650	15.99	14.49	S, US
92	320	1/2	108732.00	C/A	1,368	4D17FZ53	P1102-48	19	12	40.0	575	15.99	14.49	S, US

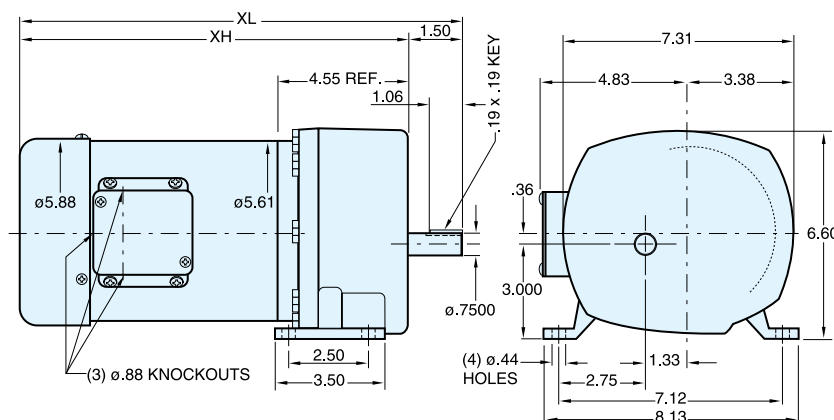
C/A - Check Availability

♥ Note listing on inside back flap

Note 12 - TENV

Specifications are subject to change without notice

P1100 SERIES - DC



ALL DIMENSIONS IN INCHES

View On-line Technical Information



Gearmotors

Right-Angle DC Gearmotors

SCR Rated - 5-135 In-Lbs. Torque

Low Voltage - 25-135 In-Lbs. Torque



General Specifications - SCR Rated Gearmotors:

- Performance matched for continuous duty service over 60:1 speed range
- Constant torque throughout the range when powered by a full-wave unfiltered SCR-type adjustable speed control having a typical form factor of 1.3 to 1.4

General Specifications - Low Voltage Gearmotors:

- Performance matched for continuous duty service
- Designed for battery power or can be used with a low voltage controller with form factor up to 1.05

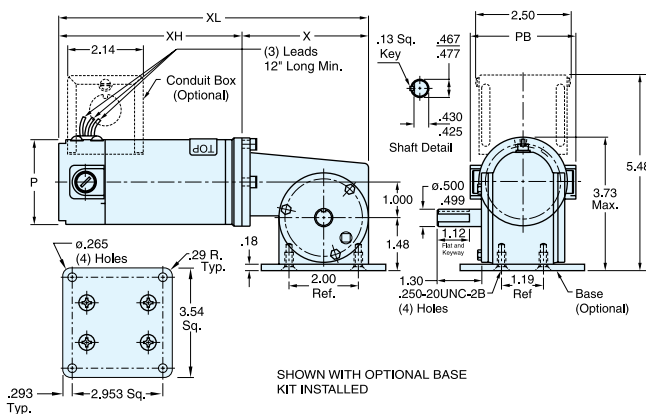
Features:

- Worm-type right-angle gearing features hardened, steel worm with bronze worm wheel for long life and quiet operation
- Precision machined aluminum gear housing
- Lubrication is permanent with an oil bath
- Gearbox has all ball bearings
- Output shaft is field interchangeable from left hand to right hand style by reassembly
- Double output shaft available as a factory option
- Optional conduit box available, see page 342
- Optional gearbox base available (10 Series only), see page 342

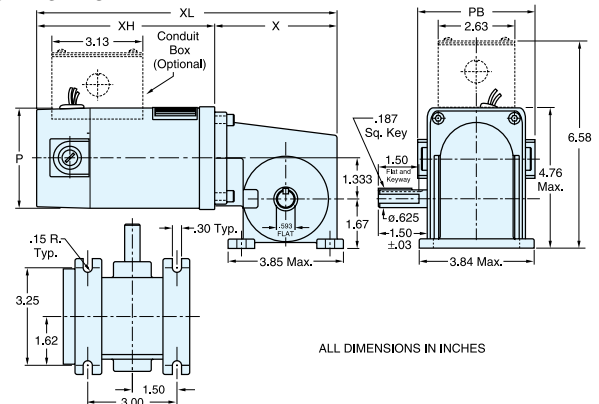
Application Notes:

- These right-angle gearmotors have a lubrication breather positioned for horizontal mounting. For other mountings, the breather plug must be reoriented by using a 90 deg 1/8" NPT taper pipe elbow (See drawing). Elbow not available from LEESON
- These gearmotors are designed for mounting at any angle, but motor below the reducer should be avoided to prevent leakage of lubricant into the motor should the motor shaft seal fail
- Overhung load capacities shown are at center of output shaft
- For additional information, see Bulletin 1830

10 SERIES - DC



13 SERIES - DC



ALL DIMENSIONS IN INCHES



Right-Angle DC Gearmotors

SCR Rated - 5-135 In-Lbs. Torque & Low Voltage - 25-135 In-Lbs. Torque

90 & 180 Volts - TENV - Right-Angle

Output RPM	F.L. Torque (Lb.In.)	Input HP	Catalog Number	Stock	List Price	Model Number	Gearmotor Type & Frame	Ratio to 1	Arm. Volts DC	F.L. Amps DC	Over-hung Load (lb.)	Dimensions (inches)					Notes
												P	PB	X	XL	XH	
42	22	1/17	M1115018.00	✓	575	985.504	10F60-25D	60	90	0.9	185	2.50	3	3.6	8.79	5.19	S, US
62	19	1/17	M1115019.00	✓	575	985.505	10F40-25D	40	90	0.9	185	2.50	3	3.6	8.79	5.19	S, US
125	16	1/17	M1115020.00	✓	575	985.506	10F20-25D	20	90	0.9	185	2.50	3	3.6	8.79	5.19	S, US
250	10	1/17	M1115021.00	✓	575	985.509	10F10-25D	10	90	1.0	185	2.50	3	3.6	8.79	5.19	S, US
500	5	1/17	M1115022.00	✓	575	985.507	10F05-25D	5	90	1.0	185	2.50	3	3.6	8.79	5.19	S, US
42	30	1/12	M1135053.00	✓	575	M34D25NZ30	13F60-34A	60	180	0.5	235	3.38	4	4.5	9.64	5.14	S, US
62	35	1/12	M1135054.00	C/A	575	M34D25NZ31	13F40-34A	40	180	0.5	235	3.38	4	4.5	9.64	5.14	S, US
125	18	1/12	M1135055.00	✓	575	CM34D25NZ32	13F20-34A	20	180	0.5	235	3.38	4	4.5	9.64	5.14	S, US
250	10	1/12	M1135056.00	C/A	575	M34D25NZ47	13F10-34A	10	180	0.5	235	3.38	4	4.5	9.64	5.14	S, US
500	5	1/12	M1135057.00	C/A	575	M34D25NZ48	13F05-34A	5	180	0.5	235	3.38	4	4.5	9.64	5.14	S, US
42	80	1/8	M1135069.00	✓	663	M34D25NZ18	13F60-34C	60	90	1.4	235	3.38	4	4.5	10.64	6.14	S, US
62	70	1/8	M1135038.00	✓	663	M34D25NZ6	13F40-34C	40	90	1.4	235	3.38	4	4.5	10.64	6.14	S, US
62	70	1/8	M1135058.00	✓	663	M34D25NZ26	13F40-34C	40	180	0.7	235	3.38	4	4.5	10.64	6.14	S, US
125	45	1/8	M1135039.00	✓	663	M34D25NZ7	13F20-34C	20	90	1.4	235	3.38	4	4.5	10.64	6.14	S, US
125	45	1/8	M1135059.00	✓	663	M34D25NZ27	13F20-34C	20	180	0.7	235	3.38	4	4.5	10.64	6.14	S, US
250	25	1/8	M1135040.00	✓	663	M34D25NZ8	13F10-34C	10	90	1.4	235	3.38	4	4.5	10.64	6.14	S, US
250	25	1/8	M1135060.00	✓	663	M34D25NZ28	13F10-34C	10	180	0.7	235	3.38	4	4.5	10.64	6.14	S, US
500	13	1/8	M1135041.00	✓	663	M34D25NZ9	13F05-34C	5	90	1.4	235	3.38	4	4.5	10.64	6.14	S, US
500	13	1/8	M1135061.00	C/A	663	M34D25NZ29	13F05-34C	5	180	0.7	235	3.38	4	4.5	10.64	6.14	S, US
62	135	1/4	M1135042.00	✓	715	M34D25NZ10	13F40-34G	40	90	2.3	235	3.38	4	4.5	12.64	8.14	S, US
62	135	1/4	M1135062.00	✓	715	M34D25NZ33	13F40-34G	40	180	1.3	235	3.38	4	4.5	12.64	8.14	S, US
83	125	1/4	M1135043.00	✓	715	M34D25NZ11	13F30-34G	30	90	2.3	235	3.38	4	4.5	12.64	8.14	S, US
83	125	1/4	M1135063.00	✓	715	M34D25NZ34	13F30-34G	30	180	1.3	235	3.38	4	4.5	12.64	8.14	S, US
125	90	1/4	M1135044.00	✓	715	M34D25NZ12	13F20-34G	20	90	2.3	235	3.38	4	4.5	12.64	8.14	S, US
125	90	1/4	M1135064.00	✓	715	M34D25NZ35	13F20-34G	20	180	1.3	235	3.38	4	4.5	12.64	8.14	S, US
250	50	1/4	M1135045.00	✓	715	M34D25NZ13	13F10-34G	10	90	2.3	235	3.38	4	4.5	12.64	8.14	S, US
250	50	1/4	M1135065.00	✓	715	M34D25NZ36	13F10-34G	10	180	1.3	235	3.38	4	4.5	12.64	8.14	S, US
500	30	1/4	M1135046.00	✓	715	M34D25NZ14	13F05-34G	5	90	2.3	235	3.38	4	4.5	12.64	8.14	S, US
500	30	1/4	M1135066.00	✓	715	M34D25NZ37	13F05-34G	5	180	1.3	235	3.38	4	4.5	12.64	8.14	S, US

C/A - Check Availability

♥ Note listing on inside back flap

Specifications are subject to change without notice

12 Volts - TENV - Right-Angle Series

Output RPM	F.L. Torque (Lb.In.)	Input HP	Catalog Number	Stock	List Price	Model Number	Gearmotor Type & Frame	Ratio to 1	Arm. Volts DC	F.L. Amps DC	Over-hung Load (lb.)	Dimensions (inches)					Notes
												P	PB	X	XL	XH	
42	80	1/8	M1135249.00	C/A	677	M34D25NZ158	13F60-34	60	12	11.0	235	3.38	4.21	4.5	10.39	5.89	S, US
250	25	1/8	M1135250.00	✓	677	M34D25NZ159	13F10-34	10	12	11.0	235	3.38	4.21	4.5	10.39	5.89	S, US
62	135	1/4	M1135251.00	✓	724	M34D25NZ160	13F40-34	40	12	21.0	235	3.38	4.21	4.5	12.64	8.14	S, US
125	90	1/4	M1135252.00	✓	724	M34D25NZ161	13F20-34	20	12	21.0	235	3.38	4.21	4.5	12.64	8.14	S, US

C/A - Check Availability

♥ Note listing on inside back flap

Specifications are subject to change without notice

View On-line Technical Information



IEC Motors

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Gearmotors

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Gearmotors

Bravo™ Series 12 SUB-FHP - DC Right-Angle Gearmotors



General Specifications - SCR Rated Gearmotors:

- Performance matched for continuous duty service over 60:1 speed range
- Constant torque throughout the range when powered by a full-wave unfiltered SCR-type adjustable speed control having a typical form factor of 1.3 to 1.4

General Specifications - Low Voltage Gearmotors:

- Performance matched for continuous duty service
- Designed for battery power or can be used with a low voltage controller with form factor up to 1.05

Features:

- Worm-type right-angle gearing features hardened, steel worm with bronze worm wheel for long life and quiet operation
- Single piece die cast aluminum alloy housing is vacuum impregnated with Resinol RT for protection and sealing
- Light weight gearbox combines high tensile strength along with being precision machined for alignment of bearings and gearing
- High temperature Nitrile seals for optimum seal life
- Gearbox provided with solid output shaft, but can be converted to a hollow output shaft. Simply remove the solid shaft by removing the Snap rings
- T-base feet provided are removable to convert to face mounting
- Optional conduit box available, see page 342

Bravo™ Series 12 SUB-FHP - DC Right-Angle Gearmotors

90 Volts - Totally Enclosed - Right-Angle

Output RPM	F.L. Torque (Lb.In.)	Input HP	Catalog Number	Stock	List Price	Model Number	Enclosure	Gearmotor Type & Frame	Ratio to 1	Arm. Volts DC	F.L. Amps. DC	♥Notes
28	125	1/8	M1135292.00	✓	678	M34D17NZ31	TENV	12B60-34D	61	90	1.6	S, US, 12
45	87	1/8	M1135291.00	C/A	678	M34D17NZ30	TENV	12B39-34D	39	90	1.6	S, US, 12
58	158	1/4	M1135290.00	✓	716	M34D17FZ7	TEFC	12B30-34G	30	90	2.8	S, US
90	100	1/4	M1135289.00	✓	716	M34D17FZ6	TEFC	12B19-34G	19	90	2.6	S, US
115	85	1/4	M1135288.00	C/A	716	M34D17FZ5	TEFC	12B15-34G	15	90	2.6	S, US
167	61	1/4	M1135287.00	✓	716	M34D17FZ4	TEFC	12B11-34G	11	90	2.6	S, US
250	46	1/4	M1135286.00	✓	716	M34D17FZ3	TEFC	12B7-34G	7	90	2.6	S, US

C/A - Check Availability

♥ Note listing on inside back flap

Note 12 - TENV

Specifications are subject to change without notice

12 Volt - TENV - Right-Angle

Output RPM	F.L. Torque (Lb.In.)	Input HP	Catalog Number	Stock	List Price	Model Number	Enclosure	Gearmotor Type & Frame	Ratio to 1	Arm. Volts DC	F.L. Amps. DC	♥Notes
27	134	1/8	M1135285.00	C/A	705	M34D17NZ29	TENV	12B60-34C	61	12	14.0	S, US
45	94	1/8	M1135284.00	✓	705	M34D17NZ28	TENV	12B39-34C	39	12	15.0	S, US
58	158	1/4	M1135297.00	✓	738	M34D17NZ36	TENV	12B30-34F	30	12	24.0	S, US
90	100	1/4	M1135296.00	C/A	738	M34D17NZ35	TENV	12B19-34F	19	12	24.0	S, US
115	85	1/4	M1135295.00	C/A	738	M34D17NZ34	TENV	12B15-34F	15	12	23.0	S, US
167	61	1/4	M1135294.00	C/A	738	M34D17NZ33	TENV	12B11-34F	11	12	21.0	S, US
250	46	1/4	M1135293.00	✓	738	M34D17NZ32	TENV	12B7-34F	7	12	23.0	S, US

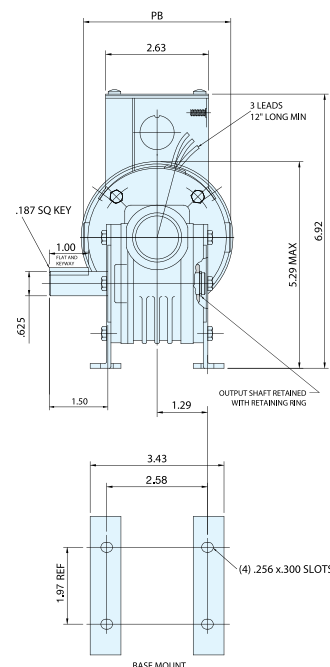
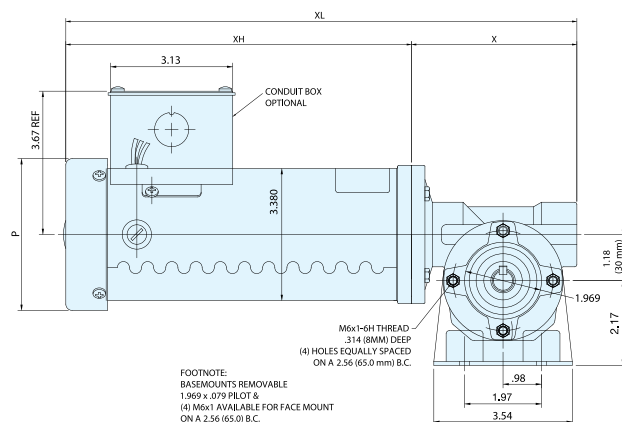
C/A - Check Availability

♥ Note listing on inside back flap

Specifications are subject to change without notice

Notes:

- 1 Conduit box not supplied with the gearmotor. Mounting provisions are provided and can use conduit box kit catalog number M1760007.00 found on page 342.
- 2 For solid double output shaft, consult factory.



SCR 90 Volt Rated (IN)

P	X	XL	XH	PB
3.38	4.32	11.07	6.75	4.00
3.38	4.32	11.07	6.75	4.00
3.88	4.32	13.16	8.84	3.76
3.88	4.32	13.16	8.84	3.76
3.88	4.32	13.16	8.84	3.76
3.88	4.32	13.16	8.84	3.76
3.88	4.32	13.16	8.84	3.76

Low Voltage 12V (IN)

P	X	XL	XH	PB
3.38	4.32	10.57	6.25	4.21
3.38	4.32	10.57	6.25	4.21
3.38	4.32	11.82	7.50	4.21
3.38	4.32	11.82	7.50	4.21
3.38	4.32	11.82	7.50	4.21
3.38	4.32	11.82	7.50	4.21
3.38	4.32	11.82	7.50	4.21

View On-line Technical Information



Gearmotors

IP55 Washguard® Gearmotors - P300 Series - DC



General Specifications - SCR Rated Gearmotors:

- Performance matched for continuous duty service over 60:1 speed range
- Constant torque throughout the range when powered by a full-wave unfiltered SCR-type adjustable speed control having a typical form factor of 1.3 to 1.4

General Specifications - Low Voltage Gearmotors:

- Performance matched for continuous duty service
- Designed for battery power or can be used with a low voltage controller with form factor up to 1.05

Features:

- Gearbox output shafts are coated with Mirolon 3300 fortified Teflon for superior corrosion resistance
- Frame, endshields, armature and interior components protected by enamel and polyester compounds for resistance to moisture, acids, alkalies and oil
- Precision machined in-line steel gears
- First stage steel helical gear followed by spur-type gears
- Lubrication is permanent semi-fluid grease, reducing possibility of leakage
- Output shafts have needle bearings for high load capacities
- Gearbox Shafts are hardened steel
- Cast conduit box with threaded conduit holes and Nitrile gaskets keep water out
- Conduit box cover is made from 304 stainless steel
- For any condensation that may accumulate inside the motor, a one-way stainless steel vapor vent is provided
- All hardware is stainless steel
- Painted with white epoxy for superior corrosion resistance and protection
- Machined fits between the endbells and motor frame are sealed with gaskets
- Thru-bolt heads and nuts sealed with fiber washers
- O-rings under each threaded brush cover

Application Notes:

- Extended life in wet, high humidity applications
- Design repels water from entering motor
- Internal components protected against rust and corrosion
- These gearmotors are designed for mounting at any angle, but motor below the reducer should be avoided to prevent leakage of lubricant into the motor should the motor shaft seal fail
- Overhung load capacities shown are at center of output shaft
- Motor's stall torque could exceed recommended full load torques. A current limiting device such as an SCR control should be used to prevent damage. This issue is even more critical for low voltage motors, typically no controller is used since motor is connected directly to a battery, so some type of current limit or fusing should be considered
- USDA Approved white epoxy finish
- **Bison/Dayton direct interchange**



Gearmotors

IP55 Washguard® Gearmotors - P300 Series - DC

90 Volts - TENV - P300 Series

Output RPM	F.L. Torque (Lb.In.)	Input HP	Catalog Number	Stock	List Price	Model Number	Gearmotor Type & Frame	Ratio to 1	Arm. Volts DC	F.L. Amps DC	Over-hung Load (lb.)	Dimensions (inches)					♥ Notes
												P	PB	X	XL	XH	
5	353	1/20	M1125261.00	✓	854	M31D17VZ5	P303-31	336	90	0.8	565	3.13	3.8	3.54	10.44	8.94	S, US
31	220	1/8	M1125262.00	✓	877	M31D17VZ6	P303-31	58	90	1.6	327	3.13	3.8	3.54	11.94	10.44	S, US
51	130	1/8	M1125263.00	✓	811	M31D17VZ7	P302-31	35	90	1.6	277	3.13	3.8	3.54	11.94	10.44	S, US
94	77	1/8	M1125264.00	✓	811	M31D17VZ8	P302-31	19	90	1.6	236	3.13	3.8	3.54	11.94	10.44	S, US
167	43	1/8	M1125265.00	✓	811	M31D17VZ9	P302-31	11	90	1.6	197	3.13	3.8	3.54	11.94	10.44	S, US

C/A - Check Availability

♥ Note listing on inside back flap

Specifications are subject to change without notice

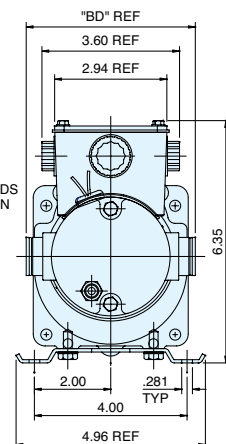
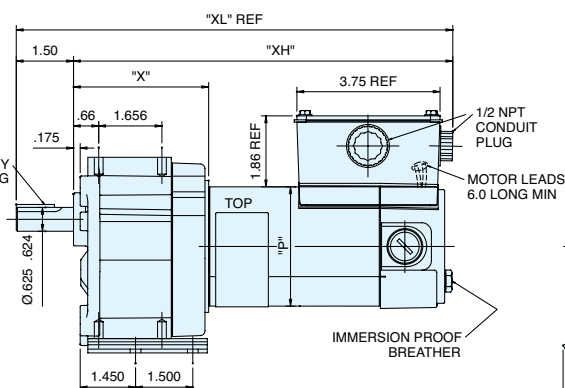
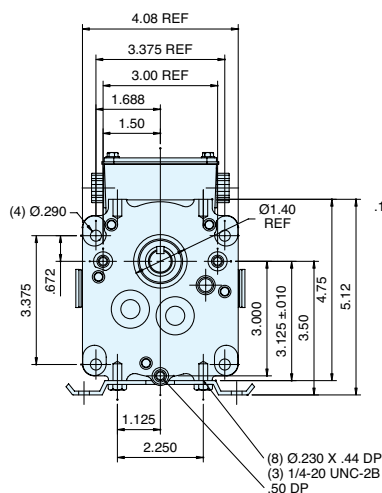
12 Volts - TENV - P300 Series

Output RPM	F.L. Torque (Lb.In.)	Input HP	Catalog Number	Stock	List Price	Model Number	Gearmotor Type & Frame	Ratio to 1	Arm. Volts DC	F.L. Amps DC	Over-hung Load (lb.)	Dimensions (inches)					♥ Notes
												P	PB	X	XL	XH	
5	353	1/20	M1125266.00	✓	877	M31D17VZ10	P303-31	336	12	6.4	565	3.13	3.8	3.54	10.44	8.94	S, US
31	220	1/8	M1125267.00	✓	899	M31D17VZ11	P303-31	58	12	11.0	327	3.13	4.43	3.54	11.44	9.94	S, US

C/A - Check Availability

♥ Note listing on inside back flap

Specifications are subject to change without notice



View On-line Technical Information





General Specifications - SCR Rated Gearmotors:

- Performance matched for continuous duty service over 60:1 speed range
- Constant torque throughout the range when powered by a full-wave unfiltered SCR-type adjustable speed control having a typical form factor of 1.3 to 1.4

General Specifications - Low Voltage Gearmotors:

- Performance matched for continuous duty service
- Designed for battery power or can be used with a low voltage controller with form factor up to 1.05

Features:

- Gearbox output shafts are coated with Mirolon 3300 fortified Teflon for superior corrosion resistance
- Frame, endshields, armature and interior components protected by enamel and polyester compounds for resistance to moisture, acids, alkalies and oil
- Precision machined in-line steel gears
- First stage steel helical gear followed by spur-type gears
- Lubrication is permanent semi-fluid grease, reducing possibility of leakage
- Output shafts have needle bearings for high load capacities
- Gearbox Shafts are hardened steel
- Cast conduit box with threaded conduit holes and Nitrile gaskets keep water out
- Conduit box cover is made from 304 stainless steel
- For any condensation that may accumulate inside the motor, a one-way stainless steel vapor vent is provided
- All hardware is stainless steel
- Painted with white epoxy for superior corrosion resistance and protection
- Machined fits between the endbells and motor frame are sealed with gaskets
- Thru-bolt heads and nuts sealed with fiber washers
- O-rings under each threaded brush cover

Application Notes:

- Extended life in wet, high humidity applications
- Design repels water from entering motor
- Internal components protected against rust and corrosion
- These gearmotors are designed for mounting at any angle, but motor below the reducer should be avoided to prevent leakage of lubricant into the motor should the motor shaft seal fail
- Overhung load capacities shown are at center of output shaft
- Motor's stall torque could exceed recommended full load torques. A current limiting device such as an SCR control should be used to prevent damage. This issue is even more critical for low voltage motors, typically no controller is used since motor is connected directly to a battery, so some type of current limit or fusing should be considered
- USDA Approved white epoxy finish
- **Bodine/Baldor direct interchange**



90 Volts - TENV - PE350 Series - Parallel Shaft

Output RPM	F.L. Torque (Lb.In.)	Input HP	Catalog Number	Stock	List Price	Model Number	Gearmotor Type & Frame	Ratio to 1	Arm. Volts DC	F.L. Amps DC	Overhung Load (lb.)	Dimensions (inches)					♥ Notes
												P	PB	X	XL	XH	
14	341	1/8	M1125268.00	✓	884	M31D25VZ1	P353-31	180	90	1.5	465	3.13	3.8	3.45	11.84	9.84	S, US
42	280	1/4	M1125269.00	✓	915	M32D25VZ1	P353-32	58	90	2.6	327	3.25	3.8	3.45	13.84	11.84	S, US
83	155	1/4	M1125270.00	✓	891	M32D25VZ2	P353-32	29	90	2.6	267	3.25	3.8	3.45	13.84	11.84	S, US
250	45	1/4	M1125271.00	✓	891	M32D25VZ3	P352-32	10	90	2.6	201	3.25	3.8	3.45	13.84	11.84	S, US
500	25	1/4	M1125272.00	✓	891	M32D25VZ4	P352-32	5	90	2.6	194	3.25	3.8	3.45	13.84	11.84	S, US

Specifications are subject to change without notice

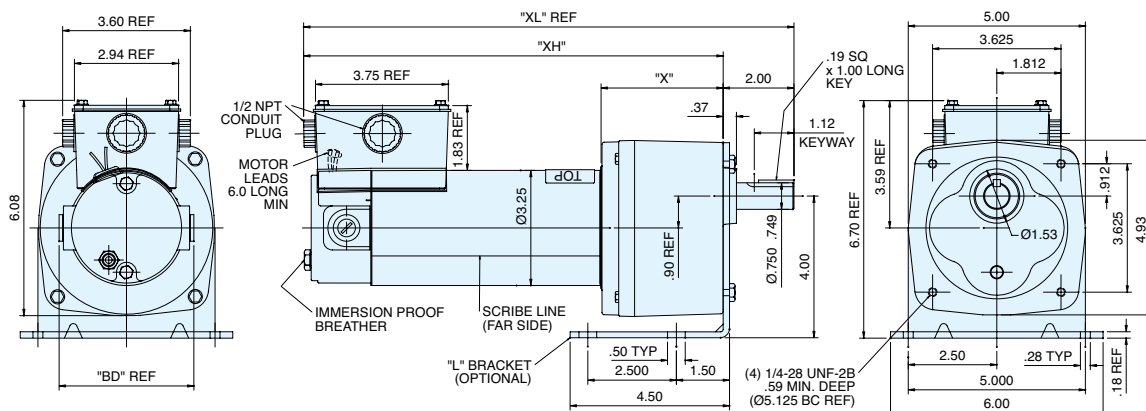
♥ Note listing on inside back flap

12 Volts - TENV - PE350 Series - Parallel Shaft

Output RPM	F.L. Torque (Lb.In.)	Input HP	Catalog Number	Stock	List Price	Model Number	Gearmotor Type & Frame	Ratio to 1	Arm. Volts DC	F.L. Amps DC	Overhung Load (lb.)	Dimensions (inches)					♥ Notes
												P	PB	X	XL	XH	
14	341	1/8	M1125273.00	C/A	906	M31D25VZ2	P353-31	180	12	12.0	465	3.13	4.43	3.45	11.58	9.58	S, US
42	325	1/4	M1125274.00	C/A	957	M32D25VZ5	P353-32	58	12	20.0	327	3.25	4.43	3.45	13.84	11.84	S, US

Specifications are subject to change without notice

♥ Note listing on inside back flap



View On-line Technical Information





General Specifications - SCR Rated Gearmotors:

- Performance matched for continuous duty service over 60:1 speed range
- Constant torque throughout the range when powered by a full-wave unfiltered SCR-type adjustable speed control having a typical form factor of 1.3 to 1.4

General Specifications - Low Voltage Gearmotors:

- Performance matched for continuous duty service
- Designed for battery power or can be used with a low voltage controller with form factor up to 1.05

Features:

- 303 Stainless Steel gearbox output shaft
- Frame, endshields, armature and interior components protected by enamel and polyester compounds for resistance to moisture, acids, alkalies and oil
- Cast conduit box with threaded conduit holes and Nitrile gaskets keep water out
- Conduit box cover is made from 304 stainless steel
- For any condensation that may accumulate inside the motor, a one-way stainless steel vapor vent is provided
- All hardware is stainless steel
- Painted with white epoxy for superior corrosion resistance and protection
- Machined fits between the endbells and motor frame are sealed with gaskets
- Thru-bolt heads and nuts sealed with fiber washers
- O-rings under each threaded brush cover
- Worm-type right-angle gearing features hardened, steel worm with bronze worm wheel for long life and quiet operation
- Precision machined aluminum gear housing
- Lubrication is permanent with an oil bath
- Gearbox has all ball bearings
- Output shaft is field interchangeable from left hand to right hand style by reassembly
- Double output shaft available as a factory option

Application Notes:

- These right-angle gearmotors have a lubrication breather positioned for horizontal mounting. For other mountings, the breather plug must be reoriented by using a 90 deg 1/8" NPT taper pipe elbow (See drawing). Elbow not available from LEESON
- These gearmotors are designed for mounting at any angle, but motor below the reducer should be avoided to prevent leakage of lubricant into the motor should the motor shaft seal fail
- Overhung load capacities shown are at center of output shaft
- For additional information, see Bulletin 1830

Gearmotors

Parallel Shaft - SUB-FHP - AC Gearmotors

12-100 In-Lbs. Output Torque



Features:

- Permanent split capacitor design rated for 115VAC 60 HZ input
- Precision machined in-line steel gears
- First stage steel helical gear followed by spur-type gears
- Lubrication is permanent semi-fluid grease, reducing possibility of leakage
- Output shafts have needle bearings for high load capacities
- Shafts are hardened steel
- Optional conduit box and PZ gearmotor mounting bracket available

Application Notes:

- These gearmotors are designed for mounting at any angle, but motor below the reducer should be avoided to prevent leakage of lubricant into the motor should the motor shaft seal fail
- The motor's stall torque could exceed recommended full load torques causing gearhead damage, especially in ratios of 60:1 and higher. Provisions to limit the torque are recommended
- The torque values listed are the recommended full load torque values
- Overhung load capacities shown are at center of output shaft
- For additional information, see Bulletin 1830
- All PZ Series gearmotors are supplied with continuous duty "run" capacitor
- Optional conduit box available, see page 342
- For additional information, see Bulletin 1830
- **Bodine/Bison/Dayton direct interchange**

115 Volts - TEFC - Single Phase

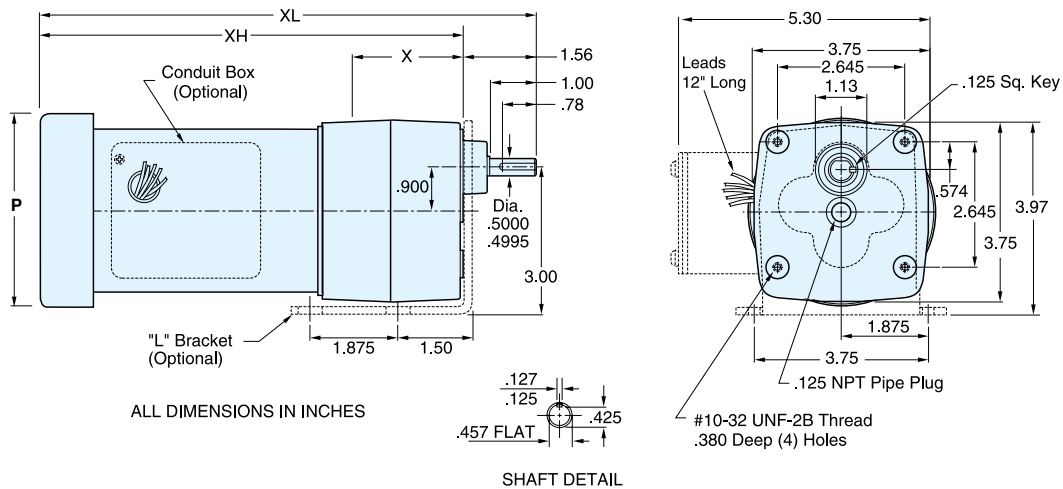
Output RPM	F.L. Torque (Lb.In.)	Input HP	Catalog Number	Stock	List Price	Model Number	Gearmotor Type & Frame	Ratio to 1	F.L. Amps 115	Over-hung Load (lb.)	Dimensions (inches)				Capacitor Mfd. 240 VAC	♥ Notes
											P	X	XL	XH		
2	100	1/150	M1125050.00	✓	535	M31P17NZ1	PZ5-31	900	0.4	155	3.07	3.23	8.71	7.15	3	S, US, 12
9	100	1/15	M1125127.00	✓	535	M31P17FZ1	PZ4-31	180	0.9	155	3.88	3.23	10.42	8.86	10	S, US, 13
19	100	1/15	M1125128.00	✓	535	M31P17FZ2	PZ4-31	90	0.9	155	3.88	3.23	10.42	8.86	10	S, US, 13
28	100	1/15	M1125129.00	✓	535	M31P17FZ3	PZ3-31	60	0.9	155	3.88	2.43	9.62	8.06	10	S, US, 13
57	56	1/15	M1125130.00	✓	514	M31P17FZ4	PZ3-31	30	0.9	171	3.88	2.43	9.62	8.06	10	S, US, 13
94	36	1/15	M1125131.00	✓	514	M31P17FZ5	PZ3-31	18	0.9	171	3.88	2.43	9.62	8.06	10	S, US, 13
142	24	1/15	M1125132.00	✓	498	M31P17FZ6	PZ2-31	12	0.9	180	3.88	2.13	9.32	7.76	10	S, US, 13
283	12	1/15	M1125133.00	✓	498	M31P17FZ7	PZ2-31	6	0.9	180	3.88	2.13	9.32	7.76	10	S, US, 13

Note 12 - TENV

♥ Note listing on inside back flap

Specifications are subject to change without notice

PZ SERIES - AC



View On-line Technical Information



Gearmotors

P240 Series - SUB-FHP - AC Gearmotors

Output Torque - 43-391 In-Lbs.



Features:

- Permanent split capacitor design rated for 115/230VAC 60/50 HZ input
- Precision machined in-line steel gears
- First stage steel helical gear followed by spur-type gears
- Lubrication is permanent semi-fluid grease, reducing possibility of leakage
- Output shafts have needle bearings for high load capacities
- Shafts are hardened steel
- Optional conduit box available

Application Notes:

- These gearmotors are designed for mounting at any angle, but motor below the reducer should be avoided to prevent leakage of lubricant into the motor should the motor shaft seal fail
- The motor's stall torque could exceed recommended full load torques causing gearhead damage, especially in ratios of 60:1 and higher. Provisions to limit the torque are recommended
- Overhung load capacities shown are at center of output shaft
- All P240 Series gearmotors are supplied with continuous duty "run" capacitor
- For additional information, see Bulletin 1830
- **Bison/Dayton direct interchange**

P240 Series - SUB-FHP - AC Gearmotors
Output Torque - 43-391 In-Lbs.

Single Phase - 115/230 Volts - TEFC - P240 Series

Output RPM	F.L. Torque (Lb.In.)	Input HP	Catalog Number	Stock	List Price	Model Number	Gearmotor Type & Frame	Ratio to 1	F.L. Amps 115	Over-hung Load (lb.)	Dimensions (inches)				Capacitor Mfd. 240 VAC	♥ Notes
											P	X	XL	XH		
8	345	1/15	M1145029.00	✓	799	M38P17NZ26	P243-38D	216	1.0	491	3.85	3.50	10.46	8.96	7.5	S, US, 13
15	250	1/15	M1145023.00	✓	799	M38P17NZ20	P243-38D	114	1.0	407	3.85	3.50	10.46	8.96	7.5	S, US, 13
16	391	1/6	M1145030.00	✓	868	M38P17FZ9	P243-38F	103	2.1	399	4.43	3.50	12.13	10.63	15	S, US, 12
30	135	1/15	M1145024.00	✓	726	M38P17NZ21	P242-38D	52	1.0	330	3.85	3.50	10.46	8.96	7.5	S, US, 13
30	295	1/6	M1145031.00	✓	868	M38P17FZ10	P243-38F	58	2.1	330	4.43	3.50	12.13	10.63	15	S, US, 12
40	219	1/6	M1145032.00	✓	868	M38P17FZ11	P243-38F	43	2.1	303	4.43	3.50	12.13	10.63	15	S, US, 12
45	92	1/15	M1145025.00	C/A	726	M38P17NZ22	P242-38D	35	1.0	292	3.85	3.50	10.46	8.96	7.5	S, US, 13
60	157	1/6	M1145033.00	✓	796	M38P17FZ12	P242-38D	29	2.1	268	4.43	3.50	12.13	10.63	15	S, US, 12
70	61	1/15	M1145026.00	✓	726	M38P17NZ23	P242-38D	23	1.0	256	3.85	3.50	10.46	8.96	7.5	S, US, 13
90	103	1/6	M1145034.00	✓	796	M38P17FZ13	P242-38D	19	2.1	237	4.43	3.50	12.13	10.63	15	S, US, 12
97	43	1/15	M1145027.00	✓	726	M38P17NZ24	P242-38D	16.5	1.0	232	3.85	3.50	10.46	8.96	7.5	S, US, 13
139	30	1/15	M1145028.00	✓	726	M38P17NZ25	P242-38D	11.5	1.0	208	3.85	3.50	10.46	8.96	7.5	S, US, 13
156	60	1/6	M1145035.00	✓	796	M38P17FZ14	P242-38D	10.6	2.1	201	4.43	3.50	12.13	10.63	15	S, US, 12

C/A - Check Availability

Note 12 - TENV

Specifications are subject to change without notice

♥ Note listing on inside back flap

Gearmotors

P240 Series - SUB-FHP - AC Gearmotors

IP55 AC Washguard® Gearmotors

General Specifications - SCR Rated Gearmotors:

Single and Three-phase washdown duty gearmotors rated for continuous duty applications. Permanent split designed single-phase motors include capacitor in conduit box. Motors are designed for extended life in applications requiring regular washdown or otherwise wet environments. Avoid shaft up applications, with motor below, should shaft seal fail.



Features:

- 304 Stainless steel external shafts
- White epoxy painted motors
- O-rings and gaskets used for sealing
- Hardened Worm-type gearing used
- Interior components protected against corrosion
- Ball bearings used in gear housing
- Sealed output shafts
- Output shafts have needle bearings for high load capacities
- UL listed and CSA certified

115/230 Volts - 1 & 3-Phase - TEFC - P240 Series

Output RPM	F.L. Torque (Lb.In.)	Input HP	Catalog Number	Stock	List Price	Model Number	Gearmotor Type & Frame	Ratio to 1	Voltage	F.L. Amps 230 V	Phase	Over-hung Load (Lbs.)
16	391	11810	M1145138.00	✓	910	M38P17FZ39	P240	103	115/230	1.05	1	399
40	219	11810	M1145139.00	✓	910	M38P17FZ40	P240	43	115/230	1.00	1	303
156	60	11810	M1145140.00	✓	835	M38P17FZ41	P240	10.6	115/230	1.00	1	201
16	391	41280	M1145144.00	✓	910	M38T17FZ20	P240	103	230	0.72	3	237
30	295	41280	M1145145.00	✓	910	M38T17FZ21	P240	58	230	0.72	3	237

Specifications are subject to change without notice

♥ Note listing on inside back flap

View On-line Technical Information



Single Phase - 115/230 Volts - TEFC - PE350 Series - Parallel Shaft

Output RPM	F.L. Torque (Lb.In.)	Input HP	Catalog Number	Stock	List Price	Model Number	Gearmotor Type & Frame	Ratio to 1	F.L. Amps @ 115V	Over-hung Load (lb.)	Dimensions (inches)		Capacitor Mfd. 240 VAC	♥Notes
											XL	XH		
5	310	1/12	096000.00	✓	760	42P17NZ1	PE353-42	336	1.3	565	11.36	9.36	10	S, US, 12
9	341	1/12	096001.00	✓	760	42P17NZ2	PE353-42	180	1.3	491	11.36	9.36	10	S, US, 12
14	330	1/12	096002.00	✓	760	42P17NZ3	PE353-42	124	1.3	459	11.36	9.36	10	S, US, 12
19	250	1/12	096003.00	✓	760	42P17NZ4	PE353-42	91	1.3	374	11.36	9.36	10	S, US, 12
29	270	1/6	096004.00	✓	799	42P17FZ1	PE353-42	58	3.2	327	13.32	11.32	15	S, US, 13
34	250	1/6	096005.00	✓	799	42P17FZ2	PE353-42	50	3.2	330	13.32	11.32	15	S, US, 13
40	180	1/6	096006.00	C/A	799	42P17FZ3	PE353-42	43	3.2	303	13.32	11.32	15	S, US, 13
59	135	1/6	096007.00	✓	755	42P17FZ4	PE352-42	29	3.2	267	13.32	11.32	15	S, US, 13
75	90	1/6	096008.00	✓	755	42P17FZ5	PE352-42	23	3.2	256	13.32	11.32	15	S, US, 13
113	68	1/6	096009.00	✓	755	42P17FZ6	PE352-42	15	3.2	222	13.32	11.32	15	S, US, 13
160	45	1/6	096010.00	C/A	755	42P17FZ7	PE352-42	10	3.2	196	13.32	11.32	15	S, US, 13
340	25	1/6	096011.00	✓	755	42P17FZ8	PE352-42	5	3.2	190	13.32	11.32	15	S, US, 13
Hi-Torque Single Phase PE350 Gearmotors With Capacitor Start Motors														
58	320	1/3	096049.00	✓	885	42C17FZ4	PE353-42	30	7.2	300	14.56	12.56	...	S, US, 13
85	218	1/3	096050.00	✓	831	42C17FZ5	PE353-42	20	7.2	300	14.56	12.56	...	S, US, 13
173	109	1/3	096051.00	✓	831	42C17FZ6	PE353-42	10	7.2	300	14.56	12.56	...	S, US, 13
345	55	1/3	096052.00	✓	831	42C17FZ7	PE353-42	5	7.2	300	14.56	12.56	...	S, US, 13

C/A - Check Availability

Note 12 - TENV

Specifications are subject to change without notice

♥ Note listing on inside back flap

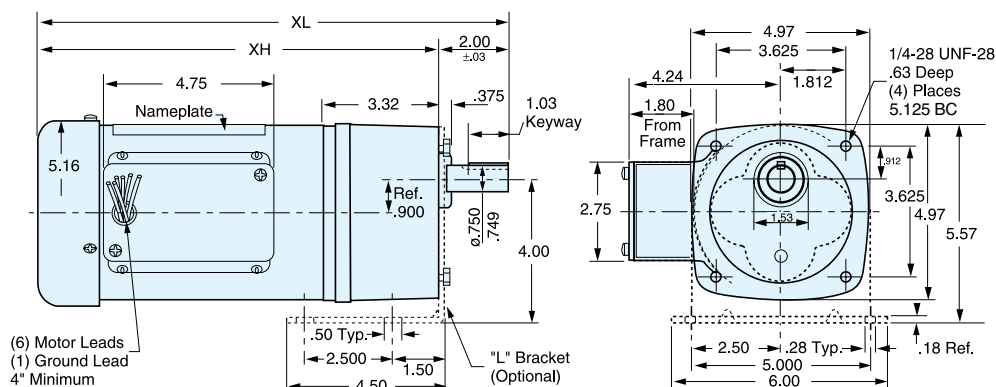
Three Phase - 230/460 Volt - PE350 Series - Parallel Shaft - TEFC

Output RPM	F.L. Torque (Lb.In.)	Input HP	Catalog Number	Stock	List Price	Model Number	Gearmotor Type & Frame	Ratio to 1	F.L. Amps @ 230V	Over-hung Load (lb.)	Dimensions (inches)		♥Notes
											XL	XH	
58	320	1/3	096013.00	✓	878	42T17FZ14	PE353-42	30	1.6	300	13.81	11.81	S, US, 13
85	218	1/3	096014.00	✓	825	42T17FZ15	PE352-42	20	1.6	300	13.81	11.81	S, US, 13
173	109	1/3	096015.00	✓	825	42T17FZ16	PE352-42	10	1.6	300	13.81	11.81	S, US, 13
345	55	1/3	096016.00	✓	825	42T17FZ17	PE352-42	5	1.6	300	13.81	11.81	S, US, 13

Specifications are subject to change without notice

♥ Note listing on inside back flap

PE350 THREE PHASE



View On-line Technical Information



Gearmotors

P1100 Series - AC Gearmotors - Parallel Shaft

Output Torque - 70-1105 In-Lbs

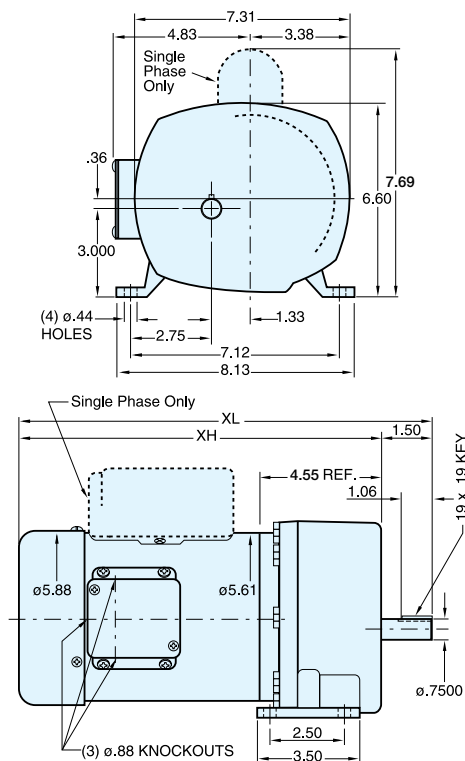


Features:

- Capacitor start designs rated for 115/230VAC 60 HZ input
- Rugged die cast aluminum gear housing for maximum gear and bearing support
- Precision machined gearing, hardened for maximum load capability
- All gearing designed and rated to AGMA class 9 standards, and to withstand momentary shock overload of 200%
- Oversized output bearings for greater overhung load capacity and long life
- High carbon alloy output shaft provides maximum strength and rigidity
- All needle bearing journals are precision ground after heat treating to provide maximum fit and finish
- Heavy duty industrial oil seals keep lubricant in and dirt out
- Gears and bearings are splash lubricated with permanent, heavy duty gear oil
- Conduit box included as standard

Application Notes:

- These gearmotors are designed for mounting at any angle, but motor below the reducer should be avoided to prevent leakage of lubricant into the motor should the motor shaft seal fail
- Overhung load capacities shown are at center of output shaft
- For additional information, see Bulletin 1830
- **Bison/Dayton direct interchange**



P1100 Series - AC Gearmotors - Parallel Shaft

Single Phase - 115/230 Volt - TEFC - P1100 Series

Output RPM	F.L. Torque (Lb.In.)	Input HP	Catalog Number	Stock	List Price	Model Number	Gearmotor Type & Frame	Ratio to 1	F.L. Amps @ 115V	Over- hung Load (lb.)	Dimensions (inches)		♥Notes
											XL	XH	
8	975	1/4	107000.00	✓	1037	4C17FZ24	P1103-48	212	5.4	700	13.42	11.92	S, US
12	1030	1/4	107004.00	✓	1037	4C17FZ28	P1103-48	143	5.4	700	13.42	11.92	S, US
18	800	1/4	107003.00	✓	1037	4C17FZ27	P1103-48	95	5.4	700	13.42	11.92	S, US
26	569	1/4	107002.00	✓	1037	4C17FZ26	P1103-48	66	5.4	650	13.42	11.92	S, US
59	248	1/4	107005.00	✓	1014	4C17FZ29	P1102-48	29	5.4	625	13.42	11.92	S, US
133	114	1/4	107001.00	✓	1014	4C17FZ25	P1102-48	13	5.4	525	13.42	11.92	S, US
18	1089	1/3	107006.00	✓	1049	4C17FZ30	P1103-48	95	6.2	700	13.67	13.17	S, US
26	752	1/3	107012.00	✓	1049	4C17FZ36	P1103-48	66	6.2	650	13.67	13.17	S, US
41	461	1/3	107011.00	✓	1027	4C17FZ35	P1102-48	42	6.2	650	13.67	13.17	S, US
59	330	1/3	107010.00	✓	1027	4C17FZ34	P1102-48	29	6.2	625	13.67	13.17	S, US
91	224	1/3	107009.00	✓	1027	4C17FZ33	P1102-48	19	6.2	575	13.67	13.17	S, US
157	125	1/3	107008.00	✓	1027	4C17FZ32	P1102-48	11	6.2	500	13.67	13.17	S, US
288	70	1/3	107007.00	✓	1027	4C17FZ31	P1102-48	6	6.2	400	13.67	13.17	S, US
22	1105	1/2	107013.00	✓	1143	4C17FZ37	P1103-48	79	8.8	700	14.17	12.67	S, US
41	700	1/2	107017.00	✓	1120	4C17FZ41	P1102-48	42	8.8	650	14.17	12.67	S, US
59	496	1/2	107016.00	✓	1120	4C17FZ40	P1102-48	29	8.8	625	14.17	12.67	S, US
91	336	1/2	107015.00	✓	1120	4C17FZ39	P1102-48	19	8.8	575	14.17	12.67	S, US
133	229	1/2	107014.00	✓	1120	4C17FZ38	P1102-48	13	8.8	525	14.17	12.67	S, US

Specifications are subject to change without notice

♥ Note listing on inside back flap

Three Phase - 230/460 Volt - TEFC - P1100 Series

Output RPM	F.L. Torque (Lb.In.)	Input HP	Catalog Number	Stock	List Price	Model Number	Gearmotor Type & Frame	Ratio to 1	F.L. Amps @ 115V	Over- hung Load (lb.)	Dimensions (inches)		♥Notes
											XL	XH	
18	1089	1/3	107025.00	✓	1,155	4T17FZ47	P1103-48	95	1.6	700	12.92	11.42	S, US
26	752	1/3	107026.00	✓	1,155	4T17FZ53	P1103-48	66	1.6	650	12.92	11.42	S, US
41	461	1/3	107027.00	✓	1,129	4T17FZ54	P1102-48	42	1.6	650	12.92	11.42	S, US
59	330	1/3	107028.00	✓	1,129	4T17FZ55	P1102-48	29	1.6	625	12.92	11.42	S, US
91	224	1/3	107029.00	✓	1,129	4T17FZ56	P1102-48	19	1.6	575	12.92	11.42	S, US
157	125	1/3	107030.00	✓	1,129	4T17FZ57	P1102-48	11	1.6	500	12.92	11.42	S, US
288	70	1/3	107031.00	✓	1,129	4T17FZ58	P1102-48	6	1.6	400	12.92	11.42	S, US
22	1105	1/2	107032.00	✓	1,218	4T17FZ48	P1103-48	79	2.0	700	13.42	11.92	S, US
41	700	1/2	107033.00	✓	1,200	4T17FZ49	P1102-48	42	2.0	650	13.42	11.92	S, US
59	496	1/2	107034.00	✓	1,200	4T17FZ50	P1102-48	29	2.0	625	13.42	11.92	S, US
91	336	1/2	107035.00	✓	1,200	4T17FZ51	P1102-48	19	2.0	575	13.42	11.92	S, US
133	229	1/2	107036.00	✓	1,200	4T17FZ52	P1102-48	13	2.0	500	13.42	11.92	S, US
288	100	1/2	107037.00	✓	1,200	4T17FZ46	P1102-48	6	2.0	400	13.42	11.92	S, US

Specifications are subject to change without notice

♥ Note listing on inside back flap

View On-line Technical Information



Gearmotors

Right-Angle - AC Gearmotors



Output Torque - 14-113 In-Lbs

Features:

- Permanent split capacitor design rated for 115/230VAC 60/50 HZ input
- Worm-type right-angle gearing features hardened, steel worm with bronze worm wheel for long life and quiet operation
- Precision machined aluminum gear housing
- Lubrication is permanent with an oil bath
- Gearbox has all ball bearings
- Output shaft is field interchangeable from left hand to right hand style by reassembly
- Double output shaft available as a factory option
- Optional conduit box available, see page 342
- Optional gearbox base available (10 Series only), see page 342

Application Notes:

- These right-angle gearmotors have a lubrication breather positioned for horizontal mounting. For other mountings, the breather plug must be reoriented by using a 90 deg 1/8" NPT taper pipe elbow (See drawing). Elbow not available from LEESON
- These gearmotors are designed for mounting at any angle, but motor below the reducer should be avoided to prevent leakage of lubricant into the motor should the motor shaft seal fail
- Overhung load capacities shown are at center of output shaft
- Continuous duty run capacitor supplied as standard
- For additional information, see Bulletin 1830
- **Bodine/Dayton direct interchange**

Single Phase - 115/230 Volt - TEFC - Right-Angle

Output RPM	F.L. Torque (Lb.In.)	Input HP	Catalog Number	Stock	List Price	Model Number	Gearmotor Type & Frame	Ratio to 1	F.L. Amps @115V	Over-hung Load (lb.)	Dimensions (inches)				Capacitor Mfd. 240 VAC	♥Notes
											P	X	XL	XH		
28	37	1/15	M1125080.00	✓	659	M31P17NZ19	10F60-31C	60	0.9	185	3.07	3.63	8.94	5.31	10.0 ^a	S, US, 12
43	34	1/15	M1125081.00	✓	659	M31P17NZ18	10F40-31C	40	0.9	185	3.07	3.63	8.94	5.31	10.0 ^a	S, US, 12
58	40	1/15	M1125082.00	✓	659	M31P17NZ17	10F30-31C	30	0.9	185	3.07	3.63	8.94	5.31	10.0 ^a	S, US, 12
85	24	1/15	M1125083.00	✓	659	M31P17NZ16	10F20-31C	20	0.9	185	3.07	3.63	8.94	5.31	10.0 ^a	S, US, 12
173	14	1/15	M1125084.00	✓	659	M31P17NZ15	10F10-31C	10	0.9	185	3.07	3.63	8.94	5.31	10.0 ^a	S, US, 12
29	110	1/6	M1145037.00	✓	894	M38P17FZ16	13F60-38F	60	2.0	235	3.85	4.50	12.31	7.81	15.0 ^c	S, US, 13
43	113	1/6	M1145038.00	✓	894	M38P17FZ17	13F40-38F	40	2.0	235	3.85	4.50	12.31	7.81	15.0 ^c	S, US, 13
57	95	1/6	M1145082.00	✓	894	M38P17FZ23	13F30-38F	30	2.0	235	3.85	4.50	12.31	7.81	15.0 ^c	S, US, 13
83	75	1/6	M1145039.00	✓	894	M38P17FZ18	13F20-38F	20	2.0	235	3.85	4.50	12.31	7.81	15.0 ^c	S, US, 13
170	43	1/6	M1145040.00	✓	894	M38P17FZ19	13F10-38F	10	2.0	235	3.85	4.50	12.31	7.81	15.0 ^c	S, US, 13
340	23	1/6	M1145041.00	✓	894	M38P17FZ20	13F05-38F	5	2.0	235	3.85	4.50	12.31	7.81	15.0 ^c	S, US, 13

^a 250 VAC

^c 300 VAC

Note 12 - TENV

Specifications are subject to change without notice

♥ Note listing on inside back flap



View On-line Technical Information





General Specifications:

Single and Three-phase washdown duty gearmotors rated for continuous duty applications. Permanent split designed single-phase motors include capacitor in conduit box. Motors are designed for extended life in applications requiring regular washdown or otherwise wet environments. Avoid shaft up applications, with motor below, should shaft seal fail.

Features:

- 304 Stainless steel external shafts
- White epoxy painted motors
- O-rings and gaskets used for sealing
- Hardened Worm-type gearing used
- Interior components protected against corrosion
- Ball bearings used in gear housing
- Sealed output shafts
- Output shafts have needle bearings for high load capacities
- UL listed and CSA certified

Single & Three Phase - TEFC - Right-Angle

Output RPM	F.L. Torque (Lb.In.)	Input HP	Catalog Number	Stock	List Price	Model Number	Gearmotor Type & Frame	Ratio to 1	Voltage	F.L. Amps @ 230V	Phase	Over-hung Load (Lbs)
43	113	1/6	M1145141.00	✓	764	M38P17FZ42	Right-Angle	40	115/230	1.00	1	235
83	75	1/6	M1145142.00	✓	938	M38P17FZ43	Right-Angle	20	115/230	1.00	1	235
340	23	1/6	M1145143.00	✓	938	M38P17FZ44	Right-Angle	5	115/230	1.00	1	235
29	220	1/6	M1145146.00	✓	938	M38T17FZ22	Right-Angle	60	230	1.30	3	235
172	105	1/6	M1145147.00	✓	938	M38T17FZ23	Right-Angle	10	230	1.30	3	235

Specifications are subject to change without notice

♥ Note listing on inside back flap

View On-line Technical Information



Gearmotors

SUB-FHP Accessories

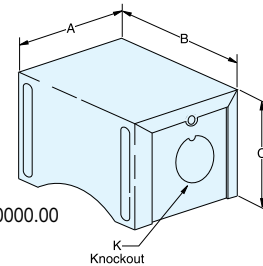
SUB-FHP Gearmotor Conduit Boxes

Optional steel conduit or junction boxes are available. The boxes are painted and mount in holes using screws provided with all stock gearmotors.

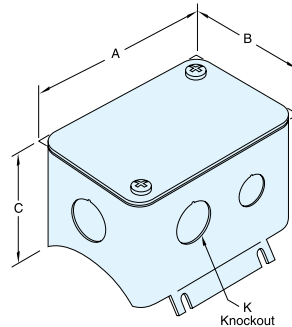
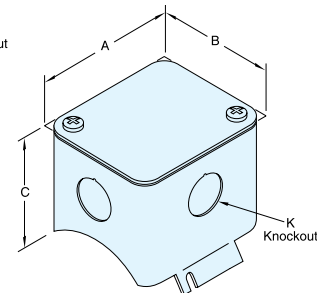
Catalog Number	Frame	List Price	Dimensions (inches)			
			A	B	C	K
M1760000.00*	25	42	2.09	2.45	2.23	0.875
M1760021.00*	30/31	42	3.13	2.63	2.28	0.875
M1760007.00	34	42	3.13	2.63	2.28	0.875
M1760012.00	38	44	4.75	2.75	2.00	1.125
175893.00	42	44	4.75	2.75	2.00	1.125

Note: * For any gearmotor catalog number beginning with M1115XXX, must clarify from gearmotor type and frame columns as listed on catalog pages 312, 314 and 322. For example, if gearmotor type and frame lists P303-30E, then use 30 frame conduit box kit M1760021.00. If gearmotor type and frame lists 10F60-25, then use conduit box kit M1760000.00.

Specifications are subject to change without notice

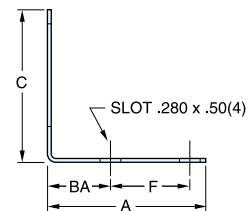
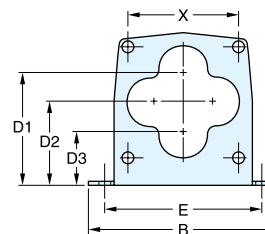


M1760000.00

M1760012.00
&
175893.00M1760007.00
&
M1760021.00

SUB-FHP Gearmotor "L" Mounting Bracket

Optional "L" brackets can be used to mount parallel shaft type PZ or PE350 gearmotors. Of steel construction, they are painted and include screws for mounting to the motor, but not the application.



Catalog Number	Frame	List Price	Dimensions (inches)									
			A	B	C	1D1	1D2	1D3	X	BA	F	E
M1760003.00	PZ Gearmotors	53	3.75	4.5	3.94	3	2.3	1.5	2.645	1.5	1.88	3.75
M1760011.00**	PE350 Gearmotors	64	4.50	6	5.52	4	3.1	2.2	3.625	1.5	2.50	5.00
M1760029.00Δ	PE350 Gearmotors	67	4.50	6	5.52	4	3.1	2.2	3.625	1.5	2.50	5.00

* Maximum radial load no greater than 50 lbs. This bracket can also be used on DC motors in the 34 frame having the style C mounting.

**Maximum radial load no greater than 200 lbs.

Δ Washguard PE350 L-Bracket

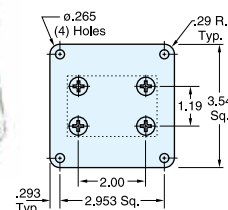
Specifications are subject to change without notice

SUB-FHP Gearmotor Right-Angle Base Kit

This Optional Base Kit can be used with the 10 Series right-angle gearmotors. (Includes screws for mounting to gearbox, but not the application.)

Catalog Number	List Price
M1760006.00	57

Specifications are subject to change without notice



For SUB-FHP Right-Angle AC Gearmotors

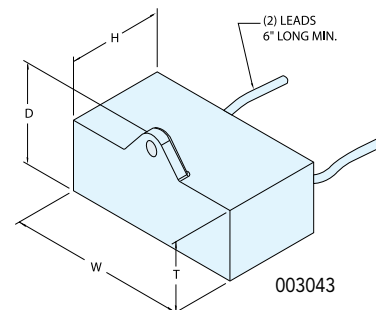
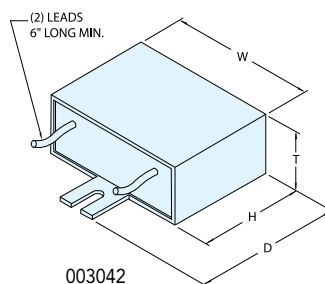
MFD Rating	Voltage Rating	Catalog Number	List Price	Dimensions (inches)			
				W	H	T	D
10	250	003043.05	49	1.89	1.14	0.75	1.14
15	300	003042.05	54	2.28	1.61	1.14	2.48

For SUB-FHP P240 & PE350 AC Gearmotors

Gearmotor Type	MFD Rating	Voltage Rating	Catalog Number	List Price	Dimensions (inches)			
					W	H	T	D
P240	7.5	250	003042.02	54	1.89	1.14	0.75	2.01
PE350	10	250	003042.06	49	1.89	1.24	0.89	2.11
P240	15	300	003042.05	54	2.28	1.61	1.14	2.48
PE350	15	250	003042.04	63	2.28	1.46	0.93	2.33

For SUB-FHP AC PZ Series gearmotors

MFD Rating	Voltage Rating	Catalog Number	List Price	Dimensions (inches)			
				W	H	T	D
3	250	003043.01	54	1.22	0.93	0.57	0.97
10	250	003043.05	49	1.89	1.14	0.75	1.14



AC / DC Controls

Quick Reference

IEC Motors

DC Motors

Gearmotors

AC / DC Controls

Accessories / Kits

Mods / Factory Options

X-Ref / Index

Tech Information

Terms / Warnings



DC Adjustable Speed Drives

Speedmaster® DC drives for use with SCR rated motors. Models range from sub-FHP through 3 HP. NEMA 1, NEMA 4/12 and NEMA 4X enclosures available. Low voltage controls available through 120 amps @12/24 V and 100 amps @ 36/48 V.



SM2/SM4 Series Flux Vector Sub-Micro AC Inverters

Speedmaster® sensorless vector drives with “big drive” features and ultra-compact size. SM2 - 1/2 through 25 HP. IP31 enclosure — NEMA 1 Type. SM4 - 1/2 through 10HP IP65 NEMA 4.



SM Series Sub-Micro AC Inverters

Speedmaster® adjustable speed drives for simpler applications not requiring the advanced features of the SM-Plus Series. Models range from 1/3 through 25 HP. IP 20 enclosure — chassis mount.



Micro Series NEMA Enclosed AC Inverters

Speedmaster® adjustable speed drives with plain-English programming and read-out. Models range from 1/4 through 150 HP. NEMA 1 enclosure.



Micro Series WASHGUARD AC Inverters

Speedmaster® adjustable speed drives in NEMA 4/12 and NEMA 4X enclosures. Plain-English programming and read-out. Models range from 1/4 through 125 HP.



Inverter Kits

Dynamic braking kits, din rail kits, remote keypads, EPM bulk packs

LEESON Speedmaster®
inverters are feature rich
controls offering great process
control and operating
efficiency for your AC Motors.
Our 3 families of controls have
the solution to your application
needs at a competitive price



Basic Features	Stand alone inverter, does not need to be mounted in an enclosure	Open control, needs to be mounted in an enclosure	Open control, needs to be mounted in an enclosure	Low cost vector inverter	Stand alone Vector inverter
	English read out display, rugged construction features	Digital display readout	Less Features than the SM-Plus Control	Vector speed control for great speed regulation	Many features and control parameters
	Steel enclosure	Over 50 programmable functions	Low cost	4 modes of operation	Easy set-up and operation
	Micro Series	SM-Plus	SM-Basic	SM2 Vector	SM4 Vector
Enclosure Type	IP 31 & IP65/54	IP20	IP20	IP20	IP 65
Enclosure Material	Steel	Plastic	Plastic	Plastic	Plastic
Number Pre-set Speeds	4	7	7	8	8
Washdown Duty	Yes	No	No	No	Yes
FWD & REV	Yes	Yes	Yes	Yes	Yes
Password Protected	Yes	Yes	Yes	Yes	Yes
Dynamic Brake Kits	Yes	Yes	Yes	No	No
Relays	Yes	Yes	Yes	Yes	Yes
EPM Programmable	No	Yes	Yes	Yes	Yes
Open Loop Vector	No	No	No	Yes	Yes
PID Software	Yes	No	No	Yes	Yes
Remote Keypads	Yes	Yes	Yes	Yes	Yes
Slip Compensation	Yes	Yes	Yes	Yes	Yes
Speed Reference Signals	Yes	Yes	Yes	Yes	Yes
Display - Words or odes	Words	3- digit	3 - digit	4 - digit	4 - digit
Adjustable carrier frequency	2.5 - 14 kHz	4 - 10 kHz	4 - 10 kHz	4 - 10 kHz	4 - 10 kHz
DC Braking	Yes	Yes	Yes	Yes	Yes
Fault History	Yes	Yes	Yes	Yes	Yes
Max. HP @ 460 Volts	150	30	15	25	10
Max. HP @ 230 Volts	60	20	15	20	10
1 Phase Input / 3 Phase Output	Yes	Yes	Yes	Yes	Yes
Output frequency	120	240 Hz	240 Hz	500 Hz	500 Hz

AC / DC Controls

DC Adjustable Speed Drives SCR Thyristor Controls



LEESON Speedmaster DC Control information

PWM and SCR Controls

General Specifications:

- General purpose for permanent magnet or shunt wound DC motors
- NEMA 4X and 4/12 suitable for washdown applications
- Dual voltage capable on most designs – see HP range
- 115 / 230 volt single-phase input voltage – DC 90 volt or 180 volt output
- Adjustable minimum and maximum speed
- Speed pot included on chassis controls
- Adjustable IR compensation
- Heat sinks required as noted
- PWM controls provide quieter operation, lower motor temperature and greater motor overload capacity

Regenerative Controls

General Specifications:

- Four quadrant controls for precise motion control
- NEMA 4X or chassis style
- Motoring and braking torque regulation 1/4 HP through 2 HP

15 Series

General Specifications:

- Dual voltage – 12/24 VAC or 120/240 VAC Input
- Adjustable minimum and maximum speed
- Adjustable IR compensation
- Fixed acceleration – (0.5 seconds)
- 5K ohm speed pot included
- 25:1 speed range and 1% speed regulation

For NEMA Frame Motors & Gearmotors

SCR Controls - Enclosed - Single Phase Input 50/60 Hz

Description	Catalog Number	List Price	Output Amps	HP Range		App. Wgt. (lbs.)
				115V	230V	
NEMA 1 General Purpose						
—Non-Reversing	174307.00	435	10	1/8 to 1 Ⓢ	1/4 to 2 Ⓢ	5
—Reversing with dynamic braking	174308.00	595	10	1/8 to 1 Ⓢ	1/4 to 2 Ⓢ	5
—Heat Sink n	174316.00	97	—	—	—	1
NEMA 4X Washdown—Dust-Tight						
—Non-Reversing, Plastic Enclosure	174102.00	592	10	1/8 to 1	1/4 to 2	6
—Non-Reversing, Plastic Enclosure with Signal Follower	174103.00	862	10	1/8 to 1	1/4 to 2	7
—Reversing, Plastic Enclosure*	174107.00	804	10	1/8 to 1	1/4 to 2	7
NEMA 4						
—Non-Reversing 3HP	174709.00	1138	15	—	3	8

See footnotes on page 349

Specifications are subject to change without notice



LEESON Speedmaster DC Control information

SCR Controls - Open Chassis

Description	Catalog Number	List Price	Output Amps	HP Range		App. Wgt. (lbs.)
				115V	230V	
Chassis with Speed Pot-Non Reversing	174311.00	241	10	1/8 to 1 ①	1/4 to 2 ①	1
Chassis Heat Sink ①	174314.00	72	—	—	—	1

Specifications are subject to change without notice

Regenerative SCR Drives - Four Quadrant - Full Wave

Description	Catalog Number	List Price	Output Amps	HP Range		App. Wgt. (lbs.)
				115V	230V	
NEMA 4X Washdown □	175720.00	1242	10	1/4 to 1 ②	1/2 to 2 ②	8
Open Chassis with Speed Pot □	175721.00	801	10	1/4 to 1 ②	1/2 to 2 ②	2
Chassis Heat Sink ②	175722.00	139	—	—	—	2

Specifications are subject to change without notice



For Subfractional HP Motors & Gearmotors

PWM & SCR Controls - Enclosed - Single Phase Input 50/60 Hz

Description	Catalog Number	List Price	Output Amps	HP Range		App. Wgt. (lbs.)
				115V	230V	
NEMA 1 General Purpose						
—SCR Non-Reversing	M1740005.00	418	3	1/40 to 1/8	1/40 to 1/4	5
—SCR Reversing With Dynamic Braking	M1740006.00	564	3	1/40 to 1/8	1/40 to 1/4	5
—PWM Non-Reversing	M1740008.00	362	3	1/40 to 1/8	1/40 to 1/4	2

Specifications are subject to change without notice

PWM & SCR Controls - Open Chassis

Description	Catalog Number	List Price	Output Amps	HP Range		App. Wgt. (lbs.)
				115V	230V	
Open Chassis SCR Type						
—Chassis with Speed Pot-Non Reversing	M1740007.00	232	1.5	1/40 to 1/8	1/40 to 1/4	1
Open Chassis PWM Type						
—Chassis with Speed Pot-Non Reversing	M1740009.00	270	2	1/40 to 1/8	—	1

* Drive does not have dynamic braking. Motor shaft must be at zero speed before reversing.

① Heat sink #174316.00 is required for NEMA 1 type 3/4 and 1HP 115V and 11/2 and 2HP 230V when the amp draw of the motor exceeds 5 amps.

② Chassis Heat Sink #174314.00 required for 3/4 and 1HP 115V and 11/2 and 2HP 230V when the amp draw of the motor exceeds 5 amps.

③ Chassis Heat sink #175722.00 required for 1HP and above when the amp draw of the motor exceeds 5 amps.

□ Regenerative drives are reversible and have regenerative braking.

Specifications are subject to change without notice

AC / DC Controls

DC Adjustable Speed Drives - SCR Controls

15 Series

General Specifications:

- 0-90 / 0-180 volts DC
- Adjustable min. and max. speed
- Adjustable IR compensation
- Fixed acceleration - 5 seconds
- 5K ohm speed potentiometer included
- 25:1 speed range and 1% speed regulation



NEMA 4/12
Non-Reversing



Figure 1



Figure 2

Description	Catalog Number	List Price	Output Amps	HP Range		App. Wgt. (lbs.)
				115V	230V	
NEMA 4/12 Non-Reversing	174696.00	281	3	1/3	2/3	1
Chassis - Figure 1	174695.00	162	2	1/6	1/6	1
Chassis - Figure 2	174694.00	162	2	1/6	1/6	1

Specifications are subject to change without notice

Low Voltage Adjustable Speed Controllers

General Specifications:

- Chassis type design
- DC input / DC output
- Speed potentiometer shipped loose
- High efficient designs increase battery life



Features:

- 40 : 1 speed range
- Holds speed control as battery discharges
- Adjustable min. and max. speeds
- IR compensation
- 200% current limit overload protection
- Inhibit pins provide optional start-stop
- Power on LED indicator

Input Voltage	Catalog Number	List Price	Output Amps	Dimensions (inches)			App. Wgt. (lbs.)
				Length	Width	Height	
12/24	175290.00	521	16	6.90	4.44	2.19	2
12/24	175291.00	635	60	7.78	6.90	3.25	4
36/48	175292.00	635	60	7.78	6.90	3.25	4

Specifications are subject to change without notice

Low Voltage Adjustable Speed Controllers

General Specifications:

- Chassis type design
- DC input / DC output
- Speed potentiometer shipped loose
- High efficient designs increase battery life

Features:

- Sleep mode feature
- Accepts switch closure for reversing and braking
- Built-in short circuit protection
- 1.01 Form factor
- Built-in temperature sensor
- On board trim pots for calibration, speed and forward and reverse settings



Four Quadrant Control

Input Voltage	Catalog Number	List Price	Output Amps	Dimensions (inches)			App. Wgt. (lbs.)
				Length	Width	Height	
12/24	174298.00	1127	120	6.90	5.00	2.50	3
36/48	174299.00	1127	100	6.90	5.00	2.50	3

Specifications are subject to change without notice

Dual Mode - Dual Speed Controllers

- SCR Control designed to run two DC motors at the same time in either Independent mode or Slave/ Master mode
- Open chassis design
- Dual voltage, 115-230 VAC input with jumper
- Selectable 90/180 VDC output
- Jumper selectable speed and torque mode
- Two trim pots each for the minimum speed, maximum speed, IR compensation, current limit and acceleration/deceleration
- Comes standard with two potentiometers



HP	Input Voltage	Output Amps	Output Voltage	Catalog Number	List Price	App. Wgt. (lbs)
1 HP @ 90 VDC	115/230	10*	0-90/0-180	174422.00	375	3
2 HP @ 180 VDC						

Specifications are subject to change without notice

* Heat sink 174314.00 is required if one side provides more than 5A or the output on both sides is more than 6.5A.

