

SRV WORM GEAR REDUCER SERIES

We Only Focus On The
Reducer Field



Note: The picture is the new version of the reducer

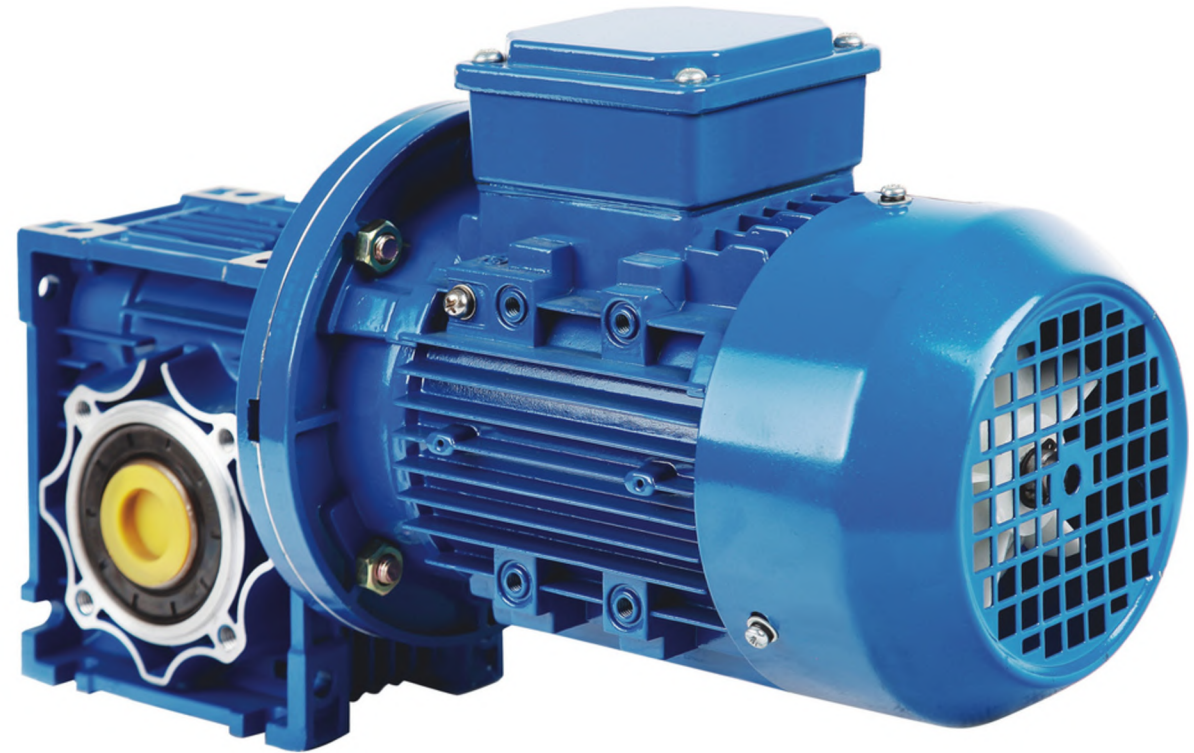


SRV WORM GEAR REDUCER SERIES



We Only Focus On The Reducer Field

Helical - Bevel - Worm - Parallel -
Planetary - Heavy Industrial Gearbox



Smart Factory

01 realize lean production

trigger automatic collection, data reduce the entry process and provide production managers at all levels with the real time production data they need.

02 realize production transparency

collect real-time production information, know full visibility of production progress, realize full transparency of production management.

03 improve production execution

adopt advanced manufacturing IoT technology, manage standardly and make workshop production transparent, improve the core competitiveness of manufacturing companies.

04 multiplied improve production efficiency

intelligently analyse and track of production information, continuously explore equipment and operational potential, improve production efficiency, continuously improve management objectives.

05 continuously improve quality

collect real-time production information, record production data, control production process, overall supervise production processes, focus on production quality, post-event analyse continuous product quality improvement.

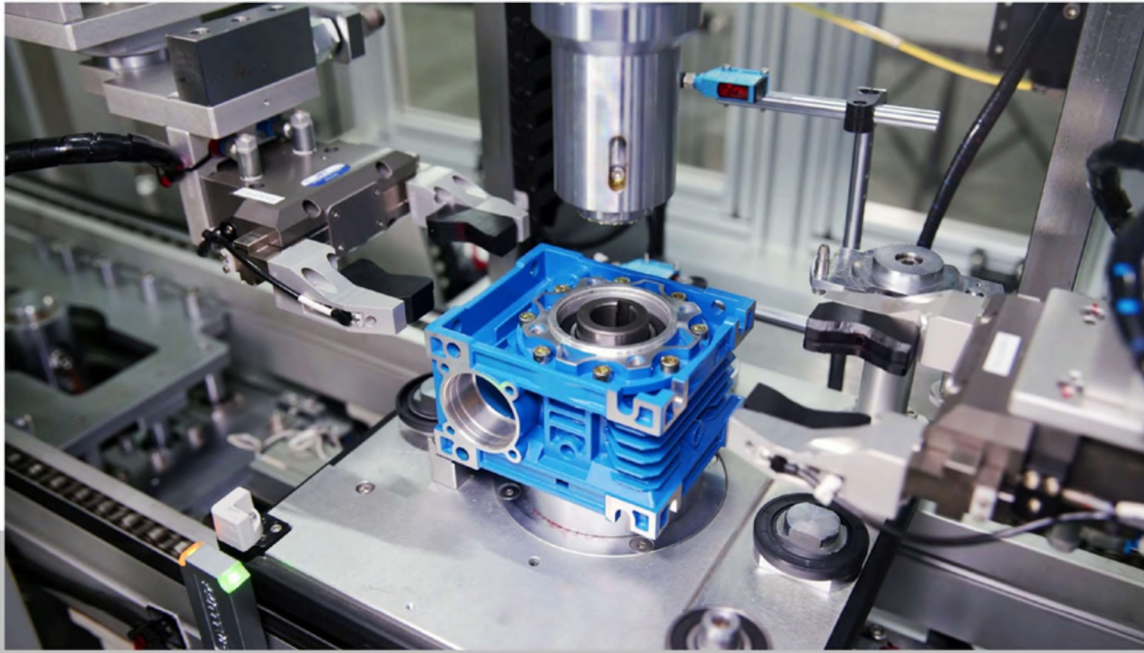
06 realize two-way quality traceability

quality control methods such as prevention, monitoring and analysis during production, so as to improve product quality traceability.

07 benefit customers

fast delivery, less maintain, high reliability.





Smart Factory

The first domestic SRV worm gearbox smart factory was officially put into use in 2021. SRV gearbox annual output is 1,300,000 sets.





Compact Mechanical Structure, Light Size,
Small Size And High Efficiency.



Good Heat Exchange Performance
And Fast Heat Dissipation.

Easy To Install
Flexible And Quick
Superior Performance
Easy To Maintain And Overhaul

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STRUCTURE FEATURES

SRV series worm gear speed reducer is a new-generation of product developed by our company on the basis of perfecting WJ series products with a compromise of advanced technology both at home and abroad, its main features areas follows:

- 1.Made of high-quality aluminum alloy, light in weight and non-rusting.
- 2.Large in output torque.
- 3.Smooth in running and low in noise, can work long time in dreadful conditions.
- 4.High in radiating efficiency.
- 5.Good-looking in appearance, durable in service life and small in volume.
- 6.Suitable for omnibearing installation.

MAIN MATERIALS

- 1.Housing:die-cast aluminum alloy(frame size:025 to 090); cast iron(frame size:110 to 150).
- 2.Worm gear: 20Cr,carbonize & quencher heat treatment make the hardness of gear's surface up to 56~62 HRC, Retain carburization layer's thickness between 0.3 and 0.5mm after precise grinding.
- 3.Worm wheel: wearable stannum bronze alloy.

SURFACE PAINTING

Aluminum alloy housing:

- 1.Shot blasting and special antiseptic treatment on the aluminum alloy surface.
- 2.After phosphating, paint with RAL5010 blue or RAL9010 silver.

Cast iron housing:

First paint with red antirust paint, then paint with RAL5010 blue or RAL9010 silver



SRV/SRVL WORM GEARED MOTORS AND WORM GEAR UNITS

SRV 063-40-E FA1 AS1 71B5 B3 - 7124/0.37-4 / 1

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

NO	Comments
1	Model code 1).SRV: Hole input with flange 2).SRVL: Shaft input without flange
2	Central distance of worm gear units(spec)
3	Speed ratio of reducer (i=7.5;10;15;20;25;30;40;50;60;80;100)
4	1).No mark means single extension worm shaft 2).E: Double extension worm shaft
5	1).No mark means without output flange 2).FA,FB,FC,FD,FE(1/2):output Flange and position
6	1).NO mark means hole output 2).AS(1/2):Single output shaft and position 3).AB: Double output shaft
7	Normalized form of input flange(without motor)
8	Installation position code
9	1).No mark means without motor 2).Model motors(poles of power)
10	Position diagram for motor terminal box default position 1 not to write out is ok

SRV-SRV/SRVL-SRV COMBINATION WORM GEAR UNITS

SRV 050/110-900-E FA1 AS1 71B5 B3

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

NO	Comments
1	Model code 1).SRV: Hole input with flange 2).SRVL: Shaft input without flange
2	Central distance of worm gear units(spec)
3	Speed ratio of reducer
4	1).No mark means single extension worm shaft 2).E: Double extension worm shaft
5	1).No mark means without output flange 2).FA,FB,FC,FD,FE(1/2):output Flange and position
6	1).NO mark means hole output 2).AS(1/2):Single output shaft and position 3).AB: Double output shaft
7	Normalized form of input flange
8	Installation position code

RELEVANT PARAMETER

1). Power

$$P_1 = \frac{P_2}{\eta_d} \text{ [KW]}$$

$$P_{1n} \geq P_1 \cdot f_s \text{ [KW]}$$

- P₁ Input power
- P₂ Output power
- P_{1n} Selected motor power

The parameter can be found in the gearbox rating charts and represents the KW that can be safely transmitted to the gearbox, based on input speed n₁ and service factor f_s=1.

- f_s Service factor
- η_d Dynamic efficiency

Values of η_d are calculated for gearboxes after a sufficiently long running-in period. After the running-in period the surface temperature in operation reduces and finally becomes stable. It may be worth highlighting that values of rated torque M_{2n} given in the catalogue and take the dynamic efficiency η_d into consideration.

2). Rotation speed

- n₁ Gear units input speed
- n₂ Gear units output speed

3). Transmission ratio

$$i = \frac{n_1}{n_2}$$

4). Torque

$$M_2 = \frac{9550 \cdot P_1 \cdot \eta_d}{n_2} \text{ [Nm]}$$

$$M_{2n} \geq M_2 \cdot f_s \text{ [Nm]}$$

- M₂ Output torque
- M_{2n} Selected output torque

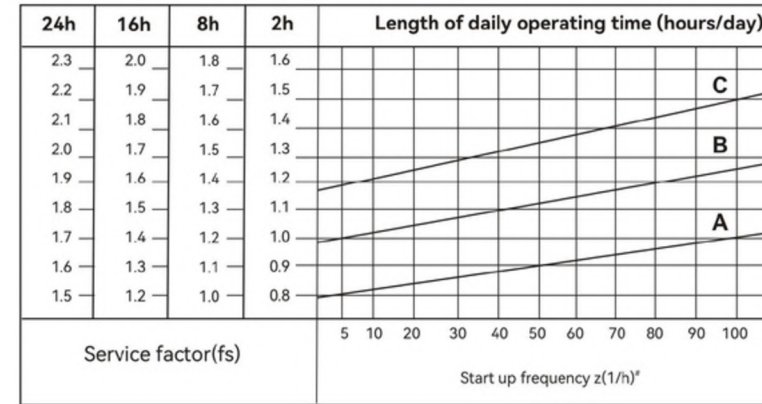
The torque that can be transmitted continuously through the output shaft, with the gear unit operated under a service factor f_s=1. Rating is speed sensitive.

- P₁ Input power
- η_d Dynamic efficiency
- f_s Service factor

5). Service factor f_s

The effect of the driven machine on the gear unit is taken into account to a sufficient level of accuracy using the service factor f_s. The service factor is determined according to the daily operating time and the starting frequency Z. Three load classifications are considered depending on the mass acceleration factor. You can read off the service factor applicable to your application in following figure. The service factor selected using this diagram must be less than or equal to the service factor as given in the performance parameter table.

RELEVANT PARAMETER



starting frequency z: The cycles include all starting and braking procedures as well as change overs from low to high speed.

type of load:

- A. Uniform, permitted mass acceleration factor f_a≤0.3
- B. Moderate shock load, permitted mass acceleration factor f_a≤3
- C. Heavy shock load, permitted mass acceleration factor f_a≤10

Load classifications:

- A. Screw feeders for light materials, fans, assembly lines, conveyor belts for light materials, small mixers, lifts, cleaning machines, fillers, control machines.
- B. Winding devices, woodworking machine feeders, good lifts, balancers, threading machines, medium mixers, conveyor belts for heavy materials, winches, sliding doors, fertilizer scrapers, packing machines, concrete mixers, crane mechanisms, milling cutters, folding machines, gear pumps.
- C. Mixers for heavy materials, shears, presses, centrifuges, rotating supports, winches and lifts for heavy materials, grinding lathes, stone mills, bucket elevators, drilling machines, hammer mills, cam presses, folding machines, turntables, tumbling barrels, vibrators, shredders.

