

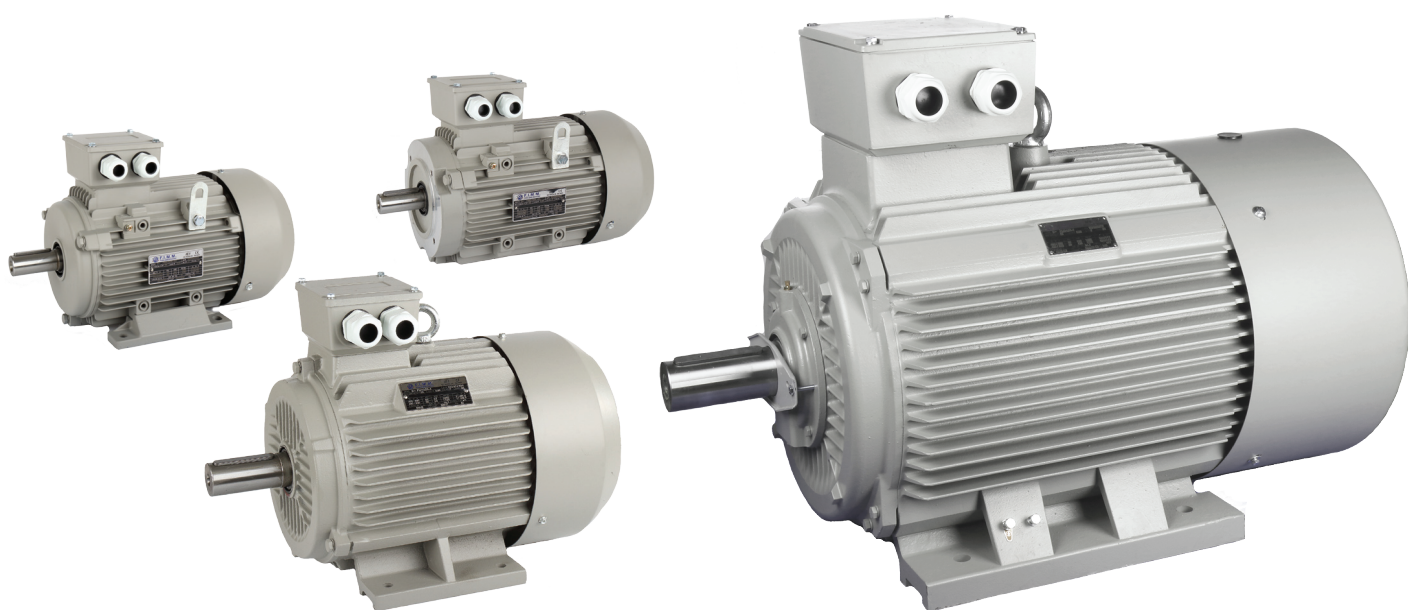
Motori Elettrici

***General Purpose
Induction Motors***

3-Phase Motors

1-Phase Motors

***Electromagnetic
Brake Motors***





CE

IEC



Production

F.I.M.M. Motor has an extremely broad knowledge of manufacturing and have all the modern technology required for the highest technical level and precision.

For the production we use excellent materials supplied by the outstanding producers.

For the last several years we have made continuous improvements from actions serving to detect defects to actions aimed at preventing defects.

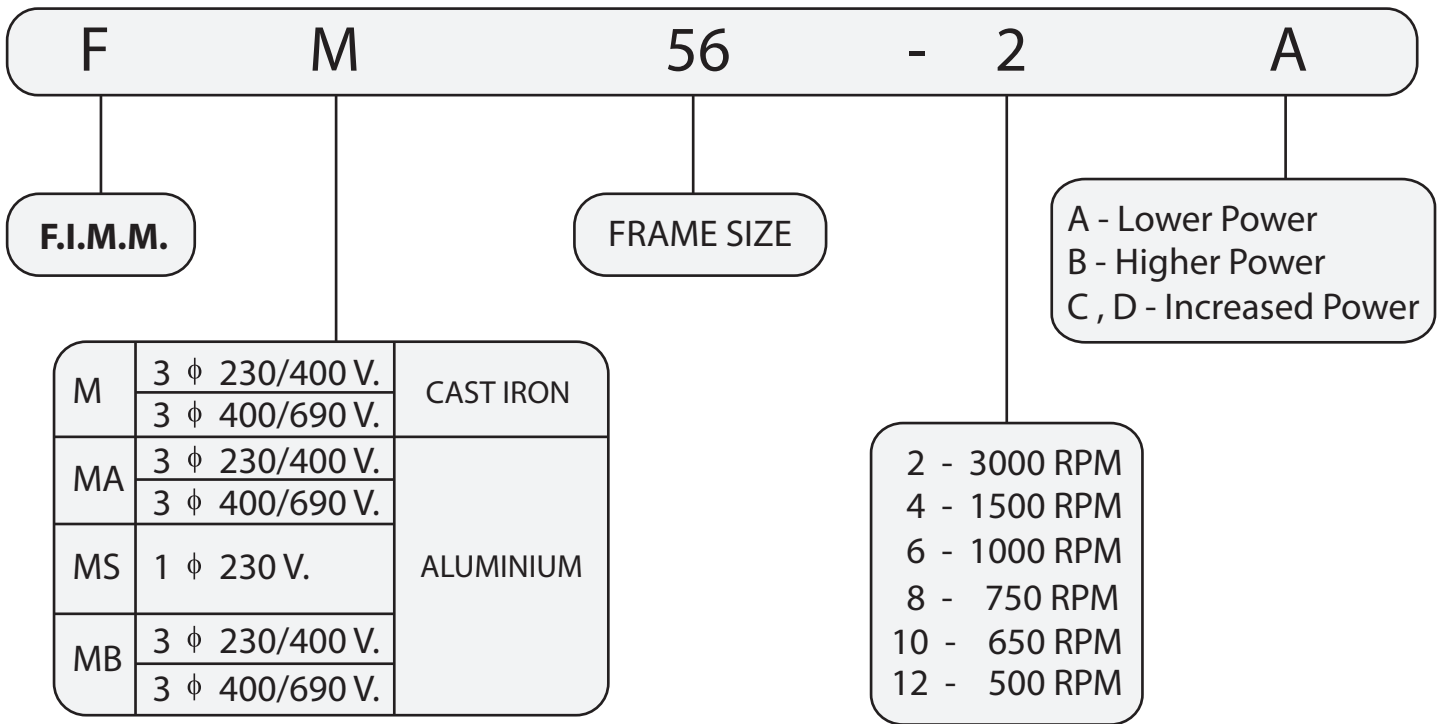
Since all technological processes are carried out in our manufacturing plants this means that we can ensure continuing high standards of quality for our products.

Our target is to excel in the quality of our motors.

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DESCRIPTION OF CODING AND RATING PLATE



		IE1	
MOT. 3 ~ FM80-2A		S/N	
IEC 60034-1	IP 55	cos φ 0.83	Is.Cl. F Duty S1
●		●	
Δ v λ	Hz	kW	RPM Δ A λ
230 / 400	50	0.75	2840 3.01 / 1.74
280 / 480	60	0.9	3408 3.01 / 1.74
T.Amb 40°C	Eff 50 Hz : 75.0 (100%)		IC 411
6204-2RZ		6204-2RZ	Kg 18.75

		IE1	
MOT. 3 ~ FMB80-2A		S/N	
IEC 60034-1	IP 55	cos φ 0.83	Is.Cl. F Duty S1
●	400 VAC/ 180 VDC	●	Brake 7.36 N.m.
Δ v λ	Hz	kW	RPM Δ A λ
230 / 400	50	0.75	2825 3.01 / 1.74
280 / 480	60	0.9	3390 3.01 / 1.74
T.Amb 40°C	Eff 50 Hz : 73.0 (100%)		IC 411
6204-2RZ		6204-2RZ	Kg 18.75

		IE1	
MOT. (1) ~ (2)		S/N (3)	
IEC 60034-1	IP (4)	cos φ (5)	Is.Cl. (6) Duty (7)
●	(8) VAC/ (8) VDC	●	Brake (9) N.m.
Δ v λ	Hz	kW	RPM Δ A λ
(10)	(11)	(12)	(13) (14)
T.Amb (15)	Eff 50 Hz : (16) (100%)		IC (17)
(18)		(19)	Kg (20)

Electric Motor Identification

1. Phase
2. Motor Type Code
3. Serial No.
4. Degree of Protection
5. Power Factor
6. Insulation Class
7. Duty
8. Brake Power Supply
9. Braking Torque (N.m.)
10. Motor Voltage (Depending on Connection)
11. Power Frequency (Hz.)
12. Output Power (kW)
13. Output Speed (RPM)
14. Rated Current (Depending on Connection)
15. Maximum Ambient Operating Temp. (°C)
16. Efficiency
17. Cooling System
18. Bearing No. (NDE)
19. Bearing No. (DE)
20. Weight (Kg)



TERMINAL BOX DATA

Frame Size	Degree of Protection	Position of Terminal Box	Number of Terminals	Number of Cable Outlets	Glands	Temperature Sensors in Winding	Bearing Lubrication System
F..56	IP 55	Top	6	2	M20 X 1.5	NO	NO
F..63	IP 55	Top	6	2	M20 X 1.5	NO	NO
F..71	IP 55	Top	6	2	M20 X 1.5	NO	NO
F..80	IP 55	Top	6	2	M20 X 1.5	NO	NO
F..90	IP 55	Top	6	2	M25 X 1.5	NO	NO
F..100	IP 55	Top	6	2	M25 X 1.5	NO	NO
F..112	IP 55	Top	6	2	M32 X 1.5	NO	NO
F..132	IP 55	Top	6	2	M32 X 1.5	NO	NO
F..160	IP 55	Top	6	2	M40 X 1.5	PTC	Yes
F..180	IP 55	Top	6	2	M40 X 1.5	PTC	Yes
F..200	IP 55	Top	6	2	M50 X 1.5	PTC	Yes
F..225	IP 55	Top	6	2	M50 X 1.5	PTC	Yes
F..250	IP 55	Top	6	2	M63 X 1.5	PTC	Yes
F..280	IP 55	Top	6	2	M63 X 1.5	PTC	Yes
F..315	IP 55	Top	6	2	M63 X 1.5	PTC	Yes
F..355	IP 55	Top	6	2	M63 X 1.5	PTC	Yes

STANDARDS AND EQUIVALENTS

The electric motors are manufactured according to international standards:

	Country	Standard
Rating and performance Methods for determining losses and efficiency Classification of degrees of protection Methods of cooling Symbols of construction and mounting arrangements Terminal markings and direction of rotation Noise limits Dimensions and output for electric machines Vibration limits		IEC 60034-1
		IEC 60034-2
		IEC 60034-5
		IEC 60034-6
		IEC 60034-7
	Germany	DIN VDE 0530; DIN EN 60034/VDE; DIN IEC 34; DIN 42673; DIN 42677
	Great Britain	BS 5000; BS 4999
	France	NFC 51 111; 51 120; NFC 51 200; NFC 51 115 NFC 51 117; NFC 51 119
	Italy	CEI 2-3 1988; CEI 2-6; CEI 2-7 CEI 2-8; CEI 2-15 CEI/UNEL 13113-71; CEI/UNEL 13117-71; CEI/UNEL 13118-71;
The products comply with the specifications regarding the electromagnetic compatibility specified in: EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4.		

All the motors are manufactured in Quality Assurance System consistent with ISO 9001.

ISO9001

The motors covered by the present catalogue comply with the regulations and standards effective in other countries, consistent with IEC standards.

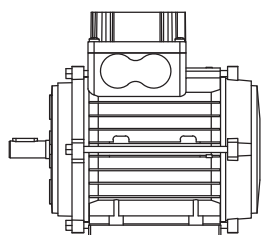
IEC

All the motors described in the present catalogue are provided with CE mark. It means that our products are consistent with the European Union directives regarding the safety measures.

CE

Frame Size	Poles	DE (Drive End)	NDE (Non-Drive End)
F..56	For All	6201 2Z	6201 2Z
F..63	For All	6201 2Z	6201 2Z
F..71	For All	6202 2Z	6202 2Z
F..80	For All	6204 2Z	6204 2Z
F..90	For All	6205 2Z	6205 2Z
F..100	For All	6206 2Z	6206 2Z
F..112	For All	6306 2Z	6306 2Z
F..132	For All	6308 2Z	6308 2Z
F..160	For All	6309C3	6309C3
F..180	For All	6311C3	6311C3
F..200	For All	6312C3	6312C3
F..225	For All	6313C3	6313C3
F..250	For All	6314C3	6314C3
F..280	2	6314C3	6314C3
	4-8	6317C3	6317C3
F..315	2	6317C3	6317C3
	4-10	NU319C3	6319C3
F..355	2	6319C3	6319C3
	4-10	NU322C3	6322C3

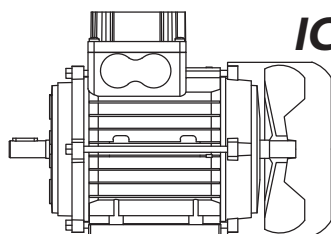
COOLING SYSTEMS



IC410

Standard construction electric motors are closed and self-ventilated with a fan mounted to the motor shaft which operates in both direction of rotation.

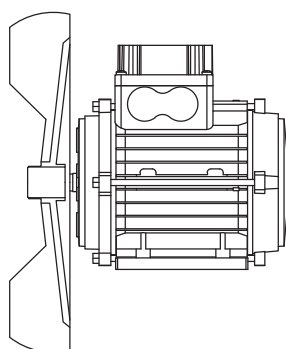
This cooling system, per IEC 60034-6, is designated IC411. Standard construction electric motors are constructed so that with IC411 cooling, duty is S1, this duty is guaranteed if the fan cover intake grille is not blocked by dirt deposited during operation or due to the installation itself (for example, inside the frame of a machine) such situations of poor ventilation must be carefully analysed to avoid compromising the motor's performance.



IC411

If the cooling system is IC418 (e.g. motor driving a fan and cooled by the resulting current of air), standard motors can be used in non-ventilated construction and S1 duty; naturally the speed and flow of air must be at least equivalent to that of the IC411 system.

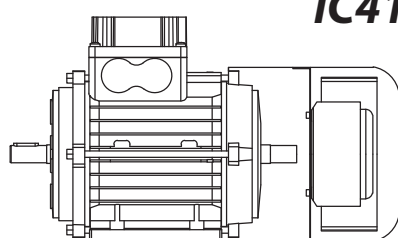
In case of total lack of external surface ventilation (IC410) standard motors may be used only for limited duration or very periodic duty. In such conditions the standard duty is S2 10 min or S3 10%.



IC418

On request, motors can be provided without ventilation for S1 duty; the power, for a given motor size, is reduced to around 1/3 of the power available in S1 duty for IC411 motors. Contact our technical service for further information.

Forced ventilation



IC416


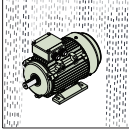
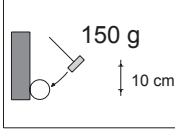

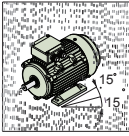
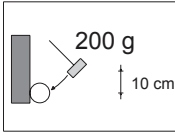

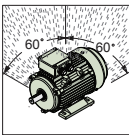
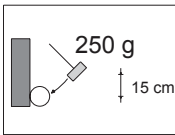
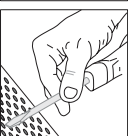
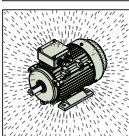
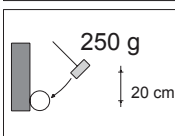
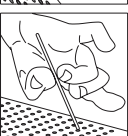
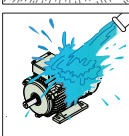
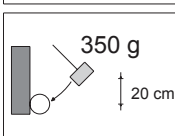
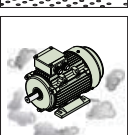

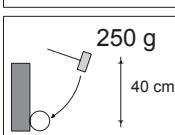
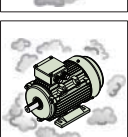
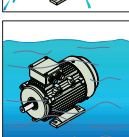
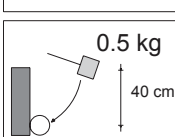
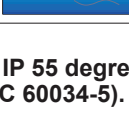
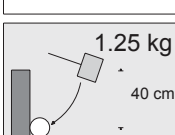
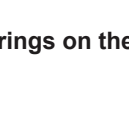
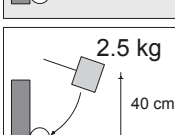
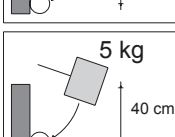
In the case of applications of the variable speed motor, it may be necessary to resort to forced ventilation (cooling method IC416), obtained by means of an axial flow servo-fan whose air flow rate is independent of the speed of rotation of the drive shaft.

The supply, independent from the electric motor, is given by means of a connector applied directly on fan cover (single-phase 230V 50-60Hz and three-phase 400V 50-60Hz).

On request, we can analyse different solution, or for special power voltages.

According to the IEC 60034-5 standard the electric motors are provided with IP code which determines the degree of protection (ensured by the housing) against penetration of solid matter and fluids.

IP55

PROTECTION AGAINST PENETRATION OF SOLID MATTER		PROTECTION AGAINST PENETRATION OF FLUIDS		IK	MECHANICAL PROTECTION	
1st digit	DESCRIPTION	2nd digit	DESCRIPTION	3rd digit	DESCRIPTION	
				00	No protection	
0	 Not protected	0	 Not protected	01		Striking energy: 0.15 J
1	 Protected against solid bodies larger than 50 mm	1	 Protected against vertically falling drops of water	02		Striking energy: 0.20 J
2	 Protected against solid bodies larger than 12 mm	2	 Protected against vertically falling drops of water up to 15°	03		Striking energy: 0.37 J
3	 Protected against solid bodies larger than 2.5 mm	3	 Protected against rain up to 60°	04		Striking energy: 0.50 J
4	 Protected against solid bodies larger than 1 mm	4	 Protected against rain falling from any direction	05		Striking energy: 0.70 J
5	 Protected against deposition of dust	5	 Protected against sprayed water from any direction	06		Striking energy: 1 J
6	 Totally protected against deposition of dust	6	 Protected against temporary immersion	07		Striking energy: 2 J
		7	 Protected against immersion between 0.15 and 1 m	08		Striking energy: 5 J
		8	 Protected against immersion at preset pressure and time	09		Striking energy: 10 J
				10		Striking energy: 20 J

F.I.M.M. standard motors are manufactured with IP 55 degree of protection according to the standard in force (IEC 60034-5). The following table lists its characteristics.

Each size 56 to 355 motor is equipped with seal rings on the control side and on the opposite side.

The terminal board box is sealed with a gasket.

Motors with a higher degree of protection are available on request.

INSULATION CLASSIFICATION

The insulation system of an electric motor is determined by a given insulation class on the basis of its thermal resistance.

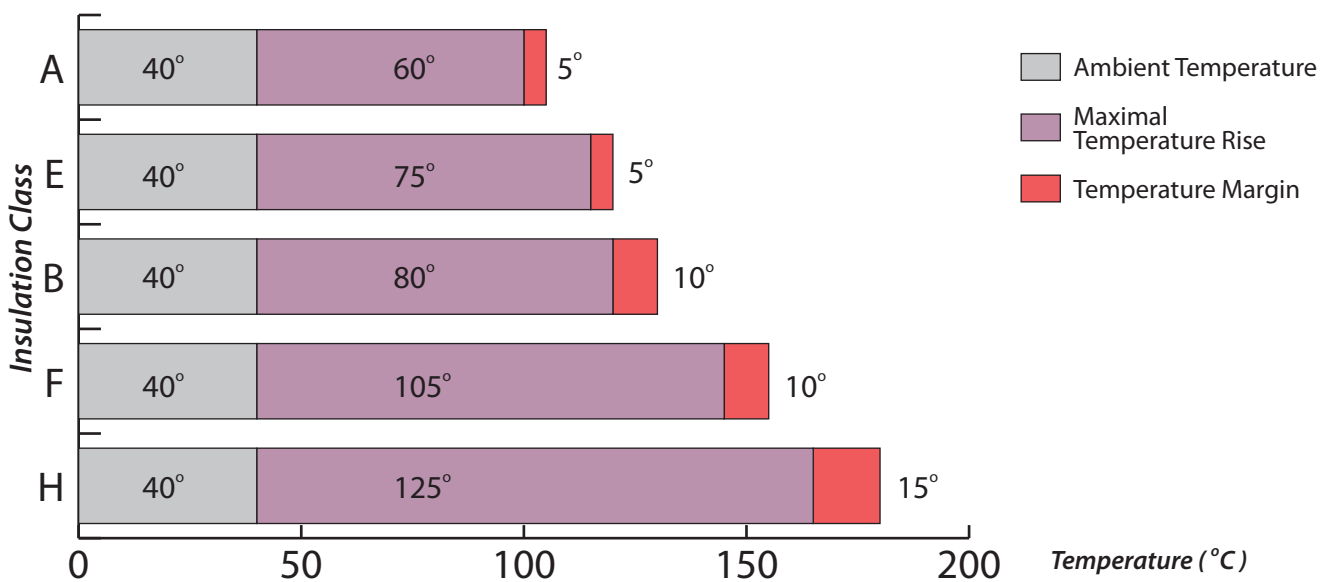
This thermal resistance should be guaranteed by the entire set of electric insulating materials used in the motor insulating system.

Thermal resistance classification is related to the temperature of the hotspot in the insulation occurring during rated operating conditions of the electric motor, allowing for the highest permissible rise in average temperature.

This rise should be selected so that at the highest permissible ambient temperature, the temperature of the hotspot in insulation will not exceed the value assigned to a given thermal resistance class.

Symbols of thermal resistance class (permissible insulation temperatures for ambient temperature of 40 °C)

Symbol	Temperature [°C]
A	105
E	120
B	130
F	155
H	180



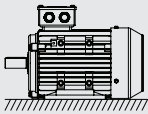
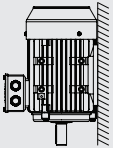
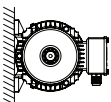
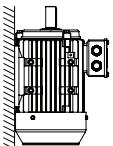
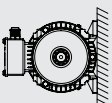
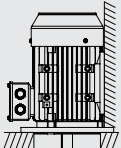
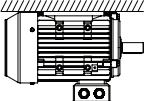
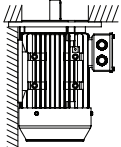
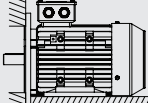
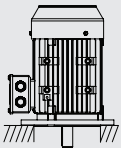
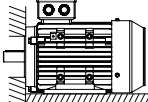
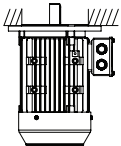
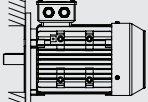
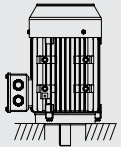
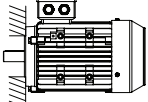
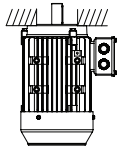
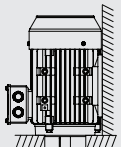
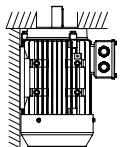
Insulation class F for an electric motor means that at ambient temperature of 40 °C the temperature rise of its windings may be max. 105 °C with the additional temperature margin of 10 °C (under specified measuring conditions in accordance with the IEC 60034-1 standard).