Control Accessories

Description	Catalog Number	List Price
Inhibit Plug	900282.01	48
Speed Pot (10k/5w pot, washers & nut)	006708.01	62

Specifications are subject to change without notice



AC / DC Controls

FHP Series AC Controls

AC Adjustable Speed Drives

General Specifications:

The FHP Series volts/hertz-type AC drives are as simple to set-up and calibrate as an SCR-type DC drive.

Compact chassis design maintain industry standard mounting hole locations.

Features:

Common features for chassis and enclosed units:

- Compact size – (4.30" x 3.70")
- Output voltage on dual voltage models is jumper selectable and has voltage doubler
- Acceleration and deceleration trim pots
- Torque, maxium speed and torque limit trim pots
- Torque 'foldback' feature – Allows up to 200% torque for short periods
- 16kHz switching frequency, with option to change between 4 and 16kHz
- Adjustable torque boost for startup – Up to 200%
- Color-coded on-board LEDs for power, fault and torque limit
- Easy start/stop and direction control with enable and direction terminal connections
- Accepts speed reference from 0-5VDC isolated signal
- Speed potentiometer shipped loose
- Plug-in Process Control Module (PCM) kit available to accept 0-5VDC, 0-10VDC or 4-20mA input
- UL listed

Special features of the NEMA 4X drive:

- NEMA 4X enclosure
- Jumper selectable DC injection braking or coast to stop
- Brake time and current are adjustable
- Built-in isolation card to accept a speed reference signal
- Min speed adjustment
- Auto or manual restart after power loss

PARAMETER	SPECIFICATIONS FOR ALL FHP MODELS
Max load	150% for 5 minutes
Output frequency	0-120Hz
Output type	6 step PWM
Switching frequency	4-16kHz range* with 16kHz as factory default
Speed regulation and range	±3% of base speed; up to 50:1
On-board adjustable trim pots	Max speed, accel, decel, boost & torque limit
Adjustable maximum frequency range	32-120Hz
Adjustable accel and decel time range	1-12 seconds
Torque boost range	0-200%
LED indicators	Power (green), Fault‡ (red), Torque Limit (yellow)
Instantaneous over-current trip time	3 µsec
Analog reference input and impedance	0-5VDC isolated, ~100Kohm
Plug-in PCM isolator card input	0-5 VDC, 0-10VDC, 4-20mA
Ambient temperature range	0-40°C
Weight (Chassis Models)	1.2 lbs.
Vibration	0.5G max (20-50Hz); 0.1G max (>50Hz)
Approvals	UL, cUL

* Plug-in capacitor kit (175325.00) for field adjustments to less than 16khz
 ‡ Faults are Over-voltage, Under-voltage and Instantaneous Over Current trip



Single Phase Input / Single or Three Phase Output

HP	Input Voltage	Output Amps	Output Voltage	Catalog Number	List Price	App. Wgt. (lbs)
1/4	115	2.4	115	175320.00	383	3
1/2	230	2.4	230	175321.00	383	3
	115/230	2.4	230	175310.00	486	3
	115	4	115	175322.00	475	4
1	230	4	230	175323.00	470	4
	115/230	4	230	175311.00	615	4

Specifications are subject to change without notice

FHP Series AC Drives - Accessories

Description	Catalog Number	List Price	App. Wgt. (lbs)
Process Control Module (PCM) Kit*	175324.00	121	2
Carrier Frequency Capacitor Kit	175325.00	29	1

* PCM Kit is for use with chassis drives only.

Specifications are subject to change without notice

- NEMA 4X enclosure
- Min speed adjustment
- Jumper selectable features:
 - DC injection braking or coast to stop
 - Brake time and current are adjustable
 - Auto or manual restart after power loss
- Built-in isolation card to accept a speed reference signal



Single Phase Input / Three Phase Output

HP	Input Voltage	Output Amps	Output Voltage	Catalog Number	List Price	App. Wgt. (lbs)
1/6 - 1	115/230	4	230	175326.00	865	7

Specifications are subject to change without notice

AC / DC Controls

Micro Series AC Inverters

NEMA 1, IP31 Enclosure Protection

Features:

- Full feature, English read-out parameters
- 16 bit Intel microprocessor
- Choice of using factory "Quick Start" program settings
- Output frequency to 120 Hz. Higher frequency available
- 150% overload capacity for one minute
- Speed reference signals - potentiometer, 0-10 VDC or 4-20mA inputs
- Output signal, 0-10 VDC, speed or load
- Two auxiliary contacts, one form C relay and two open collector outputs
- 4 preset speeds
- Slip compensation
- Adjustable carrier frequency
- Adjustable acceleration and deceleration times
- Forward and reverse
- Time and voltage adjustable DC braking
- Password protected
- Constant torque-with adjustable current limit
- Steel enclosure with Aluminum heat sinks
- Dynamic braking kits available
- Remote keypads available
- PID software built-in for motor feedback
- UL Listed



NEMA 1

PDF file of Manual available at
www.leeson.com/Technical Information

NEMA 1 (IP31) • Single Phase Input / 230V Three Phase Output (Use with three phase 230V motor)

HP	Output Amps @ 230 Volts	Input Voltage	Catalog Number	List Price	App. Wgt. (lbs)	Dimension Key
1/4	1.4	115/230	174930.00	1032	5	A
1/2	2.2	115/230	174997.00	1244	7	AC
1	4	115/230	174931.00	1255	7	D
1 1/2	5.2	115/230	174932.00	1390	7	D
2	6.8	200-230	174933.00	1326	9	E
3	9.6	200-230	174934.00	1460	9	E

Specifications are subject to change without notice

Dimension Table see page 370-371

AC / DC Controls

Micro Series AC Inverters

NEMA 1, IP31 Enclosure Protection

Voltage	HP	Output Amps	Input Voltage	Catalog Number	List Price	App. Wgt. (lbs)	Dimension Key
200-240 Volts	1/2	2.2	200-240	174914.00	1093	6	B
	1	4	200-240	174915.00	1148	6	C
	1 1/2	5.2	200-240	174916.00	1203	6	C
	2	6.8	200-240	174917.00	1285	9	E
	3	9.6	200-240	174918.00	1382	9	E
	5	15.2	200-240	174919.00	1633	11	F
	7 1/2	25	200-240	174545.00	2416	13	M
	10	28	200-240	174551.00	3127	15	L
	15	42	200-240	174557.00	4126	19	N
	20	54	200-240	174560.00	5598	21	P
	25	68	200-240	174569.00	6781	38	T
	30	80	200-240	174571.00	8136	44	T
	40	104	200-240	174576.00	12533	130	AE
	60	154	200-240	174578.00	17709	185	AF
400-480 Volts	1	2	400-480	174920.00	1377	6	B
	2	3.4	400-480	174921.00	1510	7	D
	3	4.8	400-480	174922.00	1633	9	E
	5	7.6	400-480	174923.00	1837	9	E
	10	14	400-480	174552.00	3390	13	M
	15	21	400-480	174558.00	4353	15	L
	20	27	400-480	174561.00	5776	17	N
	25	34	400-480	174563.00	6810	21	P
	30	40	400-480	174565.00	7415	21	P
	40	52	400-480	174567.00	8545	35	T
	50	65	400-480	174593.00	10416	44	W
	60	77	400-480	174572.00	11444	67	W
	75	96	400-480	174580.00	14507	185	AG
	100	124	400-480	174582.00	17641	250	AH
	125	156	400-480	174584.00	19821	260	AH
	150	180	400-480	174586.00	27040	360	AL
480-590 Volts	1	1.6	480-590	174925.00	1527	6	B
	2	2.7	480-590	174926.00	1687	7	D
	3	3.9	480-590	174927.00	1864	9	E
	5	6.1	480-590	174928.00	2033	9	F
	7 1/2	9	480-590	174929.00	2485	11	I
	10	11	480-590	174553.00	3787	13	R
	15	17	480-590	174559.00	4999	17	N
	20	22	480-590	174562.00	6350	19	O
	25	27	480-590	174564.00	7499	21	P
	30	32	480-590	174598.00	8398	22	S
	40	41	480-590	174599.00	9315	38	T
	50	52	480-590	174594.00	11299	45	W
	60	62	480-590	174573.00	12641	51	W

Specifications are subject to change without notice

Dimension Table see page 370-371



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AC / DC Controls

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AC / DC Controls

Washguard® Micro Series AC Inverters

NEMA 4/12 (IP65/IP54)

Epoxy Coated

General Specifications:

- Food-safe white epoxy finish
- No external cooling fan required
- Water, oil and dust-tight enclosure protected
- Same features as Micro Series inverters as shown on previous page



WASHGUARD NEMA 4/12

Three Phase Input / Output

Voltage	HP	Output Amps	Input Voltage	Catalog Number	List Price	App. Wgt. (lbs)	Dimension Key
200-240 Volts	1/2	2.2	200-240	174935.00	1548	8	G
	1	4	200-240	174936.00	1682	8	G
	1 1/2	5.2	200-240	174482.00	1704	8	Y
	2	6.8	200-240	174937.00	1800	10	H
	3	9.6	200-240	174938.00	1948	11	J
	5	15.2	200-240	174730.00	2401	11	K
	7 1/2	22	200-240	174734.00	3331	27	Q
	10	28	200-240	174737.00	4203	32	U
	15	43	200-240	174740.00	5067	40	V
	20	54	200-240	174743.00 □	6506	42	AA
	25	68	200-240	174595.00 □	8915	53	Z
	30	80	200-240	174596.00 □	9447	53	Z
400-480 Volts	1	2	400-480	174939.00	1894	8	G
	2	3.4	400-480	174940.00	2090	10	H
	3	4.8	400-480	174941.00	2240	10	H
	5	7.6	400-480	174942.00	2475	11	J
	10	14	400-480	174554.00	4183	11	Q
	15	21	400-480	174749.00	5212	32	U
	20	27	400-480	174752.00	6683	36	V
	25	34	400-480	174755.00 □	7716	42	AA
	30	40	400-480	174757.00 □	8433	53	AA
	40	52	400-480	174513.00 □	9755	54	Z
	50	65	400-480	174511.00 □	11320	75	AB
	60	77	400-480	174574.00 □	12746	98	AB
480-590 Volts	75	96	400-480	174581.00 □	15734	200	AJ
	100	124	400-480	174583.00 □	19004	300	AP
	125	156	400-480	174585.00 □	21593	310	AO
	1	1.6	480-590	174943.00	2060	8	G
	2	2.7	480-590	174944.00	2298	10	H
	3	3.9	480-590	174945.00	2506	10	H
	5	6.1	480-590	174946.00	2698	11	J
	7 1/2	9	480-590	174549.00	3708	13	K
	10	11	480-590	174556.00	4865	17	Q
	15	17	480-590	174763.00	5876	38	U
	20	22	480-590	174766.00	7154	40	V
	25	27	480-590	174769.00 □	8532	42	AA
480-590 Volts	30	32	480-590	174597.00 □	9362	53	AA
	40	41	480-590	174512.00 □	10839	54	Z
	50	52	480-590	174510.00 □	12655	75	AB
	60	62	480-590	174575.00 □	14156	98	AB

□ Enclosures are NEMA 12 only – others are NEMA 4/12

Specifications are subject to change without notice

Dimension Table see page 370-371

NEMA 4X (IP65)
Stainless Steel

WASHGUARD NEMA 4X

General Specifications:

- 300-Series stainless steel
- No external cooling fans
- Must be protected from caustic agents
- Same features as NEMA 1 Micro Series inverters

Three Phase Input / Output

Voltage	HP	Output Amps	Input Voltage	Catalog Number	List Price	App. Wgt. (lbs)	Dimension Key
200-240 Volts	1/2	2.2	200-240	174527.00	1818	8	G
	1	4	200-240	174528.00	1950	8	G
	1 1/2	5.2	200-240	174529.00	2041	8	Y
	2	6.8	200-240	174530.00	2164	10	H
	3	9.6	200-240	174531.00	2273	11	J
	5	15.2	200-240	174732.00	3165	11	K
	7 1/2	22	200-240	174735.00	3895	27	Q
	10	28	200-240	174738.00	4858	32	U
	15	43	200-240	174741.00	5936	40	V
400-480 Volts	1	2	400-480	174532.00	2142	8	G
	2	3.4	400-480	174533.00	2428	10	H
	3	4.8	400-480	174534.00	2604	10	H
	5	7.6	400-480	174535.00	2973	11	J
	10	14	400-480	174747.00	4993	11	Q
	15	21	400-480	174750.00	5976	32	U
	20	27	400-480	174753.00	7376	36	V
480-590 Volts	1	1.6	480-590	174536.00	2328	8	G
	2	2.7	480-590	174537.00	2599	10	H
	3	3.9	480-590	174538.00	2811	10	H
	5	6.1	480-590	174539.00	3181	11	J
	7 1/2	9	480-590	174759.00	4301	13	K
	10	11	480-590	174761.00	5519	17	Q
	15	17	480-590	174764.00	6629	38	U
	20	22	480-590	174767.00	8015	40	V

Specifications are subject to change without notice

Dimension Table see page 370-371

AC / DC Controls

Washguard® Micro Series AC Inverters

NEMA 4X (IP65)

Stainless Steel

Washguard® NEMA 4X (IP65) Stainless Steel - Single Phase Input - 230 Volt Three Phase Output

(Use with three phase 230V motor)

HP	Output Amps @ 230 Volts	Input Voltage [□]	Catalog Number	List Price	App. Wgt. (lbs)	Dimension Key
1/4	1.4	115/230	174519.00	1778	8	AD
1/2	2.2	115/230	174520.00	1977	8	X
1	4	115/230	174521.00	2119	11	H
1 1/2	5.2	115/230	174517.00	2604	11	H
2	6.8	208-230	174525.00	2228	11	H
3	9.6	208-230	174526.00	2336	12	J

Specifications are subject to change without notice

Washguard[®] NEMA 4 (IP65) Epoxy Coated - Single Phase Input - 230 Volt Three Phase Output

(Use with three phase 230V motor)

HP	Output Amps @ 230 Volts	Input Voltage [□]	Catalog Number	List Price	App. Wgt. (lbs)	Dimension Key
1/4	1.4	115/230	174996.00	1439	8	AD
1/2	2.2	115/230	174998.00	1571	8	X
1	4	115/230	174999.00	1720	11	H
1 1/2	5.2	115/230	174515.00	2021	11	H
2	6.8	208-230	174475.00	1831	11	H
3	9.6	208-230	174729.00	1939	12	J

Specifications are subject to change without notice

Dimension Table see page 370-371

SM2 Series Flux Vector Series AC Inverters NEMA 1 IP21 Enclosure Protection

General Specifications:

- Designed to be used with Vector duty rated AC motors
- Open Loop Flux Vector designs
- Typical applications would include: food processing, machinery, material handling and HVAC systems
- Enclosure: NEMA1, IP21, -10 to 55°C, 2.5% derate per °C above 40°C

Standard Features:

Easy Set-up and Operation: Program the Vector control in one of four convenient ways:

- From the front of the drive
- The optional remote keypad
- A PC using TechLink software
(Available free from www.leeson.com)
- The innovative EPM programmer



Modes of operation:

- Open loop flux vector (speed or torque)
- V/Hz (constant or variable)
- Enhanced V/Hz with auto-tuning

Easy to Use Keypad & Display

6-Button Interface:

- Start
- Stop
- Forward/reverse
- Scroll up
- Scroll down
- Enter/mode

Vivid Illumination:

- 4 digit LED display
- Easy to read from a distance
- Movable decimal point

Acceleration/Deceleration Profiles:

- Two Independent accel ramps
- Two Independent decel ramps
- Linear or S-type
- Auxiliary ramp-to-stop

Output Frequency:

- 500 Hz Std., 1000 Hz optional

Selectable Logic Assertion:

- Positive logic input (PNP current sourcing)
- Negative logic input (NPN current sinking)



AC / DC Controls

SM2 Series Flux Vector Series AC Inverters NEMA 1 IP21 Enclosure Protection

Multiple Braking Functions

- Loss of follower management
- Speed commands: keypad, jog, floating point control
- Voltage: Scalable 0-10 VDC
- Current: Scalable 4-20 mA, potentiometer,
- 8 preset speeds
- Process control: PID modes: direct or reverse acting,
- PID sleep mode
- Voltage monitoring
- Current monitoring
- Real time monitoring: 8 register fault history, software version drive network ID, DC bus
- Voltage (V), motor voltage (V), output current (%)
Motor current (A), motor torque (%), power (kW)
Energy consumption (kWh), heatsink
- Temperature (°C), 0-10 VDC input (user defined), 4-20 mA input (user defined) PID feedback (user defined), analog output (% load, % torque, kW), network speed (baud rate), terminal continuity, keypad status
- Elapsed run time (hours), elapsed power on time (hours)
- Standards: UL (USA), cUL (Canada), CE (Europe), GOST (Russia/Ukraine) C-Tick (Australia/New Zealand)

Single Phase Input / 230 Volt Three Phase Output

Voltage	HP	Output Amps	Input Voltage [Ⓐ]	Catalog Number	List Price	App. Wgt. (lbs)	Dimensions H x W x D (in.)
115-230 Volts	1/3	1.7	115/230	174603.00	540	2.9	7.5 x 3.9 x 4.35
	1/2	2.4	115/230	174604.00	555	3	7.5 x 3.9 x 4.35
	1	4.2	115/230	174605.00	619	3.2	7.5 x 3.9 x 4.35
	1.5	6	115/230	174651.00	780	5	7.5 x 3.9 x 5.45

Specifications are subject to change without notice

Single or Three Phase Input / 230 Volt Three Phase Output

Voltage	HP	Output Amps	Input Voltage [Ⓐ]	Catalog Number	List Price	App. Wgt. (lbs)	Dimensions H x W x D (in.)
208-240 Volts	1/3	1.7	208/240	174606.00£	492	2.5	7.5 x 3.9 x 4.35
	1/2	2.4	208/240	174607.00	517	2.9	7.5 x 3.9 x 4.35
	1	4.2	208/240	174608.00	546	3.2	7.5 x 3.9 x 4.35
	1 1/2	6.0	208/240	174609.00	609	3.7	7.5 x 3.9 x 5.45
	2	7.0	208/240	174610.00	661	3.7	7.5 x 3.9 x 5.45
	3	9.6	208/240	174611.00	837	3.9	7.5 x 3.9 x 5.45

£ LEESON model 174606.00 is single-phase input only

Specifications are subject to change without notice



AC / DC Controls

SM2 Series Flux Vector Series AC Inverters

NEMA 1 IP21 Enclosure Protection

Three Phase Input / Output

Voltage	HP	Output Amps	Input Voltage	Catalog Number	List Price	App. Wgt. (lbs)	Dimensions H x W x D (in.)
200-240 Volts	1 1/2	6.0	200/240	174612.00	582	3.7	7.5 x 3.9 x 5.45
	2	7.0	200/240	174613.00	625	3.7	7.5 x 3.9 x 5.45
	3	9.6	200/240	174614.00	786	3.8	7.5 x 3.9 x 5.45
	5	16.5	200/240	174615.00	938	4.2	7.5 x 3.9 x 5.8
	7 1/2	23	200/240	174616.00	1252	7.3	9.83 x 5.12 x 6.3
	10	29	200/240	174617.00	1546	7.3	9.83 x 5.12 x 6.3
	15	42	200/240	174618.00	2403	20	12.33 x 6.88 x 8.08
	20	54	200/240	174619.00	2954	20	12.33 x 6.88 x 8.08
400-480 Volts	1/2	1.1	400/480	174620.00	597	3	7.5 x 3.9 x 4.35
	1	2.1	400/480	174621.00	641	3.2	7.5 x 3.9 x 4.35
	1 1/2	3.0	400/480	174622.00	694	3.6	7.5 x 3.9 x 5.45
	2	3.5	400/480	174623.00	741	3.7	7.5 x 3.9 x 5.45
	3	4.8	400/480	174624.00	872	3.7	7.5 x 3.9 x 5.45
	5	8.2	400/480	174625.00	987	4.3	7.5 x 3.9 x 5.8
	7 1/2	11	400/480	174626.00	1250	7.3	9.83 x 5.12 x 6.3
	10	14	400/480	174627.00	1544	7.3	9.83 x 5.12 x 6.3
	15	21	400/480	174628.00	2410	20	12.33 x 6.88 x 8.08
	20	27	400/480	174629.00	2963	20	12.33 x 6.88 x 8.08
	25	35	400/480	174630.00	3677	20	12.33 x 6.88 x 8.08
	30	45.0	400/480	174991.00	4,365	13.5	12.5 x 6.92 x 8.09
	40	59.0	400/480	174992.00	4,853	24	14.19 x 8.72 x 10.07
	50	74.0	400/480	174710.00	6,666	31	17.19 x 8.72 x 10.07
	60	87.0	400/480	174711.00	8,111	35	20.19 x 8.72 x 10.07
480-590 Volts	1	1.7	480/590	174631.00	738	3.2	7.5 x 3.9 x 4.35
	2	2.7	480/590	174632.00	823	3.7	7.5 x 3.9 x 5.45
	3	3.9	480/590	174633.00	951	3.8	7.5 x 3.9 x 5.45
	5	6.1	480/590	174634.00	1075	4.2	7.5 x 3.9 x 5.8
	7 1/2	9.0	480/590	174635.00	1342	7.3	9.83 x 5.12 x 6.3
	10	11	480/590	174636.00	1655	7.3	9.83 x 5.12 x 6.3
	15	17	480/590	174637.00	2655	20	12.33 x 6.88 x 8.08
	20	22	480/590	174638.00	3420	20	12.33 x 6.88 x 8.08
	25	27	480/590	174639.00	3960	20	12.33 x 6.88 x 8.08

Specifications are subject to change without notice

AC / DC Controls

SM4 Series Flux Vector Series AC Inverters NEMA 4 IP65 Enclosure Protection



General Specifications:

- Indoor use only inverter that is designed to be used with vector duty motors
- Typical applications would include : packaging machinery, food processing, conveying systems, machinery and HVAC systems
- Enclosure: NEMA 4, IP65, -10 to 55°C, derate per °C above 40°C

Standard Features:

Easy Set-up and Operation: Program the Vector control in one of four convenient ways:

- From the front of the drive
- The optional remote keypad
- A PC Using TechLink software
(Available free from www.leeson.com)
- The innovative EPM programmer

Modes of operation:

- Open Loop Flux Vector (speed or torque)
- V/Hz (constant or variable)
- Enhanced V/Hz with auto-tuning

Easy to Use Keypad & Display

6-Button Interface:

- Start
- Stop
- Forward/reverse
- Scroll up
- Scroll down
- Enter/mode

Vivid Illumination:

- 4 digit LED display
- Easy to read from a distance
- Movable decimal point

Acceleration/Deceleration Profiles:

- Two independent accel ramps
- Two independent decel ramps
- Linear or S-type
- Auxiliary ramp-to-stop

Output Frequency:

- 500 Hz Std., 1000 Hz optional

Selectable Logic Assertion:

- Positive logic input (PNP current sourcing)
- Negative logic input (NPN current sinking)

Multiple Braking Functions

- Loss of follower management
- Speed commands: keypad, jog, floating point control
- Voltage: scalable 0-10 VDC,
- Current: scalable 4-20 mA, potentiometer,
- 8 Preset speeds
- Process control: PID modes: direct or reverse acting,
- PID sleep mode
- Voltage monitoring
- Current monitoring
- Real time monitoring: 8 register fault history, software version drive network ID, DC bus
- Voltage (V), motor voltage (V), output current (%) motor current (A), motor torque (%), power (kW) energy consumption (kWh), heatsink
- Temperature (°C), 0-10 VDC input (user defined), 4-20 mA input (user defined) PID feedback (user defined), analog output (% load, % torque, kW), network speed (baud rate), terminal continuity, keypad status,
- Elapsed run time (hours), elapsed power on time (hours)
- Standards: UL (USA), cUL (Canada), CE (Europe), GOST (Russia/Ukraine) C-Tick (Australia/New Zealand)

SM4 Series Flux Vector Series AC Inverters

NEMA 4 IP65 Enclosure Protection

Single Phase Input / Three Phase Output

(Use with three phase 230V motor)

Voltage	HP	Output Amps	Input Voltage ^a	Catalog Number	List Price	App. Wgt. (lbs)	Dimensions H x W x D (in.)
115/230 Volts	1/2	2.4	115/230	174652.00	718	3.6	8.0 x 6.28 x 4.47
	1	4.2	115/230	174653.00	818	3.6	8.0 x 6.28 x 4.47
	1 1/2	6.0	115/230	174654.00	995	3.6	8.0 x 6.28 x 4.47

Specifications are subject to change without notice

Single or Three Phase Input / Three Phase Output

(Use with three phase 230V motor)

Voltage	HP	Output Amps	Input Voltage ^a	Catalog Number	List Price	App. Wgt. (lbs)	Dimensions H x W x D (in.)
208-240 Volts	1/2	2.4	208-240	174655.00	646	3.6	8.0 x 6.28 x 4.47
	1	4.2	208-240	174656.00	691	3.6	8.0 x 6.28 x 4.47
	1 1/2	6.0	208-240	174657.00	809	5.9	8.0 x 6.28 x 6.31
	2	7.0	208-240	174658.00	877	5.9	8.0 x 6.28 x 6.31
	3	9.6	208-240	174659.00	1050	7.1	8.0 x 7.12 x 6.77

Specifications are subject to change without notice

^a User programmable for 50Hz and other voltage inputs -3-phase only

Three Phase Input / Three Phase Output

Voltage	HP	Output Amps	Input Voltage ^a	Catalog Number	List Price	App. Wgt. (lbs)	Dimensions H x W x D (in.)
208-240 Volts	5	16.5	208-240	174660.00	1304	11.58	10.0 x 8.96 x 8.0
	7 1/2	23.0	208-240	174661.00 ^f	1754	10.98	10.0 x 8.04 x 8.0
	10	29.0	208-240	174662.00 ^f	2213	10.98	10.0 x 8.04 x 8.0
400-480 Volts	1/2	1.1	400-480	174671.00	773	3.6	8.0 x 6.28 x 4.47
	1	2.1	400-480	174672.00	832	3.6	8.0 x 6.28 x 4.47
	1 1/2	3.0	400-480	174673.00	900	5.9	8.0 x 6.28 x 6.31
	2	3.5	400-480	174674.00	981	5.9	8.0 x 6.28 x 6.31
	3	4.8	400-480	174675.00	1118	5.9	8.0 x 6.28 x 6.31
	5	8.2	400-480	174676.00	1386	11.58	10.0 x 8.96 x 8.0
	7 1/2	11.0	400-480	174677.00	1745	11.58	10.0 x 8.96 x 8.0
	10	14.0	400-480	174678.00 ^f	2086	10.98	10.0 x 8.04 x 8.0
480-590 Volts	1	1.7	480-590	174663.00	900	3.61	8.0 x 6.28 x 4.47
	2	2.7	480-590	174664.00	1064	5.9	8.0 x 6.28 x 6.31
	3	3.9	480-590	174665.00	1231	5.9	8.0 x 6.28 x 6.31
	5	6.1	480-590	174666.00	1522	11.58	10.0 x 8.96 x 8.0
	7 1/2	9.0	480-590	174667.00	1926	11.58	10.0 x 8.96 x 8.0
	10	11.0	480-590	174668.00 ^f	2295	10.98	10.0 x 8.04 x 8.0

^f = fan cooled - other controls are convection cooled

^a User programmable for 50Hz and other voltage inputs

Specifications are subject to change without notice

AC / DC Controls

SM Plus Sub-Micro AC Inverters IP 20 Enclosure Protection



SM PLUS

General Specifications:

- Ultra-compact designs include 18 isolated I/O terminals plus
- RS485 Modbus® serial communication

Features:

- Removable electronic programming module
- Input line voltage calibration—optimizes over and under voltage trip levels
- Current limit to 180% with frequency foldback
- Adjustable carrier frequency (4 to 10 kHz)
- Adjustable V/Hz
- Output frequency to 240 Hz
- Seven preset speeds
- Automatic restart after fault
- Control via drive face, terminal strip or optional remote keypad
- Coast or ramp to stop
- Independent accel and decel adjustment
- Forward only or forward and reverse direction
- Adjustable DC injection braking
- Speed reference: Keypad, 0-10 VDC, or 4-20 mA
- Speed reference calibration
- Speed and load indicating output signal selection: 0-10 VDC or 4-20mA
- Output signal calibration
- Fixed boost for high starting torque
- Accel boost for high torque accelerating at any speed
- Slip compensation
- Three-digit LED display
- Password protection
- Fault history: Stores eight previous trips
- Terminal status indication
- IP20 enclosure with finger safe terminals
- Dynamic braking and remote keypad kits available on pages 372 and 373

AC / DC Controls
SM Plus Sub-Micro AC Inverters
IP 20 Enclosure Protection

Single Phase Input / Three Phase Output
(Use with three phase 230V motor)

Voltage	HP	Output Amps	Input Voltage	Catalog Number	List Price	App. Wgt. (lbs)	Dimensions H x W x D (in.)
115/230 Volts	1	4.2	115/230	174492.00	966	4	B1
	1 1/2	6.0	115/230	174445.00	1090	5	B1

Specifications are subject to change without notice

Single or Three Phase Input / Three Phase Output
(Use with three phase 230V motor)

Voltage	HP	Output Amps	Input Voltage	Catalog Number	List Price	App. Wgt. (lbs)	Dimensions H x W x D (in.)
200-240 Volts	1/4	1.4	200-240	174452.00	692	2	A1
	1/2	2.2	200-240	174453.00	723	2	A1
	1	4.2	200-240	174454.00	777	3	A2
	1 1/2	6.0	200-240	174493.00	924	4	B1
	2	6.8	200-240	174494.00	1022	5	B2
	3	9.6	200-240	174495.00	1239	5	B2
	5	15.2	200-240	174444.00	1700	8	C1

Specifications are subject to change without notice

Three Phase Input / Three Phase Output

Voltage	HP	Output Amps	Input Voltage	Catalog Number	List Price	App. Wgt. (lbs)	Dimensions H x W x D (in.)
200-240 Volts	1	4.2	200-240	174455.00	716	3	A2
	1 1/2	6.0	200-240	174456.00	840	3	A3
	2	6.8	200-240	174457.00	928	4	A3
	3	9.6	200-240	174458.00	1106	4	A3
	5	15.2	200-240	174446.00	1424	4	B2
	7 1/2	22	200-240	174438.00	1946	8	C1
	10	28	200-240	174439.00	2324	8	C1
	15	42	200-240	174429.00	3009	13	D1
	20	54	200-240	174430.00	3691	14	D1
	25	66	200-240	174431.00	4373	14	D1
400-480 Volts	1/2	1.1	400-480	174459.00	806	2	A1
	1	2.1	400-480	174460.00	868	3	A2
	1 1/2	3.0	400-480	174461.00	949	3	A3
	2	3.4	400-480	174462.00	1047	4	A3
	3	4.8	400-480	174463.00	1168	4	A3
	5	7.6	400-480	174447.00	1490	5	B2
	7 1/2	11	400-480	174440.00	1946	8	C1
	10	14	400-480	174441.00	2324	8	C1
	15	21	400-480	174431.00	2950	13	D1
	20	27	400-480	174432.00	3613	14	D1
480-590 Volts	25	34	400-480	174433.00	4301	14	D1
	30	40	400-480	174500.00	4998	14	D1
	1	1.7	480-590	174464.00	928	3	A2
	2	3.0	480-590	174491.00	1112	4	A3
	3	4.2	480-590	174497.00	1320	5	B2
	5	6.6	480-590	174448.00	1615	5	B2
	7 1/2	9.9	480-590	174442.00	2097	8	C1
	10	12.2	480-590	174443.00	2485	8	C1
	15	19	480-590	174434.00	3255	8	D1
	20	24	480-590	174435.00	3980	14	D1
	25	27	480-590	174436.00	4709	14	D1

Specifications are subject to change without notice



Dimension Table see page 369

IEC Motors

DC Motors

Gearmotors

AC / DC Controls

Accessories / Kits

Mods / Factory Options

X-Ref / Index

Tech Information

Terms / Warnings

AC / DC Controls

SM Series Sub-Micro AC Inverters IP 20 Enclosure Protection



SM SERIES

General Specifications:

- For applications that require less control features that you may find in the SM-Plus series inverters
- Provides 11 isolated I/O terminals with one Form A relay output

Features:

- Removable electronic programming module
- Input line voltage calibration—optimizes over and under voltage trip levels
- Current limit to 180% with frequency foldback
- Adjustable carrier frequency (4 to 10 kHz)
- Adjustable V/Hz
- Output frequency to 240 Hz
- Seven preset speeds
- Automatic restart after fault
- Control via drive face, terminal strip or optional remote keypad
- Coast or ramp to stop
- Independent accel and decel adjustment
- Forward only or forward and reverse direction
- Adjustable DC injection braking
- Speed reference: Keypad, 0-10 VDC, or 4-20 mA
- Speed reference calibration
- Fixed boost for high starting torque
- Accel boost for high torque accelerating at any speed
- Slip compensation
- Three-digit LED display
- Password protection
- Fault history: Stores eight previous trips
- Terminal status indication
- Default parameter reset
- IP20 enclosure with finger safe terminals
- Dynamic braking and remote keypad kits available on pages 372 and 373

AC / DC Controls

SM Series Sub-Micro AC Inverters

IP 20 Enclosure Protection

Single Phase Input / Three Phase Output (Use with three phase 230V motor)

Voltage	HP	Output Amps	Input Voltage	Catalog Number	List Price	App. Wgt. (lbs)	Dimensions H x W x D (in.)
110-120 Volts	1/3	1.7	110-120	174263.00	471	2	A5
	1/2	2.4	110-120	174264.00	511	2	A5
	1	4.2	110-120	174265.00	679	3	B5
	1 1/2	6.0	110-120	174266.00	770	3	B5

Specifications are subject to change without notice

Single Phase Input / Three Phase Output (Use with three phase 230V motor)

Voltage	HP	Output Amps	Input Voltage	Catalog Number	List Price	App. Wgt. (lbs)	Dimensions H x W x D (in.)
200-240 Volts	1/3	1.7	200-240	174267.00	435	2	A5
	1/2	2.4	200-240	174268.00	459	2	A5
	1	4.2	200-240	174270.00	511	3	A6
	1 1/2	6.0	200-240	174271.00	615	4	B5
	2	7.0	200-240	174272.00	724	5	B5
	3	9.6	200-240	174273.00	851	5	B6

Specifications are subject to change without notice

Three Phase Input / Three Phase Output

Voltage	HP	Output Amps	Input Voltage	Catalog Number	List Price	App. Wgt. (lbs)	Dimensions H x W x D (in.)
200-240 Volts	1/2	2.4	200-240	174274.00	435	2	A5
	1	4.2	200-240	174276.00	484	2	A6
	1 1/2	6.0	200-240	174277.00	575	3	A7
	2	7.0	200-240	174278.00	656	3	A7
	3	9.6	200-240	174279.00	727	3	B6
	5	15.2	200-240	174288.00	927	5	B2
	7 1/2	22.0	200-240	174280.00	1281	8	C1
	10	28.0	200-240	174290.00	1303	8	C1
	15	42.0	200-240	174292.00	2343	14	D1
	1/2	1.1	400-480	174281.00	584	2	A1
400-480 Volts	1	2.1	400-480	174282.00	623	3	A2
	1 1/2	3.0	400-480	174283.00	677	3	A3
	2	3.4	400-480	174284.00	723	4	A3
	3	4.8	400-480	174286.00	792	4	B1
	5	7.8	400-480	174287.00	948	5	B2
	7 1/2	11	400-480	174285.00	1231	5	B2
	10	14	400-480	174291.00	1466	8	C1
	15	21	400-480	174293.00	1733	8	C1

□ User programmable for 50Hz and other voltage inputs
Specifications are subject to change without notice

Dimension Table see page 369



IEC Motors

DC Motors

Gearmotors

AC / DC Controls

Accessories / Kits

Mods / Factory Options

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AC / DC Controls

AC Control Kits

Dynamic Braking Components For The Micro Series Drives Micro Series Drives can be modified to include dynamic braking. The modifications involve replacing board(s) inside of the drive as well as adding a Dynamic Braking Resistor in a separate enclosure. Larger drives require a combination of Dynamic Braking Board and an additional Form C Relay Board. Instructions are included with the boards. Also available as a modification, see Mod Squad section, see page 400.

Dynamic Braking Boards*

Drive HP	Drive Voltage Rating	Catalog Number	List Price	App. Wgt. (lbs)
1/2-3	All	174184.00	429	2
5	200-230V	174185.00	467	2
5	460-480V	174185.00	467	2
5	550-575V	174184.00	429	2

* Dynamic braking resistors are required with the dynamic braking boards.

Specifications are subject to change without notice

Dynamic Braking Resistors**

Drive HP	Drive Voltage Rating	Catalog Number	List Price	App. Wgt. (lbs)
1/2	200-230V	174178.00	189	1
1	200-230V	174179.00	189	1
	460-480V	174179.00	189	1
	550-575V	174178.00	189	1
1 1/2	200-230V	174179.00	189	1
2	200-230V	174180.00	189	1
	460-480V	174180.00	189	1
	550-575V	174179.00	189	1
3	200-230V	174182.00	267	1
	460-480V	174182.00	267	1
	550-575V	174181.00	267	1
5	200-230V	174183.00	267	1
	460-480V	174183.00	267	1
	550-575V	174182.00	267	1
7 1/2	200-230V	174143.00	310	1
	460-480V	174143.00	310	1
	550-575V	174148.00	310	1
10	200-230V	174143.00	310	1
	460-480V	174143.00	310	1
	550-575V	174148.00	310	1
15-20	200-230V	174144.00	471	1
	460-480V	174144.00	471	1
	550-575V	174149.00	483	1
25-30	200-230V	174145.00	795	1
	460-480V	174145.00	795	1
	550-575V	174140.00	815	1
40	460-480V	174146.00	1037	1
	550-575V	174141.00	1037	1
50-60	460-480V	174147.00	1199	1
	550-575V	174142.00	1199	1

** Dynamic braking Resistors are provided with mounting brackets.

Specifications are subject to change without notice

Dynamic Braking Boards With Form C Relay Board*

Drive HP	Drive Voltage Rating	Catalog Number	List Price	App. Wgt. (lbs)
7 1/2	200-230V	174192.00	413	2
7 1/2	460-480V	174193.00	413	2
7 1/2	550-575V	174193.00	413	2
10-60	All	174192.00	413	2

* Dynamic braking resistors are required with the dynamic braking boards.

Specifications are subject to change without notice

AC Control Kits



Cable and Keypad are purchased separately. Installing the remote keypad and cable involves partially dis-assembling the drive. Instructions are included with the keypad. Also available as a modification, see Mod Squad section.

Remote Keypads & Cables (For Micro Series, NEMA 1, Drives*)

Item	Catalog Number	List Price	App. Wgt. (lbs)
Keypad	174177.00	248	2
2.5 ft. Cable	174174.00	73	2
5 ft. Cable	174175.00	105	2
10 ft. Cable	174176.00	170	2

* Compatible with any Micro Series, NEMA 1, drive.

NOTE: Using the remote keypad on a WASHGUARD Duty Inverter is not recommended, for the control will no longer meet NEMA 4/12 sealing requirements.

Specifications are subject to change without notice

Micro Series Dimension Information Techlink Programming and Monitoring Software

TechLink Software is a powerful Drive Configuration tool that works in a Microsoft Windows environment. TechLink supports the following drives sold by LEESON: Micro Series, SM Plus Series and SM Vector Series.

TechLink allows a drive program to be created off line and to access the drive directly while connected over RS232 or RS485 (depending on the drive). RS485 supports several drives on one drive network but will require an RS232 to RS485 converter for most personal computers.

First time users visit LEESON's website, under "Links and Downloads" to download TechLink Software.

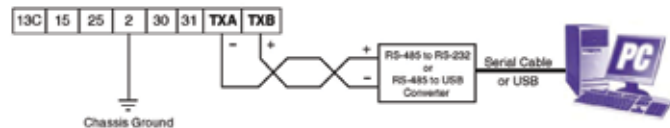
LEESON frequently updates Techlink software and the Models files to keep current with our expanding product offering and upgrades to our existing lines. If you have Techlink software installed on your computer and would like to check to see if you have the most current version of the TechLink program or the Models data, check the versions on the opening TechLink screen to the versions below. You will only need to download the program that has been updated. Each program below is a self extracting zip file; after expanding, run setup.exe to install.

The diagrams below illustrate how to connect the LEESON Micro Series, SM Plus and SM Vector Series drives to a computer in order to use the TechLink software.

Note 1: When using serial communications, terminal 2 on the drive MUST be connected to chassis ground.

SM Plus & SM Vector Series

The SM Plus and SM Vector Series drives are RS-485, so a RS-232 to RS-485 or USB to RS-485 converter is required. The converter connects to the computer using a standard serial connection. A twisted pair connects the converter to the drive.

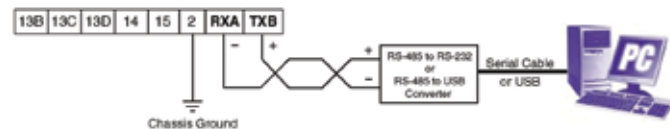


SM Plus & SM Vector Series Control Strip

Note 2: Refer to the converter manufacturer's instructions for proper converter configuration. The converter is not supplied by LEESON.

Micro Series

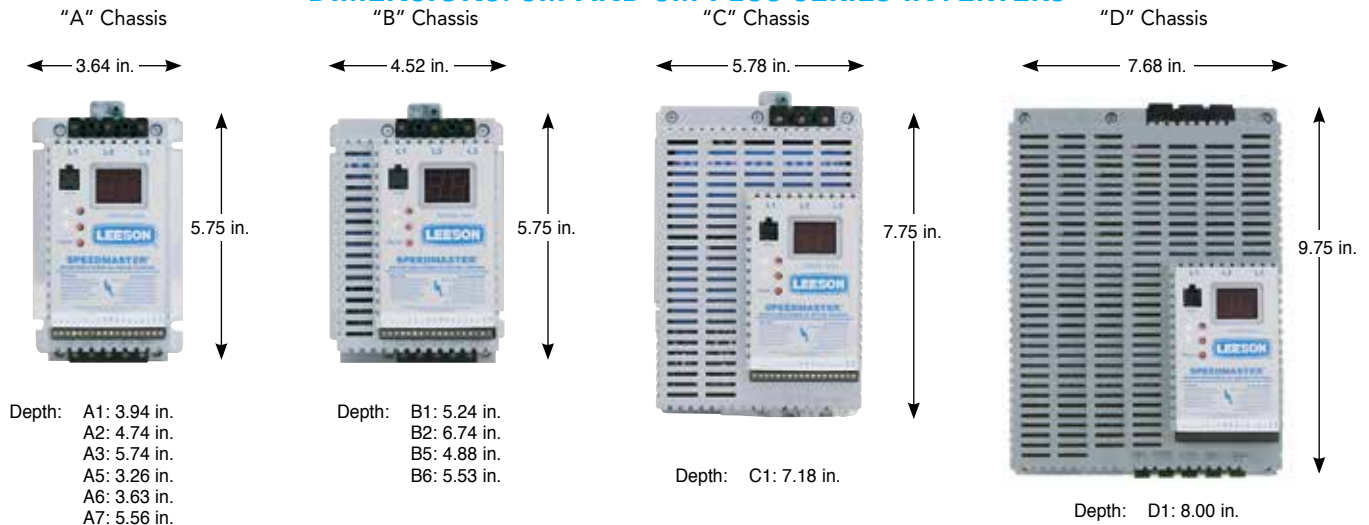
The Micro Series is RS-485, so a RS-232 to RS-485 or USB to RS-485 converter is required. The converter connects to the computer using a standard serial or USB connection. A twisted pair connects the converter to the drive.



Micro Series Control Strip

Note: 3 Refer to the converter manufacturer's instructions for proper converter configuration. The converter is not supplied by LEESON.

DIMENSIONS: SM AND SM PLUS SERIES INVERTERS



Dimensions shown for reference only. Contact LEESON for detailed drawing.

PDF file of Manual available at www.leeson.com/Technical Information

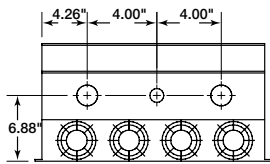
Specifications are subject to change without notice



AC / DC Controls

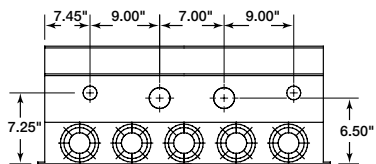
Dimension Information for Micro Series Drives

CONDUIT HOLES FOR 174578.00



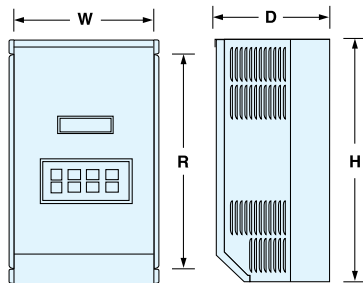
Conduit Holes: Large holes = 1.75"
Small hole = 1.13"

CONDUIT HOLES FOR 174586.00

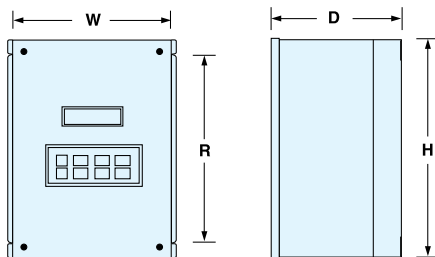


Conduit Holes: Large holes = 3.00"
Small holes = 1.13"

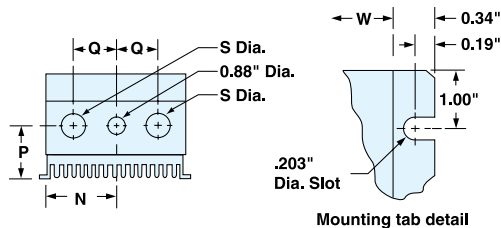
NEMA 1 ONLY



NEMA 4/12
WASHGUARD ONLY



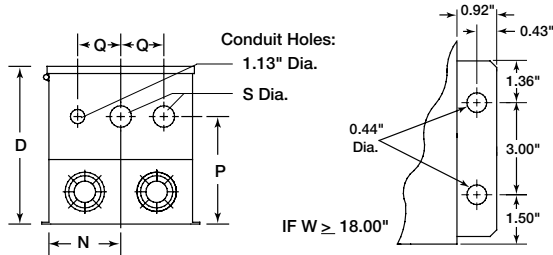
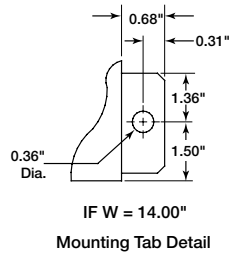
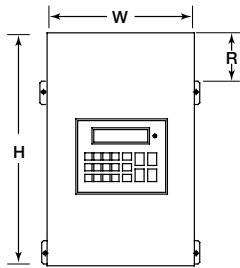
NEMA 1 & NEMA 4/12



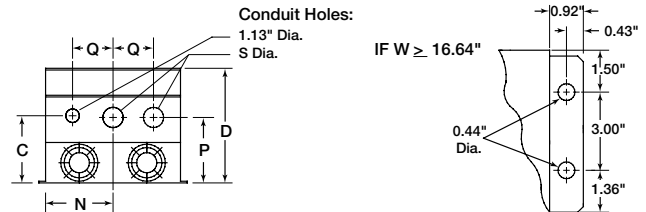
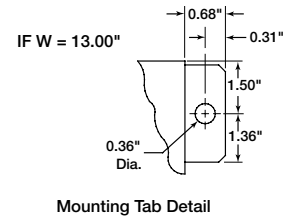
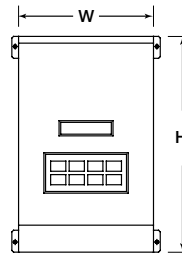
Micro Series Inverter - Dims. (Inches) -
NEMA 1, NEMA 4/12 & NEMA 4X

Dimension Key	H	W	D	N	P	Q	R	S
A	7.5	4.7	3.33	2.35	1.6	1.37	5.5	0.88
B	7.5	4.7	3.63	2.35	1.9	1.37	5.5	0.88
C	7.5	4.7	4.33	2.35	2.6	1.37	5.5	0.88
D	7.5	6.12	4.22	3.77	2.4	1.37	5.5	0.88
E	7.5	6.12	5.12	3.77	3.3	1.37	5.5	0.88
F	7.88	7.86	5.94	5.13	3.95	1.5	5.88	1.13
G	7.88	6.12	4.35	3.06	2.7	1.37	5.88	0.88
H	7.88	7.86	4.9	4.8	3.25	1.37	5.88	0.88
I	9.38	7.86	6.25	5.13	3.95	1.5	7.38	1.13
J	7.88	7.86	5.9	4.8	4.25	1.37	5.88	0.88
K	9.75	10.26	7.2	5.13	5.25	2	7.75	1.13
L	11.25	7.86	6.84	3.93	4.19	2	7.75	1.38
M	9.38	7.86	6.84	3.93	4.19	2	5.88	1.13
N	12.75	7.86	6.84	3.93	4.19	2	9.25	1.38
O	12.75	7.86	7.4	3.93	4.19	2	9.25	1.38
P	12.75	10.26	7.74	5.13	5	2.5	9.25	1.38
Q	11.75	10.26	8.35	5.13	5.75	2	9.75	1.13
R	9.38	7.86	7.4	3.93	4.19	2	5.88	1.13
S	12.75	10.26	8.25	5.13	5	2.5	9.25	1.38
T	15.75	10.26	8.35	5.13	5.75	2.5	12.25	1.38
U	13.75	10.26	8.35	5.13	5.75	2	11.75	1.38
V	15.75	10.26	8.35	5.13	5.75	2	13.75	1.38
W	19.75	10.26	8.55	5.13	5.75	2.5	16.25	1.75
X	7.88	7.86	3.75	4.8	2.1	1.37	5.88	0.88
Y	7.88	6.12	5.25	3.06	3.6	1.37	5.88	0.88
Z	20.25	10.26	8.35	5.13	5.75	2	16.25	1.38
AA	15.75	10.26	8.35	5.13	5.75	2	11.75	1.38
AB	21	13.72	8.35	5.13	6.1	2	16.25	1.38
AC	7.5	6.12	3.63	3.77	1.8	1.37	5.5	0.88
AD	7.88	6.12	3.63	3.06	2	1.37	5.88	0.88
AE	25	13	10.5	5.56	6.5	2.62	-	1.38
AF	47	16.64	11.85	SEE CHART				
AG	29	16.64	11.85	7.14	6.88	3.12	-	1.75
AH	29	24.42	11.85	11.12	6.5	4.5	-	2.5
AI	29	36.66	11.85	11.5	9	4.5	-	2.5
AJ	37	18	13.3	7.5	8	3.13	7.14	1.75
AK	39	26	13.3	11.5	9	4.5	9.14	2.5
AL	29	36.66	11.85	SEE CHART				
AM	31	14	11.86	6	7.5	2.62	5.64	1.38
AN	49	18	13.3	7.5	8	3.13	7.14	1.75
AO	39	26	13.3	11.5	9	4.5	9.14	2.5

Type 12 Dimensions for models rated above 30HP at 240/200 VAC and 60 HP at 400/480 VAC



Type 1 Dimensions for models rated above 30HP at 240/200 VAC and 60 HP at 590/480/400 VAC



Electronic Programming Unit

Electronic Programming Unit allows off-line set-up and replication of the drive's plug-in electronic programming module (shown at right). Excellent for multi-drive applications. Keypad input and alphanumeric display simplify programming. RS-232 serial port allows downloading of configuration files from personal computer.



Catalog Number	List Price	App. Wgt. (lbs)
174189.00	883	2

EPM Bulk Pack

Plug-in electronic programming modules (EPM). Allow off-line set-up and replication of program using Electronic Programming Unit. Set of 10.

Catalog Number	List Price	App. Wgt. (lbs)
174190.00	195	1

Specifications are subject to change without notice



Inverter Accessory Parts

Discriptor	Catalog Number	List Price
Micro Series Keypad	006707.01	59
Speed Pot (10k/5w pot, washers & nut)	006708.01	62

Specifications are subject to change without notice



AC / DC Controls

AC Control Kits

Accessories For The SM, SM-Plus & SM Vector Series Drives



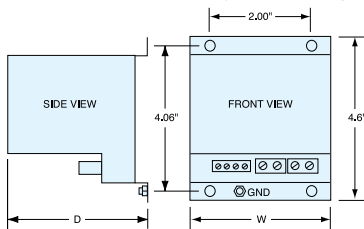
Dynamic Braking Modules With Built-in Dynamic Braking Resistors[□]

Dynamic Braking Components for the SM, SM-Plus & SM Vector Series Drives Dynamic braking is available for the SM, SM-Plus and SM Vector series drives as a separate Dynamic Braking Module. Lower HP modules have the control electronics and the dynamic braking resistor in one convenient package. Larger units require a separate resistor. The modules can be panel or DIN rail mounted.

Drive HP	Motor Voltage Rating	Catalog Number	List Price	App. Wgt. (lbs)
1/4-1/2	208-230V	174400.00	319	2
	400-480V	174406.00	319	2
1 - 1 1/2	208-230V	174401.00	371	3
	400-480V	174407.00	371	3
1 - 1 1/2	480-590V	174412.00	371	3
	208-230V	174402.00	503	4
2 - 3	400-480V	174408.00	503	4
	480-590V	174413.00	503	4
	400-480V	174403.00	657	5
5	400-480V	174409.00	657	5
	480-590V	174414.00	657	5
7 1/2	208-230V	174404.00	831	6
	400-480V	174410.00	831	6
	480-590V	174415.00	831	6
10	208-230V	174405.00	1003	8
	400-480V	174411.00	1003	8
	480-590V	174416.00	1003	8

[□] Braking Resistors are included with the module and not purchased separately.

Specifications are subject to change without notice



Dynamic Braking Modules Without Resistors*

Drive HP	Motor Voltage Rating	Catalog Number	List Price	App. Wgt. (lbs)
15-20	208-230V	174417.00	429	10
15-30	400-480V	174418.00	429	10
15-25	480-590V	174419.00	429	10

* Dynamic Braking Resistors are purchased and mounted separately.
Specifications are subject to change without notice

Accessories For The SM2 Flux Vector Series Drives Dynamic Braking Components for the SM2 Vector Series Drives



Dynamic Braking Modules With Built-in Dynamic Braking Resistors[□]

Dynamic Braking Components for the SM2 Vector Series Drives Dynamic braking is available for the SM2 Vector Series drives as a separate Dynamic Braking Module. 10 HP and lower modules have control electronics and the dynamic braking resistor in one convenient package. Larger units require a separate resistor. The modules can be panel or DIN rail mounted.

Drive HP	Motor Voltage Rating	Catalog Number	List Price	App. Wgt. (lbs)
1/3-1/2	208 - 230V	174157.00	311	2
	400 - 480V	174158.00	311	2
1 - 1 1/2	208 - 230V	174151.00	363	3
	400 - 480V	174152.00	363	3
	480 - 590V	174153.00	363	3
2 - 3	208 - 230V	174154.00	495	4
	400 - 480V	174155.00	495	4
	480 - 590V	174156.00	495	4
5	208 - 230v	174159.00	645	5
	400 - 480V	174160.00	645	5
	480 - 590V	174161.00	645	5
7 1/2	208 - 230V	174162.00	814	6
	400 - 480V	174163.00	814	6
	480 - 590V	174164.00	814	6
10	208 - 230V	174165.00	983	8
	400 - 480V	174166.00	983	8
	480 - 590V	174167.00	983	8

[□] Braking Resistors are included with the module and not purchased separately.

Specifications are subject to change without notice

Dynamic Braking Resistors**

Drive HP	Motor Voltage Rating	Catalog Number	List Price	App. Wgt. (lbs)
15-20	208-230V	174144.00	471	1
15-20	400-480V	174144.00	471	1
15-20	480-590V	174149.00	483	1
15-30	400-480V	174145.00	795	1
25	480-590V	174140.00	815	1

** Dynamic Braking Resistors are provided with mounting brackets.

Specifications are subject to change without notice

DIN Rail - Mounting Kits

Steel plates and fasteners for mounting drives on standard 35mm DIN rails for panel building. Set of six.
 174186 for "A" chassis drives.
 174187 for "B" chassis drives.
 174188 for "C" chassis drives.

Catalog Number	List Price	App. Wgt. (lbs)
174186.00	181	3
174187.00	203	3
174188.00	242	3



IEC Motors

DC Motors

Gearmotors

AC / DC Controls

Accessories / Kits

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SM4 Remote Keypad

Potentiometer Kit takes the place of the up/down buttons on the drive's keypad gives operators hands-on speed control over the Inverter's speed range

Use with Width (W) dim. of:	Catalog Number	List Price	App. Wgt. (lbs)
6.28 or 7.12	174693.00	152	2
8.04 or 8.96	174697.00	157	2

Specifications are subject to change without notice



Remote Keypad

Remote keypad kit includes eight-foot connecting cable and gasket. Mounted in proper enclosure, the keypad kit will provide up to NEMA 4 protection.

Drive Type	Catalog Number	List Price	App. Wgt. (lbs)
SM Plus	174191.00	255	2
SM Series	174194.00	207	2
SM Vector	174306.00	255	2
SM2 Vector	174150.00	250	2

Specifications are subject to change without notice



3.375 "

2.156 "

Accessories / Kits

NEMA D Flange Kits - LEESON Motors Only



Motor Accessories - Field Installed Steel and Cast Iron Frame Motors

Includes parts to convert a rigid base mounted motor to NEMA D face with base.

Shaded frame indicates cast iron motor kits for 150 and 170 series motors.

NOTE: The D Flange Kits can only be used on rigid base motors. They will not fit NEMA C face motors.

Frame	Enclosure	D Flange Kit Catalog Number	List Price	App. Wgt. (lbs.)	♥ Notes
143T-145T	Enclosed	163115.60	141	6	
182T-184T	Open / Enclosed	175694.00	275	12	D
	Open	175101.00	262	13	G
	Enclosed	175658.60	291	12	G
213T-215T	Enclosed	175807.60	291	14	
	Open	175114.60	429	14	
	Enclosed	175115.60	429	14	G
	Enclosed	175959.60	429	14	
254T-256T	Open	175116.60	550	25	
	Enclosed	175192.60	550	25	
284T-286T	Open	175118.60	657	42	
	Enclosed	175119.60	657	52	
324T-326T	Open	175120.60	842	57	G
	Enclosed	175121.60	842	57	
	Enclosed	175455.60	1,140	57	
364T-365T	Open	175955.60	993	72	
	Enclosed	175657.60	993	72	
	Open	175602.60	1,240	72	
	Enclosed	175604.60	1,240	72	
404T-405T	Open 4 & 6-pole	175956.60	1,379	90	I
	Enclosed	175957.60	1,379	90	
444T-445T	Open 4 & 6-pole	175607.60	1,597	106	I
	Enclosed 4 & 6-pole	175608.60	1,597	106	I

Green items Are For Premium Efficient Motors Only

Shaded frames are for Cast Iron Motors

Specifications are subject to change without notice

♥ Notes:

- D Use this kit for 182-4T and S213T motors with catalog numbers 131454.00 and higher, or with a G prefix.
- F For use with 213T-215T 3600 RPM motors only.
- G Not for use with Premium efficient motors
- H WATTSaver® II design built 2007 and later
- I For use with 1200 and 1800 RPM motors only.



Accessories / Kits

NEMA C Face Kits

Motor Accessories - Field Installed

LEESON - Steel Frame Motors

Includes parts to convert a rigid base mounted motor to NEMA C face with base.
 The C Face Kits cannot be used as replacements on a factory-produced C face motor.
 For motors with Catalog Numbers 092000.00–140999.00

Frame	Enclosure	Catalog Number	List Price	App. Wgt. (lbs.)	♥ Notes
42	Open / Enclosed	175661.00	57	2	
48	Open / Enclosed	175969.00	57	2	A
		175646.00	57	2	B
S56	Open	175000.00	57	2	
	Enclosed	175180.00	57	2	
	Open / Enclosed	175297.00	57	2	A
	Open / Enclosed	175647.00	57	2	B
56	Open	175075.00	68	2	
	Enclosed	175076.00	68	2	
56	Enclosed	LM24808	68	2	G
	Enclosed	LM24810	68	2	H
143T-145T	Open	175181.00	68	2	
	Enclosed	175077.00	68	2	
182T-184T	Open / Enclosed	175691.00	82	3	D
182T-184T Special	Open / Enclosed	175294.00	82	5	E
S213T	Open / Enclosed	175693.00	156	2	D
213T-215T	Open	175845.00	156	19	
(1750, 1140, & 850 RPM)	Enclosed	175844.00	156	15	
213T-215T	ODP	175303.00	146	15	F
(3450 RPM)	Enclosed	175304.00	146	15	F

Specifications are subject to change without notice

- 1) When changing a rigid mount motor to C Face motor, a non-NEMA BA dimension may result.
- 2) Some larger HP 56-frame motors have larger shaft-end bearings and require a 143T-145T C Face kit.

♥ Notes:

- A For use with motors having "K" or "P" suffix on date code.
- B For motors manufactured after January 1, 2007, having a "B" suffix letter after the motor's date code.
- D Use this kit for 182-4T and S213T motors with catalog numbers 131454 and higher, or with a G prefix.
- E Converts a 182T-184T frame motor to the C-face dimensions of a 143T-145T or 182U-184U frame motor –
- F For use with 213T-215T 3600 RPM motors only.
- G For use with new Industrial AG motors that start with "117"
- H For use with 56HZ Industrial AG motor 117867.00

Accessories / Kits

NEMA C Face Kits

Motor Accessories - Field Installed

Lincoln - Steel Frame Motors

Models - SREW, SSEW, SRD, SSD, SRF, SSF, SF

Frame	SYN RPM	Enclosure	Catalog Number	List Price	App. Wgt. (lbs.)	♥ Notes
56	All	SREW, SRD	LM24631	68	2	1
56	All	SREW, SRD	LM24807	68	2	2
56	All	SRF	LM24808	68	2	1
56	All	SRF	LM24810	68	2	2
143T-145T	All	SSEW, SSD	LM24807	68	2	2
143T-145T	All	SSF	LM24810	68	2	2
182T-184T	All	SSF	LM25736	131	12	
182T-184T	All	SSEW, SRD, SSF	175691.00	82	3	4
213T-215T	All	SSEW, SSD	LM25737	155	15	
213T-215T	All	SSF	LM25738	155	12	
254T-256T	All	SSD	LM25740	199	13	
284T/TS-286T/TS	2 & 6-Pole	SD	LM24062	370	20	3
324T/TS-326T/TS	All	SD	LM24063	481	47	
324T/TS-326T/TS	All	SF	LM24057	535	33	
364T/TS-365T/TS	All	SD	LM24064	806	53	
364T/TS-365T/TS	All	SF	LM24058	806	33	
404T/TS-405T/TS	All	SD	LM24065	1061	55	
404T/TS-405T/TS	All	SF	LM24059	1061	53	
444T/TS-445T/TS	3600	SD	LM24066	1159	80	
444T/TS-445T/TS	1200 & 1800	SD	LM24067	1159	88	
444T/TS-449T/TS	3600	SF	LM24060	1283	98	
444T/TS-445T/TS	1800 & 1200	SF	LM24061	1283	98	
447T/TS-449T/TS	3600	SD	LM24068	1283	98	
447T/TS-449T/TS	1200 & 1800	SD	LM24069	1283	98	
447T/TS-449T/TS	1200 & 1800	SF	LM32293	1271	98	

Specifications are subject to change without notice

When changing a rigid mount motor to C Face motor, a non-NEMA BA dimension may result.

♥ Notes:

- 1 - 56 frames with 203 drive end bearing
- 2 - 56 & 143/5T frame motors with a 205 drive end bearing
- 3 - For 2-Pole and 6-Pole motors
- 4 - Motors built having the letter "M" after the date code

Motor Accessories - Field Installed LEESON - Ultimate E Cast Iron Motors

Includes parts to convert a rigid base mounted motor to NEMA C face with base.
The C Face Kits cannot be used as replacements on a factory-produced C face motor.
LEESON Ultimate E "199" Series Cast Iron and Rolled Steel Motors

Frame	Enclosure	Catalog Number	List Price	App. Wgt. (lbs.)	♥ Notes
182T-184T	TEFC	176024.00	186	14	A
182T-184T	ODP	176064.00	79	14	A
213T-215T	TEFC	176025.00	186	22	A
213T-215T	ODP	176065.00	125	22	A
254TS-256TS	TEFC	176026.00	284	32	B
254T-256T	TEFC	176027.00	284	32	C
254TS-256TS	ODP	176066.00	256	32	B
254T-256T	ODP	176067.00	256	32	C
284TS-286TS	TEFC	176028.00	394	38	B
284T-286T	TEFC	176029.00	394	38	C
284TS-286TS	ODP	176068.00	396	38	B
284T-286T	ODP	176069.00	396	38	C
324TS-326TS	TEFC	176030.00	511	45	B
324T-326T	TEFC	176031.00	511	45	C
324TS-326TS	ODP	176070.00	511	45	B
324T-326T	ODP	176071.00	511	45	C
364TS-365TS	TEFC	176032.00	698	85	B
364T-365T	TEFC	176033.00	698	85	C
364TS-365TS	ODP	176072.00	687	85	B
364T-365T	ODP	176073.00	687	85	C
404TS-405TS	TEFC	176034.00	879	175	B
404T-405T	TEFC	176035.00	879	175	C
404TS-405TS	ODP	176074.00	637	95	B
404T-405T	ODP	176075.00	637	95	C
444TS-445TS	TEFC	176036.00	1,230	225	B
444T-445T	TEFC	176037.00	1,230	225	C
444TS-445TS	ODP	176076.00	1,116	140	B
444T-445T	ODP	176077.00	1,162	140	C
447TS	TEFC	176038.00	1,360	250	B
447T-449T	TEFC	176039.00	1,360	225	C

Specifications are subject to change without notice

When changing a rigid mount motor to C Face motor, a non-NEMA BA dimension may result.

♥ Notes:

A - All Poles

B - 2-pole only

C - 4 & 6-pole only

Accessories / Kits

NEMA C Face Kits

Motor Accessories - Field Installed

LEESON - Cast Iron Motors

Includes parts to convert a rigid base mounted motor to NEMA C face with base.
The C Face Kits cannot be used as replacements on a factory-produced C face motor.
For 150, G150 and 170 Series Cast Iron Motors Only

Frame	Enclosure	Catalog Number	List Price	App. Wgt. (lbs.)	♥ Notes
143T-145T	Enclosed	163116.60	141	6	
182T-184T	Enclosed	175805.60	186	12	
	Enclosed	175804.60	186	15	
213T-215T	Open	175066.60	186	15	
	Enclosed	175068.60	186	15	G
	Enclosed	175869.60	186	25	
254T-256T	Open	175067.60	284	25	
	Enclosed	175191.60	284	42	
284T/TS-286T/TS	Open	175058.60	394	42	
	Enclosed	175061.60	394	57	
324T/TS-326T/TS	Open	175059.60	511	57	G
	Open	175454.60	511	57	
	Enclosed	175062.60	511	75	
364T/TS-365T/TS	Open	175060.60	855	49	
	Enclosed	175063.60	855	75	
	Open	175601.60	855	75	H
	Enclosed	175603.60	855	60	H
404T/TS-405T/TS	Open	175605.60	1124	60	
	Enclosed	175199.60	1124	115	
444T/TS-445T/TS	Open	175606.60	1230	115	
	Enclosed	175664.60	1230	112	
447T/TS-449T	Enclosed 4 & 6-pole	175958.60	1,360	115	
	Enclosed 2-pole	176004.60	1,360	115	

Green items Are For Premium Efficient Motors Only

Specifications are subject to change without notice

When changing a rigid mount motor to C Face motor, a non-NEMA BA dimension may result.

♥ Notes:

G - Not for use with Premium efficient motors

H - For 364T/TS -365T/TS frame motors built 2007 and later



IEEE-841 Motors C Face Kits

Frame	Catalog Number	List Price	App. Wgt. (lbs.)	♥ Notes
145T	175787.00	196	7	
182T-184T	175788.00	292	10	
213T-215T	175789.00	350	16	
254T-256T	175790.00	414	35	
284T/TS-286T/TS	175791.00	540	47	
324T/TS-326T/TS	175794.00	625	89	
364T-365T	175795.00	984	95	
364TS-365TS	175796.00	863	91	
404T-405T	175797.00	1099	129	
444T-445T	176056.00	1893	175	Model #s containing THFS
444TS-445TS	176057.00	1893	108	Model #s containing TSHFS
444T-445T	176058.00	1893	201	Model #s containing THFN
444TS-445TS	176059.00	1893	199	Model #s containing TSHFN

When changing a rigid mount motor to C Face motor, a non-NEMA BA dimension may result.
Specifications are subject to change without notice

Motor Accessories - Field Installed

Lincoln - Cast Iron Frame Motors

Frame	SYN RPM	Enclosure	Catalog Number	List Price	App. Wgt. (lbs.)	♥ Notes
143T	All	CCN, CCF, CCS	LM24811	68	7	
145T	All	CCN, CCF, CCS	LM24815	81	7	
182T-184T	All	CCF, CCS	LM25736	131	12	
182T-184T	All	CCF	175805.60	186	12	5
213T-215T	All	CCF, CCS	LM25739	155	20	
213T-215T	All	CCF	175869.60	186	15	5
254T-256T	All	CCF, CCS	LM27681	267	36	
254T-256T	All	CCD	LM31014	199	15	
254T-256T	All	CCF	175191.60	284	25	5
284T-286T	All	CCF, CCS	LM27576	370	42	
284T/TS-286T/TS	All	CCD	LM31019	370	35	
284T/TS-286T/TS	All	CCF	175061.60	394	42	5
324T/TS-326T/TS, 324U/US-326U/US	All	CCF, CCS	LM28624	535	78	
324T/TS-326T/TS	All	CCF	175062.60	511	57	5
364T-365T	All	CCF, CCS	LM32284	806	78	
364T/TS-365T/TS	All	CCF	175603.60	855	75	5
364TS-365TS	All	CCF, CCS	LM32285	847	78	
364U-365U	All	CCF, CCS	LM32286	847	78	
404T-405T, 404U-405U	All	CCF, CCS	LM28501	1061	85	
404TS-405TS	All	CCF, CCS	LM32288	1115	85	
404T/TS-405T/TS	All	CCF	175199.60	1124	60	5
444T-445T	All	CCF, CCS	LM32290	1150	96	
444TS-445TS	All	CCF, CCS	LM32291	1150	96	
444T/TS-445T/TS	All	CCF	175664.60	1230	115	
447T-449T	All	CCF, CCS	LM32292	1271	98	
447T-449T	1800 & 1200	CCF, CCS	LM32293	1271	98	
447T-449T	1800 & 1200	CCF	175958.60	1360	112	5
447TS-449TS	3600	CCF	176004.60	1360	112	5

Green items Are For Premium Efficient Motors Only

Specifications are subject to change without notice

When changing a rigid mount motor to C Face motor, a non-NEMA BA dimension may result.

♥ Notes

5 For Lincoln CI motors that start with LM6 and model numbers ending with AP21



Accessories / Kits

NEMA C Face Kits

Motor Accessories - Field Installed

Lincoln - Aluminum Frame Motors

Frame	SYN RPM	Enclosure	Catalog Number	List Price	App. Wgt. (lbs.)	♥ Notes
182T-184T	All	AAF	LM26679	155	10	
182T-184T	All	AAF	175691.00	82	10	6
213T-215T	All	AAF	LM30146	180	15	
254U-256U	All	AF/AAF	LM30147	267	26	
284T/TS-286T/TS	All	AF/AAF	LM20116	370	28	

Specifications are subject to change without notice

NOTE: When changing a rigid mount motor to C Face motor, a non-NEMA BA dimension may result.

♥Notes

6 For Lincoln AL motors where the model numbers end with AP26

Kits and Accessories

Rodent Screen Kits

Frame	Enclosure	Catalog Number	List Price	App. Wgt. (lbs.)
182T-184T	Open	175872.00	134	1
213T-215T	Open	175871.00	241	1
254T-256T	Open	175873.00	347	2
284T-286T	Open	175874.00	347	3
324T	Open	175894.00	813	5
326T	Open	175875.00	813	4

Shaded frames are for Cast Iron Motors

Specifications are subject to change without notice

Chemical Service/ Severe Duty Conversion Kits

Wattsaver^e



For use with LEESON Cast Iron **Wattsaver^e** motors and "G15" Series motors.

Cast iron fan covers for cast iron motors. Designed to easily convert TEFC motors to all cast iron construction. All these motors have inert, corrosion resistant fiber filled thermoplastic fan as standard. Kit includes one cast iron fan cover.

NEMA Frame	IEC Frame	Catalog Number	List Price	App. Wgt. (lbs.)
182T-184T	---	175663.60	220	10
213T-215T	---	175050.60	320	12
254T-256T	160	175051.60	430	18
284T-286T	180	175052.60	752	22
324T-326T	200	175053.60	785	29
364T-365T	225	175054.60	1172	39
404T-405T	250	175055.60	1277	49
444T-445T	280	175056.60	1446	59
447T-449T	---	175891.60	1446	112

Specifications are subject to change without notice





Accessories / Kits

Drip-Cover Kits

For Drip-Proof Motors - LEESON Motors Only

Each kit includes one drip-cover. Designed to protect drip-proof motors from rain, snow and ice when mounted outdoors in a vertical position.

NEMA Frame	Catalog Number	List Price	App. Wgt. (lbs.)	♥ Notes
48-S56	175003.00	54	2	
	175298.00	54	2	A
56	175004.00	62	2	
143T-145T	175792.00	62	2	A
182T-184T	175614.00	78	3	
	175961.00	72	3	
213T-215T	175846.00	110	12	
	175305.00	110	12	F
213T-215T	175962.00	110	4	
254T-256T	175963.00	140	7	

Shaded frames are for Cast Iron Motors

Specifications are subject to change without notice

♥Notes

A For use with motors having "K" or "P" suffix on date code

F For use with 213T-215T 3600 RPM motors only

Lint-Cover / Drip-Cover Kit For TEFC Motors - LEESON Motors Only

NEMA Frame	Catalog Number	List Price	App. Wgt. (lbs.)	♥ Notes
56-143T-145T	175024.00	96	2	
	175778.00	96	2	J
182T-184T	175695.00	186	3	D
213T-215T	175849.00	110	12	K

For Steel Frame Motors Only

Specifications are subject to change without notice

♥Notes

D Use this kit for 182-4T and S213T motors with catalog numbers 131454.00 and higher or with a G prefix

J For motors having face mounted fan guard

K For use with 1800 RPM motors only



Lint-Cover / Drip-Cover Kit For Cast Iron - TEFC Motors - LEESON Motors Only

Wattsaver and "G15" Series Motors

NEMA Frame	Catalog Number	List Price	Add. Motor Length (inches)
TEFC 210 frame	176044.60	165	2.0
TEFC 250 frame	176045.60	235	2.0
TEFC 280 frame	176046.60	316	2.0
326T - 2-pole	176053.60	431	2.2
TEFC 320 frame 4 & 6-pole	176047.60	431	2.2
TEFC 360 frame (small stator)	176048.60	524	2.4
TEFC 360 frame (Motors built after 2007)	176049.60	702	2.8
TEFC 400 frame	176050.60	702	2.8
TEFC 440 frame 2-pole	176051.60	797	3.2
440 - 4 & 6-pole	176054.60	797	3.2
TEFC 447/9 frame 2 pole	176052.60	858	3.6
447/9T - 4 & 6-pole	176055.60	858	3.6

For use with Catalog numbers that begin with "17" or "G15."