The mass acceleration factor is calculated as follow:

$$F_a = \frac{J_c}{J_m}$$

f_a Mass acceleration factor

J_c All external mass moments of inertia(kgm²)

J_m Mass moment of inertia on the motor end(kgm²)

If mass acceleration factors f_a>10, please call our Technical Service.

RELEVANT PARAMETER

Service factor f_s should be adjusted as followings:

- 1).ambient temperature is 30~40°C: $f_s \times (1.1\sim 1.2)$
- 2).ambient temperature is 40~50°C: $f_s \times (1.3\sim 1.4)$
- 3).ambient temperature is 50~60°C: $f_s \times (1.5\sim 1.6)$
- 4).ambient temperature >60°C, please call our Technical Service.

To keep the service-life of gear units, the use factor f_s selected from the catalogue must be equal or slightly higher than the calculated use factor f_s .

6). The admissible radial load on the shaft

The allowed radial load force on the shaft is calculated with the following formula:

$$F_{re} = \frac{M \cdot 2000 \cdot f_z}{d_o}$$

$F_{re}(N)$ Resulting radial load

$M(Nm)$ Torque on the shaft

$d_o(mm)$ Diameter of the transmission element mounted on the shaft

$Fr1, Fr2(N)$ The admitted radial load force(see relative tables)

$Fa1, Fa2(N)$ axial load

f_z Transmission element factor

When the resulting radial load is not applied on the centre line of the shaft, it is necessary to calculate the effective load with the following formula:

$$F_{re} = s \frac{Fr(1,2) \cdot a}{(b+x)} \leq Fr(1,2)_{max}$$

a =worm casing constant

b =worm casing constant

x =distance of load from shaft shoulder(mm)

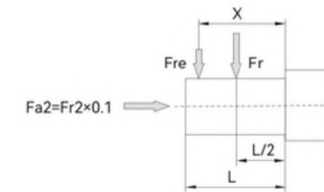
The values of a, b, x are given in the following tables

Transmission element factor F_z

Transmission element	Transmission element factor F_z	Comments
Gears	1.00	≥ 17 teeth
	1.15	< 17 teeth
	1.00	≥ 20 teeth
Chain sprockets	1.25	< 20 teeth
	1.40	< 13 teeth
Narrow V-belt pulleys	1.75	Influence of the tensile force
Flat belt pulleys	2.50	Influence of the tensile force
Toothed belt pulleys	2.50	Influence of the tensile force

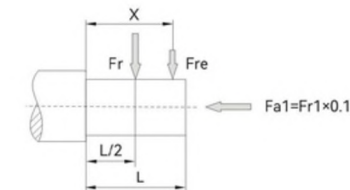
RELEVANT PARAMETER

Output shafts radial loads



SRV	025	030	040	050	063	075	090	110	130	150
a	50	65	84	101	120	131	162	176	188	205
b	38	50	64	76	95	101	122	136	148	164
Fr2 max	1350	1830	3490	4840	6270	7380	8180	12000	13500	18000

Input shafts radial loads



SRVL	030	040	050	063	075	090	110	130	150
a	86	106	129	159	192	227	266	314	350
b	76	94.5	114	139	167	202	236	274	310
Fr1 max	210	350	490	700	980	1270	1700	2100	2800

SELECTION EXAMPLE

1). Worm geared motors

Example: The input power of driver machine is 0.5KW, $n_1=1400r/min$, heavy load, continuous running for 24 hours, the ambient temperature is $+32^\circ C$, then choose the service factor, $f_s=1.9 \times 1.12=2.128$, $n_2=93.3r/min$, B3 mounted SO:

$$i = \frac{n_1}{n_2} = \frac{1400}{93.3} = 15$$

$$P_{is} \geq P_1 \cdot f_s = 0.5 \times 2.128 = 1.064 [kw]$$

Choose type:

SRV075-15-B3-1.1-4

Count output torque:

$$M_2 = \frac{9550 \cdot P_1 \cdot \eta_d}{n_2} = \frac{9550 \cdot 0.5 \cdot 0.84}{93.3} = 43 [Nm]$$

$$M_{is} = 95 \geq M_2 \cdot f_s = 43 \times 2.128 = 91.5 [Nm]$$

2). Worm gear units

Example: Required torque 300Nm on driven machine, continuous running for 8 hours, uniform Load, the ambient temperature is $30^\circ C$, then choose the service factor $f_s=1 \times 1.1=1.1$, $n_1=900r/min$, $N_2=22.5r/min$.

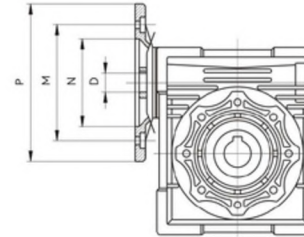
$$M_{is} \geq M_1 \cdot f_s = 300 \times 1.1 = 330 [Nm]$$

$$i = \frac{n_1}{n_2} = \frac{900}{22.5} = 40$$

Choose type:

SRVL090-40

THE CONFIGURATION OF SRV SPEC WITH MOTORS COUPLING FLANGE AND RATIO COMBINATIONS



*If you want special key, please call our Technical Service

	Motor flange				The hole diameter of input shaft													
	PAM IEC	P	M	N	Transmission ratio													
					7.5	10	15	20	25	30	40	50	60	80	100			
SRV025	56B14	80	65	50	9	9	9	9	9	9	9	9	9	9	9	9	9	9
	63B5	140	115	95														
SRV030	63B14	90	75	60	11	11	11	11	11	11	11	11	11					
	56B5	120	100	80	9	9	9	9	9	9	9	9	9	9	9	9	9	9
SRV040	56B14	80	65	50														
	71B5	160	130	110														
	71B14	105	85	70	14	14	14	14	14	14	14	14						
	63B5	140	115	95														
	63B14	90	75	60	11	11	11	11	11	11	11	11	11	11	11	11	11	11
	56B5	120	100	80											9	9	9	9
SRV050	80B5	200	165	130	19	19	19	19	19	19								
	80B14	120	100	80														
	71B5	160	130	110	14	14	14	14	14	14	14	14	14	14	14	14	14	14
	71B14	105	85	70														
SRV063	63B5	140	115	95											11	11	11	11
	90B5	200	165	130	24	24	24	24	24	24	24							
	90B14	140	115	95														
	80B5	200	165	130	19	19	19	19	19	19	19	19	19	19	19	19	19	19
SRV075	80B14	120	100	80														
	71B5	160	130	110											14	14	14	14
	71B14	105	85	70														
	100/112B5	250	215	180	28	28	28											
	100/112B14	160	130	110														
	90B5	200	165	130	24	24	24	24	24	24	24							
SRV090	90B14	140	115	95														
	80B5	200	165	130														
	80B14	120	100	80				19	19	19	19	19	19	19	19	19	19	19
	100/112B5	250	215	180	28	28	28	28	28	28								
SRV110	100/112B14	160	130	110														
	90B5	200	165	130	24	24	24	24	24	24	24	24	24	24	24	24	24	24
	80B5	200	165	130														
	80B14	120	100	80											19	19	19	19
SRV130	132B5	300	265	230	38*	38*	38*	38*										
	100/112B5	250	215	180	28	28	28	28	28	28	28	28	28	28	28	28	28	28
	90B5	200	165	130					24	24	24	24	24	24	24	24	24	24
SRV150	132B5	300	265	230	38*	38*	38*	38*	38*	38*	38*	38*	38*	38*	38*	38*	38*	38*
	100/112B5	250	215	180					28	28	28	28	28	28	28	28	28	28
	90B5	200	165	130														
	160B5	350	300	250	42	42	42	42										

SRV-SRV/SRVL-SRV ASSIGNMENT TABLE OF COMBINATION RATIO

n1=1400r/min		SRV025/030			SRV025/040			SRV030/040			SRV030/050			SRV030/063		
i	n2	P1 (Kw)	i025	i030	P1 (Kw)	i025	i040	P1 (Kw)	i030	i040	P1 (Kw)	i030	i050	P1 (Kw)	i030	i060
100	14	0.09	10	10	—	—	—	—	—	—	—	—	—	—	—	—
150	9.3	0.06	10	15	—	—	—	—	—	—	—	—	—	—	—	—
200	7	0.06	10	20	—	—	—	—	—	—	—	—	—	—	—	—
250	5.6	0.06	10	25	—	—	—	—	—	—	—	—	—	—	—	—
300	4.7	0.06	10	30	0.06	10	30	0.09	10	30	0.18	10	30	0.22	10	30
400	3.5	0.06	20	20	0.06	10	40	0.06	10	40	0.12	10	40	0.18	10	40
500	2.8	0.06	20	25	0.06	20	25	0.06	20	25	0.09	10	50	0.18	10	50
600	2.3	0.06	20	30	0.06	20	30	0.06	20	30	0.09	20	30	0.12	20	30
750	1.9	0.06	30	25	0.06	25	30	0.06	25	30	0.09	25	30	0.12	25	30
900	1.6	0.06	30	30	0.06	30	30	0.06	30	30	0.06	30	30	0.09	30	30
1200	1.2	0.06	40	30	0.06	40	30	0.06	40	30	0.06	40	30	0.09	40	30
1500	0.93	0.06	50	30	0.06	50	30	0.06	50	30	0.06	50	30	0.06	50	30
1800	0.78	0.06	60	30	0.06	60	30	0.06	60	30	0.06	60	30	0.06	60	30
2400	0.58	0.06	60	40	0.06	60	40	0.06	60	40	0.06	60	40	0.06	60	40
3000	0.47	0.06	60	50	0.06	60	50	—	—	—	0.06	60	50	0.06	60	50
3200	0.44	—	—	—	—	—	—	0.06	80	40	—	—	—	—	—	—
4000	0.35	—	—	—	0.06	50	80	0.06	80	50	0.06	80	50	0.06	80	50
4800	0.29	—	—	—	—	—	—	—	—	—	0.06	80	60	—	—	—
5000	0.28	—	—	—	0.06	50	100	0.06	50	100	—	—	—	0.06	100	50

n1=1400r/min		SRV040/075			SRV040/090			SRV050/110			SRV063/130			SRV063/150		
i	n2	P1 (Kw)	i040	i075	P1 (Kw)	i040	i090	P1 (Kw)	i050	i110	P1 (Kw)	i063	i130	P1 (Kw)	i063	i150
300	4.7	0.37	10	30	0.37	10	30	0.75	10	30	1.5	10	30	1.5	10	30
400	3.5	0.25	10	40	0.37	10	40	0.75	10	40	1.1	10	40	1.5	10	40
500	2.8	0.25	10	50	0.37	10	50	0.55	20	25	0.75	10	50	1.5	10	50
600	2.3	0.18	20	30	0.37	20	30	0.55	20	30	0.75	15	40	1.1	15	40
750	1.9	0.18	25	30	0.25	25	30	0.55	25	30	0.75	25	30	1.1	25	30
900	1.6	0.12	30	30	0.25	30	30	0.37	30	30	0.55	30	30	0.75	30	30
1200	1.2	0.12	40	30	0.18	40	30	0.25	40	30	0.55	40	30	0.75	40	30
1500	0.93	0.09	50	30	0.18	50	30	0.25	50	30	0.37	50	30	0.55	50	30
1800	0.78	0.09	60	30	0.12	60	30	0.25	60	30	0.25	60	30	0.55	60	30
2400	0.58	0.06	60	40	0.12	60	40	0.18	60	40	0.25	60	40	0.55	60	40
3000	0.47	0.06	60	50	0.09	60	50	0.12	60	50	0.18	60	50	0.37	60	50
4000	0.35	0.06	80	50	0.06	80	50	0.12	80	50	0.12	80	50	0.25	80	50
5000	0.28	0.06	100	50	0.06	100	50	0.12	100	50	0.12	100	50	0.18	100	50

You can choose 025,030,040,050,063,075,090,110,130,150 as combination unit to combine according to the fact your special needs.

EFFICIENCY & IRREVERSIBILITY CHARACTER

Efficiency is an important parameter of reducer, Efficiency depends on the following parameters:

- 1) Helix angle of gearing,
- 2) Driving speed,
- 3) Running-in of gearing,
- 4) The performance of oil, oil seal and bearing.

The mesh data table on page 15 shows dynamic efficiency(n1=1400) and static efficiency values. Remember that these values are only achieved after the unit has been run in. Torque values Mn2 indicated in the catalogue are calculated by considering the steady-state performance of the gearboxes. The actual values mentioned above may have deflection.

Dynamic irreversibility

Dynamic irreversibility is achieved when the output shaft stops instantly and drive is no longer transmitted through the worm shaft. This condition requires a dynamic efficiency of $\eta_d < 0.4$ (see table on page 15).