The motors made by F.I.M.M. Motor in their basic version have the insulation class F while the temperature rise is for class B. It means longer life of motors.

On customer's demand, we make motors with insulation class H.

Strengthened insulation system makes it possible to supply our motors from frequency inverters.

Class F

Horizontal Shaft				Vertical Shaft			
	Code I	Code II	Frame Size		Code I	Code II	Frame Size
	IM 1001	IM B3	56-400		IM 1011	IM V5	56-160
	IM 1051	IM B6	56-160		IM 1031	IM V6	56-160
	IM 1061	IM B7	56-160		IM 2011 or IM 2111	IM V15	56-160
	IM 1071	IM B8	56-160		IM 2031 or IM 2131	IM V36	56-160
	IM 2001	IM B35	56-400		IM 3011	IM V1	56-355
	IM 2101	IM B34	56-132		IM 3031	IM V3	56-160
	IM 3001	IM B5	56-280		IM 3611	IM V18	56-132
	IM 3601	IM B14	56-132		IM 3631	IM V19	56-132
					IM 3631	IM V69	56-132
					IM 3631	IM V58	56-132

MOTORS FOR 60 Hz OPERATION

F.I.M.M. Motor state that motors with wounded voltage 230/400 V. or 400/690 V. 50 Hz can be used with 380 V. 60 Hz, 400 V. 60Hz, 415 V. 60 Hz, 440 V. 60 Hz, 460 V. 60 Hz and 480 V. 60 Hz. as shown in the performance data below :

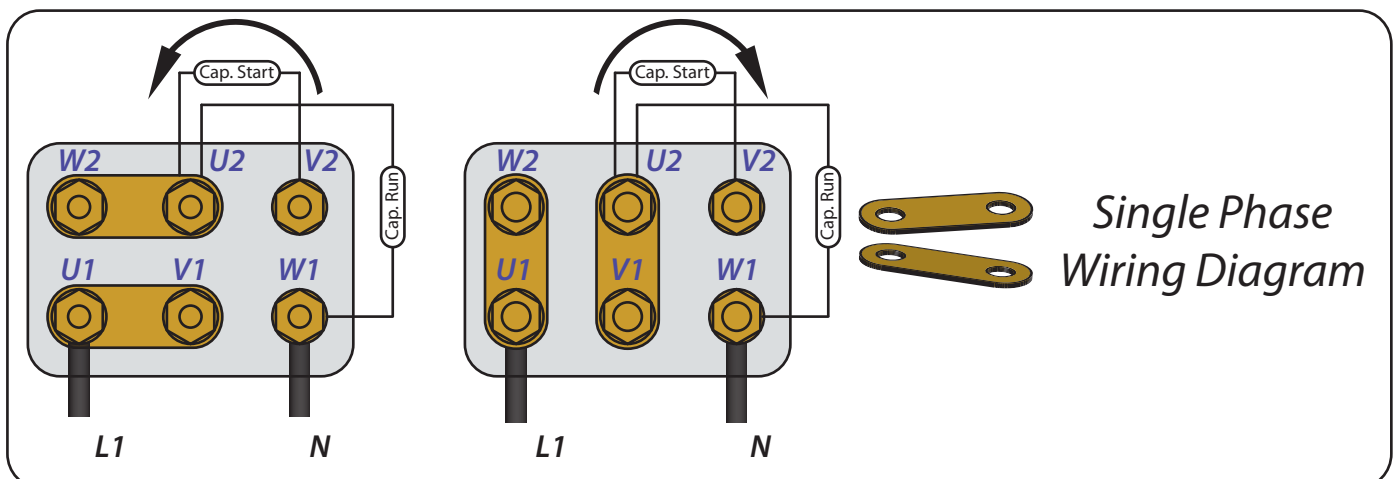
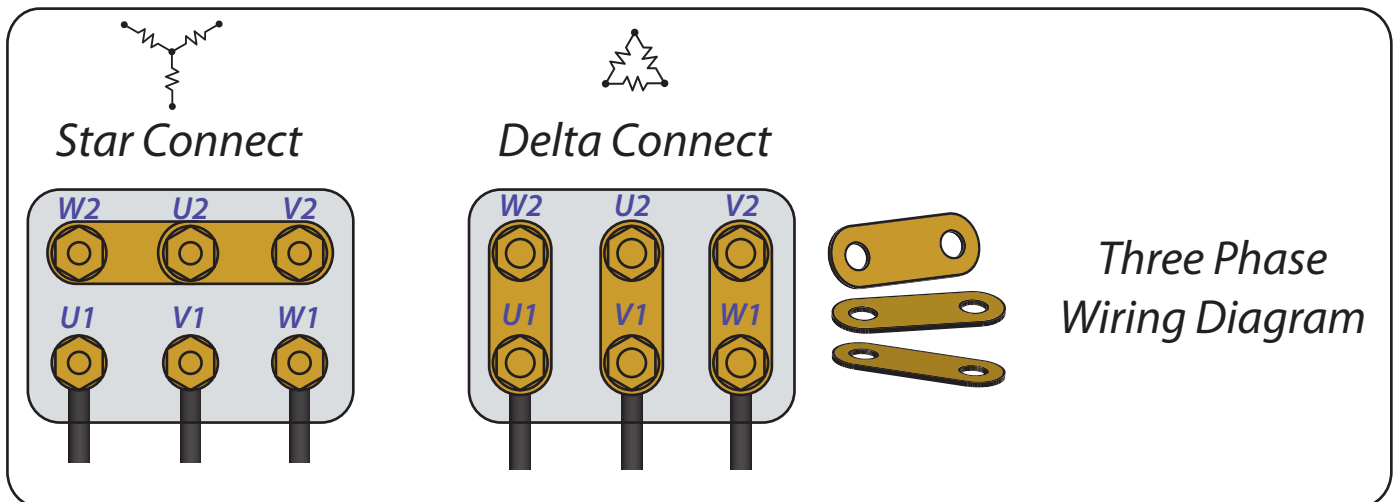
Voltage	Frequency	Data at 60 Hz in percentage of values at 50 Hz						
		P_N	n_N	I_N	I_L / I_N	T_N	T_L / T_N	T_B / T_N
380 V	60 Hz.	100	120	100	80	83	66	80
400 V	60 Hz.	100	120	98	83	83	70	85
415 V	60 Hz.	105	120	100	88	86	78	88
440 V	60 Hz.	110	120	100	95	91	85	93
460 V	60 Hz.	115	120	100	100	96	95	98
480 V	60 Hz.	120	120	100	105	100	100	100

- Temperature rise approximately the same as at rated supply conditions.
- The percentages show general rule and in the certain case can be a bit different.

P_N = Rated Output
 n_N = Rated Speed
 I_N = Rated Current
 I_L / I_N = Locked Rotor Current

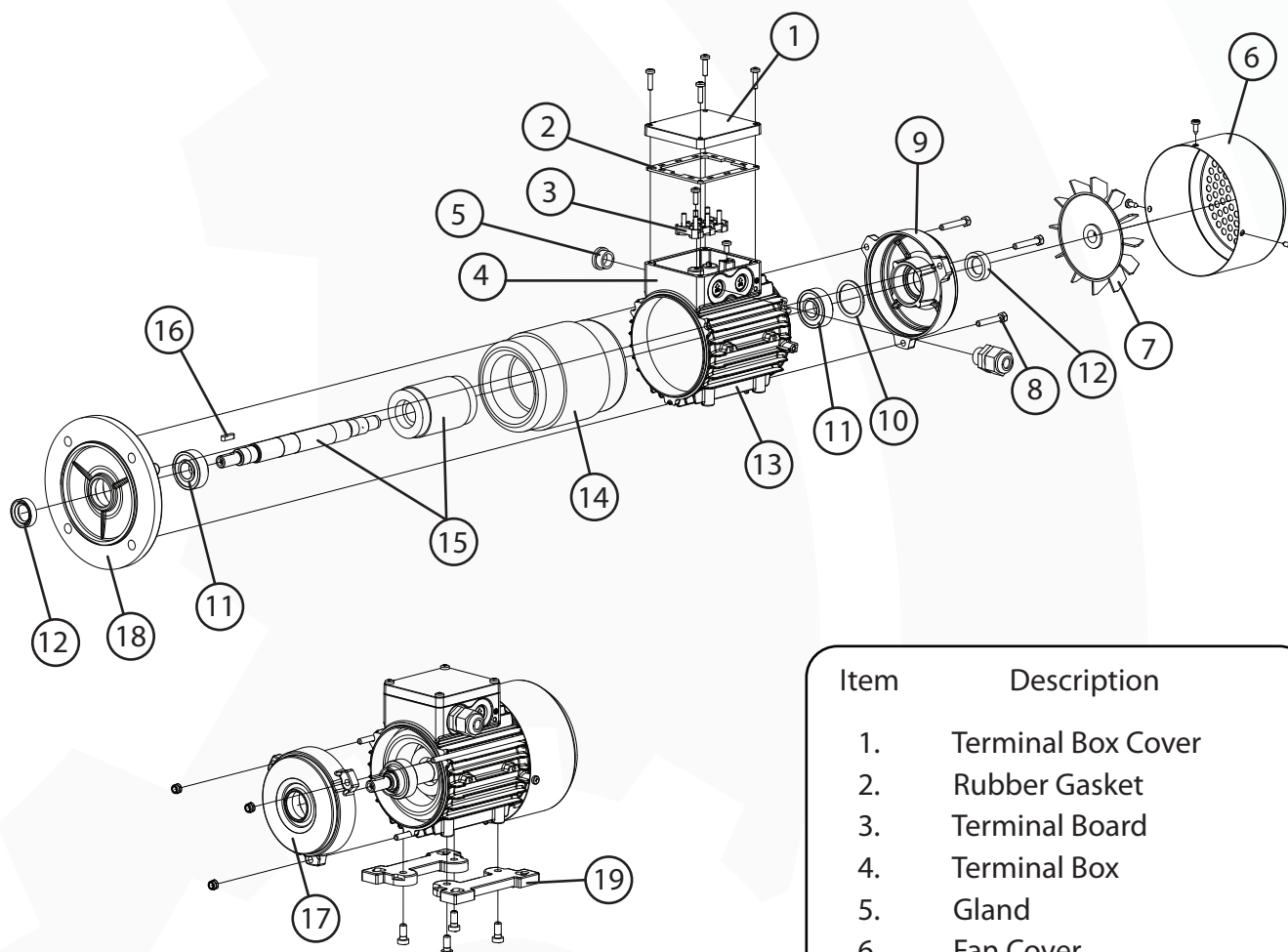
T_N = Rated Torque
 T_L / T_N = Locked Rotor Torque
 T_B / T_N = Breakdown Torque

WIRING DIAGRAM



FMA Series - Aluminium Housing

- Duty: S1
- Rated voltage: 230V, 380V, 400V, 690V (Δ / Y)
- Frequency: 50/60 Hz
- Ambient temperature: from -15°C to + 40°C
- Mounting height: up to 1000 m above sea level
- Insulation class: F

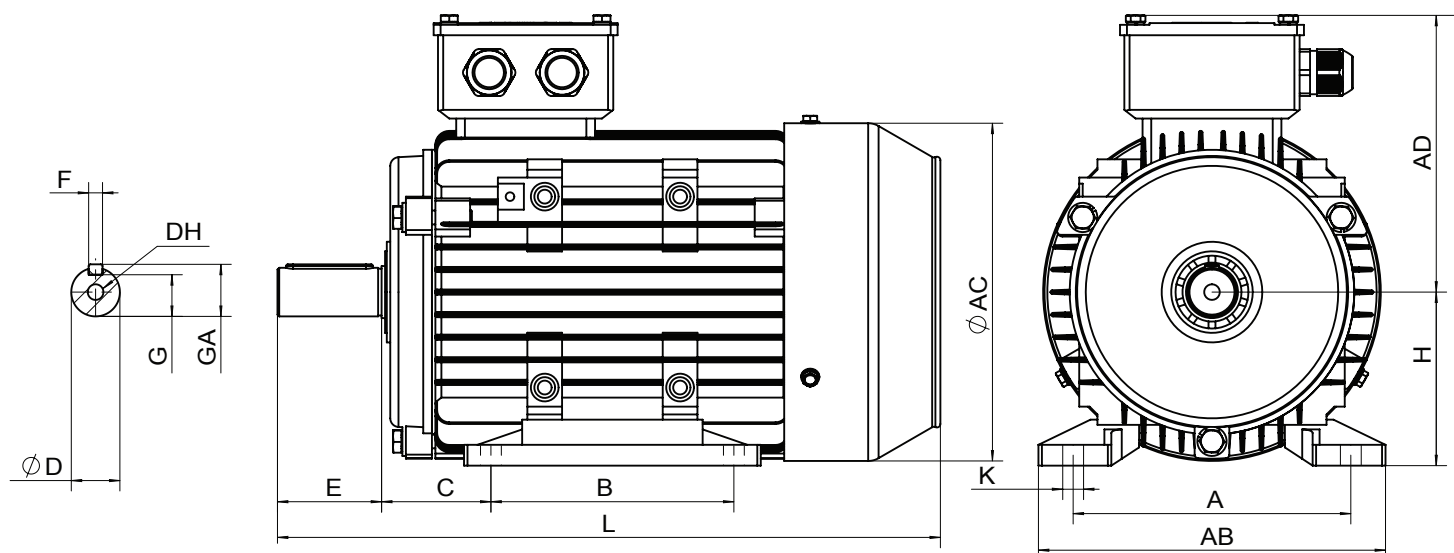


Item	Description
1.	Terminal Box Cover
2.	Rubber Gasket
3.	Terminal Board
4.	Terminal Box
5.	Gland
6.	Fan Cover
7.	Fan
8.	Tie Rod
9.	NDE Shield
10.	Spring Washer
11.	Bearing
12.	Shaft Seal
13.	Housing
14.	Stator
15.	Rotor
16.	Key
17.	DE Shield
18.	Flange End Shield
19.	Feet

FMA Series - Aluminium Housing

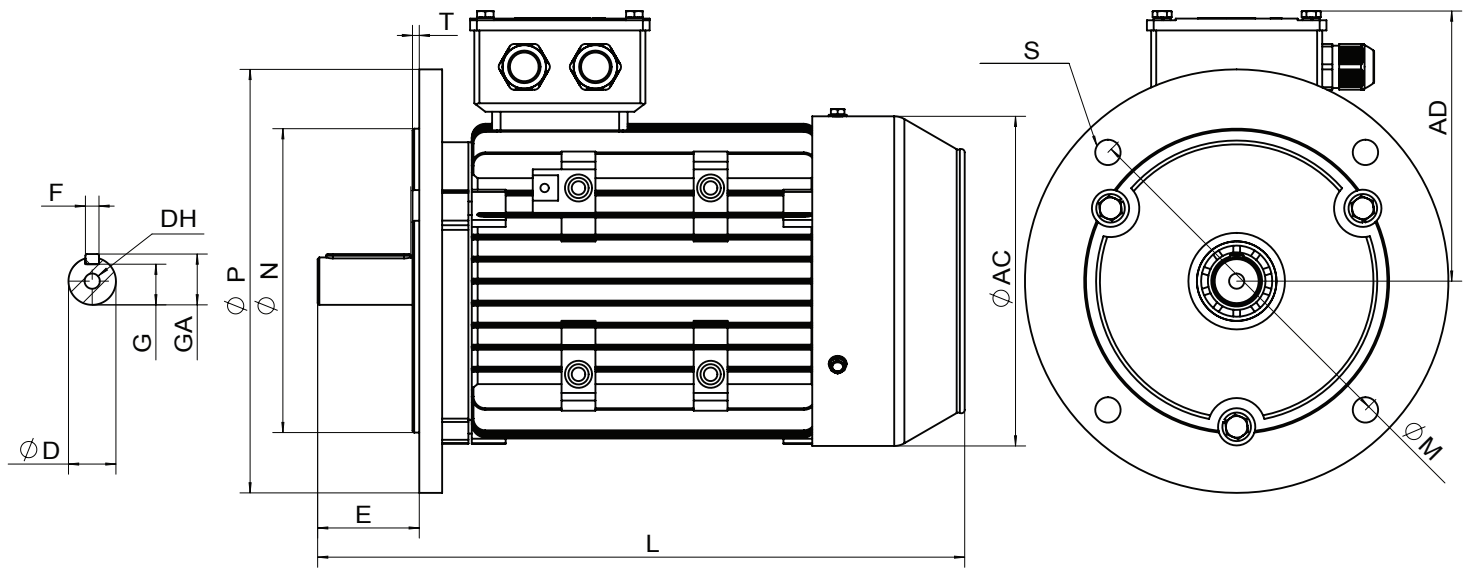
Item	Type	Rated Output		Rated Speed	Rated Torque	Efficiency	Power factor	Full Load Current			Locked Rotor Torque	Breakdown Torque	Locked Rotor Current	Moment of inertia	Sound Pressure Level	Weight
		P_N		n_N	T_N	η_N [%] at % of full load	$\cos \varphi_N$	I_N at rated voltage			T_L/T_N	T_B/T_N	I_L/I_N	J	L_{pA}	m
		[kW]	[HP]	[min ⁻¹]	[Nm]			[A]230 V	[A]380 V	[A]400 V	[-]	[-]	[-]			
<i>2p=2 n_s=3000 rpm</i>																
1	FMA56-2A	0.09	0.12	2700	0.32	62.0	0.77	0.47	0.29	0.27	2.2	2.1	5.2	0.18	57	3.8
2	FMA56-2B	0.12	0.16	2700	0.42	64.0	0.78	0.61	0.37	0.35	2.2	2.1	5.2	0.23	57	4
3	FMA63-2A	0.18	0.25	2720	0.63	65.0	0.80	0.87	0.53	0.50	2.3	2.3	5.5	0.31	61	4.5
4	FMA63-2B	0.25	0.33	2720	0.88	68.0	0.81	1.13	0.69	0.65	2.3	2.3	5.5	0.6	61	4.7
5	FMA71-2A	0.37	0.5	2755	1.28	69.0	0.81	1.66	1.01	0.96	2.2	2.3	6.1	0.75	64	6
6	FMA71-2B	0.55	0.75	2790	1.88	74.0	0.82	2.25	1.38	1.30	2.3	2.3	6.1	0.9	64	6.3
7	FMA80-2A	0.75	1	2845	2.52	75.0	0.83	2.89	1.77	1.67	2.3	2.2	6.1	1.2	67	10
8	FMA80-2B	1.1	1.5	2835	3.71	76.2	0.84	4.05	2.61	2.34	2.3	2.2	6.9	1.4	67	11
9	FMA90S-2	1.5	2	2850	5.03	78.5	0.84	5.70	3.46	3.29	2.3	2.2	7.0	2.9	72	13
10	FMA90L-2	2.2	3	2855	7.36	81.0	0.85	7.97	4.85	4.60	2.3	2.2	7.0	5.5	72	14
11	FMA100L-2	3	4	2860	10.02	82.6	0.87	10.43	6.34	6.02	2.3	2.2	7.5	10.9	76	24
12	FMA112M-2	4	5.5	2880	13.26	84.2	0.88	-	8.20	7.80	2.3	2.2	7.5	12.6	77	28
13	FMA132S-2A	5.5	7.5	2900	18.11	85.7	0.88	-	11.10	10.50	2.3	2.2	7.5	37.7	80	40
14	FMA132S-2B	7.5	10	2900	24.70	87.0	0.88	-	14.90	14.15	2.3	2.2	7.5	49.9	80	43
15	FMA160M-2A	11	15	2930	35.85	88.0	0.89	-	21.30	20.20	2.3	2.2	7.5	55	86	83
16	FMA160M-2B	15	20	2930	48.89	89.0	0.89	-	28.80	27.40	2.3	2.2	7.5	75	86	90
17	FMA160L-2	18.5	25	2930	60.30	90.0	0.90	-	34.70	32.97	2.3	2.2	7.5	124	86	104
<i>2p=4 n_s=1500 rpm</i>																
18	FMA56-4A	0.06	0.08	1300	0.44	56.0	0.70	0.38	0.23	0.22	2.1	2.0	4.0	0.3	48	3.8
19	FMA56-4B	0.09	0.12	1300	0.66	58.0	0.72	0.54	0.33	0.31	2.1	2.0	4.0	0.4	48	4
20	FMA63-4A	0.12	0.16	1310	0.87	57.0	0.72	0.73	0.44	0.42	2.2	2.1	4.4	0.5	52	4.5
21	FMA63-4B	0.18	0.25	1310	1.31	60.0	0.73	1.02	0.62	0.59	2.2	2.1	4.4	0.6	52	4.7
22	FMA71-4A	0.25	0.33	1340	1.78	65.0	0.74	1.30	0.79	0.75	2.2	2.1	5.2	0.8	55	6
23	FMA71-4B	0.37	0.5	1340	2.64	67.0	0.75	1.91	1.12	1.10	2.2	2.1	5.2	1.3	55	6.3
24	FMA80-4A	0.55	0.75	1390	3.78	71.0	0.75	2.49	1.52	1.44	2.3	2.4	5.2	1.8	58	10
25	FMA80-4B	0.75	1	1390	5.15	73.0	0.76	3.20	1.95	1.85	2.3	2.3	6.0	2.1	58	11
26	FMA90S-4	1.1	1.5	1390	7.56	76.2	0.77	4.68	2.85	2.70	2.3	2.3	6.0	2.3	61	12
27	FMA90L-4	1.5	2	1400	10.23	78.5	0.78	6.11	3.72	3.53	2.3	2.3	6.0	2.7	61	14
28	FMA100L-4A	2.2	3	1420	14.80	81.0	0.81	8.37	5.09	4.83	2.3	2.3	7.0	5.4	64	23
29	FMA100L-4B	3	4	1420	20.18	82.6	0.82	11.08	6.78	6.40	2.3	2.3	7.0	6.7	64	25
30	FMA112M-4	4	5.5	1435	26.62	84.2	0.82	-	8.80	8.36	2.3	2.3	7.0	9.5	65	29
31	FMA132S-4	5.5	7.5	1440	36.48	85.7	0.83	-	11.70	11.12	2.3	2.3	7.0	21.4	71	43
32	FMA132M-4	7.5	10	1450	49.40	87.0	0.84	-	15.60	14.80	2.3	2.3	7.0	29.6	71	55
33	FMA160M-4	11	15	1460	71.95	88.0	0.85	-	22.30	21.20	2.3	2.3	7.0	74.7	75	86
34	FMA160L-4	15	20	1460	98.12	89.0	0.85	-	30.10	28.60	2.3	2.3	7.0	91.8	75	100
<i>2p=6 n_s=1000 rpm</i>																
35	FMA71-6A	0.18	0.25	870	1.98	56.0	0.66	1.21	0.74	0.70	2.0	1.9	4.0	1.1	52	6
36	FMA71-6B	0.25	0.33	870	2.74	59.0	0.68	1.56	0.95	0.90	2.0	1.9	4.0	1.4	52	6.3
37	FMA80-6A	0.37	0.5	880	4.02	62.0	0.70	2.03	1.23	1.17	2.0	1.9	4.7	1.6	54	10
38	FMA80-6B	0.55	0.75	880	5.97	65.0	0.72	2.77	1.70	1.60	2.1	1.9	4.7	1.9	54	11
39	FMA90S-6	0.75	1	905	7.91	69.0	0.72	3.78	2.29	2.18	2.1	2.0	5.3	2.9	57	13
40	FMA90L-6	1.1	1.5	905	11.61	72.0	0.73	5.23	3.18	3.02	2.1	2.0	5.5	3.5	57	14
41	FMA100L-6	1.5	2	920	15.57	76.0	0.76	6.58	4.00	3.80	2.1	2.0	5.5	6.9	61	23
42	FMA112M-6	2.2	3	935	22.47	79.0	0.76	9.21	5.60	5.32	2.1	2.0	6.5	14	65	28
43	FMA132S-6	3	4	960	29.84	81.0	0.76	12.18	7.40	7.03	2.1	2.1	6.5	28.6	69	38
44	FMA132M-6A	4	5.5	960	39.79	82.0	0.76	-	9.50	9.03	2.1	2.1	6.5	35.7	69	50
45	FMA132M-6B	5.5	7.5	960	54.71	84.0	0.77	-	12.60	11.97	2.1	2.1	6.5	44.9	69	57
46	FMA160M-6	7.5	10	970	73.84	86.0	0.78	-	16.90	16.10	2.1	2.0	6.5	81	73	82
47	FMA160L-6	11	15	970	108.30	87.5	0.79	-	24.20	22.99	2.1	2.0	6.5	11.6	73	93
<i>2p=8 n_s=750 rpm</i>																
48	FMA80-8A	0.18	0.25	645	2.67	51.0	0.61	1.37	0.83	0.79	1.9	1.8	3.3	2.5	52	10
49	FMA80-8B	0.25	0.33	645	3.70	54.0	0.61	1.82	1.10	1.05	1.9	1.8	3.3	3	52	11
50	FMA90S-8	0.37	0.5	675	5.23	62.0	0.61	2.42	1.49	1.40	1.9	1.8	4.0	5.1	56	13
51	FMA90L-8	0.55	0.75	680	7.72	63.0	0.61	3.57	2.17	2.06	2.0	1.8	4.0	6.5	56	15
52	FMA100L-8A	0.75	1	680	10.53	70.0	0.67	3.98	2.43	2.30	2.0	1.8	4.0	9.5	59	23
53	FMA100L-8B	1.1	1.5	680	15.45	72.0	0.69	5.54	3.36	3.20	2.0	1.8	5.0	11	59	25
54	FMA112M-8	1.5	2	690	20.76	74.0	0.70	-	4.40	4.22	2.0	1.8	5.0	24.5	61	28
55	FMA132S-8	2.2	3	710	29.59	79.0	0.71	-	6.00	5.70	2.0	1.8	6.0	31.4	64	40
56	FMA132M-8	3	4	710	40.35	80.0	0.73	-	7.80	7.40	2.0	1.8	6.0	39.5	64	45
57	FMA160M-8A	4	5.5	720	53.06	81.0	0.73	-	10.30	9.78	2.0	1.9	6.0	75.3	68	71
58	FMA160M-8B	5.5	7.5	720	72.95	83.0	0.74	-	13.60	12.90	2.0	2.0	6.5	93.1	68	82.5