Specifications are subject to change without notice



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JP Pump Drip Cover Kits

NEMA Frame	Enclosure	Catalog Number	List Price	♥ Notes
56-145JP	ODP or TEFC	175932.00	34	
182JP-184JP	ODP	175933.00	38	
213JP-215JP	ODP	175305.00	110	L

Specifications are subject to change without notice

♥Notes:

L For use with 213T-215T (213JP-215JP) 3600 RPM motors only

Motor Accessories - Blower Fan Kits Field Installed LEESON Motors Only



These kits are used for converting LEESON motors to totally enclosed blower cooled motors. Cooling per MG1.6 (IC46) The kits are designed for inverter and vector drive applications where continuous cooling is required regardless of motor shaft speed. The kit is mounted on the back of the motor after removing the fan guard and fan. Modifying the shaft is not required.

For use with Rolled Steel TEFC Motors only

Blower Voltage	Blower Motor Phase	NEMA Frame	Catalog Number	List Price	CFM	App. Wt. (lbs.)
115	1	56-145T	175876.00	844	115	4
115	1	56-145T	175775.00^	844	115	4
115	1	182-4T	175895.00	946	115	4
115	1	213-5T	175896.00	988	235	5

^ For 56/145T motors having face mounted (plastic) fan guards.

Specifications are subject to change without notice

For use with 150, G150 & 170 Series Cast Iron TEFC Motors only

Blower Voltage	Blower Motor Phase	NEMA Frame	Catalog Number	List Price	CFM	App. Wt. (lbs.)
115	1	182-4T	175674.00	946	260	10
115	1	213-5T	175675.00	988	260	11
115	1	254-6T	175676.00	1061	260	17
115	1	284-6T	175677.00	1275	500	24
115	1	324-6T	175678.00	1359	500	28
230/460	3	360T	175879.00	2821	500	35
230/460	3	360T	176002.00 ♦	3130	500	35
230/460	3	400T	175880.00	3130	500	45
230/460	3	444T/445T	175558.00	3582	500	55

♦ Use with 360T frame motors built 2007 and later

Specifications are subject to change without notice





Accessories / Kits

Encoder Kits - LEESON Motors Only

Specifications:

These kits include the parts and encoder for field assembly of slim-line, through-shaft encoder designed to slip over the motor's fan end shaft. Blower kit sold separately.

Features:

- Output is 1024 pulses per revolution
- 5 to 28 VDC line driver output. Short-circuit protection is standard. Inputs are over voltage and reverse voltage protected. Electrical noise immunity exceeds international standards. Encoders are isolated from shaft currents using hard anodized sleeves and non metallic anti-rotation hardware. Designed for long-life in industrial environments using an all-metal, shock resistant code disk. The encoder is protected by the motor's fan cover after mounting. Using a blower fan kit is suggested for proper motor cooling.
- Short circuit protection
- Isolated from shaft currents
- Shock resistant code disks
- Use with blower kits to protect and cool motors

For use with rolled steel, TEFC motors only

NEMA Frame	Catalog Number	List Price
56-145T	175960.00	1186
182-4T	175897.00	1718
213-5T	175898.00	1718

Specifications are subject to change without notice

For use with 150, G150 & 170 series
cast iron TEFC motors only

NEMA Frame	Catalog Number	List Price
182-4T	175684.00	1471
213-5T	175685.00	1471
254-6T	175686.00	2375
284-6T	175687.00	2375
320T	175641.00	2422
360T	175642.00	2422
400T	175643.00	2422
440T (2 pole)	175644.00	2422
440T (4/6 pole)	175645.00	2422

Specifications are subject to change without notice

For use with LEESON Speedmaster® 2000:1, 810000 series inverter duty motors only

Encoder Description	Enclosure	Frame	Brand / Mod	PPR	Catalog Number	List Price
Modular Mount, 5-15 VDC, with EPIC connector	TENV	143-256T	Northstar SL56	1024	E175927.00	3316
Shaft Mount, 5-26 VDC, with 10 pin connector	TENV	143-256T	Dynapar HS35	1024	E175928.00	2130
Shaft Mount, 5-26 VDC, with 10 pin connector	TENV	143-256T	BEI HS35	1024	E175929.00	2130
Shaft Mount, 5-26 VDC, with 10 pin connector	TENV	143-256T	Dynapar HS35	2048	E175930.00	2130
Shaft Mount, 5-26 VDC, with 10 pin connector	TENV	143-256T	BEI HS35	2048	E175931.00	2130
Modular Mount, 5-15 VDC (Encoder Conduit Box Required)	TEBC	284-449T	Northstar SL56	1024	E175921.00	3316
Shaft Mount, 5-26 VDC (Encoder Conduit Box Required)	TEBC	284-449T	Dynapar HS35	1024	E175922.00	2130
Shaft Mount, 5-26 VDC (Encoder Conduit Box Required)	TEBC	284-449T	BEI HS35	1024	E175923.00	2130
Shaft Mount, 5-26 VDC (Encoder Conduit Box Required)	TEBC	284-449T	Dynapar HS35	2048	E175924.00	2130
Shaft Mount, 5-26 VDC (Encoder Conduit Box Required)	TEBC	284-449T	BEI HS35	2048	E175925.00	2130
Conduit Box Required for all TEBC Units	—	—	—	—	ECB175926.00	237

Specifications are subject to change without notice



Accessories / Kits

Terminal Block Kits



Terminal block kits for 150 and 170 Series NEMA Frame Cast Iron motors. Can also be used for replacement on 193 Series Cast Iron and 192 Series aluminum IEC metric motors.

NEMA Frame	IEC Frame	Catalog Number	List Price	App. Wgt. (lbs.)
—	63-90L	175881.00#	18	1
180/210T	100/112/132	175668.60	38	2
250/280T	160/180	175667.60	42	3
320/360T	200/225	175666.60	64	4
400/440T	250/280	175665.60	99	5

Replacement terminal board for Aluminum frame IEC motors.

Specifications are subject to change without notice

Accessories / Kits

Die Cast Aluminum Conduit Box Conversion Kit LEESON Motors Only



56/140-frame kit (pictured) includes die cast aluminum conduit box, cover, gaskets, grounding screw, mounting hardware and adapter plate for mounting box on existing holes in motor. 180 and 210-frame kits include all parts required to replace the conduit box including the die cast conduit box, plug, cover, gaskets and mounting hardware. No adapter plate is required because these kits mount on existing holes. All conduit boxes have 1/2-NPT tapped lead exit holes on two adjacent sides with one hole plugged. Note: the kit will not work with larger HP single-phase 210-frame motors.

NEMA Frame	Catalog Number	List Price	App. Wgt. (lbs.)
56-140T	175892.00	79	2
182-4T	175649.00	95	2
213-5T	175847.00	115	11

Specifications are subject to change without notice

Explosion - Proof Conduit Box



UL and CSA listed for Class I, Group C & D, and Class II, Groups E, F & G locations. Has grounding screw and all hardware provided. Mounts to motor by 3/4"-14NPT opening at rear of box. For NEMA 56 & 143-5T frame motors only. Box number 175755.00 has a 1" NPT thread.

Catalog Number	List Price	App. Wgt. (lbs.)
175026.00	107	2
175755.00 (1)	107	2

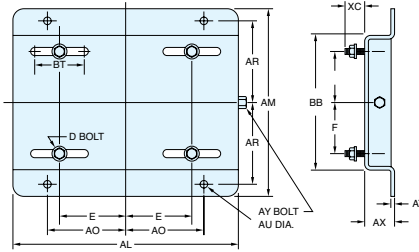
(1) For motors having a letter P after the date code.

Specifications are subject to change without notice

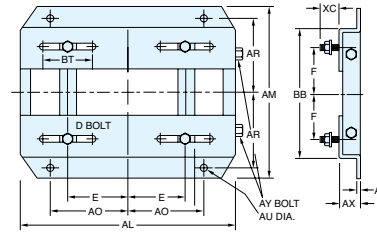
Adjustable Motor Bases - NEMA 48-447T Frames

Heavy gauge steel mounting bases simplify the installation of motors and make the tensioning, maintenance and replacement of belts a simple efficient task. Fabricated from sheet or steel plate, then primed and finished in a gray rust and corrosion resistant oven-baked finish. Gussets and reinforcing channels on larger units and continuous seam welding on all units give these bases

strength and durability for a long life. A single (215T frame and smaller) or double (NEMA 254T frame and larger) zinc plated adjusting screw is provided. Motor mounting bolts are included. Adjustable motor bases are designed to mount to your existing motor's base.



NEMA 48 thru 215T



NEMA 254T thru 447T

Frame	List Price	Catalog Number	AL	AM	AX	BB	E	F	AO	AR	AU**	BT	AT	XC	D* Bolt	AY Bolt	App. Wgt. (lbs.)
48	81	175032.00	10	6 1/4	1 1/8	4 1/4	2 1/8	1 3/8	3 1/2	2 3/4	3/8	3.00	0.08	7/8	5/16 x 1	3/8 x 4	2
56	81	175033.00	10 5/8	6 1/2	1 1/8	4 1/2	2 7/16	1 1/2	3 1/16	2 7/8	3/8	3.00	0.08	7/8	5/16 x 1	3/8 x 4	3
143T	96	175034.00	10 1/2	7 1/2	1 1/8	5 1/2	2 3/4	2	3 3/4	3 3/8	3/8	3.00	0.12	1 1/16	5/16 x 1	3/8 x 4	5
145T	96	175035.00	10 1/2	8 1/2	1 1/8	6 1/2	2 3/4	2 1/2	3 3/4	3 7/8	3/8	3.00	0.12	1 3/16	5/16 x 1	3/8 x 4	6
182T	125	175036.00	12 3/4	9 1/2	1 1/2	6 1/2	3 3/4	2 1/4	4 1/2	4 1/4	1/2	3.00	0.13	1 1/2	3/8 x 1 1/4	1/2 x 5	9
184T	125	175037.00	12 3/4	10 1/2	1 1/2	7 1/2	3 3/4	2 3/4	4 1/2	4 3/4	1/2	3.00	0.13	1 1/2	3/8 x 1 1/4	1/2 x 5	9
213T	154	175038.00	15	11	1 3/4	7 1/2	4 1/4	2 3/4	5 1/4	4 3/4	1/2	3 1/2	0.16	1 1/2	3/8 x 1 1/4	1/2 x 5	13
215T	154	175039.00	15	12 1/2	1 3/4	9	4 1/4	3 1/2	5 1/4	5 1/2	1/2	3 1/2	0.16	1 1/2	3/8 x 1 1/4	1/2 x 5	15
254T	235	175040.00	17 3/4	15 1/8	2	10 3/4	5	4 1/8	6 1/4	6 3/8	5/8	4.00	3/16	1 7/16	1/2 x 1 1/4	5/8 x 6	17
256T	235	175041.00	17 3/4	16 3/8	2	12 1/2	5	5	6 1/4	7 1/2	5/8	4.00	3/16	1 7/16	1/2 x 1 1/4	5/8 x 6	18
284T	255	175042.00	19 3/4	16 3/8	2	12 1/2	5 1/2	4 3/4	7	7 1/2	5/8	4 1/2	3/16	1 11/16	1/2 x 2	5/8 x 6	21
286T	255	175043.00	19 3/4	18 3/8	2	14	5 1/2	5 1/2	7	8 1/4	5/8	4 1/2	3/16	1 11/16	1/2 x 2	5/8 x 6	22
324T	337	175044.00	22 3/4	19 1/4	2 1/2	14	6 1/4	5 1/4	8	8 1/2	3/4	5 1/4	3/16	2 1/16	5/8 x 2 1/2	3/4 x 9	31
326T	337	175045.00	22 3/4	20 3/4	2 1/2	15 1/2	6 1/4	6	8	9 1/4	3/4	5 1/4	3/16	2 1/16	5/8 x 2 1/2	3/4 x 9	32
364T	444	175046.00	25 1/2	20 1/2	2 1/2	15 1/2	7	5 3/8	9	9 3/8	3/4	6.00	1/4	2 1/16	5/8 x 2 1/2	3/4 x 9	44
365T	444	175047.00	25 1/2	21 1/2	2 1/2	16 1/2	7	6 1/8	9	9 3/8	3/4	6.00	1/4	2 1/16	5/8 x 2 1/2	3/4 x 9	45
404T	798	175048.00	28 3/4	22 3/8	3	16 1/2	8	6 1/8	10	9 7/8	7/8	7.00	1/4	2 1/2	3/4 x 3	3/4 x 11	60
405T	798	175049.00	28 3/4	23 3/8	3	18	8	6 1/8	10	10 3/8	7/8	7.00	1/4	2 1/2	3/4 x 3	3/4 x 11	61
444T	988	175088.00	31 1/4	24 3/8	3	19 1/4	9	7 1/4	11	11.0	7/8	7 1/2	1/4	2 1/2	3/4 x 3	3/4 x 11	68
445T	988	175089.00	31 1/4	26 3/8	3	21 1/4	9	8 1/4	11	12.0	7/8	7 1/2	1/4	2 1/2	3/4 x 3	3/4 x 11	73
447T	1090	175090.00	31 1/4	30 1/8	3	24 3/4	9	10	11	13 3/4	7/8	7 1/2	5/16	3	3/4 x 3 1/2	3/4 x 11	92
449T	1090	175302.00	31 1/4	35 3/8	3	29 3/4	9	12 1/2	11	16 1/4	7/8	7 1/2	5/16	3	3/4 x 3 1/2	3/4 x 11	95

* Motor mounting bolt diameter and length, four supplied with each base.

** Base mounting bolts, four required—not supplied with base.

Specifications are subject to change without notice

NOTE: These bases are not suitable for vertical mounting. All dimensions in inches.

Transition Bases

Transition bases compensate for the difference in mounting dimensions and shaft height of a rigid base NEMA T frame to the next higher NEMA U frame. This makes it possible, for example, to replace a 10 HP NEMA 254U frame motor with a 10 HP NEMA 215T frame motor without modifying the basic installation. Made of the same high-quality materials and construction as the

adjustable motor bases above. They are for horizontal mountings, shimming may be needed for direct coupled loads. Thread size listed is for mounting transition base to the "T" frame motor. Dimensions listed are for one piece—two are supplied, one for each side of the motor's foot.

Converts T Frame	To U Frame	Catalog Number	List Price	App. Wgt. (lbs.)	Height (Inches)	Width (Inches)	Length (Inches)	Thread
143T/145T	182/184	175091.00	82	2	1	2 1/4	7 1/2	5/16-18
182T/184T	213/215	175092.00	119	3	3/4	1 3/4	9 1/2	3/8-16
213T/215T	254U/256U	175093.00	140	5	1	2 7/16	12 3/4	3/8-16
254T/256T	284U/286U	175094.00	197	8	3/4	2 3/4	14 1/4	1/2-13
284T/286T	324U/326U	175095.00	262	10	1	3 1/4	15 3/4	1/2-13
324T/326T	364U/365U	175097.00	332	13	1	3 1/16	16 1/2	5/8-11
364T/365T	404U/405U	175098.00	444	22	1	4 1/4	18 5/8	5/8-11
404T/405T	444U/445U	175127.00	568	24	1	4 1/4	21 5/8	3/4-10

Specifications are subject to change without notice



IEC Motors

DC Motors

Geomotors

AC / DC Controls

Accessories / Kits

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CE Field Conversion Kits

Lincoln Motors Only

Three Phase Motors Only

Model Numbers Beginning With:	Model Efficiency Code(s)	Frame Size	Catalog Number	List Price	App. Wgt. (lbs.)	♥ Notes
SD & SSD	P, B	143T-184T	LM22093	203	2	
		213T-215T	LM22188	203	2	
		254T-256T	LM25632	203	2	
		284T-326T	LM12429	223	2	2
		364T-365T	LM12430	672	2	1
		404T-405T	LM12454	1085	35	1
		444T-445T	LM12463	1403	40	1
		447T-449T	LM12479	1403	40	1
AF & SF (also includes AB, AN & SB)	S, H	143T-145T	LM08476	203	2	
		182T-184T	LM08478	203	2	
		213T-215T	LM08582	293	2	
		254T-256T	LM08664	293	5	
		284T-286T	LM08665	293	2	9
		324T-326T	LM08709	293	2	3
		364T-365T	LM08720	334	2	3
		404T-405T	LM08738	334	2	3
AF, AAF & SSF	S,P,B	444T-445T	LM08827	1006	40	1, 3
		143T-145T	LM18872	159	2	
AF & SF	P, B	182T-184T	LM18873	203	2	
		213T-215T	LM18874	203	1	
		254T-256T	LM18875	203	2	
		284T-286T	LM18876	293	1	
		324T-326T	LM18866	293	3	
		364T-365T	LM18868	738	35	1
		404T-405T	LM18869	334	3	
		444T-445T	LM18870	445	4	
CS, CCF & CCS (excludes those motors with NN in NOTES column)	P, B	447T-449T	LM18871	1213	40	1
		143T-184T	LM18864	203	2	
		213T-256T	LM18865	203	2	
		284T-326T	LM18866	293	3	
		364T-405T	LM18867	334	3	
		444T-445T	LM18870	445	4	
		447T-449T	LM18871	1213	40	1, 2
MD & SE	S	284T-286T	LM12429	223	2	
		324T-365T	LM16572	286	2	
		404T-405T	LM16574	834	40	1
		404T-405T	LM12454	1085	35	1
		444T-445T	LM16577	1175	40	1

Specifications are subject to change without notice

Notes: P=EPAAct, B=Preimum, S=Standard Eff., G=U-Frame Standard

1. Kit includes larger than standard terminal box.

2. Terminal box is heavy gauge steel CS models normally have cast iron box

3. Blower motor on TEBC CTAC models, 284T frames and larger, is not CE compliant

* Multiguard mtrs

Usable on 380 to 575V (for others, contact Lincoln). Price includes terminal strip suitable for six connections and grounding lug. Contact Customer Service regarding nameplate with CE Mark.

Copies of Lincoln's Declaration of Conformity for the Low Voltage Declaration of Conformity for the Low Voltage Directive and Manufacturer's Declaration for the Machinery Directive are available on request



For use with Lincoln rolled steel and cast iron frame US built motors

For use with LEESON Inverter Duty, 800000 Series cast iron motors

For Use with LEESON IEEE-841 duty motors. Note - will not meet DIV 2 certification with SGRs

Shaft grounding is recommended (NEMA MG1 31.4.4.3) as an effective means of bearing protection for motors operated from inverter power. One grounding device is adequate to bleed down inverter-sourced shaft voltages, thereby protecting both bearings for motors as large as 6085 frame. Kits includes grounding ring, mounting hardware and instructions. Shaft ground rings fit these NEMA shaft extension frames listed below, they are designed to mount on the shaft end.

Note: Cannot Be Used On Explosion Proof Motors

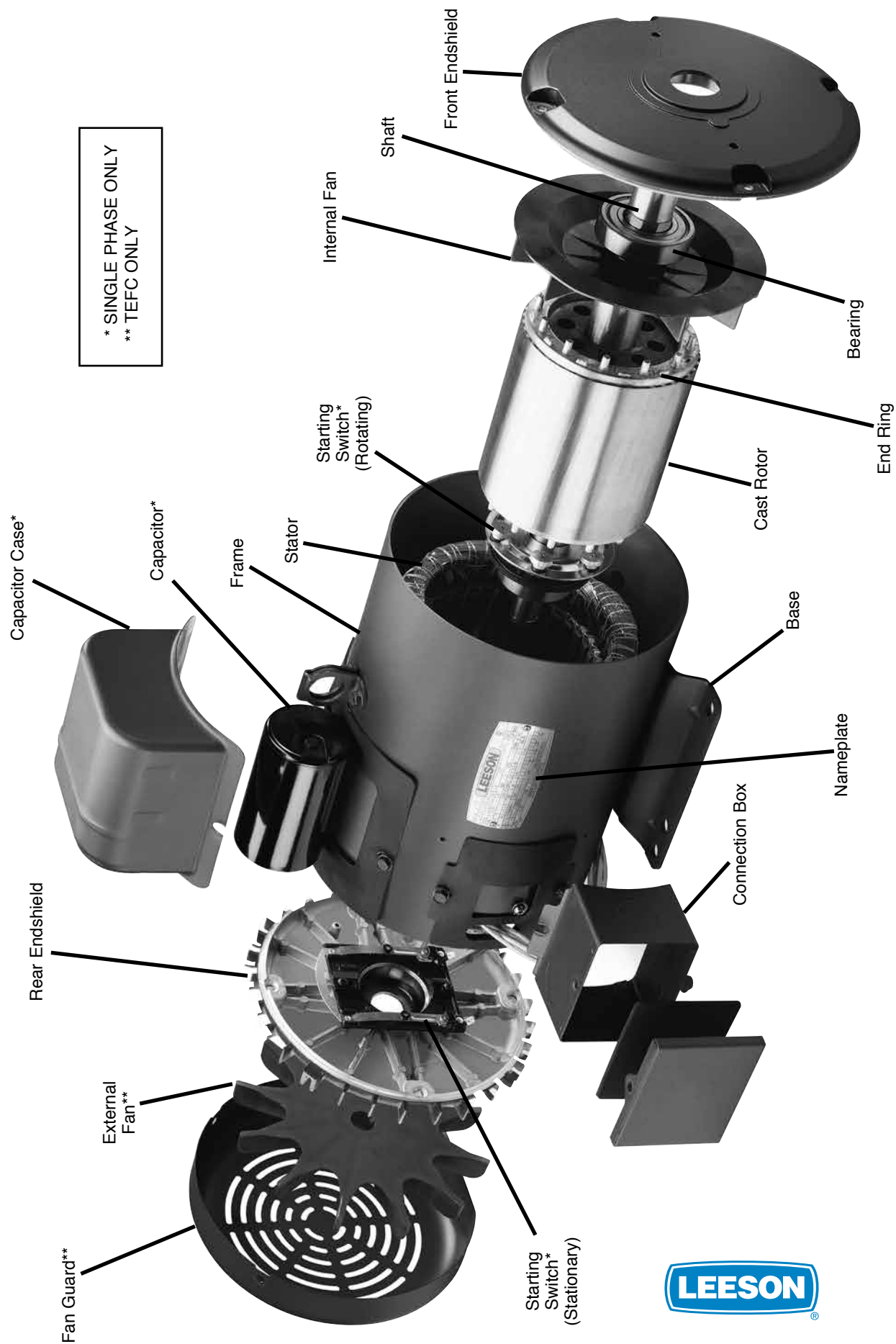
Shaft Grounding Ring (SGR)

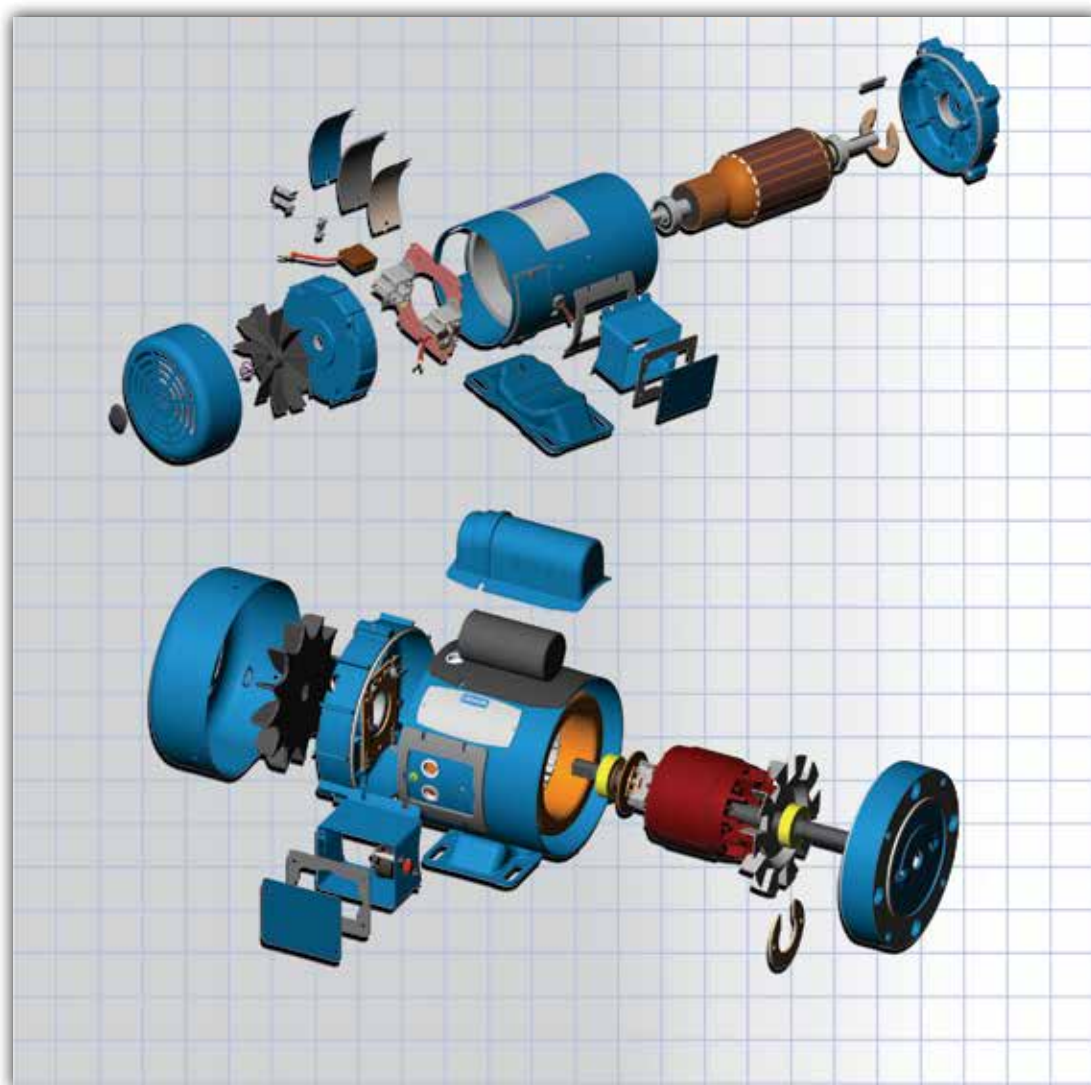
NEMA Frame	Catalog Number	Stock	List Price
48	LM32396	✓	179
56	LM32397	✓	179
143-145T	LM32398	✓	179
182-184T	LM32399	✓	209
213-215T	LM32401	✓	238
254-256T	LM32402	✓	298
284-286T	LM32403	✓	533
284-286TS	LM32402	✓	298
324-326T	LM32405	✓	418
324-326TS	LM32403	✓	533
364-365T	LM32407	✓	477
364-365TS	LM32403	✓	533
404-405	LM32409	✓	711
404-405TS	LM32405	✓	418
444-445T	LM32411	✓	1249
444-445TS	LM32407	✓	477
447/449T	LM32411	✓	1249
447/449TS	LM32407	✓	477

Specifications are subject to change without notice



Major Components of an Electric Motor





Contact your local LEESON Sales office for genuine replacement motor parts.

Mod-Squad Stock Motor Modification Program

Your motor, your way...now

The Mod-Squad stands on alert ready to tailor a LEESON or Lincoln stock motor to meet your modified motor needs in a few days or less. From one modified motor up to a few—there is no faster, more versatile source for mechanically or electrically "customerized" motors.

Starting with an off-the-shelf LEESON or Lincoln motor selected from the nearly 6,000 LEESON or Lincoln stock motors, the modifications listed here can be completed in the time frame noted for each item.

Ordering Information

To order please specify the catalog number of the LEESON or Lincoln stock motor to be modified and the Mod-Squad modification catalog number or numbers desired.

An inventory of popular motors is maintained by the Modification Center for fast delivery. However, delivery of the modified motor is governed by availability of the stock motor. If a stock motor is shipped from a District Warehouse to the Modification Center in Indianapolis, IN, the cost of the inbound freight is added to the price of the modified motor and delivery of the modified motor will be extended by the inbound transit time.

Modification list prices are subject to the same discounts as apply to the motor. (Some motors, such as explosion-proof, may not be modified.) Days noted are working days excluding holidays and weekends—larger quantities may require additional leadtime.

MOD-SQUAD Cancellation Policy

Modified motors may not be returned for credit or re-stocking. If a modification order is cancelled before shipment, a cancellation charge of double the modification charge will be invoiced to the customer. Any Mod-Squad order cancelled before modification is completed is subject to cancellation charges of 10% of total charges for that item.

Terms are net 30 days, FOB Indianapolis, IN, with freight prepaid on single shipments of 1,500 pounds or 3,000 dollars or more to the first destination within the continental United States, excluding Alaska.

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Totally Enclosed Air Over Conversion	L22	399
Weatherproofing - Three Phase, Totally Enclosed Motors	L20	398
Larger Size Conduit Box - Lincoln Only	L31	401



L1 Balancing

Two Days*

The LEESON balancing modification has been discontinued due to high costs of re-balancing by an outside firm. Contact your sales office for a quote on special or precision balanced production motors, requiring a minimum order of 10 pieces or contact a LEESON Authorized Service Center for a quote on a Special balance modification.

L2 Bearing Modifications

Two Days

#L2a Changing shielded bearings to sealed bearings on stock motors. 48, 56 and 143T-145T, Agricultural motors as well as all Washguard duty and Wash-Thru motors have sealed bearings as standard. Note: Adding sealed bearings to motors having grease fittings may not make the bearings regreaseable. Grease fittings will be removed and plugged.

NEMA Frame	Catalog Number	List Price
42	L2A42	187
48	L2A48	187
56	L2A56	187
143T-145T	L2A140	192
182T-184T	L2A180	209
213T-215T	L2A210	222
254T-256T	L2A250	390
284T-286T	L2A280	497
324T-326T	L2A320	653
364T-365T	L2A360	1158
404T-405T	L2A400	1199
444T-449T	L2A440	1597

#L2c Change bearing grease on cast iron motors with open-type regreaseable bearings. Endbells and bearings are purged and repacked with low-temperature grease (Beacon #325 or equivalent) with a temperature range of -75°F to +250°F or high-temperature grease (Dow Corning DC44M or equivalent) with a temperature range of -40°F to +400°F. Specify grease to be used. Check with LEESON to verify the motor can operate in the temperature range required! LEESON Only.

NEMA Frame	IEC Frame	Catalog Number	List Price
254T-256T	—	L2C250	358
284T-286T	160	L2C280	400
324T-326T	180	L2C320	559
364T-365T	200	L2C360	598
404T-405T	225	L2C400	957
444T-449T	250	L2C440	1315

#L2b Stock motors with shielded or sealed bearings – replace standard bearings with ones having low-temperature lubricant (Beacon #325 or equivalent), with a temperature range of -75°F to +250°F. Standard lubricant has a temperature range of -20°F to +300°F and is considered a high temp lubricant for these motors. Explosion proof motors can only be rated to a -13°F temperature.

NEMA Frame	Catalog Number	List Price
42	L2B42	187
48	L2B48	187
56	L2B56	187
143T-145T	L2B140	192
182T-184T*	L2B180	209
213T-215T*	L2B210	222

*Rolled steel, cast iron or aluminum motors

#L2d Install insulated bearings to protect inverter-driven motors from inverter-sourced shaft voltages. May not be installed on Division 1 or Division 2 hazardous locations. Contact factory for lead time on installing insulated bearings.

NEMA Frame	Catalog Number	List Price
143T-145T	L2D140	463
182T-184T	L2D180	555
213T-215T	L2D215	1632
254T-256T	L2D250	1737
284T-286T	L2D280	1737
324T-326T	L2D320	1887
364T-365T	L2D360	1929
404T-405T	L2D400	1951
444T-449T	L2D440	2163

Mods / Factory Options

L3 Brakemotor Modifications - LEESON Branded Motors Only

"Motors and BrakeKits sold separately"

Three Days

#L3a Convert brakemotors (TENV only) with standard enclosure brakes to weatherproof brakes by changing the disc brake. Weatherproof brakes have additional sealing and protection. Price includes cost of weatherproof brake.

#L3b Change the standard brake to one with a different torque rating. Specify torque rating. Standard enclosure brakes only—not weatherproof. Some torque limitations apply, specify torque rating. Catalog Number L3B. List price - \$160

#L3c Change Brake Coil Voltage. Change from standard coil voltage to 115 volts (for Stearns brand brakes only). Catalog Number L3C. List Price \$160

#L3d Install a LEESON BrakeKit. See page 272 for BrakeKits available and motors that can be converted. Specify the catalog number of both the stock motor and the BrakeKit. List Price \$326

#L3e Remove brake from stock brakemotor for customers supplying their own brake. Specify Catalog Number L3E. List Price \$326

#L3f Assemble double C-face coupler brake on C-face motor. MOD charge is for assembly only. Brake and motor are purchased separately. Specify the catalog number of the stock motor and coupler brake.

Catalog Number L3F56140 - 56C, 143TC, or 145TC motors. List Price \$326

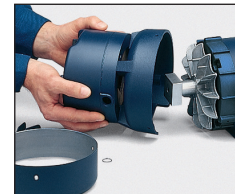
Catalog Number L3F180210 - 182TC, 184TC, 213TC, or 215TC motors. List Price \$480

#L3g Change Brake Coil Voltage. Change from standard coil voltage to 200 volts (for Stearns brand brakes only).

Catalog Number L3G1.5-3 - 1.5 & 3 lb-ft brakes. List Price \$387

Catalog Number L3G6-10 - 6 & 10 lb-ft brakes. List Price \$387

Catalog Number	List Price
L3A3	818
L3A6	818
L3A10	834
L3A15	860
L3A25	946



BrakeKit Installation

L5 Cords, Plugs and Grounding Provisions

Three Days

#L5a For single phase motors, install grounded line cord of type S.O., three-conductor oil resistant cord, connected in the conduit box or terminal panel, with strain relief. No plug. **Specify cord length, voltage and shaft rotation (clockwise or counterclockwise) viewed from the drive shaft end of the motor.**

Wire Gauge	Max Amp Rating Single Phase	Catalog Number 6 ft. or Less	List Price 6 ft. or Less	Catalog Number Each Add'l. Foot	List Price Each Add'l Foot to 10 ft. Max.
16	13	L5A16	160	L5A16ADD	3
14	18	L5A14	168	L5A14ADD	3
12	25	L5A12	176	L5A12ADD	4

#L5b Install 6-foot grounded type S.O. cord with plug, 115VAC single phase only. **Specify cord length, shaft rotation (clockwise or counterclockwise) viewed from the drive shaft end of the motor.**

HP	Catalog Number 6 ft. or Less	List Price 6 ft. or Less	Catalog Number Each Add'l. Foot	List Price Each Add'l Foot to 10 ft. Max.
1 and smaller	L5B	155	L5BADD	3

#L5c Add an additional grounding screw to the endbell of drip-proof or totally enclosed non-ventilated NEMA 48 or 56 frame motors. Meets UL 1081 swimming pool motor grounding provisions (includes slinger). Catalog Number L5C. List Price \$136



Grounded Cord w/Plug

L6 Switches – Power or Electronic Starting

Three Days

- #L6a On-off switch for 2 HP and smaller single phase motors only. Install double-pole, single-throw switch in the conduit box, with switch guard and a 6-foot type S.O. cord with grounded plug, **115 VAC or 230 VAC—please specify. Also specify shaft rotation (clockwise or counterclockwise) viewed from the drive shaft end of the motor.**

Rating	Catalog Number	List Price
16-20A/115V or 230V	L6A	330



On-Off Switch w/Guard

- #L6b Replace mechanical centrifugal switch on single phase motors 2HP and smaller with solid-state, encapsulated, electronic starting switch. Capacitor-start, induction-run motors only. **Subject to engineering approval.** Catalog Number L6B. List Price \$346

L7 Severe Duty - Cast Iron Fan Covers - LEESON Branded Motors Only

Three Days

- #L7a Remove steel fan guard and install a cast iron fan guard on LEESON 150, G150 and 170 series NEMA and 193 series IEC TEFC cast iron motors to meet severe duty, mill and chemical duty specifications. Note: These motors have cast iron endbells, frame, and conduit box as standard. **Lincoln Motors has a line of Severe Duty motors that include a cast iron fan guard.** See page 91.

NEMA Frame	IEC Frame	Catalog Number	List Price
182T-184T	—	L7A180	347
213T-215T	—	L7A210	389
254T-256T	—	L7A250	476
284T-286T	160	L7A280	742
324T-326T	180	L7A320	769
364T-365T	200	L7A360	1084
404T-405T	225	L7A400	1174
444T-445T	250	L7A445	1182
447T-449T	280	L7A449	1205



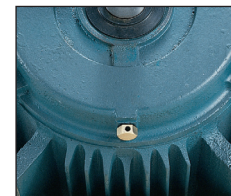
Cast Iron Fan Cover

L8 Condensate Drains - Totally Enclosed Motors

Two Days

- #L8a 215T and smaller steel frame motors. Drill one or two condensation drain holes on the periphery or in the face of each endbell of steel frame 215T frame and smaller totally enclosed motors. **Specify location in both the shaft end and opposite endbell using a drawing or clockface analogy.** When specified, a drain can be added to the face of one endbell for shaft up or down mounting.

NEMA Frame	Catalog Number	List Price
215T and smaller	L8A40210	243
254T-365T	L8A250360	338
404T-449T	L8A400440	405



Condensate Drain

- #L8b 182T and larger cast iron frame motors. Provides an additional one-way, cross-drilled stainless steel condensation drain on the periphery or in the face of each endbell. Provide a drawing or clockface analogy for position in each endbell.

NEMA Frame	Catalog Number	List Price
215T and smaller	L8B40210	243
254T-365T	L8B250360	338
404T-449T	L8B400440	405

Mods / Factory Options

L9 Drip Cover – Open, Drip-Proof Motors

Two Days

#L9a Install a drip cover on steel frame motors. Price includes drip cover. **LEESON Branded Motors Only**

NEMA Frame	Catalog Number	List Price
48-145T	L9A40140	160
182T-184T	L9A180	173
213T-215T	L9A210	192



Drip Cover

#L9b Install a drip cover on cast iron motors. Price includes drip cover. **LEESON Branded Motors Only**

NEMA Frame	Catalog Number	List Price
182T-184T	L9B180	173
213T-215T	L9B210	192
254T-256T	L9B250	230

#L9c Install a drip cover on SPD, SRD and SSD Model Numbers. Not suitable for use on motors having NN in Notes column. **Lincoln Branded Motors Only**

NEMA Frame	Catalog Number	List Price
48-56*	L9C4856	160
56-145T	L9C56145	160
182T-184T	L9C182184	173
213T-215T	L9C213215	192

* Motors having a 2.18 inch bolt circle for the mounting holes

L10 Leads – Reconnect, Remark or Extend

Two Days

#L10a Re-Connect leads in the conduit box to a single voltage and/or for wye or delta connection. Most motors 444T frame and above are single voltage. Specify voltage and connection.

NEMA Frame	Catalog Number	List Price
48-145T	L10A40140	176
182T-184T	L10A180	279
213T-215T	L10A210	371
254T-256T	L10A250	416
284T-286T	L10A280	550
324T-326T	L10A320	621
364T-365T	L10A360	621
404T-405T	L10A400	696
444T-449T	L10A440	776

#L10c Extend leads up to 42 inches longer than standard by splicing. **Specify additional length required.**

NEMA Frame	Catalog Number	List Price
48-145T	L10C40140	176
182T-184T	L10C180	279
213T-215T	L10C210	371
254T-256T	L10C250	416
284T-286T	L10C280	550
324T-326T	L10C320	621
364T-365T	L10C360	621
404T-405T	L10C400	696
444T-449T	L10C440	696

#L10b Remark leads using metal markers. Any size motor. **Specify markings, letters or numbers.** **Specify Catalog Number L10B.** List Price \$187

#L10d Add crimp-type terminal lugs – steel frame motors. Lugs standard on LEESON cast iron motors. **Specify Catalog Number L10D.** List Price \$145

L11 Shaft Seals

Three Days

#L11a Install an oil seal on the shaft end of 215T and smaller steel frame LEESON motors. May be installed on single, three phase or direct current motors, but not explosion-proof motors.

Catalog Number	List Price
L11A	464

L12 Mountings

Two Days

- #L12a** Add a stamped steel rigid base to steel frame motors. For 182-4T frame motors, minimum 8.50" (TEFC, rigid, C face) or 8" (ODP, rigid, C face) frame length is required. **LEESON Branded Motors Only**

NEMA Frame	Catalog Number	List Price
42-48	L12A4248	187
56	L12A56	190
143T-145T	L12A140	190
182T-184T	L12A180	229
213T-215T	L12A210	279

Note: It is not possible to add a base to some three phase motors as the resulting rigid base motor will be subject to EISA mandated efficiency values. Contact the factory.

This Mod. cannot be done on an explosion proof motor for an F2 conduit box location.

- #L12b** Remove stamped steel rigid base from steel frame motors.

NEMA Frame	Catalog Number	List Price
42-56	L12B4256	287
143T-145T	L12B140	287

- #L12c** Install a NEMA C face on steel frame motors 215T and smaller. **Specify if the rigid base is to be removed. If so, add for modification #L12b listed above.** List Price includes C face Kit. **LEESON Branded Motors Only**

NEMA Frame	Catalog Number	List Price
42-56*	L12C4256	242
143T-145T	L12C140	242
182T-184T	L12C180	262
182T-184T**	L12C180U	262
213T-215T	L12C210	324

*Adding a 48 C-Face results in a non-NEMA BA dimension.

** Convert a 182T-184T frame motor to have a C-face dimensions of a 143T-145T or 182U-184U frame motor (AJ = 5 7/8", AK = 4 1/2"). The shaft dimensions and base location will not change.

- #L12d** Install a NEMA C face to 150 or 170 series cast iron motors. **The rigid base cannot be removed from these cast iron frame motors (non-800 Series).** List Price includes C face Kit. **LEESON Branded Motors Only**

NEMA Frame	Catalog Number	List Price
182T-184T	L12D180	435
213T-215T	L12D210	474
254T-256T	L12D250	600
284T-286T	L12D280	725
324T-326T	L12D320	941
364T-365T	L12D360	1022
404T-405T	L12D400	1117
444T-445T	L12D440	1373
447T-449T	L12D4479	1451

- #L12e** Install a NEMA D flange to open or totally enclosed motors of steel frame construction in 182-4T frame and cast iron 150 and 170 series motors in 213T frames through 445T frame. Steel rigid base can be removed from steel frame 182-4T frame motors. **Specify and add for modification L12b.**

Rigid base cannot be removed from cast iron frame motors. List Price includes D Flange.

LEESON Branded Motors Only

NEMA Frame	Catalog Number	List Price
182T-184T	L12E180	435
213T-215T	L12E210	474
254T-256T	L12E250	600
284T-286T	L12E280	725
324T-326T	L12E320	941
364T-365T	L12E360	1022
404T-405T	L12E400	1370
444T-445T	L12E440	1783

- #L12f** Convert standard F1 motors to F2, sidewall or ceiling mounting. Consists of repositioning the endbell vents and condensation drains where applicable and the conduit box lead hole. Note: If brakemotor, brake knob will be located at 6 o'clock. Note: Only the 56/140 frame motors can have the motor bases removed where needed. **LEESON or Lincoln Branded** motors where applicable.

NEMA Frame	Catalog Number	List Price
56-184T	L12F56180	371
213T-215T	L12F210	402
254T-326T	L12F250320	480
364T-449T	L12F360449	621

* Three phase only; single phase motors cannot be converted. Please contact factory for Explosion proof motor approval for this modification. Washdown motors cannot be converted to F2.

- #L12g** Rotate standard conduit box position by 90° increments. **Specify by clock face, i.e. 9 o'clock, 12 o'clock, etc. for position (viewed from shaft end).** Consists of repositioning the endbell vents and condensation drains where applicable and the conduit box lead hole. Note: If brakemotor, brake knob will be rotated 90° from conduit box. **This mod. can no longer be offered on the 180 and 210 frame motors for the bases of these motors can no longer be removed without damaging the motor. List Price includes D Flange.**

NEMA Frame	Catalog Number	List Price
56-145T	L12G56140	371

* Three phase rolled steel only; single phase motors cannot be converted.



L12 Mountings

Two Days

#L12h Install a metric (IEC) B5 flange to 190 series cast aluminum or cast iron AC motors and DC steel frame motors. List Price includes B-5 Kit. **LEESON Branded Motors Only**

IEC Frame	Catalog Number	List Price
63	L12H63	236
71	L12H71	243
71 (DC)	L12HD71	243
80	L12H80	253
80 (DC)	L12HD80	253
90	L12H90	257
90 (DC)	L12HD90	257
100	L12H100	282
112	L12H112	292
100/112 (DC)	L12HD100112	292
132	L12H132	330
160	L12H160	474
180	L12H180	539
200	L12H200	669
225	L12H225	855

#L12i Install C Face kit to an IEEE-841 motor. Modification includes C Face kit and new Inpro shaft seal. Bases cannot be removed from these motors.

NEMA Frame	Catalog Number	List Price
143T-145T	L12I140	306
182T-184T	L12I180	435
213T-215T	L12I210	474
254T-256T	L12I250	600
284T/TS-286T/TS	L12I280	725
324T/TS-326T/TS	L12I320	941
364T-365T	L12I360	1563
404T-405T	L12I400	1603

#L12j Install a metric (IEC) B14 face to 190 series cast aluminum or cast iron AC motors and DC steel frame motors. List Price includes B-14 Kit. **LEESON Branded Motors Only**

IEC Frame	Catalog Number	List Price
63	L12J63	228
71	L12J71	236
71 (DC)	L12JD71	236
80	L12J80	242
80 (DC)	L12JD80	242
90	L12J90	252
90 (DC)	L12JD90	252
100	L12J100	275
112	L12J112	282
100/112 (DC)	L12JD100112	282
132	L12J132	323
160	L12J160	464

#L12k Reposition feet and nameplate (to relocate conduit box) on AC aluminum-frame IEC motors (63 thru 90L frame). **LEESON Branded Motors Only**

IEC Frame	Catalog Number	List Price
63	L12K63	166
71	L12K71	175
80	L12K80	187
90	L12K90	234

#L12l Install C Face. For motors having AF/AAF in the model number. List Price includes C Face Kit. **Lincoln Branded Motors Only**

NEMA Frame	Catalog Number	List Price
182T-184T	L12L182184	262
213T-215T	L12L213215	324
254T-256T	L12L254256	366
284T-286T	L12L284286	411

#L12m Install C Face. For motors having SRF in the model number. List Price includes C Face Kit. **Lincoln Branded Motors Only**

NEMA Frame	Catalog Number	List Price
56 (203 brg)	L12M56203	242
56 (205 brg)	L12M56205	242

#L12n Install C Face. For motors having SSF in the model number. List Price includes C Face Kit. **Lincoln Branded Motors Only**

NEMA Frame	Catalog Number	List Price
143-145T	L12N143145	242
182-184T	L12N182184	262
213-215T	L12N213215	324

#L12o Install C Face. For motors having SF in the model number, having a cast iron endbell. List Price includes C Face Kit. **Lincoln Branded Motors Only**

NEMA Frame	Catalog Number	List Price
324T/TS-326T/TS	L12O324326	941
364T/TS-365T/TS	L12O364365	1022
404T/TS-405T/TS	L12O404405	1117
444T/TS-445T/TS	L12O444445	1373
447T/TS-449T/TS	L12O447449	1451

#L12p Install C Face. For motors having CCN in the model number. List Price includes C Face Kit. **Lincoln Branded Motors Only**

NEMA Frame	Catalog Number	List Price
143-145T	L12P143145	242

#L12q Install C Face. For motors having CCF in the model number. List Price includes C Face Kit. **Lincoln Branded Motors Only**

NEMA Frame	Catalog Number	List Price
143T-145T	L12Q143145	242
182T-184T	L12Q182184	435
213T-215T	L12Q213215	474
254T-256T	L12Q254256	600
284T-286T	L12Q284286	725
342T-326T	L12Q324326	941

#L12r Install C Face. For motors having CCS in the model number. List Price includes C Face Kit. **Lincoln Branded Motors Only**

NEMA Frame	Catalog Number	List Price
143T-145T	L12R143145	242
182T-184T	L12R182184	435
213T-215T	L12R213215	474
254T-256T	L12R254256	600
284T/TS-286T/TS	L12R284286	725
342T/TS-326T/TS	L12R324326	941
364T/TS-365T/TS	L12R364365	1022
404T/TS-405T/TS	L12R404405	1117
444T/TS-445T/TS	L12R444445	1373

L13 Nameplates

Three Days

#L13a Provide an extra motor nameplate-unmounted. (Nameplate only) Add customer part number or change to other voltage or frequency service. **Unmounted nameplates are not available for explosion-proof motors.**
Note: Markings for UL and CSA cannot be included on unmounted nameplates that are shipped loose and not installed on a motor.① Add \$1 (net) for each additional Aluminum or Mylar nameplate.② Add \$2 (net) for each additional stainless steel nameplate.③ Catalog Number L13A. List Price per motor \$134
 60Hz single phase motors cannot be re-rated to 50Hz **Must Provide Date Code Information**

#L13b Replace, existing nameplate on provided motor. Add customer part number or change to other voltage or frequency service and mount to motor.① List Price per motor \$160
Note: Not available for motors that are all stainless steel construction.

#L13c Replace standard aluminum nameplate with stainless steel nameplate. LEESON cast iron, WASHGUARD and severe duty motors have stainless steel nameplates as standard.① Add \$2 (net) for each additional stainless steel nameplate.② List Price per motor \$160
 ① Must specify catalog number and date code of motor's existing nameplate. Nameplates changed to a single voltage connection does not mean motors would be re-connected to this connection unless the L10 Mod is also requested. ② Additional nameplates must be identical.

L14 Paint

Two Days*

#L14a Repaint motor to another LEESON or Lincoln stock paint color. A sample of choices include LEESON blue, white epoxy, farm duty red, light gray epoxy, black, or black epoxy. Powder coat paint is not available as a modification. For Lincoln motors, your choices include: Lincoln gray, severe duty blue, black or gloss white. Not available on Lincoln Wash-thru motors. **Specify color.**

*Note: Epoxy paint requires extra curing time. Please allow one additional day.

	Frame	Catalog Number	List Price
NEMA	42-215T	L14A40210	160
NEMA	254T-365T	L14A250360	323
NEMA	404T-449T	L14A400440	517
IEC	63-90	L14A6390	160
IEC	100-225	L14A100225	324

L15 Rodent Screens - LEESON Branded Motors Only

Two Days

#L15a Add rodent screens to open drip-proof motors, cast iron and steel frame, 326T and smaller.

NEMA Frame	Catalog Number	List Price
182T-S213T	L15A40210	254
254T-286T	L15A250280	580
324T-326T	L15A320	778

L16 Space Heaters, Anti-Condensation

Five Days

#L16a Add anti-condensation space heaters to totally enclosed or open motors. Standard space heater voltage is 115 VAC. **Heaters for 230 or 460 VAC are available. Specify circuit voltage.** May be installed in single, three phase or direct current motors. Explosion proof motors are not included. Washdown duty motors are **not** included.

NEMA Frame	Catalog Number	List Price
145T and smaller	L16A40140	353
182T-215T	L16A180210	446
254T-365T	L16A250360	666
404T-449T	L16A400440	874

Mods / Factory Options

L17 Lint-Proof Textile Service Motors - LEESON Branded Motors Only

Two Days

- #L17a Convert a standard totally enclosed-fan cooled motor to textile service by modifying the fan cover to reduce "snagging" of lint and reduction in cooling air for the motor. Price includes kit cost.

NEMA Frame	Catalog Number	List Price
56-145T	L17A40140	323
182T-184T	L17A180	422



Lint-Proof Kit

L18 Motor Protection

Two Days

- #L18a Thermostats on the winding. Install one or more thermostats in the windings of NEMA frame AC motors on the brush plate of DC motors or on the inside of frame on Sub-FHP DC motors. These are pilot or signal devices only, to be used in series with a motor controller or starter to remove power from the motor. Red color leads are brought into the conduit box.

Specify normally open or closed contacts. Normally closed thermostats connected in series. **Thermostats cannot be installed in explosion-proof motors.**

- #L18b For a motor equipped with a thermal overload, exchange a manual or automatic reset thermal overload to the opposite style. Delivery is dependent upon availability of the thermal overload. **LEESON Branded Motors Only**

Not for Explosion Proof motors

Note: Automatic thermal overloads return power to the motor automatically after cooling-off. Automatic thermal overloads should not be used in installations where a sudden restart could cause injury.

NEMA Frame	Catalog Number	List Price
48-56	L18B4056	254
143T-145T	L18B140	259
182T-184T	L18B180	296
213T-215T	L18B210	415

- #L18c Thermistors on the winding. As standard, three (3) thermistors are furnished, one per phase. As the critical temperature of the motor's winding is reached, the resistance of the thermistor changes radically, causing operation of a control relay. Not available on washdown duty motors, explosion proof motors or medium voltage motors.

Type	NEMA Frame	Catalog Number	No. of Devices	List Price
Three Phase	42-215T	L18CT40210	3	258
Three Phase	254T-365T	L18CT250360	3	650
Three Phase	404T-449T	L18CT400440	3	805

Note: Thermostat and Thermistor Descriptions:

Thermostats are made of two or three different metal strips that each expand at different rates when heated. They are sandwiched together to make a laminated strip, with a set of electrical contacts at one end securely mounted to a platform. When the strip is heated it warps and the contacts open as a threshold temperature is exceeded. Thermostats are reliable, noise immune and easily configured into control schemes. Typically, inverter-duty motors have thermostats as standard equipment.

Thermistors are conductive ceramic materials, whose resistance remains relatively constant over a broad temperature range, then changes abruptly at a design threshold point, creating essentially a solid-state thermal switch. Attached control modules register this abrupt resistance change and produce an amplified output signal, usually a contact closure or fault trip annunciation. Thermistors are more accurate and faster responding than thermostats.

L19 Fungus Proofing and Tropicalization

Two Days

- #L19a Special treatment of the motors windings and mechanical parts to resist tropical environments. Not available on brakemotors, washguard duty motors and explosion proof motors.

** AC or DC Motors

NEMA Frame	Catalog Number	List Price
42-215T**	L19A40210	267
254T-365T	L19A250360	388
404T-449T	L19A400440	619

L20 Weatherproofing – Three Phase, Totally Enclosed Motors*

Five Days

- #L20a Treatment of mechanical and electrical components of LEESON steel frame totally enclosed motors to resist weather in application outside or in high-moisture conditions. NOTE: LEESON 150 and 170 series cast iron motors are weatherproofed as standard. LEESON WASHGUARD motors are also well-suited for outside and high-moisture applications. Not available on brakemotors or explosion proof motors. ** AC or DC Motors

NEMA Frame	Catalog Number	List Price
42-215T**	L20A40210	261

* For single phase weatherproofed motors, see Washguard motors on pages 141 and 171.

L21 Marine Service (IEEE 45) Motors – Three Phase, Totally Enclosed - LEESON Branded Motors Only

Five Days

#L21a In order for a motor to be approved for the L21 MOD, the motor must meet:

- IP 54 minimum protection
- Motor frame, conduit box and endbells must be cast iron construction - cast iron fan cover must be added
- Motor's temperature rise must meet 70 degrees C or less and must be rated at 1.15 or higher Service Factor (S.F.)

Contact your local sales office for more information

NEMA Frame	Catalog Number	List Price
143-215T	L21A40210	267
254T-365T	L21A250360	449
404T-405T	L21A400	666
444T-449T	L21A440	842

L22 Shaft Modifications

Five Days

#L22a Drill and tap one hole in either end of motors shaft or mill a flat on the drive end shaft extension. **Provide details of hole, thread size or flat with the order.** List price is per modification. For example, a motor modified by adding a tapped hole and flat would be priced by adding the list price twice.
3 inches maximum depth hole. Does not include keyway modification.

NEMA Frame	Catalog Number	List Price
42-145T	L22A40140	241
182T-184T	L22A180	254
213T-215T	L22A210	397
250T-280T	L22A250280	444

#L22b TEFC to air-over service. Convert a motor from totally enclosed, fan cooled construction to totally enclosed, air-over service by removing fan cover and fan and cutting off the fan end shaft. The modified motor must be mounted in the air stream of the driven fan for cooling purposes.

NEMA Frame	Catalog Number	List Price
42-145T	L22B40140	241
182T-184T	L22B180	254
213T-215T	L22B210	353

L23 Tachometer Mounting Provisions – DC Motors - LEESON Branded Motors Only

Five Days

#L23a Add a tachometer mounting kit to NEMA frame size Direct Current motors. See page 295 for availability of tachometer mounting kits. Does not include tachometer.

NEMA Frame	Catalog Number	List Price
S56	L23AS56	464
SS56	L23ASS56	576
56/145T	L23A56140	597



Tach Kit Adaptor

L24 CE Marking*

Five Days

#L24 Modify provided motor to comply with the nameplate designation, lead markings and connection diagrams required by the IEC34 motor specification. Modification includes a nameplate with the CE logo or a separate CE decal and a CE Declaration of Conformity document. Not available on DC motors below 75 V.D.C. **LEESON Branded Motors Only**

Catalog Number	List Price
L24	223



#L24b CE Marking Kit - Includes new nameplate only with data in IEC34 format, lead markers for IEC lead designations, a connection diagram, and a CE Declaration of Conformity document. The nameplate will have the CE logo, or a CE decal will be provided. **LEESON Branded Motors Only**
UL will not be stamped on nameplate - Must provide motors date code.

Catalog Number	List Price
L24B	134

* Explosion proof motors cannot be built or modified to meet CE.

Mods / Factory Options

L25 Micro Series Inverter - Remote Keypad Option - LEESON Branded Motors Only

Two Days

#L25 A remote keypad for Micro Series inverters is available only as a factory installed option. The keypad is mounted in a gasketed steel faceplate that must be mounted in an enclosure for protection. An inverter modified for remote operation can only be operated from the remote keypad. Price includes remote keypad, faceplate, cable and factory modification charges. Not available on Washguard Duty Inverters. See page 373 for Remote Keypad kits for the Sub-Micro Series Inverters.



Description	Catalog Number	List Price
Keypad with 2.5 foot cable	L25A25	542
Keypad with 5 foot cable	L25A50	592
Keypad with 10 foot cable	L25A100	692

L27 Terminal Blocks – NEMA Motors - LEESON Branded Motors Only

Five Days

#L27a Add a terminal block in the conduit box of rolled steel motor from 56 to 215T-frame. Install ring terminals on the motor leads.

- Conduit box on 56-frame motors will be changed to a longer version to accommodate the terminal board
- Use with single-phase or three-phase motors with no protector
- Specify connection voltage and direction of rotation for single-phase
- Not intended for 56, 143T & 145T-frame TENV or ODP motors that have a built-in conduit box. Contact LEESON for the suitability of adding a terminal board to one of these motors
- Cannot be added to WASHGUARD Duty motors

NEMA Frame	Catalog Number	List Price
56/143T/145T	L27A56140	261
182T/184T/S213T	L27A180	292
213T-215T	L27A210	321

#L27b Install a terminal block kit in the conduit box of a cast iron NEMA frame motor. Price includes kit. (IEC motors have a terminal block installed as standard.)

NEMA Frame	Catalog Number	List Price
180/210T	L27B180210	321
250/280T	L27B250280	380
320/360T	L27B320360	435
400/440T	L27B400440	572

L28 Dynamic Braking Board – Micro Series Drives - LEESON Branded Motors Only

Two Days

#L28 Install Dynamic Braking board in Micro Series drive. Note: Does not include Dynamic Braking resistor, which is ordered as a separate line item. See Micro Series accessory section of catalog for resistor selection. See page 372 for Dynamic Brake kits for the Sub-Micro Series inverters.

HP Rating	Voltage	Catalog Number	List Price
1/2 - 3HP	All	L28A174184	1047
5HP	200-230V	L28A174185	1097
5HP	460-480V	L28A174185	1097
5HP	550-575V	L28A174184	1047
7 1/2HP	200-230V	L28A174192	1031
7 1/2HP	460-480V	L28A174193	1031
7 1/2HP	550-575V	L28A174193	1031
10-60HP	All	L28A174192	1031

L29 Encoder Kits – WATTSAYER® & SPEEDMASTER® Motors

Two Days

#L29a Assemble a stock Encoder Kit on a WATTSAYER® motor. Price is for assembly only. Motor and kit are purchased separately. **Specify motor and kit numbers.** **Note:** The assembly of an encoder kit on a WATTSAYER® motor requires the removal of the external fan. The use of a Blower Fan Kit is strongly encouraged for proper cooling!

NEMA Frame	Catalog Number	List Price
56-215T	L29A56215	280
254T-324T	L29A250320	453
360T-405T	L29A360400	511

#L29b Assemble a stock Encoder Kit on a SPEEDMASTER® motor. Includes assembly of conduit box kit ECB175926 on 215T-449T frame motors. Price is for assembly only. Motor and kits are purchased separately. **Specify motor and kit numbers.** LEESON Only

NEMA Frame	Catalog Number	List Price
143T-215T	L29B140210	199
254T-365T	L29B250360	422
404T-449T	L29B400440	646

#L29c Available on Inverter Duty CTAC Motors that have Model Number ending with Q10. Price is for assembly only. Encoder kit, Mounting kit and Motor sold separately. Lincoln Only

NEMA Frame	Catalog Number	List Price
56-215T	L29C56210	199
254T-365T	L29C250360	422
404T-445T	L29C400440	646

L30 Blower Fan Kits – WATTSAYER® Motors

Two Days

#L30b Install a blower fan kit on a WATTSAYER® motor. Price is for assembly only. Motor and kit are purchased separately. **Specify motor and kit numbers.** LEESON Only

NEMA Frame	Catalog Number	List Price
56-215T	L30B56210	199
254T-326T	L30B250320	344
360T-440T	L30B360440	508

L31 Conduit Box Kits – Larger Size - Lincoln Branded Motors Only

#L31a Install larger size conduit box. AF, MD, SD and SF Model Numbers, S and H Efficiency Codes

NEMA Frame	Catalog Number	List Price
213T-215T	L31A213215	171
254T-256T	L31A254256	192
284T-286T	L31A284286	207
324T-326T	L31A324326	236
364T-365T	L31A364365	276
404T-405T	L31A404405	360

#L31b Install larger size conduit box. AF, AAF, CF, CS, CP, SD and SF Model Numbers, P and B Efficiency Codes

NEMA Frame	Catalog Number	List Price
143T-184T	L31B143184	157
213T-215T	L31B213215	171
254T-256T	L31B254256	192
284T-286T	L31B284286	207
324T-326T	L31B324326	236
364T-365T	L31B364365	276
404T-405T	L31B404405	360
444T-445T	L31B444449	519

Factory Options

CUSTOMIZED AND MODIFIED PRODUCTS

CUSTOM MOTORS, GEARBOXES & GEARMOTORS

LEESON is a leading designer and manufacturer of application-specific AC and DC motors and gearmotors in sub-fractional, fractional and integral horsepower sizes. We offer a database of over 30,000 custom designs, experienced application and design engineering teams, to ensure the best, most cost-effective custom motor solution.

CUSTOM MULTI-SPEED & LOW-SPEED MOTORS

LEESON's PDQ Modular Production Program utilizes specially designed and standard components to make almost any imaginable NEMA frame multi-speed or low-speed motor available when you need it. We pride ourselves on fast turnaround times on highly customized motors.

Custom motors include two, three and four-speed motors and speed ranges of 900, 720, 600, 450 and 300 RPMs. We also specialize in non-standard shaft designs.

For quotations, availability and application assistance, phone toll-free to our Canadian manufacturing facility at 1-800-463-1797.



Below is a listing of a few of our Factory “Build-up” options. Please contact our local Sales office for more information.