Static irreversibility

Static irreversibility is achieved when the gear reducer at a standstill, the application of a load to the output shaft can't drive the worm shaft. This condition requires a static efficiency of $\eta_s < 0.5$ (see table on page 15).

η_d	>0.6	0.5~0.6	0.4~0.5	<0.4
DYNAMIC IRREVERSIBILITY	dynamic reversibility	Low dynamic reversibility	Good dynamic irreversibility	Dynamic irreversibility

η_s	>0.55	0.5~0.55	<0.5
STATIC IRREVERSIBILITY	Static reversibility	Low Static reversibility	Static irreversibility

⚠ The table shows approximate irreversibility classes. Vibrations and shocks can affect a gear reducer's irreversibility. As it is virtually impossible to provide and guarantee total non reversing, we recommend the use of an external brake with sufficient capability to prevent vibrations in starting, where these circumstances are required. For the irreversibility conditions of a combined geared unit one must consider that the efficiency of the group is given by the product of the efficiencies of each single reducer, i.e.: $\eta_{tot} = \eta_1 \times \eta_2$.

MESH DATA

	i	5	7.5	10	15	20	25	30	40	50	60	80	100
SRV025	z1		4	3	2	2		1	1	1	1		
	mx		1.3	1.3	1.3	0.995		1.3	0.995	0.8	0.67		
	γ		25° 18'	19° 31'	13° 18'	11° 2'		6° 44'	5° 34'	4° 34'	3° 54'		
	η ^d		0.85	0.83	0.79	0.76		0.68	0.64	0.59	0.56		
	η ^s		0.71	0.67	0.60	0.56		0.45	0.41	0.36	0.33		
SRV030	z1	6	4	3	2	2	1	1	1	1	1	1	1
	mx	1.44	1.44	1.44	1.44	1.1	1.7	1.44	1.1	0.89	0.74	0.56	0.45
	γ	27° 13'	18° 55'	14° 25'	9° 44'	7° 49'	5° 33'	4° 54'	3° 55'	3° 17'	2° 43'	2° 07'	1° 43'
	η ^d	0.87	0.84	0.81	0.76	0.72	0.66	0.64	0.59	0.54	0.50	0.44	0.41
	η ^s	0.72	0.66	0.62	0.54	0.49	0.41	0.38	0.33	0.29	0.26	0.21	0.2
SRV040	z1	6	4	3	2	2	2	1	1	1	1	1	1
	mx	2.05	2.05	2.05	2.05	1.56	1.27	2.05	1.56	1.27	1.06	0.8	0.65
	γ	33° 37'	23° 54'	18° 23'	12° 30'	10° 03'	8° 45'	6° 19'	5° 04'	4° 24'	3° 42'	2° 52'	2° 28'
	η ^d	0.89	0.86	0.84	0.80	0.77	0.74	0.69	0.65	0.61	0.57	0.51	0.47
	η ^s	0.74	0.70	0.66	0.59	0.54	0.51	0.44	0.39	0.36	0.32	0.27	0.24
SRV050	z1	6	4	3	2	2	2	1	1	1	1	1	1
	mx	2.56	2.56	2.56	2.56	1.95	1.58	2.56	1.95	1.58	1.32	1	0.8
	γ	33° 30'	23° 49'	18° 19'	12° 27'	10° 03'	8° 33'	6° 18'	5° 04'	4° 18'	3° 38'	2° 52'	2° 17'
	η ^d	0.89	0.87	0.85	0.81	0.78	0.75	0.71	0.67	0.63	0.59	0.53	0.48
	η ^s	0.74	0.70	0.66	0.59	0.54	0.51	0.44	0.39	0.36	0.32	0.27	0.24
SRV063	z1		4	3	2	2	2	1	1	1	1	1	1
	mx		3.25	3.25	3.25	2.48	2	3.25	2.48	2	1.68	1.27	1.02
	γ		24° 31'	18° 53'	12° 51'	10° 29'	8° 45'	6° 30'	5° 17'	4° 24'	3° 49'	2° 59'	2° 26'
	η ^d		0.88	0.86	0.82	0.80	0.77	0.73	0.69	0.65	0.62	0.56	0.51
	η ^s		0.70	0.66	0.59	0.55	0.51	0.44	0.40	0.36	0.33	0.28	0.24
SRV075	z1		4	3	2	2	2	1	1	1	1	1	1
	mx		3.95	3.95	3.95	3	2.42	3.95	3	2.42	2.02	1.54	1.24
	γ		26° 38'	20° 37'	14° 05'	11° 19'	9° 29'	7° 09'	5° 43'	4° 46'	4° 01'	3° 17'	2° 44'
	η ^d		0.88	0.87	0.84	0.81	0.79	0.76	0.72	0.68	0.64	0.59	0.55
	η ^s		0.71	0.68	0.61	0.57	0.53	0.47	0.41	0.37	0.34	0.29	0.26
SRV090	z1		4	3	2	2	2	1	1	1	1	1	1
	mx		4.84	4.84	4.84	3.69	2.98	4.84	3.69	2.98	2.5	1.89	1.52
	γ		29° 05'	22° 39'	15° 33'	12° 50'	10° 53'	7° 55'	6° 30'	5° 29'	4° 46'	3° 45'	3° 06'
	η ^d		0.89	0.88	0.85	0.83	0.81	0.78	0.74	0.71	0.68	0.63	0.59
	η ^s		0.72	0.69	0.63	0.59	0.56	0.49	0.44	0.41	0.37	0.32	0.28
SRV110	z1		4	3	2	2	2	1	1	1	1	1	1
	mx		5.875	5.875	5.875	4.62	3.73	5.875	4.62	3.73	3.13	2.37	1.91
	γ		28° 15'	21° 57'	15° 02'	14° 42'	12° 33'	7° 39'	7° 29'	6° 21'	5° 33'	4° 27'	3° 46'
	η ^d		0.89	0.88	0.86	0.85	0.83	0.79	0.77	0.74	0.72	0.67	0.63
	η ^s		0.72	0.69	0.62	0.62	0.59	0.48	0.48	0.44	0.41	0.36	0.32
SRV130	z1		4	3	2	2	2	1	1	1	1	1	1
	mx		6.97	6.97	6.97	5.4	4.37	6.97	5.4	4.37	3.67	2.77	2.23
	γ		28° 43'	22° 20'	15° 19'	13° 47'	11° 54'	7° 48'	7° 00'	6° 01'	5° 16'	4° 08'	3° 27'
	η ^d		0.90	0.89	0.87	0.85	0.84	0.80	0.78	0.75	0.73	0.68	0.64
	η ^s		0.72	0.69	0.63	0.61	0.58	0.49	0.46	0.43	0.40	0.34	0.30
SRV150	z1		6	4	3	2	2	2	1	1	1	1	1
	mx		5.5	6.2	5.5	6.2	5	4.2	6.2	5	4.2	3.2	2.55
	γ		32° 09'	25° 30'	17° 27'	13° 25'	11° 19'	9° 56'	6° 48'	5° 43'	5°	4° 10'	3° 14'
	η ^d		0.91	0.9	0.88	0.87	0.84	0.83	0.79	0.76	0.74	0.69	0.64
	η ^s		0.73	0.72	0.66	0.62	0.57	0.54	0.46	0.42	0.40	0.34	0.29

PERFORMANCE PARAMETER

P _{1n} [Kw]	n ₂ [1/min]	M _{2n} [Nm]	i	Fr ₂ [N]	f _s	MODELS	MOTOR
0.06	186.7	2.60	7.5	503	4.20	SRV025	5614
	140.0	3.40	10.0	553	3.50		
	93.3	4.90	15.0	633	2.50		
	70.0	6.20	20.0	697	2.00		
	46.7	8.30	30.0	798	1.60		
	35.0	10.00	40.0	878	1.30		
	28.0	12.00	50.0	946	0.90		
	23.3	14.00	60.0	1006	0.70		
	186.7	2.30	7.5	683	7.82		
	140.0	3.07	10.0	752	5.86		
	93.3	4.42	15.0	861	4.07		
	70.0	5.77	20.0	948	3.12		
	56.0	6.63	25.0	1021	3.02		
	46.7	7.76	30.0	1085	2.58		
	35.0	8.96	40.0	1194	2.01		
	28.0	9.31	50.0	1286	1.83		
	23.3	9.82	60.0	1367	1.63		
	17.5	12.11	80.0	1504	0.99		
	14.0	25.00	100.0	1620	1.30		
	9.3	33.00	150.0	1830	0.90		
	7.0	41.00	200.0	1830	0.70		
	5.6	45.00	250.0	1830	0.80		
	4.7	56.00	300.0	3490	1.20		
	3.5	69.00	400.0	3490	0.90		
	2.8	94.00	500.0	3490	0.70		
	2.3	100.00	600.0	3490	0.60		
	1.9	115.00	750.0	3490	0.50		
	1.6	125.00	900.0	3490	0.50		
	1.2	153.00	1200.0	3490	0.40		
	0.93	185.00	1500.0	3490	0.30		
	0.78	198.00	1800.0	3490	0.30		
	0.58	247.00	2400.0	3490	0.20		
	0.47	280.00	3000.0	3490	0.20		
	0.35	295.00	4000.0	3490	0.10		
	0.28	348.00	5000.0	3490	0.10		
	4.7	55.00	300.0	3490	1.30		
	3.5	67.00	400.0	3490	0.90		
	2.8	88.00	500.0	3490	0.60		
	2.3	95.00	600.0	3490	0.70		
	1.9	103.00	750.0	3490	0.60		
1.6	118.00	900.0	3490	0.50			
1.2	143.00	1200.0	3490	0.40			
0.93	166.00	1500.0	3490	0.40			
0.78	184.00	1800.0	3490	0.30			
0.58	217.00	2400.0	3490	0.20			
0.44	247.00	3200.0	3490	0.20			
0.35	278.00	4000.0	3490	0.10			
0.28	327.00	5000.0	3490	0.10			
						SRV025-030	5614
						SRV025-040	5614
						SRV030-040	5614

PERFORMANCE PARAMETER

P _{1n} [Kw]	n ₂ [1/min]	M _{2n} [Nm]	i	Fr ₂ [N]	f _s	MODELS	MOTOR
0.06	1.6	118.00	900.0	4840	1.00	SRV030-050	5614
	1.2	143.00	1200.0	4840	0.70		
	0.93	166.00	1500.0	4840	0.70		
	0.78	184.00	1800.0	4840	0.70		
	0.58	227.00	2400.0	4840	0.50		
	0.47	256.00	3000.0	4840	0.40		
	0.35	278.00	4000.0	4840	0.30		
	0.29	316.00	4800.0	4840	0.30		
	0.93	173.00	1500.0	6270	1.10	SRV030-063	5614
	0.78	191.00	1800.0	6270	0.90		
	0.58	227.00	2400.0	6270	0.80		
	0.47	256.00	3000.0	6270	0.70		
	0.35	295.00	4000.0	6270	0.60		
	0.28	327.00	5000.0	6270	0.40		
	0.58	267.00	2400.0	7380	1.10	SRV040-075	5614
	0.47	305.00	3000.0	7380	0.80		
	0.35	360.00	4000.0	7380	0.70		
	0.28	409.00	5000.0	7380	0.50		
	0.47	329.00	3000.0	8180	1.40	SRV040-090	5614
	0.35	393.00	4000.0	8180	1.30		
0.28	430.00	5000.0	8180	1.00			
373.3	2.00	7.5	399	3.90	SRV025	5612	
280.0	2.60	10.0	439	3.40			
186.7	3.80	15.0	503	2.40			
140.0	4.90	20.0	553	1.90			
93.3	6.70	30.0	633	1.30			
70.0	8.50	40.0	697	1.10			
56.0	10.00	50.0	751	0.90			
186.7	3.90	7.5	503	2.80			
140.0	5.10	10.0	553	2.40	SRV025	5624	
93.3	7.30	15.0	633	1.60			
70.0	9.30	20.0	697	1.30			
46.7	13.00	30.0	798	1.10			
35.0	16.00	40.0	878	0.90			
373.3	1.73	7.5	542	7.53	SRV030	5612	
280.0	2.30	10.0	597	5.65			
186.7	3.32	15.0	683	3.92			
140.0	4.33	20.0	752	2.77			
112.0	4.97	25.0	810	3.02			
93.3	5.82	30.0	861	2.58			
70.0	6.72	40.0	948	2.08			
56.0	6.98	50.0	1021	1.72			
46.7	7.37	60.0	1085	1.63			
35.0	9.09	80.0	1194	1.21			
186.7	3.45	7.5	683	5.21			
140.0	4.60	10.0	752	3.91			SRV030
93.3	6.63	15.0	861	2.71			
70.0	8.66	20.0	948	2.08			
56.0	9.95	25.0	1021	2.01			