FMA Series B3 dimension



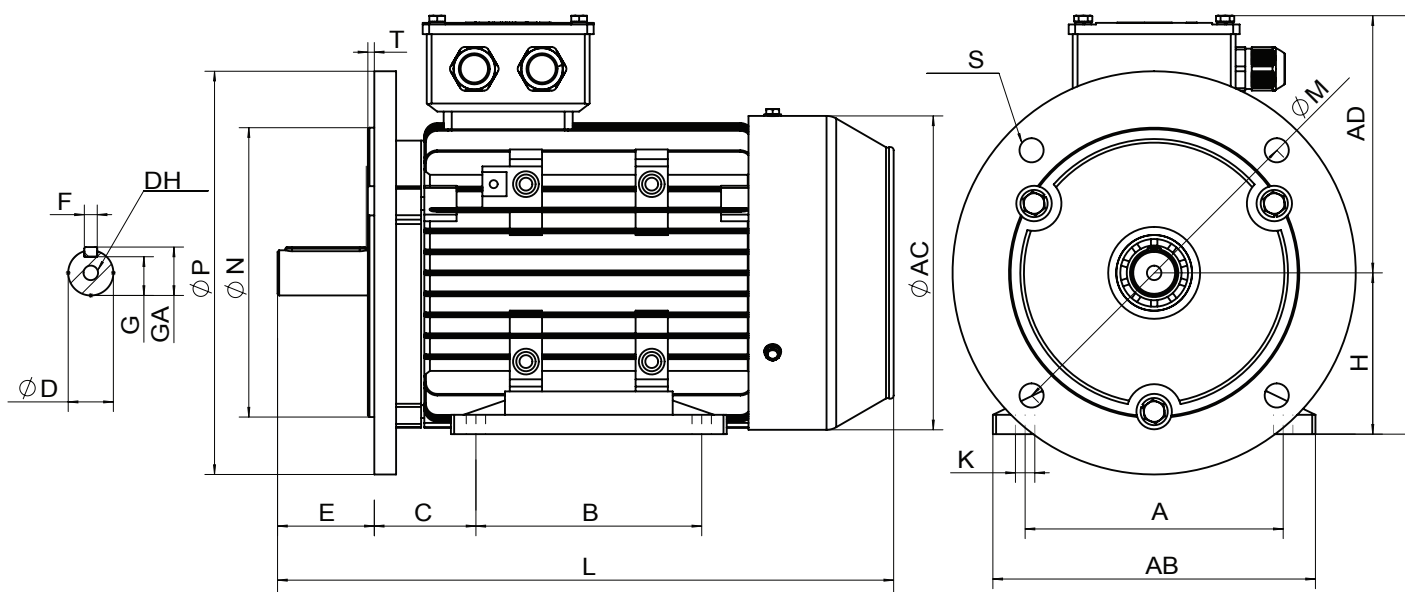
Frame size	A	B	C	D	E	F	G	GA	H	K	AB	AC	AD	L	DH
FMA 56-..	90	71	36	9	20	3	7.2	10.2	56	5.8	115	110	100	199	M4X12
FMA 63-..	100	80	40	11	23	4	8.5	12.5	63	7	137	123	111	221	M4X12
FMA 71-..	112	90	45	14	30	5	11	16	71	7	133	137	127	247	M5X12
FMA 80-..	125	100	50	19	40	6	15.5	21.5	80	10	157	155	136	297	M6X16
FMA 90S-..	140	100	56	24	50	8	20	28	90	10	175	175	144	315	M8X19
FMA 90L-..	140	125	56	24	50	8	20	28	90	10	175	175	144	340	M8X19
FMA 100L-..	160	140	63	28	60	8	24	32	100	12	200	196	160	385	M10X22
FMA 112M-..	190	140	70	28	60	8	24	32	112	12	226	220	183	400	M10X22
FMA 132S-..	216	140	89	38	80	10	33	43	132	12	260	259	198	483	M12X28
FMA 132M-..	216	178	89	38	80	10	33	43	132	12	260	259	198	510	M12X28
FMA 160M-..	254	210	108	42	110	12	37	45	160	15	314	315	255	615	M16X36
FMA 160L-..	254	254	108	42	110	12	37	45	160	15	314	315	255	670	M16X36
FMA 180M-..	279	241	121	48	110	14	42.5	51.5	180	15	335	355	270	700	M16X36
FMA 180L-..	279	279	121	48	110	14	42.5	51.5	180	15	335	355	270	740	M16X36

FMA Series B5 dimension



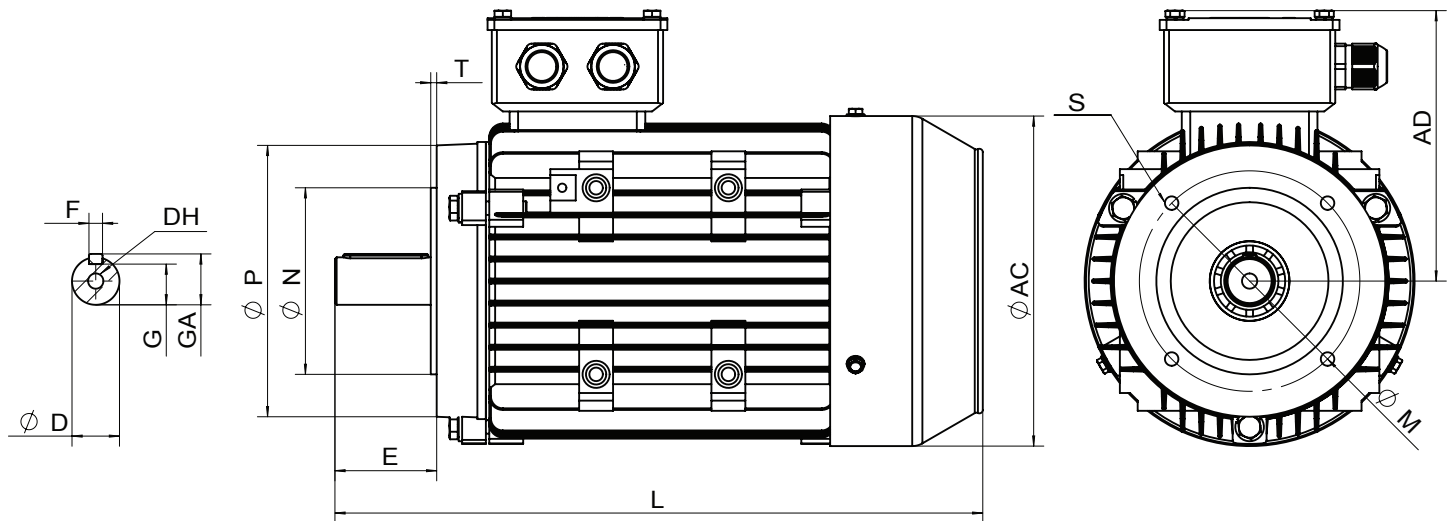
Frame size	D	E	F	G	GA	M	N	P	S	T	Flange Holes	AC	AD	L	DH
FMA 56-..	9	20	3	7.2	10.2	100	80	120	7	3	4	110	100	199	M4X12
FMA 63-..	11	23	4	8.5	12.5	115	95	140	10	3	4	123	111	221	M4X12
FMA 71-..	14	30	5	11	16	130	110	160	10	3.5	4	137	127	247	M5X12
FMA 80-..	19	40	6	15.5	21.5	165	130	200	12	3.5	4	155	136	297	M6X16
FMA 90S-..	24	50	8	20	28	165	130	200	12	3.5	4	175	144	315	M8X19
FMA 90L-..	24	50	8	20	28	165	130	200	12	3.5	4	175	144	340	M8X19
FMA 100L-..	28	60	8	24	32	215	180	250	15	4	4	196	160	385	M10X22
FMA 112M-..	28	60	8	24	32	215	180	250	15	4	4	220	183	400	M10X22
FMA 132S-..	38	80	10	33	43	265	230	300	15	4	4	259	198	483	M12X28
FMA 132M-..	38	80	10	33	43	265	230	300	15	4	4	259	198	510	M12X28
FMA 160M-..	42	110	12	37	45	300	250	350	19	5	4	315	255	615	M16X36
FMA 160L-..	42	110	12	37	45	300	250	350	19	5	4	315	255	670	M16X36
FMA 180M-..	48	110	14	42.5	51.5	300	250	350	19	5	4	355	270	700	M16X36
FMA 180L-..	48	110	14	42.5	51.5	300	250	350	19	5	4	355	270	740	M16X36

FMA Series B35 dimension



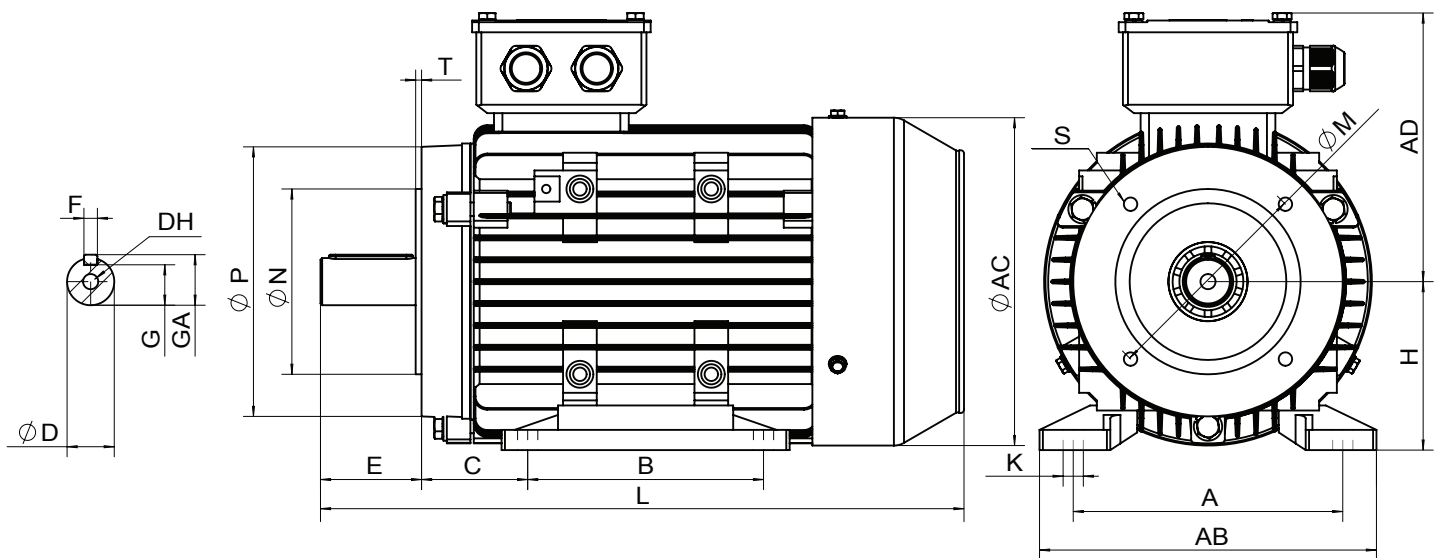
Frame size	A	B	C	D	E	F	G	GA	H	K	M	N	P	S	T	Flange Holes	AB	AC	AD	L	DH
FMA 56-..	90	71	36	9	20	3	7.2	10.2	56	5.8	100	80	120	7	3	4	115	110	100	199	M4X12
FMA 63-..	100	80	40	11	23	4	8.5	12.5	63	7	115	95	140	10	3	4	137	123	111	221	M4X12
FMA 71-..	112	90	45	14	30	5	11	16	71	7	130	110	160	10	3.5	4	133	137	127	247	M5X12
FMA 80-..	125	100	50	19	40	6	15.5	21.5	80	10	165	130	200	12	3.5	4	157	155	136	297	M6X16
FMA 90S-..	140	100	56	24	50	8	20	28	90	10	165	130	200	12	3.5	4	175	175	144	315	M8X19
FMA 90L-..	140	125	56	24	50	8	20	28	90	10	165	130	200	12	3.5	4	175	175	144	340	M8X19
FMA 100L-..	160	140	63	28	60	8	24	32	100	12	215	180	250	15	4	4	200	196	160	385	M10X22
FMA 112M-..	190	140	70	28	60	8	24	32	112	12	215	180	250	15	4	4	226	220	183	400	M10X22
FMA 132S-..	216	140	89	38	80	10	33	43	132	12	265	230	300	15	4	4	260	259	198	483	M12X28
FMA 132M-..	216	178	89	38	80	10	33	43	132	12	265	230	300	15	4	4	260	259	198	510	M12X28
FMA 160M-..	254	210	108	42	110	12	37	45	160	15	300	250	350	19	5	4	314	315	255	615	M16X36
FMA 160L-..	254	254	108	42	110	12	37	45	160	15	300	250	350	19	5	4	314	315	255	670	M16X36
FMA 180M-..	279	241	121	48	110	14	42.5	51.5	180	15	300	250	350	19	5	4	335	355	270	700	M16X36
FMA 180L-..	279	279	121	48	110	14	42.5	51.5	180	15	300	250	350	19	5	4	335	355	270	740	M16X36

FMA Series B14 dimension



Frame size	Flange	D	E	F	G	GA	M	N	P	S	T	Flange Holes	AC	AD	L	DH
FMA 56-..	B14/C1	9	20	3	7.2	10.2	85	70	105	M6	2.5	4	110	100	199	M4X12
FMA 56-..	B14/C2	9	20	3	7.2	10.2	65	50	80	M5	2.5	4	110	100	199	M4X12
FMA 63-..	B14/C1	11	23	4	8.5	12.5	100	80	120	M6	2.5	4	123	111	221	M4X12
FMA 63-..	B14/C2	11	23	4	8.5	12.5	75	60	90	M5	2.5	4	123	111	221	M4X12
FMA 71-..	B14/C1	14	30	5	11	16	115	95	140	M8	3	4	137	127	247	M5X12
FMA 71-..	B14/C2	14	30	5	11	16	85	70	105	M6	2.5	4	137	127	247	M5X12
FMA 80-..	B14/C1	19	40	6	15.5	21.5	130	110	160	M8	3.5	4	155	136	297	M6X16
FMA 80-..	B14/C2	19	40	6	15.5	21.5	100	80	120	M6	3	4	155	136	297	M6X16
FMA 90S-..	B14/C1	24	50	8	20	28	130	110	160	M8	3.5	4	175	144	315	M8X19
FMA 90S-..	B14/C2	24	50	8	20	28	115	95	140	M8	3	4	175	144	315	M8X19
FMA 90L-..	B14/C1	24	50	8	20	28	130	110	160	M8	3.5	4	175	144	340	M8X19
FMA 90L-..	B14/C2	24	50	8	20	28	115	95	140	M8	3	4	175	144	340	M8X19
FMA 100L-..	B14/C1	28	60	8	24	32	165	130	200	M10	3.5	4	196	160	385	M10X22
FMA 100L-..	B14/C2	28	60	8	24	32	130	110	160	M8	3.5	4	196	160	385	M10X22
FMA 112M-..	B14/C1	28	60	8	24	32	165	130	200	M10	3.5	4	220	183	400	M10X22
FMA 112M-..	B14/C2	28	60	8	24	32	130	110	160	M8	3.5	4	220	183	400	M10X22
FMA 132S-..	B14/C1	38	80	10	33	43	215	180	250	M12	4	4	259	198	483	M12X28
FMA 132S-..	B14/C2	38	80	10	33	43	165	130	200	M10	3.5	4	259	198	483	M12X28
FMA 132M-..	B14/C1	38	80	10	33	43	215	180	250	M12	4	4	259	198	510	M12X28
FMA 132M-..	B14/C2	38	80	10	33	43	165	130	200	M10	3.5	4	259	198	510	M12X28
FMA 160M-..	B14/C1	42	110	12	37	45	265	230	300	M16	5	4	315	255	615	M16X36
FMA 160M-..	B14/C2	42	110	12	37	45	215	180	250	M12	4	4	315	255	615	M16X36
FMA 160L-..	B14/C1	42	110	12	37	45	265	230	300	M16	5	4	315	255	670	M16X36
FMA 160L-..	B14/C2	42	110	12	37	45	215	180	250	M12	4	4	315	255	670	M16X36