ADDITIONAL LEAD LENGTH	GROUND PROVISIONS
HIGH ALTITUDE	HARDWARE
AMBIENT	HIGH INERTIA LOAD
CONDUIT BOXES	INSULATION
BALANCE	LEADS
BEARINGS	LUBRICATION
ROLLER BEARINGS	MARINE DUTY
INSULATED BEARINGS	NAMEPLATES
BLOWER TYPES	PAINT
BRAKES	SCREENS
CONNECTIONS / CORDS	SEALS & SLINGERS
WYE DELTA	SEVERE DUTY
PART WIND START	SERVICE FACTOR
DOCUMENTATION - SUBMITTAL DATA	SHAFTS
DOWELING	SPACE HEATERS
DRAINS	TACHOMETERS - SEE ENCODERS
ENCODERS	TACONITE DUTY - SEE INPRO SEALS
END TURN BRACING	TERMINAL BLOCKS / STRIPS
END BRACKETS - FACES & FLANGES	TESTS
FREQUENCY - Other than 60HZ	THERMAL PROTECTION
GREASE FITTINGS	VERTICAL MODIFICATION
GREASE: LOW TEMP	VIBRATION DETECTOR
GREASE: HIGH TEMP	VOLTAGE - SPECIAL

Cross Reference Exception Codes

LEESON Product Base Exceptions

- B01 Install base kit 175032 (Extra cost)
- B02 Install base kit 175033 (Extra cost)
- B03 Install base kit 175034 (Extra cost)
- B04 Install base kit 175035 (Extra cost)
- B05 Install base kit 175036 (Extra cost)
- B06 Install base kit 175037 (Extra cost)
- B07 Install base kit 175038 (Extra cost)
- B08 Install base kit 175039 (Extra cost)
- B09 Install base kit 175040 (Extra cost)
- B10 Install base kit 175041 (Extra cost)
- B11 Install base kit 175042 (Extra cost)
- B12 Install base kit 175043 (Extra cost)
- B13 Install base kit 175044 (Extra cost)
- B14 Install base kit 175045 (Extra cost)
- B15 Install base kit 175046 (Extra cost)
- B16 Install base kit 175047 (Extra cost)
- B17 Install base kit 175048 (Extra cost)
- B18 Install base kit 175049 (Extra cost)
- B19 Install base kit 175088 (Extra cost)
- B20 Install base kit 175089 (Extra cost)
- B21 Install base kit 175090 (Extra cost)
- B22 Install base kit 175091 (Extra cost)
- B23 Install base kit 175092 (Extra cost)
- B24 Install base kit 175093 (Extra cost)
- B25 Install base kit 175094 (Extra cost)
- B26 Install base kit 175095 (Extra cost)
- B27 Install base kit 175097 (Extra cost)
- B28 Install base kit 175098 (Extra cost)
- B29 Install base kit 175127 (Extra cost)
- B30 LEESON motor has a 56 frame base
- B31 LEESON motor has rigid base
- B32 LEESON motor has resilient base
- B33 LEESON motor has no base
- B34 LEESON's motor base is not removable
- B35 LEESON motor has base with mounting holes for 56 & 143-5T
- B36 LEESON base mounting holes not 'Drop-in' replacement
- B37 Install base kit M1760006 (Extra cost)
- B38 LEESON motor has 184JM base and shaft

LEESON Product Construction Exceptions

- C01 LEESON motor has steel frame
- C02 LEESON motor has cast iron frame
- C03 LEESON motor has mechanical switch
- C04 Reassemble LEESON motor to F2 mounting
- C05 LEESON motor has base with mounting holes for 56, 143-5T and 5/8" Nema 56 shaft
- C06 LEESON motor is not BISSC certified
- C07 LEESON motor is capacitor start/capacitor run design
- C08 LEESON motor is normal efficiency
- C09 LEESON motor has double shielded ball bearings
- C10 LEESON motor is capacitor start/induction run design
- C11 LEESON motor has 1.0 service factor
- C12 LEESON motor is ball bearing design
- C13 LEESON motor is 208-230 volts
- C14 LEESON motor has steel fan-guard
- C15 LEESON motor is premium efficiency design
- C16 LEESON motor has ball bearing instead of roller bearing drive end
- C17 LEESON motor does not have extended thru-bolts
- C18 LEESON motor has 145TC face with 182T base
- C19 LEESON motor requires C face adapter
- C20 LEESON motor is 1650 RPM
- C21 LEESON motor has no cord or plug
- C22 LEESON motor is IP54
- C23 LEESON motor is 1625 RPM
- C24 LEESON motor is 1075 RPM
- C25 LEESON motor is class B insulated
- C26 LEESON motor is Class I Group D, Class II Groups F & G
- C27 LEESON motor is 60/50HZ
- C28 LEESON motor has external capacitor
- C29 LEESON motor is PSC design

- C30 LEESON does not have tapped-hole (as standard) for pulse generator
- C31 LEESON gearbox mounting face includes 3-point mounting
- C32 LEESON motor is dual voltage rated - 115/230
- C33 LEESON armature voltage is 90V DC
- C34 LEESON motor is 230V only
- C35 LEESON motor is non-reversible
- C36 LEESON motor is reversible
- C37 LEESON motor shaft endshield is totally enclosed
- C38 Install explosion proof conduit box 175026 (Extra cost)
- C39 LEESON motor has 1.15 service factor
- C40 LEESON motor has 1.25 service factor
- C41 LEESON motor has 1.35 service factor
- C42 LEESON motor has a 145T "C" face and shaft with welded on base
- C43 LEESON motor may not be used on 190-208/380-416V 50HZ at full rated HP
- C44 IEEE 841 modification required - reference mod squad motor modifications L26
- C45 LEESON motor has cast iron C face
- C46 LEESON motor is 60HZ Only
- C47 LEESON motor is 208-230/460V
- C48 LEESON motor is class F insulated
- C49 LEESON motor is EPM efficiency
- C50 LEESON motor is design B
- C51 LEESON motor is all stainless steel
- C52 LEESON motor has 12 leads
- C53 LEESON motor has standard paint
- C54 LEESON motor is 460 Volt only
- C55 LEESON motor has a solid-state switch
- C56 LEESON motor does not rodent screens

LEESON Product Enclosure Exceptions

- E01 LEESON motor is totally enclosed non-ventilated
- E02 LEESON motor is totally enclosed fan-cooled
- E03 LEESON motor is drip proof

LEESON Product Frame Size Exceptions

- F01 LEESON frame size is 48
- F02 LEESON frame size is S56
- F03 LEESON frame size is 56
- F04 LEESON frame size is 56C
- F05 LEESON frame size is 56H
- F06 LEESON frame size is 145T
- F07 LEESON frame size is 145TC
- F08 LEESON frame size is 182T
- F09 LEESON frame size is 184T
- F10 LEESON frame size is 184TC
- F11 LEESON frame size is 184JM
- F12 LEESON frame size is 215T
- F13 LEESON frame size is 286T
- F14 LEESON frame size is 326T
- F15 LEESON frame size is 364T
- F16 LEESON frame size is 365T
- F17 LEESON frame size is 405T
- F18 LEESON frame size is 444T
- F19 LEESON frame size is 445T
- F20 LEESON frame size is 447T
- F21 LEESON frame size is D63D
- F22 LEESON frame size is 143T
- F23 LEESON frame size is 404T
- F24 LEESON frame size is 213TC
- F25 LEESON frame size is 449T
- F26 LEESON frame size is 256JM
- F27 LEESON frame size is 284JM
- F28 LEESON frame size is 286JM
- F29 LEESON frame size is 56HC
- F30 LEESON frame size is SS56
- F31 LEESON frame size is S213T
- F32 LEESON frame size is 326TS
- F33 LEESON frame size is 324TS
- F34 LEESON frame size is 284TC
- F35 LEESON frame size is 324TC



Continued On Next Page

LEESON Product Horsepower Exceptions

- H01 LEESON motor is rated 1/2 HP
- H02 LEESON motor is rated 1 HP
- H03 LEESON motor is rated 1/3 HP
- H04 LEESON motor is rated 1/4 HP
- H05 LEESON motor is rated 4.0 KW/5.5 HP
- H06 LEESON motor is rated 1/6 HP
- H07 LEESON motor is rated 3/4 HP

LEESON Product Kit Exceptions

- K01 Install AC metric (63 frame) B5 flange kit 175850 (Extra cost)
- K02 Install AC metric (71 frame) B5 flange kit 175852 (Extra cost)
- K03 Install AC metric (80 frame) B5 flange kit 175854 (Extra cost)
- K04 Install AC metric (90 frame) B5 flange kit 175856 (Extra cost)
- K05 Install AC metric (100 frame) B5 flange kit 175984 (Extra cost)
- K06 Install AC metric (112 frame) B5 flange kit 175986 (Extra cost)
- K07 Install AC metric (132 frame) B5 flange kit 175988 (Extra cost)
- K08 Install AC metric (160 frame) B5 flange kit 175890 (Extra cost)
- K09 Install AC metric (180 frame) B5 flange kit 175890 (Extra cost)
- K10 Install AC metric (63 frame) B14 flange kit 175851 (Extra cost)
- K11 Install AC metric (71 frame) B14 flange kit 175863 (Extra cost)
- K12 Install AC metric (80 frame) B14 flange kit 175855 (Extra cost)
- K13 Install AC metric (90 frame) B14 flange kit 175857 (Extra cost)
- K14 Install AC metric (100 frame) B14 flange kit 175985 (Extra cost)
- K15 Install AC metric (112 frame) B14 flange kit 175987 (Extra cost)
- K16 Install AC metric (132 frame) B14 flange kit 175989 (Extra cost)
- K17 Install AC metric (160 frame) B14 flange kit 175991 (Extra cost)
- K18 Install DC metric (71 frame) B5 flange kit 175106 (Extra cost)
- K19 Install DC metric (80 frame) B5 flange kit 175108 (Extra cost)
- K20 Install DC metric (90 frame) B5 flange kit 175108 (Extra cost)
- K21 Install DC metric (100 frame) B5 flange kit 175137 (Extra cost)
- K22 Install DC metric (71 frame) B14 flange kit 175107 (Extra cost)
- K23 Install DC metric (80 frame) B14 flange kit 175109 (Extra cost)
- K24 Install DC metric (90 frame) B14 flange kit 175129 (Extra cost)
- K25 Install DC metric (100 frame) B14 flange kit 175130 (Extra cost)
- K26 Install NEMA steel frame C Face kit 175661 (Extra cost)
- K27 Install NEMA steel frame C Face kit 175294 (Extra cost)
- K28 Install NEMA steel frame C Face kit 175297 (Extra cost)
- K29 Install NEMA steel frame C Face kit 175075 (Extra cost)
- K30 Install NEMA steel frame C Face kit 175076 (Extra cost)
- K31 Install NEMA steel frame C Face kit 175078 (Extra cost)
- K32 Install NEMA steel frame C Face kit 175181 (Extra cost)
- K33 Install NEMA steel frame C Face kit 175077 (Extra cost)
- K34 Install NEMA steel frame C Face kit 175969 (Extra cost)
- K35 Install NEMA steel frame C Face kit 175691 (Extra cost)
- K36 Install NEMA steel frame C Face kit 175303 (Extra cost)
- K37 Install NEMA steel frame C Face kit 175007 (Extra cost)
- K38 Install NEMA steel frame C Face kit 175693 (Extra cost)
- K39 Install NEMA steel frame C Face kit 175008 (Extra cost)
- K40 Install NEMA steel frame C Face kit 175845 (Extra cost)
- K41 Install NEMA steel frame C Face kit 175844 (Extra cost)
- K42 Install NEMA steel frame C Face kit 175304 (Extra cost)
- K43 Install NEMA cast iron C Face kit 175655 (Extra cost)
- K44 Install NEMA cast iron C Face kit 175066 (Extra cost)
- K45 Install NEMA cast iron C Face kit 175068 (Extra cost)
- K46 Install NEMA cast iron C Face kit 175067 (Extra cost)
- K47 Install NEMA cast iron C Face kit 175069 (Extra cost)
- K48 Install NEMA cast iron C Face kit 175191 (Extra cost)
- K49 Install NEMA cast iron C Face kit 175058 (Extra cost)
- K50 Install NEMA cast iron C Face kit 175061 (Extra cost)
- K51 Install NEMA cast iron C Face kit 175059 (Extra cost)
- K52 Install NEMA cast iron C Face kit 175062 (Extra cost)
- K53 Install NEMA cast iron C Face kit 175060 (Extra cost)
- K54 Install NEMA cast iron C Face kit 175063 (Extra cost)
- K55 Install NEMA cast iron C Face kit 175199 (Extra cost)
- K56 Install NEMA cast iron C Face kit 175664 (Extra cost)
- K57 Install Chemical Service/Severe Duty (182/184T) kit 175663 (Extra cost)
- K58 Install Chemical Service/Severe Duty (213/215T) kit 175050 (Extra cost)
- K59 Install Chemical Service/Severe Duty (254/256T) kit 175051 (Extra cost)
- K60 Install Chemical Service/Severe Duty (284/286T) kit 175052 (Extra cost)

- K61 Install Chemical Service/Severe Duty (324/326T) kit 175053 (Extra cost)
- K62 Install Chemical Service/Severe Duty (364/365T) kit 175054 (Extra cost)
- K63 Install Chemical Service/Severe Duty (404/405T) kit 175055 (Extra cost)
- K64 Install Chemical Service/Severe Duty (444/445T) kit 175056 (Extra cost)
- K65 Install NEMA D Flange (182/184T) kit 175694 (Extra cost)
- K66 Install NEMA D Flange (182/184T) kit 175658 (Extra cost)
- K67 Install NEMA D Flange (213/215T) kit 175114 (Extra cost)
- K68 Install NEMA D Flange (213/215T) kit 175115 (Extra cost)
- K69 Install NEMA D Flange (254/256T) kit 175116 (Extra cost)
- K70 Install NEMA D Flange (364/365T) kit 175995 (Extra cost)
- K71 Install NEMA D Flange (254/256T) kit 175192 (Extra cost)
- K72 Install NEMA D Flange (284/286T) kit 175118 (Extra cost)
- K73 Install NEMA D Flange (284/286T) kit 175119 (Extra cost)
- K74 Install NEMA D Flange (324/326T) kit 175120 (Extra cost)
- K75 Install NEMA D Flange (324/326T) kit 175121 (Extra cost)
- K76 Install NEMA D Flange (364/365T) kit 175657 (Extra cost)
- K77 Install Textile "Lint-Proof" kit 175024 (Extra cost)
- K78 Install Textile "Lint-Proof" kit 175025 (Extra cost)
- K79 Install Textile "Lint-Proof" kit 175695 (Extra cost)
- K80 Install Drip-Cover (213/215JP) kit 175305 (Extra cost)
- K82 Install Drip-Cover (56) kit 175004 (Extra cost)
- K83 Install Drip-Cover (143/145T) kit 175004 (Extra cost)
- K84 Install Drip-Cover (182/184T) kit 175614 (Extra cost)
- K85 Install Drip-Cover (213/215T) kit 175849 (Extra cost)
- K86 Install conduit box kit M1760007 (Extra cost)
- K87 Install conduit box kit M1760021 (Extra cost)
- K88 Install NEMA Wattsaver cast iron C face kit 175869 (Extra cost)
- K89 Install Drip-Cover (56) kit 175298 (Extra cost)
- K90 Install NEMA Wattsaver cast iron C face kit 175842 (Extra cost)
- K91 Install Brake kit 175178 (Extra cost)
- K92 Install AC Metric (200 frame) B5 flange 175994 (Extra cost)
- K93 Install AC Metric (200 frame) B5 flange 175995 (Extra cost)
- K94 Install NEMA Cast Iron C-Face kit 175842 (Extra cost)
- K95 Install NEMA Cast Iron C-Face kit 175958 (Extra cost)
- K96 Install NEMA Cast Iron C-Face kit 175454 (Extra cost)
- K97 Install NEMA Cast Iron C-Face kit 175394 (Extra cost)
- K98 Install NEMA D Flange (324/326T) kit 175455 (Extra cost)
- K99 Install NEMA D Flange (404/405T) kit 175956 (Extra cost)
- K100 Install NEMA D Flange (404/405T) kit 175957 (Extra cost)
- K101 Install NEMA D Flange (213/215T) Wattsaver kit 175959 (Extra cost)
- K102 Install NEMA D Flange (182/184T) Wattsaver kit 175396 (Extra cost)
- K103 Install Drip-Cover (182/184T) Cast Iron kit 175961 (Extra cost)
- K104 Install Drip-Cover (213/215TT) Cast Iron kit 175962 (Extra cost)
- K105 Install Drip-Cover (254/256T) Cast Iron kit 175963 (Extra cost)
- K106 Install Chemical Service/Severe Duty (447/449T) kit 175891 (Extra cost)

LEESON Product Protector Exceptions

- P01 LEESON motor has automatic reset protector
- P02 LEESON motor has manual reset protector
- P03 LEESON motor has no thermal overload protector

LEESON Product Shaft Exceptions

- S01 LEESON motor has a 182-4T shaft extension
- S02 LEESON motor has a 213-5T shaft extension
- S03 LEESON motor has a 254-6T shaft extension
- S04 LEESON motor shaft is 1 inch longer
- S05 LEESON motor has shaft that is a TS not T
- S06 LEESON motor has phosphatized shaft
- S07 LEESON has .625 inch diameter shaft
- S08 LEESON has single output shaft
- S09 LEESON shaft center-line height from base is 1.48 inches
- S10 LEESON shaft on left side facing the gearbox
- S11 LEESON shaft center-line height from the base is 1.67 inches
- S12 LEESON motor has 1 1/8" shaft
- S13 LEESON motor has 416 stainless shaft
- S14 LEESON shaft dimensions not "drop in" replacement

LEESON Product Thermostat Exceptions

- T01 LEESON motor has no thermostats
- T02 LEESON motor has normally closed thermostats



IEC Motors

DC Motors

Geomotors

AC / DC Controls

Accessories / Kits

Mods / Factory Options

X-Ref / Index

Tech Information

Terms / Warnings

Cross Reference

Baldor to Leeson and Lincoln

Competitor Catalog #	LEESON Catalog #	Exception Code(s) To LEESON	Lincoln Catalog #
1309-50	113903.00		
AFL3520A	111332.00		
AFL3521A	111333.00		
AFL3522A	120374.00		
AFL3523A	120375.00		
AFL3524A	120376.00		
AFL3525A	111949.00		
AFM3528	111334.00		
AFM3529	111335.00		
AFM3530	120377.00		
AFM3532	120379.00		
ANFL3501M	101435.00		LM24462
ANFL3504M	101436.00		LM24463
ANFL3507M	101437.00		LM24812
ANFL3510M	113302.00		LM24813
ANFL3514M	113301.00		LM24814
BL3507	114167.00	F04	
BL3510	111951.00	F04	
BL3517	114165.00	F04	
BL3518	111950.00	F04	
BM3108	114162.00		
BM3112	114163.00		
BM3116	114164.00		
BM3154T	G120370.00		
BM3157T	G120371.00		
BM3248T	G131627.00		
BM3538	114150.00		
BM3539	114149.00		
BM3542	114147.00		
BM3543	114148.00		
BM3546	114146.00		
BM3546T	G121679.00		
BM3554	116767.00		
BM3554T	G120329.00		
BM3556T	G121050.00		
BM3558T	G120330.00		
BM3569	114151.00		
BM3611T	G131613.00		
BM3614T	G131620.00		
BM3615T	G131614.00		
BM3704T	G140601.00		
BM3710T	G140603.00		
BM3714T	G140636.00		
BM3730T	G140603.00		
CBM3546T	G121557.00		
CBM3554T	G121051.00		
CBM3558T	G121052.00		
CBM3611T	G131617.00		
CBM3615T	G131618.00		
CBM3710T	G140605.00		
CBM3714T	G140639.00		
CDP3306	098003.00	F30	
CDP3310	098002.00	F30	
CDP3316	098005.00	F30	
CDP3320	098004.00	F30	
CDP3326	098008.00	F30	
CDP3330	098000.00	F30	
CDP3335	098006.00	E02	
CDP3410-V12	108045.00	F02	
CDP3420-V12	108046.00	F02	
CDP3420-V24	108050.00	F02	
CDP3430-V12	108047.00		
CDP3430-V24	108051.00	F02	
CDP3436	098069.00	F30	
CDP3440	098032.00	F30	
CDP3440-V12	108048.00	F02	
CDP3440-V24	108052.00	F02	
CDP3443	098009.00	F30	
CDP3445	108022.00	F02	
CDP3445-V12	108322.00	F02	
CDP3445-V24	108053.00	F02	
CDP3450	108020.00	F02	
CDP3455	108023.00	F02	

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CDP3460	108021.00	F02	
CDP3575	108092.00	F02	
CDP3575	128000.00		
CDP3580	108265.00	F02	
CDP3585	128010.00		
CDP3590	108266.00		
CDP3604	108502.00		
CDPSWD3410	109065.00		
CDPSWD3426	109070.00		
CDPSWD3430	109069.00		
CDPSWD3545	109075.00		
CDPSWD3555	109076.00		
CDPWD3306	098375.00	F02	
CDPWD3310	108423.00	F02	
CDPWD3316	098376.00	F02	
CDPWD3320	108424.00	F02	
CDPWD3326	108227.00	F02	
CDPWD3330	108226.00	F02	
CDPWD3436	108229.00	E01	
CDPWD3440	108228.00		
CDPWD3445	108230.00	F02	
CDPWD3455	108231.00	F02	
CDPWD3575	108232.00	F02	
CDPX3420	118015.00	F02	
CDPX3426	118017.00	F02	
CDPX3430	118016.00	F02	
CDPX3436	118019.00	F02	
CDPX3440	118018.00	F02	
CECP83769T4	811550.00		
CEM2333T	171587.60		LM16762
CEM2334T	171589.60		LM62032
CEM2394T	171586.60		LM16761
CEM2513T	170175.60	C02	LM32781
CEM2514T	170070.60	C02	LM32782
CEM2515T	170071.60	C02	LM32783
CEM2516T	171688.60	C02	LM32784
CEM2531T	170073.60	C02	LM31245
CEM2535T	171377.60	C02	LM31246
CEM2539T	170378.60	C02	LM13837
CEM2547T	171689.60	C02	LM15570
CEM2551T	171690.60	C02	LM15573
CEM2555T	171691.60	C02	LM17387
CEM3116T	121935.00		LM32762
CEM3154T	121675.00		
CEM3157T	121676.00		LM32768
CEM3158T	121928.00		LM32770
CEM3211T	132081.00		LM32771
CEM3212T	132242.00		LM32773
CEM3218T	132082.00		LM32774
CEM3219T	132244.00		LM32776
CEM3311T	140767.00		LM32666
CEM3312T	141111.00		LM32778
CEM3313T	140768.00		LM32649
CEM3314T	141119.00		
CEM3543T	170379.60	C02	LM13839
CEM3546	116745.00		
CEM3546T	121179.00		LM32822
CEM3550T	121672.00		LM32824
CEM3554	116746.00		
CEM3554T	121180.00		LM32825
CEM3555T	121673.00		LM32828
CEM3558	116747.00		
CEM3558T	121181.00		LM32829
CEM3559T	121929.00		
CEM3581T	121179.00	C01	LM32822
CEM3583T	121672.00	C01	LM32824
CEM3584T	121180.00	C01	LM32825
CEM3586T	121673.00	C01	LM32828
CEM3587T	121181.00	C01	LM32829
CEM3610T	132079.00		LM16741
CEM3611T	131504.00		LM16742
CEM3613T	132080.00		LM16745
CEM3615T	131502.00		LM16747

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CEM3660T	132079.00	C01	LM16741
CEM3660T	171564.60		LM62016
CEM3661T	131504.00	C01	LM16742
CEM3661T	171565.60		LM62017
CEM3663T	132080.00	C01	LM16745
CEM3663T	171446.60		LM62019
CEM3664T	132243.00		LM32830
CEM3665T	131502.00	C01	LM16747
CEM36665T	171566.60		LM62020
CEM3704T	140834.00		LM32833
CEM3709T	140770.00		LM16750
CEM3710T	140521.00		LM32838
CEM3714T	140522.00		LM32841
CEM3768T	171116.60		LM32835
CEM3769T	140770.00	C01	LM16750
CEM3769T	170166.60		LM62085
CEM3770T	140521.00	C01	LM32838
CEM37711T	170168.60		LM62025
CEM3771T	140769.00	C01	LM32840
CEM3774T	140522.00	C01	LM32841
CEM4103T	171591.60		LM62035
CEM4104T	171592.60		LM16744
CEM4106T	171588.60		LM62031
CEM4107T	171590.60		LM32659
CEM4108T	170108.60		LM16773
CEM4109T	170110.60		LM13725
CEM4110T	171593.60		LM62041
CEM4114T	170112.60		LM13727
CEM4115T	171594.60		LM62044
CEM4198T	171591.60		LM62035
CEM4310T	170114.60		LM15562
CEM4313T	171115.60		LM15566
CEM4314T	171595.60		LM62047
CEM4316T	171596.60		LM15567
CEM4400T	171597.60		LM15263
CEM7034T	121920.00		
CEM7037T	121921.00	P01	
CEM7037T	121922.00		
CEM7042T	825126.00	C02	
CEM7044T	825071.00	C02	
CEM7045T	825072.00	C02	
CEM7047T	825073.00	C02	
CEM7053T	825076.00		
CEM7054T	825077.00		
CEM7058T	825081.00		
CEM7059T	825078.00		
CEM7060T	825082.00		
CEM7062T	825083.00		
CEM7063T	825080.00		
CEM7064T	825084.00		
CEM7072T	825127.00	C02	
CEM7170T	825075.00		
CEM7174T	825074.00		
CESSWDM3550T	121874.00	F02	
CESSWDM3554	117284.00	F29	
CESSWDM3554T	121873.00		
CESSWDM3558T	121877.00		
CESSWDM3559T	121878.00		
CESSWDM3613T	132207.00		
CESSWDM3615T	132208.00		
CESSWDM3709T	140825.00		
CESSWDM3710T	140826.00		
CESSWDM3711T	140827.00		
CESSWDM3714T	140828.00		
CESWDM35554T	121912.00		
CESWDM3558T	121913.00		
CEWDBM3538	116467.00	C08	
CEWDBM3542	116468.00	C08	
CEWDBM3546	116469.00	C08	
CEWDBM3546T	121616.00	C08	
CEWDBM3554T	G121617.00	C08 E02	
CEWDBM3558T	G121618.00	C08	
CEWDBM3615T	G121618.00		

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CEWDM3546T	121867.00		
CEWDM3558T	121868.00		
CEWDM3559T	121870.00		
CEWDM355T	121871.00		
CEWDM3611T	132108.00		
CEWDM3611T	132198.00		
CEWDM3613T	132200.00		
CEWDM3615T	132201.00		
CEWDM3709T	141120.00		
CEWDM3710T	140822.00		
CEWDM3714T	140821.00		
CFDL3501M	116485.00		
CFDL3504M	116486.00		
CFDL3507M	116487.00		
CFDL3510M	116488.00	F04	
CFDL3514M	116489.00	C39	
CFDL3516TM	121625.00		
CFM3136A	116772.00	S14	
CFM3146A	116773.00	S14	
CFM3156A	111147.00		
CFM3166A	111148.00		
CHC144A	100803.00		LM2447
CHC164A	100824.00		LM24442
CHC244A	100804.00		LM24448
CHC264A	100825.00		LM24443
CHC3413A	100803.00		LM2447
CHC3414A	100824.00		LM24442
CHC3416A	100804.00		LM24448
CHC3417A	100825.00		LM24443
CHC345A	111323.00		
CHC3524A	101645.00		LM24444
CHC3524A	111323.00		
CHC3525A	111321.00		
CHC3526A	111919.00		
CHC3528A	111322.00		
CHC364A	101645.00		LM24444
CHC365A	111321.00		
CHC445A	111324.00		
CHC465A	111266.00		
CHC545A	111267.00		
CHL3523A	101176.00	B31	
CJL3504A	113637.00		
CJL3507A	113638.00		
CJM3107	102199.00		
CJM3111	101776.00		
CJM3115	101775.00		
CJM3120	114203.00		
CJM3155	114202.00		
CJM3158	114201.00		
CJM3542	113028.00		
CL1301	103023.00		
CL1303	103024.00		
CL1304	101651.00		LM24697
CL1307	101650.00		LM24699
CL1310	113930.00		LM24700
CL1408TM	131629.00		
CL1408TM	131853.00		
CL1410TM	131630.00		
CL1430TM	131630.00		
CL3403	102916.00	F02	LM24723
CL3405	102929.00	F02	LM24724
CL3501	102930.00	F02	LM24600
CL3503	102903.00		LM24725
CL3504	102907.00		LM24628
CL3506	112135.00		LM24726
CL3507	110905.00		LM24615
CL3509	110180.00		LM24727
CL3510	110908.00		LM24616
CL3513	110909.00		LM24539
CL3514	110910.00		LM24728
CL3515	113931.00		LM24729
CL3515T	121008.00		LM24730
CL3516TM	121465.00	C25	



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CL3608TM	131632.00	C39	
CL3612TM	131633.00		
CL3619TM	131631.00		
CL3619TM	131857.00	C25 C39	
CL3711T	140695.00		
CL3712T	140678.00	C48	
CL5001A	116606.00		
CL5003A	116608.00	F29	
CL5004A	116609.00	F29	
CL5007A	116612.00	F29	
CL5009A	116613.00	F29	
CL5013	116615.00	B22	
CL5023A	116614.00	F29	
CL5030T	116615.00	F29	
CL5031T	116616.00	F29	
CM2333T	G150102.60		
CM2333T-5	150116.60	K48	
CM2334T	G150080.60		
CM2334T-5	150117.60	K48	
CM2513T	G150175.60	C02	
CM2514T	G150070.60	C02	
CM2515T	G150071.60	C02	
CM2516T	G151688.60	C02	
CM2531T	G150073.60	C02	
CM2535T	G151377.60	C02	
CM2539T	G151378.60	C02	
CM2543T	G151379.60	C02	
CM2547T	G151689.60	C02	
CM2551T	G151690.60	C02	
CM2555T	G151691.60	C02	
CM3104	100599.00	F02	LM24277
CM3107	100600.00	F02	LM24879
CM3108	100601.00	F02	LM24880
CM3112	100602.00		LM24267
CM3116T	G121650.00		
CM3154T	G121674.00		
CM3154T	G121651.00		
CM3155	114218.00		
CM3157T	G120275.00		
CM3158T	G121072.00	C25	
CM3211T	G130325.00		
CM3212T	G131249.00		
CM3218T	G130327.00		
CM3219T	G131250.00		
CM3311T	G140589.00		
CM3312T	G140692.00		
CM3313T	G140146.00		
CM3314T	G140693.00		
CM3534	102922.00		LM24114
CM3534-5	101051.00	H01 K28	
CM3537	114142.00		LM24129
CM3538	102917.00		LM24074
CM3538-5	101051.00	K28	
CM3539	110914.00		LM24104
CM3541	110915.00		LM24134
CM3542	110916.00		LM24076
CM3542-5	110178.00	K30	LM25095
CM3543	116340.00		LM24140
CM3545	110181.00		LM24126
CM3546	110912.00		LM24079
CM3546-5	110206.00	K30	LM25097
CM3546T	121936.00		
CM3546T	G121286.00	F07	
CM3546T-5	120122.00	K33	
CM3550	110917.00		LM24135
CM3550T	G121290.00		
CM3554	110918.00		LM24095
CM3554-5	110893.00	K30	LM25099
CM3554T	G121287.00		
CM3554T-5	120021.00	K33	
CM3555	113927.00		LM24121
CM3555T	G121510.00		

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CM3556T	G120428.00		
CM3557	114198.00		
CM3558	116106.00	F29	LM24081
CM3558T	G120276.00		
CM3558T-5	120019.00	K33	
CM3559	114615.00	F29	LM24953
CM3559T	G120991.00		
CM3559T-5	120423.00	K33	
CM3607T	116592.00		
CM3610T	G131899.00		
CM3611T	G130326.00		
CM3611T-5	131460.00	K35	
CM3613T	G131173.00	C02	
CM3613T-5	131552.00	K35	
CM3614T	G131497.00		
CM3615T	G130328.00		
CM3615T-5	131461.00	K35	
CM3616T	G130990.00		
CM3660T	G151564.60		
CM3661T	G151565.60		
CM3663T	G151446.60		
CM3665T	G151566.60		
CM3704T	G140602.00		
CM3708T	G140482.00		
CM3709T	G131774.00		
CM3710T	G140183.00		
CM3710T-5	140593.00	K41	
CM3711T	G140696.00		
CM3711T-5	150197.60	C02 K45	
CM3713T-5	150198.60	C02 K45	
CM3714T	G140147.00		
CM3714T-5	150212.60	C02 K45	
CM3769T	G150166.60		
CM3770T	G150165.60		
CM3771T	G150168.60		
CM3773T	G140697.00		
CM3774T	170167.60	C15	LM62026
CM3774T	G150167.60		
CM4103T	G150081.60		
CM4104T	G150082.60		
CM4106T	G150079.60		
CM4107T	G150106.60		
CM4108T	G150108.60		
CM4109T	G150110.60		
CM4110T	G150083.60		
CM4114T	G150112.60		
CM4115T	G150084.60		
CM4310T	G150114.60		
CM4313T	G150115.60		
CM4314T	G150085.60		
CM4316T	G150086.60		
CM4400T	G151680.60		
CM7005A	114627.00		
CM7006A	114628.00		
CM7006A	116190.00		
CM7009A	114629.00		
CM7010A	114630.00		
CM7013	114631.00		
CM7014T	114632.00	P01	
CM7014T	121919.00		
CM7014T	G121541.00		
CM7018T	114633.00	F04	
CM7034	114634.00	F29	
CM7037T	G121182.00		
CM7042T	G850617.00	C02	
CM7044T	G850618.00	C02	
CM7045T	G850589.00	C02	
CM7047T	G850619.00	C02	
CM7053T	G850591.00		
CM7054T	G850621.00		
CM7056T	G850622.00		
CM7058T	G850623.00		

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CM7059T	G850592.00		
CM7060T	G850624.00		
CM7062T	G850625.00		
CM7063T	G850593.00		
CM7064T	G850626.00		
CM7071T	114635.00	F29	
CM7072T	G850588.00	C02	
CM7075T	114636.00	F29	
CM7170T	G850620.00		
CM7174T	G850590.00		
CNM3538	102919.00	F02	
CP4400T-4	LM32896		
CP4402T	LM14644		
CP4406T-4	LM32902		
CP4407T-4	LM32905		
CP4408T-4	LM14643		
CP4410T-4	LM32899		
CP44256T-4	LM15723		
CP44304T	LM14642		
CP44354T-4	LM14645		
CSEWDM3558T	117299.00		
CSSEWDM3550T	121879.00		
CSSEWDM3550T	121908.00		
CSSEWDM3554T	121880.00		
CSSEWDM3554T	121909.00		
CSSEWDM3555T	121910.00		
CSSEWDM3558T	121911.00		
CSSSWDM3537	117118.00		
CSSSWDM3538	117119.00		
CSSSWDM3541	117120.00		
CSSSWDM3542	117121.00		
CSSSWDM3544	117296.00		
CSSSWDM3545	117122.00		
CSSSWDM3546	117123.00		
CSSSWDM3550T	G121748.00		
CSSSWDM3554T	G121749.00		
CSSSWDM3555T	G121739.00		
CSSSWDM3558T	121882.00		
CSSSWDM3558T	G121740.00		
CSSWDM3537	117269.00	F29	
CSSWDM3538	103387.00	F02	
CSSWDM3538	103411.00	F02	
CSSWDM3538	115633.00	F29	
CSSWDM3538	117266.00	F29	
CSSWDM3541	117271.00	F29	
CSSWDM3542	103388.00	F02	
CSSWDM3542	103412.00	F02	
CSSWDM3542	115634.00	F29	
CSSWDM3542	117267.00	F29	
CSSWDM3545	116169.00	F29	
CSSWDM3545	117273.00	F29	
CSSWDM3546	115635.00	F29	
CSSWDM3546	117286.00	F29	
CSSWDM3555T	G121812.00		
CSSWDM3558	117285.00	F29	
CSSWDM3559T	G121528.00		
CSSWDM3611T	G131900.00		
CSSWDM3613T	G131901.00		
CSSWDM3615T	G131902.00		
CSSWDM3709T	G140698.00		
CSSWDM3710T	G140675.00		
CSSWDM3711T	G140699.00		
CSSWDM3714T	G140676.00		
CSSWDM3554T	121875.00		
CSWDM3537	114560.00		
CSWDM3538	191204.00		
CSWDM3542	114561.00		
CSWDM3542	191207.00		
CSWDM3546	114562.00		
CSWDM3546	191291.00		
CSWDM3546T	121165.00		
CSWDM3546T	G191212.00	E01	

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CSWDM3554	191217.00	E01 F29	
CSWDM3554T	G191218.00	E01	
CSWDM3558	191223.00	F29	
CSWDM3558T	G191224.00		
CWDL3504	112527.00	C55	
CWDL3507	112528.00	C55	
CWDL3509	113583.00	C55	
CWDL3510	112529.00	C55	
CWDL3513	113584.00	C55	
CWDL3514	113300.00	C55 F29	
CWDM3537	113588.00		
CWDM3538	113586.00		
CWDM3538-5	112483.00	E02	
CWDM3539	115743.00		
CWDM3541	113589.00		
CWDM3542	113587.00		
CWDM3542-5	112484.00	E02	
CWDM3543	115744.00	F29	
CWDM3545	113590.00		
CWDM3546	112524.00	E02	
CWDM3546-5	112522.00	E02	
CWDM3546T	G120587.00	E02	
CWDM3550	113591.00	E01	
CWDM3554	112643.00	E02	
CWDM3554T	G121540.00	E02	
CWDM3555	113592.00	E01	
CWDM3555T	121039.00	E01	
CWDM3556	115745.00	F29	
CWDM3557	115746.00	F29	
CWDM3558	112644.00		
CWDM3558T	G120588.00		
CWDM3559T	G120911.00		
CWDM3611T	G130664.00		
CWDM3613T	G131167.00		
CWDM3615T	G131171.00		
CWDM3616T	132199.00		
CWDM3616T	G132016.00		
CWDM3709T	G131165.00		
CWDM3710T	G140466.00		
CWDM3711T	G140700.00		
CWDM3713T	G140701.00		
CWDM3714T	G140464.00		
CWSSWDM3610T	132206.00		
DGC1301M	191742.00		
DGC1304M	100802.00		
DGC1307M	113642.00		
EBM3211T	G131626.00	C49	
EBM3248T	G131627.00	C49	
EBM3311T	G140611.00	C49	
EBM3313T	G140635.00	C49	
ECP2276T	LM16656		
ECP2276T-4	170122.60	C47 C53 K59	LM15892
ECP2332T-4	170123.60	C47 C53 K59	LM15675
ECP2333T	LM32873		
ECP2333T-4	170066.60	C47 C53 K59	LM24208
ECP2334T	LM32876		
ECP2334T-4	170007.60	C47 C53 K59	LM24207
ECP2394T-4	170062.60	C47 C53 K59	LM15890
ECP3581T	LM32856		
ECP3582T	LM32587		
ECP3661T	171623.60		
ECP3661T	LM16644		
ECP3661T-4	171320.60	C47 C53 K57	LM60026
ECP3663T	LM32864		
ECP3664T	171634.60		
ECP3665T	LM16650		
ECP3665T4	171630.60		
ECP3764T-4	171378.60	C47 C53 K58	LM60027
ECP3768T	171635.60		
ECP3768T	LM32867		
ECP3768T-4	171379.60	C47 C53 K58	LM15883
ECP3769T-4	170158.60	C47 C53 K58	LM15878



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ECP3770T	LM32869		
ECP3770T-4	170157.60	C47 C53 K58	LM24209
ECP3771T-4	170159.60	C47 C53 K58	LM15861
ECP3774T	171617.60		
ECP3774T	LM16919		
ECP3774T-4	170140.60	C47 C53 K58	LM60036
ECP4100T	LM32874		
ECP4100T-4	170068.60	C47 C53 K60	LM15793
ECP4102T	LM32877		
ECP4102T-4	170001.60	C47 C53 K60	LM15796
ECP4103T	LM32879		
ECP4103T-4	170011.60	C47 C53 K60	LM15792
ECP4104T	LM32882		
ECP4104T-4	170015.60	C47 C53 K60	LM13964
ECP4106T-4	170033.60	C47 C53 K59	LM15673
ECP4107T-4	170035.60	C47 C53 K60	LM13960
ECP4108T-4	170037.60	C47 C53 K60	LM60046
ECP4109T-4	170039.60	C47 C53 K61	LM19749
ECP4110T-4	170019.60	C47 C53 K61	LM13699
ECP4111T-4	170003.60	C47 C53 K61	LM13696
ECP4114T	LM32685		
ECP4114T-4	170041.60	C47 C53 K61	LM60052
ECP4115T	LM32887		
ECP4115T-4	170023.60	C47 C53 K61	LM19753
ECP4117T-4	170005.60	C47 C53 K62	LM60048
ECP4308T-4	170096.60	C47 C53 K62	LM13918
ECP4310T-4	170043.60	C47 C53 K62	LM14808
ECP4312T	LM32888		
ECP4312T-4	170097.60	C47 C53 K62	LM19754
ECP4313T-4	170045.60	C47 C53 K62	LM14810
ECP4314T-4	170027.60	C47 C53 K62	LM14809
ECP4316T	LM32893		
ECP4316T-4	170031.60	C47 C53 K62	LM14811
ECP4400T-4	170087.60	C47 C53 K63	LM19762
ECP4402T	LM32895		
ECP4402T-4	170160.60	C47 C53 K63	LM13939
ECP4403T-4	170098.60	C47 C53 K63	LM13938
ECP4404T-4	170099.60	C47 C53 K63	LM60060
ECP4406T-4	170371.60	C47 C53 K64	LM13707
ECP4407T-4	170352.60	K64	LM16230
ECP4408T-4	151516.60	C08 C53	
ECP4409T-4	170256.60	C53 K64	LM13702
ECP4410T-4	170369.60	C47 C53 K64	LM60065
ECP4411T-4	170260.60	C53 K64	LM13705
ECP44156T-4	171315.60	C47 C53 K64	LM16231
ECP44206T-4	171316.60	C47 C53 K106	LM60072
ECP64314T-4	811567.00		
ECP82333T-4	811555.00		
ECP82334T-4	811557.00		
ECP82394T-4	811554.00		
ECP83581T-4	811541.00		
ECP83583T-4	811542.00		
ECP83584T-4	811543.00		
ECP83586T-4	811544.00		
ECP83587T-4	811545.00		
ECP83660T	811546.00		
ECP83661T	811547.00		
ECP83663T	811548.00		
ECP83665T-4	811549.00		
ECP83769T-4	811550.00		
ECP83770T-4	811551.00		
ECP83774T-4	811553.00		
ECP8377IT-4	811552.00		
ECP84103T-4	811559.00		
ECP84104T-4	811561.00		
ECP84106T-4	811556.00		
ECP84107T-4	811558.00		
ECP84108T-4	811560.00		
ECP84109T-4	811562.00		
ECP84110T-4	811563.00		
ECP84114-T	811564.00		
ECP84115T-4	811564.00		

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ECP84310T-4	811566.00		
ECP84313T-4	811568.00		
ECP84400T-4	811571.00		
ECP84402T-4	811570.00		
ECP94316T-4	811569.00		
EFM2333T	170066.60	C04	LM24208
EFM2334T	170007.60	C04	LM24207
EFM2513T	170065.60	C04	LM24190
EFM2515T	170006.60	C04	LM24199
EFM2531T	170009.60	C04	LM29576
EFM2535T	170013.60	C04	LM29577
EFM2539T	170017.60	C04	LM13811
EFM2543T	170021.60	C04	LM13813
EFM2547T	170025.60	C04	LM14813
EFM3211T	171320.60	C04	LM60026
EFM3211T	G131240.00		
EFM3218T	171322.60	C04	LM24195
EFM3218T	G131239.00		
EFM3311T	170142.60	C04	
EFM3311T	G140609.00		
EFM3313T	170144.60	C04	
EFM4103T	170011.60	C04	LM15792
EFM4104T	170015.60	C04	LM13964
EL1203	101423.00	C08 C25	LM24458
EL1301	113765.00	E02	
EL1304	113766.00	E02	
EL1307	101544.00	F02	LM24504
EL1310	113630.00		
EL1319	113769.00	E02	
EL1319T	110005.00	C08	LM24583
EL1319T	120042.00	C08	LM24687
EL1405T	131515.00	C08	LM24678
EL1408T	131534.00	C08 C10 C25	LM24680
EL1408T	131851.00		
EL1410T	131537.00	C08	LM24682
EL3501	113765.00	C25 P02	
EL3504	113766.00	C25 P02	
EL3507	113767.00	C25 P02	
EL3510	113768.00	C25 F03	
EL3514	113769.00	C25 F03	
EL3514T	113769.00	C05 F05 P02	
EL3605T	131541.00	C08 F08	LM24796
EL3609T	131533.00	C08	LM24716
EL3612T	131538.00	C08	LM24718
EM2276T	170122.60		LM15892
EM2332T	170123.60		LM15675
EM2333T	170066.60		LM24208
EM2333T-5	170116.60	C02	LM16400
EM2334T	170007.60		LM24207
EM2334T-5	170117.60	C02	LM15919
EM2394T	170062.60		LM15890
EM2394T-5	170198.60	C02	LM17075
EM2506T	170145.60	C02	LM32738
EM2511T	170146.60	C02	LM32742
EM2513T	170065.60	C02	LM24190
EM2514T	170032.60	C02	LM32745
EM2515T	170006.60	C02	LM24199
EM2516T	170034.60	C02	LM32747
EM2524T	170067.60	C02	LM31244
EM2528T	170000.60	C02	LM30273
EM2531T	170009.60	C02	LM29576
EM2532T	170002.60	C02	LM13809
EM2534T	170036.60	C02	LM32687
EM2535T	170013.60	C02	LM29577
EM2536T	170004.60	C02	LM13810
EM2538T	170038.60	C02	LM13969
EM2539T	170017.60	C02	LM13811
EM2540T	170147.60		LM13924
EM2542T	170040.60	C02	LM13812
EM2543T	170021.60	C02	LM13813
EM2544T	170148.60		LM13927
EM2546T	170042.60	C02	LM13814

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EM2547T	170025.60	C02	LM14813
EM2548T	170149.60	C02	LM13944
EM2549T	170044.60	C02	LM13945
EM2550T	170151.60	C02	LM14814
EM2551T	170029.60	C02	LM14815
EM2552T	170150.60	C02	LM13947
EM2554T-4	170154.60	C02 C47	LM13942
EM2555T	170152.60	C02	LM13943
EM2555T-4	170152.60	C02 C47	LM13943
EM2556T-4	171449.60	C02	LM13945
EM2557T-4	170155.60	C47	LM13946
EM2557T-4	170259.60		LM13816
EM2558T-4	171522.60		LM13817
EM2559T-4	170155.60	C02 C47	LM13946
EM2560T-4	171576.60		LM13818
EM2562T-4	171573.60		LM13819
EM2563T-4	171523.60		LM13820
EM2564T-4	171577.60		LM16239
EM2569T-4	151525.60	C08	
EM2583T-4	170255.60		LM13815
EM3115	116128.00		
EM3116T	121003.00		LM24871
EM3120T	121514.00		LM32727
EM3154T	121004.00		LM24875
EM3155T	121515.00		LM33137
EM3156T	121517.00		LM24872
EM3157T	121005.00		LM24169
EM3158T	121516.00		LM32731
EM3207T	131971.00		
EM3211T	131519.00		LM24222
EM3212T	131986.00	F09	LM32734
EM3215T	131972.00		
EM3218T	131520.00		LM24202
EM3219T	131988.00		LM32737
EM3305T	171574.60	C02	LM32733
EM3309T	171575.60	C02	LM32735
EM3311T	140470.00		LM24194
EM3311T	170142.60	C02	
EM3312T	140753.00		LM32740
EM3313T	140472.00		LM24193
EM3314T	140754.00		LM32743
EM3314T	170064.60	C02	
EM3538	103020.00	C02	
EM3545	116129.00		
EM3546	116757.00		
EM3546T	120921.00		LM32796
EM3546T-5	120122.00		
EM3546T-5	121937.00		LM24109
EM3550	116758.00		
EM3550T	121518.00		LM33122
EM3550T-5	121939.00		LM25102
EM3554	116759.00		
EM3554T	120922.00		LM33123
EM3554T-5	121940.00		LM24142
EM3555	116760.00		
EM3555T	121519.00		LM33124
EM3555T-5	121941.00		LM25103
EM3556	121520.00	F06	LM33121
EM3556T	121520.00		LM33121
EM3556T-5	121938.00		
EM3558	116761.00	F05	
EM3558T	120923.00		LM33125
EM3558T	121942.00		LM24108
EM3559-T	171624.60	C02	
EM3581T	120921.00	C01	LM32796
EM3581T	171640.60		LM24102
EM3582T	121520.00	C01	LM33121
EM3582T	171643.60		LM15856
EM3583T	116758.00	C01	
EM3583T	121518.00	C01	LM33122
EM3583T	171642.60		LM15854
EM3584T	120922.00	C01	LM33123

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EM3584T	171646.60		LM25267
EM3586T	121519.00	C01	LM33124
EM3586T	171648.60		LM15857
EM3587T	120923.00	C01	LM33125
EM3587T	171647.60		LM24127
EM3607T-5	132251.00		LM17059
EM3610T	131985.00		LM15646
EM3611T	131463.00		LM32741
EM3611T-5	132253.00		LM16384
EM3613T	131987.00		LM15649
EM3613T-5	132254.00		LM16386
EM3614T-5	132252.00		LM17062
EM3615T	131464.00		LM15650
EM3615T-5	132255.00		LM17067
EM3660T	131985.00	C01	LM15646
EM3661T	171320.60		LM60026
EM3663T	131987.00	C01	LM15649
EM3664T	131981.00	C01	LM15651
EM3665T	171322.60		LM24195
EM3667T	131980.00	C01	LM15648
EM3704T	171378.60	C02	LM60027
EM3708T	171379.60	C02	LM15883
EM3709T	140756.00		LM32804
EM3709T-5	170196.60	C02	LM16389
EM3709T-5	170197.60	C02	LM16394
EM3710T	140450.00		LM16029
EM3710T-5	141116.00		LM16391
EM3711T	140755.00		LM32808
EM3714T	140451.00		LM32809
EM3764T	171378.60		LM60027
EM3768T	171379.60		LM15883
EM3769T	170158.60		LM15878
EM3770T	170157.60		LM24209
EM3771T	170159.60		LM15861
EM3774T	170140.60		LM60036
EM3774T-5	170212.60	C02	LM17073
EM4100T	170068.60		LM15793
EM4102T	170001.60		LM15796
EM4103T	170011.60		LM15792
EM4103T-5	170118.60	C02	LM16407
EM4104T	170015.60		LM13964
EM4104T-5	170119.60	C02	LM19595
EM4106T	170033.60		LM15673
EM4106T-5	170199.60	C02	LM16403
EM4107T	170035.60		LM13960
EM4107T-5	170224.60	C02	LM16406
EM4108T	170037.60		LM60046
EM4108T-5	170228.60	C02	LM20085
EM4109T	170039.60		LM19749
EM4109T-5	170232.60	C02	LM14407
EM4110T	170019.60		LM13699
EM4110T-5	170120.60	C56	LM14396
EM4111T	170003.60		LM13696
EM4114T	170041.60		LM60052
EM4114T-5	170121.60	F14 C02	LM14411
EM4115T	170023.60		LM19753
EM4117T	170005.60		LM60048
EM4308T	170096.60		LM13918
EM4310T	170043.60		LM14808
EM4312T	170097.60		LM19754
EM4313T	170045.60		LM14810
EM4314T	170027.60		LM14809
EM4314T-5	170239.60	C02	LM18369
EM4316T	170031.60		LM14811
EM4316T-5	170244.60	C02	LM18372
EM4400T	170087.60		LM19762
EM4400T-5	170253.60	C02	LM18292
EM4402T-4	170160.60		LM13939
EM4403T	170098.60		LM13938
EM4404T	170099.60		LM60060
EM4406T-4	170371.60		LM13707
EM4407TR-4	170352.60		LM16230



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EM4409T-4	170256.60		LM13702
EM4410T-4	170369.60		LM60065
EM4411T-4	170260.60		LM13705
EM4412T-4	171580.60		LM60064
EM4413T-4	171578.60		LM13706
EM44156T-4	171315.60		LM16231
EM4416T-4	171579.60	C15	LM16229
EM44206T	171316.60		LM60072
EM7037T	121917.00		
EM7053T	825092.00		
EM7054T	825093.00		
EM7056T	825095.00		
EM7058T	825097.00		
EM7059T	825094.00		
EM7060T	825099.00		
EM7062T	825101.00		
EM7063T	825096.00		
EM7064T	825103.00		
EM7066T	825105.00		
EM7067T	825100.00		
EM7068T	825107.00		
EM7075T	121918.00		
EM7081T	825102.00		
EM7083T	825098.00		
EM7090T	825109.00		
EM7142T	825085.00		
EM7144T	825087.00		
EM7145T	825088.00		
EM7147T	825089.00		
EM7170T	825091.00		
EM7172T	825086.00		
EM7174T	825090.00		
EM74124T-4	825111.00		
EM74154T	825113.00		
EM74204T	825115.00		
EMM2333	193316.60		
EMM2334	193319.60		
EMM3559	192209.00		
EMM3611	193301.60		
EMM3613	193306.60		
EMM3615	193307.60		
EMM3709	193309.60		
EMM3710	193310.60		
EMM3711	193312.60		
EMM3714	193313.60		
EMM4103	193322.60		
EMM4104	193325.60		
EMM4110	193328.60		
EMM5700	192208.00		
EMM5700-5	192231.00		
EMM5750	192205.00		
EMM5750-5	192232.00		
EWDM3546T	121865.00	E02	
EWDM3554T	121869.00	E02	
EWDM3558T	121866.00		
EWDM3611T	132196.00		
EWDM3615T	132197.00		
EWDM3710T	140819.00		
EWDM3714T	140820.00		
FDL3501M	113256.00		LM24789
FDL3501M	M002256.00		
FDL3504M	110086.00		LM24790
FDL3504M	M009086.00		
FDL3507M	110087.00		LM24791
FDL3507M	M009087.00		
FDL3510M	110088.00	F03	LM24792
FDL3510TM	121569.00		LM24793
FDL3510TM	M009089.00		
FDL3514M	110089.00	C39	LM24794
FDL3514TM	113938.00	C39	LM24795
FDL3514TM	M009089.00		
FDL3516TM	110090.00		

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FDL3610M	131542.00	F09	LM24801
FDL3610TM	131542.00		LM24801
FDL3611M	110090.00	B22	
FDL3611TM	131541.00		LM24796
FDL3612TM	131543.00		LM24798
FDL3619TM	131542.00		LM24801
FDL3712TM	140414.00		LM24805
FDL3731M	131543.00	B23	LM24798
FDL3732M	140707.00	F12	LM24799
FDL3733TM	140130.00		
FDL3733TM	140707.00		LM24799
FDL3737TM	140706.00		
FM2513T	G150065.60	C04	
FM2515T	G150006.60	C04	
FM2531T	G150009.60	C04	
FM2535T	G150013.60	C04	
FM2539T	G150017.60	C04	
FM2543T	G150021.60	C04	
FM3211T	G131240.00		
FM3218T	G131239.00		
FM3311T	G140609.00		
FM3313T	G150144.60	C04	
FM3611T	G131237.00		
FM3615T	G131236.00		
FM3710T	G140604.00		
FM3714T	G150140.60	C04	
GC24302	M1125084.00	B36 C32 S08	
GC24306	M1125083.00	B36 C32 S08	
GC24310	M1125081.00	B36 C32 S08	
GC25010	M1145039.00	B36 C32 S08	
GC25015	M1145082.00	B36 C32 S08	
GC25020	M1145038.00	B36 C32 S08	
GCP24004	M1145029.00	C32 E02	
GCP24114	M1125127.00	E02	
GCP24122	M1125128.00	E02	
GCP24124	M1125129.00	E02	
GCP24134	M1125130.00	E02	
GCP25052	M1145032.00	C32 E02	
GCP25054	M1145033.00	C32 E02	
GCP25056	M1145034.00	C32 E02	
GCP25060	M1145035.00	C32 E02	
GCP3305	096007.00	C32 E02	
GLP3330	096049.00		
GLP3332	096050.00		
GLP3336	096051.00		
GMP3330	096013.00		
GMP3332	096014.00		
GMP3336	096015.00		
GMP3338	096016.00		
GP233003	M1115019.00	B36 S08	
GP233007	M1115020.00	B36 S08	
GP7402	M1135038.00	B36 S08 S11	
GP7403	M1135069.00	B36 S08 S11	
GP7405	M1135042.00	B36 S08 S11	
GP7407	M1135043.00	B36 S08 S11	
GP7425	M1135062.00	B36 S08 S11	
GP7427	M1135063.00	B36 S08 S11	
GPP12503	M1125004.00		
GPP12545	M1125072.00		
GPP12547	M1125070.00		
GPP231108	M1115001.00		
GPP231109	M1115002.00		
GPP232110	M1115000.00		
GPP233111	M1115028.00		
GPP233112	M1115027.00		
GPP233120	M1125048.00		
GPP233121	M1125036.00		
GPP233140	M1115026.00	B36	
GPP7451	M1135116.00		
GPP7452	M1135112.00		
GPP7453	M1135111.00		
GPP7454	M1135114.00		

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Competitor Catalog #	LEESON Catalog #	Exception Code(s) To LEESON	Lincoln Catalog #
GPP7455	M1135110.00		
GPP7456	M1135108.00		
GPP7457	M1135117.00		
GPP7458	M1135107.00		
GPP7459	M1135106.00		
GPP7460	M1135109.00		
GPP7461	M1135115.00		
GPP7470	M1135150.00		
GPP7471	M1135149.00		
GPP7472	M1135148.00		
GPP7473	M1135147.00		
GPP7474	M1135146.00		
GPP7475	M1135145.00		
GPP7476	M1135143.00		
GPP7477	M1135141.00		
GPP7478	M1135140.00		
GPP7479	M1135139.00		
GSL3509M	111330.00		
HM3108	100029.00	C25	LM24098
HM3112	100030.00		LM24099
HM3116	115827.00		
HM3154	115825.00		
HM3154A	111309.00	F03	
HM3157	115826.00		
HM3161A	116595.00	P03	
HM3218TA	G130565.00		
IDGM2500	M1145131.00	B36	
IDGM2501	M1145130.00	B36	
IDGM2503	M1145129.00	B36	
IDGM2506	M1145128.00	B36	
IDGM2508	M1145127.00	B36	
IDGMP2500	096070.00		
IDGMP2501	096069.00		
IDGMP2503	096068.00		
IDGMP2505	096067.00		
IDM2333T	810066.00	E01	LM06135
IDM2334T	810007.00	E01	
IDM3581T	810548.00	E01	LM26359
IDM3584T	810547.00	E01 F07	LM26233
IDM3587T	810546.00	E01	LM06113
IDM3661T	811320.00	E01	LM06119
IDM3665T	811322.00	E01	
IDM3770T	810157.00	E01	LM06131
IDM3774T	810140.00	E01	
IDM4102T	810001.00		
IDM4103T	810011.00		
IDM4104T	810015.00		
IDM4110T	810019.00		
IDM4115T	810023.00		
IDM4117T	810005.00		
IDM4312T	810097.00		
IDM4314T	810027.00		
IDM4316T	810031.00		
IDM4400T-4	810087.00		
IDM4404T	810099.00		
IDM4406T-4	811371.00		LM03564
IDM4407T-4	810503.00		LM3596
IDM4409T-4	811367.00		
IDM4410T-4	811369.00		LM03516
IDNM2333T	810066.00		LM06135
IDNM3581T	810548.00		LM26359
IDNM3584T	810547.00	F07	LM26233
IDNM3587T	810546.00		LM06113
IDNM3661T	811320.00		LM06119
IDNM3665T	811322.00		
IDNM3770T	810157.00	E01	LM06131
IM3540A	111304.00		
IR3507M	114932.00		
IR3510M	114933.00	C25	
JL1303A	100207.00		
JL1303A	101527.00		
JL1306A	100208.00		

Competitor Catalog #	LEESON Catalog #	Exception Code(s) To LEESON	Lincoln Catalog #
JL1306A	101528.00		
JL1307A	100723.00		
JL1309A	100723.00		
JL1309A	101529.00		
JL1313A	110292.00		
JL1313A	113687.00		
JL1317A	110293.00		
JL1323A	110286.00		
JL225A	100207.00	H01	
JL325A	100207.00		
JL3503A	113955.00		
JL3506A	113956.00		
JL3509A	113639.00		
JL3513A	113640.00		
JL3515A	113641.00		
JL425A	100208.00		
JL5003A	116188.00		
JL5006A	116186.00		
JL5009A	116185.00		
JL5030	116183.00		
JL5031	116181.00		
JL525A	100723.00		
JL625A	110292.00		
JL725A	110293.00		
JL825A	110286.00		
JM225	102197.00		
JM3006	102197.00		
JM3107	102198.00		
JM3111	101637.00		
JM3115	101638.00		
JM3120	113891.00		
JM3155	113892.00		
JM3158	113893.00		
JM3460	114931.00		
JM3463	114208.00		
JM3545	114207.00		
JM3550	114206.00		
JM3555	114205.00		
JM3559	114204.00		
JM625	113891.00		
JM7013	116184.00	P01	
JM7018	116182.00	P01	
JM7071	116180.00	P01	
JML1406T	131640.00		
JML1408T	131604.00		
JML1409T	131641.00		
JML1508T	131605.00	F11	
JML1509T	140642.00		
JML1510T	140665.00		
JML1511T	140644.00	C25	
JML1512T	140666.00		
JMM2333T	151568.60		
JMM2333T	G151568.60	C56	
JMM2334T	151570.60		
JMM2334T	G151570.60	C56	
JMM2394T	151567.60		
JMM2394T	G151567.60	C56	
JMM2513T	151361.60	C02	
JMM2513T	G151361.60		
JMM2514T	151381.60	C02	
JMM2514T	G151381.60	C56	
JMM2515T	151362.60	C02	
JMM2515T	G151362.60	C56	
JMM2516T	151382.60	C02	
JMM2516T	G151382.60	C56	
JMM2531T	801028.00	C02	
JMM2531T	G801028.00	C56	
JMM2534T	801040.00	C02	
JMM2534T	G801040.00	C56	
JMM2535T	801029.00	C02	
JMM2535T	G801029.00	C56	
JMM2538T	801041.00	C02	



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JMM2538T	G801041.00	C56	
JMM2539T	801030.00	C02	
JMM2539T	G801030.00	C56	
JMM2542T	801042.00	C02	
JMM2542T	G801042.00	C56	
JMM3116T	121850.00		
JMM3116T	G121850.00	C56	
JMM3154T	121851.00		
JMM3154T	G121851.00	C56	
JMM3155T	121853.00		
JMM3155T	G121853.00	C56	
JMM3157T	121852.00		
JMM3157T	G121852.00	C56	
JMM3158T	121854.00		
JMM3158T	G121854.00	C56	
JMM3211T	131562.00		
JMM3211T	G131562.00	C56	
JMM3212T	131574.00		
JMM3212T	G131574.00	C56	
JMM3218T	131563.00		
JMM3218T	G131563.00	C56	
JMM3219T	131576.00		
JMM3219T	G131576.00	C56	
JMM3311T	140618.00		
JMM3311T	G140618.00	C56	
JMM3312T	131577.00		
JMM3312T	G141121.00	C56	
JMM3313T	140619.00		
JMM3313T	G140619.00	C56	
JMM3314T	151380.60		
JMM3314T	G151380.60	C56	
JMM3546T	121855.00		
JMM3546T	G121855.00	C56	
JMM3550T	121858.00		
JMM3550T	G121858.00	C56	
JMM3554T	121856.00		
JMM3554T	G121856.00	C56	
JMM3555T	121859.00		
JMM3555T	G121859.00	C56	
JMM3558T	121857.00		
JMM3558T	G121857.00	C56	
JMM3559T	121860.00		
JMM3559T	G121860.00	C56	
JMM3611T	131579.00		
JMM3611T	G131579.00	C56	
JMM3613T	131580.00		
JMM3613T	G131580.00	C56	
JMM3615T	131581.00		
JMM3615T	G131581.00	C56	
JMM3616T	131582.00		
JMM3616T	G131582.00	C56	
JMM3709T	132027.00		
JMM3709T	G132027.00	C56	
JMM3710T	140622.00		
JMM3710T	G140622.00	C56	
JMM3711T	131583.00		
JMM3711T	G141122.00	C56	
JMM3713T	140764.00		
JMM3713T	G140764.00	C56	
JMM3714T	140623.00		
JMM3714T	G140623.00	C56	
JMM4103T	151418.60		
JMM4103T	G151418.60	C56	
JMM4104T	151422.60		
JMM4104T	G151422.60	C56	
JMM4106T	151569.60		
JMM4106T	G151569.60	C56	
JMM4107T	151417.60		
JMM4107T	G151417.60	C56	
JMM4108T	151420.60		
JMM4108T	G151420.60	C56	
JMM4109T	151424.60		

Competitor Catalog #	LEESON Catalog #	Exception Code(s) To LEESON	Lincoln Catalog #
JMM4109T	G151424.60	C56 F28	
JMM4110T	151426.60		
JMM4110T	G151426.60	C56	
JMWDM3546T	121579.00	E02	
JMWDM3546T	G121579.00	E02	
JMWDM3550T	121580.00		
JMWDM3554T	121581.00	E02	
JMWDM3554T	G121581.00	E02	
JMWDM3555T	121582.00		
JMWDM3555T	G121582.00		
JMWDM3558T	121583.00		
JMWDM3558T	G121583.00		
JMWDM3559T	121584.00		
JMWDM3599T	G121584.00		
JMWDM3611T	131967.00		
JMWDM3611T	G131967.00	C15	
JMWDM3613T	131968.00		
JMWDM3613T	G131968.00	C15	
JMWDM3615T	131969.00		
JMWDM3615T	G131969.00		
JMWDM3616T	131970.00	C39	
JMWDM3616T	G131970.00		
JMWDM3710T	140733.00		
JMWDM3710T	G140733.00		
JMWDM3711T	140734.00		
JMWDM3711T	G140734.00		
JMWDM3713T	140736.00	C39	
JMWDM3713T	G140736.00	C15	
JMWDM3714T	140735.00	C39	
JMWDM3714T	G140735.00		
JMWDM3550T	G121580.00	E02	
JPL1409T	131881.00		
JPL1509T	140646.00		
JPL1511T	140647.00	C25	
JPM2333T	G151747.60		
JPM2334T	G151749.60		
JPM2513T	801051.00		
JPM2513T	G801051.00	C56	
JPM2514T	801056.00		
JPM2514T	G801056.00	C56	
JPM2515T	801052.00		
JPM2515T	G801052.00	C56	
JPM2516T	801057.00		
JPM2516T	G801057.00	C56	
JPM2531T	801053.00		
JPM2531T	G801053.00	C56	
JPM2534T	801058.00	C02	
JPM2534T	G801058.00	C56	
JPM2535T	801054.00	C02	
JPM2535T	G801054.00	C56	
JPM2538T	801059.00	C02	
JPM2538T	G801059.00	C56	
JPM2539T	801055.00	C02	
JPM2539T	G801055.00	C56	
JPM2542T	801060.00	C02	
JPM2542T	G801060.00	C56	
JPM3154T	121846.00		
JPM3154T	G121846.00	C56	
JPM3157T	121847.00		
JPM3157T	G121847.00	C56	
JPM3158T	121849.00		
JPM3158T	G121849.00		
JPM3211T	131882.00		
JPM3211T	G131882.00	C56	
JPM3212T	131884.00		
JPM3212T	G131884.00	C56	
JPM3218T	131883.00		
JPM3218T	G131883.00		
JPM3219T	131885.00		
JPM3219T	G131885.00	C56	
JPM3311T	140667.00		

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JPM3311T	G140667.00	C56	
JPM3312T	140655.00		
JPM3312T	G140655.00	C56	
JPM3313T	140668.00		
JPM3313T	G140668.00	C56	
JPM3314T	140656.00		
JPM3314T	G140656.00	C56	
JPM3554T	G151736.60	C56	
JPM3558T	G151737.60		
JPM3610T	G151738.60		
JPM3611T	G151739.60		
JPM3613T	G151740.60		
JPM3615T	G151741.60		
JPM3709T	G151742.60		
JPM3710T	G151743.60		
JPM3711T	G151744.60		
JPM3713T	G151746.60		
JPM3714T	G151745.60		
JPM4103T	G151751.60		
JPM4104T	G151753.60		
JPM4106T	G151748.60		
JPM4107T	G151750.60		
JPM4108T	G151752.60		
JPM4109T	G151754.60		
JPM4110T	G151755.60		
JPM4114T	G151756.60		
JSL1303A	MST1052.00		
JSL1306A	MST1072.00		
JSL1309A	MST1102.00		
JSL1313A	MST1152.00		
JSL1317A	MST1202.00		
JSL325A	MST1052.00		
JSL425A	MST1072.00		
JSL525A	MST1102.00		
JSL625A	MST1152.00		
JSL725A	MST1202.00		
K3403	102866.00	F02	
K3405	102870.00	F02	LM24736
KBL3406	114165.00		
KBL3409	111950.00		
KBM3458	114158.00		
KENM3534	102696.00	E01 F02	
KL1203	100023.00	K89	LM24569
KL1205	100354.00	K89	LM24688
KL1205A	100355.00	K89	
KL3403	102866.00		
KL3405	102870.00		LM24736
KM3003	103014.00	F02	
KM3006	100375.00	F02	LM24909
KM3454	101767.00	F02	LM24964
KM3454-50	102184.00		
KM3457	110446.00	E01	
KNM3454	101648.00	F02	
KNM3534	102863.00	F02	
L1200	102012.00	E02	
L1201	102013.00	E02	
L1203	101423.00	P02	LM24458
L1203M	101423.00		LM24458
L1204	102015.00	E02	
L1205	100336.00	F02	LM24467
L1206	100116.00	P01	
L1206-50	110394.00	F03	
L1206M	100588.00	F02	LM24550
L1207	110001.00	F03	LM24540
L1208	100184.00		LM24465
L1208-50	113901.00	F03	
L1209	100338.00		
L1209-50	110395.00	F03	
L1209M	100004.00	F02	LM24553
L1300	114617.00	E02	LM24545
L1301	100006.00		LM24570
L1301M	100588.00		LM24550

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L1302	110001.00		LM24540
L1303	100337.00	F02	
L1304	100007.00	F02	LM24551
L1304-50	110395.00	F03	
L1304A	100002.00	F02	LM24552
L1304M	100004.00	F02	LM24553
L1305	110002.00	F03	LM24542
L1306	100340.00		LM24674
L1306-50	113902.00		
L1306A	100053.00	P02	
L1307	100008.00	F02	LM24502
L1307-50	110396.00		
L1307A	100003.00	F02	LM24503
L1307M	100005.00	F02	
L1308	110003.00	F02	LM24543
L1309	110360.00		LM24525
L1309-50	113903.00		
L1309A	110097.00	P02	
L1310	110004.00		LM24580
L1310M	110167.00	F03	LM24582
L1313	110361.00	F03	LM24524
L1313	113631.00	F03	
L1313-50	113904.00		
L1313A	110110.00	F03 P02	
L1313T	120107.00		LM24676
L1317	110363.00	F03	LM24624
L1317-50	113905.00		
L1317A	110362.00	P02 F03	
L1318	110004.00	F03	LM24580
L1318-50	110397.00		
L1318M	110167.00	C39 F03	LM24582
L1318T	120044.00		LM24675
L1318TM	120003.00	C39	
L1319	110005.00		LM24583
L1319-50	110398.00		
L1319M	110006.00		LM24585
L1319T	120004.00		
L1319T	120042.00		LM24687
L1320T	120106.00		LM24806
L1321T	120001.00	P01	
L1321TM	120004.00		
L1322T	120067.00		LM24677
L1322TM	120879.00		LM24685
L1401	120044.00	B22	LM24675
L1401M	120003.00	B22	
L1403	120001.00	B22	
L1403M	120004.00	B22	
L1405	131515.00	F08	LM24678
L1405T	131515.00		LM24678
L1405T-50	131553.00		
L1406T	131636.00		LM24679
L1407	120043.00	B22 E02	
L1408T	131534.00		LM24680
L1408T-50	131554.00		
L1408TM	131561.00		
L1408TM	131851.00		
L1409T	131616.00		LM24681
L1410T	131537.00		LM24682
L1410TM	131622.00		
L1430T	131537.00		LM24682
L1430TM	131622.00		
L1502	131515.00	B23	LM24678
L1505	131534.00	B23	LM24680
L1508T-50	131555.00		
L1509T	140680.00		
L1510T	140155.00		LM24683
L1511T	140681.00		
L1512T	140311.00		LM24684
L206	100006.00		LM24570
L3351	170066.60		LM24208
L3353	170097.60		LM19754
L3355	092116.00		



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L3356	170097.60		LM19754
L3400	102012.00		
L3401	102013.00		
L3403	102014.00		LM24606
L3403M	101446.00		
L3404	102015.00		
L3405	102016.00		LM24705
L3406	100955.00		
L3406M	102018.00		
L3407	102019.00		
L3408	102020.00		
L3409	100956.00		
L3500	114617.00		LM24545
L3501	102931.00		LM24597
L3501-50	110423.00	C25	
L3501M	102933.00		LM24602
L3502	110009.00		LM24546
L3503	102905.00		LM24706
L3503-50	113917.00		
L3504	102906.00		LM24627
L3504-50	110064.00		
L3504A	102908.00		LM24603
L3504M	102909.00		LM24604
L3505	110011.00		LM24496
L3506	110276.00		LM24707
L3506-50	113918.00		
L3507	110013.00		LM24607
L3507-50	110065.00		
L3507A	110017.00		LM24608
L3507M	110022.00		
L3508	110400.00		LM24497
L3508T	110400.00	F05	LM24497
L3509	110059.00	F03	LM24708
L3509-50	113919.00		
L3509M	110142.00	F03	LM24745
L3510	110209.00	F03	LM24610
L3510-50	113911.00	F05	
L3510A	110018.00	F03	LM24611
L3510M	110023.00	F03	LM24612
L3510T	120025.00		LM24709
L3510TM	120008.00		
L3513	110094.00	F03	LM24531
L3513-50	113920.00	C25 F05	
L3513M	110109.00	F03	LM24532
L3513T	120130.00		LM24710
L3514	110253.00		LM24513
L3514-50	110424.00	F05	
L3514A	110019.00		LM24514
L3514M	113333.00		LM24515
L3514T	120026.00		LM24711
L3514TM	120009.00		LM24746
L3515	110352.00		LM24534
L3515-50	113928.00	F05	
L3515M	110402.00		LM24534
L3515T	120036.00		LM24712
L3516T	121507.00		
L3516TM	110090.00		
L3516TM	120867.00	C25 F06	
L3601	120025.00	B22	LM24709
L3603	120026.00	B22	LM24711
L3605	131509.00	F08	LM24713
L3605M	131509.00	F08 P03	LM24713
L3605T	131509.00		LM24713
L3605T-50	131556.00		
L3605TM	131509.00	P03	LM24713
L3606	131637.00	F08	LM24715
L3606T	131637.00		LM24715
L3607	120043.00	B22	
L3608T	131549.00		LM24717
L3608TM	132042.00	C39	
L3609T	131533.00	C10	LM24716
L3609T-50	131557.00		

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L3609TM	131855.00	C39	
L3612TM	131856.00	C39	
L3613T	131526.00		
L3703	140747.00	C39 F12	
L3705	131855.00	B23	
L3708	140203.00	F12 P02	
L3708T	140203.00	F12 P02	
L3708T-50	140475.00	P02	
L3708TM	140203.00	F12	
L3709T	140684.00		LM24719
L3710T	140120.00		LM24720
L3711T	140685.00		LM24721
L3712T	140581.00		LM24722
L5001A	111074.00	E01	
L5004A	111084.00	F05	
L5007A	110934.00	F05	
L5023A	110961.00	F05	
M1504T	120942.00		
M1506T	131473.00		
M1507T	131472.00	C11	
M1508T	140446.00		
M1554T	120944.00		
M1555T	120947.00	C11	
M1556T	120946.00		
M1557T	131468.00	C11	
M1558T	131469.00		
M1559T	140443.00		
M1704T	120943.00		
M1706T	131471.00		
M1707T	131470.00		
M1708T	140445.00		
M1754T	120945.00	C11 C25	
M1755T	120941.00	C11	
M1756T	120940.00		
M1757T	131474.00	C11	
M1758T	131475.00		
M1759T	140447.00	C11	
M1760T	140448.00		
M2237	G140578.00	B24	
M2238	G150140.60	B24	
M2275	G140126.00	B24	
M2276T	G150122.60		
M2280T	151355.22		
M2280T	G151355.22		LM32803
M2332	G150123.60	B25	
M2332T	G150123.60		
M2333	G150066.60	B25	
M2333T	G150066.60		
M2334	G150007.60	B25	
M2334T	G150007.60	C52	
M2334T-12	G150007.60		
M2393	G140686.00	B24	
M2394	G151317.60	B24	
M2394T	G150062.60		
M2395T	150261.22		
M2395T	G150261.22		
M2401T	151356.22		
M2401T	G151356.22		LM32807
M2402T	150282.22		
M2402T	G150282.22		
M2504T	151355.22	C02 E02	
M2505	G140471.00	B24	
M2506T	G150145.60	C02	
M2508T	151356.22	C02 E02	
M2510	G140490.00	B24	
M2511T	G150146.60	C02	
M2513T	G140579.00		
M2514T	G150032.60	C02	
M2515T	G150006.60	C02 C52	
M2515T-12	G150006.60	C02	
M2516T	G150034.60	C02	
M2523	G140579.00	B25	

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M2524T	G150067.60	C02	
M2527	G150006.60	B25	
M2528T	G150000.60	C02	
M2531	G150009.60	B26	
M2531T	G150009.60	C02	
M2531T-12	G150009.60	C02	
M2532T	G150002.60	C02	
M2534T	G150036.60	C02	
M2535	G150013.60	B26	
M2535T	G150013.60	C02 C52	
M2535T-12	G150013.60	C02	
M2536T	G150004.60	C02	
M2538T	G150038.60	C02	
M2539T	G150017.60	C02 C52	
M2539T-12	G150017.60	C02	
M2540T	G150147.60	C02	
M2542T	G150040.60	C02	
M2543T	G150021.60	C02 C52	
M2543T-12	G150021.60	C02	
M2544T	G150148.60	C02	
M2546T	G150042.60	C02	
M2547T	G150025.60	C02 C52	
M2547T-12	G150025.60	C02	
M2548T	G150149.60	C02	
M2549T	G150044.60	C02	
M2550T	G150151.60	C02	
M2551T	G150029.60	C02 C52	
M2551T-12	G150029.60	C02	
M2552T	G150150.60	C02	
M2554T-4	G150154.60	C02 C47	
M2555T	G150152.60	C02 C52	
M2555T-12	G150152.60	C02	
M2556T-4	G151449.60	C02	
M2557T-4	170259.60	C15	LM13816
M2558T-4	G151522.60	F19	
M2559T-4	G150155.60	C02 C47	
M2560T-4	171576.60	C15	LM13818
M2562T-4	171573.60	C15	LM13819
M2563T-4	G151523.60		
M2564T-4	171577.60	C15	LM16239
M2566T-4	151524.60		
M2566T-4	G151524.60		LM13823
M2569T-4	151525.60		
M2569T-4	G151525.60		
M2572T-4	151518.60	F19	
M2583T	170255.60	C15	LM13815
M3003	100027.00	F02	LM24866
M3006	101447.00		LM24867
M3007	100446.00		
M3009	110425.00	H03	LM24868
M3010	100961.00	E02	LM24932
M3012	100960.00	E02	
M3101	110425.00	H03	LM24868
M3104	100028.00		LM24152
M3105	110425.00		LM24868
M3107	101448.00		LM24869
M3108	100029.00		LM24098
M3108A	100796.00	B32	
M3109	110027.00		LM24146
M3111	101449.00		LM24870
M3112	100030.00		LM24099
M3112A	100908.00	B32	
M3115	110426.00		LM24155
M3116	110029.00		LM24111
M3116A	111311.00	B32	
M3116T	G120010.00		
M3120	110429.00		LM24874
M3120T	G120103.00		
M3153	110028.00		LM24162
M3154	110430.00		LM24117
M3154	111309.00		
M3154	115825.00		

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M3154A	111309.00		
M3154T	G120011.00		
M3155	113292.00		LM24877
M3155T	G120076.00		
M3156	113933.00	E02	LM24159
M3156T	G120089.00		
M3157	111310.00		
M3157	113025.00		LM24106
M3157	115826.00		
M3157T	G120012.00		
M3157TA	111310.00	F03	
M3158	113293.00		LM24878
M3158T	G120077.00		
M3159	114930.00	E02	
M3161T	116595.00	F05	
M3161TA	116595.00	P03	
M3203	G120010.00	B22	
M3206	G120011.00	B22	
M3207T	G130010.00		
M3208	G120076.00	B22	
M3209	G120012.00	B22	
M3210	G120077.00	B22	
M3211T	G130000.00		
M3211T/36	G130000.00		
M3211TA	G131338.00		
M3212T	G130282.00		
M3215T	G130012.00		
M3216T	131478.00	E02	
M3218T	G130004.00		
M3218T-8	131500.00		
M3218TA	G130565.00		
M3219T	G130284.00		
M3220T	131479.00	E02	
M3303T	140516.00	E02	
M3304	G131338.00	B23	
M3305T	G140550.00		
M3306T	140516.00	E02	
M3306T	G151809.22		LM32688
M3307	G130282.00	B23	
M3308	G130565.00	B23	
M3309T	G140122.00		
M3310	G130284.00	B23	
M3311T	G140471.00		
M3311T-8	131547.00		
M3312T	G140682.00		
M3313T	G140490.00		
M3313T-8	140004.00		
M3314T	G140683.00		
M3454	101646.00		LM24929
M3457	102684.00		
M3457	102864.00		LM24736
M3458	101647.00		LM24930
M3460	100905.00		
M3461	100961.00		LM24932
M3463	100960.00		
M3531	110441.00	H03	LM24931
M3532	114618.00	H01	LM24291
M3534	101079.00		LM24107
M3535	110441.00		LM24931
M3536	114618.00	H01	LM24291
M3537	101448.00	E03	LM24869
M3537-5	110714.00	E01	LM25094
M3538	100913.00		LM24073
M3538-5	101051.00	E01 F02	
M3538-5	110199.00	E01	LM24154
M3538-50	102693.00		
M3539	110353.00		LM24105
M3541	110313.00		LM24133
M3541-5	110354.00		LM24110
M3541-50	114306.00		
M3542	110034.00		LM24075
M3542-5	110178.00		LM25095



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M3542-50	114307.00	C39	
M3543	110275.00	F03	LM24136
M3543	121009.00		LM24103
M3543-5	111394.00		
M3543T	121009.00		LM24103
M3543T-5	111394.00	F03	
M3545	110145.00		LM24094
M3545-5	110715.00		LM25096
M3545-50	114308.00		
M3546	110035.00		LM24078
M3546-5	110206.00		LM25097
M3546T	G120014.00		
M3546T-50	121096.00		
M3546T-8	120047.00		
M3550	110745.00		LM24144
M3550T	G120086.00		
M3550T-5	120170.00	C08	
M3550T-50	121097.00		
M3554	110444.00		LM24118
M3554T	G120015.00	C25	
M3554T-5	120021.00	C08	
M3554T-50	121093.00		
M3554T-8	120032.00		
M3555	111916.00	F03	LM24347
M3555T	G120088.00		
M3555T-50	121094.00		
M3556	113933.00	F03	LM24159
M3556T	G120087.00		
M3556T-5	120167.00	C08	
M3557	114930.00		
M3558	113026.00		LM24097
M3558T	G120016.00		
M3558T-50	121095.00		
M3558T-8	120034.00		
M3559	114614.00	C11	
M3559T	G120185.00		
M3560	114618.00	F03	LM24291
M3581T	G120014.00	C01 C25	
M3582T	G120087.00	C01 C25	
M3583T	G120086.00	C01 C25	
M3584T	G120015.00	C01 C25	
M3586T	G120088.00	C01 C25	
M3587T	G120016.00	C01 C25	
M3600	114618.00	B22	LM24291
M3601	121009.00	B22	LM24103
M3602	121199.00	C25 F22	LM24276
M3604	G120087.00	B22	
M3605	G120086.00	B22	
M3606	G120015.00	B22	
M3607	116591.00	B22	
M3607T	G130015.00		
M3607T	G131479.00		LM32798
M3607T-5	131548.00	C08	
M3608	G120088.00	B22	
M3609	G120016.00	B22	
M3610	G130099.00	F08	
M3610T	G130099.00		
M3610T-50	131480.00		
M3611	G130008.00	F08	
M3611T	G130008.00		
M3611T/36	G130008.00		
M3611T-50	131459.00		
M3611T-8	131465.00		
M3613T	G130101.00		
M3613T-50	131481.00		
M3614T	G130016.00		
M3615T	G130027.00		
M3615T-50	131454.00		
M3615T-8	131466.00		
M3616T	G131082.00		
M3617T	131478.00		
M3617T	G131478.00		LM32662