PERFORMANCE PARAMETER

P _{1n} [Kw]	n ₂ [1/min]	M _{2n} [Nm]	i	Fr ₂ [N]	f _s	MODELS	MOTOR
0.09	46.7	11.64	30.0	1085	1.72	SRV030	5624
	35.0	13.43	40.0	1194	1.34		
	28.0	13.97	50.0	1286	1.22		
	23.3	14.73	60.0	1367	1.09		
	28.0	18.00	100.0	1286	1.60	SRV025-030	5612
	18.7	25.00	150.0	1472	1.10		
	14.0	31.00	200.0	1620	0.90		
	14.0	37.00	100.0	1620	0.80		
	9.3	50.00	150.0	1830	0.60	SRV025-030	5624
	7.0	61.00	200.0	1830	0.50		
	5.6	68.00	250.0	1830	0.50		
	4.7	77.00	300.0	1830	0.40		
	3.5	106.00	400.0	1830	0.30		
	2.8	117.00	500.0	1830	0.30		
	2.3	135.00	600.0	1830	0.20		
	1.9	149.00	750.0	1830	0.20		
	1.6	167.00	900.0	1830	0.20		
	1.2	201.00	1200.0	1830	0.10		
	0.93	231.00	1500.0	1830	0.10		
	0.78	264.00	1800.0	1830	0.10		
	0.58	311.00	2400.0	1830	0.10		
	0.47	347.00	3000.0	1830	0.10		
	28.0	18.33	50.0	2475	2.02	SRV040	5624
	23.3	21.03	60.0	2630	1.66		
	17.5	23.57	80.0	2895	1.40		
	14.0	28.55	100.0	3118	1.02		
	9.3	43.00	300.0	3490	1.60	SRV025-040	5612
	7.0	52.00	400.0	3490	1.20		
	5.6	71.00	500.0	3490	0.80		
	4.7	82.00	300.0	3490	0.80	SRV030-040	5624
	3.5	103.00	400.0	4840	1.20	SRV030-050	5624
	2.8	120.00	500.0	4840	1.00		
	2.3	146.00	600.0	4840	0.90		
	1.9	158.00	750.0	4840	0.80		
	1.6	177.00	900.0	4840	0.70		
	1.6	188.00	900.0	6270	1.00		
	1.2	222.00	1200.0	6270	0.90	SRV030-063	5624
	0.93	259.00	1500.0	6270	0.70	SRV040-075	5624
	0.93	305.00	1500.0	7380	1.10		
	0.78	331.00	1800.0	7380	1.00		
0.58	400.00	2400.0	7380	0.70			
0.47	494.00	3000.0	8180	0.90	SRV040-090	5624	
0.35	589.00	4000.0	8180	0.80			
373.3	2.70	7.5	399	3.00			
280.0	3.50	10.0	439	2.60	SRV025	5622	
186.7	5.10	15.0	503	1.80			
140.0	6.50	20.0	553	1.40			
93.3	9.00	30.0	633	1.00			
70.0	11.00	40.0	697	0.80			

PERFORMANCE PARAMETER

P _{1n} [Kw]	n ₂ [1/min]	M _{2n} [Nm]	i	Fr ₂ [N]	f _s	MODELS	MOTOR
0.12	186.7	4.60	7.5	683	3.91	SRV030	6314
	140.0	6.14	10.0	752	2.93		
	93.3	8.84	15.0	861	2.04		
	70.0	11.54	20.0	948	1.56		
	56.0	13.26	25.0	1021	1.51		
	46.7	15.52	30.0	1085	1.29		
	35.0	17.91	40.0	1194	1.01		
	28.0	18.62	50.0	1286	0.91		
	46.7	17.68	30.0	2087	2.49		
	35.0	21.48	40.0	2298	1.91		
	28.0	24.43	50.0	2475	1.51	SRV040	6314
	23.3	28.04	60.0	2630	1.25		
	17.5	31.43	80.0	2895	1.05		
	14.0	38.06	100.0	3118	0.76		
	23.3	28.24	60.0	3610	2.41		
	17.5	36.02	80.0	3973	1.78	SRV050	6314
	14.0	34.38	100.0	4280	1.51		
	4.7	112.00	300.0	4840	1.20	SRV030-050	6314
	3.5	138.00	400.0	4840	0.90		
	2.8	160.00	500.0	4840	0.70	SRV030-063	6314
	2.8	168.00	500.0	6270	1.30		
	2.3	199.00	600.0	6270	1.10		
	1.9	217.00	750.0	6270	0.90	SRV040-075	6314
	1.6	279.00	900.0	7380	1.20		
	1.2	344.00	1200.0	7380	0.90		
	0.8	470.00	1800.0	8180	0.90	SRV040-090	6314
	0.6	593.00	2400.0	8180	0.90		
	0.5	731.00	3000.0	10320	1.20	SRV050-110	6314
	0.4	884.00	4000.0	10320	1.10		
	0.3	1023.00	5000.0	10320	0.80		
0.18	373.3	3.45	7.5	542	3.76	SRV030	6312
	280.0	4.60	10.0	597	2.82		
	186.7	6.63	15.0	683	1.96		
	140.0	8.66	20.0	752	1.39		
	112.0	9.95	25.0	810	1.51		
	93.3	11.64	30.0	861	1.29		
	70.0	13.43	40.0	948	1.04		
	186.7	6.91	7.5	683	2.61		
	140.0	9.21	10.0	752	1.95	SRV030	6324
	93.3	13.26	15.0	861	1.36		
	70.0	17.31	20.0	948	1.04		
	56.0	19.89	25.0	1021	1.01		
	46.7	23.28	30.0	1085	0.86		
	93.3	13.26	30.0	1657	2.56		
	70.0	16.11	40.0	1824	1.92	SRV040	6312
	56.0	18.33	50.0	1964	1.64		
	70.0	19.60	20.0	1824	1.99	SRV040	6324
	56.0	23.11	25.0	1964	1.64		
	46.7	26.52	30.0	2087	1.66		

PERFORMANCE PARAMETER

P _{1n} [Kw]	n ₂ [1/min]	M _{2n} [Nm]	i	Fr ₂ [N]	f _s	MODELS	MOTOR
0.18	35.0	32.22	40.0	2298	1.27	SRV040	6324
	28.0	36.65	50.0	2475	1.01		
	23.3	42.07	60.0	2630	0.83		
	45.0	28.58	20.0	2113	1.54		
	36.0	33.71	25.0	2276	1.31	SRV040	7116
	30.0	38.68	30.0	2419	1.24		
	22.5	46.99	40.0	2662	0.94		
	46.7	21.18	60.0	2865	2.36		
	35.0	27.01	80.0	3153	1.67	SRV050	6312
	28.0	25.79	100.0	3397	1.55		
	35.0	33.89	40.0	3153	2.27		
	28.0	39.05	50.0	3397	1.87		
	23.3	42.36	60.0	3610	1.61	SRV050	6324
	17.5	54.03	80.0	3973	1.18		
	14.0	51.57	100.0	4280	1.01		
	18.0	56.94	50.0	3936	1.37		
	15.0	61.78	60.0	4183	1.20	SRV050	7116
	11.3	78.79	80.0	4604	0.84		
	15.0	70.91	60.0	5467	1.93	SRV063	7116
	11.3	85.95	80.0	6018	1.48		
	9.0	98.48	100.0	6270	1.27	SRV030-063	6324
	3.5	216.00	400.0	6270	1.00		
	2.8	252.00	500.0	6270	0.80		
	2.3	336.00	600.0	7380	1.10	SRV040-075	6324
	1.9	371.00	750.0	7380	0.90		
	1.6	419.00	900.0	7380	0.80		
	1.2	544.00	1200.0	8180	1.00	SRV040-090	6324
	0.93	647.00	1500.0	8180	0.80		
	0.78	727.00	1800.0	10320	1.50	SRV050-110	6324
	0.58	948.00	2400.0	10320	1.10		
	373.3	4.80	7.5	542	2.71		
	280.0	6.40	10.0	597	2.03		
	186.7	9.21	15.0	683	1.41		
	140.0	12.02	20.0	752	1.00		
	112.0	13.81	25.0	810	1.09		
	93.3	16.17	30.0	861	0.93		
	186.7	11.06	7.5	1315	3.62		
	140.0	14.56	10.0	1447	2.75		
	93.3	21.08	15.0	1657	1.85	SRV040	7114
	70.0	27.22	20.0	1824	1.43		
56.0	32.10	25.0	1964	1.18			
46.7	36.84	30.0	2087	1.19			
35.0	44.75	40.0	2298	0.92			
120.0	16.13	7.5	1524	2.67			
90.0	21.24	10.0	1677	2.07	SRV040	7126	
60.0	30.74	15.0	1920	1.46			
45.0	39.69	20.0	2113	1.11			
36.0	46.82	25.0	2276	0.94			
30.0	53.72	30.0	2419	0.89			

PERFORMANCE PARAMETER

P _{1n} [Kw]	n ₂ [1/min]	M _{2n} [Nm]	i	Fr ₂ [N]	f _s	MODELS	MOTOR
0.25	35.0	37.52	80.0	3153	1.20	SRV050	6322
	28.0	35.81	100.0	3397	1.12		
	70.0	27.29	20.0	2503	2.64		
	56.0	32.83	25.0	2696	2.10		
	46.7	37.45	30.0	2865	2.22	SRV050	7114
	35.0	47.07	40.0	3153	1.64		
	28.0	54.23	50.0	3397	1.35		
	23.3	58.83	60.0	3610	1.16		
	17.5	75.04	80.0	3973	0.85	SRV050	7126
	45.0	39.79	20.0	2900	1.91		
	36.0	47.87	25.0	3124	1.59		
	30.0	54.61	30.0	3320	1.67		
	22.5	68.64	40.0	3654	1.21	SRV063	7114
	18.0	79.09	50.0	3936	0.99		
	15.0	85.80	60.0	4183	0.86		
	28.0	59.69	50.0	4440	2.23		
	23.3	67.53	60.0	4719	1.93	SRV063	7126
	17.5	81.86	80.0	5193	1.45		
	14.0	93.79	100.0	5595	1.26		
	18.0	87.04	50.0	5145	1.68		
	15.0	98.48	60.0	5467	1.39	SRV063	7126
	11.3	119.38	80.0	6018	1.06		
	9.0	136.78	100.0	6270	0.91		
	7.0	150.00	400.0	6270	1.40		
	5.6	175.00	500.0	6270	1.20	SRV030-063	6322
	17.5	80.00	80.0	6130	2.30	SRV075	7114
	14.0	94.00	100.0	6603	1.90	SRV075	7126
	11.3	116.00	80.0	7103	1.70		
	9.0	133.00	100.0	7380	1.40	SRV040-075	7114
	3.5	321.00	400.0	7380	1.10		
	2.8	375.00	500.0	7380	0.80	SRV040-090	7114
	2.3	488.00	600.0	8180	1.20		
	1.9	553.00	750.0	8180	0.90	SRV050-110	7114
	1.6	612.00	900.0	8180	0.80		
	1.2	776.00	1200.0	10320	1.30	SRV063-130	7114
	0.9	924.00	1500.0	10320	1.20		
	0.8	1010.00	1800.0	10320	1.10	SRV063-150	7114
	0.6	1358.00	2400.0	13500	1.00		
	0.5	1626.00	3000.0	13500	0.80	SRV063-150	7114
	0.4	1910.00	4000.0	13500	0.60		
0.3	2132.00	5000.0	13500	0.50	SRV063-150	7114	
0.8	1119.00	1800.0	18000	1.80			
0.6	1446.00	2400.0	18000	1.80	SRV063-150	7114	
0.5	1713.00	3000.0	18000	1.40			
0.4	2026.00	4000.0	18000	0.90	SRV063-150	7114	
0.3	2251.00	5000.0	18000	0.70			

PERFORMANCE PARAMETER

P _{1n} [Kw]	n ₂ [1/min]	M _{2n} [Nm]	i	Fr ₂ [N]	f _s	MODELS	MOTOR
0.37	373.3	8.19	7.5	1044	3.30	SRV040	7112
	280.0	10.78	10.0	1149	2.78		
	186.7	15.60	15.0	1315	1.99		
	140.0	20.14	20.0	1447	1.44		
	112.0	23.76	25.0	1559	1.18	SRV040	7124
	186.7	16.37	7.5	13115	2.44		
	140.0	21.55	10.0	1447	1.86		
	93.3	31.20	15.0	1657	1.25		
	70.0	40.28	20.0	1824	0.97	SRV050	7112
	56.0	47.51	25.0	1964	0.80		
	46.7	54.52	30.0	2087	0.81		
	112.0	24.29	25.0	2140	2.10		
	93.3	27.71	30.0	2274	2.35	SRV050	7124
	70.0	34.83	40.0	2503	1.69		
	56.0	40.13	50.0	2696	1.32		
	46.7	43.54	60.0	2865	1.15		
	35.0	55.53	80.0	3153	0.81	SRV050	7124
	140.0	21.96	10.0	1987	3.19		
	93.3	31.61	15.0	2274	2.31		
	70.0	40.38	20.0	2503	1.78		
	56.0	48.59	25.0	2696	1.42	SRV050	8016
	46.7	55.43	30.0	2865	1.50		
	35.0	69.66	40.0	3153	1.11		
	28.0	80.26	50.0	3397	0.91		
	23.3	87.08	60.0	3610	0.78	SRV050	8016
	120.0	24.24	7.5	2091	3.34		
	90.0	32.02	10.0	2302	2.59		
	60.0	46.10	15.0	2635	1.82		
	45.0	58.89	20.0	2900	1.29	SRV063	7124
	36.0	70.85	25.0	3124	1.07		
	30.0	80.83	30.0	3320	1.13		
	35.0	72.18	40.0	4122	1.98		
	28.0	88.34	50.0	4440	1.51	SRV063	8016
	23.3	99.95	60.0	4719	1.30		
	17.5	121.15	80.0	5193	0.98		
	14.0	138.82	100.0	5595	0.85		
	45.0	61.84	20.0	3791	2.41	SRV030-063	7112
	36.0	73.61	25.0	4084	1.83		
	30.0	85.02	30.0	4339	2.07		
	22.5	105.27	40.0	4776	1.52		
18.0	128.83	50.0	5145	1.13	SRV075	7124	
15.0	145.76	60.0	5467	0.94			
9.3	182.00	300.0	6270	1.30			
7.0	222.00	400.0	6270	1.00			
23.3	97.00	60.0	5569	2.00	SRV075	7124	
17.5	119.00	80.0	6130	1.60			
14.0	139.00	100.0	6603	1.30	SRV075	7124	