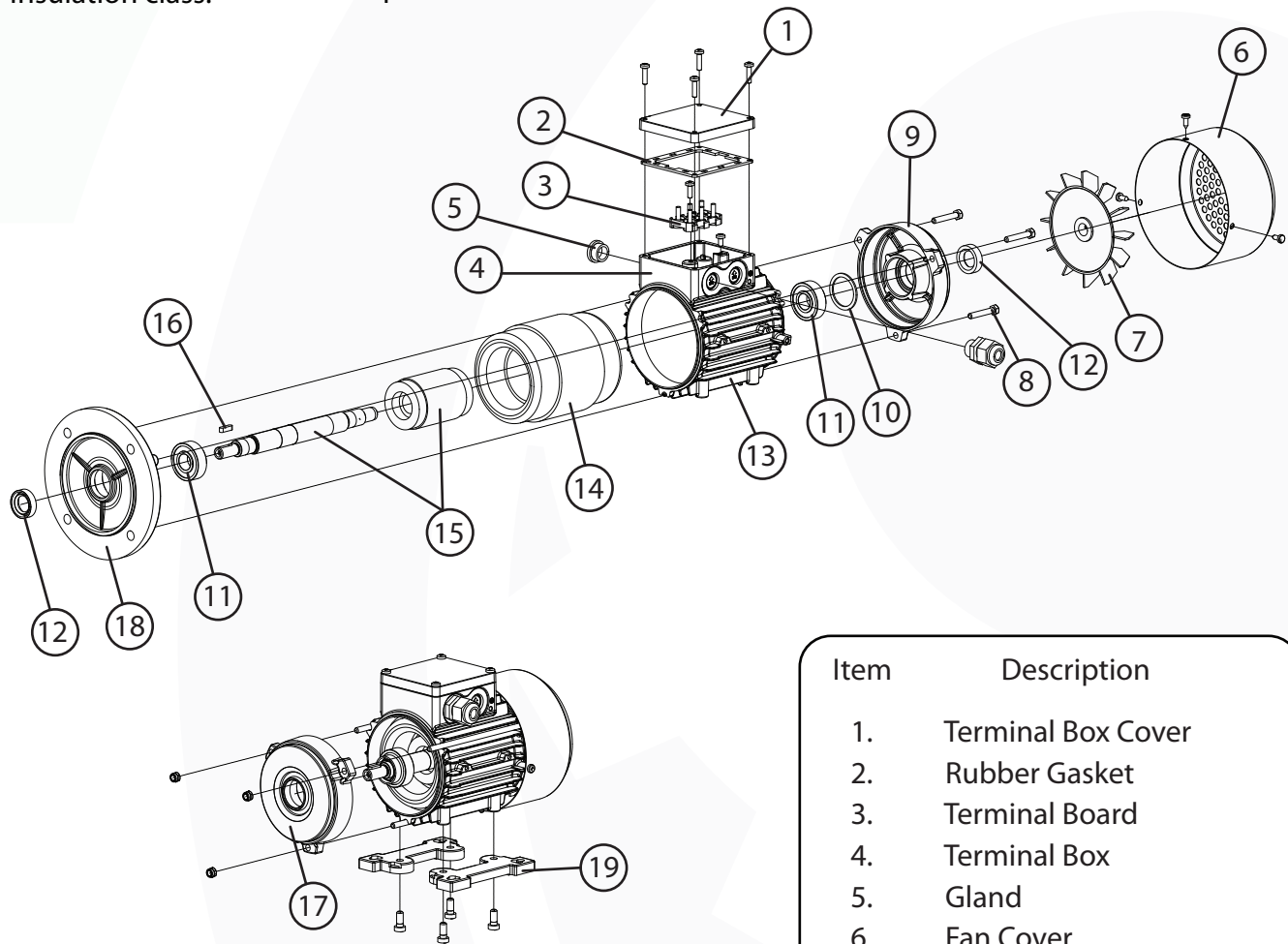
FMA Series B34 dimension



Frame size	Flange	A	B	C	D	E	F	G	GA	H	K	M	N	P	S	T	Flange Holes	AB	AC	AD	L	DH
FMA 56-..	B14/C1	90	71	36	9	20	3	7.2	10	56	5.8	85	70	105	M6	2.5	4	115	110	100	199	M4X12
FMA 56-..	B14/C2	90	71	36	9	20	3	7.2	10	56	5.8	65	50	80	M5	2.5	4	115	110	100	199	M4X12
FMA 63-..	B14/C1	100	80	40	11	23	4	8.5	13	63	7	100	80	120	M6	2.5	4	137	123	111	221	M4X12
FMA 63-..	B14/C2	100	80	40	11	23	4	8.5	13	63	7	75	60	90	M5	2.5	4	137	123	111	221	M4X12
FMA 71-..	B14/C1	112	90	45	14	30	5	11	16	71	7	115	95	140	M8	3	4	133	137	127	247	M5X12
FMA 71-..	B14/C2	112	90	45	14	30	5	11	16	71	7	85	70	105	M6	2.5	4	133	137	127	247	M5X12
FMA 80-..	B14/C1	125	100	50	19	40	6	16	22	80	10	130	110	160	M8	3.5	4	157	155	136	297	M6X16
FMA 80-..	B14/C2	125	100	50	19	40	6	16	22	80	10	100	80	120	M6	3	4	157	155	136	297	M6X16
FMA 90S-..	B14/C1	140	100	56	24	50	8	20	28	90	10	130	110	160	M8	3.5	4	175	175	144	315	M8X19
FMA 90S-..	B14/C2	140	100	56	24	50	8	20	28	90	10	115	95	140	M8	3	4	175	175	144	315	M8X19
FMA 90L-..	B14/C1	140	125	56	24	50	8	20	28	90	10	130	110	160	M8	3.5	4	175	175	144	340	M8X19
FMA 90L-..	B14/C2	140	125	56	24	50	8	20	28	90	10	115	95	140	M8	3	4	175	175	144	340	M8X19
FMA 100L-..	B14/C1	160	140	63	28	60	8	24	32	100	12	165	130	200	M10	3.5	4	200	196	160	385	M10X22
FMA 100L-..	B14/C2	160	140	63	28	60	8	24	32	100	12	130	110	160	M8	3.5	4	200	196	160	385	M10X22
FMA 112M-..	B14/C1	190	140	70	28	60	8	24	32	112	12	165	130	200	M10	3.5	4	226	220	183	400	M10X22
FMA 112M-..	B14/C2	190	140	70	28	60	8	24	32	112	12	130	110	160	M8	3.5	4	226	220	183	400	M10X22
FMA 132S-..	B14/C1	216	140	89	38	80	10	33	43	132	12	215	180	250	M12	4	4	260	259	198	483	M12X28
FMA 132S-..	B14/C2	216	140	89	38	80	10	33	43	132	12	165	130	200	M10	3.5	4	260	259	198	483	M12X28
FMA 132M-..	B14/C1	216	178	89	38	80	10	33	43	132	12	215	180	250	M12	4	4	260	259	198	510	M12X28
FMA 132M-..	B14/C2	216	178	89	38	80	10	33	43	132	12	165	130	200	M10	3.5	4	260	259	198	510	M12X28
FMA 160M-..	B14/C1	254	210	108	42	110	12	37	45	160	15	265	230	300	M16	5	4	314	315	255	615	M16X36
FMA 160M-..	B14/C2	254	210	108	42	110	12	37	45	160	15	215	180	250	M12	4	4	314	315	255	615	M16X36
FMA 160L-..	B14/C1	254	254	108	42	110	12	37	45	160	15	265	230	300	M16	5	4	314	315	255	670	M16X36
FMA 160L-..	B14/C2	254	254	108	42	110	12	37	45	160	15	215	180	250	M12	4	4	314	315	255	670	M16X36

FM Series - Cast Iron Housing

- Duty: S1
- Rated voltage: 230V, 380V, 400V, 690V (Δ / Y)
- Frequency: 50/60 Hz
- Ambient temperature: from -15°C to +40°C
- Mounting height: up to 1000 m above sea level
- Insulation class: F



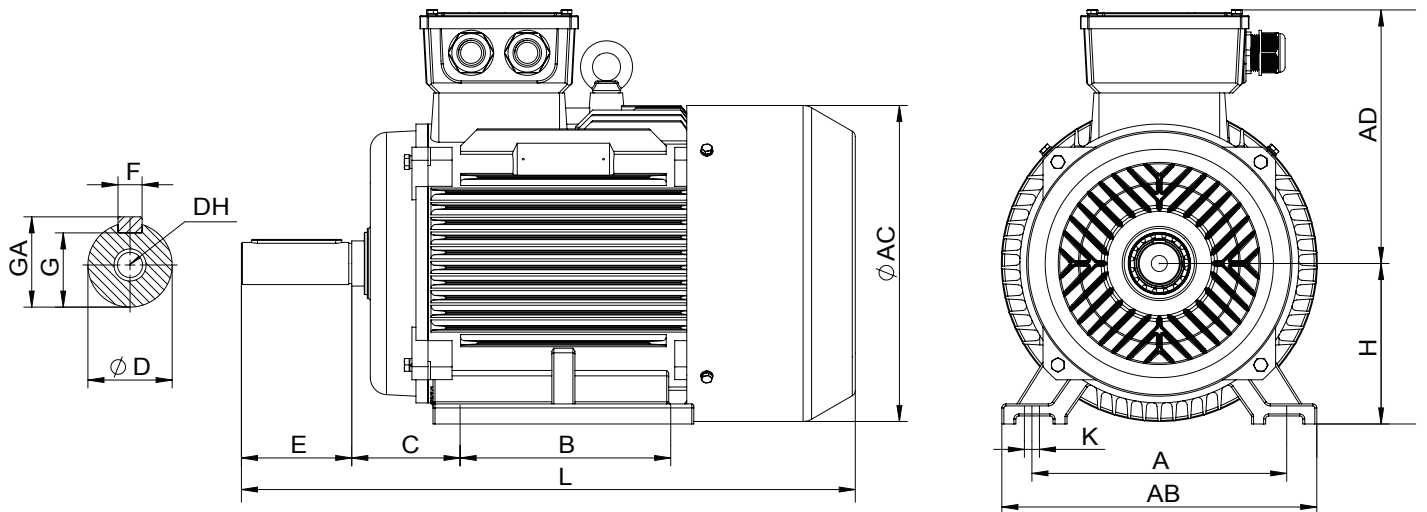
Item	Description
1.	Terminal Box Cover
2.	Rubber Gasket
3.	Terminal Board
4.	Terminal Box
5.	Gland
6.	Fan Cover
7.	Fan
8.	Tie Rod
9.	NDE Shield
10.	Spring Washer
11.	Bearing
12.	Shaft Seal
13.	Housing
14.	Stator
15.	Rotor
16.	Key
17.	DE Shield
18.	Flange End Shield
19.	Feet

FM Series - Cast Iron Housing

Item	Type	Rated Output		Rated Speed	Rated Torque	Efficiency	Power factor	Full Load Current			Locked Rotor Torque	Breakdown Torque	Locked Rotor Current	Moment of inertia	Sound Pressure Level	Weight
		P_N		n_N	T_N	η_N [%] at %	$\cos \varphi_N$	I_N at rated voltage			T_L/T_N	T_B/T_N	I_L/I_N	J	L_{pA}	m
		[kW]	[HP]	[min ⁻¹]	[Nm]	100 %	[-]	[A]230V	[A]380V	[A]400V	[-]	[-]	[-]	[kgm ² x 10 ⁻³]	[dB]	[kg]
2p=2 $n_s=3000$ rpm																
1	FM80-2A	0.75	1	2840	2.52	75.0	0.83	3.01	1.77	1.74	2.2	2.3	6.1	0.75	67	16
2	FM80-2B	1.1	1.5	2840	3.70	76.2	0.84	4.30	2.61	2.48	2.2	2.3	6.9	0.9	67	17
3	FM90S-2	1.5	2	2850	5.03	78.5	0.84	5.68	3.46	3.28	2.2	2.3	7.0	1.2	72	20
4	FM90L-2	2.2	3	2855	7.36	81.0	0.85	7.98	4.85	4.61	2.2	2.3	7.0	1.4	72	23
5	FM100L-2	3	4	2860	10.02	82.6	0.87	10.44	6.34	6.03	2.2	2.3	7.5	2.9	76	30
6	FM112M-2	4	5.5	2880	13.26	84.2	0.88	-	8.20	7.79	2.2	2.3	7.5	5.5	77	41
7	FM132S-2A	5.5	7.5	2900	18.11	85.7	0.88	-	11.10	10.53	2.2	2.3	7.5	10.9	80	57.5
8	FM132S-2B	7.5	10	2900	24.70	87.0	0.88	-	14.90	14.10	2.2	2.3	7.5	12.6	80	60.5
9	FM160M-2A	11	15	2930	35.85	88.4	0.89	-	21.20	20.20	2.2	2.3	7.5	37.7	86	107
10	FM160M-2B	15	20	2930	48.89	89.4	0.89	-	28.60	27.20	2.2	2.3	7.5	49.9	86	114
11	FM160L-2	18.5	25	2930	60.30	90.0	0.90	-	34.70	33.00	2.2	2.3	7.5	55	86	133
12	FM180M-2	22	30	2940	71.46	90.5	0.90	-	41.00	39.00	2.0	2.3	7.5	75	89	165
13	FM200L-2A	30	40	2950	97.12	91.4	0.90	-	55.40	52.60	2.0	2.3	7.5	124	92	218
14	FM200L-2B	37	50	2950	119.78	92.0	0.90	-	67.90	64.50	2.0	2.3	7.5	139	92	230
15	FM225M-2	45	60	2960	145.19	92.5	0.90	-	82.10	78.00	2.0	2.3	7.5	233	92	290
16	FM250M-2	55	75	2970	176.85	93.0	0.90	-	100.00	94.80	2.0	2.3	7.5	312	93	359
17	FM280S-2	75	100	2975	240.76	93.6	0.90	-	135.00	129.00	2.0	2.3	7.0	579	94	475
18	FM280M-2	90	125	2975	288.91	93.9	0.91	-	160.00	152.00	2.0	2.3	7.1	675	94	510
19	FM315S-2	110	150	2975	353.11	94.0	0.91	-	195.00	186.00	1.8	2.2	7.1	1180	96	875
20	FM315M-2	132	180	2975	423.73	94.5	0.91	-	233.00	222.00	1.8	2.2	7.1	1820	96	963
21	FM315L-2A	160	220	2975	513.61	94.6	0.92	-	279.00	265.00	1.8	2.2	7.1	2080	99	1010
22	FM315L-2B	200	270	2975	642.02	94.8	0.92	-	348.00	331.00	1.8	2.2	7.1	2380	99	1138
23	FM355M-2	250	340	2980	801.17	95.2	0.92	-	433.00	412.00	1.6	2.2	7.1	3000	103	1900
24	FM355L-2	315	430	2980	1009.48	95.4	0.92	-	545.00	518.00	1.6	2.2	7.1	3500	103	2300
2p=4 $n_s=1500$ rpm																
25	FM80-4A	0.55	0.75	1390	3.78	71.0	0.75	2.58	1.57	1.49	2.4	2.3	5.2	1.8	58	15
26	FM80-4B	0.75	1	1380	5.19	73.0	0.76	3.38	2.05	1.95	2.3	2.3	6.0	2.1	58	15.5
27	FM90S-4	1.1	1.5	1390	7.56	76.2	0.77	4.69	2.85	2.71	2.3	2.3	6.0	2.3	61	19
28	FM90L-4	1.5	2	1400	10.23	78.5	0.78	6.13	3.72	3.54	2.3	2.3	6.0	2.7	61	23
29	FM100L-4A	2.2	3	1410	14.90	80.0	0.81	8.49	5.09	4.90	2.3	2.3	7.0	5.4	64	29
30	FM100L-4B	3	4	1410	20.32	82.6	0.82	11.07	6.78	6.39	2.3	2.3	7.0	6.7	64	31
31	FM112M-4	4	5.5	1435	26.62	84.2	0.82	-	8.80	8.36	2.3	2.3	7.0	9.5	65	42
32	FM132S-4	5.5	7.5	1440	36.48	85.7	0.83	-	11.70	11.20	2.3	2.3	7.0	21.4	71	63.5
33	FM132M-4	7.5	10	1450	49.40	87.0	0.84	-	15.60	14.80	2.3	2.3	7.0	29.6	71	72
34	FM160M-4	11	15	1460	71.95	88.4	0.84	-	22.50	21.40	2.2	2.3	7.0	74.7	75	110
35	FM160L-4	15	20	1460	98.12	89.4	0.85	-	30.00	28.50	2.2	2.3	7.5	91.8	75	129
36	FM180M-4	18.5	25	1470	120.19	90.0	0.86	-	36.30	34.50	2.2	2.3	7.5	139	76	160
37	FM180L-4	22	30	1470	142.93	90.5	0.86	-	43.20	40.80	2.2	2.3	7.5	158	76	178
38	FM200L-4	30	40	1470	194.90	91.4	0.86	-	57.60	55.10	2.2	2.3	7.2	262	79	228
39	FM225S-4	37	50	1475	239.56	92.0	0.87	-	70.20	66.70	2.2	2.3	7.2	406	81	288
40	FM225M-4	45	60	1475	291.36	92.5	0.87	-	84.90	80.70	2.2	2.3	7.2	469	81	313
41	FM250M-4	55	75	1480	354.90	93.0	0.87	-	103.00	98.10	2.2	2.3	7.2	660	83	376
42	FM280S-4	75	100	1480	483.95	93.6	0.88	-	138.30	131.00	2.2	2.3	6.8	1120	86	508
43	FM280M-4	90	125	1480	580.74	93.9	0.88	-	165.00	157.00	2.2	2.3	6.8	1640	86	581
44	FM315S-4	110	150	1480	709.80	94.5	0.88	-	201.00	191.00	2.1	2.2	6.9	3100	93	846
45	FM315M-4	132	180	1480	851.76	94.8	0.88	-	240.00	228.00	2.1	2.2	6.9	3620	93	940
46	FM315L-4A	160	220	1480	1032.43	94.9	0.89	-	288.00	273.00	2.1	2.2	6.9	4130	97	1044
47	FM315L-4B	200	270	1480	1290.54	94.9	0.89	-	360.00	342.00	2.1	2.2	6.9	4730	97	1162
48	FM355M-4A	225	300	1490	1442.11	94.9	0.89	-	396.00	376.00	2.1	2.2	6.9	5800	101	1600
49	FM355M-4B	250	340	1490	1602.35	95.2	0.90	-	443.00	421.00	2.1	2.2	6.9	6500	101	1700
50	FM355L-4	315	430	1490	2018.96	95.2	0.90	-	559.00	531.00	2.1	2.2	6.9	8200	101	1900

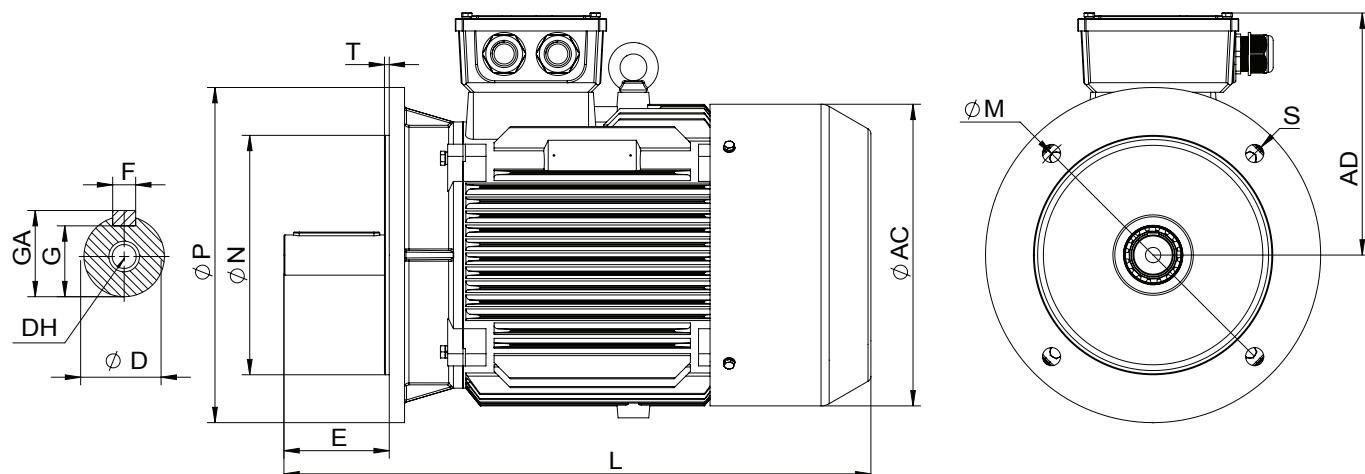
Item	Type	Rated Output		Rated Speed	Rated Torque	Efficiency	Power factor	Full Load Current			Locked Rotor Torque	Breakdown Torque	Locked Rotor Current	Moment of inertia	Sound Pressure Level	Weight
		P_N		n_N	T_N	η_N [%] at % of full load	$\cos \phi_N$	I_N at rated voltage			T_L/T_N	T_B/T_N	I_L/I_N	J	L_{pA}	m
		[kW]	[HP]	[min ⁻¹]	[Nm]	100 %	[-]	[A]230V	[A]380V	[A]400V	[-]	[-]	[-]	[kgm ² x10 ⁻³]	[dB]	[kg]
2p=6 $n_s=1000$ rpm																
51	FM80-6A	0.37	0.5	880	4.02	62.0	0.70	2.13	1.30	1.23	1.9	2.0	4.7	1.6	54	15
52	FM80-6B	0.55	0.75	880	5.97	65.0	0.72	2.94	1.80	1.70	1.9	2.1	4.7	1.9	54	16
53	FM90S-6	0.75	1	905	7.91	69.0	0.72	3.78	2.29	2.18	2.0	2.1	5.3	2.9	57	20
54	FM90L-6	1.1	1.5	905	11.61	72.0	0.73	5.23	3.18	3.02	2.0	2.1	5.5	3.5	57	23
55	FM100L-6	1.5	2	920	15.57	76.0	0.75	6.58	4.00	3.80	2.0	2.1	5.5	6.9	61	29
56	FM112M-6	2.2	3	935	22.47	79.0	0.76	9.16	5.60	5.29	2.0	2.1	6.5	14	65	41
57	FM132S-6	3	4	960	29.84	81.0	0.76	12.18	7.40	7.03	2.1	2.1	6.5	28.6	69	59
58	FM132M-6A	4	5.5	960	39.79	82.0	0.76	-	9.75	9.26	2.1	2.1	6.5	35.7	69	66
59	FM132M-6B	5.5	7.5	960	54.71	84.0	0.77	-	12.90	12.30	2.1	2.1	6.5	44.9	69	76.5
60	FM160M-6	7.5	10	970	73.84	86.0	0.77	-	17.20	16.30	2.0	2.1	6.5	81	73	106
61	FM160L-6	11	15	970	108.30	87.5	0.78	-	24.50	23.30	2.0	2.1	6.5	116	73	122
62	FM180L-6	15	20	970	147.68	89.0	0.81	-	31.60	30.00	2.0	2.1	7.0	207	73	167
63	FM200L-6A	18.5	25	980	180.28	90.0	0.81	-	38.60	36.60	2.1	2.1	7.0	315	76	236
64	FM200L-6B	22	30	980	214.39	90.0	0.83	-	44.70	42.50	2.0	2.1	7.0	360	76	247
65	FM225M-6	30	40	980	292.35	91.5	0.84	-	59.30	56.30	2.0	2.1	7.0	547	76	287
66	FM250M-6	37	50	980	360.56	92.0	0.86	-	71.00	67.50	2.1	2.1	7.0	843	78	355
67	FM280S-6	45	60	980	438.52	92.5	0.86	-	86.00	81.70	2.1	2.0	7.0	1390	80	444
68	FM280M-6	55	75	980	535.97	92.8	0.86	-	104.00	99.50	2.1	2.0	7.0	1650	80	498
69	FM315S-6	75	100	985	727.16	93.5	0.86	-	142.00	135.00	2.0	2.0	6.7	4110	85	859
70	FM315M-6	90	125	985	872.59	93.8	0.86	-	169.00	161.00	2.0	2.0	6.7	4780	85	950
71	FM315L-6A	110	150	985	1066.50	94.0	0.86	-	207.00	196.00	2.0	2.0	6.7	5450	85	1031
72	FM315L-6B	132	180	985	1279.80	94.2	0.87	-	245.00	232.00	2.0	2.0	6.7	6120	85	1107
73	FM355M-6A	160	220	990	1543.43	94.5	0.88	-	292.00	278.00	1.9	2.0	6.7	9500	92	1550
74	FM355M-6B	200	270	990	1929.29	94.5	0.88	-	365.00	347.00	1.9	2.0	6.7	10400	92	1600
75	FM355L-6	250	340	990	2411.62	94.5	0.88	-	457.00	434.00	1.9	2.0	6.7	12400	92	1700
2p=8 $n_s=750$ rpm																
76	FM80-8A	0.18	0.25	645	2.67	51.0	0.61	1.45	0.83	0.84	1.8	1.9	3.3	2.5	52	15
77	FM80-8B	0.25	0.33	645	3.70	54.0	0.61	1.91	1.10	1.10	1.8	1.9	3.3	3	52	16
78	FM90S-8	0.37	0.5	675	5.23	62.0	0.61	2.44	1.49	1.41	1.8	1.9	4.0	5.1	56	20
79	FM90L-8	0.55	0.75	680	7.72	63.0	0.61	3.59	2.17	2.07	1.8	2.0	4.0	6.5	56	23
80	FM100L-8A	0.75	1	680	10.53	70.0	0.67	4.00	2.43	2.31	1.8	2.0	4.0	9	59	29
81	FM100L-8B	1.1	1.5	680	15.45	72.0	0.69	5.54	3.36	3.20	1.8	2.0	5.0	11	59	31
82	FM112M-8	1.5	2	690	20.76	74.0	0.70	7.24	4.40	4.18	1.8	2.0	5.0	24.5	61	41
83	FM132S-8	2.2	3	710	29.59	79.0	0.71	9.80	6.00	5.66	1.8	2.0	6.0	31.4	64	61
84	FM132M-8	3	4	710	40.35	80.0	0.73	12.83	7.80	7.41	1.8	2.0	6.0	39.5	64	74
85	FM160M-8A	4	5.5	720	53.06	81.0	0.73	-	10.30	9.76	1.9	2.0	6.0	75.3	68	95.5
86	FM160M-8B	5.5	7.5	720	72.95	83.0	0.74	-	13.60	12.90	1.9	2.0	6.0	93.1	68	107
87	FM160L-8	7.5	10	720	99.48	85.5	0.75	-	17.80	16.90	1.9	2.0	6.0	126	68	128
88	FM180L-8	11	15	730	143.90	87.5	0.75	-	25.50	24.20	2.0	2.0	6.5	203	70	169
89	FM200L-8	15	20	730	196.23	88.0	0.76	-	34.10	32.40	2.0	2.0	6.6	339	73	236
90	FM225S-8	18.5	25	730	242.02	90.0	0.76	-	41.10	39.00	1.9	2.0	6.6	491	73	274
91	FM225M-8	22	30	730	287.81	90.5	0.78	-	48.90	45.00	1.9	2.0	6.6	547	73	290
92	FM250M-8	30	40	735	389.80	91.0	0.79	-	63.00	60.20	1.9	2.0	6.5	834	75	370
93	FM280S-8	37	50	740	477.50	91.5	0.79	-	78.00	73.90	1.9	2.0	6.6	1650	76	488
94	FM280M-8	45	60	740	580.74	92.0	0.79	-	94.00	89.40	1.9	2.0	6.6	1930	76	563
95	FM315S-8	55	75	735	714.63	92.8	0.81	-	111.00	106.00	1.8	2.0	6.6	4790	82	852
96	FM315M-8	75	100	735	974.49	93.5	0.81	-	150.00	143.00	1.8	2.0	6.2	5580	82	933
97	FM315L-8A	90	125	735	1169.39	93.8	0.82	-	178.00	169.00	1.8	2.0	6.4	6370	82	1027
98	FM315L-8B	110	150	735	1429.25	94.0	0.82	-	217.00	206.00	1.8	2.0	6.4	7230	82	1117
99	FM355M-8A	132	180	740	1703.51	93.7	0.82	-	261.00	248.00	1.8	2.0	6.4	7900	90	2000
100	FM355M-8B	160	220	740	2064.86	94.2	0.82	-	315.00	299.00	1.8	2.0	6.4	10300	90	2150
101	FM355L-8	200	270	740	2581.08	94.5	0.83	-	387.00	368.00	1.8	2.0	6.4	12300	90	2250