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M3618T	131479.00		
M3660T	G151563.60		
M3661T	G151320.60		
M3663T	G150299.60		
M3664T	G130016.00	C01	
M3665T	G151322.60		
M3667T	G130015.00	C01	
M3701	131479.00	B23	
M3702T	140516.00		
M3702T	G140516.00		LM32799
M3703	G130008.00	B23	
M3705T	140518.00		
M3706	G130101.00	F09	
M3707	G130027.00	F09	
M3708T	G140126.00		
M3709	G130103.00	F12	
M3709T	G130103.00		
M3710T	G140578.00		
M3710T-5	140593.00		
M3710T-8	131467.00		
M3711T	G140686.00		
M3712	G130016.00	B23	
M3713T	G140687.00		
M3714T	G140489.00		
M3714T-8	140013.00		
M3768T	G140126.00	C01	
M3769T	G150158.60		
M3770T	G150157.60		
M3771T	G150159.60		
M3774T	G150140.60		
M4100T	G150068.60		
M4102T	G150001.60		
M4103	G150011.60	B26	
M4103T	G150011.60	C52	
M4103T-12	G150011.60		
M4104	G150015.60	B26	
M4104T	G150015.60	C52	
M4104T-12	G150015.60		
M4106	G150033.60	B25	
M4106T	G150033.60		
M4107	G150035.60	B26	
M4107T	G150035.60		
M4108T	G150037.60		
M4109T	G150039.60		
M4110T	G150019.60	C52	
M4110T-12	G150019.60		
M4111T	G150003.60		
M4112T	150263.22		
M4112T	G150263.22		
M4114T	G150041.60		
M4115T	G150023.60	C52	
M4115T-12	G150023.60		
M4116T	150265.22		
M4117T	G150005.60		
M4118T	G151318.60		
M4307	G150019.60	B27	
M4308T	G150096.60		
M4310T	G150043.60		
M4311	G150023.60	B27	
M4312T	G150097.60		
M4313T	G150045.60		
M4314T	G150027.60	C52	
M4314T-12	G150027.60		
M4316T	G150031.60	C52	
M4316T-12	G150031.60		
M4400T	G150087.60	C52	
M4400T-12	G150087.60		
M4402T-4	G150160.60		
M4403T	G150098.60		
M4404T	G150099.60		
M4406T-4	G151371.60		
M4407T-4	G150352.60		

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M4408T-4	151516.60	F25	
M4409T	G151367.60		
M4410T-4	G151369.60		
M4411T-4	G151370.60		
M4412T-4	G151368.60		
M44156T-4	171315.60	C15	LM16231
M44206T-4	171316.60	C15	LM60072
M44304T-4	151529.60		
M44304T-4	G151529.60		LM17953
M44354T	G151530.60		LM13720
M44354T-4	151530.60		
M7002A	111932.00	E01	
M7003A	111940.00	E01 F05	
M7005A	111934.00	E01	
M7006A	111929.00	E01	
M7007A	111938.00	F05	
M7009A	111937.00		
M7010A	111923.00		
M7013	111942.00		
M7014	111922.00	F05	
M7014T	111922.00	F05	
M7018T	121914.00		
M7018T	G120489.00		
M7019	G120490.00	B22	
M7023	G120391.00	B22	
M7026	G120387.00	B22	
M7027	G158362.00	B23	
M7030	G158366.00	B23	
M7034T	121915.00		
M7034T	G120490.00		
M7037T	G120391.00		
M7044T	G158366.00	C02	
M7045T	G158158.00	C02	
M7047T	G158157.00	C02	
M7053T	G158000.00		
M7054T	G158001.00		
M7056T	G158010.00		
M7058T	G825047.00		
M7059T	G825039.00		
M7060T	G825041.00		
M7062T	G825043.00		
M7063T	G825046.00		
M7064T	G825045.00		
M7066T	G825002.00		
M7067T	G825042.00		
M7068T	G825005.00		
M7071T	121916.00		
M7071T	G120491.00		
M7072T	G158319.00	C02	
M7074T	G158159.00	C02	
M7075T	G120387.00		
M7081T	G825044.00		
M7083T	G825040.00		
M7090T	G825008.00		
M7142T	G158362.00		
M7144T	G158366.00		
M7147T	G158157.00		
M7170T	G158140.00		
M7174T	G158159.00		
M74124T-4	G825011.00		
M74154T-4	G825014.00		
M74204T-4	G825017.00	F19	
M74254T-4	825020.99	F25	
MM2333	193131.60		
MM2334	193141.60		
MM3454	192010.00	C39	
MM3457	192020.00	C39	
MM3458	192021.00	C39	
MM3460	192030.00	C39	
MM3461	192031.00	C39	
MM3463	192040.00	C39	
MM3542	192041.00	C39	

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MM3545	192050.00	C39	
MM3546	192051.00	C39	
MM3550	192060.00	C39	
MM3554	192061.00		
MM3555	192070.00		
MM3558	192071.00		
MM3559	192080.00		
MM3611	193081.60	C02	
MM3613	193100.60	C02	
MM3615	193101.60	C02	
MM3709	193110.60	C02	
MM3710	193111.60	C02	
MM3711	193120.60	C02	
MM3714	193121.60	C02	
MM4103	193151.60		
MM4104	193161.60		
MM4110	193171.60		
MM5100	192010.00		
MM5100-5	192088.00		
MM5150	192011.00		
MM5150-5	192089.00		
MM5200	192020.00		
MM5200-5	192097.00		
MM5250	192021.00		
MM5250-5	192098.00		
MM5300	192030.00		
MM5300-5	192106.00		
MM5350	192031.00		
MM5350-5	192107.00		
MM5400	192040.00		
MM5400-5	192115.00		
MM5450	192041.00		
MM5450-5	192116.00		
MM5500	192050.00		
MM5500-5	192124.00		
MM5550	192051.00		
MM5550-5	192125.00		
MM5600	192060.00		
MM5600-5	192133.00		
MM5650	192061.00		
MM5650	192202.00		
MM5650-5	192134.00		
MM5650-5	192230.00		
MM5650D	192203.00		
MM5700	192070.00		
MM5700-5	192142.00		
MM5750	192071.00		
MM5750-5	192143.00		
MVM2613D	193336.60		
MVM3457D	192024.00		
MVM3458C	192028.00		
MVM3458D	192025.00		
MVM3460C	192037.00		
MVM3460D	192034.00		
MVM3461C	192038.00		
MVM3461D	192035.00		
MVM3463C	192047.00		
MVM3463D	192044.00		
MVM3542C	192048.00		
MVM3542D	192045.00		
MVM3545C	192057.00		
MVM3545D	192054.00		
MVM3546C	192058.00		
MVM3546D	192055.00		
MVM3550C	192067.00		
MVM3550D	192064.00		
MVM3554C	192068.00		
MVM3554D	192065.00		
MVM3555C	192077.00		
MVM3555D	192074.00		
MVM3558C	192078.00		
MVM3558D	192075.00		



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MVM3559C	192087.00		
MVM3559C	192214.00		
MVM3559D	192084.00		
MVM3559D	192211.00		
MVM3611C	193088.60		
MVM3611C	193359.60		
MVM3611D	193334.60		
MVM3613C	193107.60		
MVM3613D	193104.60	C02	
MVM3615D	193105.60	C02	
MVM3615D	193337.60		
MVM3709D	193342.60		
MVM3710D	193115.60	C02	
MVM3710D	193343.60		
MVM3711D	193124.60	C02	
MVM3711D	193345.60		
MVM3714D	193125.60	C02	
MVM5100C	192017.00		
MVM5100C-5	192088.00	K10	
MVM5100D	192014.00		
MVM5100D-5	192088.00	K01	
MVM5150C	192018.00		
MVM5150C-5	192089.00	K10	
MVM5150D	192015.00		
MVM5150D-5	192089.00	K01	
MVM5200C	192027.00		
MVM5200C-5	192097.00	K10	
MVM5200D	192024.00		
MVM5200D-5	192097.00	K01	
MVM5250C	192028.00		
MVM5250C-5	192098.00	K11	
MVM5250D	192025.00		
MVM5250D-5	192098.00	K02	
MVM5300C	192037.00		
MVM5300C-5	192106.00	K11	
MVM5300D	192034.00		
MVM5300D-5	192106.00	K02	
MVM5350C	192038.00		
MVM5350C-5	192107.00	K11	
MVM5350D	192035.00		
MVM5350D-5	192107.00	K02	
MVM5400C	192047.00		
MVM5400C-5	192115.00	K11	
MVM5400D	192044.00		
MVM5400D-5	192115.00	K02	
MVM5450C	192048.00		
MVM5450C-5	192116.00	K12	
MVM5450D	192045.00		
MVM5450D-5	192116.00	K03	
MVM5500C	192057.00		
MVM5500C-5	192124.00	K12	
MVM5500D	192054.00		
MVM5500D-5	192124.00	K03	
MVM5550C	192058.00		
MVM5550C-5	192125.00	K12	
MVM5550D	192055.00		
MVM5550D-5	192125.00	K03	
MVM5600C	192067.00		
MVM5600C-5	192133.00	K12	
MVM5600D	192064.00		
MVM5600D-5	192133.00	K03	
MVM5650C	192068.00		
MVM5650C	192204.00		
MVM5650C-5	192134.00	K13	
MVM5650D	192065.00		
MVM5650D-5	192134.00	K04	
MVM5700C	192077.00		
MVM5700C	192213.00		
MVM5700C-5	192142.00	K13	
MVM5700D	192074.00		
MVM5700D	192210.00		

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MVM5700D-5	192142.00	K04	
MVM570C	192207.00		
MVM5750C	192078.00		
MVM5750C-5	192143.00	K13	
MVM5750D	192075.00		
MVM5750D	192206.00		
MVM5750D-5	192143.00	K04	
NM3454	100123.00	C25	
NM3534	102920.00	C25	
NM3538	102918.00	C25	
NM3542	114309.00		
NM3546T	121098.00		
NM3554T	121099.00	E02	
PCL1313M	114214.00		
PCL1317M	114215.00		
PCL1319M	113700.00	F29	
PCL1322M	113281.00	F29	
PCL1326M	116707.00	F29	
PCL1327M	116709.00	F29	
PCL3513M	115024.00		
PCL3514M	116703.00	F29	
PCL3515M	114995.00	F29	
PCL3519M	115048.00	C11 F29	
PL1313M	113631.00		
PL1317M	113632.00		
PL1319M	113266.00		
PL1322M	116704.00	F05	
PL1326M	116706.00	F05	
PL1327M	116708.00		
PL3513M	110109.00		LM24532
PL3514M	113333.00	F05	LM24515
PL3515M	110402.00	F05	LM24534
PL3519M	116705.00	F05	LM24748
PSC3413A	100699.00		
PSC3416A	100700.00		
PSC3524A	100701.00		
RHM3104	100210.00		
RHM3108	100145.00		
RHM3108A	100796.00		
RHM3111	101773.00		
RHM3111A	101641.00		
RHM3112	100146.00	F05	
RHM3112A	100908.00		
RHM3115	114192.00		
RHM3115A	113895.00	F03	
RHM3116	110052.00		
RHM3116A	111311.00		
RHM3120A	113896.00		
RHM3154	110433.00		
RHM3154A	113846.00		
RHM3155A	113897.00		
RHM3157	114197.00		
RHM3157A	113847.00		
RHM3158	113926.00		
RHM3158TA	113926.00		
RHM3161TA	116593.00		
RHM3162TA	121665.00		
RL1205A	101431.00	C11	
RL1208A	101432.00	C11	
RL130	100012.00	F05	
RL1301A	100110.00		
RL1301A277	102964.00		
RL1304A	100011.00		
RL1304A277	102965.00		
RL1306A	100603.00	F05	
RL1307A277	102966.00		
RL1309A	110478.00		
RL1310A	110054.00		
RL1310A277	116599.00		
RL1313A	110479.00		
RL1317A	113633.00		

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RL1319A	110579.00		
RL1319A277	116600.00		
RL132	100065.00	F05	
RL1323A	100064.00		
RL144A	100109.00		
RL224A	101431.00	C11	
RL245A	100010.00	C25	
RL324A	101432.00	C11	
RL345A	100011.00		
RL425A	100603.00		
RL445A	100012.00	F05	
RL525A	110478.00	F05	
RL545A	110007.00	F05	
RL625A	110479.00	F05	
RL645A	110579.00	F05	
RL725A	113633.00	F05	
RM3003	100210.00	F03 H03	
RM3006	101639.00	F03 P01	
RM3007	100210.00	F03	
RM3009	101640.00	F03 P01	
RM3010	100145.00	F03	
RM3104	100210.00		
RM3108	100145.00		
RM3108A	100796.00		
RM3111	101773.00		
RM3111A	101641.00		
RM3112	100146.00		
RM3112A	100908.00		
RM3115	114192.00		
RM3115A	113895.00		
RM3116	110052.00		
RM3116A	111311.00		
RM3120	114194.00		
RM3120A	113896.00		
RM3154	110433.00		
RM3154A	113846.00		
RM3155	114196.00		
RM3155A	113897.00		
RM3157	114197.00		
RM3157A	113847.00		
RM3158	113926.00	P01	
RM3158TA	113926.00		
RM3161TA	116593.00		
RSP1441A	191868.00		
RSP1442A	191868.00		
RSP2441A	191869.00		
RSP2442A	191869.00		
RSP3441A	191870.00		
RSP3442A	191870.00		
UCL1015	140640.00		LM24782
UCL570	131847.00		
UCL710	131848.00		LM24780
UCM1014	140641.00		LM24785
UCM575	131849.00		LM24783
UCM713	131850.00		LM24784
UCME1014	140641.00		LM24785
UCME570	131849.00		LM24783
V2I325A	MK1052.00		
V2L425A	MK1072.00		
V2L525A	MK1102.00		
VBM3108	114156.00		
VBM3112	114157.00		
VBM3116	114166.00		
VBM3116T	121678.00		
VBM3154	116766.00		
VBM3154T	120372.00		
VBM3157T	120373.00		
VBM3211T	131624.00		
VBM3218T	131625.00		
VBM3248T	131625.00		
VBM3538	114159.00	E02	

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VBM3542	114160.00	E02	
VBM3542-5	110177.00	K91	
VBM3546	114161.00		
VBM3546T	121067.00		
VBM3546T-5	120176.00	K91	
VBM3554	116768.00		
VBM3554T	120331.00		
VBM3558T	120332.00		
VBM3611T	131610.00		
VBM3615T	131611.00		
VBM3710T	131612.00		
VBM3714T	140637.00		
VEM3542	114213.00		
VEM3545	116748.00		
VEM3546	114638.00		
VEM3546T	121067.00	C49	
VEM3550	116750.00		
VEM3554	116743.00		
VEM3554T	121066.00		
VEM3555	116744.00		
VEM3555	116751.00		
VEM3556	116749.00		
VEM3558	116744.00		
VEM3558T	121065.00		
VEM3581	114638.00	C01	
VEM3581	120024.00	C01	
VEM3581T	121067.00	C01	
VEM3584T	121066.00	C01	
VEM3587T	121065.00	C01	
VEM3610T	G131513.00		
VEM3615T	131501.00		LM16825
VEM3661T	131503.00	C01	LM16824
VEM3665T	131501.00	C01	LM16825
VEM3710T	140486.00		LM16826
VEM3714T	140484.00		
VEM3770T	140486.00	C01	LM16826
VEM3774T	140484.00	C01	
VFDL35010M	M009494.00		
VFDL3501M	113290.00		
VFDL3501M	M002290.00		
VFDL3504M	110492.00		
VFDL3504M	M009492.00		
VFDL3507M	110493.00		
VFDL3507M	M009493.00		
VFDL3510M	110494.00		
VFDL3514M	110495.00	C39	
VFDL3516TM	120855.00		
VFDL3610TM	131603.00	C39	
VFDL3612TM	131602.00	C39	
VL1301	100024.00	K89	LM24571
VL1303	100356.00	K89	LM24689
VL1303A	100054.00	K89	
VL1303A	100204.00		
VL1303A	101524.00		
VL1304	100025.00	K89	LM24555
VL1305	110381.00	K82	LM24544
VL1306	100357.00	K89	LM24690
VL1306A	100055.00	K89	
VL1306A	100205.00		
VL1306A	101525.00		
VL1307	100026.00	K89	
VL1307A	101523.00	K89	
VL1308	110382.00	K82	LM24691
VL1309	110384.00	K82	LM24526
VL1309A	100722.00		
VL1309A	101526.00		
VL1309A	113337.00	K82	
VL1310	110220.00	K82	LM24586
VL1313	110387.00	K82	LM24523
VL1313A	110288.00		
VL1313A	113336.00	K82	



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VL1313A	113686.00		
VL1317	110390.00	K82	LM24527
VL1317A	110289.00		
VL1317A	113335.00	K82	
VL1318	110220.00	K82	LM24586
VL1318A	110036.00	P02 K82	
VL1319	110388.00	K82	LM24587
VL1322T	120073.00	K82	LM24694
VL1323A	110280.00		
VL1323A	113334.00	K82	
VL1408T	131539.00	K84	LM24696
VL1408T	131544.00	K84	LM24695
VL225A	100204.00	H01	
VL325A	100204.00		
VL3501	101766.00	F02	
VL3501-50	113921.00	C25	
VL3503	102864.00		LM24736
VL3503-50	113912.00		
VL3504	102862.00	E02	LM24599
VL3504-50	113922.00		
VL3505	110411.00		LM24737
VL3506	110413.00		LM24738
VL3506-50	113913.00		
VL3506A	110412.00	P02	LM24745
VL3507	110057.00		LM24613
VL3507-50	113923.00		
VL3508	110414.00		LM24739
VL3509	110416.00		LM24740
VL3509-50	113914.00		
VL3509A	110415.00	P02	
VL3510	110058.00		LM24614
VL3510-50	113924.00		
VL3510T	121001.00		LM24741
VL3513	110419.00		LM24535
VL3513-50	113915.00	C25	
VL3513T	120101.00		
VL3514	110420.00		LM24622
VL3514-50	113925.00		
VL3514T	120017.00		
VL3515	110422.00		LM24530
VL3515-50	120990.00	F07	
VL3515T	120102.00		
VL3605	120060.00	F07	
VL3605T	131516.00		
VL3606T	132083.00	B31	
VL3609T	131545.00		
VL4005A	111095.00		
VL425A	100205.00		
VL5001A	111075.00	E01	
VL5003A	111098.00		
VL5004A	111085.00		
VL5006A	111097.00		
VL5007A	111086.00		
VL5009A	111096.00		
VL5023A	110852.00		
VL5030	114424.00		
VL525A	100722.00		
VL625A	110288.00		
VL725A	110289.00		
VL825A	110280.00		
VM2333T	151350.60		
VM2333T	G151350.60		LM16828
VM2334T	151352.60		
VM2334T	G151352.60		LM16829
VM2394T	G151349.60		
VM2513T	151682.60	C02	
VM2513T	G151682.60		
VM2514T	151683.60	C02	
VM2514T	G151683.60		
VM2515T	151684.60	C02	
VM2515T	G151684.60		
VM2516T	151685.60	C02	

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VM2516T	G151685.60		
VM2531T	151686.60	C02	
VM2531T	G151686.60		
VM2534T	151687.60	C02	
VM2534T	G151687.60		
VM3104	100048.00	F02	LM24910
VM3107	100056.00	F02	LM24911
VM3108	100049.00		LM24912
VM3109	110434.00		LM24913
VM3111	100378.00	F02	LM24914
VM3112	100050.00	F02	LM24915
VM3115	110111.00		LM24916
VM3116	110043.00	C25	LM24917
VM3116T	120172.00	C25	
VM3116T	G120172.00		LM32790
VM3120	110437.00		LM24919
VM3120T	121668.00		
VM3153	116728.00		
VM3153T	120063.00		
VM3154	110044.00		LM24160
VM3154T	120081.00		
VM3154T	G120081.00		LM32791
VM3155	113894.00		LM24921
VM3155T	121670.00		
VM3155T	G121670.00		
VM3156T	120082.00		
VM3156T	G120082.00		
VM3157	115553.00		LM24131
VM3157T	120035.00		
VM3157T	G120035.00		LM32792
VM3158	114420.00		LM24923
VM3158T	121187.00		
VM3158T	G121187.00		LM32793
VM3159T	121669.00		
VM3159T	G121669.00		
VM3161T	121405.00		
VM3161T	G131489.00		LM32794
VM3211	121405.00	F07	
VM3211T	131489.00		
VM3211T	131518.00		
VM3212T	131779.00		
VM3212T	G131779.00		
VM3215T	132059.00		
VM3215T	G132059.00		
VM3218	131779.00	F10	
VM3218T	131490.00		
VM3218T	G131490.00		LM24234
VM3219T	131780.00		
VM3219T	G131780.00		
VM3305T	140765.00		
VM3305T	G140765.00		
VM3311T	131527.00		
VM3311T	G140580.00		LM32800
VM3312T	140688.00		
VM3313T	140108.00		
VM3314T	140689.00		
VM3314T	G140689.00		
VM331T	G140108.00		LM32801
VM3534	101769.00	F02	LM24093
VM3534-5	110176.00	E01 H01	
VM3534-50	102689.00		
VM3535	113311.00		LM24858
VM3537	114176.00		LM24138
VM3537-50	102691.00		
VM3538	102860.00		LM24083
VM3538-5	110176.00	E01	
VM3538-50	102694.00		
VM3539	110163.00		LM24128
VM3541	110448.00		LM24151
VM3541-50	114893.00		
VM3542	110047.00		LM24077
VM3542-5	110177.00		

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VM3542-50	114894.00		
VM3543	112378.00		LM24153
VM3543T	120097.00		
VM3545	110112.00		LM24139
VM3545-50	114895.00		
VM3546	110048.00		LM24080
VM3546-5	110204.00		
VM3546T	120024.00		
VM3546T	G120024.00	C15	LM24080
VM3546T-5	120176.00		
VM3546T-5	G120176.00		
VM3546T-50	121272.00		
VM3550	110192.00		LM24096
VM3550T	120105.00		
VM3550T	G120105.00	C15	LM32810
VM3550T-50	121274.00		
VM3554	110125.00		LM24112
VM3554-5	111444.00		
VM3554T	120037.00		
VM3554T	G120037.00	C15	LM24149
VM3554T-5	120177.00		
VM3554T-5	G120177.00		
VM3554T-50	121275.00		
VM3555	111273.00		LM24132
VM3555-5	111611.00		
VM3555T	120061.00		
VM3555T	G120061.00		LM32678
VM3555T-50	121276.00		
VM3556	112379.00		LM24130
VM3556T	120098.00		
VM3556T	G120098.00	C15	LM32846
VM3557	113634.00		
VM3557T	120161.00		
VM3558	110451.00		LM24084
VM3558T	120038.00		
VM3558T	G120038.00		LM24125
VM3558T-5	120178.00		
VM3558T-5	G120178.00		
VM3558T-50	121277.00		
VM3559	111630.00		LM24975
VM3559T	120993.00		
VM3559T	G120993.00		LM32848
VM3561	113890.00	C11	
VM3603	120024.00	F07	
VM3606	120037.00	F07	
VM3607	120161.00	F07	
VM3609	120038.00	F07	
VM3610	120993.00	F07	
VM3610T	131513.00		
VM3611	131491.00	F10	
VM3611T	131491.00		
VM3611T	G131491.00		LM16298
VM3611T-5	131498.00		
VM3611T-5	G131498.00		
VM3613	131514.00	F10	
VM3613T	131514.00		
VM3613T	G131514.00		
VM3614	120038.00	F07	
VM3614T	131525.00		
VM3614T	G131525.00		
VM3615	131492.00	F10	
VM3615T	131492.00		
VM3615T	G131492.00		LM16299
VM3615T-5	131499.00		
VM3615T-5	G131499.00		
VM3616T	131510.00		
VM3616T	G131510.00		
VM3703	131491.00	B23	
VM3704	131642.00	F24	
VM3704T	131642.00		
VM3704T	G131642.00		LM32850
VM3707	131492.00	B23	

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VM3708T	140535.00		
VM3708T	G140535.00		LM32852
VM3709T	131912.00		
VM3709T	G131912.00		
VM3710T	131528.00		
VM3710T	G141113.00		LM16300
VM3711T	140690.00		
VM3711T	G140690.00		
VM3713T	140691.00		
VM3713T	G140691.00		LM32832
VM3714T	140109.00		
VM3714T	G140109.00	C15	LM32855
VM3774T	G151348.60		LM16301
VM37770T	G151346.60		
VM4103T	151507.60		
VM4103T	G151507.60		
VM4104T	151508.60		
VM4104T	G151508.60		
VM4106T	151351.60		
VM4106T	G151351.60		
VM7002A	111931.00	E01	
VM7005A	111933.00	E01	
VM7006A	111930.00	E01	
VM7009A	111936.00		
VM7010A	111935.00		
VM7013	111943.00	P01	
VM7014	111926.00	P01	
VM7018T	111939.00	P01	
VM7034	111941.00	P01	
VM7037T	121178.00		
VM7037T	G121178.00	P01	
VM7042T	158003.00	C02	
VM7044T	158005.00	C02	
VM7044T	G825128.00	P01	
VM7071T	113971.00	P01	
VM7075T	114419.00	P01	
VNM3537	110144.00		
VNM3538	102861.00	F02	
VNM3542	110047.00	C25 E02	LM24077
VP3311D	M1130149.00	F21	
VP3316D	098014.00	E02 K18	
VP3326D	098015.00	E02 K18	
VP3411-14	M1130139.00	F21	
VP3416-14	098014.00	K22	
VP3426-14	098015.00	K22	
VP3428D	098016.00	K18	
VP3436-14	108369.00	K23	
VP3436D	108369.00	K19	
VP3439D	098017.00	K19	
VP3455-14	108370.00	K23	
VP3455D	108370.00	K19	
VP3458D	108372.00	K19	
VP3468D	108373.00	K20	
VP3575-14	118007.00	K24	
VP3575D	118007.00	K20	
VP3585-14	118008.00	K24	
VP3585D	118008.00	K20	
VP3588D	118009.00	K20	
VP3603D	118014.00	K21	
VP3605D	118010.00	K21	
VP7424-14	M1130139.00	E02	
VP7424D	M1130149.00	E02	
VSSFWDWM3542	103390.00		
VSSFWDWM3546	117287.00	F29	
VSSSWDM3537	117126.00		
VSSSWDM3538	103413.00		
VSSSWDM3538	117127.00		
VSSSWDM3541	117128.00		
VSSSWDM3542	103414.00		
VSSSWDM3542	117129.00		
VSSSWDM3545	117130.00		
VSSSWDM3546	117131.00		



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Competitor Catalog #	LEESON Catalog #	Exception Code(s) To LEESON	Lincoln Catalog #
VSSSWDM3550T	121750.00		
VSSSWDM3554	117297.00		
VSSSWDM3554T	121751.00		
VSSSWDM3555T	121742.00		
VSSSWDM3558	117298.00		
VSSSWDM3558T	121743.00		
VSSWDM3537	117279.00		
VSSWDM3538	116166.00		
VSSWDM3538	117270.00		
VSSWDM3541	117280.00	F02	
VSSWDM3542	116168.00		
VSSWDM3542	117272.00		
VSSWDM3545	116318.00		
VSSWDM3545	117281.00		
VSSWDM3546	116170.00		
VSSWDM3548	117274.00		
VSSWDM3554T	G121525.00		
VSSWDM3558T	G121527.00		
VSSWDM3559T	121562.00		
VSSWDM3559T	G121562.00		
VSSWDM355T	G121561.00		
VSSWDM3611T	131923.00		
VSSWDM3611T	G131923.00		
VSSWDM3613T	131949.00		
VSSWDM3613T	G131949.00		
VSSWDM3615T	131924.00		
VSSWDM3615T	G131924.00		
VSWDM3536	114437.00		
VSWDM3538	114394.00		
VSWDM3538	191205.00		
VSWDM3542	114395.00		
VSWDM3542	191208.00		
VSWDM3546	191290.00		
VSWDM3546T	121109.00		
VSWDM3546T	191214.00		
VSWDM3554	114581.00		
VSWDM3554	191219.00		
VSWDM3554T	191220.00		
VSWDM3554T	G121350.00	E02	
VSWDM3558T	191226.00		
VSWDM3558T	G121351.00	E02	
VWDL3504	114313.00	C55	
VWDL3507	114315.00	C55	
VWDL3510	114317.00	C55	
VWDL3514	114319.00	C55	
VWDM2714T	G140465.00		
VWDM3538	113473.00		
VWDM3542	113019.00		
VWDM3546	113020.00		
VWDM3546T	120760.00		
VWDM3554	113021.00		
VWDM3554T	120761.00		
VWDM3558	114616.00		
VWDM3558T	120762.00		
VWDM3559	115976.00		
VWDM3611T	131596.00		
VWDM3611T	G131596.00		
VWDM3615T	131597.00		
VWDM3615T	G131597.00		
VWDM3710T	140467.00		
VWDM3714T	140465.00		
WDM3538	112427.00	E02	
WDM3542	112428.00	E02	
WDM3546T	G120585.00	E02	
WDM3554T	G120858.00	E02	
WDM3558T	G120586.00		
WDM3558TP	G121191.00		
WDM3561TP	115751.00		
WDM3611T	G130662.00		
WDM3615T	G130663.00		
WDM3710T	G140280.00		
WDM3710T	G140467.00		

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WDM3714T	G140281.00		
WWL3515T	120997.00	C25	
WWL3606	120728.00		
YPC144A	191872.00		
YPC164A	191891.00		
YPC244A	191871.00		
YPC245A	191910.00		
YPC264A	191892.00		
YPC265A	191911.00		
YPC344A	191873.00		
YPC345A	191875.00		
YPC364A	191893.00		
YPC365A	191912.00		
YPC244A	191871.00		
YPC245A	191910.00		
YPC264A	191892.00		
YPC265A	191911.00		
YPC344A	191873.00		
YPC345A	191875.00		
YPC364A	191893.00		
YPC365A	191912.00		

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Competitor Catalog #	LEESON Catalog #	Exception Code(s) To LEESON		Lincoln Catalog #
1D056	100340.00			LM24674
1D060	100116.00			
1D061	100184.00			LM24465
1D062	100340.00			LM24674
1D063	110360.00			LM24525
1D065	101431.00			
1D066	100804.00	C29	P01	LM24448
1D067	100804.00	C29		LM24448
1D068	101432.00	P01		
1D070	101781.00			
1F640	108231.00			
1F642	108230.00			
1F644	108229.00			
1F646	108228.00			
1F648	108227.00			
1F650	108226.00			
1F652	108424.00			
1F654	108423.00			
1K060	092114.00			
1K061	092116.00			
1K064	120067.00			LM24677
1K065	110209.00			LM24610
1K066	110253.00			LM24513
1K068	111095.00	E01		
1K069	111098.00			
1K070	111097.00			
1K071	111096.00			
1K072	110852.00			
1K073	110388.00			LM24587
1K074	112136.00	E02		
1K075	112136.00			
1K079	102907.00			LM24628
1K080	112135.00	P03		LM24726
1K081	110905.00			LM24615
1K082	110910.00			LM24728
1K082	121681.00			
1K084	101650.00			LM24699
1L498	M1135042.00	S07	S08	
1L499	M1135043.00	S07	S08	
1L502	M1145038.00	S07	S08 C29	
1L533	M1125084.00	S08	S09 B36	
1L534	M1125083.00	S08	S09 B36	
1L535	M1125082.00	S08	S09 B36	
1L536	M1125080.00	S08	S09 B36	
1L538	M1125081.00	S08	S09 B36	
1Z840	M1120039.00			
1Z842	M1120045.00			
1Z851	M1120043.00			
1Z854	M1130053.00			
1Z874	100599.00			LM24277
1Z876	100600.00			LM24879
1Z881	100602.00			LM24267
1Z883	G121286.00	E02		
1Z883	G121650.00			
1Z897	110901.00			LM24346
1Z897	116784.00			LM24884
1Z899	110917.00	E02		LM24135
1Z899	116785.00			
1Z901	G121290.00	E02		
1Z905	G121287.00	E02		
1Z905	G121651.00			
1Z911	110902.00			LM24889
1Z914	114218.00			
1Z916	116630.00			LM24345
1Z918	G120275.00			
1Z920	G121072.00			
1Z924	116631.00			
1Z946	100375.00			LM24909
1Z948	113311.00	E02		LM24858
1Z955	100056.00			LM24911
1Z958	100378.00			LM24914
1Z972	112378.00			LM24153

Competitor Catalog #	LEESON Catalog #	Exception Code(s) To LEESON		Lincoln Catalog #
1Z972	116728.00			
1Z976	120063.00	E02		
1Z983	110111.00			LM24916
1Z995	120105.00	E02		
1Z995	121668.00			
1Z997	110437.00			LM24919
2A754	M1760003.00			
2G691	140450.00	C01		LM16029
2G703	140451.00	C01		LM32809
2K253	101433.00			
2K258	110579.00			
2K259	113608.00			
2K261	111953.00			
2K264	111954.00	C10		
2K267	113672.00	C10		
2K343	131541.00	S07		LM24796
2K344	131542.00			LM24801
2K345	131543.00			LM24798
2K347	140130.00			
2K348	100804.00			LM24448
2K349	100803.00			LM2447
2K350	101159.00			
2K351	113280.00			
2K352	120374.00	P03		
2K353	120375.00	P03 C10		
2K354	120376.00	P03		
2K366	100207.00	H01		
2K367	100207.00			
2K368	100208.00			
2K369	100723.00			
2K370	110292.00			
2K371	110293.00			
2K372	110286.00			
2K376	102864.00	P03		LM24736
2K377	110416.00	P03		LM24740
2K378	113956.00			
2K380	110180.00	P03		LM24727
2K381	102871.00			
2K382	113955.00			
2K383	110422.00	P03		LM24530
2K386	113913.00	E02		
2K388	110413.00	P03		LM24738
2K389	110419.00	P03		LM24535
2K390	113641.00			
2K391	100204.00	H01		
2K392	100204.00			
2K393	100205.00			
2K394	100722.00			
2K395	110288.00			
2K396	110289.00			
2K397	100207.00	H01		
2K398	100207.00			
2K399	100208.00			
2K400	100723.00			
2K401	110292.00			
2K402	110293.00			
2K409	100204.00	H01		
2K410	100207.00	H01		
2K484	100588.00			LM24550
2K496	131636.00			LM24679
2K497	131616.00			LM24681
2K501	140155.00			LM24683
2K502	113027.00			
2K504	100109.00	C12		
2K505	100109.00	P01		
2K510	100767.00	C29 P01		
2K511	100767.00	C29		
2K519	100012.00	P01		
2K524	110363.00			LM24624
2K525	120341.00	E02		LM24714
2K526	110004.00			LM24580
2K529	110004.00			LM24580



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2K530	100115.00				
2K532	101423.00	P02			LM24458
2K533	100115.00				
2K539	100006.00				LM24570
2K542	110001.00				LM24540
2K546	100338.00				
2K548	100007.00				LM24551
2K549	100004.00				LM24553
2K551	110002.00				LM24542
2K554	100008.00				LM24502
2K555	100005.00				
2K558	110003.00				LM24543
2K559	110361.00				LM24524
2K560	110005.00				LM24583
2K566	140414.00	P02	S04		LM24805
2K567	131637.00				LM24715
2K568	131549.00				LM24717
2K570	140120.00				LM24720
2K572	110025.00				
2K573	110026.00				
2K574	111915.00				
2K577	102014.00				LM24606
2K579	101446.00	P02			
2K581	114617.00				LM24545
2K587	110009.00				LM24546
2K588	102020.00	P03			
2K590	100956.00				
2K593	110011.00				LM24496
2K595	110276.00				LM24707
2K596	110108.00				LM24744
2K597	110013.00				LM24607
2K599	110400.00				LM24497
2K600	110059.00				LM24708
2K601	110142.00				LM24745
2K602	110209.00				LM24610
2K604	120025.00				LM24709
2K606	110109.00				LM24532
2K607	110253.00				LM24513
2K609	110402.00				LM24534
2K620	111075.00	H03			
2K621	111075.00				
2K622	111098.00				
2K624	111085.00				
2K625	111086.00				
2K631	113921.00	P02			
2K633	111098.00				
2K634	113922.00	P02			
2K636	110852.00				
2K645	110382.00				LM24691
2K646	110361.00				LM24524
2K648	101521.00				
2K649	101522.00				
2K650	101522.00				
2K651	100020.00				
2K653	101523.00				
2K654	101523.00				
2K655	110036.00	P02			
2K661	110422.00				LM24530
2K663	102870.00				LM24736
2K665	110419.00				LM24535
2K666	110411.00				LM24737
2K670	102866.00				
2K671	112135.00				LM24726
2K673	110180.00				LM24727
2K676	110905.00				LM24615
2K678	110910.00				LM24728
2K773	100015.00	P01			
2K774	100012.00	P01			
2K776	111954.00	C10			
2K778	111955.00				
2K779	113373.00				
2M167	098002.00				

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2M168	098000.00				
2M168	108014.00				
2M168D	098000.00				
2M169	098032.00				
2M169	108018.00				
2M170	108022.00				
2M501	098002.00				
2M502	098004.00				
2M503	098000.00				
2M503	108014.00				
2M504	098032.00				
2M504	108018.00				
2M505	108022.00				
2M506	108023.00				
2M507	098008.00				
2M507	108015.00				
2M508	098069.00				
2M508	108019.00				
2M509	098004.00				
2M530	174924.00				
2M531	174552.00				
2M532	174558.00				
2M533	174561.00				
2M534	174563.00				
2M535	174565.00				
2N864	101079.00				LM24107
2N865	100913.00				LM24073
2N866	110034.00				LM24075
2N913	100048.00				LM24910
2N914	100049.00				LM24912
2N915	102863.00	E01			
2N916	102860.00	C46			LM24083
2N923	100050.00				LM24915
2N924	110047.00	C46			LM24077
2N925	110441.00				LM24931
2N926	110353.00				LM24105
2N933	G120014.00	B22			
2N934	G120015.00	B22			
2N935	G120016.00	B22			
2N936	G130008.00	B23			
2N937	G130027.00	B23			
2N938	G150157.60	B24 C02			
2N941	G120087.00	B22			
2N942	116591.00	B22			
2N943	G130016.00	B23			
2N945	G140126.00	B24			
2N946	G120086.00	B22			
2N947	G120088.00	B22			
2N948	G120185.00	B22			
2N949	G150299.60	B23 C02			
2N980	G120010.00	B22			
2N981	G120011.00	B22			
2N982	G120012.00	B22			
2N983	G130000.00	B23			
2N984	G130004.00	B23			
2N985	G150142.60	B24			
2N986	G150144.60	B24			
2N988	G120089.00	B22			
2N990	G130012.00	B23			
2N992	G140122.00	B24			
2N995	G120103.00	B22			
2N996	G120076.00	B22			
2N997	G120077.00	B22			
2R918	120061.00	E02			
2R918	121670.00				
2R920	113894.00				LM24921
2R922	114420.00				LM24923
2R924	121187.00				
2R926	114142.00				LM24129
2R928	110914.00				LM24104
2R930	110915.00				LM24134
2R932	116340.00	B34 E02			LM24140

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Competitor Catalog #	LEESON Catalog #	Exception Code(s) To LEESON	Lincoln Catalog #
2R934	110181.00		LM24126
2R938	110917.00		LM24135
2R940	G121290.00		
2R942	G121287.00		
2R946	G120276.00		
2R948	G120991.00		
2R950	110434.00		LM24913
2Z267	G120077.00		
2Z276	116595.00		
2Z347	110714.00	E01	LM25094
2Z380	110214.00		
2Z500	110354.00		LM24110
2Z657	121009.00		LM24103
2Z817	M1145023.00	C29 E01	
2Z818	M1145026.00	C29 E01	
2Z828	111394.00		
2Z841	M1145027.00	C29 E01	
2Z842	107011.00	C10 C32	
2Z843	107009.00	C10 C32	
2Z844	107008.00	C10 C32	
2Z845	107007.00	C10 C32	
2Z937	110715.00		LM25096
2Z981	110206.00		LM25097
3GC39	113933.00		LM24159
3GC47	G120185.00		
3GC49	111933.00		
3GC51	111936.00		
3GC53	111943.00		
3GC57	113971.00		
3GC58	121178.00		
3GC59	114419.00		
3GC60	114627.00		
3GC61	114629.00		
3GC63	114631.00		
3GC64	114633.00		
3GC66	114635.00		
3GC67	G121182.00		
3GC69	111940.00		
3GC70	111934.00		
3GC71	111938.00		
3GC72	111937.00		
3GC75	111942.00		
3GC78	G120387.00		
3GC81	114930.00		
3GC84	G120088.00		
3GC86	101052.00		
3GC88	101051.00		
3GC89	100601.00		LM24880
3GC91	110178.00		LM25095
3HX70	174914.00		
3HX71	174914.00		
3HX72	174915.00		
3HX73	174917.00		
3HX74	174918.00		
3HX75	174919.00		
3HX76	174920.00		
3HX77	174921.00		
3HX78	174922.00		
3HX79	174923.00		
3K015	102867.00	E01	LM24598
3K015	101766.00		
3K016	102862.00		LM24599
3K017	110057.00		LM24613
3K018	110058.00		LM24614
3K020	110420.00		LM24622
3K054	101015.00	C12	
3K060	100064.00		
3K064	110007.00		
3K070	100023.00		LM24569
3K071	100024.00		LM24571
3K072	100025.00		LM24555
3K073	100026.00		

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3K074	110220.00		LM24586
3K080	111953.00		
3K081	111954.00		
3K083	111955.00		
3K084	113373.00		
3K091	191868.00	C12	
3K092	101432.00		
3K093	100011.00		
3K093	100064.00		
3K094	100603.00		
3K095	100012.00		
3K095	111266.00		
3K096	110478.00		
3K097	110007.00		
3K098	110479.00		
3K099	113633.00		
3K142	100011.00		
3K143	100012.00		
3K144	110007.00		
3K147	110579.00		
3K148	100109.00		
3K152	110019.00		LM24514
3K152	120009.00		LM24746
3K155	131509.00		LM24713
3K156	131533.00		LM24716
3K159	131538.00		LM24718
3K170	100001.00		LM24549
3K171	100052.00		
3K172	100002.00		LM24552
3K173	100053.00		
3K174	100003.00		LM24503
3K175	110097.00		
3K176	110000.00		LM24581
3K177	110110.00		
3K199	100011.00		
3K201	100000.00	C12	LM24457
3K211	100002.00	C12	LM24552
3K213	100011.00	C12	
3K218	100003.00	C12	LM24503
3K224	100012.00	C12	
3K229	110017.00		LM24608
3K230	110276.00	P03	LM24707
3K230	110108.00	P02	LM24744
3K231	110018.00		LM24611
3K234	110059.00	P03	LM24708
3K234	110142.00	P02	LM24745
3K235	110019.00		LM24514
3K235	113333.00	P02	LM24515
3K239	110094.00	P03	LM24531
3K239	110109.00	P02	LM24532
3K300	120130.00		LM24710
3K344	120036.00		LM24712
3K344	120395.00		LM24747
3K348	110180.00		LM24727
3K614	191868.00		
3K615	191869.00		
3K616	191870.00		
3K781	100052.00	C12	
3K782	100002.00		LM24552
3K783	100053.00	C12	
3K784	100003.00	C12	LM24503
3K785	110097.00	C12	
3K785	110160.00		
3K786	110110.00	C12	
3K786	110161.00		
3K787	113632.00	C12	
3K788	110222.00	C12	
3K790	111275.00		
3K794	111074.00		
3K795	111084.00		
3K795	111085.00		
3K796	110934.00		



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3K796	111086.00		
3K801	100204.00	H01	
3K802	100207.00	H01	
3K803	100204.00		
3K804	100207.00		
3K805	100205.00		
3K806	100208.00		
3K807	100722.00		
3K808	100723.00		
3K809	110288.00		
3K810	110292.00		
3K973	111074.00	H03	
3K978	110288.00		
3K985	100723.00		
3K986	110292.00		
3K994	101435.00		LM24462
3K994	101159.00		
3K995	101436.00		LM24463
3K995	101120.00		
3K996	101437.00		LM24812
3K996	101119.00		
3KV62	174931.00		
3KV63	174933.00		
3KV64	174934.00		
3KV65	174930.00		
3KV66	174920.00		
3KV67	174931.00		
3KV77	G151320.60		
3KV80	G151322.60		
3KW89	170066.60		LM24208
3KW25	121003.00		LM24871
3KW28	121004.00		LM24875
3KW31	121005.00		LM24169
3KW34	131519.00		LM24222
3KW37	131520.00		LM24202
3KW40	170142.60		
3KW42	170143.60		
3KW42	G140682.00		
3KW43	170144.60		
3KW45	170064.60		
3KW45	G140683.00		
3KW46	170065.60		LM24190
3KW48	170032.60		LM32745
3KW49	170006.60		LM24199
3KW51	170034.60		LM32747
3KW52	170009.60		LM29576
3KW54	170036.60		LM32687
3KW55	170013.60		LM29577
3KW57	170038.60		LM13969
3KW58	170017.60		LM13811
3KX06	G130103.00		
3KX08	G140686.00		
3M130	175091.00		
3M131	175092.00		
3M132	175093.00		
3M276	175033.00		
3M277	175034.00		
3M278	175035.00		
3M279	175036.00		
3M280	175037.00		
3M281	175038.00		
3M282	175039.00		
3M367	175094.00		
3M593	113292.00		LM24877
3N003	G150143.60	B24	
3N012	110029.00		LM24111
3N013	121004.00		LM24875
3N017	110035.00		LM24078
3N018	110444.00		LM24118
3N026	100210.00		
3N026	100796.00	H01 P01	
3N027	100145.00		

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3N028	110043.00		LM24917
3N044	121004.00		LM24875
3N073	G150066.60		
3N087	110048.00		LM24080
3N088	101776.00		
3N090	114203.00		
3N234	113028.00		
3N235	113029.00		
3N236	113030.00		
3N237	110112.00		LM24139
3N238	111273.00		LM24132
3N254	G150007.60	C02	
3N255	G150011.60	C02	
3N265	110125.00		LM24112
3N266	110451.00		LM24084
3N285	110035.00		LM24078
3N291	G158362.00	C02	
3N317	110145.00		LM24094
3N329	G158366.00	C02	
3N330	G158157.00	C02	
3N331	G158140.00	C02	
3N333	G120490.00		
3N334	G120391.00		
3N341	G150140.60	C02	
3N343	110918.00		LM24095
3N344	G120276.00		
3N345	G130326.00		
3N346	G130328.00		
3N347	G150165.60	C02	
3N348	G150167.60	C02	
3N349	101649.00		
3N350	101647.00		LM24930
3N351	100961.00		LM24932
3N352	110034.00		LM24075
3N367	111932.00	E01	
3N368	111929.00	E01	
3N369	111923.00		
3N370	111922.00		
3N390	G120010.00		
3N391	G120011.00		
3N392	G120012.00		
3N393	G130000.00		
3N394	G130004.00		
3N395	G150142.60		
3N396	G150144.60		
3N397	G150065.60		
3N398	G150006.60		
3N399	G150009.60		
3N403	G130008.00		
3N404	G130027.00		
3N405	G150157.60	C02	
3N406	G150140.60	C02	
3N407	G150066.60	C02	
3N408	G150000.60	C02	
3N409	G150011.60	C02	
3N418	100028.00		LM24152
3N419	100029.00		LM24098
3N420	100030.00		LM24099
3N421	110029.00		LM24111
3N422	110430.00		LM24117
3N427	110275.00		LM24136
3N442	110143.00	E01	
3N443	110313.00		LM24133
3N444	110745.00		LM24144
3N445	111916.00		LM24347
3N446	110912.00		LM24079
3N447	113927.00		LM24121
3N450	G120010.00		
3N451	G120011.00		
3N452	G120012.00		
3N453	G130000.00		
3N454	G130004.00		

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3N455	G150142.60	C02	
3N456	G150144.60	C02	
3N469	111147.00		
3N470	111148.00		
3N471	114176.00		LM24138
3N471	110144.00		
3N472	110448.00		LM24151
3N473	110192.00		LM24096
3N474	G150025.60	C02	
3N475	G150029.60	C02	
3N476	G150152.60	C02	
3N486	113026.00		LM24097
3N487	100146.00		
3N488	110052.00		
3N489	110433.00		
3N497	G150062.60	C02	
3N499	G150035.60	C02	
3N509	G120014.00		
3N510	G120015.00		
3N511	G120016.00		
3N512	G120087.00		
3N514	G120088.00		
3N515	G130008.00		
3N516	G130027.00		
3N517	G130015.00		
3N518	G130016.00		
3N521	G150157.60	C02	
3N522	G150140.60	C02	
3N524	G140126.00		
3N526	G150159.60	C02	
3N527	100028.00		LM24152
3N528	100029.00		LM24098
3N529	100030.00		LM24099
3N530	101449.00		LM24870
3N531	110029.00		LM24111
3N532	110426.00		LM24155
3N533	110430.00		LM24117
3N534	110429.00		LM24874
3N536	100913.00		LM24073
3N536	101079.00		LM24107
3N537	110143.00		
3N538	110034.00		LM24075
3N539	110313.00		LM24133
3N540	110035.00		LM24078
3N541	110145.00		LM24094
3N542	110444.00		LM24118
3N544	G120076.00		
3N544	G130282.00		
3N546	G120088.00		
3N548	G120014.00		
3N549	G120087.00		
3N550	G120015.00		
3N551	G120086.00		
3N552	G130015.00		
3N553	G120016.00		
3N554	G120088.00		
3N555	G130016.00		
3N556	G130008.00		
3N558	G130027.00		
3N560	110143.00		
3N561	110313.00		LM24133
3N562	110145.00		LM24094
3N567	G120489.00		
3N570	G140126.00		
3N572	G150157.60	C02	
3N573	G150159.60	C02	
3N574	G150140.60	C02	
3N577	G150013.60	C02	
3N578	G150017.60	C02	
3N579	G150021.60	C02	
3N580	G150025.60	C02	
3N581	G150029.60	C02	

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3N582	G150152.60	C02	
3N583	G150015.60	C02	
3N584	G150019.60	C02	
3N585	G150023.60	C02	
3N586	G150027.60	C02	
3N587	G150031.60	C02	
3N588	G150087.60	C02	
3N590	101448.00		LM24869
3N592	110429.00		LM24874
3N599	G150159.60		
3N600	G150062.60		
3N602	G150035.60		
3N608	G150157.60		
3N609	G150140.60		
3N610	G150066.60		
3N611	G150007.60		
3N612	G150011.60		
3N613	G150015.60		
3N614	G150019.60		
3N615	G150023.60		
3N616	G150027.60		
3N617	G150031.60		
3N618	G150087.60		
3N629	111329.00		LM24521
3N634	101640.00		
3N634	101641.00	H07	
3N635	101641.00		
3N636	113895.00		
3N637	113896.00		
3N638	113897.00		
3N639	100027.00		LM24866
3N640	100028.00		LM24152
3N641	100029.00		LM24098
3N642	100030.00		LM24099
3N643	110029.00		LM24111
3N644	110430.00		LM24117
3N647	111147.00		
3N648	111148.00		
3N649	111630.00		LM24975
3N650	113890.00		
3N655	G120010.00		
3N657	G120012.00		
3N658	G130000.00		
3N659	G130004.00		
3N660	G150142.60	C02	
3N661	G150144.60	C02	
3N662	G150065.60	C02	
3N663	G150006.60	C02	
3N664	G150009.60	C02	
3N666	G120103.00		
3N667	G120076.00		
3N668	G120077.00		
3N669	G130282.00		
3N671	G150143.60	C02	
3N672	G150064.60	C02	
3N673	G150032.60	C02	
3N674	G150034.60	C02	
3N675	G120089.00		
3N676	G130010.00		
3N677	G130012.00		
3N679	G140122.00		
3N680	113028.00	H07	
3N681	113031.00		
3N682	113032.00		
3N683	100049.00		LM24912
3N684	100050.00		LM24915
3N685	110043.00		LM24917
3N686	102863.00		
3N687	102860.00		LM24083
3N688	110047.00		LM24077
3N689	110048.00		LM24080
3N690	110125.00		LM24112



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3N691	G150145.60		
3N692	G150146.60		
3N693	113025.00		LM24106
3N695	102024.00	F04	
3N696	114624.00	F04	
3N723	114931.00		
3N724	114208.00		
3N725	114207.00		
3N726	114206.00		
3N727	114205.00		
3N728	114204.00		
3N734	G150157.60		
3N735	G150140.60		
3N736	G150066.60		
3N737	G150007.60		
3N738	G150011.60		
3N739	G150015.60		
3N740	G150019.60		
3N741	G150023.60		
3N742	G150027.60		
3N743	G150031.60		
3N744	G150087.60		
3N752	G150159.60		
3N753	G150062.60		
3N755	G150035.60		
3N761	G120185.00		
3N772	112430.00		
3N773	112524.00	E01	
3N774	112643.00	E02	
3N775	112644.00		
3N779	G140464.00		
3N780	112429.00		
3N780	113473.00		
3N781	112430.00		
3N781	113019.00		
3N782	112524.00		
3N782	113020.00		
3N783	112643.00		
3N783	113021.00		
3N784	112644.00		
3N784	120762.00		
3N785	G130664.00		
3N787	121850.00		
3N789	121851.00		
3N791	121852.00		
3N792	121854.00		
3N793	131562.00		
3N794	131574.00		
3N795	131563.00		
3N796	131576.00		
3N798	131577.00		
3N799	140619.00		
3N817	100375.00		LM24909
3N818	100056.00		LM24911
3N819	100378.00		LM24914
3N820	110111.00		LM24916
3N821	110437.00		LM24919
3N822	113894.00		LM24921
3N823	114420.00		LM24923
3N827	113473.00	E01	
3N828	113019.00	E01	
3N829	113020.00	E01	
3N830	120760.00	E01	
3N831	113021.00	E01	
3N832	120761.00	E01	
3N833	113593.00	E01	
3N834	121040.00		
3N835	113586.00	E01	
3N835	113588.00	E01	
3N836	113589.00	E01	
3N837	113590.00	E01	
3N838	113592.00		

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3N839	G120911.00		
3N849	101646.00		LM24929
3N855	100905.00		
3N856	100960.00		
3N857	111931.00		
3N858	111930.00		
3N859	111935.00		
3N860	111926.00		
3N861	111941.00		
3N863	114626.00		
3N864	114628.00		
3N865	114630.00		
3N866	114632.00		
3N867	114634.00		
3N869	120172.00		
3N870	120081.00		
3N871	115553.00		LM24131
3N872	120035.00		
3N873	110916.00		LM24076
3N874	101767.00	E02	LM24964
3N874	103014.00		
3N875	110044.00		LM24160
3N894	170006.60		LM24199
3N924	171574.60		LM32733
3N925	171575.60		LM32735
3N929	170000.60		LM30273
3VF56	110167.00		LM24582
3VF58	111266.00		
3VF68	098003.00		
3VF69	098005.00		
3VF70	098000.00		
3VF71	098007.00		
3VF72	098009.00		
3VF73	108016.00		
3VF74	108020.00		
3VF75	108021.00		
3VG03	G150165.60		
3VG04	G150167.60		
3VG05	G150102.60		
3VG06	G150079.60		
3VG07	G150080.60		
3VG08	G150081.60		
3VG09	G150082.60		
3VG47	101524.00	C10	
3VG48	101525.00	C10	
3VG49	101526.00	C10	
3VG50	113686.00	C10	
3VG51	110279.00	C10	
3VG52	101527.00	C10	
3VG53	101528.00	C10	
3VG54	101529.00	C10	
3VG55	113687.00	C10	
3VG56	110285.00	C10	
3ZP87	110017.00		LM24608
3ZP89	G120077.00		
3ZP93	191869.00		
3ZP94	191869.00		
3ZP98	174914.00		
3ZP99	174915.00		
3ZR01	174914.00		
3ZR02	174915.00		
4FG52	120554.00		
4FM29	171320.60	C44	LM60026
4FM32	171322.60	C44	LM24195
4FM34	170158.60	C44	LM15878
4FM35	170157.60	C44	LM24209
4FM36	170122.60	C44	LM15892
4FM37	170159.60	C44	LM15861
4FM38	170140.60	C44	LM60036
4FM39	170123.60	C44	LM15675
4FM40	170062.60	C44	LM15890
4FM41	170066.60	C44	LM24208

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4FM42	170068.60	C44	LM15793
4FM43	170033.60	C44	LM15673
4FM44	170007.60	C44	LM24207
4FM45	170001.60	C44	LM15796
4FM46	170035.60	C44	LM13960
4FM47	170011.60	C44	LM15792
4FM49	170037.60	C44	LM60046
4FM50	170015.60	C44	LM13964
4FM52	170039.60	C44	LM19749
4FM53	170019.60	C44	LM13699
4FM54	170096.60	C44	LM13918
4FM55	170041.60	C44	LM60052
4FM56	170023.60	C44	LM19753
4FM57	170097.60	C44	LM19754
4FM58	170043.60	C44	LM14808
4FM59	170027.60	C44	LM14809
4FM60	170027.60	C44 F15	LM14809
4FM62	170045.60	C44	LM14810
4FM63	170031.60	C44	LM14811
4FM64	170031.60	C44 F16	LM14811
4FN11	170222.60	C44	
4FN19	170019.60	C44	LM13699
4FN22	150120.60	C44	
4FN25	150121.60	C44	
4FN28	150239.60	C44	
4FN29	150239.60	C44 F15	
4FN57	120921.00		LM32796
4FN60	120922.00		LM33123
4FN63	120923.00		LM33125
4FN66	171320.60		LM60026
4FN68	131987.00	C01	LM15649
4FN69	171322.60		LM24195
4FN71	170158.60		LM15878
4FN71	140756.00	C01	LM32804
4FN72	140450.00	C01	LM16029
4FN72	170157.60		LM24209
4FN73	170122.60		LM15892
4FN74	170159.60		LM15861
4FN74	140755.00	C01	LM32808
4FN75	140451.00	C01	LM32809
4FN75	170140.60		LM60036
4FN76	170123.60		LM15675
4FN77	170062.60		LM15890
4FN78	170066.60		LM24208
4FN79	170033.60		LM15673
4FN80	170007.60		LM24207
4FN81	131640.00		
4FN82	131604.00	C34	
4FN83	131641.00		
4FN84	131605.00		
4FN97	132044.00		
4HZ72	G120490.00		
4JV45	M1760007.00		
4K018	110013.00		LM24607
4K019	110017.00		LM24608
4K020	110209.00		LM24610
4K021	110018.00		LM24611
4K022	110253.00		LM24513
4K023	111333.00	P02	
4K024	100023.00		LM24569
4K025	100024.00		LM24571
4K026	100025.00		LM24555
4K027	100026.00		
4K028	110220.00		LM24586
4K029	110388.00	C07	LM24587
4K058	111332.00	P03	
4K059	111333.00	P03	
4K060	120374.00	P03	
4K061	120375.00	P03	
4K062	120376.00	P03	
4K065	110108.00		LM24744
4K066	110142.00		LM24745

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4K067	110109.00		LM24532
4K090	110090.00		
4K092	131847.00		
4K096	113766.00	E02 P02	
4K097	113767.00	E02 P02	
4K098	113768.00	E02 P02	
4K099	113769.00	E02 P02	
4K101	101602.00	F01	
4K102	101405.00	F01	
4K103	101585.00	F01	
4K108	100204.00	H01	
4K109	100204.00		
4K110	100205.00		
4K111	100722.00		
4K112	110288.00		
4K113	110289.00		
4K114	110280.00		
4K118	101159.00		
4K119	101120.00		
4K120	101119.00		
4K121	112615.00		
4K123	111323.00		
4K129	110097.00	P02	
4K131	100184.00	C12 P03	LM24465
4K252	191869.00		
4K259	191870.00		
4K260	112527.00		
4K261	112528.00		
4K262	112529.00		
4K263	113300.00		
4K530	100006.00		LM24570
4K531	100014.00		
4K588	100109.00	P01	
4K700	101602.00	P01 F01	
4K708	101405.00	P01 F01	
4K715	101585.00	P01 F01	
4K781	101781.00		
4k811	113930.00		LM24700
4K813	120992.00	C42	
4K814	132083.00		
4K852	100006.00		LM24570
4K853	100014.00		
4K855	100007.00		LM24551
4K856	100015.00		
4K858	100008.00		LM24502
4K859	100016.00		
4K928	100116.00		
4K929	101015.00		
4K999	113583.00		
4KC00	113584.00		
4LW63	G120086.00		
4LW65	G120076.00		
4LW66	G120088.00		
4LW67	121039.00		
4LW68	G120185.00		
4LW69	G120587.00		
4LW71	G120588.00		
4LW72	120761.00	E01	
4LW73	G121191.00		
4LW76	120760.00		
4LW77	114560.00		
4LW78	114562.00		
4LW79	114561.00		
4LW80	114581.00		
4LW81	121165.00		
4LW82	G121166.00		
4LW86	G121286.00		
4LW89	110918.00		LM24095
4LW94	G120014.00		
4LW95	G120015.00		
4LW96	G120016.00		
4LW97	121004.00		LM24875



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4LW98	G120015.00		
4LX01	121003.00		LM24871
4LX02	G120014.00		
4LX04	G120087.00		
4LX05	G120016.00		
4LX06	G120012.00		
4LX07	116595.00		
4LX30	G130008.00		
4LX31	G130027.00		
4LX32	G150157.60	C02	
4LX33	G130326.00		
4LX34	G130328.00		
4LX35	G150165.60		
4M040	111321.00		
4M041	100825.00		LM24443
4M042	100824.00		LM24442
4M196	191891.00		
4M197	191893.00		
4M250	114620.00		
4M251	100803.00		LM2447
4M252	100804.00		LM24448
4M253	111323.00		
4M254	191872.00		
4M255	191871.00		
4M256	191873.00		
4N062	102198.00		
4N063	101637.00		
4N064	101638.00		
4N065	113891.00		
4N066	113892.00		
4N067	113893.00		
4N068	110446.00	E01	
4N069	114176.00		LM24138
4N070	114931.00		
4N071	110448.00		LM24151
4N072	114208.00		
4N073	110112.00		LM24139
4N074	114207.00		
4N075	110192.00		LM24096
4N076	114206.00		
4N077	111273.00		LM24132
4N078	114205.00		
4N079	111630.00		LM24975
4N080	114204.00		
4N082	113029.00		
4N083	113030.00		
4N087	102197.00		
4N583	100446.00		
4N590	114304.00		
4N601	121096.00		
4N605	121093.00		
4N609	121095.00		
4N827	100905.00		
4N865	G158159.00		
4N866	G158000.00		
4N867	G825039.00		
4N868	G158001.00		
4N869	G158140.00		
4N870	G158010.00		
4N871	G825045.00		
4N872	G825047.00		
4N873	G825041.00		
4N874	G825043.00		
4N882	G158158.00		
4N883	G158157.00		
4N913	170159.60		LM15861
4N914	170062.60		LM15890
4N915	170033.60		LM15673
4N916	170035.60		LM13960
4N917	170037.60		LM60046
4N918	170039.60		LM19749
4N919	170041.60		LM60052

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4N920	170160.60		LM13939
4N928	170039.60	S05	LM19749
4N929	170041.60	S05	LM60052
4N940	170159.60		LM15861
4N941	170062.60		LM15890
4N942	170033.60		LM15673
4N943	170035.60		LM13960
4N944	170037.60		LM60046
4N945	170039.60		LM19749
4N946	170041.60		LM60052
4N947	170043.60		LM14808
4N948	170045.60		LM14810
4N949	170140.60		LM60036
4N950	170066.60		LM24208
4N951	170007.60		LM24207
4N952	170011.60		LM15792
4N953	170015.60		LM13964
4N954	170019.60		LM13699
4N955	170023.60		LM19753
4N961	150121.60		
4N962	150120.60		
4N963	150239.60		
4N969	170140.60		LM60036
4N970	170066.60		LM24208
4N971	170007.60		LM24207
4N972	170019.60		LM13699
4N973	170019.60	F14	LM13699
4N974	170023.60		LM19753
4N975	170023.60	F14	LM19753
4N976	170027.60		LM14809
4N977	170027.60	F15	LM14809
4N978	170031.60		LM14811
4N979	170031.60	F16	LM14811
4N980	170087.60		LM19762
4N981	170087.60	F17	LM19762
4N988	170011.60		LM15792
4N989	170015.60		LM13964
4N990	170123.60		LM15675
4N991	170068.60		LM15793
4N992	170001.60		LM15796
4N995	170096.60		LM13918
4N996	170097.60		LM19754
4N997	170098.60		LM13938
4N998	170099.60		LM60060
4RF79	174936.00		
4RF80	174939.00		
4RF82	174937.00		
4RF83	174940.00		
4RF85	174938.00		
4RF86	174941.00		
4RF87	174730.00		
4RF88	174942.00		
4RG15	174914.00		
4RG16	174915.00		
4RG17	174917.00		
4RG18	174918.00		
4RG19	174919.00		
4RG20	174545.00		
4RG21	174551.00		
4RG22	174557.00		
4RG23	174560.00		
4RG24	174569.00		
4RG25	174571.00		
4RG27	174567.00		
4RG28	174593.00		
4RG29	174572.00		
4RG30	174930.00		
4RG31	174931.00		
4RG32	174931.00		
4RG33	174933.00		
4RG34	174914.00		
4RG35	174914.00		

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4RG36	174915.00		
4RG37	174917.00		
4RG38	174918.00		
4RG39	174919.00		
4RG41	174935.00		
4RG43	174935.00		
4RG44	174939.00		
4RR19	G130664.00		
4RR20	G131171.00		
4RR21	G140466.00		
4RX46	G120911.00		
4TC28	G150086.60		
4TC66	G120858.00		
4TC72	G120586.00		
4TD52	121668.00		
4TD79	G150166.60		
4TD80	G150165.60		
4TD81	G150168.60		
4TD82	G150167.60		
4TD83	G150103.60		
4TD84	G150102.60		
4TD85	G150079.60		
4TD86	G150080.60		
4TD87	G150106.60		
4TD88	G150081.60		
4TD89	G150108.60		
4TD90	G150082.60		
4TD91	G150083.60		
4TD92	G150084.60		
4TD93	G150085.60		
4TD94	121670.00		
4TD94	G150086.60		
4TD94	G151690.60		
4TF03	G130662.00		
4TF04	G130663.00		
4TF05	120761.00		
4TF06	120762.00		
4TF07	112644.00		
4TF08	114616.00		
4TF09	131596.00		
4TF10	131597.00		
4TF12	112643.00		
4TF14	G120588.00		
4TF16	G130664.00		
4TF17	G131171.00		
4UX39	115048.00		
4UX39	116707.00		
4UX54	114995.00		
4UX69	115024.00		
4VZ02	121625.00	F04	
4VZ06	116485.00		
4VZ08	116486.00		
4VZ10	116487.00		
4VZ12	116488.00		
4VZ23	114562.00		
4VZ36	116489.00	F04	
4X788	175026.00		
4Z128	M1125074.00		
4Z129	M1125071.00		
4Z130	M1125069.00		
4Z131	M1115029.00		
4Z132	M1115028.00		
4Z133	M1115027.00		
4Z134	M1115026.00		
4Z137	M1135038.00	S07 S10 K86	
4Z140	M1120027.00		
4Z141	M1120013.00		
4Z142	M1110003.00		
4Z143	M1120044.00		
4Z144	M1120040.00		
4Z145	M1110006.00		
4Z378	108023.00		

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4Z379	108262.00		
4Z380	128001.00		
4Z381	M1125073.00		
4Z382	M1125072.00		
4Z383	M1125070.00		
4Z384	107026.00		
4Z385	107027.00		
4Z386	107028.00		
4Z387	107029.00		
4Z388	107030.00		
4Z389	107031.00		
4Z390	107033.00		
4Z391	107034.00		
4Z392	107035.00		
4Z393	107036.00		
4Z394	107037.00		
4Z518	M1145023.00		
4Z519	M1145024.00		
4Z520	M1145025.00		
4Z521	M1145026.00		
4Z522	M1145027.00		
4Z523	M1145028.00		
4Z524	108015.00		
4Z525	108019.00		
4Z528	M1120042.00		
4Z529	M1120046.00		
5K044	101120.00		
5K046	101119.00		
5K109	103023.00		
5K110	101651.00		LM24697
5K115	100001.00		LM24549
5K116	100002.00		LM24552
5K117	100003.00		LM24503
5K118	110001.00		LM24540
5K221	191869.00	F01	
5K254	100016.00		
5K258	191870.00	F01	
5K283	100015.00	C10	
5K286	101782.00	F01	
5K288	100015.00	C10	
5K308	101015.00	C12 P01	
5K339	100024.00		LM24571
5K340	100025.00		LM24555
5K341	102867.00		LM24598
5K341	101766.00		
5K413	191869.00	F01	
5K423	111953.00	C12	
5K431	110004.00	C12	LM24580
5K432	113027.00	C12	
5K435	100026.00		
5K442	110001.00	C12	LM24540
5K443	100001.00	P01	LM24549
5K444	100010.00	C12	
5K445	100001.00		LM24549
5K446	100014.00	C12	
5K448	100014.00		
5K449	100007.00	C12	LM24551
5K450	100002.00	C12	LM24552
5K451	100007.00	C12	LM24551
5K452	100015.00		
5K453	100011.00	C12	
5K453	100064.00		
5K454	100015.00		
5K455	100004.00		LM24553
5K456	100008.00	C12	LM24502
5K457	100008.00	C12	LM24502
5K458	100008.00	C12	LM24502
5K459	100003.00	C12	LM24503
5K459	100065.00		
5K460	100005.00		
5K469	110288.00		
5K470	110289.00		



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5K475	110292.00		
5K476	110293.00		
5K480	120000.00	B22	
5K481	120042.00	B22	LM24687
5K482	131515.00	B23	LM24678
5K483	131534.00	B23	LM24680
5K484	131537.00	B23	LM24682
5K485	120025.00	B22	LM24709
5K486	120026.00	B22	LM24711
5K487	131509.00	B23	LM24713
5K488	131533.00	B23	LM24716
5K489	131538.00	B23	LM24718
5K502	110009.00		LM24546
5K504	100011.00	C32	
5K554	101021.00	C12	
5K556	113643.00	C12	
5K565	110019.00		LM24514
5K565AK	110019.00		LM24514
5K597	100004.00	C10	LM24553
5K599	100588.00		LM24550
5K608	110017.00		LM24608
5K609	110018.00		LM24611
5K617	110002.00		LM24542
5K641	113333.00		LM24515
5K642	110004.00		LM24580
5K644	110005.00		LM24583
5K645	120067.00		LM24677
5K657	100204.00		
5K658	100205.00		
5K659	100722.00		
5K660	100207.00		
5K661	100208.00		
5K662	100723.00		
5K671	101020.00	C12	
5K672	110011.00		LM24496
5K673	110220.00		LM24586
5K675	131534.00		LM24680
5K677	140155.00		LM24683
5K683	100184.00	P03	LM24465
5K684	101433.00	P01	
5K694	100005.00		
5K696	100004.00		LM24553
5K756	100109.00		
5K790	100011.00		
5K801	100012.00		
5K907	191868.00	C12	
5K914	191868.00	C12	
5K915	191868.00	C12	
5K917	191869.00	C12 P01	
5K918	191869.00	C12	
5K921	110004.00		LM24580
5K922	113027.00		
5K923	110005.00		LM24583
5K953	131515.00		LM24678
5K955	100204.00	H01	
5K956	100207.00	H01	
5K960	110142.00		LM24745
5K961	110402.00		LM24534
5K966	131509.00		LM24713
5K967	131533.00		LM24716
5K982	100003.00	C12	LM24503
5K987	100338.00	C12 P03	
5K989	100111.00	P01 C12	
5K991	101015.00	C12 P01	
5K995	120044.00		LM24675
5K995	120004.00		
5K997	120042.00		LM24687
5K999	131534.00		LM24680
5M078	101341.00		
5M255	G120587.00	E02	

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5M256	113586.00		
5M257	113587.00		
5M258	112643.00		
5M259	112524.00		
5M262	115751.00		
5M264	113588.00		
5M265	113589.00		
5M266	113590.00		
5M267	113591.00		
5M268	121039.00		
5M269	113022.00		
5M270	113023.00		
5M271	113024.00		
5M277	113591.00	E01	
5M279	113023.00		
5M280	113593.00	E01	
5M281	120987.00	F07	
5M282	113954.00		
5M283	112427.00	H01	
5M285	114312.00	E02	
5M286	114314.00	E02	
5M287	114316.00	E02	
5M288	113581.00	E02	
5M289	113582.00	E02	
5M290	114313.00	E02	
5M291	114317.00	E02	
5M292	114315.00	E02	
5N004	170123.60		LM15675
5N005	170068.60		LM15793
5N006	170001.60		LM15796
5N010	170222.60		
5N034	171320.60		LM60026
5N036	171320.60		LM60026
5N046	171322.60		LM24195
5N048	171322.60		LM24195
5N055	170158.60		LM15878
5N057	170158.60		LM15878
5N058	170157.60		LM24209
5N060	170157.60		LM24209
5N061	170122.60		LM15892
5N062	170122.60		LM15892
5N073	G825001.00		
5N074	G825004.00		
5N075	G825007.00		
5N076	G825013.00		
5N077	G825002.00		
5N078	G825005.00		
5N079	G825008.00		
5N080	G825010.00		
5N081	G825014.00		
5N085	G825011.00		
5N087	111931.00		
5N088	111930.00		
5N089	111935.00		
5N090	111926.00		
5N091	111941.00		
5N092	111932.00	H03	
5N093	111932.00		
5N094	111940.00		
5N095	111929.00		
5N096	111929.00		
5N097	111938.00		
5N098	111923.00		
5N099	111923.00		
5N102	111942.00		
5N103	111922.00		
5N107	G120489.00		
5N108	G120490.00		
5N111	G120391.00		

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5N169	121556.00	E02	
5N251	170158.60		LM15878
5N252	170122.60		LM15892
5N253	170159.60		LM15861
5N254	170123.60		LM15675
5N255	170062.60		LM15890
5N256	170066.60		LM24208
5N257	170068.60		LM15793
5N258	170033.60		LM15673
5N259	170007.60		LM24207
5N260	170001.60		LM15796
5N261	170035.60		LM13960
5N262	170011.60		LM15792
5N264	170037.60		LM60046
5N265	170015.60		LM13964
5N267	170039.60		LM19749
5N268	170019.60		LM13699
5N269	170096.60		LM13918
5N270	170041.60		LM60052
5N271	170023.60		LM19753
5N272	170097.60		LM19754
5N273	170043.60		LM14808
5N274	170027.60		LM14809
5N275	170098.60		LM13938
5N276	170045.60		LM14810
5N277	170031.60		LM14811
5N278	170099.60		LM60060
5N279	170160.60		LM13939
5N280	170087.60		LM19762
5N290	170002.60		LM13809
5N293	120921.00		LM32796
5N294	120922.00		LM33123
5N295	120923.00		LM33125
5N296	171320.60		LM60026
5N297	171322.60		LM24195
5N298	170157.60		LM24209
5N299	170140.60		LM60036
5N303	131971.00		
5N305	131972.00		
5N307	171574.60	C02	LM32733
5N308	131986.00		LM32734
5N310	171575.60	C02	LM32735
5N311	131988.00		LM32737
5N312	140470.00		LM24194
5N313	170145.60	C02	LM32738
5N314	140753.00		LM32740
5N315	140472.00		LM24193
5N316	170146.60	C02	LM32742
5N317	140754.00		LM32743
5N319	170067.60	C02	LM31244
5N321	170006.60		LM24199
5N322	170000.60		LM30273
5N325	170002.60	C02	LM13809
5N328	170004.60	C02	LM13810
5N331	170147.60		LM13924
5N334	170148.60		LM13927
5N342	170152.60		LM13943
5N345	170155.60		LM13946
5N348	171522.60		LM13817
5N351	171523.60		LM13820
5N691	G158362.00		
5N693	G158319.00		
5N694	G158366.00		
5N696	G158158.00		
5N697	G158157.00		
5N699	G158159.00		
5N700	G158140.00		
5N702	G158000.00		
5N703	G158001.00		
5N705	G825039.00		