PERFORMANCE PARAMETER

P _{1n} [Kw]	n ₂ [1/min]	M _{2n} [Nm]	i	Fr ₂ [N]	f _s	MODELS	MOTOR			
0.37	18.0	136.19	50.0	6073	1.59	SRV075	8016			
	15.0	149.07	60.0	6453	1.38					
	11.3	182.56	80.0	7103	1.10					
	9.0	209.80	100.0	7380	0.91					
	4.7	383.0	300.0	7380	1.00	SRV040-075	7124			
	3.5	474.0	400.0	7380	0.70	SRV090	8016			
	11.3	192.28	80.0	7859	1.63					
	9.0	220.84	100.0	8180	1.27					
	4.7	406.00	300.0	8180	1.50					
	3.5	505.00	400.0	8180	1.20	SRV040-090	7124			
	2.8	593.00	500.0	8180	0.90					
	2.3	722.00	600.0	8180	0.80					
	1.9	837.00	750.0	10320	1.30					
	1.6	928.00	900.0	10320	1.20	SRV050-110	7124			
	1.2	1148.00	1200.0	10320	0.80	SRV063-130	7124			
	0.9	1444.00	1500.0	13500	1.10					
	0.8	1586.00	1800.0	13500	0.90					
	0.8	1774.00	1800.0	18000	1.20					
	0.6	2141.00	2400.0	18000	1.20	SRV063-150	7124			
	0.5	2535.00	3000.0	18000	0.90					
0.55	373.3	12.17	7.5	1044	2.22	SRV040	7122			
	280.0	16.02	10.0	1149	1.87					
	186.7	23.19	15.0	1315	1.34					
	140.0	29.94	20.0	1447	0.97					
	112.0	35.31	25.0	1559	0.79					
	140.0	30.01	20.0	1987	1.77					
	112.0	36.11	25.0	2140	1.41					
	93.3	41.19	30.0	2274	1.58					
	70.0	51.77	40.0	2503	1.14	SRV050	7122			
	56.0	59.65	50.0	2696	0.89					
	46.7	64.72	60.0	2865	0.77					
	186.7	24.71	7.5	1805	2.87					
	140.0	32.64	10.0	1987	2.14					
	93.3	46.99	15.0	2274	1.55					
	70.0	60.03	20.0	2503	1.20					
	56.0	72.22	25.0	2696	0.96					
	46.7	82.39	30.0	2865	1.01	SRV050	8014			
	120.0	36.03	7.5	2091	2.25					
	90.0	47.60	10.0	2302	1.74					
	60.0	68.53	15.0	2635	1.23					
	45.0	87.54	20.0	2900	0.87					
	70.0	53.65	40.0	3272	2.11					
	56.0	65.66	50.0	3524	1.55					
	46.7	74.29	60.0	3745	1.29					
	35.0	90.04	80.0	4122	0.96	SRV063	7122			
	28.0	103.17	100.0	4440	0.72					
	70.0	63.03	20.0	3272	2.08					
	56.0	75.04	25.0	3524	1.75					
	46.7	86.67	30.0	3745	1.89					
	0.75	373.3	16.84	7.5	1433			3.09	SRV050	8012
		280.0	22.25	10.0	1577			2.38		
		186.7	32.04	15.0	1805			1.78		
		140.0	40.93	20.0	1987	1.29				
		112.0	49.24	25.0	2140	1.04	SRV050	8012		
		93.3	56.17	30.0	2274	1.16				

PERFORMANCE PARAMETER

P _{1n} [Kw]	n ₂ [1/min]	M _{2n} [Nm]	i	Fr ₂ [N]	f _s	MODELS	MOTOR
0.55	35.0	107.30	40.0	4122	1.33	SRV063	8014
	28.0	131.31	50.0	4440	1.01		
	23.3	148.57	60.0	4719	0.88		
	60.0	70.58	15.0	3444	2.17		
	45.0	91.92	20.0	3791	1.62	SRV063	8026
	36.0	109.43	25.0	4084	1.23		
	30.0	126.39	30.0	4339	1.39		
	22.5	156.48	40.0	4776	1.02		
	35.0	112.55	40.0	4865	1.92	SRV075	8014
	28.0	138.82	50.0	5241	1.48		
	23.3	151.95	60.0	5569	1.30		
	17.5	186.09	80.0	6130	1.00		
	14.0	213.85	100.0	6603	0.84	SRV075	8026
	30.0	128.03	30.0	5122	1.94		
	22.5	164.14	40.0	5637	0.22		
	18.0	202.44	50.0	6073	1.07		
	15.0	221.59	60.0	6453	0.93	SRV090	8014
	17.5	195.99	80.0	6783	1.45		
	14.0	225.11	100.0	7306	1.20		
	18.0	205.18	50.0	6719	1.91		
	15.0	233.08	60.0	7140	1.50	SRV090	8026
	11.3	285.82	80.0	7859	1.10		
	9.0	328.28	100.0	8180	0.86		
	9.3	305.0	300.0	8180	2.00		
	7.0	375.0	400.0	8180	1.50	SRV040-090	7122
	5.6	441.00	500.0	8180	1.20		
	17.5	201.00	80.0	8571	2.60		
	14.0	236.00	100.0	9232	2.00		
	11.3	293.00	80.0	9931	1.90	SRV110	8014
	9.0	344.00	100.0	10320	1.50		
	4.7	615.00	300.0	10320	2.00		
	3.5	810.00	400.0	10320	1.40		
	2.8	938.00	500.0	10320	1.10	SRV050-110	8014
	2.3	1096.00	600.0	10320	1.00		
	1.9	1244.00	750.0	10320	0.90		
	2.8	957.00	500.0	13500	1.60		
	1.9	1382.00	750.0	13500	1.20	SRV063-130	8014
	1.2	2057.00	1200.0	13500	0.80		
	0.8	2638.00	1800.0	18000	0.80		
	0.6	3182.00	2400.0	18000	0.80		
0.75	373.3	16.84	7.5	1433	3.09	SRV050	8012
	280.0	22.25	10.0	1577	2.38		
	186.7	32.04	15.0	1805	1.78		
	140.0	40.93	20.0	1987	1.29		
	112.0	49.24	25.0	2140	1.04		
	93.3	56.17	30.0	2274	1.16		

PERFORMANCE PARAMETER

P _{1n} [Kw]	n ₂ [1/min]	M _{2n} [Nm]	i	Fr ₂ [N]	f _s	MODELS	MOTOR
0.75	186.7	33.69	7.5	1805	2.11	SRV050	8024
	140.0	44.51	10.0	1987	1.57		
	93.3	64.08	15.0	2274	1.14		
	70.0	81.86	20.0	2503	0.88		
	140.0	42.98	20.0	2597	2.26		
	112.0	51.16	25.0	2797	1.78	SRV063	8012
	93.3	59.09	30.0	2973	2.03		
	70.0	73.16	40.0	3272	1.54		
	56.0	89.53	50.0	3524	1.14		
	46.7	101.30	60.0	3745	0.95		
	93.3	66.00	15.0	2973	2.03	SRV063	8024
	70.0	85.95	20.0	3272	1.52		
	56.0	102.32	25.0	3524	1.28		
	46.7	118.18	30.0	3745	1.39		
	35.0	146.32	40.0	4122	0.98		
	120.0	50.36	7.5	2734	3.00	SRV063	90S6
	90.0	65.66	10.0	3009	2.32		
	60.0	96.25	15.0	3444	1.59		
	45.0	125.34	20.0	3791	1.19		
	36.0	149.22	25.0	4084	0.90		
	30.0	172.35	30.0	4339	1.02	SRV075	8012
	46.7	103.60	60.0	4421	1.38		
	35.0	126.88	80.0	4865	1.02		
	28.0	145.81	100.0	5241	0.84		
	56.0	101.43	25.0	4160	1.99		
	46.7	119.72	30.0	4421	1.95	SRV075	8024
	35.0	153.48	40.0	4865	1.41		
	28.0	189.29	50.0	5241	1.09		
	23.3	207.20	60.0	5569	0.95		
	60.0	96.92	15.0	4065	2.39		
	45.0	124.75	20.0	4474	1.86	SRV075	90S6
	36.0	147.91	25.0	4820	1.48		
	30.0	174.59	30.0	5122	1.43		
	22.5	223.83	40.0	5637	0.16		
	35.0	133.63	80.0	5383	1.71		
	28.0	153.48	100.0	5799	1.32	SRV090	8012
	28.0	191.85	50.0	5799	1.77		
	23.3	217.94	60.0	6163	1.41	SRV090	8024
	17.5	267.26	80.0	6783	1.07		
	14.0	306.96	100.0	7306	0.88		
	30.0	179.06	30.0	5667	2.54	SRV090	90S6
	22.5	229.80	40.0	6238	1.84		
	18.0	279.79	50.0	6719	1.40		
	15.0	317.84	60.0	7140	1.10		
	7.0	512.00	400.0	8180	1.10		
	5.6	601.00	500.0	8180	0.90	SRV040-090	8012
	17.5	274.00	80.0	8571	1.90	SRV110	8024
	14.0	322.00	100.0	9232	1.50		

PERFORMANCE PARAMETER

P _{1n} [Kw]	n ₂ [1/min]	M _{2n} [Nm]	i	Fr ₂ [N]	f _s	MODELS	MOTOR
0.75	15.0	335.74	60.0	9023	2.06	SRV110	90S6
	11.3	411.84	80.0	9931	1.42		
	9.0	470.04	100.0	10320	1.12		
	9.3	424.00	300.0	10320	2.80		
	7.0	553.00	400.0	10320	2.10		
	5.6	640.00	500.0	10320	1.60	SRV050-110	8012
	4.7	838.00	300.0	10320	1.50		
	3.5	1105.00	400.0	10320	1.10		
	11.3	411.84	80.0	12989	2.07		
	9.0	484.96	100.0	13500	1.55		
	2.8	1305.00	500.0	13500	1.10	SRV050-110	8024
	2.3	1557.00	600.0	13500	1.00		
	1.9	1772.00	750.0	13500	0.90		
	1.6	2014.00	900.0	13500	0.80		
	2.8	1291.00	500.0	18000	1.80		
	2.3	1529.00	600.0	18000	1.70	SRV063-130	8024
	1.9	1783.00	750.0	18000	1.30		
	1.6	2215.00	900.0	18000	0.90		
	1.2	2680.00	1200.0	18000	1.00		
	373.3	24.71	7.5	1433	2.10		
	280.0	32.64	10.0	1577	1.62		
	186.7	46.99	15.0	1805	1.21		
	140.0	60.03	20.0	1987	0.88		
	186.7	48.40	15.0	2359	2.09		
	140.0	63.03	20.0	2597	1.54	SRV050	8022
	112.0	75.04	25.0	2797	1.21		
	93.3	86.67	30.0	2973	1.38		
	70.0	107.30	40.0	3272	1.05		
	186.7	50.65	7.5	2359	2.49		
	140.0	66.03	10.0	5797	1.95	SRV063	8022
93.3	96.80	15.0	2973	1.38			
70.0	126.06	20.0	3272	1.04			
56.0	150.07	25.0	3524	0.87			
46.7	173.33	30.0	3745	0.95			
120.0	73.86	7.5	2734	2.04	SRV063	90S4	
90.0	96.30	10.0	3009	1.58			
60.0	141.16	15.0	3444	1.08			
45.0	183.84	20.0	3791	0.81			
112.0	74.38	25.0	3302	1.98			
93.3	87.79	30.0	3509	1.94	SRV063	90L6	
70.0	112.55	40.0	3862	1.47			
56.0	138.82	50.0	4160	1.07			
46.7	151.95	60.0	4421	0.94			
93.3	97.47	15.0	3509	2.03			
70.0	125.46	20.0	3862	1.67	SRV075	8022	
56.0	148.76	25.0	4160	1.36			
46.7	175.58	30.0	4421	1.33			
35.0	225.11	40.0	4865	0.96			