FM Series B3 dimension



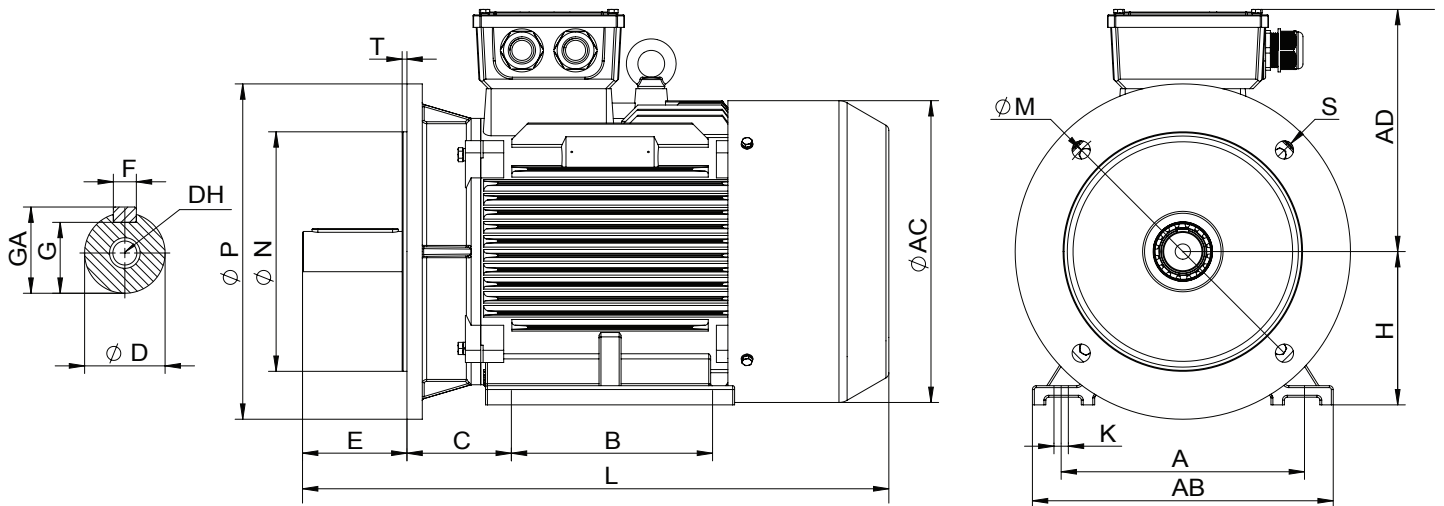
Frame size	A	B	C	D	E	F	G	GA	H	K	AB	AC	AD	L	DH
FM 80-..	125	100	50	19	40	6	15.5	21.5	80	10	165	155	145	295	M6X16
FM 90S-..	140	100	56	24	50	8	20	28	90	10	180	175	155	320	M8X19
FM 90L-..	140	125	56	24	50	8	20	28	90	10	180	175	155	345	M8X19
FM 100L-..	160	140	63	28	60	8	24	32	100	12	205	196	180	385	M10X22
FM 112M-..	190	140	70	28	60	8	24	32	112	12	230	220	190	400	M10X22
FM 132S-..	216	140	89	38	80	10	33	43	132	12	270	259	210	470	M12X28
FM 132M-..	216	178	89	38	80	10	33	43	132	12	270	259	210	510	M12X28
FM 160M-..	254	210	108	42	110	12	37	45	160	15	320	315	255	615	M16X36
FM 160L-..	254	254	108	42	110	12	37	45	160	15	320	315	255	660	M16X36
FM 180M-..	279	241	121	48	110	14	42.5	51.5	180	15	355	355	280	700	M16X36
FM 180L-..	279	279	121	48	110	14	42.5	51.5	180	15	355	355	280	740	M16X36
FM 200L-..	318	305	133	55	110	16	49	59	200	19	395	397	305	770	M20X42
FM 225S-..	356	286	149	60	140	18	53	68	225	19	435	445	335	815	M20X42
FM 225M-2	356	311	149	55	110	16	49	59	225	19	435	445	335	820	M20X42
FM 225M-..	356	311	149	60	140	18	53	68	225	19	435	445	335	845	M20X42
FM 250M-2	406	349	168	60	140	18	53	68	250	24	490	485	370	920	M20X42
FM 250M-..	406	349	168	65	140	18	58	73	250	24	490	485	370	920	M20X42
FM 280S-2	457	368	190	65	140	18	58	73	280	24	550	547	410	995	M20X42
FM 280S-..	457	368	190	75	140	20	67.5	82.5	280	24	550	547	410	995	M20X42
FM 280M-2	457	419	190	65	140	18	58	73	280	24	550	547	410	1045	M20X42
FM 280M-..	457	419	190	75	140	20	67.5	82.5	280	24	550	547	410	1045	M20X42
FM 315S-2	508	406	216	65	140	18	58	69	315	28	635	620	530	1185	M20X42
FM 315S-..	508	406	216	80	170	22	71	85	315	28	635	620	530	1220	M20X42
FM 315M-2	508	457	216	65	140	18	58	69	315	28	635	620	530	1290	M20X42
FM 315M-..	508	457	216	80	170	22	71	85	315	28	635	620	530	1325	M20X42
FM 315L-2..	508	508	216	65	140	18	58	69	315	28	635	620	530	1290	M20X42
FM 315L-..	508	508	216	80	170	22	71	85	315	28	635	620	530	1325	M20X42
FM 355M-2	610	560	254	75	140	20	67.5	79.5	355	28	730	698	655	1500	M20X42
FM 355M-..	610	560	254	95	170	25	86	100	355	28	730	698	655	1530	M20X42
FM 355L-2	610	630	254	75	140	20	67.5	79.5	355	28	730	698	655	1500	M20X42
FM 355L-..	610	630	254	95	170	25	86	100	355	28	730	698	655	1530	M20X42

FM Series B5 dimension



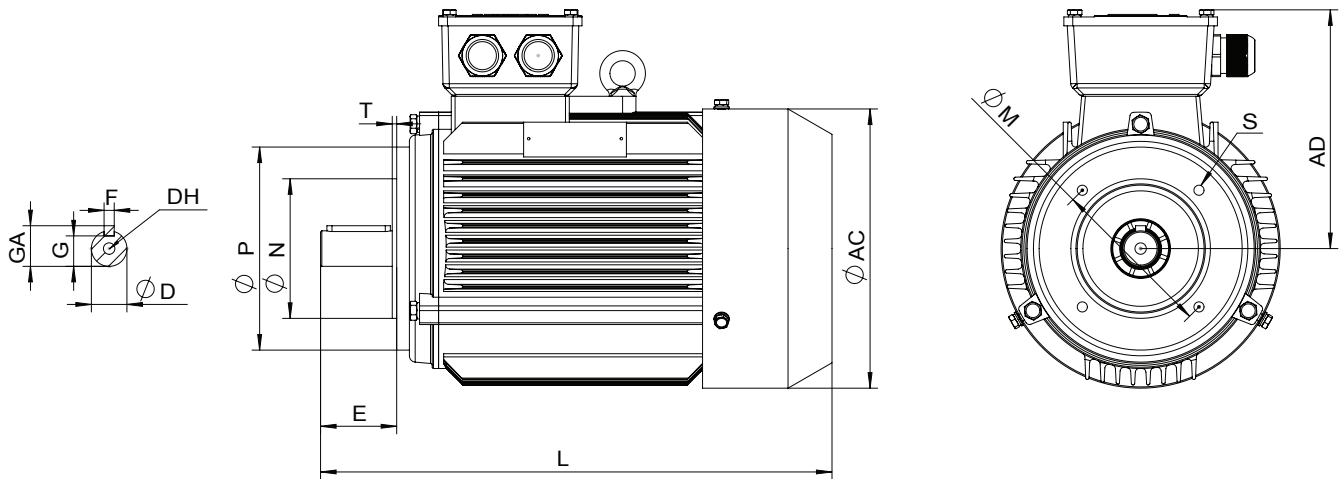
Frame size	D	E	F	G	GA	M	N	P	S	T	Flange Holes	AC	AD	L	DH
FM 80-..	19	40	6	15.5	21.5	165	130	200	12	3.5	4	155	145	295	M6X16
FM 90S-..	24	50	8	20	28	165	130	200	12	3.5	4	175	155	320	M8X19
FM 90L-..	24	50	8	20	28	165	130	200	12	3.5	4	175	155	345	M8X19
FM 100L-..	28	60	8	24	32	215	180	250	15	4	4	196	180	385	M10X22
FM 112M-..	28	60	8	24	32	215	180	250	15	4	4	220	190	400	M10X22
FM 132S-..	38	80	10	33	43	265	230	300	15	4	4	259	210	470	M12X28
FM 132M-..	38	80	10	33	43	265	230	300	15	4	4	259	210	510	M12X28
FM 160M-..	42	110	12	37	45	300	250	350	19	5	4	315	255	615	M16X36
FM 160L-..	42	110	12	37	45	300	250	350	19	5	4	315	255	660	M16X36
FM 180M-..	48	110	14	42.5	51.5	300	250	350	19	5	4	355	280	700	M16X36
FM 180L-..	48	110	14	42.5	51.5	300	250	350	19	5	4	355	280	740	M16X36
FM 200L-..	55	110	16	49	59	350	300	400	19	5	4	397	305	770	M20X42
FM 225S-..	60	140	18	53	68	400	350	450	19	5	8	445	335	815	M20X42
FM 225M-2	55	110	16	49	59	400	350	450	19	5	8	445	335	820	M20X42
FM 225M-..	60	140	18	53	68	400	350	450	19	5	8	445	335	845	M20X42
FM 250M-2	60	140	18	53	68	500	450	550	19	5	8	485	370	920	M20X42
FM 250M-..	65	140	18	58	73	500	450	550	19	5	8	485	370	920	M20X42
FM 280S-2	65	140	18	58	73	500	450	550	19	5	8	547	410	995	M20X42
FM 280S-..	75	140	20	67.5	82.5	500	450	550	19	5	8	547	410	995	M20X42
FM 280M-2	65	140	18	58	73	500	450	550	19	5	8	547	410	1045	M20X42
FM 280M-..	75	140	20	67.5	82.5	500	450	550	19	5	8	547	410	1045	M20X42
FM 315S-2	65	140	18	58	69	600	550	660	24	6	8	620	530	1185	M20X42
FM 315S-..	80	170	22	71	85	600	550	660	24	6	8	620	530	1220	M20X42
FM 315M-2	65	140	18	58	69	600	550	660	24	6	8	620	530	1290	M20X42
FM 315M-..	80	170	22	71	85	600	550	660	24	6	8	620	530	1325	M20X42
FM 315L-2..	65	140	18	58	69	600	550	660	24	6	8	620	530	1290	M20X42
FM 315L-..	80	170	22	71	85	600	550	660	24	6	8	620	530	1325	M20X42
FM 355M-2	75	140	20	67.5	79.5	740	680	800	24	6	8	698	655	1500	M20X42
FM 355M-..	95	170	25	86	100	740	680	800	24	6	8	698	655	1530	M20X42
FM 355L-2	75	140	20	67.5	79.5	740	680	800	24	6	8	698	655	1500	M20X42
FM 355L-..	95	170	25	86	100	740	680	800	24	6	8	698	655	1530	M20X42

FM Series B35 dimension



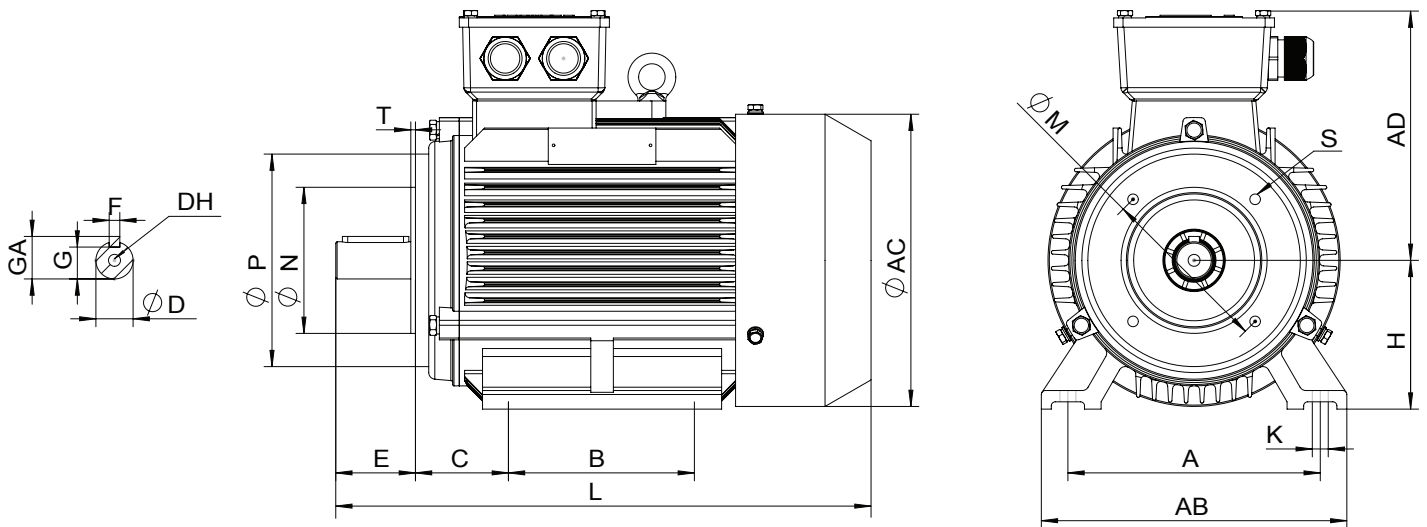
Frame Size	A	B	C	D	E	F	G	GA	H	K	M	N	P	S	T	Flange Holes	AB	AC	AD	L	DH
FM 80-..	125	100	50	19	40	6	15.5	21.5	80	10	165	130	200	12	3.5	4	165	155	145	295	M6X16
FM 90S-..	140	100	56	24	50	8	20	28	90	10	165	130	200	12	3.5	4	180	175	155	320	M8X19
FM 90L-..	140	125	56	24	50	8	20	28	90	10	165	130	200	12	3.5	4	180	175	155	345	M8X19
FM 100L-..	160	140	63	28	60	8	24	32	100	12	215	180	250	15	4	4	205	196	180	385	M10X22
FM 112M-..	190	140	70	28	60	8	24	32	112	12	215	180	250	15	4	4	230	220	190	400	M10X22
FM 132S-..	216	140	89	38	80	10	33	43	132	12	265	230	300	15	4	4	270	259	210	470	M12X28
FM 132M-..	216	178	89	38	80	10	33	43	132	12	265	230	300	15	4	4	270	259	210	510	M12X28
FM 160M-..	254	210	108	42	110	12	37	45	160	15	300	250	350	19	5	4	320	315	255	615	M16X36
FM 160L-..	254	254	108	42	110	12	37	45	160	15	300	250	350	19	5	4	320	315	255	660	M16X36
FM 180M-..	279	241	121	48	110	14	42.5	51.5	180	15	300	250	350	19	5	4	355	355	280	700	M16X36
FM 180L-..	279	279	121	48	110	14	42.5	51.5	180	15	300	250	350	19	5	4	355	355	280	740	M16X36
FM 200L-..	318	305	133	55	110	16	49	59	200	19	350	300	400	19	5	4	395	397	305	770	M20X42
FM 225S-..	356	286	149	60	140	18	53	68	225	19	400	350	450	19	5	8	435	445	335	815	M20X42
FM 225M-2	356	311	149	55	110	16	49	59	225	19	400	350	450	19	5	8	435	445	335	820	M20X42
FM 225M-..	356	311	149	60	140	18	53	68	225	19	400	350	450	19	5	8	435	445	335	845	M20X42
FM 250M-2	406	349	168	60	140	18	53	68	250	24	500	450	550	19	5	8	490	485	370	920	M20X42
FM 250M-..	406	349	168	65	140	18	58	73	250	24	500	450	550	19	5	8	490	485	370	920	M20X42
FM 280S-2	457	368	190	65	140	18	58	73	280	24	500	450	550	19	5	8	550	547	410	995	M20X42
FM 280S-..	457	368	190	75	140	20	67.5	82.5	280	24	500	450	550	19	5	8	550	547	410	995	M20X42
FM 280M-2	457	419	190	65	140	18	58	73	280	24	500	450	550	19	5	8	550	547	410	1045	M20X42
FM 280M-..	457	419	190	75	140	20	67.5	82.5	280	24	500	450	550	19	5	8	550	547	410	1045	M20X42
FM 315S-2	508	406	216	65	140	18	58	69	315	28	600	550	660	24	6	8	635	620	530	1185	M20X42
FM 315S-..	508	406	216	80	170	22	71	85	315	28	600	550	660	24	6	8	635	620	530	1220	M20X42
FM 315M-2	508	457	216	65	140	18	58	69	315	28	600	550	660	24	6	8	635	620	530	1290	M20X42
FM 315M-..	508	457	216	80	170	22	71	85	315	28	600	550	660	24	6	8	635	620	530	1325	M20X42
FM 315L-2..	508	508	216	65	140	18	58	69	315	28	600	550	660	24	6	8	635	620	530	1290	M20X42
FM 315L-..	508	508	216	80	170	22	71	85	315	28	600	550	660	24	6	8	635	620	530	1325	M20X42
FM 355M-2	610	560	254	75	140	20	67.5	79.5	355	28	740	680	800	24	6	8	730	698	655	1500	M20X42
FM 355M-..	610	560	254	95	170	25	86	100	355	28	740	680	800	24	6	8	730	698	655	1530	M20X42
FM 355L-2	610	630	254	75	140	20	67.5	79.5	355	28	740	680	800	24	6	8	730	698	655	1500	M20X42
FM 355L-..	610	630	254	95	170	25	86	100	355	28	740	680	800	24	6	8	730	698	655	1530	M20X42

FM Series B14 dimension



Frame size	Flange	D	E	F	G	GA	M	N	P	S	T	Flange Holes	AC	AD	L	DH
FM 80-..	B14/C1	19	40	6	15.5	21.5	130	110	160	M8	3.5	4	155	145	295	M6X16
FM 80-..	B14/C2	19	40	6	15.5	21.5	100	80	120	M6	3	4	155	145	295	M6X16
FM 90S-..	B14/C1	24	50	8	20	28	130	110	160	M8	3.5	4	175	155	320	M8X19
FM 90S-..	B14/C2	24	50	8	20	28	115	95	140	M8	3	4	175	155	320	M8X19
FM 90L-..	B14/C1	24	50	8	20	28	130	110	160	M8	3.5	4	175	155	345	M8X19
FM 90L-..	B14/C2	24	50	8	20	28	115	95	140	M8	3	4	175	155	345	M8X19
FM 100L-..	B14/C1	28	60	8	24	32	165	130	200	M10	3.5	4	196	180	385	M10X22
FM 100L-..	B14/C2	28	60	8	24	32	130	110	160	M8	3.5	4	196	180	385	M10X22
FM 112M-..	B14/C1	28	60	8	24	32	165	130	200	M10	3.5	4	220	190	400	M10X22
FM 112M-..	B14/C2	28	60	8	24	32	130	110	160	M8	3.5	4	220	190	400	M10X22
FM 132S-..	B14/C1	38	80	10	33	43	215	180	250	M12	4	4	259	210	470	M12X28
FM 132S-..	B14/C2	38	80	10	33	43	165	130	200	M10	3.5	4	259	210	470	M12X28
FM 132M-..	B14/C1	38	80	10	33	43	215	180	250	M12	4	4	259	210	510	M12X28
FM 132M-..	B14/C2	38	80	10	33	43	165	130	200	M10	3.5	4	259	210	510	M12X28