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5N706	G158010.00		
5N708	G825046.00		
5N709	G825047.00		
5N711	G825040.00		
5N712	G825041.00		
5N714	G825042.00		
5N715	G825043.00		
5N716	G825044.00		
5N717	G825045.00		
5N725	G158362.00		
5N728	G158319.00		
5N730	G158366.00		
5N746	G825046.00		
5N748	G825040.00		
5N773	120921.00		LM32796
5N774	120922.00		LM33123
5N775	120923.00		LM33125
5N776	171320.60		LM60026
5N777	171322.60		LM24195
5N778	170157.60		LM24209
5N779	170140.60		LM60036
5N780	170066.60		LM24208
5N781	170007.60		LM24207
5N782	170011.60		LM15792
5N783	170015.60		LM13964
5N784	121003.00		LM24871
5N785	121004.00		LM24875
5N786	121005.00		LM24169
5N787	131519.00		LM24222
5N788	131520.00		LM24202
5N789	170142.60	C02	
5N790	170144.60	C02	
5N791	170065.60	C02	LM24190
5N792	170006.60	C02	LM24199
5N793	170009.60	C02	LM29576
5N794	170013.60	C02	LM29577
5N795	120921.00		LM32796
5N798	120922.00		LM33123
5N799	131980.00	C01	LM15648
5N801	120923.00		LM33125
5N802	131981.00	C01	LM15651
5N804	171320.60		LM60026
5N805	171378.60		LM60027
5N807	171322.60		LM24195
5N808	171379.60		LM15883
5N809	170158.60		LM15878
5N810	170157.60		LM24209
5N811	170122.60		LM15892
5N812	170159.60		LM15861
5N813	170140.60		LM60036
5N814	170123.60		LM15675
5N815	170062.60		LM15890
5N816	170066.60		LM24208
5N817	170068.60		LM15793
5N818	170033.60		LM15673
5N819	170007.60		LM24207
5N820	170001.60		LM15796
5N821	170035.60		LM13960
5N822	170011.60		LM15792
5N824	170037.60		LM60046
5N825	170015.60		LM13964
5N827	170039.60		LM19749
5N828	170019.60		LM13699
5N829	170096.60		LM13918
5N830	170041.60		LM60052
5N831	170023.60		LM19753
5N832	170097.60		LM19754
5N833	170043.60		LM14808
5N834	170027.60		LM14809



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5N835	170098.60		LM13938
5N836	170045.60		LM14810
5N837	170031.60		LM14811
5N838	170099.60		LM60060
5N839	170160.60		LM13939
5N840	170087.60		LM19762
5N844	170260.60		LM13705
5N846	170371.60		LM13707
5N849	170352.60		LM16230
5N923	170147.60	C02	LM13924
5N926	170148.60		LM13927
5N934	170152.60		LM13943
5N938	170155.60		LM13946
5N945	171523.60		LM13820
5N967	116728.00	F04	
5U129	112527.00		
5U130	112528.00		
5U131	113583.00		
5U132	112529.00		
5U133	113584.00		
5U134	113300.00		
5U175	111332.00	P03	
5U176	111333.00	P03	
5U192	174920.00		
5U193	174921.00		
5U194	174922.00		
5U195	174923.00		
5U196	174924.00		
5U197	174552.00		
5U198	174558.00		
5U199	174561.00		
5U200	174563.00		
5U201	174565.00		
5U202	112427.00	H01	
5U203	112427.00		
5U204	112428.00		
5U206	G120585.00		
5U210	113473.00		
5U211	113019.00		
5U212	113020.00		
5U213	120760.00		
5U214	113021.00		
5U218	113588.00		
5U219	113586.00		
5U220	112483.00		
5U221	113589.00		
5U222	113587.00		
5U223	112484.00		
5U224	113590.00		
5U225	112524.00		
5U226	G120587.00		
5U227	112522.00		
5U228	113591.00		
5U232	121039.00		
5U264	101776.00		
5U265	114203.00		
5UX55	116709.00		
6A192	M1135069.00	S07 S10	
6A193	M1115024.00		
6A194	M1115025.00		
6A197	M1125131.00	E02	
6FN65	131985.00	C01	LM15646
6K005	101522.00		
6K024	110279.00		
6K026	131537.00		LM24682
6K030	191869.00	F01	
6K034	111074.00	H03 E01	
6K036	111074.00	E01	
6K039	111084.00	C05	

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6K040	110934.00	C05	
6K041	110961.00	C05	
6K045	110908.00	B30	LM24616
6K045	121680.00		
6K085	100064.00	P01	
6K100	140311.00	S04	LM24684
6K108	100014.00		
6K120	100010.00		
6K123	110017.00		LM24608
6K130	140203.00		
6K137	113373.00	C12	
6K138	110363.00		LM24624
6K145	131637.00		LM24715
6K146	131549.00		LM24717
6K148	110000.00		LM24581
6K162	110005.00	C07	LM24583
6K176	140120.00		LM24720
6K177	100956.00		
6K178	100338.00		
6K179	140684.00		LM24719
6K181	102870.00	P03	LM24736
6K182	102864.00	P03	LM24736
6K182	110394.00	P03	
6K186	100015.00		
6K187	100007.00		LM24551
6K188	100008.00		LM24502
6K197	110416.00	P03	LM24740
6K232	110360.00		LM24525
6K236	100003.00	C32	LM24503
6K236	100065.00		
6K237	110000.00		LM24581
6K241	100116.00	P03	
6K243	100116.00	P03	
6K244	101015.00	C12	
6K246	110054.00	C12	
6K247	110278.00		
6K248	110241.00		
6K249	110242.00		
6K250	110281.00		
6K255	110282.00		
6K256	110283.00		
6K266	110243.00		
6K267	110284.00		
6K271	120044.00		LM24675
6K272	120042.00		LM24687
6K284	110361.00		LM24524
6K303	M1145024.00	C29 E01	
6K308	110017.00		LM24608
6K309	110018.00		LM24611
6K311	113938.00		LM24795
6K313	131541.00		LM24796
6K321	110007.00		
6K324	110579.00		
6K328	M1145031.00	C29 C32	
6K329	M1145032.00	C29 C32	
6K330	111075.00	E01	
6K331	M1145033.00	C29 C32	
6K332	M1145034.00	C29 C32	
6K333	111085.00		
6K334	M1145035.00	C29 C32	
6K336	110279.00		
6K337	110285.00		
6K338	110109.00		LM24532
6K342	102862.00		LM24599
6K346	100603.00		
6K347	110478.00		
6K351	107004.00	C10 C32	
6K352	107002.00	C10 C32	
6K353	107005.00	C10 C32	

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6K354	107001.00	C10 C32	
6K358	110108.00		LM24744
6K365	110479.00		
6K366	100010.00		
6K369	107010.00	C10 C32	
6K375	107017.00	C10 C32	
6K376	100012.00		
6K383	107015.00	C10 C32	
6K385	110097.00		
6K388	100802.00		
6K393	120067.00		LM24677
6K396	107012.00	C10 C32	
6K397	100064.00		
6K397	101611.00		
6K403	191872.00	E01	
6K405	191875.00	E01	
6K406	191872.00		
6K406C	191872.00		
6K407	110209.00		LM24610
6K407	120025.00		LM24709
6K408	110064.00		
6K409	110066.00		
6K410	191871.00	E01	
6K411	191875.00		
6K415	100741.00		
6K418	120008.00		
6K419	110253.00		LM24513
6K419	120026.00		LM24711
6K420	120009.00		LM24746
6K422	110006.00		LM24585
6K422	120004.00		
6K424	120003.00		
6K436	110057.00		LM24613
6K438	100109.00	C12	
6K472	110423.00		
6K473	110065.00		
6K477	110025.00		
6K478	110026.00		
6K481	102016.00	P03	LM24705
6K490	100110.00	P03	
6K502	101544.00	C07	LM24504
6K503	113630.00	C07	
6K504	113266.00		
6K506	107014.00	C10 C32	
6K508	110209.00		LM24610
6K510	110253.00		LM24513
6K519	100008.00		LM24502
6K553	191868.00	C12	
6K562	110018.00		LM24611
6K563	111324.00		
6K570	191869.00	C12	
6K571	100204.00	H01	
6K573	100204.00		
6K575	100204.00		
6K583	107016.00	C10 C32	
6K589	191870.00		
6K592	110086.00	P02	LM24790
6K596	113955.00	H01	
6K597	113955.00		
6K598	113956.00		
6K599	113639.00		
6K600	113640.00		
6K610	131542.00		LM24801
6K614	110110.00		
6K619	110087.00	P02	LM24791
6K622	110088.00	P02	LM24792
6K628	140681.00		

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6K630	120107.00		LM24676
6K631	120106.00		LM24806
6K632	131636.00		LM24679
6K633	131616.00		LM24681
6K634	140680.00		
6K635	100205.00		
6K639	110022.00		
6K640	110023.00		LM24612
6K652	110362.00		
6K674	110058.00		LM24614
6K690	100722.00		
6K695	100207.00	H01	
6K699	110167.00		LM24582
6K702	110420.00		LM24622
6K704	100207.00		
6K706	100208.00		
6K709	100723.00		
6K710	113256.00		LM24789
6K714	110086.00		LM24790
6K716	191868.00	P01	
6K717	191869.00		
6K719	110087.00		LM24791
6K727	110088.00		LM24792
6K728	111086.00		
6K734	111074.00	H03 C10	
6K738	111074.00	E01 C10	
6K740	110089.00		LM24794
6K744	191869.00		
6K745	100052.00		
6K748	100053.00		
6K754	110097.00		
6K754	110160.00		
6K756	131534.00		LM24680
6K757	131537.00	C10	LM24682
6K759	100003.00		LM24503
6K760	110054.00		
6K763	191870.00	C12 P01	
6K765	110110.00		
6K765	110161.00		
6K767	111267.00		
6K768	191870.00		
6K773	110232.00		
6K773	110362.00		
6K775	100015.00	C10	
6K779	110222.00		
6K794	120554.00		
6K805	113633.00		
6K806	191872.00		
6K806A	191872.00		
6K807	191871.00		
6K809	191875.00		
6K809C	191875.00		
6K810	111915.00		
6K812	113938.00		LM24795
6K813	131541.00		LM24796
6K814	131542.00		LM24801
6K815	131543.00		LM24798
6K816	140223.00		LM24803
6K817	140209.00		LM24804
6K818	140414.00		LM24805
6K825	120044.00		LM24675
6K826	120042.00		LM24687
6K827	120025.00		LM24709
6K828	120026.00		LM24711
6K829	111075.00		
6K831	110413.00	P03	LM24738



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6K832	110419.00	P03	LM24535
6K837	111086.00		
6K840	113256.00		LM24789
6K841	110086.00		LM24790
6K841	110087.00		LM24791
6K843	110088.00		LM24792
6K847	131543.00		LM24798
6K851	110089.00		LM24794
6K854	131537.00		LM24682
6K862	101524.00		
6K863	101527.00		
6K867	101525.00		
6K868	101528.00		
6K869	111323.00	C32	
6K873	110241.00		
6K874	110242.00		
6K875	110243.00		
6K876	110282.00		
6K877	110283.00		
6K878	110284.00		
6K880	113642.00		
6K881	131542.00		LM24801
6K882	131543.00		LM24798
6K883	140223.00		LM24803
6K883	140203.00		
6K884	140209.00		LM24804
6K884	140130.00		
6K885	140414.00		LM24805
6K886	113938.00		LM24795
6K887	131541.00	S07	LM24796
6K891	101526.00		
6K893	101529.00		
6K894	113686.00		
6K896	113687.00		
6K897	110279.00		
6K899	110285.00		
6K902	101423.00	P02	LM24458
6K912	100115.00	C12	
6K924	100111.00	C12	
6K927	101015.00	P01	
6K937	100012.00		
6K938	110013.00		LM24607
6K949	100003.00		LM24503
6K949	110003.00		LM24543
6K950	113921.00		
6K952	113922.00	P02	
6K958	100338.00		
6K959	113923.00	P02	
6K969	140130.00		
6K970	140414.00		LM24805
6K971	100115.00	C12	
6K972	120879.00		LM24685
6K973	100116.00	C12	
6K974	100023.00		LM24569
6K975	102868.00		LM24733
6K975	102866.00		
6K981	111330.00		
6K994	121569.00		LM24793
6N020	113020.00		
6N021	113021.00		
6N022	113019.00		
6N023	113473.00		
6N024	120760.00		
6N025	120761.00		
6N028	113021.00		
6N029	113020.00		
6N030	113019.00		
6N031	112427.00		
6Z074	M1125050.00	E01 C29	

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6Z076	M1125127.00	E02 C29	
6Z081	M1125128.00	E02 C29	
6Z082	M1125129.00	E02	
6Z083	M1125130.00	E02	
6Z400	107000.00	C10 C32	
6Z401	107003.00	C10 C32	
6Z402	107006.00	C10 C32	
6Z403	107013.00	C10 C32	
6Z404	107025.00		
6Z405	107032.00		
6Z406	108700.00		
6Z407	108701.00		
6Z408	108702.00		
6Z409	108703.00		
6Z410	108704.00		
6Z411	108705.00		
6Z412	108706.00		
6Z413	108707.00		
6Z414	108708.00		
6Z415	108709.00		
6Z416	108710.00		
6Z417	108711.00		
6Z418	108712.00		
6Z791	108502.00		
6Z816	M1145029.00		
6Z817	M1145030.00		
6Z817	M1145031.00		
6Z818	M1145031.00		
6Z819	M1145032.00		
6Z820	M1145033.00		
6Z821	M1145034.00		
6Z822	M1145035.00		
6Z911	M1115002.00	K87 C30	
6Z912	M1115001.00	K87 C30	
6Z913	M1115000.00	K87 C30	
6Z914	M1125002.00	K86 C30	
6Z914	M1125003.00		
6Z915	M1125003.00		
6Z916	M1125005.00	K86 C30	
C1422	110361.00		LM24524
IL501	M1145037.00		
IL503	M1145082.00	S07 S08 C29	
IL504	M1145039.00	S07 S08 C29	
IL505	M1145040.00	S07 S08 C29	

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Competitor Catalog #	LEESON Catalog #	Exception Code(s) To LEESON	Lincoln Catalog #
.00118ES3ED56CFL	110048.00		LM24080
.00136EP3ESS56C	191209.00		
.00136ES3EB65C	110181.00		LM24126
.00136OS1BJPR56C	100722.00		
.00136OS1BJPR56J	100723.00		
.00156OS1BJPR56C	110288.00		
.00156OS1BJPR56J	110292.00		
.00236OS1BJPR56C	110289.00		
.00236OS1BJPR56J	110293.00		
.00336OS1DJPR56C	110280.00		
.00336OS1DJPR56J	110286.00		
.05018OS3EA56C	100601.00		LM24880
.1812EP3EAL71	192012.00		
.1818EP3EAL63	192011.00		
.1836EP3EAL63	192010.00		
.2512EP3EAL71	192022.00		
.2518EP3EAL71	192021.00		
.2518ES1BB56C	102916.00		LM24723
.2518ES3EB56	101646.00		LM24929
.2518OS1BB48	101423.00		LM24458
.2536EP3EAL63	192020.00		
.2536OS3EA56	100027.00		LM24866
.3312OS3EA56	110425.00		LM24868
.3318OS1BC48C	103023.00		
.3318OS1BC56CFL	100024.00		LM24571
.3318OS3EA56CFL	100048.00		LM24910
.3318E1BB56	102931.00		LM24597
.3318EP3ESS56C	191201.00		
.3318EP3ESS56CFL	191202.00		
.3318ES1BB56C	102930.00		LM24600
.3318ES1BPFC48	101253.00		
.3318ES1BPFC48	M090253.00		
.3318ES1BRBPFC4	100804.00		LM24448
.3318ES1RADB56N	101435.00		LM24462
.3318ES1RFDB56	113256.00		LM24789
.3318ES1RFDB56	M002256.00		
.3318ES3EB56	101079.00		LM24107
.3318ES3EB56	101647.00		LM24930
.3318ES3EB56C	102922.00		LM24114
.3318ES3EB56CFL	101769.00		LM24093
.3318OS1BC48	100116.00		
.3318OS1BC56	100006.00		LM24570
.3318OS3EA56	100028.00		LM24152
.3318OS3EA56	100446.00		
.3336OS1BC48	100336.00		LM24467
.3336OS1BC56CFL	100354.00		LM24688
.3336OS3EA56CFL	100375.00		LM24909
.3336ES1BB56C	102929.00		LM24724
.3336ES1BB56CFL	102870.00		LM24736
.3336ES3EB56	102864.00		LM24736
.3336ES3EB56CFL	110446.00		
.3336OS3EA56	101447.00		LM24867
.3336OS3EA56C	100599.00		LM24277
.3336OS3EJPR56J	102197.00		
.3712EP3EAL80	192032.00		
.3718EP3EAL71	192031.00		
.3736EP3EAL71	192030.00		
.5012OS3EB56CFL	110434.00		LM24913
.5012EP3ESS56CFL	191419.00		
.5012ES1BD56CFL	110411.00		LM24737
.5012ES3EB56	110353.00		LM24105
.5012ES3EB56C	110914.00		LM24104
.5012ES3EB56CFL	110163.00		LM24128
.5012OS3EB56	110027.00		LM24146
.5018OS1BC56C	101651.00		LM24697
.5018OS1BC56CFL	100025.00		LM24555
.5018OS3EA56CFL	100049.00		LM24912
.5018EP3ESS56C	191204.00		
.5018EP3ESS56CFL	191205.00		
.5018ES1BB56	102906.00		LM24627
.5018ES1BB56C	102907.00		LM24628
.5018ES1BB56CFL	102862.00		LM24599

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.5018ES1BPFC56	101176.00		
.5018ES1BRBPFC56	111323.00		
.5018ES1RADB56N	101436.00		LM24463
.5018ES1RFDB56	110086.00		LM24790
.5018ES1RFDB56	M009086.00		
.5018ES3EB56	100913.00		LM24073
.5018ES3EB56	100961.00		LM24932
.5018ES3EB56C	102917.00		LM24074
.5018ES3EB56CFL	102860.00		LM24083
.5018OS1BC48	100338.00		
.5018OS1BC56	100007.00		LM24551
.5018OS3EA56	100029.00		LM24098
.5036OS1BC56C	103024.00		
.5036OS1BC56CFL	100356.00		LM24689
.5036EP3ESS56C	191203.00		
.5036ES1BB56	102905.00		LM24706
.5036ES1BB56C	102903.00		LM24725
.5036ES1BJP56J	113637.00		
.5036ES1BJPR56J	113955.00		
.5036ES3EB56	100905.00		
.5036ES3EB56C	114142.00		LM24129
.5036ES3EB56CFL	114176.00		LM24138
.5036ES3EJPR56J	114931.00		
.5036OS1BC48	100184.00		LM24465
.5036OS1BC56	100337.00		
.5036OS1BJP56J	101527.00		
.5036OS1BJP56J	110281.00		
.5036OS1BJPR56C	100204.00		
.5036OS1BJPR56C	101524.00		
.5036OS1BJPR56J	100207.00		
.5036OS3EA56	101448.00		LM24869
.5036OS3EA56C	100600.00		LM24879
.5036OS3EA56CFL	100056.00		LM24911
.5036OS3EJPR56J	102198.00		
.5036OS3EJPR56J	102199.00		
.503ES1BB56CFL	102864.00		LM24736
.5512EP3EAL80	192042.00		
.5518EP3EAL80	192041.00		
.5536EP3EAL71	192040.00		
.7512EP3EAL90S	192200.00		
.7512EP3ESS56C	191415.00		
.7512EP3ESS56CFL	191420.00		
.7512ES1BF56	110400.00		LM24497
.7512ES1BF56CFL	110414.00		LM24739
.7512ES3ED56	121009.00		LM24103
.7512ES3ED56C	116340.00		LM24140
.7512ES3ED56CFL	112378.00		LM24153
.7512OS3EB56CFL	116728.00		
.7512OS3ED56	110028.00		LM24162
.7518OS1BD56C	101650.00		LM24699
.7518OS1BD56CFL	100026.00		
.7518EP3EAL80	192051.00		
.7518EP3ESS56C	191207.00		
.7518EP3ESS56CFL	191208.00		
.7518ES1BB56	110013.00		LM24607
.7518ES1BB56C	110905.00		LM24615
.7518ES1BB56CFL	110057.00		LM24613
.7518ES1BRBPFB56	111324.00		
.7518ES1RADB56N	101437.00		LM24812
.7518ES1RFDB56	110087.00		LM24791
.7518ES1RFDB56	M009087.00		
.7518ES3EB56	110034.00		LM24075
.7518ES3EB56C	110916.00		LM24076
.7518ES3EB56CFL	110047.00		LM24077
.7518OS1BD56	100008.00		LM24502
.7518OS3EB56	100030.00		LM24099
.7518OS3EB56C	100602.00		LM24267
.7518OS3EB56CFL	100050.00		LM24915
.7536OS1BB56C	103025.00		
.7536OS1BB56CFL	100357.00		LM24690
.7536EP3EAL80	192050.00		
.7536EP3ESS56C	191206.00		



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.7536ES1BB56	110276.00		LM24707
.7536ES1BB56C	112135.00		LM24726
.7536ES1BB56CFL	110413.00		LM24738
.7536ES1BJP56J	113638.00		
.7536ES1BJPR56J	113956.00		
.7536ES3EB56	100960.00		
.7536ES3EB56	110313.00		LM24133
.7536ES3EB56C	110915.00		LM24134
.7536ES3EB56CFL	110448.00		LM24151
.7536ES3EJP56J	113028.00		
.7536ES3EJPR56J	114208.00		
.7536OS1BB56	100340.00		LM24674
.7536OS1BJP56J	101528.00		
.7536OS1BJPR56C	100205.00		
.7536OS1BJPR56C	101525.00		
.7536OS1BJPR56J	100208.00		
.7536OS1BJPR56J	110282.00		
.7536OS3EB56	101449.00		LM24870
.7536OS3EB56C	102971.00		LM24882
.7536OS3EB56CFL	100378.00		LM24914
.7536OS3EJPR56J	101637.00		
.7536OS3EJPR56J	101776.00		
000336ES3EF56	114614.00		
000412EP3EAL132M	193308.60		
000418EP3EAL112M	193307.60		
000436EP3EAL112M	193306.60		
000509EP3E254T	G151355.22		LM32803
000736ET3H213T	170196.60		LM16389
00109EP3E182T	G131478.00		LM32662
00112EP3ERSR145TC	G120098.00		LM32846
00112ES3EF56CFL	112379.00		LM24130
00112ET3E145T	171643.60		LM15856
00112ET3E145T	LM32587		
00112ET3H145T	121938.00		
00112OT3E145T	121517.00		LM24872
00118OS1BD56C	113930.00		LM24700
00118OS1BD56CFL	110220.00		LM24586
00118EP3E143JM	G121855.00		
00118EP3E143TC	121936.00		
00118EP3EAL90S	192202.00		
00118EP3ERSR143TC	G120024.00		LM24080
00118EP3ESS143TC	191487.00		
00118EP3ESS56CFL	191213.00		
00118ES1BD56C	110908.00		LM24616
00118ES1BD56CFL	110058.00		LM24614
00118ES1RADD56N	113301.00		LM24814
00118ES1RADD56N	113302.00		LM24813
00118ES1RFD143T	121569.00		LM24793
00118ES1RFDDB56	110088.00		LM24792
00118ES3ED56	110035.00		LM24078
00118ES3ED56	115830.00		
00118ET3E143T	171640.60		LM24102
00118ET3E143T	LM32856		
00118ET3ER143T	120921.00		LM32796
00118ET3ERS143TC	116745.00		
00118ET3ERS143TC	121179.00		LM32822
00118ET3H143T	121937.00		LM24109
00118NP3ESS56CFL	191290.00		
00118OP3E143JM	G121850.00		
00118OS1BD56	110004.00		LM24580
00118OS3EB56	110029.00		LM24111
00118OS3EB56	115827.00		
00118OS3EB56C	110901.00		LM24346
00118OT3E143T	121003.00		LM24871
00118ST3QIE143T	811541.00		
0012ES3EBM145T	G121050.00		
0012ES3EF56	113933.00		LM24159
0013601BD56C	116769.00		
001360S1BD56CFL	110384.00		LM24526
00136EP3EAL80	192060.00		
00136ES1BD56	110059.00		LM24708
00136ES1BD56C	110180.00		LM24727

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00136ES1BD56CFL	110416.00		LM24740
00136ES1BJP56J	113957.00		
00136ES1BJPR56J	113639.00		
00136ES3EB56CFL	116748.00		
00136ES3EJP56J	113029.00		
00136ES3EJPR56J	114207.00		
00136ES3ES3EB56	110145.00		LM24094
00136OS1BCDB56	110160.00		
00136OS1BD56	110360.00		LM24525
00136OS1BJP56J	101529.00		
00136OS1BJPR56C	101526.00		
00136OS1BJPR56J	110283.00		
00136OS3EB56	110426.00		LM24155
00136OS3EB56C	116784.00		LM24884
00136OS3EJPR56J	101638.00		
00136OS3EJPR56J	101775.00		
00136OS3EJPR56J	114203.00		
0013OS3EB56CFL	110111.00		LM24916
00152EP3ERS182T	G131479.00		LM32798
00152EP3ERSR182TC	G132249.00		
00152ES1E182T	131526.00		
00152ET3E182T	131980.00		LM15648
00152ET3H183T	132251.00		LM17059
00152OT3E182T	131971.00		
00156OS1BD56C	116770.00		
00156OS1BD56CFL	110387.00		LM24523
00156EP3E143JM	G121858.00		
00156EP3ERS143TC	121672.00		LM32824
00156EP3ERSR143TC	G120105.00		LM32810
00156EP3ESS143TC	191488.00		
00156EP3ESS56C	191215.00		
00156ES1BD56	110094.00		LM24531
00156ES1BD56C	110909.00		LM24539
00156ES1BD56CFL	110419.00		LM24535
00156ES1BJPR56J	113640.00		
00156ES1E143T	120130.00		LM24710
00156ES3EB56	110745.00		LM24144
00156ES3EB56C	110917.00		LM24135
00156ES3EB56CFL	110192.00		LM24096
00156ES3EJP56J	113030.00		
00156ES3EJPR56J	114206.00		
00156ET3E143T	171642.60		LM15854
00156ET3H143T	121939.00		LM25102
00156OS1BCDD56	110161.00		
00156OS1BD56	110361.00		LM24524
00156OS1BJP56J	113687.00		
00156OS1BJPR56C	113686.00		
00156OS3ED56	110429.00		LM24874
00156OS3ED56C	116785.00		
00156OS3ED56CFL	110437.00		LM24919
00156OS3EJPR56J	113891.00		
00156OT3E143T	121514.00		LM32727
00156ST3QIE143T	811542.00		
00156XP3E143T	121914.00		
00158OS1BF56C	113932.00		LM24701
00158OS1BF56CFL	110388.00		LM24587
00158EP3E145JM	G121856.00		
00158EP3E145JP	G151736.60		
00158EP3ERS145TC	121180.00		LM32825
00158EP3ERSR145TC	G120037.00		LM24149
00158EP3ESS145CFL	G191220.00		
00158EP3ESS56C	191217.00		
00158EP3ESS56CFL	191219.00		
00158ES1BF56	110253.00		LM24513
00158ES1BF56C	110910.00		LM24728
00158ES1BF56CFL	110420.00		LM24622
00158ES1E145T	120026.00		LM24711
00158ES1RFD145T	113938.00		LM24795
00158ES1RFD56H	M009089.00		
00158ES1RFD56H	110089.00		LM24794
00158ES3EBM145T	G120329.00		
00158ES3ED56	110444.00		LM24118

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00158ES3ED56	115829.00		
00158ES3ED56C	110918.00		LM24095
00158ES3ED56CFL	110125.00		LM24112
00158ET3E145T	171646.60		LM25267
00158ET3ERS145TC	116746.00		
00158ET3H145T	121940.00		LM24142
00158OP3E145JP	G121846.00		
00158OS1BF56	110005.00		LM24583
00158OS3ED56	110430.00		LM24117
00158OS3ED56	111309.00		
00158OS3ED56	115825.00		
00158OS3ED56C	110902.00		LM24889
00158OS3ED56CFL	110044.00		LM24160
00158OT3E145T	121004.00		LM24875
00158P3E145JM	G121851.00		
00158ST3QIE145T	811543.00		
00158XP3E145T	121915.00		
0015ES1BJP56J	113958.00		
0015OS1BJPR56J	110284.00		
0018EP3ESS143TCFL	G191214.00		
0018ES1BD56	110209.00		LM24610
0018ES1E143T	120025.00		LM24709
0018ES3EBM143T	G121679.00		
0018ES3ED56C	110912.00		LM24079
0018ESEBM143T	G121679.00		
0018OS3EB56CFL	110043.00		LM24917
0010BNP3ESS56C	191291.00		
00209EP3E213T	G140516.00		LM32799
002118EP3EAL100L	193301.60		
00212EP3E112M	193302.60		
00212EP3ERSR184TC	G131525.00		
00212ES1E213T	140747.00		
00212ES3EBM184T	G131620.00		
00212ET3E184T	131981.00		LM15651
00212ET3ERS184TC	132243.00		LM32830
00212ET3H184T	132252.00		LM17062
00212OT3E184T	131972.00		
00218EP3E145JM	G121857.00		
00218EP3E145JP	G151737.60		
00218EP3ER145TC	G121178.00		
00218EP3ERS145TC	G120038.00		LM24125
00218EP3ESS145TC	191491.00		
00218EP3ESS56C	191223.00		
00218EP3ESS56CFL	191225.00		
00218EP3ESS56CFL	G191226.00		
00218ES1E145T	121507.00		
00218ES1RDF145T	110090.00		
00218ES1RDF182T	131541.00		LM24796
00218ES1RDFG56H	M009090.00		
00218ES3EBM145T	G120330.00		
00218ES3EF56	113026.00		LM24097
00218ES3EF56	115828.00		
00218ES3EF56C	116106.00		LM24081
00218ES3EF56CFL	110451.00		LM24084
00218ET3E145T	171647.60		LM24127
00218ET3ERS145TC	116747.00		
00218ET3ERS145TC	121181.00		LM32829
00218ET3H145T	121942.00		LM24108
00218OP3E145JM	G121852.00		
00218OP3E145JP	G121847.00		
00218OS1BG56	120067.00		LM24677
00218OS3EF56	111310.00		
00218OS3EF56	113025.00		LM24106
00218OS3EF56	115826.00		
00218OS3EF56C	116630.00		LM24345
00218OT3EN145T	121005.00		LM24169
00218ST3QIE145T	811545.00		
00218XP3E145T	121917.00		
0023600S1BF56C	116771.00		
002360S1BF56	110363.00		LM24624
002360S1BF56CFL	110390.00		LM24527
00236EP3AL90L	192209.00		

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00236EP3E145JM	G121859.00		
00236EP3ERSR145TC	G120061.00		LM32678
00236EP3ESS145TC	191490.00		
00236EP3ESS56C	191221.00		
00236ES1BF56	110352.00		LM24534
00236ES1BF56C	113931.00		LM24729
00236ES1BF56CFL	110422.00		LM24530
00236ES1BJP56J	113959.00		
00236ES1BJPR56J	113641.00		
00236ES1E145T	120036.00		LM24712
00236ES3ED56	111916.00		LM24347
00236ES3ED56C	113927.00		LM24121
00236ES3ED56CFL	111273.00		LM24132
00236ES3EJP56J	113031.00		
00236ES3EJPR56J	114205.00		
00236ET3E145T	171648.60		LM15857
00236ET3ERS145TC	121673.00		LM32828
00236ET3H145T	121941.00		LM25103
00236OP3E145JM	G121853.00		
00236OS1BCDD56	110232.00		
00236OS1BJPR56J	110285.00		
00236OS3ED56	113292.00		LM24877
00236OS3ED56C	114218.00		
00236OS3ED56CFL	113894.00		LM24921
00236OS3EJPR56J	113892.00		
00236OS3EJPR56J	114202.00		
00236OT3E145T	121515.00		LM33137
00236ST3QIE145T	811544.00		
00236XP3E145T	121916.00		
00312EP3AL132S	193305.60		
00312EP3ERSR213TC	G131642.00		LM32850
00312ES3EBM213T	G140601.00		
00312ET3E213T	171378.60		LM60027
00312ET3ERS213TC	140834.00		LM32833
00312OT3E213T	171574.60		LM32733
00318EP3E182JM	G131579.00		
00318EP3E182JP	G151739.60		
00318EP3EAL100L	193304.60		
00318EP3ERSR182TC	G131491.00		LM16298
00318ES1DFD184T	131542.00		LM24801
00318ES1E184T	131533.00		LM24716
00318ES3EBM182T	G131613.00		
00318ET3E182T	171320.60		LM60026
00318ET3E182T	LM16644		
00318ET3E182TC	171565.60		LM62017
00318ET3ERS182T	131463.00		LM32741
00318ET3ERS182TC	131504.00		LM16742
00318ET3H182T	132253.00		LM16384
00318OP3E182JM	G131562.00		
00318OP3E182JP	G131882.00		
00318OS1D184T	131534.00		LM24680
00318OT3E182T	131519.00		LM24222
00318ST3QIE182T	811547.00		
00318XP3ER182TC	G825116.00		
00318XT3E182T	825085.00		
00318XT3E182TC	825126.00		
00336EP3E145JM	G121860.00		
00336EP3E182JP	G151738.60		
00336EP3EAL100L	193303.60		
00336EP3ESS182TC	191492.00		
00336ES1E145T	120341.00		LM24714
00336ES1E182T	131637.00		LM24715
00336ES3EF56CFL	111630.00		LM24975
00336ES3EJP56J	113032.00		
00336ES3EJPR56J	114204.00		
00336ET3E182T	131985.00		LM15646
00336ET3ERS182TC	132079.00		LM16741
00336ET3H182T	171624.60	F07	
00336OP3E145JM	G121854.00		
00336OP3E145JP	G121849.00	C56	
00336OS1D182T	131636.00		LM24679
00336OS3EF56	113293.00		LM24878



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00336OS3EF56C	121928.00		LM32770
00336OS3EF56CFL	114420.00		LM24923
00336OS3EJPR56J	113893.00		
00336OS3EJPR56J	114201.00		
00336OT3E145T	121516.00		LM32731
00336ST3QIE182T	811546.00		
00336XT3E182TC	825125.00		
0033OS1BCDF56	110222.00		
0036EP3ER182TC	G131513.00		
0036EP3ERS182TC	114615.00		LM24953
0036ET3E182TC	171564.60		LM62016
00512EP3EAL132M	193311.60		
00512EP3EAL132M	193312.60		
00512EP3ERSR215TC	G140535.00		LM32852
00512ET3E215T	171379.60		LM15883
00512ET3E215T	LM32867		
00512ET3E215TC	171116.60		LM32835
00512OT3E215T	171575.60		LM32735
00518EP3E184JM	G131581.00		
00518EP3E184JP	G151741.60		
00518EP3EAL132S	193310.60		
00518EP3ERSR184TC	G131492.00		LM16299
00518ES1DFD184T	131543.00		LM24798
00518ES1E184T	131538.00		LM24718
00518ES3EBM184T	G131614.00		
00518ET3E184T	171322.60		LM24195
00518ET3E184T	LM16650		
00518ET3E184TC	171566.60		LM62020
00518ET3ERS184T	131464.00		LM15650
00518ET3ES184TC	131502.00		LM16747
00518ET3H184T	132255.00		LM17067
00518OP3E184JM	G131563.00		
00518OP3E184JP	G131883.00	C56	
00518OS1C184T	131537.00		LM24682
00518OT3E184T	131520.00		LM24202
00518ST3QIE184T	811549.00		
00518XP3ER184TC	G825128.00		
00518XT3E184T	825087.00		
00518XT3E184TC	825071.00		
00536EP3E184JM	G131580.00		
00536EP3E184JP	G151740.60		
00536EP3EAL132S	193309.60		
00536EP3ERSR184TC	G131514.00		
00536ES1E184T	131549.00		LM24717
00536ET3E184T	131987.00		LM15649
00536ET3E184T	LM32864		
00536ET3E184TC	171446.60		LM62019
00536ET3ERS184TC	132080.00		LM16745
00536ET3H184T	132254.00		LM16386
00536OP3E182JM	G131574.00		
00536OP3E182JP	G131884.00		
00536OS1CCDG56	111275.00		
00536OS1D184T	131616.00		LM24681
00536OT3E182T	131986.00		LM32734
00536ST3QIE184T	811548.00		
00536XT3E184T	825086.00		
00709EP3E256T	G151356.22		LM32807
00712EP3E160M	193314.60		
00712ET3E254T	170122.60		LM15892
00712ET3ERS254T	LM16656		
00712ETRS3E254TC	170138.60		LM16753
00712OT3E254T	170145.60		LM32738
00718EP3E213JM	G140622.00		
00718EP3E213JP	G151743.60		
00718EP3EAL132M	193313.60		
00718EP3ER213TC	G151346.60		
00718EP3ERSR213TC	G141113.00		LM16300
00718ES1DFD215T	140707.00		LM24799
00718ES1E215T	140120.00		LM24720
00718ES3EBM213T	G140603.00		
00718ET3E213	LM32869		
00718ET3E213T	170157.60		LM24209

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00718ET3E213TC	170165.60		LM16752
00718ET3ERS213T	140450.00		LM16029
00718ET3ERS213TC	140521.00		LM32838
00718ET3H213T	141116.00		LM16391
00718OP3E213JM	G140618.00		
00718OP3E213JP	G140667.00		
00718OS1CCD215T	140155.00		LM24683
00718OT3E213T	140470.00		LM24194
00718OT3E213T	170142.60		
00718ST3QIE213T	811551.00		
00718XT3E213T	825089.00		
00718XT3E213TC	825073.00		
00736EP3E184JM	G131582.00		
00736EP3E213JM	G132027.00		
00736EP3E213JP	G151742.60		
00736EP3ER213TC	G151345.60		LM32852
00736EP3ERSR213TC	G131510.00		
00736ES1E213T	140684.00		LM24719
00736ET3E213T	170158.60		LM15878
00736ET3E313TC	170166.60		LM62085
00736ET3ERS213TC	140770.00		LM16750
00736OP3E184JM	G131576.00		
00736OP3E184JP	G131885.00		
00736OS1C184T	140680.00		
00736OT3E184T	131988.00		LM32737
00736ST3QIE213T	811550.00		
00736XT3E213T	825088.00		
01009EP3E284T	G150282.22		
01012ET3E256T	170123.60		LM15675
01012ET3E356TC	170139.60		LM16759
01012OT3E256T	170146.60		LM32742
01018EP3E215JM	G140623.00		
01018EP3E215JP	G151745.60		
01018EP3ERSR215TC	G140109.00		LM32855
01018ES1DFD215T	140706.00		
01018ES1E215T	140581.00		LM24722
01018ES3EBM215T	G140636.00		
01018ET3E215T	170140.60		LM60036
01018ET3E215T	LM16919		
01018ET3E215TC	170167.60		LM62026
01018ET3ERS215T	140451.00		LM32809
01018ET3ERS215TC	140522.00		LM32841
01018OP3E215JM	G140619.00		
01018OP3E215JP	G140668.00		
01018OT3E215T	140472.00		LM24193
01018OT3E215T	170144.60		
01018ST3QIE215T	811553.00		
01018XT3E215T	825091.00		
01018XT3E215TC	825075.00		
01036EP3E215JM	G141122.00		
01036EP3E215JP	G151744.60		
01036EP3ER215TC	G151347.60		LM32854
01036EP3ERSR215TC	G140690.00		
01036ES1E215T	140685.00		LM24721
01036ET3E215T	170159.60		LM15861
01036ET3E215TC	170168.60		LM62025
01036ET3ERS215TC	140769.00		LM32840
01036ET3H215T	170197.60		LM16394
01036OP3E213JM	G141121.00		
01036OP3E213JP	G140655.00		
01036OT3E213T	140753.00		LM32740
01036ST3QIE215T	811552.00		
01036XT3E215T	825090.00		
0108EP3ER215TC	G151348.60		LM16301
0108ET3H215T	170212.60	C02	LM17073
01112EP3E160L	193317.60		
01118EP3E160M	193316.60		
01136EP3E160M	193315.60		
0118ES1BRBPF56	111267.00		
0118ES1RFD56	M009089.00		
01509EP3E286T	G150261.22		
01512EP3E180L	193320.60		

This information is furnished as a guide only.
Always check specific motor to determine
suitability for direct replacement



Cross Reference

WEG to Leeson and Lincoln

Competitor Catalog #	LEESON Catalog #	Exception Code(s) To LEESON	Lincoln Catalog #
01512ET3E284T	170068.60		LM15793
01512ET3E284T	LM32874		
01512ET3E284TC	170104.60		
01512OT3E284T	170067.60		LM31244
01518EP3E160L	193319.60		
01518EP3E254JM	G151568.60		
01518EP3E254JP	G151747.60		
01518ET3E254T	170066.60		LM24208
01518ET3E254T	LM32873		
01518ET3E254TC	171587.60		LM16762
01518ET3H354T	170116.60		LM16400
01518OP3E254JM	G151361.60	C56	
01518OP3E254JP	G801051.00		
01518OT3E254T	170065.60		LM24190
01518ST3QIE254T	811555.00		
01518XT3E254T	825093.00		
01518XT3E254TC	825077.00		
01536EP3E160M	193318.60		
01536EP3E215JM	G140764.00		
01536EP3E215JP	G151746.60		
01536EP3E254JM	G151567.60		
01536ET3E254C	171586.60		LM16761
01536ET3E254T	170062.60		LM15890
01536ET3H354T	170198.60	C02	LM17075
01536OP3E215JM	G151380.60		
01536OP3E215JP	G140656.00		
01536OT3E215T	170064.60		
01536ST3QIE254T	811554.00		
01536XT3254T	825092.00		
0158EP3ER254TC	G151350.60		LM16828
01812EP3E200L	193323.60		
01818EP3E180M	193322.60		
01836EP3E160L	193321.60		
02009EP3E324T	G150263.22		
02012ET3E286T	170001.60		LM15796
02012ET3E286T	LM32877		
02012OT3E286T	170000.60		LM30273
02018EP3E256JM	G151570.60		
02018EP3E256JP	G151749.60		
02018EP3ER256TC	G151352.60		LM16829
02018ET3E256T	170007.60		LM24207
02018ET3E256T	LM32876		
02018ET3E256TC	171589.60		LM62032
02018OP3E256JM	G151362.60		
02018OP3E256JP	G801052.00		
02018OT3E256T	170006.60		LM24199
02018ST2QIE256T	811557.00		
02018XT3E256T	825095.00		
02018XT3E256TC	825079.00		
02036EP3E254JM	G151569.60		
02036EP3E254JP	G151748.60		
02036EP3ER256TC	G151351.60		
02036ET3E256T	170033.60		LM15673
02036ET3E256TC	171588.60		LM62031
02036OP3E254JM	G151381.60		
02036OP3E254JP	G801056.00		
02036OT3E254T	170032.60		LM32745
02036ST3QIE256T	811556.00		
02036XT3E256T	825094.00		
0208ET3H256T	170117.60		LM15919
02180S1BG56C(W/O MROL)	113281.00		
02212EP3E200L	193326.60		
02218EP3E180L	193325.60		
02236EP3E180M	193324.60		
0236ET2H256T	170199.60		LM16403
02509EP3E326T	150265.22		
02512ET3E324T	170003.60		LM13696
02512OT3E324T	170002.60		LM13809
02518EP3E284JM	G151418.60		
02518EP3E284JP	G151751.60		
02518EP3ER284TC	G151507.60		

Competitor Catalog #	LEESON Catalog #	Exception Code(s) To LEESON	Lincoln Catalog #
02518ET3E284T	170011.60		LM15792
02518ET3E284T	LM32879		
02518ET3E284TC	171591.60		LM62035
02518ET3H384T	170118.60		LM16407
02518OP3E284JM	G801028.00		
02518OP3E384JP	G801053.00		
02518OT3E284T	170009.60		LM29576
02518ST3QIE284T	811559.00		
02518XT3E284TC	825081.00		
02518XT3H284T	825097.00		
02536EP3E256JM	G151417.60		
02536EP3E256JP	G151750.60		
02536ET3E284TS	170035.60		LM13960
02536ET3E284TSC	171590.60		LM32659
02536ET3H284TS	170224.60		LM16406
02536OP3E256JM	G151382.60		
02536OP3E256JP	G801057.00		
02536OT3E256T	170034.60		LM32747
02536ST3QIE284TS	811558.00		
02536XT3E284TS	825096.00		
03012EP3E225S/M	193329.60		
03012ET3E326T	170005.60		LM60048
03012OT3E326T	170004.60		LM13810
03018EP3E286JM	G151422.60		
03018EP3E286JP	G151753.60		
03018EP3ER286TC	G151508.60		
03018ET3E286T	170015.60		LM13964
03018ET3E286T	LM32882		
03018ET3E286TC	171592.60		LM16744
03018ET3H286T	170119.60		LM19595
03018OP3E286JM	G801029.00		
03018OP3E286JP	G801054.00		
03018OT3E286T	170013.60		LM29577
03018P3E200L	193328.60		
03018ST3QIE286T	811561.00		
03018XT3E286T	825099.00		
03018XT3E286TC	825082.00		
03036EP3E200L	193327.60		
03036EP3E284JM	G151420.60		
03036EP3E286JP	G151752.60		
03036ET3E286TC	170108.60		LM16773
03036ET3E286TS	170037.60		LM60046
03036ET3H286TS	170228.60		LM20085
03036OP3E284JM	G801040.00		
03036OP3E284JP	G801058.00		
03036OT3E284TS	170036.60		LM32687
03036ST2QIE286TS	811560.00		
03036XT3E286TS	825098.00		
03712EP3E205S/M	193332.60		
03718EP3E225S/M	193331.60		
03736EPE200L	193330.60		
04012ET3E364T	170096.60		LM13918
04012OT3E364T	170147.60		LM13924
04018EP3E324JM	G151426.60		
04018EP3E324JP	G151755.60		
04018ET3E324T	170019.60		LM13699
04018ET3E324TC	171593.60		LM62041
04018ET3H324T	170120.60	F33	LM14396
04018OP3E324JM	G801030.00		
04018OP3E324JP	G801055.00		
04018OT3E324T	170017.60		LM13811
04018ST3QIE324T	811563.00		
04018XT3E324T	825101.00		
04018XT3E324TC	825083.00		
04036EP3E286JM	G151424.60		
04036EP3E324JP	G151754.60		
04036ET3E324TS	170039.60		LM19749
04036ET3E324TSC	170110.60		LM13725
04036ET3H324TS	170232.60		LM14407
04036OP3E286JM	G801041.00		
04036OP3E286JP	G801059.00		
04036OT3E286TS	170038.60		LM13969



This information is furnished as a guide only. Always check specific motor to determine suitability for direct replacement

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Cross Reference

WEG to Leeson and Lincoln

Competitor Catalog #	LEESON Catalog #	Exception Code(s) To LEESON	Lincoln Catalog #
04036ST3QIE324TS	811562.00		
04036XT3E324TS	825100.00		
047018EP3ER324TC	G151509.60		
05012ET3E365T	170097.60		LM19754
05012ET3E365T	LM32888		
05012OT3E365T	170148.60		LM13927
05018EP3ER326TC	G151510.60		
05018ET3E326T	170023.60		LM19753
05018ET3E326T	LM32887		
05018ET3E326TC	171594.60		LM62044
05018ET3H326T	170121.60		LM14411
05018OT3E326T	170021.60		LM13813
05018ST3QIE326T	811564.00		
05018XT3E326T	825103.00		
05018XT3E326TC	825084.00		
05036EP3E324JP	G151756.60		
05036ET3326TS	LM32685		
05036ET3E326TS	170041.60		LM60052
05036ET3E326TSC	170112.60		LM13727
05036OP3E324JM	G801042.00		
05036OP3E324JP	G801060.00		
05036OT3E324TS	170040.60		LM13812
05036ST3QIE326TS	811564.00		
05036XT3E326TS	825102.00		
06012ET3E404T	170098.60		LM13938
06012OT3E404T	170149.60		LM13944
06016ST3QIE364T	811567.00		
06018ET3E364T	170027.60		LM14809
06018ET3E364TC	171595.60		LM62047
06018ET3H364T	170239.60		LM18369
06018OT3E364T	170025.60		LM14813
06018XT3E364T	825105.00		
06036ET3E364TS	170043.60		LM14808
06036ET3E364TSC	170114.60		LM15562
06036OT3E326TS	170042.60		LM13814
06036ST3QIE364TS	811566.00		
06036XT3E364TS	825104.00		
07512ET3E405T	170099.60		LM60060
07512OT3E405T	170150.60		LM13947
07518ET3E365T	170031.60		LM14811
07518ET3E365T	LM32893		
07518ET3EE365TC	171596.60		LM15567
07518ET3H365T	170244.60		LM18372
07518OT3E365T	170029.60		LM14815
07518ST3QIE365T	811569.00		
07518XT3E365T	825107.00		
07536ET3E365TS	170045.60		LM14810
07536ET3E365TSC	171115.60		LM15566
07536OT3E364TS	170044.60		LM13945
07536ST3QIE365TS	811568.00		
07536XT3E365TS	825106.00		
10012ET3E444T	170256.60		LM13702
10012OT3E444T	170255.60		LM13815
10018ET3E405T	170087.60		LM19762
10018ET3E405T	LM32896		
10018ET3E405TC	171597.60		LM15263
10018ET3H405T	170253.60		LM18292
10018OT3E404T	170152.60		LM13943
10018ST3QIE405T	811571.00		
10018XT3E405T	825109.00		
10036ET3E405T	LM32895		
10036ET3E405TS	170160.60		LM13939
10036OT3E365TS	170151.60		LM14814
10036ST3QIE405TS	811570.00		
10036XT3E495TS	825108.00		
12512ET3E445T	170260.60		LM13705
12512OT3G445T	170259.60		LM13816
12518ET3E444T	170369.60		LM60065
12518ET3G444T	LM32899		
12518OT3E405T	170155.60		LM13946
12518XT3E444T	825111.00		
12536ET3G444TS	171580.60		LM60064

Competitor Catalog #	LEESON Catalog #	Exception Code(s) To LEESON	Lincoln Catalog #
12536OT3E404TS	170154.60		LM13942
12536XT3G444TS	825110.00		
15012ET3G447T	171315.60		LM16231
15012OT3G445T	171576.60		LM13818
15018ET3G445T	170371.60		LM13707
15018ET3G445T	LM32902		
15018OT3G444T	171522.60		LM13817
15018XT3E445T	825113.00		
15036ET3G445TS	171578.60		LM13706
15036OT3G405TS	171449.60		LM13945
15036XT3G4445TS	825112.00		
20012ET3G447T	171316.60		LM60072
20012OT3G447/9T	171577.60		LM16239
20018ET3G447T	170352.60		LM16230
20018ET3G447T	LM32905		
20018OT3G445T	171523.60		LM13820
20036ET3G447TS	171579.60		LM16229
20036OT3G444TS	171573.60		LM13819
250180P3G445T	G151524.60		LM13823
25018ET3G447T	LM14643		
30018OP3G447/9T	G151525.60		
35018OP3G447/9T	G151518.60		LM13829
518OS1CCDOL184T	131622.00		
EP3ESS56C	191414.00		
PCJ105H	MT1052.00		
PCJ107H	MT1072.00		
PCJ110H	MT1102.00		
PCJ115H	MT1152.00		
PCJ120H	MT1202.00		
PCQ105H	MST1052.00		
PCQ107H	MST1072.00		
PCQ110H	MST1102.00		
PCQ120H	MST1202.00		
PCQ150H	MST1152.00		
PCQ120H	MST1202.00		
PCQ150H	MST1152.00		

This information is furnished as a guide only.
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Cross Reference

DC Sub-FHP Gearmotor Reference

PZ SERIES DC GEARMOTORS: Parallel Shaft

Output RPM	F.L. Torque (lb.in.)	Input HP	LEESON Catalog No.	Cross Reference			
				Dayton	Bodine	Baldor	Bison
4	100	1/40	M1115002	6Z911	199	—	011-190-0362
			M1125046	—	—	—	—
10	100	1/20	M1115001	6Z912	198	GPP231108	011-190-0186
			M1125047	—	—	—	—
20	100	1/20	M1115000	6Z913	196	GPP232110	011-190-0096
			M1125048	—	—	GPP233120	—
30	100	1/17	M1125002	6Z914	190	GPP233112	011-190-0072
			M1125037	—	—	—	—
60	56	1/17	M1125003	6Z914	—	GPP233111	011-190-0025
			M1125036	—	—	GPP233121	—
100	36	1/17	M1125004	—	189	GPP12503	011-190-0019
			M1125035	—	—	—	—
150	24	1/17	M1125005	6Z916	188	—	011-190-0013
			M1125034	—	—	—	—
300	10	1/17	M1125006	—	157	—	011-190-0007
			M1125033	—	—	—	—

P300 SERIES DC GEARMOTORS: Parallel Shaft

Output RPM	F.L. Torque (lb.in.)	Input HP	LEESON Catalog No.	Cross Reference			
				Dayton	Bodine	Baldor	Bison
5	353	1/20	M1115024	6A193	—	—	011-336-1369
9	268	1/20	M1115025	6A194	4147	GPP233141	011-336-1208
18	150	1/20	M1115026	4Z134	4146	GPP233140	011-336-1091
24	280	1/8	M1125069	4Z130	4156	—	011-336-2082
31	220	1/8	M1125070	4Z383	4155	GPP12547	011-336-2060
34	82	1/20	M1115027	4Z133	—	GPP233112	011-336-1053
51	130	1/8	M1125071	4Z129	4154	—	011-336-2036
51	55	1/20	M1115028	4Z132	—	GPP233111	011-336-1030
61	113	1/8	M1125072	4Z382	4154	GPP12545	011-336-2028
94	77	1/8	M1125073	4Z381	4153	GPP12544	011-336-2019
109	27	1/20	M1115029	4Z131	—	—	011-336-1017
170	43	1/8	M1125074	4Z128	4151	GPP12542	011-336-2011

P1100 SERIES DC GEARMOTORS: Parallel Shaft

Output RPM	F.L. Torque (lb.in.)	Ratio to 1	Input HP	LEESON Catalog No.	Cross Reference	
					Dayton	Bison
8	1087	212	1/4	108700	6Z406	011-483-4197
12	1030	143	1/4	108701	6Z407	011-483-4131
18	750	95	1/4	108702	6Z408	011-483-4087
42	353	42	1/4	108703	6Z409	011-483-4041
60	238	29	1/4	108704	6Z410	011-483-4028
92	160	19	1/4	108705	6Z411	011-483-4018
135	105	13	1/4	108706	6Z412	011-483-4012
18	1112	95	1/2	108707*	6Z413	011-483-2087
33	882	53	1/2	108708*	6Z414	011-483-2058
42	705	42	1/2	108709*	6Z415	011-483-2041
60	476	29	1/2	108710*	6Z416	011-483-2028
92	320	19	1/2	108711*	6Z417	011-483-2018
135	210	13	1/2	108712*	6Z418	011-483-2012

* Indicates TEFC design, others are TENV

Application Notes:

P1100 DC gearmotors have the same mounting dimensions as Bison 483 gearmotors and Dayton gearmotors. For additional information, see Bulletin 1830.

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RIGHT-ANGLE DC GEARMOTORS

Output RPM	F.L. Torque (lb.in.)	Input HP	LEESON Catalog No.	Cross Reference		
				Dayton	Bodine	Baldor
42	30	1/17	M1115018	—	99	—
62	35	1/17	M1115019	—	98	GP233003~
125	20	1/17	M1115020	—	96	GP233007~
250	11	1/17	M1115021	—	94	—
500	6	1/17	M1115022	—	93	—
42	80	1/8	M1135069	6A192	—	GP7403~
62	70	1/8	M1135038	4Z137	4144	GP7402~
			M1135058	—	6144	—
125	45	1/8	M1135039	—	4142	—
					6142	—
250	25	1/8	M1135040	—	4141	—
500	13	1/8	M1135041	—	4140	—
62	135	1/4	M1135042	1L498	4138	GP7405~
			M1135062	—	—	GP7425~
83	125	1/4	M1135043	1L499	4137	GP7407~
			M1135063	—	—	GP7427~
125	90	1/4	M1135044	—	4136	—
250	50	1/4	M1135045	—	4135	—
500	30	1/4	M1135046	—	4134	—

~Mounting base and output shaft height are not 'drop-in' replacement.

Some Dayton and all Baldor right-angle gearmotors have double output shafts.

PE350 SERIES DC GEARMOTORS: Parallel Shaft

Output RPM	F.L. Torque (lb.in.)	Input HP	LEESON Catalog No.	Baldor	Cross Reference		
					Bodine	Bison	Dayton
7	330	1/8	M1135106	GPP7459	4175	011-348-7215	6ML63
			M1135139	GPP7479	—	—	6ML64
14	341	1/8	M1135107	GPP7462	4174	011-348-7102	6ML65
			M1135140	GPP7478	—	—	6ML66
21	371	1/4	M1135117	GPP7457	4173	—	6ML67
			M1135141	GPP7477	—	—	6ML68
27	305	1/4	M1135115	GPP7461	—	—	6ML69
			M1135142	—	—	—	6ML70
42	280	1/4	M1135108	GPP7456	4185	011-348-7041	6ML71
			M1135143	GPP7476	—	—	6ML72
50	250	1/4	M1135109	GPP7460	—	011-348-7034	6ML73
			M1135144	—	—	—	6ML74
62	220	1/4	M1135110	GPP7455	4184	011-348-7029	6ML75
			M1135145	GPP7475	—	—	6ML51
83	155	1/4	M1135114	GPP7454	4183	—	6ML52
			M1135146	GPP7474	—	—	6ML53
125	100	1/4	M1135111	GPP7453	4182	—	6ML54
			M1135147	GPP7473	—	—	6ML55
165	70	1/4	M1135112	GPP7452	4181	—	6ML56
			M1135148	GPP7472	—	—	6ML57
250	45	1/4	M1135116	GPP7451	4180	—	6ML58
			M1135149	GPP7471	—	—	6ML59
500	25	1/4	M1135113	GPP7450	4179	—	6ML60
			M1135150	GPP7470	—	—	6ML61



This information is furnished as a guide only. Always check specific motor to determine suitability for direct replacement

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PZ SERIES AC GEARMOTORS: Parallel Shaft

Output RPM	F.L. Torque (lb.in.)	Input HP	LEESON Catalog No.	Cross Reference			
				Dayton	Bodine	Baldor	Bison
2	100	1/150	M1125050	6Z074	—	—	016-103-2362
9	100	1/15	M1125127*	6Z076	0449	GCP24114	016-103-2186
19	100	1/15	M1125128*	6Z081	0448	GCP24122	016-103-1096
28	100	1/15	M1125129*	6Z082	0455	GCP24124	—
57	56	1/15	M1125130*	6Z083	0454	GCP24134	016-103-1025
94	36	1/15	M1125131*	6A197	0453	—	016-103-1019
142	24	1/15	M1125132*	—	0452	—	016-103-1013
283	12	1/15	M1125133*	—	0451	—	—

* These motors are TEFC.

P240 SERIES AC GEARMOTORS: Parallel Shaft

Output RPM	F.L. Torque (lb.in.)	Input HP	LEESON Catalog No.	Cross Reference			
				Dayton	Bodine	Baldor	Bison
8	345	1/15	M1145029	6Z816	0476	GCP24004	016-226-6215
15	250	1/15	M1145023	4Z518	0485	—	—
16	391	1/6	M1145030	6Z817	0485	—	016-226-6102
30	135	1/15	M1145024	4Z519	—	—	—
30	295	1/6	M1145031	6Z818	0484	—	016-226-6058
40	219	1/6	M1145032	6Z819	0483	GCP25052	016-226-6036
45	92	1/15	M1145025	4Z520	—	—	—
60	157	1/6	M1145033	6Z820	0482	GCP25054	016-226-6028
70	61	1/15	M1145026	4Z521	—	—	—
90	103	1/6	M1145034	6Z821	0481	GCP25056	016-226-6019
97	43	1/15	M1145027	4Z522	—	—	—
139	30	1/15	M1145028	4Z523	0480	—	—
156	60	1/6	M1145035	6Z822	—	GCP25060	016-226-6011

PE350 SERIES AC GEARMOTORS • SINGLE PHASE: Parallel Shaft

Output RPM	F.L. Torque (lb.in.)	Input HP	LEESON Catalog No.	Cross Reference			
				Baldor	Bodine	Bison	Dayton
5	310	1/12	096000	—	0671	016-246-6254	6MK70
9	341	1/12	096001	—	0669	016-246-6170	6MK71
14	330	1/12	096002	GCP9320	0636*	—	6MK72
19	250	1/12	096003	GCP9322	0635*	016-246-6082	6MK73
29	270	1/6	096004	—	0685	016-246-6058	6MK74
34	250	1/6	096005	—	—	—	6MK75
40	180	1/6	096006	—	0654*	—	6MK76
59	135	1/6	096007	GCP3305	0683	016-246-6028	6MK77
75	90	1/6	096008	—	0681	016-246-6023	6MK78
113	68	1/6	096009	—	0651*	016-246-6015	6MK79
160	45	1/6	096010	GCP3315	0680	016-246-6011	6MK80
340	25	1/6	096011	GCP3320	0679	016-246-6005	6MK81

*Split Phase Type

PE350 HIGH TORQUE • SINGLE PHASE: Cap Start

Output RPM	F.L. Torque (lb.in.)	Input HP	LEESON Catalog No.	Cross Reference			
				Baldor	Bodine	Bison	Dayton
58	320	1/3	096049	GLP3330	0664*	—	—
85	218	1/3	096050	GLP3332	0663*	—	—
173	109	1/3	096051	GLP3336	0662*	—	—
345	55	1/3	096052	GLP3338	0662*	—	—

*Split Phase Type

PE350 SERIES AC GEARMOTORS • THREE PHASE: Parallel Shaft

Output RPM	F.L. Torque (lb.in.)	Input HP	LEESON Catalog No.	Cross Reference			
				Baldor	Bodine	Bison	Dayton
58	320	1/3	096013	GMP3330	0666	017-246-0029	6MK82
85	218	1/3	096014	GMP3332	0642	017-246-0019	6MK83
173	109	1/3	096015	GMP3336	0665	017-246-0011	6MK84
345	55	1/3	096016	GMP3338	—	017-246-0005	6MK85

This information is furnished as a guide only. Always check specific motor to determine suitability for direct replacement.

P1100 SERIES AC GEARMOTORS • SINGLE PHASE: Parallel Shaft

Output RPM	F.L. Torque (lb.in.)	Ratio to 1	Input HP	LEESON Catalog No.	Cross Reference	
					Dayton	Bison*
8	975	212	1/4	107000	6Z400	014-482-4211
12	1030	143	1/4	107004	6K351	014-482-4143
18	800	95	1/4	107003	6Z401	014-482-4095
26	569	66	1/4	107002	6K352	—
59	248	29	1/4	107005	6K353	014-482-4029
133	114	13	1/4	107001	6K354	014-482-4011
18	1089	95	1/3	107006	6Z402	014-482-3095
26	752	66	1/3	107012	6K396	014-482-3066
41	461	42	1/3	107011	2Z842	014-482-3042
59	330	29	1/3	107010	6K369	014-482-3029
91	224	19	1/3	107009	2Z843	014-482-3019
157	125	11	1/3	107008	2Z844	014-482-3011
288	70	6	1/3	107007	2Z845	014-482-3006
22	1105	79	1/2	107013	6Z403	—
41	700	42	1/2	107017	6K375	014-482-2042
59	496	29	1/2	107016	6K383	014-482-2029
91	336	19	1/2	107015	6K383	014-482-2019
133	229	13	1/2	107014	6K506	014-482-2011

* Bison units are split phase design.

P1100 SERIES AC GEARMOTORS • THREE PHASE: Parallel Shaft

Output RPM	F.L. Torque (lb.in.)	Ratio to 1	Input HP	LEESON Catalog No.	Cross Reference	
					Dayton	Bison
18	1089	95	1/3	107025	6Z404	—
26	752	66	1/3	107026	4Z384	—
41	461	42	1/3	107027	4Z385	—
59	330	29	1/3	107028	4Z386	—
91	224	19	1/3	107029	4Z387	—
157	125	11	1/3	107030	4Z388	—
288	70	6	1/3	107031	4Z389	—
22	1105	79	1/2	107032	6Z405	017-482-0095
41	700	42	1/2	107033	4Z390	017-482-0042
59	496	29	1/2	107034	4Z391	017-482-0029
91	336	19	1/2	107035	4Z392	017-482-0019
133	229	13	1/2	107036	4Z393	017-482-0011
288	100	6	1/2	107037	4Z394	017-482-0006

Application Notes:

P1100 AC gearmotors have the same mounting dimensions as Bison 482 gearmotors and Dayton gearmotors. For additional information, see Bulletin 1830.

RIGHT-ANGLE AC GEARMOTORS

Output RPM	F.L. Torque (lb.in.)	Input HP	LEESON Catalog No.	Cross Reference			
				Dayton	Bodine	Baldor	Bison
28	37	1/15	M1125080	IL536	0492	—	—
43	34	1/15	M1125081	IL538	0491	GC24310~	—
58	40	1/15	M1125082	IL535	0487	—	—
85	24	1/15	M1125083	IL534	0490	GC24306~	—
173	14	1/15	M1125084	IL533	0488	GC24302~	—
29	110	1/6	M1145037	IL501	—	—	—
43	113	1/6	M1145038	IL502	0678	GC25020~	—
57	95	1/6	M1145082	IL503	—	GC25015~	026-756-8030
83	75	1/6	M1145039	IL504	0677	GC25010~	026-756-8020
170	43	1/6	M1145040	IL505	0672	—	026-756-8010
340	23	1/6	M1145041	—	0670	—	026-756-8005

~Mounting base and output shaft height are not 'drop-in' replacement.

Some Dayton and all Baldor right-angle gearmotors have double output shafts.