PERFORMANCE PARAMETER

P_{1n} [Kw]	n_2 [1/min]	M_{2n} [Nm]	i	F_{r2} [N]	f_s	MODELS	MOTOR	
1.1	90.0	96.62	10.0	3551	2.31	SRV075	90L6	
	60.0	142.15	15.0	4065	1.63			
	45.0	182.96	20.0	4474	1.27			
	36.0	216.94	25.0	4820	1.01			
	30.0	256.06	30.0	5122	0.97			
	35.0	195.99	80.0	5383	1.17	SRV090	8022	
	28.0	225.11	100.0	5799	0.90			
	35.0	231.11	40.0	5383	1.57			
	28.0	281.38	50.0	5799	1.20	SRV090	90S4	
	23.3	319.65	60.0	6163	0.96			
	36.0	229.80	25.0	5333	1.62	SRV090	90L6	
	30.0	262.63	30.0	5667	1.73			
	22.5	337.04	40.0	6238	1.25			
	18.0	410.35	50.0	6719	0.95			
	15.0	466.16	60.0	7140	0.75			
	28.0	288.89	50.0	7328	2.27	SRV110	90S4	
	23.3	337.66	60.0	7787	1.84			
	17.5	414.20	80.0	8571	1.24			
	14.0	472.73	100.0	9232	1.00			
	9.3	621.00	300.0	10320	1.90			
	7.0	810.00	400.0	10320	1.40	SRV050-110	8022	
	5.6	938.00	500.0	10320	1.10			
	22.5	350.17	40.0	7882	2.24	SRV110	90L6	
	18.0	421.29	50.0	8491	1.79			
	15.0	492.42	60.0	9023	1.41			
	11.3	604.04	80.0	9931	0.97			
	17.5	414.20	80.0	11210	2.08			
	14.0	487.73	100.0	12076	1.52	SRV130	90S4	
	11.3	604.04	80.0	12989	1.41	SRV130	90L6	
	9.0	711.28	100.0	13500	1.06	SRV063-130	90S4	
	4.7	1274.00	300.0	13500	1.30			
	3.5	1621.00	400.0	13500	1.10			
	2.8	1913.00	500.0	13500	0.80			
	9.3	753.00	150.0	18000	3.10			SRV063-150
	7.0	956.00	200.0	18000	2.40			
	5.6	1175.00	250.0	18000	1.70			
	4.7	1364.00	300.0	18000	1.70			
	3.5	1619.00	400.0	18000	1.60			
	2.8	1893.00	500.0	18000	1.20			
	2.3	2242.00	600.0	18000	1.20			
1.9	2616.00	750.0	18000	0.90				
373.3	34.53	7.5	1873	2.66	SRV063	90S2		
280.0	45.02	10.0	2061	2.13				
186.7	66.00	15.0	2359	1.53				
140.0	85.95	20.0	2597	1.13				
112.0	102.32	25.0	2797	0.89				
93.3	118.18	30.0	2973	1.02				

PERFORMANCE PARAMETER

P_{1n} [Kw]	n_2 [1/min]	M_{2n} [Nm]	i	F_{r2} [N]	f_s	MODELS	MOTOR
1.5	186.7	69.07	7.5	2359	1.82	SRV063	90L4
	140.0	90.04	10.0	2597	1.43		
	93.3	131.99	15.0	2973	1.02		
	70.0	171.90	20.0	3272	0.76		
	280.0	45.17	10.0	2433	3.12		
	186.7	66.46	15.0	2785	2.26		
	140.0	85.54	20.0	3065	1.87		
	112.0	101.43	25.0	3302	1.45		
	93.3	119.72	30.0	3509	1.42		
	70.0	153.48	40.0	3862	1.08	SRV075	90L4
	56.0	189.29	50.0	4160	0.79		
	46.7	207.20	60.0	4421	0.69		
	140.0	90.35	10.0	3065	2.10		
	93.3	132.92	15.0	3509	1.49		
	70.0	171.08	20.0	3862	1.23	SRV075	100L6
	56.0	202.85	25.0	4160	1.00		
	46.7	239.43	30.0	4421	0.97		
	120.0	100.72	7.5	3227	2.10		
	90.0	131.76	10.0	3551	1.69		
	60.0	193.84	15.0	4065	1.20	SRV075	100L6
	56.0	191.85	50.0	4603	1.37	SRV090	90S2
	46.7	217.94	60.0	4891	1.11		
	70.0	174.97	20.0	4273	2.01	SRV090	90L4
	56.0	214.88	25.0	4603	1.55		
	46.7	245.57	30.0	4891	1.69		
	35.0	315.15	40.0	5383	1.15		
	28.0	383.71	50.0	5799	0.88		
	23.3	435.89	60.0	6163	0.70	SRV090	100L6
	90.0	134.30	10.0	3929	2.72		
	60.0	195.85	15.0	4498	2.09		
	45.0	255.16	20.0	4951	1.55		
	36.0	313.36	25.0	5333	1.19		
	30.0	358.13	30.0	5667	1.27	SRV110	90S2
	46.7	230.22	60.0	6181	2.05		
	35.0	282.41	80.0	6803	1.41		
	28.0	322.31	100.0	7328	1.19		
	35.0	327.43	40.0	6803	2.12		
	28.0	393.94	50.0	7328	1.67		
	23.3	460.45	60.0	7787	1.35		
	17.5	564.81	80.0	8571	0.91		
45.0	259.64	20.0	6256	2.78	SRV110	100L6	
36.0	320.82	25.0	6739	2.34			
30.0	362.60	30.0	7161	2.34			
22.5	477.50	40.0	7882	1.64			
18.0	574.49	50.0	8491	1.31			SRV050-110
15.0	671.48	60.0	9023	1.03			
9.3	847.00	300.0	10320	1.40			
7.0	1105.00	400.0	10320	1.00			
5.6	1279.00	500.0	10320	0.80			

PERFORMANCE PARAMETER

P _{1n} [Kw]	n ₂ [1/min]	M _{2n} [Nm]	i	Fr ₂ [N]	f _s	MODELS	MOTOR	
1.5	17.5	564.81	80.0	11210	1.53	SRV130	90L4	
	14.0	665.09	100.0	12076	1.12			
	22.5	471.53	40.0	10309	2.33			
	SRV130	18.0	578.22	50.0	11105	1.76	100L6	
		15.0	649.10	60.0	11801	1.42		
		11.3	823.69	80.0	12989	1.03		
		9.3	878.00	300.0	13500	1.90		
		7.0	1105.00	400.0	13500	1.40		
		5.6	1305.00	500.0	13500	1.10		
	SRV063-130	4.7	1737.00	300.0	13500	1.00	90S2	
		3.5	2210.00	400.0	13500	0.70		
	SRV063-130	9.3	1026.00	150.0	18000	2.30	90L4	
		7.0	1317.00	200.0	18000	1.80		
		5.6	1602.00	250.0	18000	1.30		
		4.7	1860.00	300.0	18000	1.30		
		3.5	2208.00	400.0	18000	1.20		
		2.8	2582.00	500.0	18000	0.90		
		2.3	3057.00	600.0	18000	0.90		
SRV063		373.3	50.65	7.5	1873	1.82		90L2
		280.0	66.03	10.0	2061	1.45		
		186.7	96.80	15.0	2359	1.04		
SRV075		373.3	50.65	7.5	2210	2.53		90L2
		280.0	66.26	10.0	2433	2.13		
	186.7	97.47	15.0	2785	1.54			
	140.0	125.46	20.0	3065	1.28			
	112.0	148.76	25.0	3302	0.99			
	93.3	175.58	30.0	3509	0.97			
	186.7	101.30	7.5	2785	1.83			
	140.0	132.51	10.0	3065	1.43			
	93.3	194.94	15.0	3509	1.02			
	140.0	128.31	20.0	3391	2.01			
SRV090	112.0	157.58	25.0	3653	1.56	90L2		
	93.3	180.09	30.0	3882	1.73			
	70.0	231.11	40.0	4273	1.21			
	56.0	281.38	50.0	4603	0.93			
	186.7	101.86	7.5	3081	2.82			
	140.0	135.06	10.0	3391	2.27			
	93.3	196.97	15.0	3882	1.81			
	70.0	256.62	20.0	4273	1.37			
SRV090	56.0	315.15	25.0	4603	1.05	100LA4		
	46.7	360.17	30.0	4891	1.15			
	120.0	148.55	7.5	3570	2.26			
	90.0	196.97	10.0	3929	1.85			
	60.0	287.25	15.0	4498	1.43			
	45.0	374.24	20.0	4951	1.06			

PERFORMANCE PARAMETER

P _{1n} [Kw]	n ₂ [1/min]	M _{2n} [Nm]	i	Fr ₂ [N]	f _s	MODELS	MOTOR		
2.2	112.0	161.33	25.0	4616	3.09	SRV110	90L2		
	93.3	182.34	30.0	4905	3.03				
	70.0	240.11	40.0	5399	2.16				
	56.0	288.89	50.0	5816	1.72				
	46.7	337.66	60.0	6181	1.40				
	70.0	261.12	20.0	5399	2.49				
	SRV110	56.0	322.65	25.0	5816	2.06	100LA4		
		46.7	364.67	30.0	6181	1.99			
		35.0	480.23	40.0	6803	1.44			
		28.0	577.78	50.0	7328	1.14			
		23.3	675.32	60.0	7787	0.92			
		90.0	194.78	10.0	4965	3.60			
		60.0	288.89	15.0	5684	2.59			
		45.0	380.81	20.0	6256	1.90			
		36.0	470.54	25.0	6739	1.60			
		30.0	531.82	30.0	7161	1.59			
		35.0	414.20	80.0	8897	1.46			
		28.0	487.73	100.0	9584	1.08			
	SRV130	35.0	474.23	40.0	8897	2.20	90L2		
		28.0	581.53	50.0	9584	1.67			
		23.3	652.81	60.0	10185	1.42			
		17.5	828.39	80.0	11210	1.04			
		36.0	465.07	25.0	8814	2.22			
		30.0	531.82	30.0	9366	2.17			
22.5		691.58	40.0	10309	1.59				
18.0		848.06	50.0	11105	1.20				
15.0		952.02	60.0	11801	0.97				
28.0		577.78	50.0	13103	2.77				
23.3		666.32	60.0	13924	2.16				
17.5		828.39	80.0	15325	1.57				
SRV150	14.0	975.46	100.0	16508	1.18	100LA4			
	373.3	69.07	7.5	2210	1.85				
	280.0	90.35	10.0	2433	1.56				
	186.7	138.13	7.5	2785	1.34				
	140.0	180.70	10.0	3065	1.05				
	93.3	265.83	15.0	3509	0.74				
	373.3	69.45	7.5	2446	2.98				
	280.0	92.09	10.0	2692	2.56				
	186.7	138.90	7.5	3081	2.07				
	140.0	184.18	10.0	3391	1.66				
	93.3	268.59	15.0	3882	1.33				
	70.0	349.94	20.0	4273	1.00				
SRV090	56.0	429.75	25.0	4603	0.77	100LB4			
	46.7	491.14	30.0	4891	0.84				
	93.3	270.13	15.0	4905	2.44				
	70.0	356.08	20.0	5399	1.82				
	56.0	439.98	25.0	5816	1.51				
	46.7	497.28	30.0	6181	1.46				
	35.0	654.86	40.0	6803	1.06				
	28.0	787.88	50.0	7328	0.83				
	3	70.0	356.08	20.0	5399		1.82	SRV110	100LB4
		56.0	439.98	25.0	5816		1.51		
		46.7	497.28	30.0	6181		1.46		
		35.0	654.86	40.0	6803		1.06		
28.0		787.88	50.0	7328	0.83				

PERFORMANCE PARAMETER

P _{1n} [Kw]	n ₂ [1/min]	M _{2n} [Nm]	i	Fr ₂ [N]	f _s	MODELS	MOTOR
3	120.0	201.45	7.5	4511	3.20	SRV110	132S6
	90.0	265.61	10.0	1965	2.64		
	60.0	393.94	15.0	5684	1.90		
	45.0	519.28	20.0	6256	1.39		
	56.0	434.87	25.0	7607	2.14		
	46.7	497.28	30.0	8084	2.11	SRV130	100LB4
	35.0	646.67	40.0	8897	1.61		
	28.0	792.99	50.0	9584	1.23		
	23.3	890.20	60.0	10185	1.04		
	17.5	1129.63	80.0	11270	0.76		
	90.0	265.61	10.0	6494	3.58	SRV130	132S6
	60.0	389.46	15.0	7434	2.71		
	45.0	519.28	20.0	8182	1.97		
	36.0	634.18	25.0	8814	1.63		
	30.0	725.20	30.0	9366	1.59		
	22.5	943.06	40.0	10309	1.17	SRV150	100LB4
	28.0	787.88	50.0	13103	2.03		
	23.3	908.61	60.0	13924	1.58		
	17.5	1129.63	80.0	15325	1.15		
	14.0	1330.18	100.0	16508	0.86		
4	373.3	92.09	7.5	2210	1.39	SRV075	112M2
	280.0	120.47	10.0	2433	1.17	SRV075	112M4
	186.7	184.18	7.5	2785	1.00		
	140.0	240.93	10.0	3065	0.79	SRV090	112M2
	373.3	92.60	7.5	2446	2.24		
	280.0	122.79	10.0	2692	1.92	SRV090	112M4
	186.7	185.20	7.5	3081	1.55		
	140.0	245.57	10.0	3391	1.25		
	93.3	358.13	15.0	3882	1.00		
	70.0	466.59	20.0	4273	0.75		
	140.0	242.84	10.0	4285	2.42	SRV110	112M4
	93.3	360.17	15.0	4905	1.83		
	70.0	474.77	20.0	5399	1.37		
	56.0	586.64	25.0	5816	1.13		
	46.7	663.04	30.0	6181	1.10		
	120.0	268.59	7.5	4511	2.40	SRV110	132MA6
	90.0	354.15	10.0	4965	1.98		
	60.0	525.25	15.0	5684	1.43		
	56.0	579.82	25.0	7607	1.61		
	46.7	663.04	30.0	8084	1.58		
35.0	862.23	40.0	8897	1.21	SRV130	112M4	
28.0	1057.32	50.0	9584	0.92			
23.3	1186.93	60.0	10185	0.78			
120.0	271.58	7.5	5901	3.21			
90.0	354.15	10.0	6494	2.69			
60.0	519.28	15.0	7434	2.03	SRV130	132MA6	
45.0	692.38	20.0	8182	1.48			
36.0	845.57	25.0	8814	1.22			