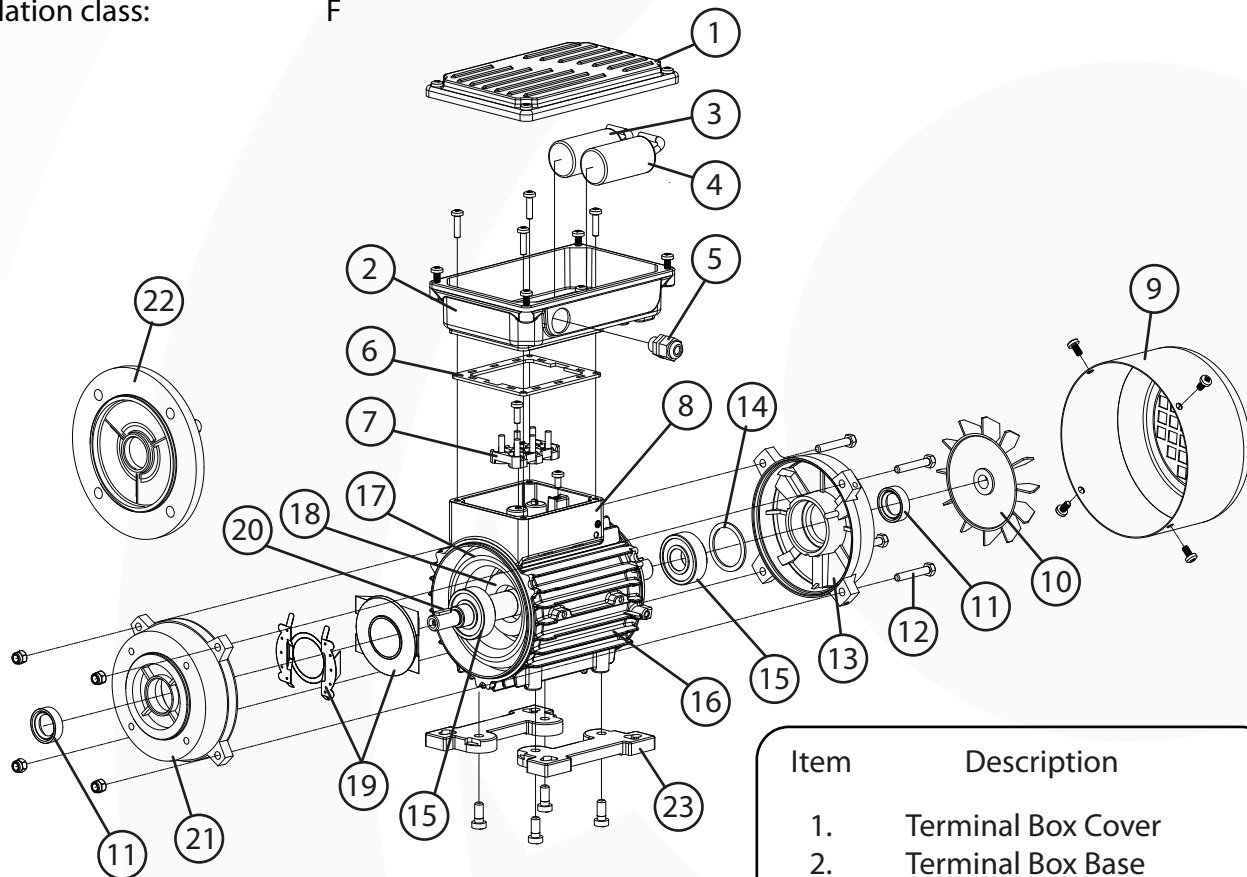
FM Series B34 dimension



Frame size	Flange	A	B	C	D	E	F	G	GA	H	K	M	N	P	S	T	Flange Holes	AB	AC	AD	L	DH
FM 80-..	B14/C1	125	100	50	19	40	6	15.5	21.5	80	10	130	110	160	M8	3.5	4	165	155	145	295	M6X16
FM 80-..	B14/C2	125	100	50	19	40	6	15.5	21.5	80	10	100	80	120	M6	3	4	165	155	145	295	M6X16
FM 90S-..	B14/C1	140	100	56	24	50	8	20	28	90	10	130	110	160	M8	3.5	4	180	175	155	320	M8X19
FM 90S-..	B14/C2	140	100	56	24	50	8	20	28	90	10	115	95	140	M8	3	4	180	175	155	320	M8X19
FM 90L-..	B14/C1	140	125	56	24	50	8	20	28	90	10	130	110	160	M8	3.5	4	180	175	155	345	M8X19
FM 90L-..	B14/C2	140	125	56	24	50	8	20	28	90	10	115	95	140	M8	3	4	180	175	155	345	M8X19
FM 100L-..	B14/C1	160	140	63	28	60	8	24	32	100	12	165	130	200	M10	3.5	4	205	196	180	385	M10X22
FM 100L-..	B14/C2	160	140	63	28	60	8	24	32	100	12	130	110	160	M8	3.5	4	205	196	180	385	M10X22
FM 112M-..	B14/C1	190	140	70	28	60	8	24	32	112	12	165	130	200	M10	3.5	4	230	220	190	400	M10X22
FM 112M-..	B14/C2	190	140	70	28	60	8	24	32	112	12	130	110	160	M8	3.5	4	230	220	190	400	M10X22
FM 132S-..	B14/C1	216	140	89	38	80	10	33	43	132	12	215	180	250	M12	4	4	270	259	210	470	M12X28
FM 132S-..	B14/C2	216	140	89	38	80	10	33	43	132	12	165	130	200	M10	3.5	4	270	259	210	470	M12X28
FM 132M-..	B14/C1	216	178	89	38	80	10	33	43	132	12	215	180	250	M12	4	4	270	259	210	510	M12X28
FM 132M-..	B14/C2	216	178	89	38	80	10	33	43	132	12	165	130	200	M10	3.5	4	270	259	210	510	M12X28

FMS Series - Single Phase Motors

- Duty: S1
- Rated voltage: 230 V
- Frequency: 50 Hz
- Ambient temperature: from -15°C to + 40°C
- Mounting height: up to 1000 m above sea level
- Insulation class: F



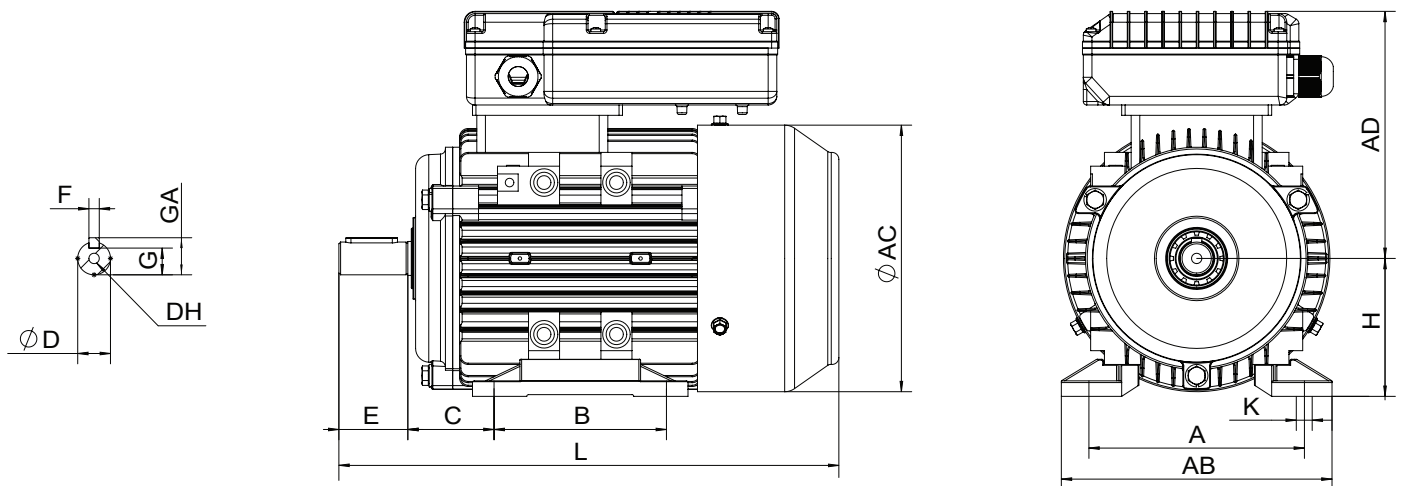
Item	Description
1.	Terminal Box Cover
2.	Terminal Box Base
3.	Capacitor Start
4.	Capacitor Run
5.	Gland
6.	Rubber Gasket
7.	Terminal Board
8.	Terminal Box
9.	Fan Cover
10.	Fan
11.	Shaft Seal
12.	Tie Rod
13.	NDE Shield
14.	Spring Washer
15.	Bearing
16.	Housing
17.	Stator
18.	Rotor
19.	Centrifugal Switch
20.	Key
21.	DE Shield
22.	Flange End Shield
23.	Feet

Note: Frame 100 - 112 a centrifugal switch is between to rotor and NDE bearing

FMS Series - Single Phase Motors

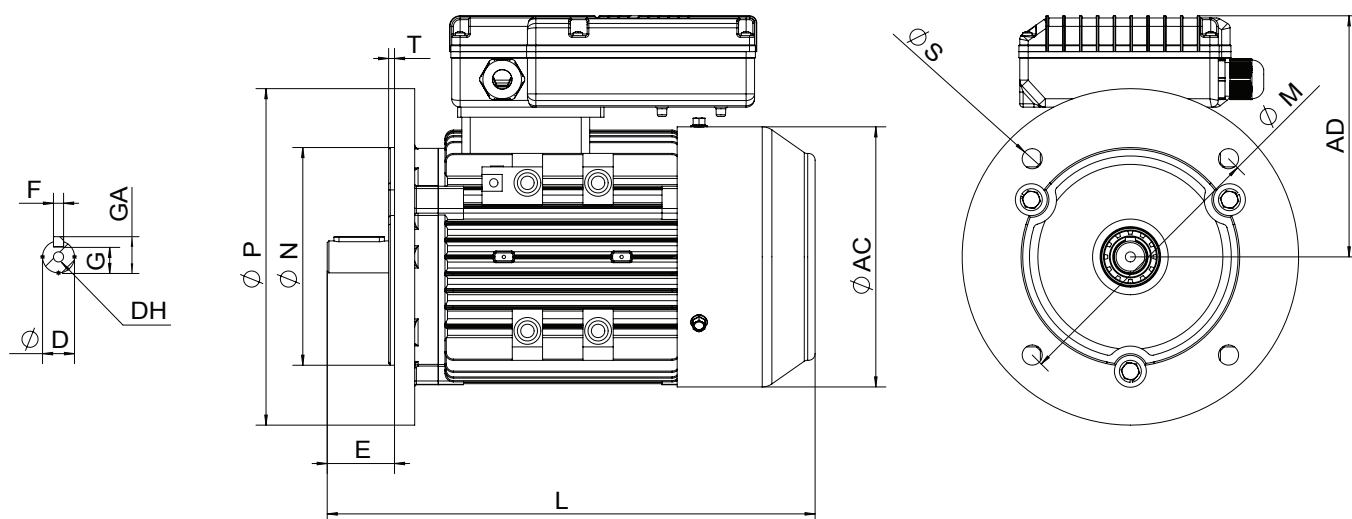
Item	Type	Rated Output		Rated Speed	Rated Torque	Efficiency	Power factor	Full Load Current	Locked Rotor Torque	Breakdown Torque	Locked Rotor Current	Moment of inertia	Capacitor Start	Capacitor Run	Sound Pressure Level	Weight
		P_N		n_N	T_N	η_N [%] at % of full load	$\cos \varphi_N$	I_N at rated voltage	T_L/T_N	T_B/T_N	I_L/I_N	J	C_A 250 V	C_B 450 V	L_{pA}	m
		[kW]	[HP]	[min ⁻¹]	[Nm]	100 %	[-]	[A]230V	[-]	[-]	[-]	[kgm ² x 10 ⁻³]	[μF]	[μF]	[dB]	[kg]
<i>2p=2 n_s=3000 rpm</i>																
1	FMS71-2A	0.37	0.5	2800	1.26	67	0.92	2.70	1.8	1.6	5.5	0.83	50	8	72	10
2	FMS71-2B	0.55	0.75	2800	1.88	70	0.92	3.90	1.8	1.6	5.5	1.0	100	15	72	11
3	FMS80-2A	0.75	1	2800	2.56	73	0.95	4.90	1.8	1.6	5.5	1.3	100	25	75	14
4	FMS80-2B	1.1	1.5	2800	3.75	75	0.95	7.00	1.8	1.6	5.5	1.6	100	30	75	15
5	FMS90S-2	1.5	2	2800	5.12	76	0.95	9.40	1.8	1.6	5.5	3.2	200	40	78	22
6	FMS90L-2	2.2	3	2800	7.50	77	0.95	13.70	1.7	1.6	5.5	6.1	300	50	78	24
7	FMS100L-2	3	4	2800	10.23	79	0.95	18.20	1.7	1.6	6.0	12.1	350	55	83	24
8	FMS112M-2	4	5.5	2800	13.64	80	0.95	22.10	1.7	1.6	6.0	14.1	350	60	83	46
<i>2p=4 n_s=1500 rpm</i>																
9	FMS71-4A	0.25	0.33	1400	1.71	62	0.92	2.00	1.7	1.6	5.0	0.9	75	15	67	9
10	FMS71-4B	0.37	0.5	1400	2.52	65	0.92	2.80	1.7	1.6	5.0	1.4	75	15	67	10
11	FMS80-4A	0.55	0.75	1400	3.75	69	0.92	3.95	1.7	1.6	5.0	2.0	100	15	70	13
12	FMS80-4B	0.75	1	1400	5.12	71	0.95	5.05	1.7	1.6	5.0	2.3	100	25	70	14
13	FMS90S-4	1.1	1.5	1400	7.50	72	0.95	7.30	1.7	1.6	5.0	2.6	150	30	73	21
14	FMS90L-4	1.5	2	1400	10.23	74	0.95	9.70	1.7	1.6	5.0	3.0	200	40	73	23
15	FMS100L-4A	2.2	3	1400	15.01	76	0.95	13.90	1.7	1.6	5.0	6.0	300	50	78	32
16	FMS100L-4B	3	4	1400	20.46	78	0.95	18.40	1.7	1.6	5.0	7.4	350	55	78	33
17	FMS112M-4	4	5.5	1400	27.29	79	0.95	22.40	1.7	1.6	5.5	10.5	350	60	83	44

FMS Series B3 dimension



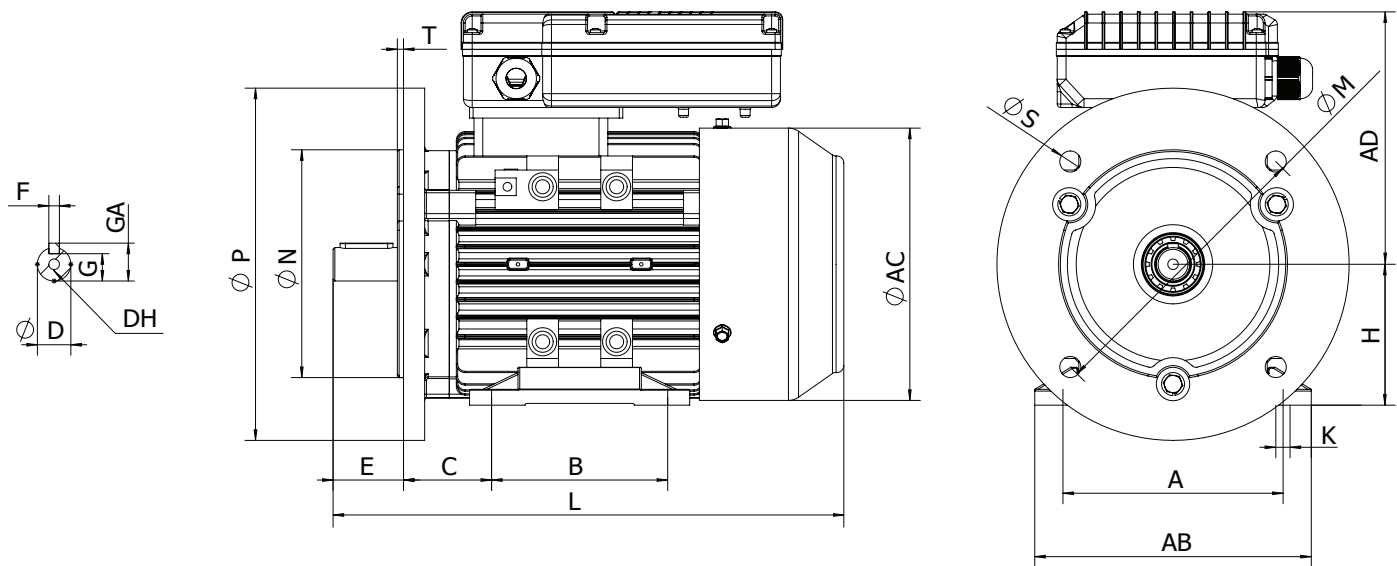
Frame size	A	B	C	D	E	F	G	GA	H	K	AB	AC	AD	L	DH
FMS 63-..	100	80	40	11	23	4	8.5	12.5	63	7	135	123	119	217	M4X12
FMS 71-..	112	90	45	14	30	5	11	16	71	7	150	137	131	250	M5X12
FMS 80-..	125	100	50	19	40	6	15.5	21.5	80	10	165	155	147	290	M6X16
FMS 90S-..	140	125	56	24	50	8	20	28	90	10	172	175	156	315	M8X19
FMS 90L-..	140	125	56	24	50	8	20	28	90	10	172	175	156	340	M8X19
FMS 100L-..	160	140	63	28	60	8	24	32	100	12	200	196	160	425	M10X22
FMS 112M-..	190	140	70	28	60	8	24	32	112	12	230	220	173	450	M10X22

FMS Series B5 dimension



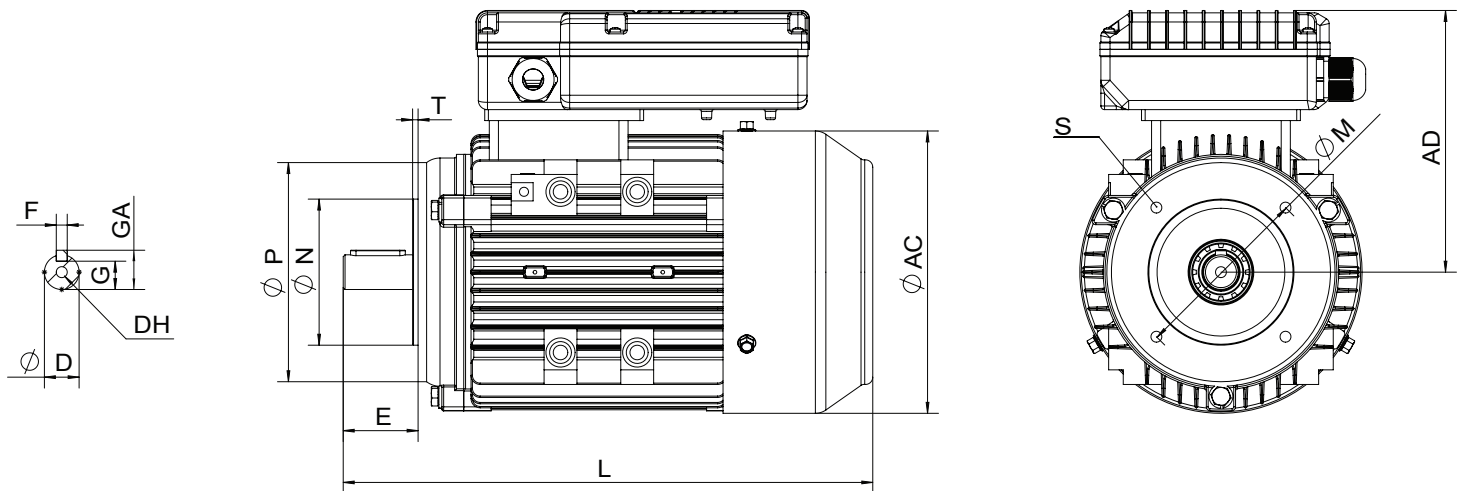
Frame size	D	E	F	G	GA	M	N	P	S	T	Flange Holes	AC	AD	L	DH
FMS 63-..	11	23	4	8.5	12.5	115	95	140	10	3	4	123	119	217	M4X12
FMS 71-..	14	30	5	11	16	130	110	160	10	3.5	4	137	131	250	M5X12
FMS 80-..	19	40	6	15.5	21.5	165	130	200	12	3.5	4	155	147	290	M6X16
FMS 90S-..	24	50	8	20	28	165	130	200	12	3.5	4	175	156	315	M8X19
FMS 90L-..	24	50	8	20	28	165	130	200	12	3.5	4	175	156	340	M8X19
FMS 100L-..	28	60	8	24	32	215	180	250	15	4	4	196	160	425	M10X22
FMS 112M-..	28	60	8	24	32	215	180	250	15	4	4	220	173	450	M10X22