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G801058.00	123	3,344
G801059.00	123	3,686
G801060.00	123	4,896
G825071.00	109	41,240
G825072.00	109	34,078
G825116.00	107	1,738
G825128.00	107	1,991
G825188.00	107	2,792
G825190.00	107	1,859
G825192.00	107	2,762
G825193.00	107	2,931
G825194.00	107	2,909
G825195.00	107	3,708
G825196.00	107	4,345
G825197.00	107	4,981
G825198.00	107	4,954
G850818.00	109	36,349
G850819.00	109	40,055
LM03189	90	7,495
LM03237	90	8,357
LM03285	90	10,659
LM03333	90	11,758
LM03377	90	13,490
LM03425	90	15,590
LM03473	90	22,683
LM03517	90	29,592
LM03564	88	33,209
LM03565	90	34,941
LM03597	90	36,842
LM03614	101	3,784
LM03616	102	3,973
LM03618	101	3,852
LM03623	102	4,006
LM03625	102	4,031
LM03631	101	8,116
LM03632	102	8,162
LM03633	102	8,162
LM03636	101	8,100
LM03637	101	8,100
LM03643	102	8,343
LM03644	102	4,369
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LM03651	101	5,429
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LM03670	101	4,819
LM03673	102	5,592
LM03674	102	5,589
LM03675	102	5,587
LM03681	101	5,766
LM03683	101	5,121
LM03686	102	5,703
LM03687	102	5,891
LM03691	101	6,660
LM03709	101	6,959
LM03711	102	7,983
LM03713	102	7,983
LM03714	102	8,123
LM03715	102	8,124
LM03718	101	11,607
LM03729	101	7,396
LM03730	102	8,953
LM03733	102	8,953
LM03735	102	8,558
LM03736	102	8,558
LM03739	101	11,034
LM03761	101	14,754
LM03763	102	15,582
LM03764	102	16,485
LM03771	102	19,157
LM03773	101	18,005
LM03776	102	18,834
LM03779	101	18,819
LM03780	101	18,819
LM03791	101	9,843
LM03792	102	10,515
LM03794	102	10,510
LM03795	102	11,080
LM03797	101	13,642
LM03799	101	10,960
LM03808	101	11,176
LM03809	101	11,176
LM03810	102	11,845
LM03812	102	11,845
LM03813	102	12,413
LM03815	101	13,723
LM03987	90	3,482
LM03995	90	3,767
LM04003	90	4,063
LM06103	87	1,621
LM06105	87	2,022
LM06113	87	1,726
LM06119	87	2,007
LM06121	87	3,202

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LM06125	87	2,303
LM08476	386	203
LM08478	386	203
LM08582	386	293
LM08664	386	293
LM08665	386	293
LM08709	386	293
LM08720	386	334
LM08738	386	334
LM08827	386	1,006
LM10336	87	566
LM10338	87	774
LM10339	87	735
LM10340	87	1,414
LM10346	90	2,136
LM10347	90	2,231
LM10349	90	2,307
LM10350	90	3,146
LM12429	386	223
LM12430	386	672
LM12454	386	1,085
LM12463	386	1,403
LM12479	386	1,403
LM13556	61	32,812
LM13557	61	28,206
LM13559	62	40,103
LM13560	62	29,489
LM13562	62	44,476
LM13563	62	30,543
LM13564	62	54,325
LM13565	62	40,395
LM13699	59	8,738
LM13701	59	8,631
LM13704	60	18,862
LM13707	61	21,878
LM13709	61	34,298
LM13710	61	27,057
LM13713	61	34,065
LM13715	62	51,582
LM13716	62	37,291
LM13719	62	56,167
LM13721	62	68,595
LM13723	81	8,068
LM13724	82	8,410
LM13726	82	8,936
LM13728	82	8,975
LM13730	83	22,698
LM13731	83	19,836
LM13733	83	28,017
LM13734	83	22,844
LM13736	83	35,128
LM13737	83	28,051
LM13761	48	22,534
LM13762	48	20,784
LM13764	48	26,287
LM13765	48	21,943
LM13767	48	29,755
LM13770	48	33,660
LM13771	48	31,546
LM13795	73	21,978
LM13811	46	7,886
LM13813	46	7,983
LM13814	46	7,273
LM13817	47	15,695
LM13820	47	19,303
LM13825	48	33,194
LM13826	48	27,976
LM13831	48	43,432
LM13832	48	42,147
LM13837	73	8,153
LM13838	73	7,536
LM13839	73	8,157
LM13840	73	7,258
LM13940	60	14,110
LM13942	47	12,899
LM13943	47	12,111
LM13960	58	4,516
LM13961	58	3,840
LM13964	58	4,408
LM13969	46	7,435
LM14398	225	6,568
LM14399	225	5,589
LM14402	231	4,738
LM14405	231	5,061
LM14408	225	8,450
LM14410	225	7,596
LM14535	73	5,614
LM14549	229	5,526
LM14550	229	5,331
LM14552	229	6,922
LM14553	229	5,951
LM14561	229	6,337
LM14562	229	6,105
LM14564	229	7,947
LM14565	229	7,257

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LM14811	60	11,680
LM14812	47	11,745
LM14813	46	10,804
LM14814	47	10,621
LM14815	47	10,997
LM15078	226	17,320
LM15079	226	16,473
LM15081	226	27,164
LM15082	226	23,632
LM15084	226	21,435
LM15085	226	19,108
LM15087	227	32,812
LM15089	227	29,489
LM15092	227	28,206
LM15098	227	40,104
LM15119	226	21,868
LM15121	226	20,394
LM15122	226	34,298
LM15123	226	28,545
LM15126	226	23,712
LM15129	227	37,291
LM15130	227	34,065
LM15138	227	51,582
LM15159	48	25,251
LM15263	83	14,897
LM15563	82	11,786
LM15565	82	9,878
LM15567	82	12,325
LM15568	82	11,836
LM15569	73	11,582
LM15570	73	10,927
LM15572	73	11,899
LM15646	55	1,327
LM15647	55	1,067
LM15648	54	1,079
LM15649	56	1,486
LM15650	56	1,187
LM15651	55	1,103
LM15670	57	2,551
LM15671	57	2,256
LM15672	56	2,701
LM15673	57	2,974
LM15674	57	2,831
LM15675	57	3,174
LM15869	56	1,486
LM15919	225	2,420
LM15921	230	10,764
LM16029	56	1,765
LM16030	55	1,585
LM16031	57	1,861
LM16032	57	1,872
LM16033	56	1,838
LM16222	61	34,451
LM16226	48	31,246
LM16237	48	39,453
LM16239	47	21,642
LM16298	76	895
LM16299	76	989
LM16301	76	1,590
LM16302	77	2,392
LM16383	224	859
LM16384	224	774
LM16387	224	894
LM16388	224	1,621
LM16391	224	1,436
LM16395	224	1,588
LM16400	225	2,750
LM16407	225	3,438
LM16572	386	286
LM16574	386	834
LM16577	386	1,175
LM16593	228	973
LM16594	228	1,714
LM16595	229	1,421
LM16596	229	1,404
LM16598	229	1,854
LM16599	229	1,488
LM16601	229	2,486
LM16602	229	2,162
LM16604	229	2,701
LM16605	229	2,544
LM16607	229	3,650
LM16608	229	3,448
LM16644	100	1,208
LM16650	100	1,321
LM16719	83	17,723
LM16728	79	1,069
LM16739	79	1,182
LM16741	80	1,186
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LM16744	80	1,681
LM16745	80	1,540
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LM16757	81	1,926
LM16759	81	3,296
LM16762	81	2,714
LM16767	81	2,950
LM16769	81	5,866
LM16772	81	4,010
LM16774	82	5,211
LM16824	76	1,028
LM16919	100	2,177
LM17186	229	1,624
LM17187	229	1,566
LM17189	229	2,028
LM17190	229	1,953
LM17192	229	2,674
LM17193	229	2,409
LM17195	229	3,159
LM17196	229	2,991
LM17198	229	4,425
LM17199	229	4,010
LM17382	73	5,736
LM17384	73	7,497
LM17388	73	15,236
LM17389	73	12,271
LM17390	73	17,932
LM17953	62	29,489
LM18290	226	14,221
LM18292	226	12,324
LM18298	232	8,261
LM18306	232	9,512
LM18347	62	29,489
LM18366	226	8,087
LM18367	226	9,814
LM18370	226	9,420
LM18372	226	10,201
LM18373	226	10,394
LM18376	226	12,137
LM18378	232	7,132
LM18384	232	7,774
LM18864	386	203
LM18865	386	203
LM18866	386	293
LM18867	386	334
LM18868	386	738
LM18869	386	334
LM18870	386	445
LM18871	386	1,213
LM18872	386	159
LM18873	386	203
LM18874	386	203
LM18875	386	203
LM18876	386	293
LM19530	114	11,617
LM19532	114	11,615
LM19534	114	22,114
LM19535	114	20,796
LM19577	62	50,351
LM19595	225	3,867
LM19596	229	4,260
LM19597	229	4,080
LM19600	230	8,628
LM19602	230	10,958
LM19603	230	8,663
LM19605	230	14,890
LM19606	230	13,010
LM20029	114	5,137
LM20030	114	7,509
LM20037	230	9,982
LM20038	230	10,399
LM20040	230	12,702
LM20041	230	12,595
LM20043	230	17,723
LM20044	230	15,841
LM20087	229	4,942
LM20088	229	5,211
LM20116	380	370
LM20389	113	3,646
LM20390	113	3,044
LM20391	113	2,050
LM20392	113	1,907
LM20393	113	1,847
LM20394	113	2,817
LM20655	148	1,051
LM20657	149	1,105
LM20658	148	1,090
LM20660	149	1,142
LM20662	149	1,192
LM20664	149	1,245
LM20666	149	1,510
LM20669	149	1,192
LM20670	148	1,189
LM20672	149	1,245
LM20673	148	1,423

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LM20679	148	2,112
LM20707	113	1,385
LM20708	113	1,251
LM20709	113	1,493
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LM21033	149	1,027
LM21034	148	1,034
LM21036	149	1,088
LM21037	148	1,124
LM21039	149	1,177
LM21040	148	1,199
LM21042	149	1,253
LM21045	149	1,388
LM21046	148	1,247
LM21048	149	1,297
LM21049	148	1,390
LM21051	149	1,441
LM21052	148	1,660
LM21055	148	2,349
LM21061	148	1,141
LM21062	148	1,189
LM21063	148	1,458
LM21084	113	1,020
LM21085	113	1,124
LM21086	113	1,535
LM21087	113	2,211
LM21088	114	3,830
LM21089	114	4,913
LM21091	114	7,738
LM21092	114	9,762
LM21093	114	15,263
LM21094	114	20,171
LM21118	93	5,611
LM21121	93	7,244
LM21124	93	10,164
LM21127	93	10,205
LM21148	93	726
LM21151	93	758
LM21153	93	800
LM21157	93	907
LM21159	93	1,160
LM21162	93	1,331
LM21165	93	1,565
LM21168	93	2,234
LM21171	93	2,472
LM21180	93	5,023
LM21189	91	1,093
LM21190	91	1,009
LM21192	91	1,271
LM21193	91	1,123
LM21195	91	1,718
LM21196	91	1,593
LM21198	91	1,880
LM21199	91	1,750
LM21201	91	2,510
LM21202	91	2,379
LM21204	91	2,880
LM21205	91	2,756
LM21208	91	3,825
LM21211	91	4,234
LM21214	91	5,839
LM21217	91	6,392
LM21220	91	8,535
LM21223	91	10,842
LM21227	91	14,044
LM21230	91	17,447
LM21233	91	20,183
LM21236	91	24,010
LM21238	91	28,894
LM21239	91	31,272
LM21244	91	30,875
LM21378	113	1,110
LM21379	113	1,180
LM21380	113	1,189
LM21381	113	1,357
LM21382	113	1,439
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LM21384	113	2,505
LM21385	113	3,003
LM21386	114	6,428
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LM21391	114	14,422
LM21392	114	17,788
LM21665	113	4,180
LM21799	114	9,762
LM21807	114	4,913
LM21810	114	5,925
LM21826	115	1,099
LM21827	115	1,189
LM21828	115	1,257
LM21829	115	1,442
LM21831	115	1,207
LM21832	115	1,330

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LM21836	115	1,611
LM21837	115	1,530
LM21839	115	1,938
LM21840	115	2,000
LM21841	115	2,142
LM21842	115	2,332
LM21843	115	2,629
LM21844	115	2,971
LM21845	115	2,937
LM21846	115	3,166
LM21848	115	4,393
LM21850	115	4,040
LM21851	115	5,346
LM21853	115	6,778
LM21854	115	6,366
LM21856	115	7,859
LM21857	115	7,701
LM21859	115	10,466
LM21862	115	12,182
LM21866	115	15,094
LM21869	115	18,618
LM21872	115	22,941
LM21877	115	16,094
LM21880	115	6,278
LM21883	115	8,302
LM21886	115	10,328
LM21890	115	12,283
LM21893	115	5,268
LM21896	115	21,000
LM22093	386	203
LM22188	386	203
LM22423	148	2,924
LM22426	148	3,488
LM22435	148	2,688
LM22438	148	3,071
LM22645	92	634
LM22648	92	669
LM22649	92	723
LM22653	92	650
LM22654	91	682
LM22655	92	734
LM22657	92	862
LM22659	92	734
LM22660	91	703
LM22661	92	754
LM22664	91	775
LM22665	92	827
LM22758	48	21,943
LM22759	48	31,546
LM22826	92	1,174
LM22827	92	1,090
LM22830	92	1,207
LM22833	92	1,510
LM22836	92	1,750
LM22839	92	2,503
LM22841	92	2,881
LM23781	114	1,189
LM23782	114	1,330
LM23783	114	1,266
LM23784	114	2,629
LM23854	114	1,758
LM24057	376	535
LM24058	376	806
LM24059	376	1,061
LM24060	376	1,283
LM24061	376	1,283
LM24062	376	370
LM24063	376	481
LM24064	376	806
LM24065	376	1,061
LM24066	376	1,159
LM24067	376	1,159
LM24068	376	1,283
LM24069	376	1,283
LM24072	114	2,181
LM24073	53	454
LM24074	78	504
LM24075	53	488
LM24076	78	538
LM24077	74	521
LM24078	54	505
LM24079	78	557
LM24080	75	556
LM24081	79	598
LM24083	74	502
LM24084	75	629
LM24093	74	412
LM24094	54	534
LM24095	79	589
LM24096	75	590
LM24097	55	570
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LM24107	53	397
LM24108	223	577
LM24109	223	574
LM24111	43	459
LM24112	75	590
LM24114	78	448
LM24117	44	488
LM24118	54	537
LM24121	79	708
LM24125	75	697
LM24126	78	586
LM24127	55	915
LM24128	74	677
LM24129	78	463
LM24130	75	698
LM24132	75	673
LM24133	53	454
LM24134	78	508
LM24135	79	637
LM24136	53	673
LM24137	228	630
LM24139	75	538
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LM24142	223	549
LM24144	54	586
LM24148	75	642
LM24149	75	605
LM24151	74	454
LM24152	43	346
LM24154	223	461
LM24155	43	480
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LM24199	45, 49, 244	2,464
LM24202	45, 49, 244	910
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LM24209	56	1,507
LM24219	231	1,686
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LM24227	231	604
LM24231	231	1,166
LM24232	231	2,118
LM24234	70	779
LM24258	111	669
LM24259	112	726
LM24262	112	799
LM24264	87	652
LM24265	78	1,173
LM24266	111	741
LM24267	71	495
LM24268	111	877
LM24271	112	641
LM24273	78	724
LM24276	53	1,121
LM24277	71	371
LM24291	53	979
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LM24345	71	639
LM24346	71	510
LM24349	78	731
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LM24503	17	600
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LM24530	35	673
LM24531	26	688
LM24532	26	807
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LM24550	17	435
LM24551	17	421
LM24552	17	492
LM24570	17	383
LM24571	31	417
LM24580	18	567
LM24582	18	666
LM24583	18	738
LM24597	25	411
LM24598	34	417
LM24599	34	495
LM24600	36	455
LM24602	25	469
LM24604	25	551
LM24606	25	481
LM24607	26	557
LM24610	26	643
LM24613	34	528
LM24614	35	564
LM24615	36	662
LM24616	36	748
LM24622	35	598
LM24627	25	469
LM24628	36	552
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LM24682	19, 21, 243	1,097
LM24683	19, 21, 243	1,609
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LM24706	25	403
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LM24710	26	688
LM24711	26	726
LM24712	27	899
LM24713	27	1,030
LM24714	27	968
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LM24719	27	1,968
LM24720	27	1,900
LM24721	27	2,415
LM24722	27	2,466
LM24723	36	430
LM24725	36	431
LM24726	36	485
LM24727	36	558
LM24728	36	884
LM24729	37	952
LM24731	37	1,199
LM24733	34	384
LM24734	34	382
LM24735	34	637
LM24736	34	434
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LM24740	35	538
LM24743	25	431
LM24744	26	477
LM24745	26	590
LM24746	26	835
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LM24778	189, 214	1,199
LM24780	189, 214	1,962
LM24781	189	1,589
LM24782	189, 214	2,492
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LM24788	197, 218	749
LM24789	183	469
LM24790	183	551
LM24791	183	648
LM24792	183	740
LM24793	183	757
LM24794	183	835
LM24795	183	835
LM24797	183	1,280
LM24798	183	1,674
LM24799	183	2,064
LM24802	185	1,615
LM24803	185	2,006

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LM24812	192	666
LM24813	192	829
LM24814	192	1,394
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LM24858	74	629
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LM24869	43	351
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LM24875	43, 49, 244	563
LM24877	44	629
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LM24889	71	538
LM24894	72	651
LM24914	69	421
LM24915	69	473
LM24917	69	510
LM24921	70	650
LM24923	70	694
LM24929	53	355
LM24946	78	405
LM24949	78	1,030
LM24964	74	381
LM24965	74	1,030
LM24967	74	1,173
LM25045	228	586
LM25046	228	565
LM25047	228	597
LM25048	228	597
LM25049	228	708
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LM25051	228	590
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LM25058	231	480
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LM25071	231	968
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LM25129	111	685
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LM25139	112	664
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LM25738	376	155
LM25739	379	155
LM25740	376	199
LM25962	92	904
LM25991	91	831
LM26008	92	849
LM26081	92	843
LM26097	91	789
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LM26109	90	3,146
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LM26359	87	1,432
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LM27576	379	370
LM27681	379	267
LM27884	102	5,891
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LM27976	258	7,713
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LM28879	254, 256	2,024
LM28880	254, 256	2,024
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LM28903	255, 256	4,610

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LM30757	260	7,623
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LM30763	260	7,091
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LM31463	90	4,829
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LM32285	379	847
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LM32288	379	1,115
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LM32293	376, 379	1,271
LM32396	387	179
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LM32398	387	179
LM32399	387	209
LM32401	387	238
LM32402	387	298
LM32403	387	533
LM32405	387	418
LM32407	387	477
LM32409	387	711
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LM32674	46	7,983
LM32675	233	2,199
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LM32679	61	21,878
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LM32682	46	7,273
LM32686	59	8,738
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LM32749	46	3,695
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LM32758	47	12,899
LM32759	47	12,250
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LM32796	54	733
LM32798	54	1,477
LM32799	55	1,752
LM32802	56	1,583
LM32803	56	2,607
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LM32809	57, 64, 244	1,460
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LM32815	59	8,631
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LM32841	81	1,553
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LM32844	83	19,836
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LM32856	100	893
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LM33067	233	3,640
LM33070	233	4,571
LM33072	233	6,236
LM33074	233	6,520
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LM33099	234	1,848
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LM33125	55	693
LM33171	224	2,630
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LM33485	80	1,042
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LM33489	76	941
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LM60067	61	21,296
LM60068	61	21,382
LM60069	61	23,739

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LM62019	80	1,188
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LM62038	82	4,840
LM62041	82	6,257
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LM62053	83	15,356
LM62085	80	1,398
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LM80043	133	26,385
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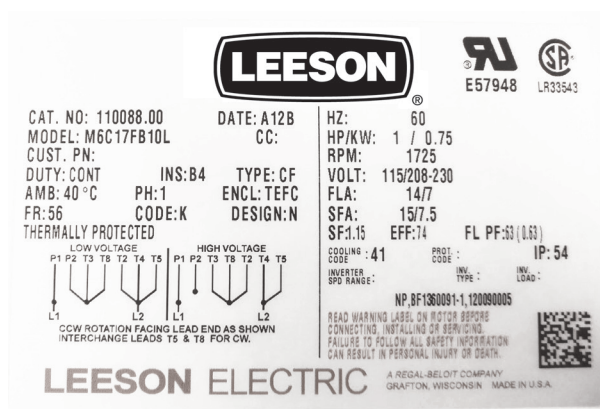
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M1135244.00	319	795
M1135245.00	319	795
M1135246.00	319	754
M1135249.00	323	677
M1135250.00	323	677
M1135251.00	323	724
M1135252.00	323	724
M1135284.00	325	705
M1135285.00	325	705
M1135286.00	325	716
M1135287.00	325	716
M1135288.00	325	716
M1135289.00	325	716
M1135290.00	325	716
M1135291.00	325	678
M1135292.00	325	678
M1135293.00	325	738
M1135294.00	325	738
M1135295.00	325	738
M1135296.00	325	738
M1135297.00	325	738
M1140171.00	94	352
M1140172.00	94	408
M1140173.00	94	380
M1145023.00	335	799
M1145024.00	335	726
M1145025.00	335	726
M1145026.00	335	726
M1145027.00	335	726
M1145028.00	335	726
M1145029.00	335	799
M1145030.00	335	868
M1145031.00	335	868
M1145032.00	335	868
M1145033.00	335	796
M1145034.00	335	796
M1145035.00	335	796
M1145037.00	340	894
M1145038.00	340	894
M1145039.00	340	894
M1145040.00	340	894
M1145041.00	340	894
M1145082.00	340	894
M1145122.00	344	692
M1145123.00	344	692
M1145124.00	344	640
M1145125.00	344	640
M1145126.00	344	640
M1145127.00	345	846
M1145128.00	345	846
M1145129.00	345	846
M1145130.00	345	846
M1145131.00	345	846

Leeson Catalog Number Index

Motors, Sub-FHP Gearmotors, Drives and Accessories

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M1145138.00	158, 335	910
M1145139.00	158, 335	910
M1145140.00	158, 335	835
M1145141.00	159, 341	764
M1145142.00	159, 341	938
M1145143.00	159, 341	938
M1145144.00	158, 335	910
M1145145.00	158, 335	910
M1145146.00	159, 341	938
M1145147.00	159, 341	938
M1740005.00	349	418
M1740006.00	349	564
M1740007.00	349	232
M1740008.00	349	362
M1740009.00	349	270
M1760000.00	342	42
M1760007.00	342	42
M1760012.00	342	44
M1760021.00	342	42
M900195.00	207	240
M900196.00	207	282
M900197.00	207	369
M900277.00	207	462
M900599.00	207	577

Nameplate data is the critical first step in determining motor replacement. Much of the information needed can generally be obtained from the nameplate. Record all nameplate information; it can save time and confusion.



Important Nameplate Data

- Catalog number.
- Motor model number.
- Frame. Designates NEMA frame size dimensions
- Type (classification varies from manufacturer to manufacturer).
- Phase - single, three or direct current.
- HP - horsepower at rated full load speed.
- HZ - frequency in cycles per second, usually 60 HZ in United States, 50 HZ overseas.
- RPM - revolutions per minute.
- Voltage.
- Amperage (F.L.A.) - full load motor current.
- Maximum ambient temperature in centigrade - usually +40°C (104°F).
- Duty - most motors are rated continuous. Some applications, however, may use motors designed for intermittent, special, 15, 30 or 60 minute duty.
- NEMA electrical design - B, C and D are most common. Design letter represents the torque characteristics of the motor.
- Insulation class - standard insulation classes are B, F, and H. NEMA has established safe maximum operating temperatures for motors. This maximum temperature is the sum of the maximum ambient and maximum rise at maximum ambient.
- Code - indicates locked rotor kVA per horsepower.
- Service factor - a measure of continuous overload capacity.
- Inverter Speed range information - 3-Phase motors
- Manufacturer Agency Approval information - UL, CSA, CE etc....

MOTOR SELECTION

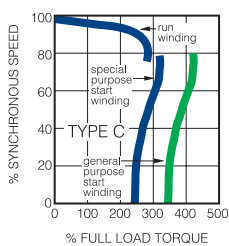
Electric motors are the workhorses of industry. Many applications exist where more than one motor can be used and/or the exact replacement is not available. LEESON makes every effort to maximize interchangeability, mechanically and electrically, where compromise does not interfere with reliability and safety standards. If you are not certain of a replacement condition, contact any LEESON Authorized Distributor or the LEESON District Sales Office.

SELECTION

Identifying a motor for replacement purposes or specifying a motor for new applications can be done easily if the following information is known:

1. Nameplate Data
2. Motor Type
3. Electrical and Performance Characteristics
4. Mechanical Construction

TYPICAL SPEED TORQUE CURVES



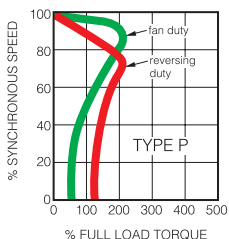
Capacitor Start/Induction Run

A single phase general purpose design, with an electrolytic capacitor in series with the start winding, offering maximum starting torque per ampere.

A centrifugal switch removes the auxiliary winding and capacitor when the motor approaches full load speed. The design is a heavy-duty unit which has approximately 300% (of full load) starting torque. Common applications include compressors, pumps, conveyors and other "hard-to-start" applications.

Capacitor Start/Capacitor Run

This design has two capacitors of different values. A centrifugal switch is used to remove the electrolytic capacitor when the motor approaches full load speed. A second run capacitor remains in series with the auxiliary winding during full load operation. This type of design has lower full-load amps as a result of the run capacitor and is consequently used on most higher horsepower single phase motors.



Permanent Split Capacitor (PSC)

This design has an auxiliary winding with a "run" capacitor, but unlike the capacitor start/induction run motor, the capacitor and auxiliary winding remain in the circuit under running conditions. (There is no centrifugal switch on this type motor.) A permanent split capacitor design has low starting torque and low starting current. They are generally used on direct-drive fans and blowers. They can also be designed for higher starting torque and intermittent applications, where rapid reversing is desired.

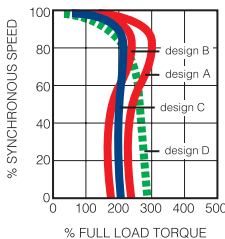
NAMEPLATE DATA

Nameplate data is the most important first step in determining motor replacement. Much of the information needed can generally be obtained from the nameplate of the motor to be replaced. Take time to record all the nameplate information because it can save time, avoid confusion and MISAPPLICATION.

MOTOR TYPE

Alternating current (AC) induction motors are divided into two electrical categories, based on power source—single phase and polyphase (three phase). Direct current (DC) motors are used in applications where precise speed control is required or when battery or generated direct current is the available power source.

Three Phase or Polyphase

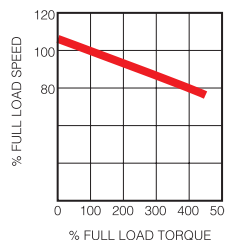


General purpose three phase motors have different electrical design classifications as defined by NEMA. NEMA Design A and B motors are of normal starting torque with normal starting current. NEMA Design C motors have higher starting torque with normal starting current. All three types have slip of less than 5%. ("Slip" being a term which expresses, as a percentage, the difference between synchronous motor speed and full load motor speed, for example, 1800 rpm synchronous versus a full load speed of

1740 rpm.

NEMA's Design B and C standards are minimum performance standards. In practice, some manufacturers (including LEESON) build small integral HP Design B motors with locked rotor and breakdown torque levels equaling NEMA Design C standards.

NEMA T frame motors 1 through 200 HP covered by EPC (identified with a "G" catalog prefix) are labeled Design B, exceed NEMA Design B performance levels, and have efficiencies equal to EPC mandated levels. EPC exempt three phase, base-mounted motors are labeled Design C and have performance characteristics meeting NEMA's Design C standards, with standard motor efficiencies. Motors 250 HP and larger are exempt from EPC legislation.



Permanent Magnet DC

This design has linear speed/torque characteristics over the entire speed range. SCR rated motor features include high starting torque for heavy load applications and dynamic braking, variable speed and reversing capabilities. Designs are also available for use on generated low voltage DC power or remote applications requiring battery power.

ELECTRICAL AND PERFORMANCE CHARACTERISTICS

One of the best ways to guarantee economical performance and long motor life is to make sure your motors operate at nameplate voltage. Applying too high a voltage may reduce the motor's efficiency and increase operating temperatures. The net result is shorter motor life.

Under-voltage can also shorten motor life. Operating on too low a voltage reduces the motor's effective horsepower. The motor will attempt to drive the load it was intended to drive, become overloaded, draw more current than normal, and overheat. Again, the result will be premature failure.

ENCLOSURES AND ENVIRONMENT

DRIP-PROOF: Venting in end frame and/or main frame located to prevent drops of liquid from falling into motor within a 15° angle from vertical. Designed for use in areas that are reasonably dry, clean, and well ventilated (usually indoors). If installed outdoors, it is recommended that the motor be protected with a cover that does not restrict the flow of air to the motor.

TOTALLY ENCLOSED AIR OVER (TEAO): Dust-tight fan and blower duty motors designed for shaft mounted fans or belt driven fans. The motor must be mounted within the airflow of the fan.

TOTALLY ENCLOSED NON-VENTILATED (TENV): No vent openings, tightly enclosed to prevent the free exchange of air, but not airtight. Has

no external cooling fan and relies on convection for cooling. Suitable for use where exposed to dirt or dampness, but not for hazardous (explosive) locations.

TOTALLY ENCLOSED FAN COOLED (TEFC): Same as the TENV except has external fan as an integral part of the motor, to provide cooling by blowing air around the outside frame of the motor.

TOTALLY ENCLOSED, HOSTILE AND SEVERE ENVIRONMENT MOTORS: Designed for use in extremely moist or chemical environments, but not for hazardous locations.

TOTALLY ENCLOSED BLOWER COOLED MOTORS (TEBC): Used to extend the safe speed range of inverter-fed motors. Similar to TEFC except a small, constant-speed fan provides uniform airflow regardless of the drive motor's operating speed.

EXPLOSION-PROOF MOTORS: These motors meet Underwriters Laboratories and Canadian Standards Association standards for use in hazardous (explosive) locations, as indicated by the UL label affixed to the motor. Locations are considered hazardous because the atmosphere does or may contain gas, vapor, or dust in explosive quantities.

NEMA SERVICE FACTORS

HP	ENCLOSURE	RPM		
		3600	1800	1200
1/4-1/3	Open	1.35	1.35	1.35
1/2-3/4	Open	1.25	1.25	1.25
1 & Larger	Open	1.15	1.15	1.15
All	Totally Enclosed	1.00	1.00	1.00

Most LEESON Totally Enclosed Motors have 1.15 Service Factor. Refer to the Service Factor information on each page to identify specific totally enclosed motors with NEMA 1.00 Service Factor or LEESON 1.15 Service Factor. All drip-proof motors have NEMA Service Factors of 1.15 or higher. **All three phase totally enclosed motors have NEMA Service Factors of 1.15 except when noted (□).**

SCR PM DC MOTORS ON PWM POWER SUPPLIES

Pulse width modulated DC controls have a voltage output similar to pure direct current which has a form factor of 1.00. SCR thyristor drives, such as the SPEEDMASTER® controls listed on page 117, have a form factor of 1.4.

LEESON stock SCR rated motors can also be used with PWM controls. In fact, the motor's HP rating can be increased because of less heating in the motor. In addition, the motor will operate quieter and the brush life will be extended.

Rated HP 1.40 FF	Rated RPM	Rated Volts	Catalog Number	Rated HP 1.05 FF
1/4	1750	90	098002	0.40
	1750	180	098003	0.50
1/3	1750	90	098004	0.50
	1750	90	108424	0.56
	1750	180	098005	0.50
1/2	2500	90	098006	0.75
	2500	180	098007	0.70
	1750	90	098000	0.70
	1750	90	108014	0.75
	1750	90	108226	0.75
	1750	180	098008	0.56
3/4	1750	180	108015	0.70
	1750	180	108227	0.70
	2500	90	098009	1.00
	2500	90	108016	1.00
	2500	180	098010	1.00
	2500	180	108017	0.86
	1750	90	098032	1.00
	1750	90	108018	1.00
	1750	90	108228	1.25
	1750	180	098069	1.00
1	1750	180	108019	1.00
	1750	180	108229	1.25
	2500	90	108020	1.50
	2500	180	108021	1.50
	1750	90	108022	1.25
	1750	90	108230	1.25
1½	1750	180	108023	1.25
	1750	180	108231	1.25
	2500	180	108265	2.00
	1750	180	108092	1.75
	1750	180	108262	1.75
2	1750	180	108232	1.75
	1750	180	128000	--
	2500	180	108266	3.00
	1750	180	128001	--
3	1750	180	128010	--
	2500	180	128008	--
	1750	180	108502	--

METRIC (IEC) DESIGNATIONS

The International Electrotechnical Commission (IEC) is a European-based organization that publishes and promotes worldwide mechanical and electrical standards for motors, among other things. In simple terms, it can be said that IEC is the international counterpart to the National Electrical Manufacturers Association (NEMA), which publishes the motor standards used in the United States.

IEC standards are expressed in metric units.

IEC ENCLOSURE PROTECTION INDEXES

Like NEMA, IEC has designations indicating the protection provided by a motor's enclosure. However, where NEMA designations are word descriptive, such as Open Drip-Proof or Totally Enclosed Fan Cooled. IEC uses a two-digit Index of Protection (IP) designation. The first digit indicates how well-protected the motor is against the entry of solid objects, the second digit refers to water entry.

By way of general comparison, an IP22 motor relates to Open Drip-Proof, IP54 to totally enclosed.

Protection Against Solid Objects		Protection Against Liquids	
Number	Definition	Number	Definition
0	No protection	0	No protection
1	Protected against solid objects of over 50 mm (e.g. accidental hand contact)	1	Protected against water vertically dripping (condensation)
2	Protected against solid objects of over 12 mm (e.g. finger)	2	Protected against water dripping up to 15° from the vertical
3	Protected against solid objects of over 2.5 mm (e.g. tools, wire)	3	Protected against rain falling at up to 60° from the vertical
4	Protected against solid objects of over 1 mm (e.g. thin wire)	4	Protected against water splashes from all directions
5	Protected against dust	5	Protected against jets of water from all directions
6	Totally protected against dust.	6	Protected against jets of water comparable to heavy seas
		7	Protected against the effects of immersion to depths of between 0.15 and 1m
		8	Protected against the effects of prolonged immersion at depth

IEC DESIGN TYPES

The electrical performance characteristics of IEC Design N motors in general mirror those of NEMA Design B—the most common type of motor for industrial applications. By the same token, the characteristics of IEC Design H are nearly identical to those of NEMA Design C. There is no specific IEC equivalent to NEMA Design D.

MOTOR EFFICIENCY TEST METHODS

Performance data of single phase motors is determined by using I.E.E.E. Std. 114 (Method B), three phase motors by I.E.E.E. Std. 112 (Method B). Motor efficiency is calculated using CSA C390. These testing methods meet the requirements of EPAct of 1992 and most utility companies.

For complete performance data on all LEESON motors, please review the Find-A-Product section on www.leeson.com.

Technical Information

IEC Motors

DC Motors

Gearmotors

AC / DC Controls

Accessories / Kits

Motors / Factory Options

X-Ref / Index

Tech Information

Terms / Warnings

Motors Designed For Use In The Automotive Industry

Automotive Duty 56 frame and U Frame motors (pages 233-240) are designed to meet automotive industry specifications from General Motors (GM-7EQ, GM-7EH), Ford (EM1) and Chrysler (NPEM-100). Actual qualifications for individual ratings are indicated in the footnotes on the price pages.

Automotive Duty T Frame motors (pages 233-240) are designed to meet or exceed Ford EM1-1996 specification (see footnotes on the price pages).

UL Recognized Component Listing

Low voltage (< 600 V) motors in frames 48-449T and 182U-445U listed in this catalog (excludes REW, SREW, SEW, SSEW, MD and SE models) carry UL Recognized Component Listing (contact Lincoln for file number).

Web: www.ul.com

NAFTA

A NAFTA (North American Free Trade Agreement) Certificate of Origin can be supplied on request.

Canadian Standards Association (CSA)

Low voltage (< 600 V) motors in frames 48-449T and 182U-445U listed in this catalog have Canadian Standards Association approval (contact Lincoln for file number).



Web: www.csa-international.org

CE (Conformité Européenne)

Lincoln offers a variety of CE-compliant motors. Copies of Lincoln's Declaration of Conformity for the Low Voltage Directive and Manufacturer's Declaration for the Machinery Directive are available on request.

Motors for Hazardous Locations

NEMA defines an explosion-proof motor as follows: "a totally-enclosed machine designed and constructed to withstand an explosion of a specified gas or vapor which may occur within it and to prevent ignition of specified gas or vapor surrounding the machine by sparks, flashes or explosions of the specified gas or vapor which may occur within the machine casing".

Typical applications include petroleum and chemical plants or pipelines, gasoline pumps and natural gas compressors.

A **dust-ignition-proof** motor is "a totally enclosed machine whose enclosure is designed and constructed in a manner which will exclude ignitable amounts of dust or amounts which might affect performance or rating, and which will not permit arcs, sparks, or heat otherwise generated or liberated inside of the enclosure to cause ignition of exterior accumulations or atmospheric suspensions of a specific dust on or in the vicinity of the enclosure. Successful operation of this type of machine requires avoidance of overheating from such causes as excessive overloads, stalling, or accumulation of excessive quantities of dust on the machine".

Typical applications include grain elevators, coal handling equipment, feed and cereal mills, sugar refineries and chemical plants. Both types of motors are submitted to Underwriters Laboratories (UL) for approval.

The following is a brief description of the hazardous locations of both gaseous and dusty atmospheres as classified by the National Fire Protection Association's (NFPA) National Electrical Code (NEC) and printed from the 1996 Handbook. Consult the National Electrical Code for more information on explosion proof regulations.

Class 1 Group Classifications:

Class C - Atmospheres containing ethyl ether, ethylene, or gases or vapors of equivalent hazard.

Class D - Atmospheres such as acetone, ammonia, benzene, butane, cyclopropane, ethanol, gasoline, hexane, methanol, methane, natural gas, naphtha, propane, or gases or vapors of equivalent hazard.

Class 2 Group Classifications:

Group F - atmospheres containing carbonaceous dusts, including carbon black, charcoal, coal or coke dusts that have more than 8% total entrapped volatiles, or dusts that have been sensitized by other materials so that they present an explosion hazard.

Group G - atmospheres containing combustible dusts not included in Group E or F, including flour, grain, wood, plastic, and chemicals.

BAKING INDUSTRY SANITATION STANDARDS COMMITTEE

WASHGUARD II, stainless steel washdown duty motors, NEMA frames 56, 143T, 145T, 182T and 184T are certified to Standard No. 29 for Electric Motors and Accessory Equipment, authorization number 769. The WBMQ Series of gear reducers are BISSC certified to Standard No. 29 for Electric Motors and Accessory Equipment, authorization number 941.

SAUDI ARABIAN STANDARDS ORGANIZATION

SCCP Ref. No.: R-100157

U.S. DEPARTMENT OF ENERGY (DOE)

Compliance Certification (CC) number: CC005A

The CE Mark

CE is an acronym for the French phrase "*Conformité Européenne*" and is similar to the UL or CSA marks of North America. However, unlike UL or CSA which require independent laboratory testing, the CE mark can be applied by the motor manufacturer through "self certifying" that its products are designed to the appropriate standards. The European Union has issued 24 directives related to the CE mark. Three Directives apply to electric motors.

Low Voltage Directive (2006/95/EC) This directive applies to electrical equipment operating in the voltage range of 50-1000 volts AC or 75-1500 volts DC. Virtually all LEESON motors (except low voltage DC) are included in this directive.

Based on our testing to the applicable electrical and mechanical standards EN60034 and IEC 34, LEESON certifies conformity to this directive. All three phase 50 Hz stock motors comply with the nameplate designations, lead markings and connection diagrams required. A "Declaration of Conformity" accompanies these motors and a CE label is applied.

Machinery Directive (89/3392/EEC) This directive applies to machinery that may contain certain motors. This is an issue with equipment manufacturers and requires the use of a motor meeting the Low Voltage Directive and requires a "Declaration of Incorporation" document which means that only the motor complies with the requirements of the Low Voltage Directive. A CE label is applied to the motor but it remains the responsibility of the equipment manufacturer to obtain certification for the finished product.

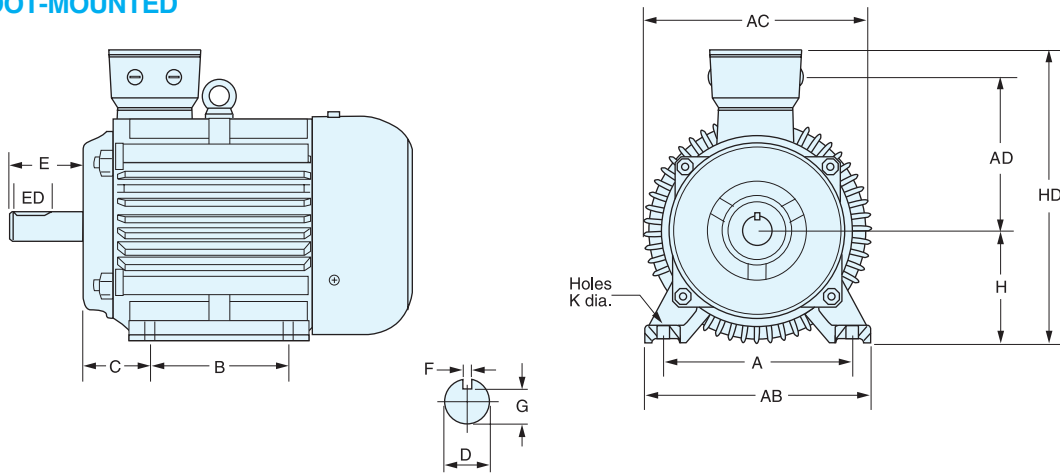
Electromagnetic Compatibility (EMC) Directive (2004/108/EC) This directive addresses the final product and is again a concern for the equipment manufacturer. Since this Directive addresses electromagnetic interference (EMI) concerns, it does not affect three phase AC motors because they do not produce EMI. DC motors, however, do produce EMI. How much of the "noise" is emitted outside the machine depends on a host of factors. LEESON's Engineering Department can assist OEM's in applying DC motors in machinery destined for Europe and requiring certification to the EMC Directive.



Technical Information

Dimensions - AC Metric (IEC) Motors

B3 FOOT-MOUNTED

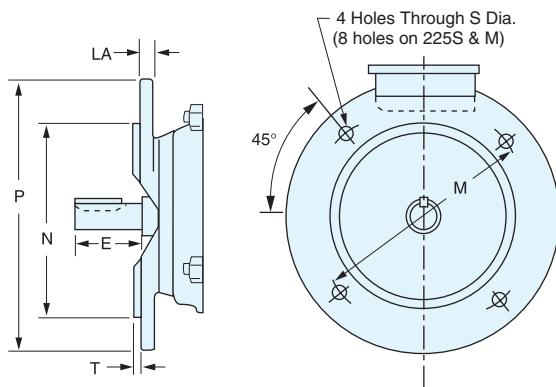


METRIC (IEC) FRAME DIMENSIONS (Millimeters)

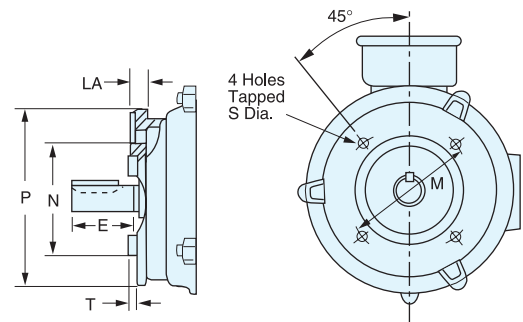
Frame	Mounting						Shaft						General			B5 Flange						B14 Face					
	A	B	C	H	AB	K	D	E	F	G	ED	DH	AC	AD	HD	M	N	P	S	T	LA	M	N	P	S	T	LA
D56	90	71	36	56	107	6	9	20	3	7.5	8	M3 x 8	—	—	—	100	80	120	7	2.5	7	65	50	80	M5	2.5	7
D63	100	80	40	63	122	7	11	23	4	8.5	10	M4 x 10	126	84	171	115	95	140	10	3.0	7	75	60	90	M5	2.5	7
D71	112	90	45	71	136	7	14	30	5	11.0	20	M5 x 12.5	141	94	191	130	110	160	10	3.5	7	85	70	105	M6	2.5	9
D80	125	100	50	80	154	10	19	40	6	15.5	25	M6 x 16	159	102	206	165	130	200	12	3.5	12	100	80	120	M6	3.0	9
D90S	140	100	56	90	172	10	24	50	8	20.0	32	M8 x 19	180	112	229	165	130	200	12	3.5	12	115	95	140	M8	3.0	9
D90L	140	125	56	90	172	10	24	50	8	20.0	32	M8 x 19	180	112	229	165	130	200	12	3.5	12	115	95	140	M8	3.0	9
DF100L	160	140	63	100	205	12	28	60	8	24.0	40	M10 x 22	205	130	270	215	180	250	15	4.0	11	130	110	160	M8	3.5	14
DF112M	190	140	70	112	230	12	28	60	8	24.0	40	M10 x 22	240	150	300	215	180	250	15	4.0	12	130	110	160	M8	3.5	11
DF132S	216	140	89	132	270	12	38	80	10	33.0	56	M12 x 28	275	180	345	265	230	300	15	4.0	12	165	130	200	M10	3.5	14
DF132M	216	178	89	132	270	12	38	80	10	33.0	56	M12 x 28	275	180	345	265	230	300	15	4.0	12	165	130	200	M10	3.5	14
DF160M	254	210	108	160	320	15	42	110	12	37.0	80	M16 x 36	330	210	420	300	250	350	19	5.0	13	215	180	250	M12	4.0	13
DF160L	254	254	108	160	320	15	42	110	12	37.0	80	M16 x 36	330	210	420	300	250	350	19	5.0	13	215	180	250	M12	4.0	13
DF180M	279	241	121	180	355	15	48	110	14	42.5	80	M16 x 36	360	236	455	300	250	350	19	5.0	15	—	—	—	—	—	—
DF180L	279	279	121	180	355	15	48	110	14	42.5	80	M16 x 36	360	236	455	300	250	350	19	5.0	15	—	—	—	—	—	—
DF200L	318	305	133	200	395	19	55	110	16	49.0	100	M20 x 42	420	260	505	350	300	400	19	5.0	18	—	—	—	—	—	—
DF225S	356	286	149	225	435	19	55*/60	110*/140	16*/18	49*/53	100*/125	M20 x 42	450	275	580	400	350	450	19	5.0	18	—	—	—	—	—	—
DF225M	356	311	149	225	435	19	55*/60	110*/140	16*/18	49*/53	100*/125	M20 x 42	450	275	580	400	350	450	19	5.0	18	—	—	—	—	—	—
DF250M	406	349	168	250		24	60*/65	140*/140	18*/18	53*/58	125*/125	M20 x 42	508	300	625	—	—	—	—	—	—	—	—	—	—	—	—

* 2 Pole Dimensions

The overall length dimension for each catalog item is listed on pages 148-151 of this catalog.
Frames DF100L through DF132M, conduit box is located in the center of the frame.



B5 FLANGE

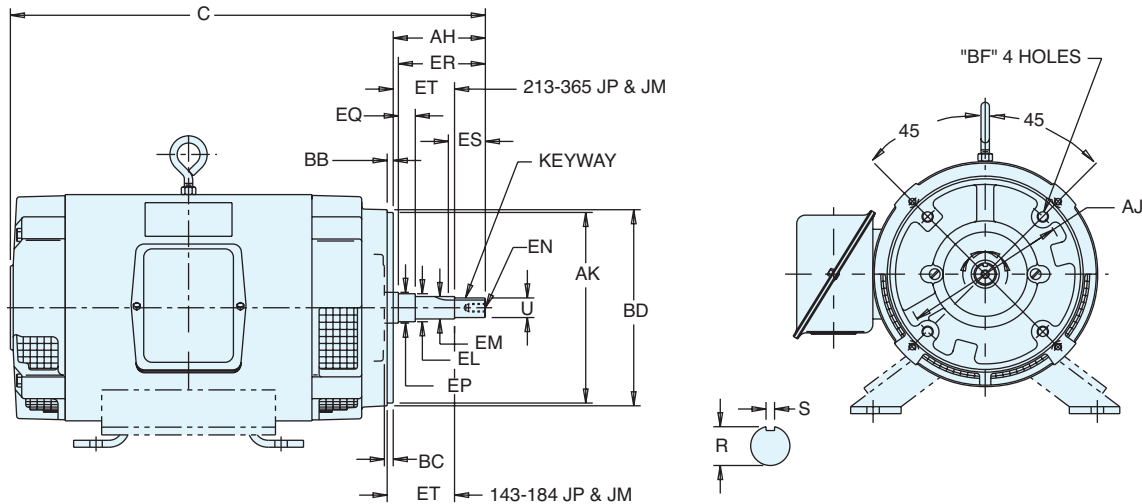


B14 FACE

Technical Information

Dimensions - Definite Purpose - Close Coupled Pump Motors

TYPICAL CLOSE COUPLED PUMP MOTOR



For standard NEMA base dimensions, see pages 280 and 282.

Dimensions for Type JM

Frame Desig.	U	AH	AJ	AK	BB	BD Max.	BF				EL	EM	EN				EP Min.	EQ	ER Min.	Keyseat				ET
							No.	Tap Size	Bolt Pen. Allow.				Tap Size	Tap Drill Depth Max.	Bolt Pen. Allow.					R	ES Min.	S		
143 & 145JM	0.8745 0.8740	4.15 4.10	5.890 5.860	4.500 4.497	0.150 0.10	6.62	4	3/8-16	0.56	1.156 1.154	1.0000 0.9995	3/8-16	1.12	0.75	1.156 0.610	0.640 0.610	4.25	0.771 0.756	1.65	0.190 0.188	2.890 2.860			
182 & 184JM	0.8745 0.8740	4.13 4.09	5.89 5.86	4.500 4.497	0.16 0.125	6.62	4	3/8-16	0.56	1.250 1.248	1.0000 0.9995	3/8-16	1.12	0.75	1.250 0.610	0.640 0.610	4.25	0.771 0.756	1.65	0.190 0.188	2.890 2.860			
213 & 215JM	0.8750 0.8745	4.25	7.265 7.235	8.500 8.497	0.312 0.250	9.00	4	1/2-13	0.75	1.250 1.248	1.0000 0.9995	3/8-16	1.12	0.75	1.750 0.610	0.640 0.610	4.25	0.771 0.756	1.65	0.190 0.188	2.890 2.860			
254 & 256JM	1.2495 1.2490	5.25	7.250	8.500 8.497	0.312 0.250	10.00	4	1/2-13	0.75	1.750 1.748	1.3750 1.3745	1/2-13	1.50	1.00	1.750 0.610	0.640 0.610	5.25	1.112 1.097	2.53	0.252 0.250	3.015 2.985			
284 & 286JM	1.2495 1.2490	5.281 5.219	11.00	12.500 12.495	0.312 0.250	14.00	4	5/8-11	0.94	1.750 1.748	1.3750 1.3745	1/2-13	1.50	1.00	2.125 0.605	0.645 0.605	5.25	1.112 1.097	2.53	0.252 0.250	3.020 2.980			
324 & 326JM	1.2495 1.2490	5.281 5.219	11.00	12.500 12.495	0.312 0.250	14.00	4	5/8-11	0.94	1.750 1.478	1.3750 1.3745	1/2-13	1.50	1.00	2.125 0.605	0.645 0.605	5.25	1.112 1.097	2.53	0.252 0.250	3.020 2.980			

Dimensions for Type JP

Frame Desig.	U	AH	AJ	AK	BB	BD Max.	BF				EN				EP Min.	EQ	ER Min.	Keyseat				ET
							No.	Tap Size	Bolt Pen. Allow.	EL	EM	Tap Size	Tap Drill Depth Max.	Bolt Pen. Allow.				R	ES Min.	S		
143 & 145JP	0.8745 0.8740	7.19 7.15	5.890 5.860	4.500 4.497	0.156 0.125	6.62	4	3/8-16	0.56	1.156 1.154	1.0000 0.9995	3/8-16	1.12	0.75	1.156 1.548	1.578 1.548	7.312	0.771 0.756	1.65 1.65	0.190 0.188	5.952 5.922	
182 & 184JP	0.8745 0.8740	7.21 7.15	5.890 5.860	4.500 4.497	0.156 0.100	6.62	4	3/8-16	0.56	1.250 1.248	1.0000 0.9995	3/8-16	1.12	0.75	1.250 1.548	1.578 1.548	7.312	0.771 0.756	1.65 1.65	0.190 0.188	5.952 5.922	
213 & 215JP	1.2495 1.2490	8.12	7.250	8.500 8.497	0.312 0.250	9.00	4	1/2-13	0.75	1.750 1.748	1.3750 1.3745	1/2-13	1.50	1.00	1.750 2.360	2.390 2.360	8.125	1.112 1.097	2.53 2.50	0.252 0.250	5.890 5.860	
254 & 256JP	1.2495 1.2490	8.156 8.094	7.250	8.500 8.497	0.312 0.250	10.00	4	1/2-13	0.75	1.750 1.748	1.3750 1.3745	1/2-13	1.50	1.00	1.750 2.360	2.390 2.360	8.125	1.112 1.097	2.53 2.50	0.252 0.250	5.890 5.855	
284 & 286JP	1.2495 1.2490	8.156 8.094	11.00	12.500 12.495	0.312 0.250	14.00	4	5/8-11	0.94	1.750 1.748	1.3750 1.3745	1/2-13	1.50	1.00	2.125 2.360	2.390 2.360	8.125	1.112 1.097	2.53 2.50	0.252 0.250	5.895 5.860	
324JP & 326JP	1.2495 1.2490	8.12	11.00	12.500 12.495	0.312 0.250	14.00	4	5/8-11	0.94	1.750 1.748	1.3750 1.3745	1/2-13	1.50	1.00	2.125 2.355	2.395 2.355	8.125	1.112 1.097	2.53 2.50	0.252 0.250	5.895 5.855	
364JP & 365JP	1.6245 1.6240	8.12	11.00	12.500 12.495	0.312 0.250	14.00	4	5/8-11	0.94	2.125 2.13	1.7500 1.7495	1/2-13	1.50	1.00	2.500 2.355	2.395 2.355	8.125	1.416 1.401	2.53 2.50	0.377 0.375	5.895 5.855	

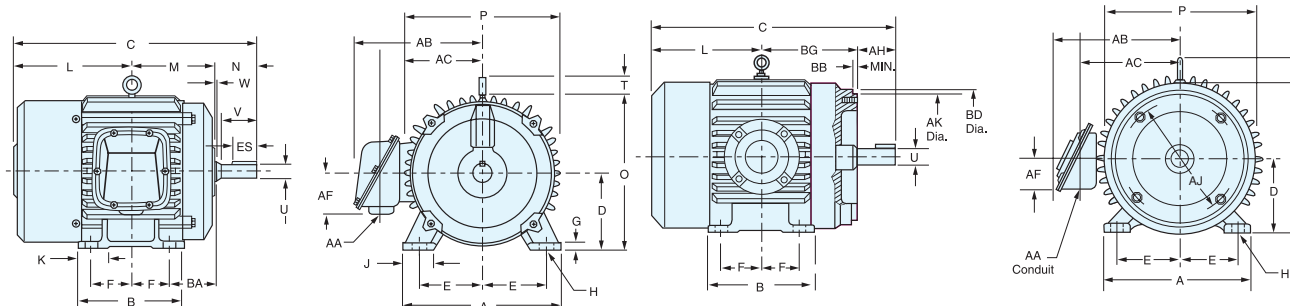
All dimensions are measured in inches. For "C" dimensions, refer to the appropriate catalog page. Certified drawings are available upon request - contact LEESON for details.

Technical Information

Dimensions - NEMA Explosion Proof - 158 Series

RIGID MOUNT 158 SERIES

C FACE 158 SERIES



NEMA EXPLOSION-PROOF • 158 SERIES • RIGID MOUNT DIMENSIONS (Inches)

Frame Size	A	B	D	E	F	G	H	J	K	L	M	N	O	P	T	U	V	N-W	ES	AA	AB	AC	AF	BA	KEY
182T	9	6	4 1/2	3 3/4	2 1/4	7/16	7/16	1 3/4	1 7/8	6 13/16	4 15/16	2 13/16	9 1/8	9 1/4	—	1.125	2 1/2	2 3/4	1 7/8	3/4	7 13/16	6 9/16	3 1/8	2 3/4	
184T		7			2 3/4					7 5/16	5 7/16	2 15/16													
213T	10 1/2	7	5 1/4	4 1/4	2 5/8	7/16	7/16	2	1 7/8	8 1/8	6 3/16	3 7/8	10 1/2	10 1/2	2 5/16	1.375	3 1/8	3 1/4	2 7/16	1	9 1/4	7 5/8	3 1/2	3 1/2	5/16
215T		8 1/2			3 1/2					8 7/8	6 15/16														
254T	12 1/2	10 1/4	6 1/4	5	4 1/8	5/8	9/16	2 1/2	2 5/8	10 3/8	8 5/16	4 1/8	12 1/2	12 1/2	2 5/16	1.625	3 3/4	3 3/8	2 15/16	1 1/4	10 1/4	8 7/8	3 7/8	4 1/4	
256T		12			5					11 1/4	9 3/16														
284T		11 1/2			4 3/4					11 13/16	9 7/16	4 11/16				1.875	4 3/8	4 1/2	3 1/4						1/2
284TS												3 5/8	14	14	2 7/16	1.625	3	3 3/8	1 15/16	1 1/2	12 1/8	10	4 7/16	4 3/4	3/8
286T	13 3/4		7	5 1/2	5 1/2	5/8	9/16	2 1/2	2 3/4	12 9/16	10 9/16	4 11/16				1.875	4 3/8	4 1/2	3 1/4						1/2
286TS		13										3 5/16				1.625	3	3 3/8	1 15/16						3/8
324T		13 1/4			5 1/4					13 3/16	10 7/16	5 7/16				2.125	5	5 1/8	4						
324TS												3 13/16	16	16	2 5/8	1.875	3 1/2	3 5/8	2						
326T	15 1/2		8	6 1/4	6	5/8	1 1/16	2 3/4	3 1/8	13 15/16	11 3/16	5 9/16				2.125	5	5 1/8	3	2	14 3/8	11 3/4	5 3/8	5 1/4	
326TS		14 3/4										3 13/16				1.875	3 1/2	3 5/8	2 1/16						
364T					5 5/8					16 1/16	11 3/8	6				2.375	5 5/8	5 3/4	4 1/4						5/8
364TS												3 7/8	18 1/2	19	12 7/16	1.875	3 1/2	3 5/8	2 1/16	3	16 1/16	13 5/16	6 7/8	5 7/8	1/2
365T	17	15	9	7	6 1/8	7/8	1 1/16		3 3/4	15 9/16	11 7/8	6				2.375	5 5/8	5 3/4	4 1/4						5/8
365TS								3 3/4				3 7/8				1.875	3 1/2	3 5/8	2 1/16						1/2
405T												7 5/8				2.875	7	7 1/8	5 11/16						3/4
405TS	19	16	10	8	6 7/8	1 1/8	1 3/16	3 1/4	3 1/4	17 9/16	13 3/8	4 5/8	21 5/16	22 5/16	2 15/16	2.125	4	4 1/8	2 7/8	4	16 3/8	13 1/4	7 1/2	6 5/8	1/2

NEMA EXPLOSION-PROOF • 158 SERIES • C FACE DIMENSIONS (Inches)

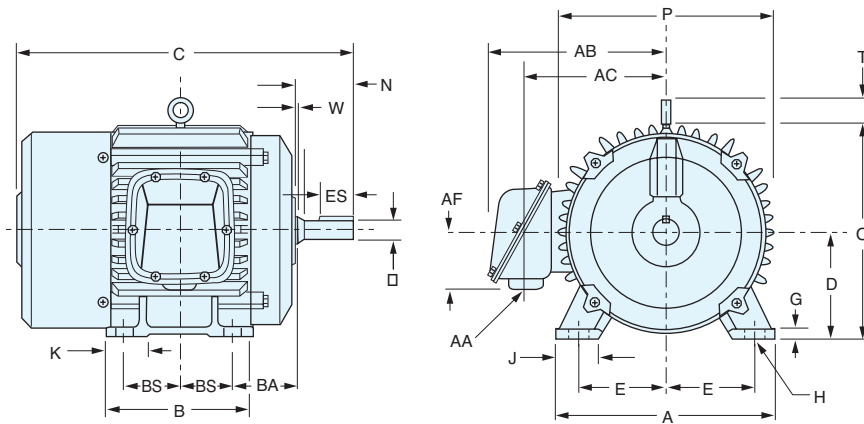
Frame Size	A	B	D	E	F	H	L	O	P	T	U	V	AH	AJ DIA.	AJ BARR.	BB	AK	BD	BG	AA	AB	AC	AF	KEYWAY
182T	9	6	4 1/2	3 3/4	2 1/4	7/16	6 5/8	9 1/8	9 1/4	—	1.1250	2 1/2	2 5/8	7 1/4	4	9/32	8.500	8 3/4	5 7/8	3/4	9 3/8	7 1/8	2 1/2	1/4
184T		7		2 3/4			7 1/8												6 3/8					

The condensed dimensions shown on these pages are for general reference only and are not for construction. The overall length or "C" dimension for each catalog item is included in this catalog. **Certified drawings of all ratings are available for construction purposes.**

Technical Information

Dimensions - NEMA Explosion Proof - G Series

RIGID MOUNT G-SERIES



NEMA EXPLOSION-PROOF • G-SERIES • RIGID MOUNT DIMENSIONS (Inches)

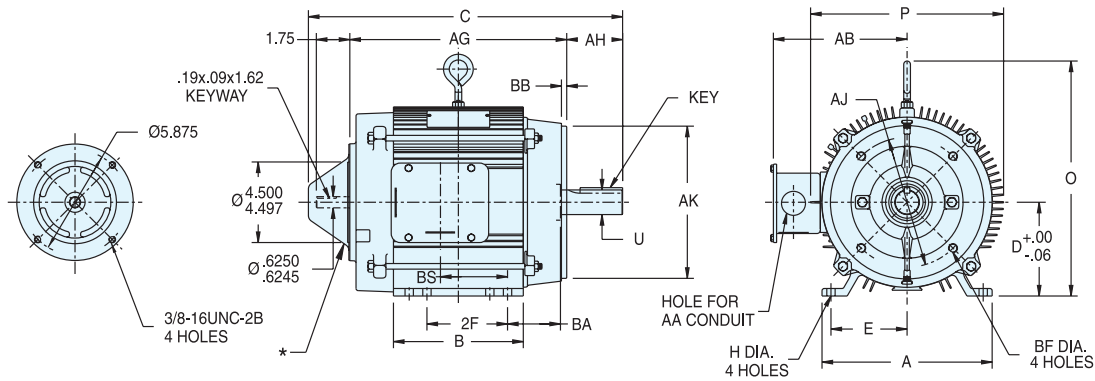
Frame Size	A	B	D	E	2F*	G	H	J	K	N	O	P	T	U	N-W	ES	AA	AB	AC	AF	BA	BS	KEY	C Dim
182T 184T	8.88	7.75	—	3.75	6.75	0.45	0.41-0.46	1.56	—	2.78	9.36	9.76	2.62	1.125	2.75	1.75	0.75	9.73	7.13	—	2.75	3.37	0.25	17.12
213T 215T	10.38	8.50	5.19 5.25	4.25	7.00	0.60	0.44	1.87	—	3.41	10.60	11.50	2.62	1.375	3.38	2.38	0.75	10.94	8.32	2.55	3.50	3.50	0.31	20.18
254T 256T	12.12	10.25	6.19 6.25	5.00	8.25 10.00	0.55	0.53-0.58	2.08	—	4.19	14.07	14.12	—	1.625	4.00	2.88	1.25	13.67	10.65	3.12	4.25	4.12 5.00	0.38	23.52 25.27
284T 284TS 286T 286TS	13.00	11.50 13.00	6.94 7.00	5.50	9.50 11.00	0.88	0.53-0.58	2.50	2.50	4.81 3.44 4.81 3.44	14.74	15.50	3.25	1.875 1.625 1.875 1.625	4.62	3.25 1.88 3.25 1.88	1.50	15.33	11.44	5.38	4.75	4.75 5.50	0.50 0.38 0.50 0.38	26.30 24.94 27.80 26.44
324T 324TS 326T 326TS	15.75	13.00 14.50	7.94 8.00	6.25	10.50 12.00	0.86	0.66-0.71	3.50	—	5.50 4.00 5.50 4.00	17.10	16.00	3.25	2.125 1.875 2.125 1.875	5.25 3.75 5.25 3.75	3.88 2.00 3.88 2.00	2.00	16.50	12.64	5.38	5.25	5.25 6.00	0.50 0.50	28.87 27.37 30.37 28.87
364T 364TS 365T 365TS	17.75	13.25 14.25	8.94 9.00	7.00	11.25 12.25	1.12	0.66-0.71	4.00	3.25	6.12 4.00 6.12 4.00	19.00	20.00	3.62	2.375 1.875 2.375 1.875	5.88 3.75 5.88 3.75	4.24	2.50	19.75	14.50	5.38	5.88	5.62 0.62 6.12	0.62	31.50 29.38 32.50 30.38
405T 405TS	19.25	16.25	—	8.00	13.75	1.12	0.81-0.86	4.25	3.75	7.50 4.50	20.87	21.75	3.62	2.875 2.125	7.25 4.25	5.62 2.75	2.50	21.50	16.38	5.38	6.62	6.88	0.75 0.50	37.12 34.12
444T 444TS 445T 445TS 449T 449TS	21.50	18.00 19.75 28.25	10.94	9.00	14.50 16.50 25.00	1.25	0.81-0.86	3.75	4.50 5.12 9.88	8.75 5.00 8.75 5.00 8.75 5.00	23.12 24.11 24.19	24.25 26.31 26.31	3.62 2.44 0.77	3.375 2.375 3.375 2.375 3.375 2.375	8.50 4.75 8.50 4.75 8.50 4.75	6.88 3.00 6.88 3.00 6.88 3.00	2.50	22.75 27.24 26.09	17.50 20.06 18.88	5.38	7.50	7.25 8.25 1.78	0.88 0.62 0.88	41.25 37.50 43.19 39.44 51.69 47.97

* 182-4T and 213-5T frames have eight-hole bases. 449T and TS frames have six-hole bases. Others have four-hole bases.

Technical Information

Dimensions - Speedmaster® Inverter Duty Motors

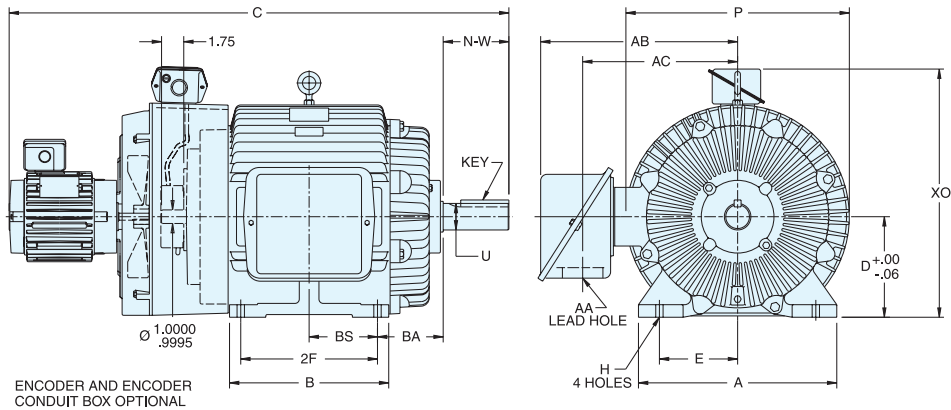
TENV—C FACE, RIGID BASE



TENV • C FACE • RIGID BASE • DIMENSIONS (Inches)

Frame Size	D	E	2F	H	O MAX.	P MAX.	U	AA	AB MAX.	AG MAX.	AH	AJ	AK	BA	BB	BF	BS	KEY
143TC	3.50	2.75	4.00	.38	7.45	7.98	.875	1.09	7.04	9.25	2.12	5.875	4.50	2.62	.13	3/8-16	2.81	.19 x .19 x 1.38
145TC	3.50	2.75	5.00	.35	7.45	7.98	.875	1.09	7.04	10.25	2.12	5.875	4.50	2.62	.13	3/8-16	3.81	.19 x .19 x 1.38
182TC	4.50	3.75	4.50	.41	9.36	9.76	1.125	1.09	8.08	11.75	2.62	7.250	8.50	3.50	.27	1/2-13	2.25	.25 x .25 x 1.75
184TC	4.50	3.75	5.50	.41	9.36	9.76	1.125	1.09	8.08	12.75	2.62	7.250	8.50	3.50	.27	1/2-13	2.75	.25 x .25 x 1.75
213TC	5.25	4.25	5.50	.44	10.97	11.50	1.375	1.09	9.31	15.12	3.12	7.250	8.50	4.25	.27	1/2-13	3.50	.31 x .31 x 2.38
215TC	5.25	4.25	7.00	.44	10.97	11.50	1.375	1.09	9.31	17.31	3.12	7.250	8.50	4.25	.27	1/2-13	6.18	.31 x .31 x 2.38
254TC	6.25	5.00	8.25	.53	14.09	14.27	1.625	1.25	9.83	19.06	3.75	7.250	8.50	4.75	.27	1/2-13	6.31	.38 x .38 x 2.88
256TC	6.25	5.00	10.00	.56	14.09	14.27	1.625	1.25	11.08	18.82	3.75	7.250	8.50	4.75	.27	1/2-13	5.00	.38 x .38 x 2.88
284TC	7.00	5.50	9.50	.56	14.16	14.32	1.875	1.50	12.31	20.57	4.38	9.000	10.50	4.75	.27	1/2-13	5.50	.50 x .50 x 3.25

TEBC—TOTALLY ENCLOSED BLOWER COOLED, RIGID BASE



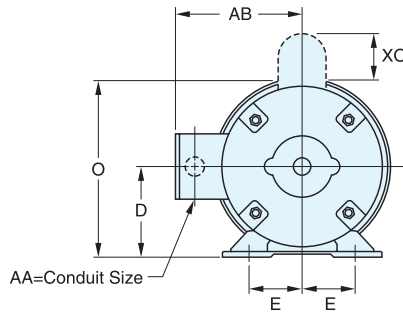
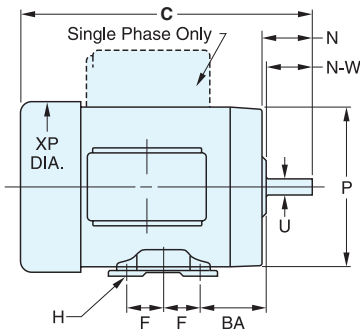
TEBC • TOTALLY ENCLOSED BLOWER COOLED • RIGID BASE • DIMENSIONS (Inches)

Frame Size	D	E	2F	H	O MAX.	P MAX.	U	AA	AB MAX.	AC MAX.	BA	BS	FU	N-W	KEY
325T	8.00	6.25	10.50	.66	16.00	15.88	2.12	2.00	13.69	10.69	5.25	5.25	1.00	5.25	.50 x .50 x 3.88
326T	8.00	6.25	12.00	.66	16.00	15.88	2.12	2.00	13.69	10.69	5.25	6.00	1.00	5.25	.50 x .50 x 3.88
364T	9.00	7.00	11.25	.66	19.00	20.00	2.38	3.62	17.85	14.56	5.88	5.62	1.00	5.88	.62 x .62 x 4.25
365T	9.00	7.00	12.25	.66	19.00	20.00	2.38	3.62	17.85	14.56	5.88	6.12	1.00	5.88	.62 x .62 x 4.25
404T	10.00	8.00	12.25	.81	20.88	21.75	2.88	3.62	18.75	14.75	6.62	6.12	1.00	7.25	.75 x .75 x 5.62
405T	10.00	8.00	13.75	.81	20.88	21.75	2.88	3.62	19.75	16.25	6.62	6.88	1.00	7.25	.75 x .75 x 5.62
444T	11.00	9.00	14.50	.81	24.19	25.31	3.38	3.62	20.94	17.38	7.50	7.25	1.00	8.50	.88 x .88 x 6.88
445T	11.00	9.00	16.50	.81	24.19	26.31	3.38	3.62	20.94	17.38	7.50	8.25	1.00	8.50	.88 x .88 x 6.88
449T	11.00	9.00	25.00	.81	24.22	26.31	3.38	4.62	25.90	19.31	7.50	1.78	1.00	8.50	.88 x .88 x 6.88

Technical Information

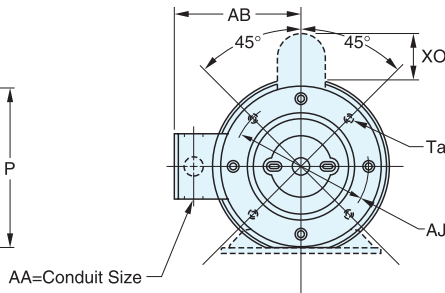
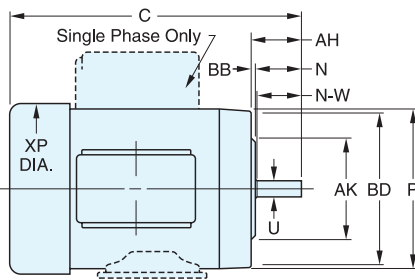
Dimensions - NEMA Steel Frame Motors

RIGID MOUNT



The condensed dimensions shown on these pages are for general reference only and are not for construction. The overall length or "C" dimension for each catalog item is included in this catalog. **Certified drawings of all ratings are available for construction purposes.**

C FACE



NEMA SHAFT AND KEYWAY DIMENSIONS (Inches)

NEMA SHAFT (U)	KEYWAY DIMENSIONS (R) (S)	NEMA SHAFT (U)	KEYWAY DIMENSIONS (R) (S)
3/8	21/64 FLAT	1-7/8	1-19/32 1/2
1/2	29/64 FLAT	2-1/8	1-27/32 1/2
5/8	33/64 3/16	2-3/8	2-1/64 5/8
7/8	49/64 3/16	2-1/2	2-3/16 5/8
1-1/8	63/64 1/4	2-7/8	2-29/64 3/4
1-3/8	1-13/64 5/16	3-3/8	2-7/8 7/8
1-5/8	1-13/32 3/8	3-7/8	3-5/16 1

■ S is keyway width.
U minus R is keyway depth.

NEMA STEEL FRAME DIMENSIONS (Inches)

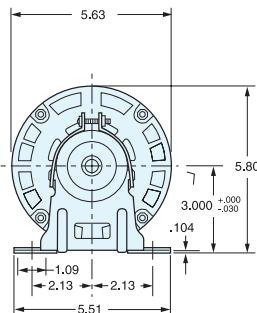
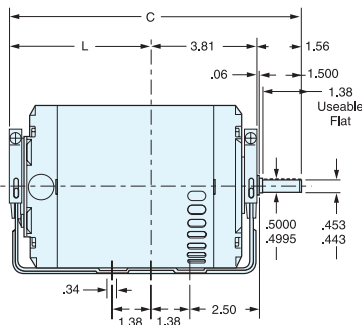
Frame Size ▲	D	E	F	H	N	O	P	U	N-W	AA	AB	AH	AJ	AK	BA	BB	BD	XO	XP	TAP **	KEY
42	2 ⁵ / ₈	1 ³ / ₄	27 ³ / ₃₂	9 ³ / ₃₂ Slot	1 ³ / ₁₆	5 ¹ / ₁₆	4 ⁷ / ₈	3 ⁷ / ₈	1 ¹ / ₈	3 ⁷ / ₈	4 ¹ / ₂	1 ⁵ / ₁₆	3 ³ / ₄	3	2 ¹ / ₁₆	1 ¹ / ₈	4 ⁷ / ₈	1 ⁵ / ₈	5 ¹ / ₈	1 ¹ / ₄ -20	3 ⁷ / ₆₄ Flat
48	3	2 ¹ / ₈	1 ³ / ₈	11 ³ / ₃₂ Slot	1 ⁹ / ₁₆	5 ¹³ / ₁₆	5 ¹⁹ / ₃₂	1 ¹ / ₂	1 ¹ / ₂	1 ¹ / ₂	4 ⁷ / ₈	1 ¹¹ / ₁₆	3 ³ / ₄	3	2 ¹ / ₂	1 ¹ / ₈	5	2 ¹ / ₄	5 ⁷ / ₈	1 ¹ / ₄ -20	3 ⁷ / ₆₄ Flat
S56	3 ¹ / ₂	2 ⁷ / ₁₆	1 ¹ / ₂	11 ³ / ₃₂ Slot	1 ¹⁵ / ₁₆	6 ⁵ / ₁₆	5 ¹⁹ / ₃₂	5 ⁷ / ₈	1 ⁷ / ₈	1 ¹ / ₂	4 ⁷ / ₈	2 ¹ / ₁₆	5 ⁷ / ₈	4 ¹ / ₂	2 ³ / ₄	1 ¹ / ₈	6 ¹ / ₂	2 ¹ / ₄	5 ⁷ / ₈	3 ⁷ / ₈ -16	3 ⁷ / ₁₆
56						6 ¹³ / ₁₆	6 ¹⁹ / ₃₂				5 ⁵ / ₁₆								7 ⁵ / ₃₂		
143T	3 ¹ / ₂	2 ³ / ₄	2	11 ³ / ₃₂	2 ³ / ₈	6 ¹³ / ₁₆	6 ¹⁹ / ₃₂	7 ⁷ / ₈	2 ¹ / ₄	3 ⁴ / ₄	5 ⁵ / ₁₆	2 ¹ / ₈	5 ⁷ / ₈	4 ¹ / ₂	*2 ¹ / ₄	1 ¹ / ₈	6 ¹ / ₂	2 ¹ / ₄	7 ⁵ / ₃₂	3 ⁷ / ₈ -16	3 ⁷ / ₁₆
145T																					
182T	4 ¹ / ₂	3 ³ / ₄	2 ¹ / ₄	13 ³ / ₃₂	2 ⁷ / ₈	8 ³ / ₄	8 ¹⁵ / ₃₂	1 ¹ / ₈	2 ³ / ₄	3 ⁴ / ₄	6 ⁷ / ₁₆	2 ⁵ / ₈	7 ¹ / ₄	8 ¹ / ₂	*2 ³ / ₄	1 ¹ / ₄	8 ⁷ / ₈	2 ¹ / ₄	9 ⁷ / ₃₂	1 ¹ / ₂ -13	1 ¹ / ₄
184T																					
S213T	5 ¹ / ₄	4 ¹ / ₄	2 ³ / ₄	13 ³ / ₃₂	3 ¹ / ₂	9 ²⁷ / ₃₂	8 ¹³ / ₃₂	1 ³ / ₈	3 ³ / ₈	3 ⁴ / ₄	7 ⁷ / ₁₆	3 ¹ / ₈	7 ¹ / ₄	8 ¹ / ₂	*3 ¹ / ₂	1 ¹ / ₄	8 ⁷ / ₈	2 ¹ / ₄	9 ⁷ / ₃₂	1 ¹ / ₂ -13	5 ⁷ / ₁₆
213T			2 ³ / ₄		—	10 ⁵ / ₈	9 ²¹ / ₃₂													10 ¹³ / ₁₆	
215T			3 ¹ / ₂																		

* 143-5TC NEMA C face BA dimension is 2³/₄". 182-4TC NEMA C face BA dimension is 3¹/₂". 213-5TC NEMA C face BA dimension is 4¹/₄".

** 326TC and smaller have 4 mounting holes in NEMA C face, 364TC and larger have 8 mounting holes.

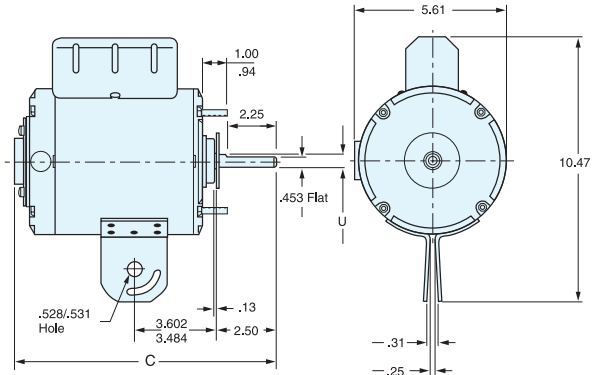
▲ Blue shading denotes dimensions established by NEMA standard MG1, others are unique to LEESON, and will vary with each manufacturer.

Split-Phase Motors - 191868, 191869 & 191870 (page 111)



Pedestal Fan Motors (page 111)

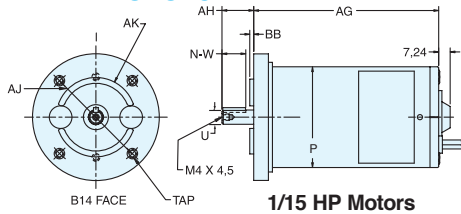
Note: Motors with U = .625 have a 3/16" keyway.



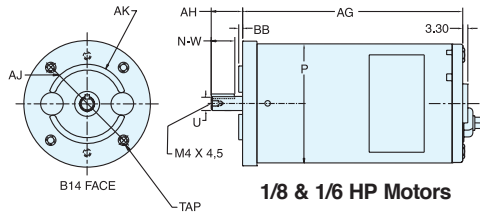
Technical Information

Dimensions

COMMERCIAL DUTY METRIC (IEC) FRAME MOTORS



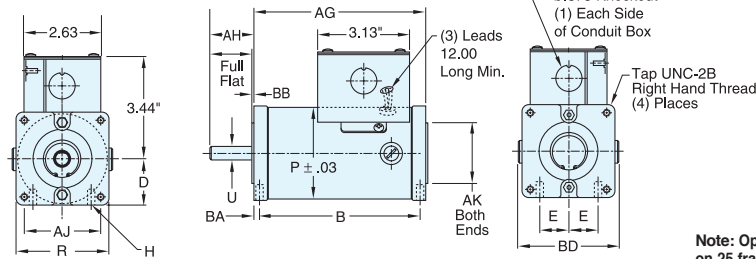
1/15 HP Motors



1/8 & 1/6 HP Motors

DIMENSIONS (Inches)

Frame Voltage	AG	P	U	AH	N-W	AJ	TAP	AK	BB
12	4.59	2.50	.35	.787	.591	2.56	M5x.8	1.97	.10
2.50	24	4.59	2.50	.35	.787	.591	2.56	M5x.8	1.97 .10
90	4.59	2.50	.35	.787	.591	2.56	M5x.8	1.97	.10
12	5.53	3.00	.35	.787	.591	2.56	M5x.8	1.97	.10
3.00	24	5.53	3.00	.35	.787	.591	2.56	M5x.8	1.97 .10
90	5.53	3.13	.35	.787	.591	2.56	M5x.8	1.97	.10
12	5.87	3.00	.35	.787	.591	2.56	M5x.8	1.97	.10
3.00	24	5.87	3.00	.35	.787	.591	2.56	M5x.8	1.97 .10
90	5.87	3.13	.35	.787	.591	2.56	M5x.8	1.97	.10



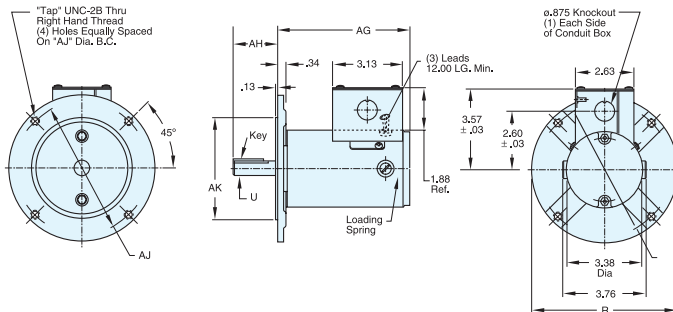
25 & 31 FRAME SQUARE FLANGE MOUNT DIMENSIONS (Inches)

Frame & Type	AG	P	BD	U	AH	AH-BB	AJ	TAP	R	AK	BB	D	BA	E	B	H
25 AS	4.08	2.50	3.00	.312	1.5	1.00	1.73	8-32	2.62	.997	.03	1.28	.125	.625	3.83	8-32
CS	4.94	2.50	3.00	.312	1.5	1.00	1.73	8-32	2.62	.997	.03	1.28	.125	.625	4.69	8-32
BS	5.39	3.07	3.45	.5000	1.5	1.00	2.63	1/4-20	3.16	1.99	.07	1.57	.235	1.000	4.92	1/4-20
31 CS**	5.89	3.07	3.45	.5000	1.5	1.00	2.63	1/4-20	3.16	1.99	.07	1.57	.235	1.000	5.42	1/4-20
ES**	6.89	3.07	3.45	.5000	1.5	1.00	2.63	1/4-20	3.16	1.99	.07	1.57	.235	1.000	6.42	1/4-20
GS	7.89	3.07	3.45	.5000	1.5	1.00	2.63	1/4-20	3.16	1.99	.07	1.57	.235	1.000	7.42	1/4-20

**Catalog numbers M1120041 & M1120044 have an 'AG' & 'F' dimension that is .5" longer than stated in table.

Note: Optional conduit box not included on 25 frame models.