PERFORMANCE PARAMETER

P _{1n} [Kw]	n ₂ [1/min]	M _{2n} [Nm]	i	Fr ₂ [N]	f _s	MODELS	MOTOR
4	28.0	1050.50	50.0	13103	1.52	SRV150	112M4
	23.3	1211.49	60.0	13924	1.19		
	17.5	1506.17	80.0	15325	0.86		
5.5	186.7	253.25	7.5	3893	2.16	SRV110	132S4
	140.0	333.91	10.0	4285	1.76		
	93.3	495.24	15.0	4905	1.33		
	70.0	652.81	20.0	5399	0.99		
	140.0	333.91	10.0	5605	2.46		
	93.3	489.61	15.0	6416	1.87	SRV130	132S4
	70.0	652.81	20.0	7062	1.39		
	56.0	797.25	25.0	7607	1.17		
	46.7	911.68	30.0	8084	1.15		
	35.0	1185.56	40.0	8897	0.88		
7.5	70.0	652.06	20.0	9654	2.30	SRV150	132S4
	56.0	797.25	25.0	10400	1.73		
	46.7	945.45	30.0	11051	1.48		
	35.0	1185.56	40.0	12163	1.52		
	28.0	1444.44	50.0	13103	1.11		
	23.3	1665.79	60.0	13924	0.86	SRV110	132M4
	186.7	345.33	7.5	3893	1.58		
	140.0	455.33	10.0	4285	1.29		
	93.3	675.32	15.0	4905	0.98		
	186.7	349.17	7.5	5092	2.12		
11	140.0	455.33	10.0	5605	1.80	SRV130	132M4
	93.3	667.65	15.0	6416	1.37		
	70.0	890.20	20.0	7062	1.02		
	56.0	1087.17	25.0	7607	0.86		
	46.7	1243.21	30.0	8084	0.84		
	35.0	1616.68	40.0	8897	0.65	SRV150	132M4
	70.0	889.17	20.0	8654	1.69		
	56.0	1087.17	25.0	10400	1.27		
	46.7	1289.25	30.0	11051	1.09		
	35.0	1616.68	40.0	12163	1.11		
15	186.7	512.12	7.5	6962	2.73	SRV150	160M4
	140.0	675.32	10.0	7663	2.19		
	93.3	984.84	15.0	8771	1.47		
15	70.0	1304.12	20.0	9654	1.15	SRV150	160L4
	56.0	1594.51	25.0	10400	0.87		
	186.7	698.34	7.5	6962	2.00		
	140.0	920.89	10.0	7663	1.61		
15	93.3	1342.97	15.0	8771	1.08	SRV150	160L4
	70.0	1778.35	20.0	9654	0.84		

SRVL ...(n1=2800)

M _{2n} [Nm]	i	P _{1n} [Kw]	n ₂ [1/min]	F _{r2} [N]	F _{r1} [N]	MODELS
13.00	7.50	0.68	373.3	542	125	SRVL030
13.00	10.00	0.51	280	597	140	
13.00	15.00	0.35	186.7	683	140	
12.00	20.00	0.25	140	752	146	
15.00	25.00	0.27	112	810	210	
15.00	30.00	0.23	93.3	861	210	
14.00	40.00	0.19	70	948	127	
12.00	50.00	0.15	56	1021	128	
12.00	60.00	0.15	46.7	1085	126	
11.00	80.00	0.11	35	1194	130	
27.00	7.50	1.22	373.3	1044	233	SRVL040
30.00	10.00	1.03	280	1149	272	
31.00	15.00	0.74	186.7	1315	291	
29.00	20.00	0.53	140	1447	204	
28.00	25.00	0.44	112	1559	236	
34.00	30.00	0.46	93.3	1657	350	
31.00	40.00	0.35	70	1824	350	
30.00	50.00	0.29	56	1964	350	
27.00	60.00	0.23	46.7	2087	350	
25.00	80.00	0.19	35	2298	350	
22.00	100.00	0.14	28	2475	350	
52.00	7.50	2.32	373.3	1433	324	SRVL050
53.00	10.00	1.79	280	1577	378	
57.00	15.00	1.33	186.7	1805	399	
53.00	20.00	0.97	140	1987	417	
51.00	25.00	0.78	112	2140	482	
65.00	30.00	0.87	93.3	2274	490	
59.00	40.00	0.63	70	2503	490	
53.00	50.00	0.49	56	2696	490	
50.00	60.00	0.42	46.7	2865	490	
45.00	80.00	0.30	35	3153	490	
40.00	100.00	0.28	28	3397	490	
92.00	7.50	4.00	373.3	1873	395	SRVL063
96.00	10.00	3.20	280	2064	463	
101.00	15.00	2.30	186.7	2359	492	
97.00	20.00	1.69	140	2597	538	
91.00	25.00	1.33	112	2797	593	
120.00	30.00	1.52	93.3	2973	700	
113.00	40.00	1.16	70	3272	700	
102.00	50.00	0.85	56	3524	700	
96.00	60.00	0.71	46.7	3745	700	
86.00	80.00	0.53	35	4122	700	
74.00	100.00	0.39	28	4440	700	
128.00	7.50	5.56	373.3	2210	560	SRVL075
141.00	10.00	4.68	280	2433	703	
150.00	15.00	3.39	186.7	2785	727	
160.00	20.00	2.81	140	3065	872	
147.00	25.00	2.17	112	3302	980	
170.00	30.00	2.13	93.3	3509	980	
166.00	40.00	1.62	70	3862	980	
149.00	50.00	1.18	56	4160	980	
143.00	60.00	1.04	46.7	4421	980	
130.00	80.00	0.77	35	4865	980	
123.00	100.00	0.63	28	5241	980	

SRVL ...(n1=2800)

M _{2n} [Nm]	i	P _{1n} [Kw]	n ₂ [1/min]	F _{r2} [N]	F _{r1} [N]	MODELS
207.00	7.50	8.94	373.3	2446	715	SRVL090
236.00	10.00	7.69	280	2692	900	
270.00	15.00	6.03	186.7	3081	1034	
258.00	20.00	4.42	140	3391	1120	
246.00	25.00	3.43	112	3653	1270	
311.00	30.00	3.80	93.3	3882	1270	
280.00	40.00	2.67	70	4273	1270	
263.00	50.00	2.06	56	4603	1270	
242.00	60.00	1.67	46.7	4891	1270	
229.00	80.00	1.29	35	5383	1270	
203.00	100.00	0.99	28	5799	1270	
386.00	7.50	16.77	373.3	3090	950	SRVL110
433.00	10.00	14.26	280	3401	1194	
482.00	15.00	10.71	186.7	3893	1337	
475.00	20.00	8.00	140	4285	1485	
499.00	25.00	6.80	112	4616	1700	
552.00	30.00	6.66	93.3	4905	1700	
519.00	40.00	4.76	70	5399	1700	
498.00	50.00	3.79	56	5816	1700	
472.00	60.00	3.08	46.7	6181	1700	
398.00	80.00	2.11	35	6803	1700	
382.00	100.00	1.78	28	7328	1700	
514.00	7.50	22.08	373.3	4042	1190	SRVL130
574.00	10.00	18.91	280	4449	1493	
669.00	15.00	15.03	186.7	5092	1725	
660.00	20.00	11.12	140	5605	1912	
660.00	25.00	9.11	112	6038	2100	
774.00	30.00	9.34	93.3	6416	2100	
727.00	40.00	6.75	70	7062	2100	
696.00	50.00	5.27	56	7607	2100	
638.00	60.00	4.30	46.7	8084	2100	
606.00	80.00	3.22	35	8897	2100	
525.00	100.00	2.37	28	9584	2100	
840.00	7.50	36.09	373.3	5526	1550	SRVL150
890.00	10.00	28.99	280	6082	1848	
910.00	15.00	20.33	186.7	6962	1889	
980.00	20.00	16.53	140	7663	2289	
890.00	25.00	12.28	112	8254	2494	
920.00	30.00	10.70	93.3	8771	2800	
1200.00	40.00	11.13	70	9654	2800	
1100.00	50.00	8.38	56	10400	2800	
990.00	60.00	6.54	46.7	11051	2800	
920.00	80.00	4.89	35	12163	2800	
810.00	100.00	3.65	28	13103	2800	

SRVL ...(n1=1400)

M _{2n} [Nm]	i	P _{1n} [Kw]	n ₂ [1/min]	F _{r2} [N]	F _{r1} [N]	MODELS
18.00	7.50	0.47	186.7	683	150	SRVL030
18.00	10.00	0.35	140	752	169	
18.00	15.00	0.24	93.3	861	169	
18.00	20.00	0.19	70	948	190	
20.00	25.00	0.18	56	1021	210	
20.00	30.00	0.15	46.7	1085	210	
18.00	40.00	0.12	35	1194	210	
17.00	50.00	0.11	28	1286	210	
16.00	60.00	0.10	23.3	1367	210	
12.00	80.00	0.06	17.5	1504	210	
40.00	7.50	0.90	186.7	1315	294	SRVL040
40.00	10.00	0.69	140	1447	331	
39.00	15.00	0.46	93.3	1657	331	
39.00	20.00	0.36	70	1824	350	
38.00	25.00	0.30	56	1964	350	
44.00	30.00	0.30	46.7	2087	350	
41.00	40.00	0.23	35	2298	350	
37.00	50.00	0.18	28	2475	350	
35.00	60.00	0.15	23.3	2630	350	
33.00	80.00	0.13	17.5	2895	350	
29.00	100.00	0.09	14	3118	350	SRVL050
71.00	7.50	1.58	186.7	1805	401	
70.00	10.00	1.18	140	1987	490	
73.00	15.00	0.85	93.3	2274	490	
72.00	20.00	0.66	70	2503	490	
69.00	25.00	0.53	56	2696	490	
83.00	30.00	0.55	46.7	2865	490	
77.00	40.00	0.41	35	3153	490	
73.00	50.00	0.34	28	3397	490	
68.00	60.00	0.29	23.3	3610	490	
64.00	80.00	0.21	17.5	3973	490	SRVL063
52.00	100.00	0.18	14	4280	490	
126.00	7.50	2.74	186.7	2359	500	
129.00	10.00	2.15	140	2597	571	
134.00	15.00	1.52	93.3	2973	615	
131.00	20.00	1.14	70	3272	667	
131.00	25.00	0.96	56	3524	700	
164.00	30.00	1.04	46.7	3745	700	
143.00	40.00	0.73	35	4122	700	
133.00	50.00	0.56	28	4440	700	
130.00	60.00	0.48	23.3	4719	700	SRVL075
119.00	80.00	0.36	17.5	5193	700	
118.00	100.00	0.31	14	5595	700	
185.00	7.50	4.02	186.7	2785	700	
190.00	10.00	3.15	140	3065	830	
198.00	15.00	2.23	93.3	3509	851	
210.00	20.00	1.84	70	3862	980	
202.00	25.00	1.49	56	4160	980	
233.00	30.00	1.46	46.7	4421	980	
216.00	40.00	1.06	35	4865	980	
206.00	50.00	0.82	28	5241	980	
197.00	60.00	0.71	23.3	5569	980	
187.00	80.00	0.55	17.5	6130	980	
180.00	100.00	0.46	14	6603	980	

SRVL ...(n1=1400)