FMS Series B35 dimension



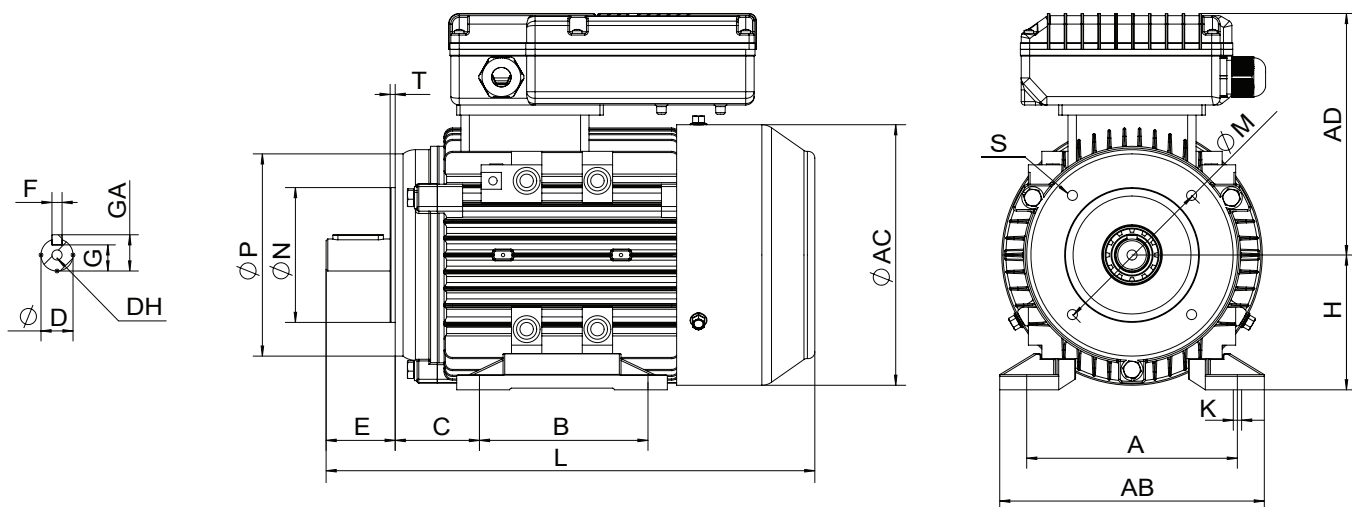
	A	B	C	D	E	F	G	GA	H	K	M	N	P	S	T	Flange Holes	AB	AC	AD	L	DH
FMS 63-..	100	80	40	11	23	4	8.5	12.5	63	7	115	95	140	10	3	4	135	123	119	217	M4X12
FMS 71-..	112	90	45	14	30	5	11	16	71	7	130	110	160	10	3.5	4	150	137	131	250	M5X12
FMS 80-..	125	100	50	19	40	6	15.5	21.5	80	10	165	130	200	12	3.5	4	165	155	147	290	M6X16
FMS 90S-..	140	125	56	24	50	8	20	28	90	10	165	130	200	12	3.5	4	172	175	156	315	M8X19
FMS 90L-..	140	125	56	24	50	8	20	28	90	10	165	130	200	12	3.5	4	172	175	156	340	M8X19
FMS 100L-..	160	140	63	28	60	8	24	32	100	12	215	180	250	15	4	4	200	196	160	425	M10X22
FMS 112M-..	190	140	70	28	60	8	24	32	112	12	215	180	250	15	4	4	230	220	173	450	M10X22

FMS Series B14 dimension



	Flange	D	E	F	G	GA	M	N	P	S	T	Flange Holes	AC	AD	L	DH
FMS 63-..	B14/C1	11	23	4	8.5	12.5	100	80	120	M6	2.5	4	123	119	217	M4X12
FMS 63-..	B14/C2	11	23	4	8.5	12.5	75	60	90	M5	2.5	4	123	119	217	M4X12
FMS 71-..	B14/C1	14	30	5	11	16	115	95	140	M8	3	4	137	131	250	M5X12
FMS 71-..	B14/C2	14	30	5	11	16	85	70	105	M6	2.5	4	137	131	250	M5X12
FMS 80-..	B14/C1	19	40	6	15.5	21.5	130	110	160	M8	3.5	4	155	147	290	M6X16
FMS 80-..	B14/C2	19	40	6	15.5	21.5	100	80	120	M6	3	4	155	147	290	M6X16
FMS 90S-..	B14/C1	24	50	8	20	28	130	110	160	M8	3.5	4	175	156	315	M8X19
FMS 90S-..	B14/C2	24	50	8	20	28	115	95	140	M8	3	4	175	156	315	M8X19
FMS 90L-..	B14/C1	24	50	8	20	28	130	110	160	M8	3.5	4	175	156	340	M8X19
FMS 90L-..	B14/C2	24	50	8	20	28	115	95	140	M8	3	4	175	156	340	M8X19
FMS 100L-..	B14/C1	28	60	8	24	32	165	130	200	M10	3.5	4	196	160	425	M10X22
FMS 100L-..	B14/C2	28	60	8	24	32	130	110	160	M8	3.5	4	196	160	425	M10X22
FMS 112M-..	B14/C1	28	60	8	24	32	165	130	200	M10	3.5	4	220	173	450	M10X22
FMS 112M-..	B14/C2	28	60	8	24	32	130	110	160	M8	3.5	4	220	173	450	M10X22

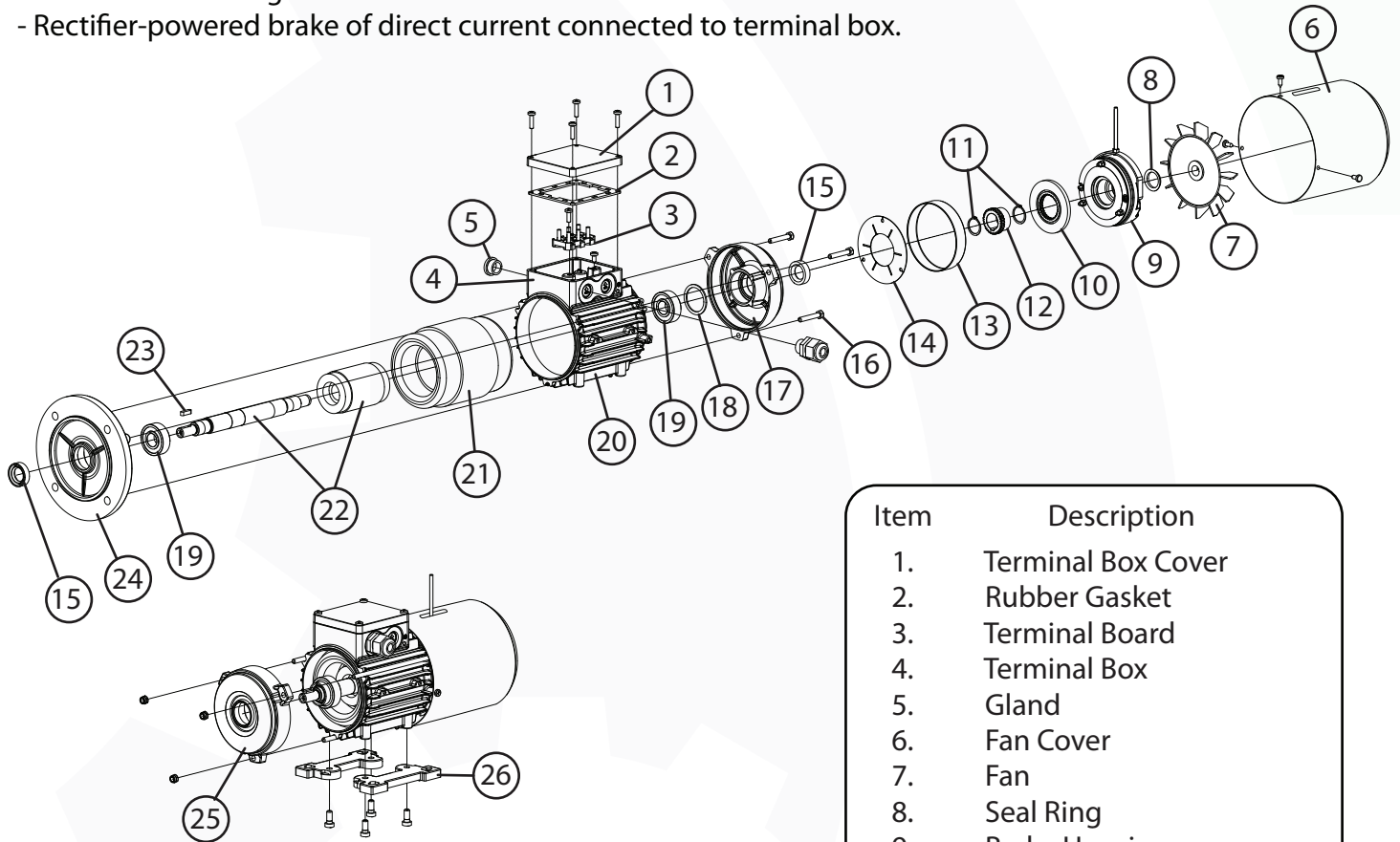
FMS Series B34 dimension



Frame size	Flange	A	B	C	D	E	F	G	GA	H	K	M	N	P	S	T	Flange Holes	AB	AC	AD	L	DH
FMS 63-..	B14/C1	100	80	40	11	23	4	8.5	12.5	63	7	100	80	120	M6	2.5	4	135	123	119	217	M4X12
FMS 63-..	B14/C2	100	80	40	11	23	4	8.5	12.5	63	7	75	60	90	M5	2.5	4	135	123	119	217	M4X12
FMS 71-..	B14/C1	112	90	45	14	30	5	11	16	71	7	115	95	140	M8	3	4	150	137	131	250	M5X12
FMS 71-..	B14/C2	112	90	45	14	30	5	11	16	71	7	85	70	105	M6	2.5	4	150	137	131	250	M5X12
FMS 80-..	B14/C1	125	100	50	19	40	6	15.5	21.5	80	10	130	110	160	M8	3.5	4	165	155	147	290	M6X16
FMS 80-..	B14/C2	125	100	50	19	40	6	15.5	21.5	80	10	100	80	120	M6	3	4	165	155	147	290	M6X16
FMS 90S-..	B14/C1	140	100	56	24	50	8	20	28	90	10	130	110	160	M8	3.5	4	172	175	156	315	M8X19
FMS 90S-..	B14/C2	140	100	56	24	50	8	20	28	90	10	115	95	140	M8	3	4	172	175	156	315	M8X19
FMS 90L-..	B14/C1	140	125	56	24	50	8	20	28	90	10	130	110	160	M8	3.5	4	172	175	156	340	M8X19
FMS 90L-..	B14/C2	140	125	56	24	50	8	20	28	90	10	115	95	140	M8	3	4	172	175	156	340	M8X19
FMS 100L-..	B14/C1	160	140	63	28	60	8	24	32	100	12	165	130	200	M10	3.5	4	200	196	160	425	M10X22
FMS 100L-..	B14/C2	160	140	63	28	60	8	24	32	100	12	130	110	160	M8	3.5	4	200	196	160	425	M10X22
FMS 112M-..	B14/C1	190	140	70	28	60	8	24	32	112	12	165	130	200	M10	3.5	4	230	220	173	450	M10X22
FMS 112M-..	B14/C2	190	140	70	28	60	8	24	32	112	12	130	110	160	M8	3.5	4	230	220	173	450	M10X22

FMB Series - Three Phase Motors with DC Brake

- Duty: S1
- Rated voltage: 230V, 380V, 400V, 690V (Δ/Y)
- Frequency: 50/60 Hz
- Ambient temperature: from -15°C to $+40^{\circ}\text{C}$
- Mounting height: up to 1000 m above sea level
- Insulation class: F
- Degree of protection IP 55
- Terminal box with glands and terminal board with 6 terminals.
- Rectifier-powered brake of direct current connected to terminal box.

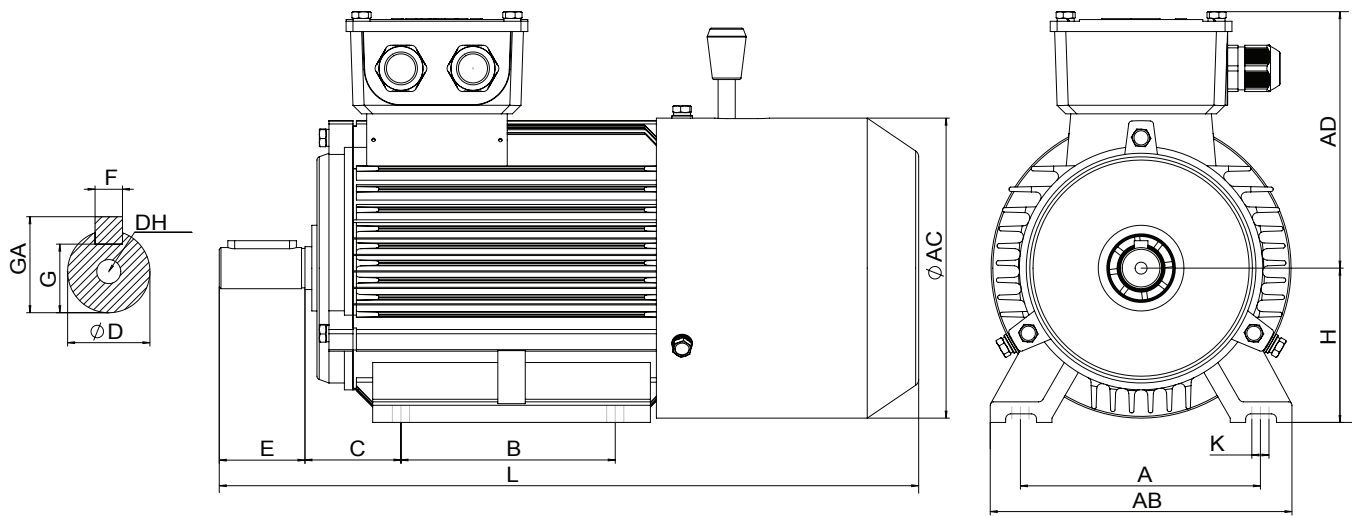


Item	Description
1.	Terminal Box Cover
2.	Rubber Gasket
3.	Terminal Board
4.	Terminal Box
5.	Gland
6.	Fan Cover
7.	Fan
8.	Seal Ring
9.	Brake Housing
10.	Brake Disc
11.	Stop Ring
12.	Brake Hub
13.	Cap Kit
14.	Stainless Steel Disc
15.	Shaft Seal
16.	Tie Rod
17.	NDE Shield
18.	Spring Washer
19.	Bearing
20.	Housing
21.	Stator
22.	Rotor
23.	Key
24.	Flange End Shield
25.	DE Shield
26.	Feet

FMB Series - Electromagnetic brake motors

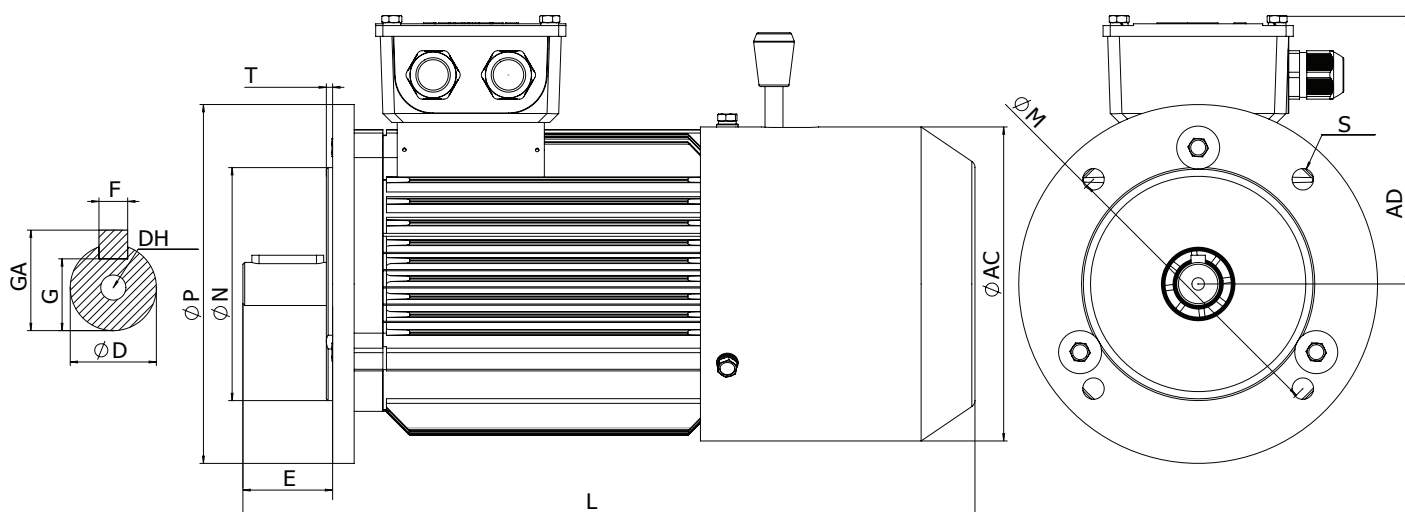
Item	Type	Rated Output		Rated Speed	Rated Torque	Efficiency	Power factor	Full Load Current			Locked Rotor Torque	Breakdown Torque	Locked Rotor Current	Moment of inertia	Braking Torque	Weight
		P _N		n _N	T _N	η _N [%] at % of full load	cos φ _N	I _N at rated voltage			T _L /T _N	T _B /T _N	I _L /I _N	J	-	m
		[kW]	[HP]	[min ⁻¹]	[Nm]			100%	[-]	[A]230V	[A]380V	[A]400V	[-]	[-]	[-]	[kgm ² x 10 ⁻³]
2p=2 n_s=3000 rpm																
1	FMB63-2A	0.18	0.25	2720	0.63	65.0	0.80	0.85	0.53	0.49	2.3	2.3	5.5	0.31	1.96	5.2
2	FMB63-2B	0.25	0.33	2720	0.88	68.0	0.81	1.09	0.69	0.63	2.3	2.3	5.5	0.6	1.96	5.4
3	FMB71-2A	0.37	0.5	2755	1.28	69.0	0.81	1.59	1.01	0.92	2.2	2.3	6.1	0.75	3.92	7.8
4	FMB71-2B	0.55	0.75	2790	1.88	74.0	0.82	2.18	1.38	1.26	2.3	2.3	6.1	0.9	3.92	8.1
5	FMB80-2A	0.75	1	2845	2.52	75.0	0.83	2.77	1.77	1.60	2.3	2.2	6.1	1.2	7.36	12.7
6	FMB80-2B	1.1	1.5	2835	3.71	76.2	0.84	3.88	2.61	2.24	2.3	2.2	6.9	1.4	7.36	13.7
7	FMB90S-2	1.5	2	2850	5.03	78.5	0.84	5.46	3.46	3.15	2.3	2.2	7.0	2.9	14.7	16.5
8	FMB90L-2	2.2	3	2855	7.36	81.0	0.85	7.62	4.85	4.40	2.3	2.2	7.0	5.5	14.7	17.5
9	FMB100L-2	3	4	2860	10.02	82.6	0.87	9.99	6.34	5.77	2.3	2.2	7.5	10.9	29.4	28.5
10	FMB112M-2	4	5.5	2880	13.26	84.2	0.88	-	8.20	7.46	2.3	2.2	7.5	12.6	39.2	34.2
11	FMB132S-2A	5.5	7.5	2900	18.11	86.2	0.88	-	11.10	10.53	2.2	2.2	7.0	10.9	73.60	66.5
12	FMB132S-2B	7.5	10	2900	24.70	86.2	0.88	-	14.90	14.10	2.2	2.2	7.0	12.6	73.60	69.5
13	FMB160M-2A	11	15	2930	35.85	87.2	0.88	-	21.20	20.20	2.2	2.2	7.0	37.7	147.20	123
14	FMB160M-2B	15	20	2930	48.89	88.2	0.88	-	28.60	27.20	2.2	2.2	7.0	49.9	147.20	130
15	FMB160L-2	18.5	25	2930	60.30	89.0	0.89	-	34.70	33.00	2.2	2.2	7.0	55	147.20	149
16	FMB180M-2	22	30	2940	71.46	89.0	0.89	-	41.00	39.00	2.2	2.2	7.0	75	215.80	192
17	FMB200L-2A	30	40	2950	97.12	90.0	0.89	-	55.40	52.60	2.2	2.2	7.0	124	294.30	266
18	FMB200L-2B	37	50	2950	119.78	90.5	0.89	-	67.90	64.50	2.2	2.2	7.0	139	294.30	278
19	FMB225M-2	45	60	2970	144.70	91.5	0.89	-	82.10	78.00	2.2	2.2	7.0	233	441.50	345
2p=4 n_s=1500 rpm																
20	FMB63-4A	0.12	0.16	1310	0.87	57.0	0.72	0.73	0.44	0.42	2.2	2.1	4.4	0.5	1.96	5.2
21	FMB63-4B	0.18	0.25	1310	1.31	60.0	0.73	1.02	0.62	0.59	2.2	2.1	4.4	0.6	1.96	5.4
22	FMB71-4A	0.25	0.33	1340	1.78	65.0	0.74	1.30	0.79	0.75	2.2	2.1	5.2	0.8	3.92	7.8
23	FMB71-4B	0.37	0.5	1340	2.64	67.0	0.75	1.91	1.12	1.10	2.2	2.1	5.2	1.3	3.92	8.1
24	FMB80-4A	0.55	0.75	1390	3.78	71.0	0.75	2.49	1.52	1.44	2.3	2.4	5.2	1.8	7.36	12.7
25	FMB80-4B	0.75	1	1390	5.15	73.0	0.76	3.20	1.95	1.85	2.3	2.3	6.0	2.1	7.36	13.7
26	FMB90S-4	1.1	1.5	1390	7.56	76.2	0.77	4.68	2.85	2.70	2.3	2.3	6.0	2.3	14.7	15.5
27	FMB90L-4	1.5	2	1400	10.23	78.5	0.78	6.11	3.72	3.53	2.3	2.3	6.0	2.7	14.7	17.5
28	FMB100L-4A	2.2	3	1420	14.80	81.0	0.81	8.37	5.09	4.83	2.3	2.3	7.0	5.4	29.4	27.5
29	FMB100L-4B	3	4	1420	20.18	82.6	0.82	11.08	6.78	6.40	2.3	2.3	7.0	6.7	29.4	29.5
30	FMB112M-4	4	5.5	1435	26.62	84.2	0.82	-	8.80	8.36	2.3	2.3	7.0	9.5	39.2	35.2
31	FMB132S-4	5.5	7.5	1440	36.48	85.5	0.84	-	11.70	11.20	2.2	2.2	7.0	21.4	73.6	72.5
32	FMB132M-4	7.5	10	1440	49.74	87.0	0.85	-	15.60	14.80	2.2	2.2	7.0	29.6	73.6	81
33	FMB160M-4	11	15	1460	71.95	88.0	0.84	-	22.50	21.40	2.2	2.2	7.0	74.7	147.2	126
34	FMB160L-4	15	20	1460	98.12	88.5	0.85	-	30.00	28.50	2.2	2.2	7.0	91.8	147.2	145
35	FMB180M-4	18.5	25	1470	120.19	91.0	0.86	-	36.30	34.50	2.2	2.2	7.0	139	215.8	187
36	FMB180L-4	22	30	1470	142.93	91.5	0.86	-	43.20	40.80	2.2	2.2	7.0	158	215.8	205
37	FMB200L-4	30	40	1470	194.90	92.5	0.87	-	57.60	55.10	2.2	2.2	7.0	262	294.3	276
38	FMB225S-4	37	50	1480	238.75	91.8	0.87	-	70.20	66.70	2.2	2.2	7.0	406	414.5	343
39	FMB225M-4	45	60	1480	290.37	92.3	0.88	-	84.90	80.70	2.2	2.2	7.0	469	441.5	368
2p=6 n_s=1000 rpm																
40	FMB71-6A	0.18	0.25	870	1.98	56	0.66	1.21	0.74	0.7	2	1.9	4	1.1	3.92	7.8
41	FMB71-6B	0.25	0.33	870	2.74	59	0.68	1.56	0.95	0.9	2	1.9	4	1.4	3.92	8.1
42	FMB80-6A	0.37	0.5	880	4.02	62	0.7	2.03	1.23	1.17	2	1.9	4.7	1.6	7.36	12.7
43	FMB80-6B	0.55	0.75	880	5.97	65	0.72	2.77	1.7	1.6	2.1	1.9	4.7	1.9	7.36	13.7
44	FMB90S-6	0.75	1	905	7.91	69	0.72	3.78	2.29	2.18	2.1	2	5.3	2.9	14.7	16.5
45	FMB90L-6	1.1	1.5	905	11.61	72	0.73	5.23	3.18	3.02	2.1	2	5.5	3.5	14.7	17.5
46	FMB100L-6	1.5	2	920	15.57	76	0.76	6.58	4	3.8	2.1	2	5.5	6.9	29.4	27.5
47	FMB112M-6	2.2	3	935	22.47	79	0.76	9.21	5.6	5.32	2.1	2	6.5	14	39.2	34.2
48	FMB132S-6	3	4	960	29.84	83.0	0.76	12.18	7.40	7.03	2.0	2.0	6.5	28.6	73.6	68
49	FMB132M-6A	4	5.5	960	39.79	84.0	0.77	-	9.75	9.26	2.0	2.0	6.5	35.7	73.6	75
50	FMB132M-6B	5.5	7.5	960	54.71	85.3	0.78	-	12.90	12.30	2.0	2.0	6.5	44.9	73.6	85.5
51	FMB160M-6	7.5	10	970	73.84	86.0	0.78	-	17.20	16.30	2.0	2.0	6.5	81	147.2	122
52	FMB160L-6	11	15	970	108.30	86.0	0.78	-	24.50	23.30	2.0	2.0	6.5	116	147.2	138
53	FMB180L-6	15	20	970	147.68	89.5	0.81	-	31.60	30.00	1.8	2.0	6.5	207	215.8	194
54	FMB200L-6A	18.5	25	970	182.14	89.8	0.83	-	38.60	36.60	1.8	2.0	6.5	315	294.2	284
55	FMB200L-6B	22	30	970	216.60	90.2	0.83	-	44.70	42.50	1.8	2.0	6.5	360	294.3	295
56	FMB225M-6	30	40	980	292.35	90.2	0.85	-	59.30	56.30	1.8	2.0	6.5	547	441.5	342