Conduit box dimensions shown here are for 31 frame only.



42C FACE MOUNT DIMENSIONS (Inches)

Frame	AG	P	U	AH	AH-BB	KEY	AJ	TAP	AK	R
34D42C	6.43	3.38	.500	1.38	1.25	.13 SQ	3.750	1/4-20	3.00	4.25

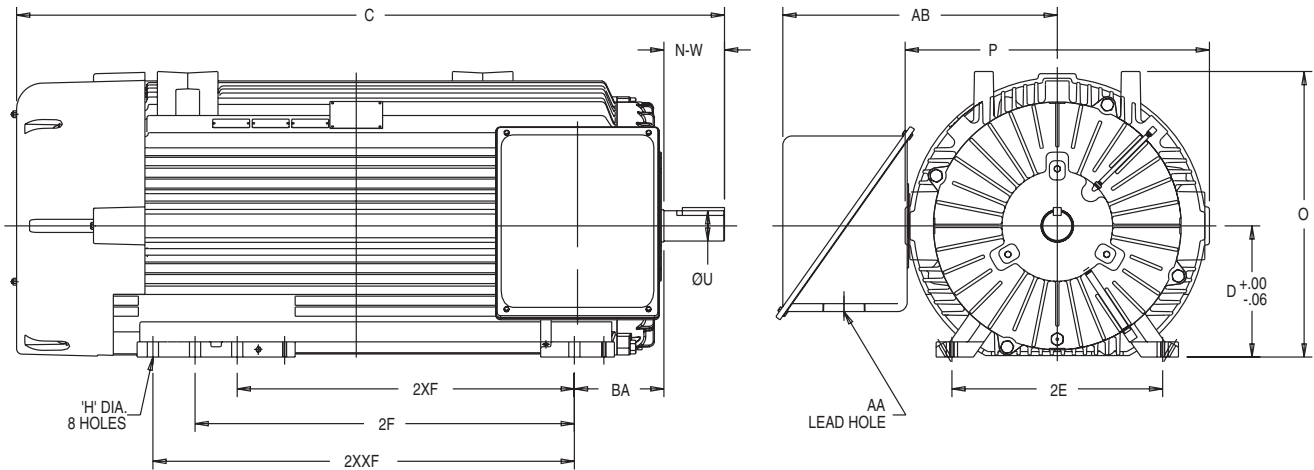
56C FACE MOUNT DIMENSIONS (Inches)

Frame	AG	P*	U	AH	AH-BB	KEY	AJ	TAP	AK	R
34E56C	6.87	3.38	.625	2.06	1.93	.19 SQ	5.875	3/8-16	4.50	6.50
34G56C	8.59	3.38	.625	2.06	1.93	.19 SQ	5.875	3/8-16	4.50	6.50

*For 1/4 HP 34 frame TEFC designs. Fan cover diameter is 3.88".

Technical Information

5000 Frame Motors



FRAME	H	BA	2XF	2F	2XXF	N-W	U	AB (MAX.)	P (MAX.)	O (MAX.)	D	2E	AA
5010LS	1.062 1.077	8.50	32.00	—	—	5.75	2.875 2.874	26.05	28.88	27.08	12.470 12.410	20.00	4.00 NPT
5011LS	1.062 1.077	8.50	—	36.00	—	5.75	2.875 2.874	26.05	28.88	27.08	12.470 12.410	20.00	4.00 NPT
5012LS	1.062 1.077	8.50	—	—	40.00	5.75	2.875 2.874	26.05	28.88	27.08	12.470 12.410	20.00	4.00 NPT
5013LS	1.062 1.077	8.50	45.00	—	—	5.75	2.875 2.874	26.05	28.88	27.08	12.470 12.410	20.00	4.00 NPT
5010LX	1.062 1.077	8.50	32.00	—	—	12.00	3.875 3.874	26.05	28.88	27.08	12.470 12.410	20.00	4.00 NPT
5011LX	1.062 1.077	8.50	—	36.00	—	12.00	3.875 3.874	26.05	28.88	27.08	12.470 12.410	20.00	4.00 NPT
5012LX	1.062 1.077	8.50	—	—	40.00	12.00	3.875 3.874	26.05	28.88	27.08	12.470 12.410	20.00	4.00 NPT
5013LX	1.062 1.077	8.50	45.00	—	—	12.00	3.875 3.874	26.05	28.88	27.08	12.470 12.410	20.00	4.00 NPT
5010L	1.062 1.077	8.50	32.00	—	—	9.50	4.000 3.999	26.05	28.88	27.08	12.470 12.410	20.00	4.00 NPT
5011L	1.062 1.077	8.50	—	36.00	—	9.50	4.000 3.999	26.05	28.88	27.08	12.470 12.410	20.00	4.00 NPT
5012L	1.062 1.077	8.50	—	—	40.00	9.50	4.000 3.999	26.05	28.88	27.08	12.470 12.410	20.00	4.00 NPT
5013L	1.062 1.077	8.50	45.00	—	—	9.50	4.000 3.999	26.05	28.88	27.08	12.470 12.410	20.00	4.00 NPT
5010S	1.062 1.077	8.50	32.00	—	—	5.75	2.625 2.624	26.05	28.88	27.08	12.470 12.410	20.00	4.00 NPT
5011S	1.062 1.077	8.50	—	36.00	—	5.75	2.625 2.624	26.05	28.88	27.08	12.470 12.410	20.00	4.00 NPT
5012S	1.062 1.077	8.50	—	—	40.00	5.75	2.625 2.624	26.05	28.88	27.08	12.470 12.410	20.00	4.00 NPT
5013S	1.062 1.077	8.50	45.00	—	—	5.75	2.625 2.624	26.05	28.88	27.08	12.470 12.410	20.00	4.00 NPT

All dimensions are measured in inches. For “C” dimensions, refer to the appropriate catalog page. Certified drawings are available upon request - contact LEESON Electric for details.



IEC Motors

DC Motors

Gearmotors

AC / DC Controls

Accessories / Kits

Mods / Factory
Options

X-Ref / Index

Tech Information

Terms / Warnings

TERMS AND CONDITIONS OF SALE

ALL QUOTATIONS ARE OFFERED AND ALL PURCHASE ORDERS ARE ACCEPTED BY SELLER SUBJECT ONLY TO THESE TERMS AND CONDITIONS.

1. DEFINITIONS:

"Buyer" means the entity to which Seller is selling Products or Services under a Contract.

"Contract" means the agreement between Buyer and Seller governing the sale of Products and/or Services by Seller to Buyer. These Terms and Conditions, the Quotation (if one is issued by Seller), any purchase order acknowledgement (if one is issued by Seller), and Buyer's purchase order (except to the extent that it conflicts with these Terms and Conditions, the Quotation, and/or the order acknowledgement) constitute the Contract.

"Products" means the equipment, parts, materials, supplies, and other goods that Seller has agreed to supply under the Contract. References in these Terms and Conditions to the purchase and sale of Products may mean, where applicable, the licensing of Software loaded on or provided with the Products.

"Quotation" means Seller's statement identifying the Products and Services, together with any quantity, price, delivery schedule, and/or other terms and conditions (in addition to or different from these Terms and Conditions), offered by Seller for sale to Buyer. A Quotation that incorporates these Terms and Conditions by reference shall be deemed to include these Terms and Conditions, whether or not Seller provides a complete copy of these Terms and Conditions to Buyer with the Quotation, with a purchase order acknowledgement, or with an invoice. Where there is a conflict between these Terms and Conditions and other provisions of the Quotation, the latter shall control.

"Services" means the services that Seller has agreed to provide under the Contract.

"Software" means software loaded on or provided with the Products.

"Seller" means the Regal entity -- whether Regal Beloit Corporation ("RBC") or an RBC subsidiary -- supplying Products and/or providing Services under the Contract.

"Terms and Conditions" means these "Terms and Conditions of Sale."

2. CONTRACT FORMATION: No agreement or understanding, oral or written, purporting to modify these Terms and Conditions shall be binding on Seller unless it is made in writing, specifically stating that it is a modification of these Terms and Conditions and it is signed by Seller's authorized representative. No course of dealing, usage of trade, or course of performance shall be relevant to explain or supplement any of these Terms and Conditions. If these Terms and Conditions are deemed an offer, Buyer's acceptance of Seller's offer is expressly limited to acceptance of these Terms and Conditions. Fulfillment of Buyer's order does not constitute acceptance of any of Buyer's terms and conditions and does not modify or amend these Terms and Conditions. Buyer's purchase order for the purchase of Products and/or for the performance of Services shall constitute Buyer's assent to these Terms and Conditions. Any terms and conditions contained in Buyer's purchase order or other form of communication from Buyer that are additional to or different from these Terms and Conditions, shall be deemed rejected by Seller, unless expressly accepted in writing by Seller's authorized representative. Alternatively, if these Terms and Conditions are deemed to be a response to, an acceptance of, or a written confirmation of, Buyer's offer, whether provided in the form of a purchase order or otherwise, Seller's acceptance is expressly conditioned upon Buyer's assent to these Terms and Conditions. Buyer's acceptance of Products tendered to Buyer by Seller shall constitute Buyer's express assent to all of the terms and conditions contained in these Terms and Conditions. All proposals, negotiations and representations, if

any, made prior to or with reference hereto are hereby superseded by these Terms and Conditions. References in this Section to "these Terms and Conditions" shall be deemed to mean these Terms and Conditions and Seller's Quotation, if Seller has issued a Quotation.

3. ACCEPTANCE OF PURCHASE ORDERS: No Buyer purchase order shall be binding on Seller until accepted in writing by Seller, and Seller shall have no liability to Buyer with respect to purchase orders that are not accepted. Shipment against a purchase order shall be deemed to constitute Seller's acceptance thereof, subject to these Terms and Conditions. All purchase orders shall be subject to these Terms and Conditions, whether or not the purchase orders so state. Purchase orders accepted by Seller may not be cancelled or modified by Buyer without the prior written consent of Seller.

4. QUOTATIONS: Quotations shall expire and shall be void thirty (30) days from date of the Quotation, unless otherwise specified in the Quotation. The Quotation may be modified or withdrawn by Seller at any time before Seller's receipt of Buyer's conforming acceptance.

5. PRICES; PRICE CHANGES:

(a) Products. The price of the Products sold pursuant to the Contract shall be as set forth in the Quotation. If price is not specified in the Quotation, price shall be based upon Seller's prices in effect at the time of shipment. Published prices are for Products of Seller's current standard design and constructed of standard materials. Variation from the standard design and/or materials requires special pricing. Seller reserves the right at any time, and without incurring any obligation, to discontinue the manufacture of any model, to withdraw products from sale, to make changes in design, and/or to add improvements to products. Price also shall be based on freight rates in effect at the time of shipment. Where applicable, in the event of an increase in the applicable freight rates before the shipment of Products, such changes will be for the account of Buyer. Price advances, discounts, extras and other terms and conditions are subject to change without notice. Unless otherwise provided in the Quotation, price is based on delivery in accordance with the "Delivery" section below. Prices include Seller's standard packing.

(b) Services. Services prices are based on normal business hours (8 AM to 5 PM Monday through Friday). Overtime and Saturday hours will be billed at one and one half (1.5) times the normal business hour hourly rate. Sunday hours will be billed at two (2) times the normal business hours hourly rate; holiday hours will be billed at three (3) times the normal business hours hourly rate.

6. TAXES, DUTIES AND FEES: Seller shall be responsible for taxes measured on Seller's net income based upon performance of, or payment for, work under the Contract ("Seller Taxes"). Buyer shall be responsible for all other taxes, duties, fees or other charges of any kind (including, but not limited to any manufacturer's tax, retailers' occupation tax, use tax, sales tax, excise tax, duty, custom, inspection or testing fee, value added tax, or any other tax, fee or charge of any nature whatsoever) imposed by any governmental authority against Buyer, Seller or Seller's suppliers and/or contractors, based upon the Contract between Seller and Buyer. In the event Seller is required to pay any such tax, fee or charge, regardless whether such tax, fee or charge is imposed before or after Seller's delivery of the Products and/or Buyer's payment under the Contract, Buyer shall reimburse Seller therefor. In lieu of such reimbursement, Buyer shall provide Seller, at the time the order is submitted, with an exemption certificate or other document acceptable to the authority imposing such tax, fee or charge. If Seller's prices include any taxes, duties or fees (other than Seller Taxes), any change in such taxes, duties and/or fees shall be the basis for a price adjustment.

7. TERMS OF PAYMENT:

(a) Terms. Terms of payment are cash in full, without set-off or discount, in U.S. dollars, and by wire transfer, no later than thirty (30) days from date of invoice.

(b) Payment Default. If Buyer defaults in any payment when due, or in the event that any voluntary or involuntary bankruptcy or insolvency proceedings involving Buyer are initiated by or against Buyer, then the whole Contract price shall immediately become due and payable upon demand, or Seller, at its option and without prejudice to its other lawful remedies, may defer delivery or cancel the Contract. Where delivery is deferred and Seller does not demand immediate payment of the full Contract price, pro-rata payments shall become due as shipments are made.

(c) Buyer Financial Condition. If, during the period of performance of the Contract, the financial condition of Buyer is determined by Seller not to justify the terms of payment specified, Seller may demand full or partial payment in advance before proceeding with the work, or satisfactory security or guarantees that invoices will be promptly paid when due, or, at its option, without prejudice to other lawful remedies, may defer delivery or cancel the Contract.

(d) Delay. If delivery is delayed by Buyer, which delay must be consented to by Seller, Seller may store the Products in accordance with subsection 8(e) "Storage" below and Seller may submit a new estimate of cost for completion based on prevailing conditions. Payments shall become due from the date on which Seller is prepared to deliver the Products and storage shall be the Buyer's risk and expense as provided in subsection 8(g) "Storage" below. If manufacture is delayed by Buyer for any cause, a partial payment based upon the proportion of the order completed shall become due from the date on which Seller is notified of the delay.

(e) Late Payment Charge. Buyer shall pay a late payment charge on all amounts not paid in full when due at the rate of one and one half percent (1.5%) per month or at the maximum legally permissible rate, whichever is lower.

(f) Exceptions. Supplement A to these Terms and Conditions lists Seller business units for which payment terms vary from payment terms set forth in this Section 7.

8. DELIVERY; TITLE TRANSFER; RISK OF LOSS/DAMAGE:

(a) Delivery – U.S. Buyer. For sales in the U.S. that do not involve export from the U.S., Seller shall deliver Products to Buyer EXW Seller's U.S. point of shipment (Incoterms® 2010). The point of shipment shall be the shipping dock of Seller's factory, warehouse or other facility that Seller designates as its discretion as point of shipment from time to time.

(b) Sales Involving Exports from U.S.

- (1) Delivery -- U.S. Buyer; Subsequent Drop Shipment to Location Outside U.S.** For sales, in the U.S. to a U.S. Buyer, which involve drop shipment at Buyer's request and/or on Buyer's behalf, to a location outside the U.S., Seller shall deliver the Products to Buyer EXW Seller's U.S. point of shipment (Incoterms® 2010). The point of shipment shall be the shipping dock of Seller's factory, warehouse or other facility that Seller designates at its discretion as its point of shipment from time to time. Buyer is responsible for all transportation charges incurred after delivery of the Products to the carrier or Buyer at the point of shipment and shall reimburse Seller for any transit insurance or freight pre-paid for the Products by Seller. Buyer shall bear the risk of loss and/or damage in transportation. Buyer is responsible for filing any export documents required for export from the U.S.
- (2) Delivery – Non-U.S. Buyer; Routed Export Transactions.** For sales in the U.S. to a non-U.S. Buyer, Seller shall deliver Products to Buyer's freight forwarder EXW Seller's U.S. point of shipment (Incoterms® 2010). The point of shipment shall be the shipping dock of Seller's factory, warehouse or other facility that Seller designates at its discretion as its point of shipment from time to time. In a "Routed Export Transaction," as defined in the U.S. Census regulations, 15 CFR Section

30.3, where Buyer is a non-U.S. entity, Buyer shall authorize Buyer's designated freight forwarder or Seller to facilitate the export of the Products from the U.S. and to prepare and file export documentation with respect to such export transaction (hereafter, to "*Facilitate the Export*"). If Buyer authorizes its designated freight forwarder to *Facilitate the Export*, Buyer's freight forwarder shall provide Seller with a copy of the final export documentation and proof of filing. If Buyer authorizes Seller to *Facilitate the Export*, Buyer shall cause Buyer's freight forwarder to provide Seller the information needed by Seller to *Facilitate the Export*. Buyer shall give timely notice to Seller identifying whom it has designated to *Facilitate the Export*.

(c) Delivery Dates. Delivery dates are approximate, are not guaranteed and are based upon prompt receipt by Seller from Buyer of all necessary shipping and other information. Seller may deliver in advance of the delivery schedule. Seller reserves the right to make delivery in installments, with all installments to be separately invoiced and paid for by Buyer when due per invoice, without regard to subsequent deliveries. Delivery of the Products to a commercial carrier at the shipping point shall constitute delivery to Buyer.

(d) Title Transfer. Title to Products shall pass to Buyer upon the earlier of delivery of the Products to the carrier or Buyer at the point of shipment in accordance with subsection (a) above, except that, for Routed Export Transactions, title shall transfer to Buyer upon delivery to Buyer's designated freight forwarder. Subject to applicable law, Seller, upon notice to Buyer, may retain title to the Products until such time as Seller receives payment in full from Buyer. Title to Software shall not pass to Buyer and is subject to the applicable license.

(e) Risk of Loss/Damage. Risk of loss and/or damage shall pass to Buyer upon delivery in accordance with subsection (a) above, except that, for Routed Export Transactions, risk of loss and/or damage shall pass upon delivery of the Products to Buyer's designated freight forwarder.

(f) Delivery by Seller's Carrier. Where the parties agree that delivery shall be made at a location other than Seller's point of shipment, where Seller will deliver using its carrier or Seller's privately owned or leased trucks, unloading at the agreed location shall constitute delivery to Buyer. Freight and handling charges by Seller may not reflect actual freight charges prepaid to the carrier by Seller due to incentive discounts earned by Seller based upon Seller's aggregate volume of freight tendered to a carrier or when a carrier must be used which charges a rate which is different than the rate upon which Seller's freight and handling charges were based. When shipments are delivered in Seller's privately owned or leased trucks, Buyer will be charged an amount approximating the prevailing common carrier rate.

(g) Storage. In the event that Buyer is unable to accept delivery of the Products at time of shipment, Seller shall invoice Buyer for the full purchase price as if shipment had been made and: (i) if Seller is able to store such Products in its own facilities, Buyer will pay Seller the reasonable handling and storage charges for the period of such storage, or (ii) if Seller is unable to store such goods at its own facility, Seller reserves the right to arrange handling and storage in a suitable bonded warehouse for Buyer at Buyer's expense. In cases where handling and storage become necessary, it shall be Buyer's responsibility to notify Seller when shipment is to be made. Seller will make necessary arrangements for shipment at Buyer's expense.

9. EXCUSABLE DELAYS; FORCE MAJEURE:

(a) Excuse of Performance. Seller shall not be liable for any ordinary, incidental, or consequential loss or damage as a result of Seller's delay in or failure of delivery, or installation of Products or performance of Services due to (i) any cause beyond Seller's reasonable control, (ii) an act of God, act of Buyer, embargo or other government act, authority, regulation or request, fire, theft, accident, strike, slowdown or other labor disturbance, war, armed conflict, act or threat of terrorism, riot, epidemic, delay in transportation, or (iii) inability to obtain necessary labor, materials, components, or facilities. Should any of the aforementioned events occur,

Seller, at its option, may cancel Buyer's order with respect to any undelivered Products or incomplete Services or extend the delivery date for a period equal to the time lost because of delay. Notice of such election shall be given promptly to Buyer. In the event Seller elects to so cancel the Contract, Seller shall be released of and from all liability for failure to deliver the Products or to perform the Services, including, but not limited to, any and all claims on behalf of Buyer for lost profits, or any other claim of any nature which Buyer might have. If shipping or progress of the work is delayed or interrupted by Buyer, directly or indirectly, Buyer shall pay Seller for all additional charges resulting therefrom.

(b) Allocation. If Seller determines that its ability to meet the demand for products, including the Products, or to obtain labor, materials, components or facilities is hindered, limited or made impracticable due to causes set forth in subsection (a) above, Seller may allocate its available supply of products, including the Products, among itself and its purchasers on such basis as Seller determines to be equitable without liability for any failure of performance which may result therefrom.

10. LIMITED WARRANTY.

(a) Scope and Period.

- (1) Products.** Seller warrants that the Products shall be delivered free from defects in material, workmanship and title and shall conform to Seller's specification agreed upon in a written and signed agreement by Buyer and Seller, if applicable, for the Products. This warranty shall expire twelve (12) months from first use of the Product or eighteen (18) months from date of manufacture of the Product, whichever occurs first.
- (2) Repaired and/or Replaced Products and/or Parts of Products.** Seller warrants that the repaired or replaced Products or parts of Products shall be delivered free from defects in material, workmanship and title. In the case of repaired or replaced Products or parts of Products comprising warranty remedies for Products, this warranty shall expire upon expiration of the warranty period applicable to the Products originally supplied by Seller. In the case of other repaired or replaced Products or parts of Products, this warranty shall expire twelve (12) months from the date of repair or manufacture of the Products or parts of the Products.
- (3) Services.** Seller warrants that the Services shall be performed in a competent and diligent manner in accordance with any mutually agreed specification. This warranty shall expire ninety (90) days from the date of completion of such Services.
- (4) Software.** Seller warrants that the Software shall execute, at time of delivery, in accordance with the specification agreed upon in a written and signed agreement by Buyer (as licensee) and Seller (as licensor) when properly installed in the Products. The warranty shall expire six (6) months from date of manufacture of the first Product in which the Software is loaded.
- (5) Applicability.** This warranty shall apply to any Products and/or Software bought, acquired, and/or used by an entity that, or person who, acquires the Products and/or Software from Buyer (a "Transferee"), except that any claim made against Seller pursuant to this warranty shall be made by Buyer only. Seller shall not be bound by this Section 10 to satisfy a claim under this Section made against Seller by a Transferee, whether such Transferee is a direct or indirect Transferee of Buyer, Buyer shall provide any Transferee of a Product or Software written conspicuous notice of Sections 10 and 11 hereof.

- (6) **Exceptions.** Supplement B to these Terms and Conditions lists Seller Products, parts, Services and Software for which Seller's warranties vary from the warranties set forth in this subsection 10(a).

(b) **Remedies.**

- (1) **Products.** If, prior to expiration of the warranty period set forth in subsection 10(a)(1), above, any Products shall be proved to Seller's satisfaction to be defective or nonconforming with the warranty set forth therein, Seller will repair or replace such defective Products or components thereof, FCA Seller's factory, warehouse or other facility that Seller designates at its discretion as point of shipment from time to time (Incoterms® 2010), or will refund or provide Buyer with a credit in the amount of the purchase price paid therefor by Buyer, at Seller's sole option. Buyer's exclusive remedy and Seller's sole obligation under this warranty shall be limited to such repair or replacement, FCA factory, warehouse or other facility that Seller designates at its discretion as point of shipment from time to time (Incoterms® 2010), or refund or credit by Seller, and shall be conditioned upon Seller's receiving written notice of any defect and/or nonconformance within a reasonable period of time, but in no event more than thirty (30) days, after it was discovered or by reasonable care should have been discovered. All claims not made in writing and received by Seller within such thirty (30) day period shall be deemed waived. In no event shall Seller's liability for such defective or nonconforming Products exceed the purchase price paid by Buyer for such Products. With prior approval from Seller, Buyer shall return the alleged defective Product or part, freight prepaid, for Seller's inspection, and no other Products shall be returned to any Seller office, factory, warehouse, authorized service center or other facility, without Seller's written consent.
- (2) **Repaired and/or Replacement Products and/or Parts of Products.** If prior to the expiration of the applicable warranty period set forth in subsection 10(a)(2) above, any replacement Products and/or parts of Products shall be proved to Seller's satisfaction to be defective or nonconforming with the warranty set forth therein, the remedy set forth in subsection 10(b)(1) above shall apply to such replacement Products and/or parts of Products.
- (3) **Services.** If, prior to expiration of the warranty period set forth in subsection 10(a)(3), above, any Services shall be proved to Seller's satisfaction to be nonconforming with the warranty set forth therein, Seller will re-perform such nonconforming Services. If the Services cannot be re-performed, Seller, at its option, shall refund or credit monies paid by Buyer for such nonconforming Services.
- (4) **Software.** If, prior to expiration of the warranty period set forth in subsection 10(a)(4) above, (i) Buyer provides, in writing, a complete description of the claimed nonconformance in the Software, and (ii) the Software is proven to Seller's satisfaction to be so nonconforming with the warranty set forth therein, Seller will correct the nonconformance by, at its option: (i) modifying or making available to Buyer instructions for modifying the program causing such nonconformance, or (ii) making available a corrected or replacement program FCA Seller's factory, warehouse or other facility that Seller designates at its discretion as point of shipment from time to time (Incoterms® 2010).

(c) **Exclusions** - The warranties set forth in this Section 10 do not cover:

- (1) shipping expenses to and from Seller's office, factory, warehouse, authorized service center or other destination designated by Seller for repair or replacement of defective

Products or any tax, duty, custom, inspection or testing fee, or any other charge of any nature related thereto;

- (2) costs of removing defective Products from, and/or disassembling, equipment in which Products are assembled or reinstalling Products and/or reassembling such equipment, or testing repaired or replaced Products and/or the equipment;
- (3) field service travel and living costs and expenses;
- (4) Products subjected to abuse, neglect, negligence, misuse, misapplication, accident, damages by circumstances beyond Seller's control, improper installation (if by anyone other than Seller), improper operation (including, but not limited to, operation in excess of rated capacity or otherwise not in accordance with installation, maintenance, or operating instructions or requirements) improper maintenance, improper storage, and/or any other than normal use or service;
- (5) Products maintained, serviced, repaired or altered by anyone other than Seller or Seller's authorized service agencies;
- (6) Products and/or parts not manufactured by Seller; for Products furnished by Seller, but manufactured by others, Seller will assign to Buyer the written warranty, if any, of the manufacturer, if assignment is reasonably practicable; however, Seller does not adopt or guarantee or represent that the manufacturer will comply with any of the terms of the warranty of such manufacturer; but, in no event shall Seller's obligations be greater than those provided under Seller's warranty set forth in this Section 10; and/or
- (7) failures of the Software to be interruption-free or error-free or to meet Buyer's or any other party's requirements; and, problems caused by use of the Software in conjunction with third-party software, hardware, or products.

(d) DISCLAIMER: THE FOREGOING WARRANTIES ARE IN LIEU OF ALL OTHER EXPRESS AND IMPLIED WARRANTIES, ARISING BY OPERATION OF LAW OR OTHERWISE, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHETHER OR NOT THE PURPOSE OR USE HAS BEEN DISCLOSED TO SELLER IN SPECIFICATIONS, DRAWINGS, OR OTHERWISE AND WHETHER OR NOT SELLER'S PRODUCTS ARE SPECIFICALLY DESIGNED AND/OR MANUFACTURED BY SELLER FOR BUYER'S USE OR PURPOSE. NO EMPLOYEE, REPRESENTATIVE, OR AGENT OF SELLER OTHER THAN AN OFFICER OF SELLER IS AUTHORIZED TO ALTER OR MODIFY ANY PROVISION OF THIS SECTION 10 OR TO MAKE ANY GUARANTEE, WARRANTY, OR REPRESENTATION, EXPRESS OR IMPLIED, ORALLY OR IN WRITING, WHICH IS CONTRARY TO THE FOREGOING. Except where Buyer and Seller agree in a written and signed agreement upon the specifications applicable to the Products, Software, and/or Services, any description of the Products, Software, and/or Services, whether in writing or made orally by Seller or Seller's agents, specifications, samples, models, bulletins, drawings, diagrams, engineering sheets or similar materials used in connection with Buyer's order are for the sole purpose of identifying the Products and shall not be construed as an express or implied warranty. Any suggestions by Seller or Seller's agents regarding use, application or suitability of the Products shall not be construed as an express or implied warranty unless confirmed to be such in writing by Seller's authorized officer.

11. LIMITATIONS OF REMEDY AND LIABILITY:

(a) Breach of Warranty Claims. Buyer's only remedy for breach of any warranty under the Contract, other than the warranty provided under Section 13 "Intellectual Property Indemnity,"

shall be the applicable remedy set forth in Section 10 “Limited Warranty” above. Seller’s total liability for any and all breach of warranty claims under the Contract shall not exceed the purchase price allocable to the Product, Software or Service or part thereof which gives rise to the claim.

(b) Other Claims. Seller’s liability for any claim other than a breach of warranty claim under Section 10 “Limited Warranty,” whether in contract, negligence, tort, strict liability, indemnity or otherwise for any loss or damage arising out of, connected with, or resulting from the Contract or the performance or breach thereof, or from the design, manufacture, sale, delivery, resale, repair, replacement, installation, technical direction of installation, inspection, operation or use of any Products covered by or furnished under the Contract or from Services rendered under the Contract, shall in no case (except as provided in Section 13 “Intellectual Property Indemnity”) exceed five percent (5%) of the purchase price allocable to the Products or part thereof or Services giving rise to the claim.

(c) Consequential Damage Disclaimer. SELLER SHALL NOT BE LIABLE FOR AND DISCLAIMS ALL CONSEQUENTIAL, INCIDENTAL, CONTINGENT, SPECIAL OR PUNITIVE DAMAGES WHATSOEVER. Seller shall not be liable for lost profits or revenues, loss of use of the Products, Software or any related equipment or systems, cost of capital, cost of substitute products, cost of facilities or services, business interruption, downtime, shutdown, or slowdown costs, any other types of economic loss, penalties, special or punitive damages, and claims of Buyer’s customers for any such damages.

(d) Expiration of Claims. All claims against Seller arising out of or related to the Contract or the performance or breach thereof shall expire unless made and presented to Seller in writing by Buyer before expiration of the applicable warranty period.

(e) Precedence. The limitations of this Section shall apply regardless of whether a claim is based in contract, tort (including negligence), warranty, strict liability, intellectual property, or otherwise, and shall take precedence over any conflicting terms and conditions, except where the limitations of liability of such conflicting terms limit Seller’s liability further.

12. INDEMNITY:

(a) Third party claims. Each of Buyer and Seller (each an “Indemnified Party” and an “Indemnifying Party”) shall indemnify the other party from and against claims brought by a third party, for bodily injury or damage to the third party’s tangible property, to the extent such injury and/or damage is caused by the negligence of the Indemnifying Party, provided that the Indemnified Party gives the Indemnifying Party prompt notice of any such claim and all necessary information and assistance so that the Indemnifying Party, at its option, may defend or settle such claim and the Indemnified Party does not take any adverse position in connection with such claim. In the event that the injury or damage is caused by joint or concurrent negligence of Buyer and Seller, the loss or expense shall be borne by each party in proportion to its degree of negligence. For purposes of Seller’s indemnity obligations hereunder, Products shall not be considered third party property and the facility in which a Product or Software is used and/or the Services are performed shall not be considered third party property.

(b) Indemnity by Buyer for Third Party Warranty Claims. If Buyer supplies Products or Services to a third party, uses Products or Services at a facility owned by a third party, and/or transfers Products and/or Software to a third party, Buyer shall indemnify and defend Seller from and against any and all claims by, and liability to, any such third party in excess of the limitations set forth in Sections 10 “Limited Warranty” and 11 “Limitations of Remedy and Liabilities.” For purposes of this subsection (b), “Seller” means Seller, its affiliates, suppliers, contractors, licensors and their employees.

13. INTELLECTUAL PROPERTY INDEMNITY: Seller warrants that, to the best of its knowledge, Products, Services and/or Software furnished hereunder, and any part thereof, (each a “Delivered Item”) shall be delivered free of any rightful claim of any third party not affiliated with Buyer for infringement of any U.S. patent, any trademark registered in the U.S. Patent and Trademark Office and/or any copyright registered in the U.S. Copyright Office. Seller will, at its own expense, defend or settle any suits that may be instituted against Buyer for alleged infringement by the Delivered Item of any U.S. patent, any trademark registered in the U.S. Patent and Trademark Office and/or any copyright registered in the U.S. Copyright Office provided that: (a) such alleged infringement consists of the use of the Delivered Item for (i) any of the purposes for which Buyer informed Seller such Delivered Items would be used, or (ii) if Buyer did not so inform Seller, any of the purposes for which Buyer reasonably believed such Delivered Items would be used; (b) Buyer shall have made all payments for such Delivered Items then due hereunder; (c) Buyer shall give Seller immediate notice in writing of any such suit and transmit to Seller immediately upon receipt of all processes and papers served upon Buyer; (d) Buyer does not take any position adverse to Seller in connection with such claim; and (e) Buyer shall permit Seller through Seller’s counsel, either in the name of Buyer or in the name of Seller, to defend such suit(s) and give all needed information, assistance and authority to enable Seller to do so.

In case of a final award of damages in any such suit, Seller will pay such award but will not be responsible for any compromise or settlement made without its written consent. In case the Delivered Item itself is in such suit held to infringe any valid patent issued in the United States and/or a trademark and/or copyright registered in the United States, and its use is enjoined, or in the event of a settlement or compromise approved by Seller which shall preclude future use of the Delivered Item, Seller shall, at its own expense and at its sole option, either: (a) procure rights to continue using such Delivered Item; (b) modify the Delivered Item to render it non-infringing; (c) replace the Delivered Item with a non-infringing Product and/or Software; or (d) refund the purchase price paid by Buyer for the Delivered Item after return of the Delivered Item to Seller (less reasonable depreciation for any period of use). Notwithstanding the foregoing, Seller shall not be held responsible for claims of infringement of any patents covering the use of the Delivered Item in combination with other goods or materials not furnished by Seller.

The foregoing states the entire liability of Seller for intellectual property infringement, and **IN NO EVENT SHALL SELLER BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES ATTRIBUTABLE TO AN INTELLECTUAL PROPERTY INFRINGEMENT.** Buyer, at its own expense, shall defend Seller against, and/or settle, (a) any patent, trademark, copyright or other intellectual property infringement claim pertaining to a Delivered Item furnished by Seller to Buyer manufactured in accordance with designs, drawings or other descriptions proposed or furnished by Buyer; and (b) any claim against Seller of contributory infringement resulting from the use or resale by Buyer of a Delivered Item sold hereunder. Buyer shall indemnify Seller for any award against Seller or settlement by Seller regarding any such claims and attorneys’ fees and defense costs incurred in defense of such claims.

14. SOFTWARE LICENSE:

(a) License Grant: Seller grants Buyer a nonexclusive, royalty-free, perpetual, limited license to use the Software in the U.S. and solely in conjunction with (a) the operation of the Products purchased and sold under the Contract and/or other product meeting Seller’s specifications; and (b) any other purpose agreed upon in a written and signed agreement between Buyer and Seller.

(b) Scope of License: Upon Seller’s prior written approval, Buyer may make a reasonable number of copies of Software as necessary for backup, configuration, installation, and restoration of the Products. Also upon Seller’s prior written approval, Buyer may authorize a third-party contractor or service provider to exercise these rights on Buyer’s behalf and for Buyer’s benefit. Buyer may transfer possession of Software and its media to another party only in conjunction with the transfer of the Products on which the Software is loaded and only upon agreement of the other party to the terms and conditions of the Contract. Upon such transfer, Buyer shall destroy all Buyer’s copies of Software and related documentation. All licenses and grants pursuant to the Contract shall immediately terminate once Buyer no longer rightfully owns or possesses the

Products. No other rights under this license are granted. Upon Seller's request, Buyer shall provide Seller with written notice of any such transfer providing the name, address, and contact information of the subsequent Buyer within 15 days of such transfer.

(c) Use Restrictions: Buyer shall not (a) copy, display, transfer, adapt, modify, or distribute in any form the Software except as set forth in the Contract or in Seller documentation provided by Seller to Buyer with the Software; (b) reverse engineer, disassemble, decompile, or otherwise translate the Software's object code, unless expressly permitted by applicable law without the possibility of contractual waiver; or (c) sublicense or lease the Software or any copy thereof except with the transfer of the Products on which the Software is loaded. Except as provided under the terms of Seller's standard escrow agreement between Seller and Buyer, if applicable, Buyer shall not make available to any party, without prior written consent from Seller or its authorized agent, source code for the Software. Buyer shall not, directly or indirectly, export or re-export, or knowingly permit the export or re-export of, the Products, or any technical information about the Products, to any country for which the United States Export Administration Act, any regulation thereunder, or any similar United States law or regulation, requires an export license or other United States Government approval, unless Buyer obtains the appropriate export license and obtains written approval from Seller.

(d) Maintenance and Support: Seller may offer to Buyer the option to purchase from Seller annual Software maintenance and support services under the terms and conditions of Seller's then-standard maintenance and support agreement. Buyer may renew this maintenance term at Seller's then-current maintenance rates. In the event Buyer purchases additional Software licenses, maintenance fees for such licenses shall be prorated to be coterminous with Buyer's existing maintenance period. In no event shall Seller be responsible for providing maintenance services for a period during which maintenance coverage is lapsed.

15. SECURITY AGREEMENT AND FINANCING STATEMENTS: As security for payment of the purchase price under the Contract, Buyer hereby irrevocably grants Seller a security interest in the Products purchased by Buyer, together with all accessories, attachments and replacement parts and all substitutions, replacements and proceeds thereof to secure payment of the purchase price and of all monies which may be due under the Contract. Buyer hereby authorizes Seller to file all financing statements, any amendments and continuations thereof, or any other documents necessary or reasonably required, for the perfection and protection of a security interest under applicable law, and to deliver notice to prior holders of security interests, of Seller's security interest in the Products to protect its interest.

16. INSURANCE: Until payment in full of the purchase price, Buyer shall maintain insurance covering all Products sold by Seller to Buyer in such amounts and against such risks as is customary by companies engaged in the same or similar business and similarly located, and shall, upon Seller's request, furnish evidence of such insurance satisfactory to Seller.

17. DRAWINGS; OTHER DESIGN DATA: All specifications, drawings, designs, data, information, ideas, methods, product samples, tools, gages, dies, fixtures, patterns and/or inventions made, conceived, developed or acquired by Seller in connection with procuring and/or executing the Contract will vest in and inure to Seller's sole benefit notwithstanding any charges therefor which may have been or may be imposed by Seller on Buyer. Buyer shall not give, loan, exhibit, sell or transfer to any person who is not a Buyer employee and authorized to receive such information, or to any organization or entity, any drawing, photograph, specification or product sample furnished by Seller or reproduction thereof which may enable such person, organization or entity to furnish similar products or parts therefor.

18. RETURN OF PRODUCTS: No Product or part shall be returned to Seller without written authorization and shipping instructions first having been obtained from Seller.

19. ASSIGNMENT AND SUBCONTRACTING: None of Buyer's rights under the Contract shall be assigned by Buyer to any other person, whether by operation of law or otherwise, without Seller's prior

written approval. Seller may, without the necessity of obtaining Buyer's prior written consent, assign the Contract or subcontract the production of all or any portion of the Products and/or performance of the Services.

20. CANCELLATION: No purchase order submitted to Seller may be cancelled by Buyer without the prior written consent of Seller, which consent will at all times be conditioned on Buyer's agreement to pay Seller's cancellation charge. For a finished Product that, in Seller's judgment, is readily resalable to others, the cancellation charge shall be 15% of the invoice price of the Product. For all other cancellations, the cancellation charge shall amount to all cost and expenses incurred by Seller and arising out of or in connection with Buyer's purchase order plus reasonable profit. In no event shall the cancellation charge be less than 10% of the invoice price of the Product or more than the invoice price.

21. HIGH RISK APPLICATION USE DISCLAIMER: PRODUCTS AND SERVICES SOLD BY SELLER ARE NOT INTENDED FOR USE IN CONNECTION WITH ANY NUCLEAR FACILITY OR ACTIVITY, CRITICAL SAFETY SYSTEM, MEDICAL DEVICE, MILITARY DEVICE, SATELLITE, AVIATION EQUIPMENT, AIR TRAFFIC CONTROL EQUIPMENT, OR OTHER HIGH RISK APPLICATIONS (COLLECTIVELY, "HIGH RISK APPLICATIONS"). SELLER SHALL NOT USE OR PERMIT OTHERS TO USE PRODUCTS OR SERVICES FOR SUCH HIGH RISK APPLICATIONS WITHOUT SELLER'S PRIOR WRITTEN CONSENT. IF SO USED WITHOUT SELLER'S PRIOR WRITTEN CONSENT, SELLER DISCLAIMS ALL LIABILITY FOR ANY DAMAGE, INJURY OR CONTAMINATION, AND BUYER SHALL INDEMNIFY AND HOLD SELLER, ITS OFFICERS, AGENTS, EMPLOYEES, SUCCESSORS, ASSIGNS AND CUSTOMERS HARMLESS FROM AND AGAINST ANY AND ALL SUCH LIABILITY. SELLER'S CONSENT, IF ANY, WILL BE CONDITIONED UPON ADDITIONAL TERMS AND CONDITIONS ACCEPTABLE TO SELLER.

22. GOVERNING LAW; VENUE: These Terms and Conditions and the Contract shall be governed by and construed in accordance with the laws of the State of Wisconsin. Seller and Buyer irrevocably submit to the exclusive jurisdiction of the state courts located in Rock County, State of Wisconsin and the federal courts located in the State of Wisconsin, and Seller and Buyer waive any objection to venue or *forum non conveniens*, for the resolution of any dispute relating to these Terms and Conditions or the Contract. The rights and obligations of Seller and Buyer shall not be governed by the provisions of the United Nations Convention on Contracts for the Internal Sale of Goods.

23. EXPORT/IMPORT: Buyer shall comply, in the receipt and use of the Products and the Software, with all applicable import and export control laws, regulations, orders and requirements of the jurisdictions in which the Seller and Buyer are established or from which Products and Software are provided. Buyer shall not transfer, release, import, or export Products and/or Software in violation of such applicable laws, regulations or other legal requirements. Buyer shall provide a completed end-user certification in a form satisfactory to Seller upon Seller's request.

24. ATTORNEYS' FEES: Buyer agrees to pay all of Seller's costs and expenses of collection and related litigation, including but not limited to attorneys' fees and costs.

25. SALVATORY CLAUSE: The invalidity, in whole or in part, of any of the provisions of these Terms and Conditions, shall not affect the enforceability of any of the other provisions thereof.

26. APPLICABILITY: These Terms and Conditions as stated herein are applicable as of the date of this printing and until such time as changed by Seller.

**TERMS AND CONDITIONS OF SALE
SUPPLEMENT A
Terms of Payment -- Exceptions**

In accordance with section 7(f) "Exceptions," the following sets forth substitute language for Section 7(a) "Terms" for certain business units as follows:

Regal business unit:	Substitute subsection 7(a) with the following:
Unico, Inc.	(a) Terms. [As provided by Unico.]

**TERMS AND CONDITIONS OF SALE
SUPPLEMENT B
Limited Warranty -- Exceptions**

The following table sets forth substitute language for Section 10(a) (1) "Products" applicable to certain Products of certain business units.

Regal entity and business unit:	If Products are:*	Substitute Section 10(a)(1) with the following:
Regal Beloit America, Inc., Marathon Generators	standby generators	Seller warrants that the Products shall be delivered free from defects in material, workmanship and title and shall conform to Seller's written specification agreed upon by Buyer and Seller in a written and signed agreement, if applicable, for the Products. This warranty shall expire twenty-four (24) months from first use of the Product, thirty (30) months from date of manufacture of the Product, or upon one thousand (1000) hours in use of the Product, whichever occurs first.
Regal Beloit America, Inc., Marathon Motors	Blue Chip® Severe Duty Explosion Proof and EPAAct compliant motors	Seller warrants that the Products shall be delivered free from defects in material, workmanship and title and shall conform to Seller's written specification agreed upon by Buyer and Seller in a written and signed agreement, if applicable, for the Products. This warranty shall expire twenty-four (24) months from first use of the Product or thirty (30) months from date of manufacture of the Product, whichever occurs first.
Regal Beloit America, Inc., Marathon Motors	Blue Max®, Black Max®, microMAX™ Inverter Duty motors and all XRI® motors	Seller warrants that the Products shall be delivered free from defects in material, workmanship and title and shall conform to Seller's written specification agreed upon by Buyer and Seller in a written and signed agreement, if applicable, for the Products. This warranty shall expire thirty-six (36) months from first use of the Product or forty (42) months from date of manufacture of the Product, whichever occurs first.
Regal Beloit America, Inc., Marathon Motors	U-Frame Automotive Duty and IEEE-841 motors	Seller warrants that the Products shall be delivered free from defects in material, workmanship and title and shall conform to Seller's written specification agreed upon by Buyer and Seller in a written and signed agreement, if applicable, for the Products. This warranty shall expire sixty (60) months from first use of the Product or sixty-six (66) months from date of manufacture of the Product, whichever occurs first.
Regal Beloit America, Inc. Leeson	EPACT motors ("G" prefix)	Seller warrants that the Products shall be delivered free from defects in material, workmanship and title and shall conform to Seller's written specification agreed upon by Buyer

		and Seller in a written and signed agreement, if applicable, for the Products. This warranty shall expire twenty-four (24) months from first use of the Product or thirty (30) months from date of manufacture of the Product, whichever occurs first.
Regal Beloit America, Inc., Leeson	Wattsaver Premium Efficiency three phase motors and Speedmaster Inverter-Duty motors	Seller warrants that the Products shall be delivered free from defects in material, workmanship and title and shall conform to Seller's written specification agreed upon by Buyer and Seller in a written and signed agreement, if applicable, for the Products. This warranty shall expire thirty-six (36) months from first use of the Product or forty-two (42) months from date of manufacture of the Product, whichever occurs first.
Regal Beloit America, Inc., Leeson	motor brakes provided as coupler brakes, brake kits, or as part of brake motors	For Products furnished by Seller, but manufactured by others, Seller will assign to Buyer the written warranty, if any, of the manufacturer, if assignment is reasonably practicable. However, Seller does not adopt or guarantee or represent that the manufacturer will comply with any of the terms of the warranty of such manufacturer.
Regal Beloit America, Inc., Genteq Hermetic	Partial Motors (a "Partial Motor" is a motor that, at time of sale, is a new electric motor less a main frame or end frame)	Seller warrants that the Products shall be delivered free from defects in material, workmanship and title and shall conform to Seller's written specification agreed upon by Buyer and Seller in a written and signed agreement, if applicable, for the Products. This warranty shall expire the date that Buyer completes assembly of the Product in Buyer's unit or twelve (12) months from date of manufacture of the Product, whichever occurs first.
Regal Beloit America, Inc., Durst, Mastergear, Grove Gear, Velvet Drive Transmissions/Industrial; Hub City, Inc.	All Products	Seller warrants that the Products shall be delivered free from defects in material, workmanship and title and shall conform to Seller's written specification agreed upon by Buyer and Seller in a written and signed agreement, if applicable, for the Products. This warranty shall expire twelve (12) months from date of shipment of the Product.
Regal Beloit America, Inc., Velvet Drive Transmissions/Marine		Seller warrants that the Products shall be delivered free from defects in material, workmanship and title and shall conform to Seller's specification agreed upon in a written and signed agreement by Buyer and Seller, if applicable, for the Products. This warranty shall expire twelve (12) months from first use of the Product or twenty-four (24) months from date of shipment of the Product, whichever occurs first.
Regal Beloit America, Inc., Milwaukee Gear	All Products	Seller warrants that the Products shall be delivered free from defects in material, workmanship and title and shall conform to Seller's written specification agreed upon by Buyer and Seller in a written and signed agreement, if applicable, for the Products. This warranty shall

		expire three (3) months from date of manufacture of the Product.
Unico, Inc.	All Products	Seller warrants that the Products shall be delivered free from defects in material, workmanship and title and shall conform to Seller's written specification agreed upon by Buyer and Seller in a written and signed agreement, if applicable, for the Products. This warranty shall expire twelve (12) months from date of manufacture of the Product for Products that are electrical and electronic assemblies and twenty-four (24) months from date of manufacture of the Product for Products that are mechanical apparatus. For Products furnished by Seller, but manufactured by others, the foregoing shall not apply and Seller will assign to Buyer the written warranty, if any, of the manufacturer, if assignment is reasonably practicable. However, Seller does not adopt or guarantee or represent that the manufacturer will comply with any of the terms of the warranty of such manufacturer.
Regal Beloit America, Inc., HVAC and Distribution	Evergreen® replacement motors	Seller warrants that the Products shall be delivered free from defects in material, workmanship and title and shall conform to Seller's written specification agreed upon by Buyer and Seller in a written and signed agreement, if applicable, for the Products. This warranty shall expire twenty-four (24) months from first use of the Product or thirty (30) months from date of shipment of the Product, whichever occurs first.

* Certain Products are covered by neither the standard warranty described in subsection 10(a)(1) nor this table. Buyer must consult the applicable current product catalog or internet site or Seller directly to confirm the applicable warranty period.

Warnings and Cautions

Electrical

IMPORTANT INFORMATION PLEASE READ CAREFULLY

This catalog is not intended to provide operational instructions. Appropriate LEESON Electric instructions provided with the motor and precautions attached to the motor should be read carefully prior to installation, operation and/or maintenance of the equipment. Injury to personnel or motor failure may be caused by improper installation, maintenance or operation.

The following  **WARNING** and  **CAUTION** information is supplied to you for your protection and to provide you with many years of trouble free and safe operation of your LEESON Electric product:

WARNING

- Disconnect power and lock out driven equipment before working on a motor.
- Always keep hands and clothing away from moving parts.
- The lifting support on the motor is not to be used to lift the entire machine. Only the motor attached directly to the support may be safely lifted by the support.
- Install and ground per local and national codes.
- Discharge all capacitors before servicing a single phase motor.
- Misapplication of a motor in hazardous environments can cause fire or an explosion and result in serious injury. Only the end user, local authority having jurisdiction, and/or insurance underwriter are qualified to identify the appropriate class(es), group(s), division and temperature code LEESON Electric personnel cannot evaluate or recommend what motors may be suitable for use in hazardous environments. If a motor is name plated for hazardous locations, do not operate the motor without all of the grease and drain plugs installed.
- Never attempt to measure the temperature rise of a motor by touch. Temperature rise must be measured by thermometer, resistance, imbedded detector or thermocouple.
- Motors with automatic reset thermal protectors will automatically restart when the protector temperature drops sufficiently. Do not use motors with automatic reset thermal protectors in applications where automatic restart will be hazardous to personnel or equipment.
- Motors with manual reset thermal protectors may start unexpectedly after the protector trips when the surrounding air is at +20° Fahrenheit or lower. If the manual reset protector trips, disconnect motor from its power supply. After the protector cools (five minutes or more), it can be reset and power may be applied to the motor.
- Connect all protective device leads, marked P1, P2, etc., per instructions supplied with the motor.
- Operation of a motor at other than its nameplate rating may result in fire, damage to equipment or serious injury to personnel.
- For safety, Buyer or User should provide protective guards over all shaft extensions and any moving apparatus mounted thereon. The User is responsible for checking all applicable safety codes in his area and providing suitable guards. Failure to do so may result in bodily injury and/or damage to equipment.

CAUTION

- Consult qualified personnel with questions and all electrical repairs must be performed by trained and qualified personnel only.
- For motors nameplated as "belted duty only", do not operate the motor without belts properly installed.
- Motors and/or driven equipment should not be operated faster than their rated speed.
- For inverter applications, follow the inverter manufacturer's installation guidelines.
- Make sure the motor is properly secured and aligned before operation.

In the event of the resale of any of the goods, in whatever form, Resellers/Buyers will include the following language in a conspicuous place and in a conspicuous manner in a written agreement covering such sale:

The manufacturer makes no warranty or representations, express or implied, by operation of law or otherwise, as to the merchantability or fitness for a particular purpose of the goods sold hereunder. Buyer acknowledges that it alone has determined that the goods purchased hereunder will suitably meet the requirements of their intended use. In no event will the manufacturer be liable for consequential, incidental or other damages. Even if the repair or replacement remedy shall be deemed to have failed of its essential purpose under Section 2-719 of the Uniform Commercial Code, the manufacturer shall have no liability to Buyer for consequential damages.

Resellers/Buyers agree to also include this entire document including the warnings and cautions above in a conspicuous place and in a conspicuous manner in writing to instruct users on the safe usage of the product.

This information should be read together with all other printed information supplied by LEESON Electric.

For more information contact: LEESON Electric, 1051 Cheyenne Avenue, Grafton, Wisconsin 53024
Phone: 262-377-8810 or Fax: 262-377-3440



Continued On Next Page

IMPORTANT INFORMATION

PLEASE READ CAREFULLY

The following **WARNING** and **CAUTION** information is supplied to you for your protection and to provide you with many years of trouble free and safe operation of your LEESON Electric product:

Read ALL instructions prior to operating reducer. Injury to personnel or reducer failure may be caused by improper installation, maintenance or operation.

WARNING

- Written authorization from LEESON Electric is required to operate or use reducers in man lift or people moving devices.
- Check to make certain application does not exceed the allowable load capacities published in the current catalog.
- Buyer shall be solely responsible for determining the adequacy of the product for any and all uses to which Buyer shall apply the product. The application by Buyer shall not be subject to any implied warranty of fitness for a particular purpose.
- For safety, Buyer or Users should provide protective guards over all shaft extensions and any moving apparatus mounted thereon. The User is responsible for checking all applicable safety codes in his area and providing suitable guards. Failure to do so may result in bodily injury and/or damage to equipment.
- Hot oil and reducers can cause severe burns. Use extreme care when removing lubrication plugs and vents.
- Make certain that the power supply is disconnected before attempting to service or remove any components. Lock out the power supply and tag it to prevent unexpected application of power.
- Reducers are not to be considered fail safe or self-locking devices. If these features are required, a properly sized, independent holding device should be utilized. Reducers should not be used as a brake.
- Any brakes that are used in conjunction with a reducer must be sized or positioned in such a way so as to not subject the reducer to loads beyond the catalog rating.
- Lifting supports including eyebolts are to be used for vertically lifting the gearbox only and no other associated attachments or motors.
- Use of an oil with an EP additive on units with backstops may prevent proper operation of the backstop. Injury to personnel, damage to the reducer or other equipment may result.
- Overhung loads subject shaft bearings and shafts to stress which may cause premature bearing failure and/or shaft breakage from bending fatigue, if not sized properly.

CAUTION

- Test run unit to verify operation. If the unit tested is a prototype, that unit must be of current production.
- If the speed reducer cannot be located in a clear and dry area with access to adequate cooling air supply, then precautions must be taken to avoid the ingestion of contaminants such as water and the reduction in cooling ability due to exterior contaminants.
- Mounting bolts should be routinely checked to ensure that the unit is firmly anchored for proper operation.

In the event of the resale of any of the goods, in whatever form, Resellers/Buyers will include the following language in a conspicuous place and in a conspicuous manner in a written agreement covering such sale:

The manufacturer makes no warranties or representations, express or implied, by operation of law or otherwise, as to the merchantability or fitness for a particular purpose of the goods sold hereunder. Buyer acknowledges that it alone has determined that the goods purchased hereunder will suitably meet the requirements of their intended use. In no event will the manufacturer be liable for consequential, incidental or other damages. Even if the repair or replacement remedy shall be deemed to have failed of its essential purpose under Section 2-719 of the Uniform Commercial Code, the manufacturer shall have no liability to Buyer for consequential damages.

Resellers/Buyers agree to also include this entire document including the warnings and cautions above in a conspicuous place and in a conspicuous manner in writing to instruct users on the safe usage of the product.

This information should be read together with all other printed information supplied by LEESON Electric.



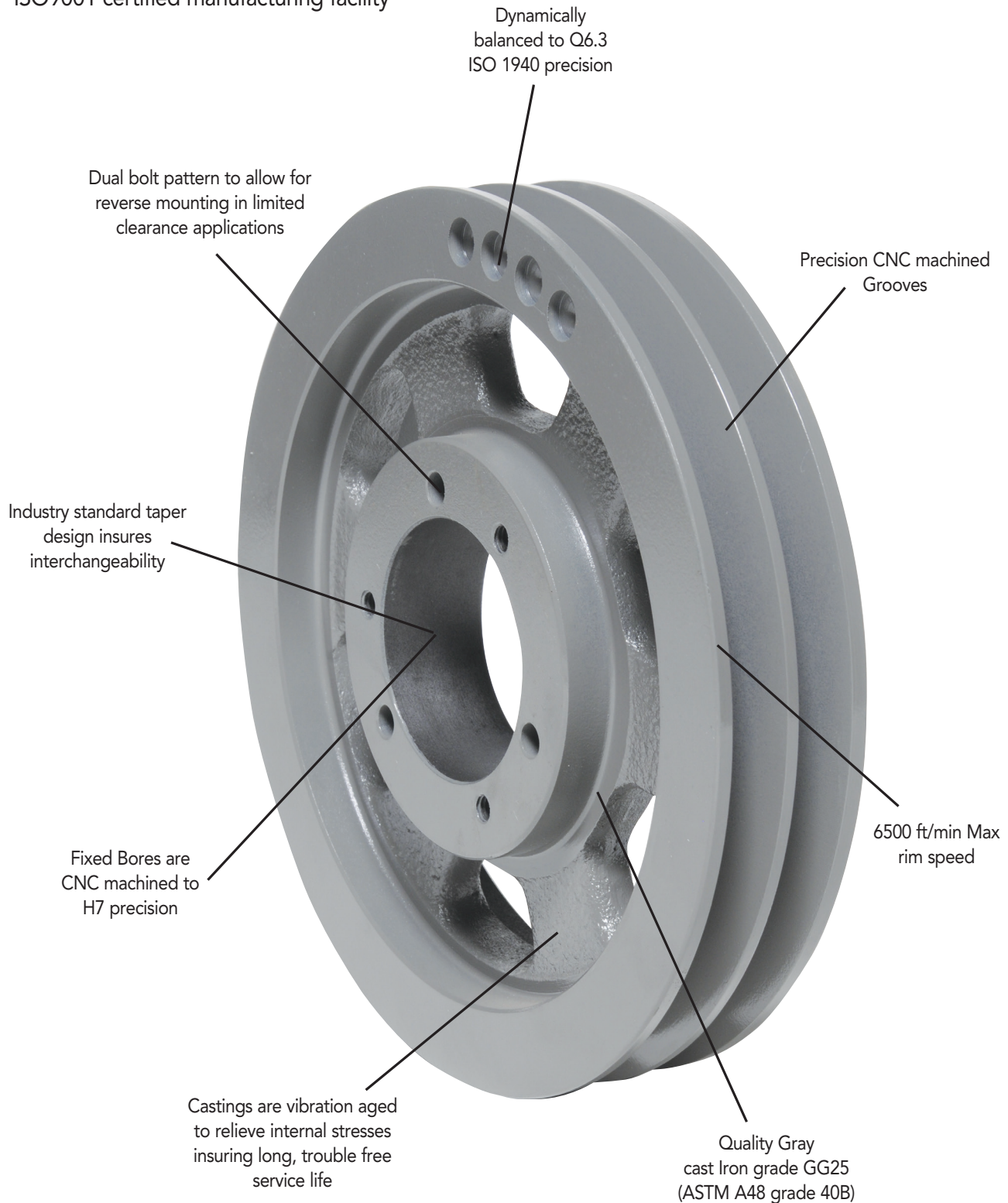
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Pulleys and Sheaves

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One Regal Overview

AC Electric Motor Principles

DC Electric Motor Principles

PMAC Electric Motor Principles

Motor Applications

Power Transmission

Gear Reducer Principles

LEESON.com review

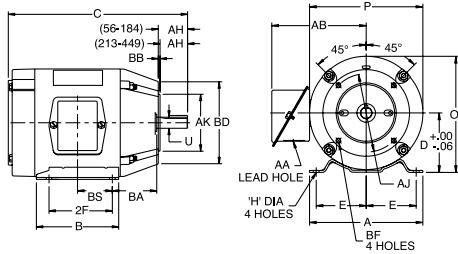
Manufacturing Plant Workshop

Contact your local LEESON Sales office for more information



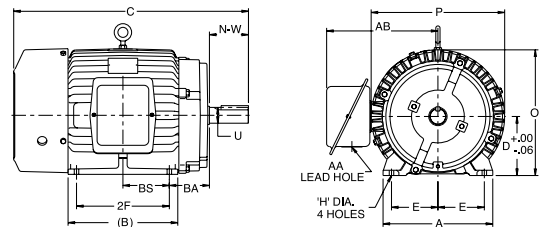
NEMA Quick Reference Dimensional Chart

Typical C-Face Motor



NEMA C-Face	BA Dimensions
143-5TC	2-3/4
182-4TC	3-1/2
213-5TC	4-1/4
254-6TC	4-3/4

Typical Rigid Base Motor



Contact your LEESON sales representative for "AB", "O", & "P" Dimensions.

Refer to your LEESON catalog for "C" Dimensions.

Frame	D	E	2F	H	U	N-W	AA	AH	AJ	AK	BA	BBk (MIN)	BD (MAX)	BF
48	3.00	2.12	2.75	.34 SLOT	.5000	1.50	1/2	1.69	3.750	3.000	2.50	.13	5.62	1/4-20
56	3.50	2.44	3.00	.34 SLOT	.6250	1.88	1/2	2.06	5.875	4.500	2.75	.13	6.50	3/8-16
56H	3.50	2.44	5.00	.34 SLOT	.6250	1.88	1/2	2.06	5.875	4.500	2.75	.13	6.50	3/8-16
143T	3.50	2.75	4.00	.34	.8750	2.25	3/4	2.12	5.875	4.500	2.25	.13	6.50	3/8-16
145T	3.50	2.75	5.00	.34	.8750	2.25	3/4	2.12	5.875	4.500	2.25	.13	6.50	3/8-16
182	4.50	3.75	4.50	.41	.8750	2.25	3/4	2.12	5.875	4.500	2.75	.13	6.50	3/8-16
184	4.50	3.75	5.50	.41	.8750	2.25	3/4	2.12	5.875	4.500	2.75	.13	6.50	3/8-16
182T	4.50	3.75	4.50	.41	1.125	2.75	3/4	2.62	7.250	8.500	2.75	.25	9.00	1/2-13
184T	4.50	3.75	5.50	.41	1.125	2.75	3/4	2.62	7.250	8.500	2.75	.25	9.00	1/2-13
213	5.25	4.25	5.50	.41	1.125	3.00	1	2.75	7.250	8.500	3.50	.25	9.00	1/2-13
215	5.25	4.25	7.00	.41	1.125	3.00	1	2.75	7.250	8.500	3.50	.25	9.00	1/2-13
213T	5.25	4.25	5.50	.41	1.375	3.38	1	3.12	7.250	8.500	3.50	.25	9.00	1/2-13
215T	5.25	4.25	7.00	.41	1.375	3.38	1	3.12	7.250	8.500	3.50	.25	9.00	1/2-13
254U	6.25	5.00	8.25	.53	1.375	3.75	1-1/4	3.50	7.250	8.500	4.25	.25	10.00	1/2-13
256U	6.25	5.00	10.00	.53	1.375	3.75	1-1/4	3.50	7.250	8.500	4.25	.25	10.00	1/2-13
254T	6.25	5.00	8.25	.53	1.625	4.00	1-1/4	3.75	7.250	8.500	4.25	.25	10.00	1/2-13
256T	6.25	5.00	10.00	.53	1.625	4.00	1-1/4	3.75	7.250	8.500	4.25	.25	10.00	1/2-13
284U	7.00	5.50	9.50	.53	1.625	4.88	1-1/2	4.62	9.000	10.500	4.75	.25	11.25	1/2-13
286U	7.00	5.50	11.00	.53	1.625	4.88	1-1/2	4.62	9.000	10.500	4.75	.25	11.25	1/2-13
284T	7.00	5.50	9.50	.53	1.875	4.62	1-1/2	4.38	9.000	10.500	4.75	.25	11.25	1/2-13
286T	7.00	5.50	11.00	.53	1.875	4.62	1-1/2	4.38	9.000	10.500	4.75	.25	11.25	1/2-13
284TS	7.00	5.50	9.50	.53	1.625	3.25	1-1/2	3.00	9.000	10.500	4.75	.25	11.25	1/2-13
286TS	7.00	5.50	11.00	.53	1.625	3.25	1-1/2	3.00	9.000	10.500	4.75	.25	11.25	1/2-13
324U	8.00	6.25	10.50	.66	1.875	5.62	2	5.38	11.000	12.500	5.25	.25	14.00	5/8-11
326U	8.00	6.25	12.00	.66	1.875	5.62	2	5.38	11.000	12.500	5.25	.25	14.00	5/8-11
324T	8.00	6.25	10.50	.66	2.125	5.25	2	5.00	11.000	12.500	5.25	.25	14.00	5/8-11
326T	8.00	6.25	12.00	.66	2.125	5.25	2	5.00	11.000	12.500	5.25	.25	14.00	5/8-11
324TS	8.00	6.25	10.50	.66	1.875	3.75	2	3.50	11.000	12.500	5.25	.25	14.00	5/8-11
326TS	8.00	6.25	12.00	.66	1.875	3.75	2	3.50	11.000	12.500	5.25	.25	14.00	5/8-11
364U	9.00	7.00	11.25	.66	2.125	6.38	2-1/2	6.12	11.000	12.500	5.88	.25	14.00	5/8-11
365U	9.00	7.00	12.25	.66	2.125	6.38	2-1/2	6.12	11.000	12.500	5.88	.25	14.00	5/8-11
364T	9.00	7.00	11.25	.66	2.375	5.88	2-1/2	5.62	11.000	12.500	5.88	.25	14.00	5/8-11
365T	9.00	7.00	12.25	.66	2.375	5.88	2-1/2	5.62	11.000	12.500	5.88	.25	14.00	5/8-11
364TS	9.00	7.00	11.25	.66	1.875	3.75	2-1/2	3.50	11.000	12.500	5.88	.25	14.00	5/8-11
365TS	9.00	7.00	12.25	.66	1.875	3.75	2-1/2	3.50	11.000	12.500	5.88	.25	14.00	5/8-11
404U	10.00	8.00	12.25	.81	2.375	7.12	3	6.88	11.000	12.500	6.62	.25	15.50	5/8-11
405U	10.00	8.00	13.75	.81	2.375	7.12	3	6.88	11.000	12.500	6.62	.25	15.50	5/8-11
404T	10.00	8.00	12.25	.81	2.875	7.25	3	7.00	11.000	12.500	6.62	.25	15.50	5/8-11
405T	10.00	8.00	13.75	.81	2.875	7.25	3	7.00	11.000	12.500	6.62	.25	15.50	5/8-11
404TS	10.00	8.00	12.25	.81	2.125	4.25	3	4.00	11.000	12.500	6.62	.25	15.50	5/8-11
405TS	10.00	8.00	13.75	.81	2.125	4.25	3	4.00	11.000	12.500	6.62	.25	15.50	5/8-11
444U	11.00	9.00	14.50	.81	2.875	8.62	3	8.38	14.000	16.000	7.50	.25	18.00	5/8-11
445U	11.00	9.00	16.50	.81	2.875	8.62	3	8.38	14.000	16.000	7.50	.25	18.00	5/8-11
444T	11.00	9.00	14.50	.81	3.375	8.50	3	8.25	14.000	16.000	7.50	.25	18.00	5/8-11
445T	11.00	9.00	16.50	.81	3.375	8.50	3	8.25	14.000	16.000	7.50	.25	18.00	5/8-11
444TS	11.00	9.00	14.50	.81	2.375	4.75	3	4.50	14.000	16.000	7.50	.25	18.00	5/8-11
445TS	11.00	9.00	16.50	.81	2.375	4.75	3	4.50	14.000	16.000	7.50	.25	18.00	5/8-11
447T	11.00	9.00	20.00	.81	3.375	8.50	3	8.25	14.000	16.000	7.50	.25	18.00	5/8-11
449T	11.00	9.00	25.00	.81	3.375	8.50	3	8.25	14.000	16.000	7.50	.25	18.00	5/8-11
447TS	11.00	9.00	20.00	.81	2.375	4.75	4 NPT	4.50	14.000	16.000	7.50	.25	18.00	5/8-11
449TS	11.00	9.00	25.00	.81	2.375	4.75	4 NPT	4.50	14.000	16.000	7.50	.25	18.00	5/8-11

Footnotes

S	Steel frame	26	Shaft is 1/2" Dia. X 1 1/2" long with flat
A	Aluminum frame	27	Shaft is 5/8" Dia. X 1.97" long with 3/16" keyway
C	Cast Iron frame	28	1/4" long extended through-bolts
US	Made in the USA	29	IEC Frame - See IEC dimension chart in back of catalog for dimension information
MX	Made in Mexico	30	CW rotation only, from lead end of motor
CA	Made in Canada	31	For motors having a "P" suffix letter in the date code
CN	Made in China	32	Motor has terminal board connection
2	These combination 56H base motors have mounting holes for 56 and 143-5T, and 1/2 diameter shaft with flat 1.5" long	33	Automatic overload - cannot use with VFD
3	Combination 56 H base has mounting holes for NEMA 56 and 143-5T and a standard NEMA 145T frame shaft of 7/8" Dia.	34	1" long extended through-bolts
4	These motors have a NEMA 215T base mounting pattern and shaft height of 5.25", with usable length of 3 3/8 and diameter of 1 1/8 with standard key	35	Terminal studs at 12:00
5	Combination 56 H base has mounting holes for NEMA 56, and has a standard NEMA 145T frame shaft of 7/8" Dia.	36	Special BA dimension 2.31 for belt guard clearance
6	Combination 56H base has mounting holes for NEMA 56 and NEMA 143-5T and a standard NEMA 56 shaft of 5/8"	37	Uses drip cover kit 175305.00
7	48YZ motors have std. 48-frame base with 1/2" dia. X 1 7/8 long shaft ext. with flat. Also includes sleeve to convert shaft to 5/8" dia. With 3/16" square key"	38	Uses drip cover kit 175004.00
8	NEMA 145TC shaft, 7/8" X 2 1/4" and NEMA 56 removable base	39	Uses drip cover kit 175932.00
9	S56CZ motors have mounting bases with NEMA 56 mounting holes, NEMA 56/143-5T C-face and a NEMA 143-5T shaft extension (7/8" dia x 2 1/4" long)	40	Uses drip cover kit 175933.00
10	Motor has mounting base with 182T mounting holes, shaft height is 4.5". Shaft is std. NEMA 56-5/8" dia. X 1 7/8 long	41	Uses drip cover kit 175846.00
11	TEBC totally enclosed blower cooled	42	Uses drip cover kit 175849.00
12	TENV totally enclosed non-vented	43	Uses drip cover kit 175962.00
13	TEFC totally enclosed fan cooled	44	Uses drip cover kit 175963.00
14	F1 mounting only	45	Uses drip cover kit 175614.00
15	Built-in conduit box located at 12:00	46	50 Hz operation at rated HP
16	1/2" diameter shaft - 2 1/4" long	47	Rated at 50Hz at full rated HP
17	5/8" diameter shaft - 2 5/8" long	48	190/380V, 50Hz at next lowest HP @1.15 S.F.
18	Shaft extension has keyway and flat 180° apart for ease of mounting	49	Class F insulated
19	Shaft is 5/8" Dia.by 2.0" long	50	Suitable for single speed operation only
20	Shaft is 5/8" Dia.by 2 5/8" long	51	Mechanical centrifugal starting switch with overspeed protection, others have electronic start switch
21	Shaft is 3/4" Dia.by 3 1/2" long	52	Extra high starting torque
22	Standard 5/8" diameter shaft with keyway plus 3/4" deep hole drilled and tapped to 1/4-20 UNC in end of shaft to facilitate mounting of some fan blades	53	Capacitor start/capacitor run design for reduced amperage, others are capacitor start/induction run
23	Standard 7/8" diameter shaft with keyway plus 3/4" deep hole drilled and tapped to 1/4-20 UNC in end of shaft to facilitate mounting of some fan blades	54	Split phase start, capacitor run is suitable for belt drive within the airflow of the fan
24	Motor's shaft is 1 inch longer than standard	55	Split phase start, capacitor run
25	Shaft extension has keyway and flat 180° apart for ease of mounting. Useable shaft is 1 1/2" long by 1/2 Dia., 1/8" keyway	56	Designed for inverter duty operation
		57	Rated for farm duty service
		58	Provision for belly band mount, no base
		59	Resilient base with provision for belly band mount
		60	Rigid base
		61	Nema 145TC face mounting with removable NEMA 182T rigid base
		62	Provision for belly band and pedestal fan mounting, no rigid base
		63	Resilient base

District Sales Offices and Warehouses

LEESON District Sales Offices & Warehouses can provide complete information including price and availability on both standard stock and special motors.

United States

- ☐ **ARKANSAS, Little Rock**
District Mgr.,
Kevin Springstead
972/245-2017
Fax: 972/245-2328
- ☒ **CALIFORNIA, Los Angeles**
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Dave Richardson
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Fax: 925/371-5673
- ☒ **CALIFORNIA, San Francisco**
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Fax: 925/371-5673
- ☒ **COLORADO, Denver**
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Dave Manning
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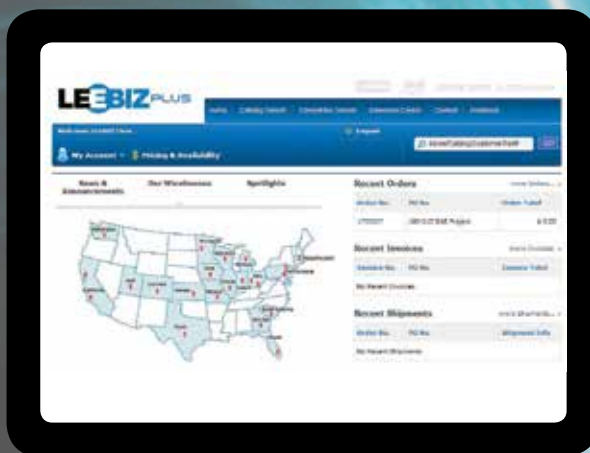
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