FMB Series B3 dimension



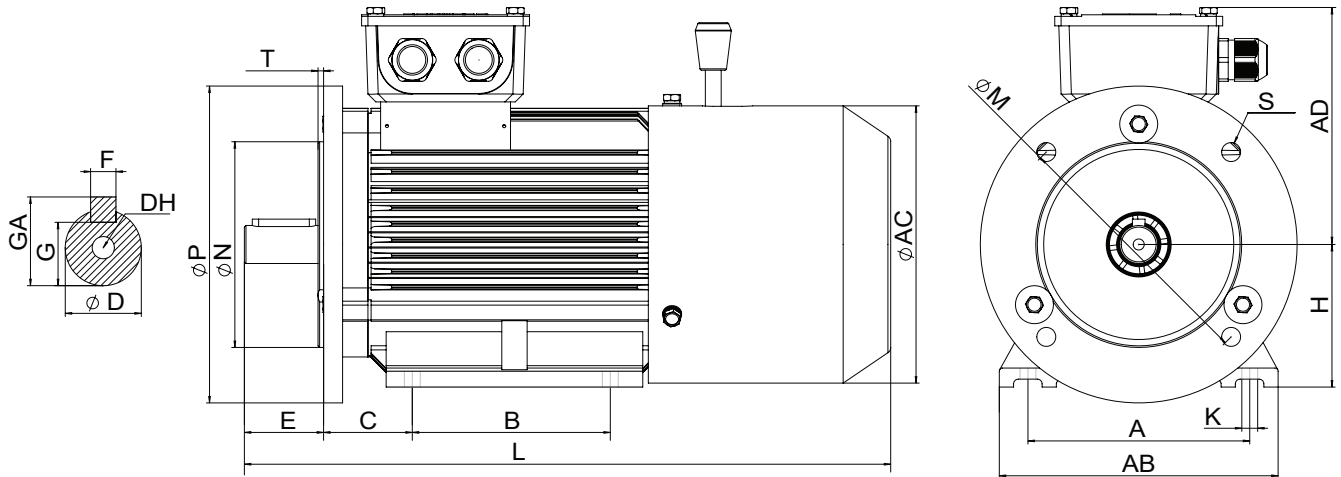
Frame size	A	B	C	D	E	F	G	GA	H	K	AB	AC	AD	L	DH
FMB 63-..	100	80	40	11	23	4	8.5	12.5	63	7	137	123	111	271	M4X12
FMB 71-..	112	90	45	14	30	5	11	16	71	7	133	137	127	305	M5X12
FMB 80-..	125	100	50	19	40	6	15.5	21.5	80	10	165	155	145	344	M6X16
FMB 90S-..	140	100	56	24	50	8	20	28	90	10	180	175	155	386	M8X19
FMB 90L-..	140	125	56	24	50	8	20	28	90	10	180	175	155	408	M8X19
FMB 100L-..	160	140	63	28	60	8	24	32	100	12	205	196	180	444	M10X22
FMB 112M-..	190	140	70	28	60	8	24	32	112	12	230	220	190	470	M10X22
FMB 132S-..	216	140	89	38	80	10	33	43	132	12	270	259	210	584	M12X28
FMB 132M-..	216	178	89	38	80	10	33	43	132	12	270	259	210	584	M12X28
FMB 160M-..	254	210	108	42	110	12	37	45	160	15	320	315	255	710	M16X36
FMB 160L-..	254	254	108	42	110	12	37	45	160	15	320	315	255	755	M16X36
FMB 180M-..	279	241	121	48	110	14	42.5	51.5	180	15	355	355	280	803	M16X36
FMB 180L-..	279	279	121	48	110	14	42.5	51.5	180	15	355	355	280	839	M16X36
FMB 200L-..	318	305	133	55	110	16	49	59	200	19	395	397	305	876	M20X42
FMB 225S-..	356	286	149	60	140	18	53	68	225	19	435	445	335	942	M20X42
FMB 225M-2	356	311	149	55	110	16	49	59	225	19	435	445	335	937	M20X42
FMB 225M-..	356	311	149	60	140	18	53	68	225	19	435	445	335	967	M20X42

FMB Series B5 dimension



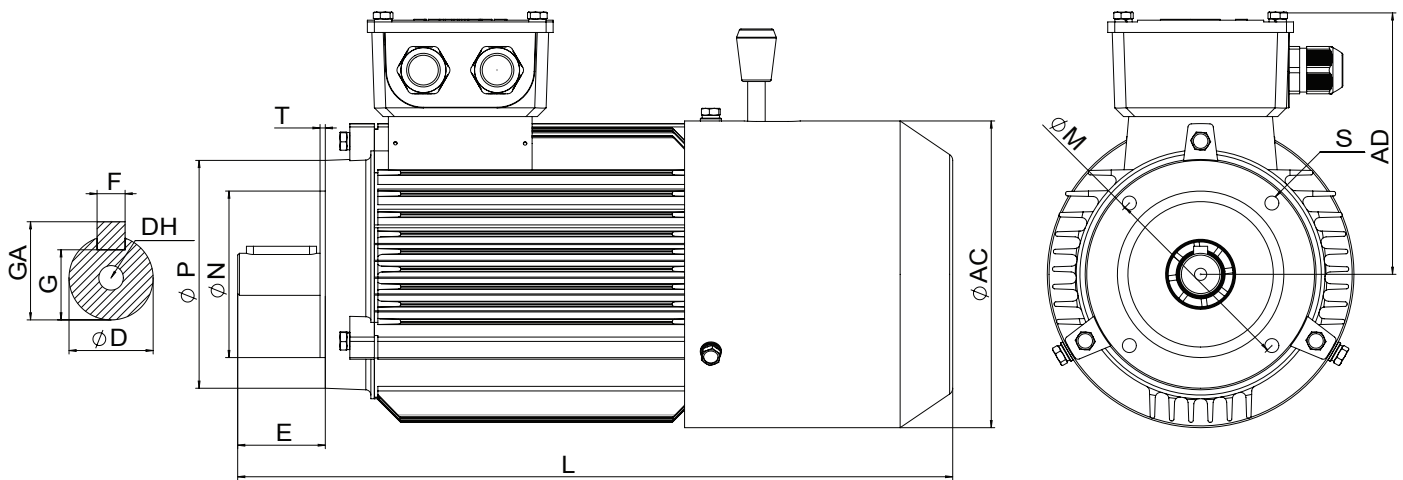
Frame size	D	E	F	G	GA	M	N	P	S	T	Flange Holes	AC	AD	L	DH
FMB 63-..	11	23	4	8.5	12.5	115	95	140	10	3	4	123	111	271	M4X12
FMB 71-..	14	30	5	11	16	130	110	160	10	3.5	4	137	127	305	M5X12
FMB 80-..	19	40	6	15.5	21.5	165	130	200	12	3.5	4	155	145	344	M6X16
FMB 90S-..	24	50	8	20	28	165	130	200	12	3.5	4	175	155	386	M8X19
FMB 90L-..	24	50	8	20	28	165	130	200	12	3.5	4	175	155	408	M8X19
FMB 100L-..	28	60	8	24	32	215	180	250	15	4	4	196	180	444	M10X22
FMB 112M-..	28	60	8	24	32	215	180	250	15	4	4	220	190	470	M10X22
FMB 132S-..	38	80	10	33	43	265	230	300	15	4	4	259	210	584	M12X28
FMB 132M-..	38	80	10	33	43	265	230	300	15	4	4	259	210	584	M12X28
FMB 160M-..	42	110	12	37	45	300	250	350	19	5	4	315	255	710	M16X36
FMB 160L-..	42	110	12	37	45	300	250	350	19	5	4	315	255	755	M16X36
FMB 180M-..	48	110	14	42.5	51.5	300	250	350	19	5	4	355	280	803	M16X36
FMB 180L-..	48	110	14	42.5	51.5	300	250	350	19	5	4	355	280	839	M16X36
FMB 200L-..	55	110	16	49	59	350	300	400	19	5	4	397	305	876	M20X42
FMB 225S-..	60	140	18	53	68	400	350	450	19	5	8	445	335	942	M20X42
FMB 225M-2	55	110	16	49	59	400	350	450	19	5	8	445	335	937	M20X42
FMB 225M-..	60	140	18	53	68	400	350	450	19	5	8	445	335	967	M20X42

FMB Series B35 dimension



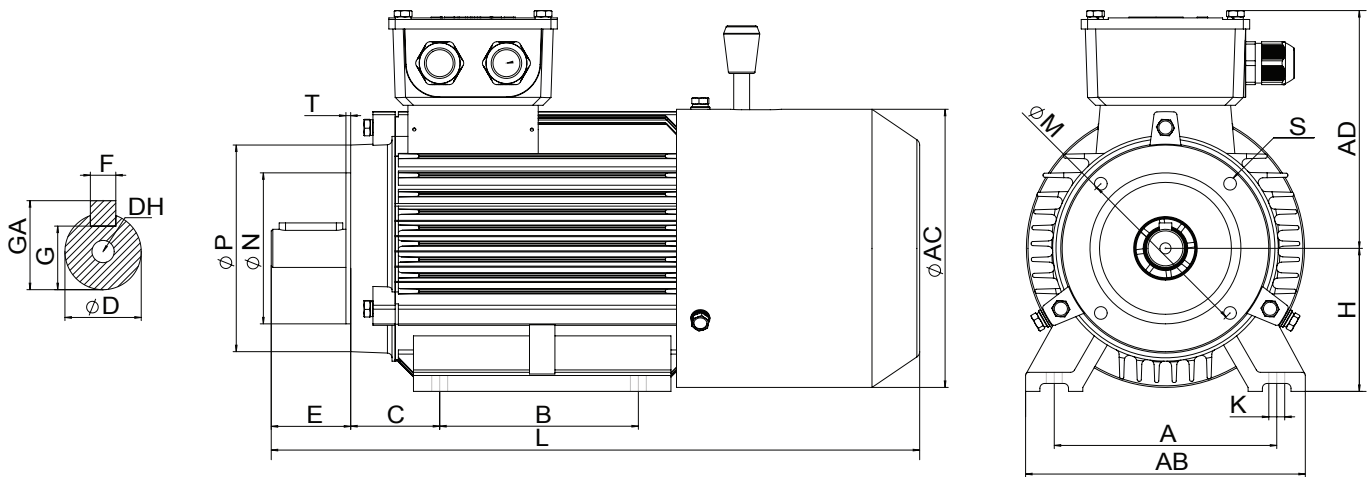
Frame size	A	B	C	D	E	F	G	GA	H	K	M	N	P	S	T	Flange Holes	AB	AC	AD	L	DH
FMB 63-..	100	80	40	11	23	4	8.5	12.5	63	7	115	95	140	10	3	4	137	123	111	271	M4X12
FMB 71-..	112	90	45	14	30	5	11	16	71	7	130	110	160	10	3.5	4	133	137	127	305	M5X12
FMB 80-..	125	100	50	19	40	6	15.5	21.5	80	10	165	130	200	12	3.5	4	165	155	145	344	M6X16
FMB 90S-..	140	100	56	24	50	8	20	28	90	10	165	130	200	12	3.5	4	180	175	155	386	M8X19
FMB 90L-..	140	125	56	24	50	8	20	28	90	10	165	130	200	12	3.5	4	180	175	155	408	M8X19
FMB 100L-..	160	140	63	28	60	8	24	32	100	12	215	180	250	15	4	4	205	196	180	444	M10X22
FMB 112M-..	190	140	70	28	60	8	24	32	112	12	215	180	250	15	4	4	230	220	190	470	M10X22
FMB 132S-..	216	140	89	38	80	10	33	43	132	12	265	230	300	15	4	4	270	259	210	584	M12X28
FMB 132M-..	216	178	89	38	80	10	33	43	132	12	265	230	300	15	4	4	270	259	210	584	M12X28
FMB 160M-..	254	210	108	42	110	12	37	45	160	15	300	250	350	19	5	4	320	315	255	710	M16X36
FMB 160L-..	254	254	108	42	110	12	37	45	160	15	300	250	350	19	5	4	320	315	255	755	M16X36
FMB 180M-..	279	241	121	48	110	14	42.5	51.5	180	15	300	250	350	19	5	4	355	355	280	803	M16X36
FMB 180L-..	279	279	121	48	110	14	42.5	51.5	180	15	300	250	350	19	5	4	355	355	280	839	M16X36
FMB 200L-..	318	305	133	55	110	16	49	59	200	19	350	300	400	19	5	4	395	397	305	876	M20X42
FMB 225S-..	356	286	149	60	140	18	53	68	225	19	400	350	450	19	5	8	435	445	335	942	M20X42
FMB 225M-2	356	311	149	55	110	16	49	59	225	19	400	350	450	19	5	8	435	445	335	937	M20X42
FMB 225M-..	356	311	149	60	140	18	53	68	225	19	400	350	450	19	5	8	435	445	335	967	M20X42

FMB Series B14 dimension



Frame size	Flange	D	E	F	G	GA	M	N	P	S	T	Flange Holes	AC	AD	L	DH
FMB 63-..	B14/C1	11	23	4	8.5	12.5	100	80	120	M6	2.5	4	123	111	271	M4X12
FMB 63-..	B14/C2	11	23	4	8.5	12.5	75	60	90	M5	2.5	4	123	111	271	M4X12
FMB 71-..	B14/C1	14	30	5	11	16	115	95	140	M8	3	4	137	127	305	M5X12
FMB 71-..	B14/C2	14	30	5	11	16	85	70	105	M6	2.5	4	137	127	305	M5X12
FMB 80-..	B14/C1	19	40	6	15.5	21.5	130	110	160	M8	3.5	4	155	136	344	M6X16
FMB 80-..	B14/C2	19	40	6	15.5	21.5	100	80	120	M6	3	4	155	145	344	M6X16
FMB 90S-..	B14/C1	24	50	8	20	28	130	110	160	M8	3.5	4	175	155	386	M8X19
FMB 90S-..	B14/C2	24	50	8	20	28	115	95	140	M8	3	4	175	155	386	M8X19
FMB 90L-..	B14/C1	24	50	8	20	28	130	110	160	M8	3.5	4	175	155	408	M8X19
FMB 90L-..	B14/C2	24	50	8	20	28	115	95	140	M8	3	4	175	155	408	M8X19
FMB 100L-..	B14/C1	28	60	8	24	32	165	130	200	M10	3.5	4	196	180	444	M10X22
FMB 100L-..	B14/C2	28	60	8	24	32	130	110	160	M8	3.5	4	196	180	444	M10X22
FMB 112M-..	B14/C1	28	60	8	24	32	165	130	200	M10	3.5	4	220	190	470	M10X22
FMB 112M-..	B14/C2	28	60	8	24	32	130	110	160	M8	3.5	4	220	190	470	M10X22
FMB 132S-..	B14/C1	38	80	10	33	43	215	180	250	M12	4	4	259	210	584	M12X28
FMB 132S-..	B14/C2	38	80	10	33	43	165	130	200	M10	3.5	4	259	210	584	M12X28
FMB 132M-..	B14/C1	38	80	10	33	43	215	180	250	M12	4	4	259	210	584	M12X28
FMB 132M-..	B14/C2	38	80	10	33	43	165	130	200	M10	3.5	4	259	210	584	M12X28

FMB Series B34 dimension



Frame size	Flange	A	B	C	D	E	F	G	GA	H	K	M	N	P	S	T	Flange Holes	AB	AC	AD	L	DH
FMB 63-..	B14/C1	100	80	40	11	23	4	8.5	12.5	63	7	100	80	120	M6	2.5	4	137	123	111	271	M4X12
FMB 63-..	B14/C2	100	80	40	11	23	4	8.5	12.5	63	7	75	60	90	M5	2.5	4	137	123	111	271	M4X12
FMB 71-..	B14/C1	112	90	45	14	30	5	11	16	71	7	115	95	140	M8	3	4	133	137	127	305	M5X12
FMB 71-..	B14/C2	112	90	45	14	30	5	11	16	71	7	85	70	105	M6	2.5	4	133	137	127	305	M5X12
FMB 80-..	B14/C1	125	100	50	19	40	6	15.5	21.5	80	10	130	110	160	M8	3.5	4	165	155	145	344	M6X16
FMB 80-..	B14/C2	125	100	50	19	40	6	15.5	21.5	80	10	100	80	120	M6	3	4	165	155	145	344	M6X16
FMB 90S-..	B14/C1	140	100	56	24	50	8	20	28	90	10	130	110	160	M8	3.5	4	180	175	155	386	M8X19
FMB 90S-..	B14/C2	140	100	56	24	50	8	20	28	90	10	115	95	140	M8	3	4	180	175	155	386	M8X19
FMB 90L-..	B14/C1	140	125	56	24	50	8	20	28	90	10	130	110	160	M8	3.5	4	180	175	155	408	M8X19
FMB 90L-..	B14/C2	140	125	56	24	50	8	20	28	90	10	115	95	140	M8	3	4	180	175	155	408	M8X19
FMB 100L-..	B14/C1	160	140	63	28	60	8	24	32	100	12	165	130	200	M10	3.5	4	205	196	180	444	M10X22
FMB 100L-..	B14/C2	160	140	63	28	60	8	24	32	100	12	130	110	160	M8	3.5	4	205	196	180	444	M10X22
FMB 112M-..	B14/C1	190	140	70	28	60	8	24	32	112	12	165	130	200	M10	3.5	4	230	220	190	470	M10X22
FMB 112M-..	B14/C2	190	140	70	28	60	8	24	32	112	12	130	110	160	M8	3.5	4	230	220	190	470	M10X22
FMB 132S-..	B14/C1	216	140	89	38	80	10	33	43	132	12	215	180	250	M12	4	4	270	259	210	584	M12X28
FMB 132S-..	B14/C2	216	140	89	38	80	10	33	43	132	12	165	130	200	M10	3.5	4	270	259	210	584	M12X28
FMB 132M-..	B14/C1	216	178	89	38	80	10	33	43	132	12	215	180	250	M12	4	4	270	259	210	584	M12X28
FMB 132M-..	B14/C2	216	178	89	38	80	10	33	43	132	12	165	130	200	M10	3.5	4	270	259	210	584	M12X28

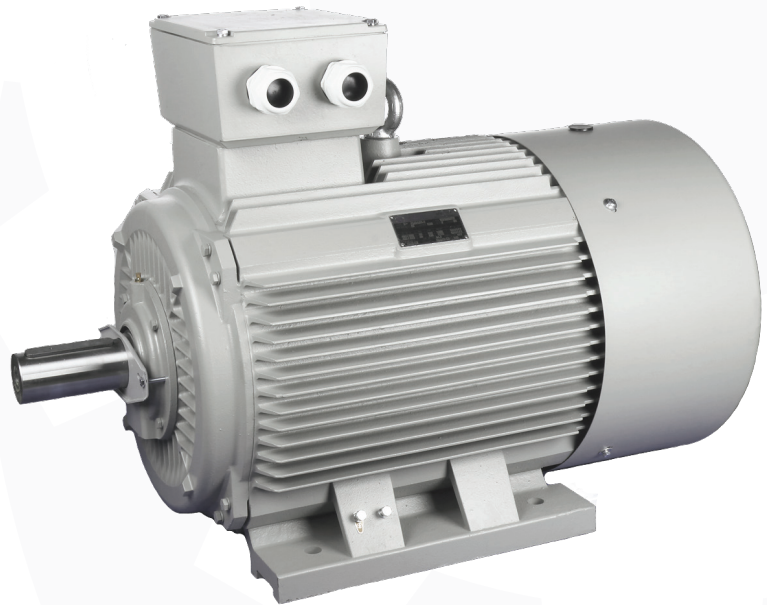


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