M _{2n} [Nm]	i	P _{1n} [Kw]	n ₂ [1/min]	F _{r2} [N]	F _{r1} [N]	MODELS
287.00	7.50	6.20	186.7	3081	900	SRVL090
306.00	10.00	4.98	140	3391	1082	
357.00	15.00	3.99	93.3	3882	1257	
351.00	20.00	3.01	70	4273	1270	
332.00	25.00	2.32	56	4603	1270	
415.00	30.00	2.53	46.7	4891	1270	
363.00	40.00	1.73	35	5383	1270	
339.00	50.00	1.33	28	5799	1270	
307.00	60.00	1.06	23.3	6163	1270	
285.00	80.00	0.80	17.5	6783	1270	
270.00	100.00	0.66	14	7306	1270	SRVL110
546.00	7.50	11.86	186.7	3893	1200	
588.00	10.00	9.69	140	4285	1463	
660.00	15.00	7.33	93.3	4905	1604	
649.00	20.00	5.47	70	5399	1700	
665.00	25.00	4.53	56	5816	1700	
727.00	30.00	4.39	46.7	6181	1700	
693.00	40.00	3.17	35	6803	1700	
656.00	50.00	2.50	28	7328	1700	
620.00	60.00	2.02	23.3	7787	1700	
512.00	80.00	1.36	17.5	8571	1700	SRVL130
473.00	100.00	1.10	14	9232	1700	
741.00	7.50	15.92	186.7	5092	1500	
820.00	10.00	13.51	140	5605	1845	
917.00	15.00	10.30	93.3	6416	2070	
905.00	20.00	7.62	70	7062	2100	
931.00	25.00	6.42	56	7607	2100	
1047.00	30.00	6.32	46.7	8084	2100	
1043.00	40.00	4.84	35	8897	2100	
972.00	50.00	3.68	28	9584	2100	
928.00	60.00	3.13	23.3	10185	2100	SRVL150
863.00	80.00	2.29	17.5	11210	2100	
742.00	100.00	1.67	14	12076	2100	
1400.00	7.50	30.07	120	8067	2270	
1480.00	10.00	24.11	90	8878	2700	
1450.00	15.00	16.20	60	10163	2645	
1500.00	20.00	12.65	45	11186	2800	
1380.00	25.00	9.52	36	12050	2800	
1400.00	30.00	8.14	30	12805	2800	
1800.00	40.00	8.35	22.5	14094	2800	
1600.00	50.00	6.09	18	15182	2800	
1440.00	60.00	4.75	15	16133	2800	
1300.00	80.00	3.45	11.6	17757	2800	
1150.00	100.00	2.59	9	18000	2800	

SRVL ...(n1=900)

M _{2n} [Nm]	i	P _{1n} [Kw]	n ₂ [1/min]	F _{r2} [N]	F _{r1} [N]	MODELS
20.00	7.50	0.37	120	792	175	SRVL030
20.00	10.00	0.28	90	871	197	
20.00	15.00	0.19	60	997	197	
19.00	20.00	0.14	45	1098	210	
23.00	25.00	0.15	36	1183	210	
21.00	30.00	0.12	30	1257	210	
21.00	40.00	0.10	22.5	1383	210	
19.00	50.00	0.09	18	1490	210	
18.00	60.00	0.08	15	1583	210	
14.00	80.00	0.05	11.3	1743	210	
43.00	7.50	0.69	120	1524	319	SRVL040
44.00	10.00	0.54	90	1677	350	
45.00	15.00	0.38	60	1920	350	
44.00	20.00	0.29	45	2113	350	
44.00	25.00	0.24	36	2276	350	
48.00	30.00	0.23	30	2419	350	
44.00	40.00	0.18	22.5	2662	350	
43.00	50.00	0.15	18	2868	350	
38.00	60.00	0.12	15	3047	350	
37.00	80.00	0.10	11.3	3354	350	
33.00	100.00	0.07	9	3490	350	SRVL050
81.00	7.50	1.29	120	2091	448	
83.00	10.00	1.00	90	2302	490	
84.00	15.00	0.70	60	2635	490	
76.00	20.00	0.50	45	2900	490	
76.00	25.00	0.41	36	3124	490	
91.00	30.00	0.43	30	3320	490	
83.00	40.00	0.31	22.5	3654	490	
78.00	50.00	0.26	18	3936	490	
74.00	60.00	0.22	15	4183	490	
66.00	80.00	0.16	11.3	4604	490	SRVL063
56.00	100.00	0.14	9	4840	490	
151.00	7.50	2.34	120	2734	580	
152.00	10.00	1.81	90	3009	661	
153.00	15.00	1.24	60	3444	670	
149.00	20.00	0.93	45	3791	700	
135.00	25.00	0.71	36	4084	700	
176.00	30.00	0.80	30	4339	700	
160.00	40.00	0.59	22.5	4776	700	
146.00	50.00	0.44	18	5145	700	
137.00	60.00	0.36	15	5467	700	SRVL075
127.00	80.00	0.28	11.3	6018	700	
125.00	100.00	0.24	9	6270	700	
212.00	7.50	3.29	120	3227	810	
223.00	10.00	2.64	90	3551	975	
232.00	15.00	1.87	60	4065	980	
232.00	20.00	1.45	45	4474	980	
219.00	25.00	1.16	36	4820	980	
249.00	30.00	1.11	30	5122	980	
36.00	40.00	0.13	22.5	5637	980	
217.00	50.00	0.61	18	6073	980	
206.00	60.00	0.53	15	6453	980	
200.00	80.00	0.42	11.3	7103	980	
191.00	100.00	0.35	9	7380	980	

SRVL ...(n1=900)

M _{2n} [Nm]	i	P _{1n} [Kw]	n ₂ [1/min]	F _{r2} [N]	F _{r1} [N]	MODELS
336.00	7.50	5.18	120	3570	1040	SRVL090
365.00	10.00	4.25	90	3929	1270	
410.00	15.00	3.27	60	4498	1270	
395.00	20.00	2.42	45	4951	1270	
372.00	25.00	1.85	36	5333	1270	
454.00	30.00	1.98	30	5667	1270	
422.00	40.00	1.43	22.5	6238	1270	
391.00	50.00	1.09	18	6719	1270	
350.00	60.00	0.86	15	7140	1270	
314.00	80.00	0.63	11.3	7859	1270	
281.00	100.00	0.49	9	8180	1270	SRVL110
644.00	7.50	9.99	120	4511	1390	
702.00	10.00	8.26	90	4965	1700	
749.00	15.00	5.94	60	5684	1700	
722.00	20.00	4.34	45	6256	1700	
752.00	25.00	3.66	36	6739	1700	
847.00	30.00	3.65	30	7161	1700	
785.00	40.00	2.57	22.5	7882	1700	
753.00	50.00	2.05	18	8491	1700	
693.00	60.00	1.61	15	9023	1700	
586.00	80.00	1.11	11.3	9931	1700	SRVL130
526.00	100.00	0.87	9	10320	1700	
871.00	7.50	13.36	120	5901	1740	
951.00	10.00	11.19	90	6494	2100	
1055.00	15.00	8.47	60	7434	2100	
1022.00	20.00	6.15	45	8182	2100	
1031.00	25.00	5.08	36	8814	2100	
1152.00	30.00	4.96	30	9366	2100	
1099.00	40.00	3.64	22.5	10309	2100	
1017.00	50.00	2.75	18	11105	2100	
923.00	60.00	2.22	15	11801	2100	SRVL150
852.00	80.00	1.62	11.3	12989	2100	
751.00	100.00	1.21	9	13500	2100	
1200.00	7.50	18.41	186.7	6962	1950	
1240.00	10.00	14.43	140	7663	2267	
1250.00	15.00	9.97	93.3	8771	2800	
1300.00	20.00	7.83	70	9654	2800	
1200.00	25.00	5.91	56	10400	2800	
1200.00	30.00	4.99	46.7	11051	2800	
1550.00	40.00	5.14	35	12163	2800	
1400.00	50.00	3.81	28	13103	2800	
1260.00	60.00	2.97	23.3	13924	2800	
1150.00	80.00	2.18	17.5	15325	2800	
1000.00	100.00	1.61	14	16508	2800	

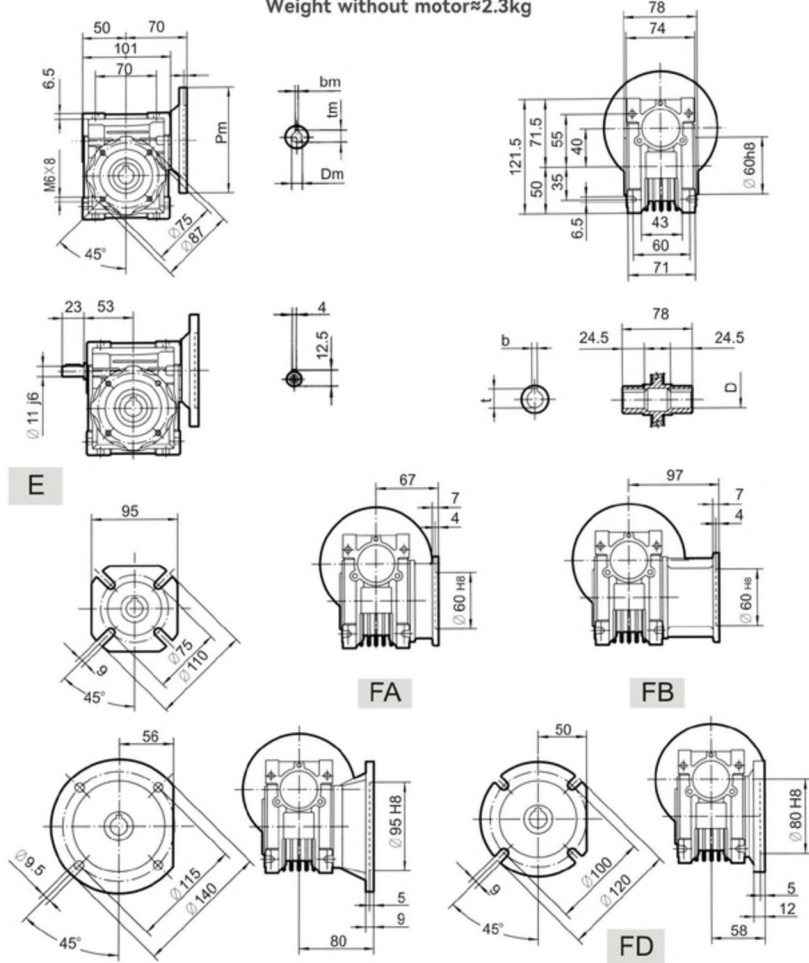
SRVL ...(n1=500)

M _{2n} [Nm]	i	P _{1n} [Kw]	n ₂ [1/min]	F _{r2} [N]	F _{r1} [N]	MODELS
24.00	7.50	0.26	66.7	963	210	SRVL030
24.00	10.00	0.20	50	1060	210	
24.00	15.00	0.14	33.3	1213	210	
23.00	20.00	0.10	25	1336	210	
29.00	25.00	0.11	20	1439	210	
26.00	30.00	0.08	16.7	1529	210	
24.00	40.00	0.07	12.5	1683	210	
22.00	50.00	0.06	10	1813	210	
20.00	60.00	0.05	8.3	1830	210	
17.00	80.00	0.04	6.3	1830	210	
53.00	7.50	0.50	66.7	1853	350	SRVL040
53.00	10.00	0.38	50	2040	350	
56.00	15.00	0.28	33.3	2335	350	
52.00	20.00	0.20	25	2570	350	
49.00	25.00	0.16	20	2769	350	
58.00	30.00	0.17	16.7	2942	350	
53.00	40.00	0.12	12.5	3238	350	
52.00	50.00	0.11	10	3488	350	
46.00	60.00	0.08	8.3	3490	350	
40.00	80.00	0.06	6.3	3490	350	
38.00	100.00	0.05	5	3490	350	SRVL050
102.00	7.50	0.95	66.7	2544	490	
104.00	10.00	0.74	50	2800	490	
102.00	15.00	0.50	33.3	3205	490	
92.00	20.00	0.35	25	3528	490	
94.00	25.00	0.30	20	3800	490	
106.00	30.00	0.30	16.7	4038	490	
99.00	40.00	0.22	12.5	4445	490	
89.00	50.00	0.17	10	4788	490	
82.00	60.00	0.15	8.3	4840	490	
75.00	80.00	0.10	6.3	4840	490	SRVL063
69.00	100.00	0.10	5	4840	490	
180.00	7.50	1.64	66.7	3325	700	
188.00	10.00	1.32	50	3660	700	
188.00	15.00	0.90	33.3	4190	700	
178.00	20.00	0.65	25	4611	700	
163.00	25.00	0.50	20	4967	700	
204.00	30.00	0.54	16.7	5279	700	
186.00	40.00	0.40	12.5	5810	700	
174.00	50.00	0.31	10	6259	700	
162.00	60.00	0.25	8.3	6270	700	SRVL075
138.00	80.00	0.18	6.3	6270	700	
131.00	100.00	0.15	5	6270	700	
253.00	7.50	2.31	66.7	3925	980	
266.00	10.00	1.86	50	4320	980	
268.00	15.00	1.27	33.3	4945	980	
281.00	20.00	1.04	25	5443	980	
251.00	25.00	0.78	20	5863	980	
299.00	30.00	0.79	16.7	6231	980	
279.00	40.00	0.57	12.5	6858	980	
248.00	50.00	0.41	10	7380	980	
234.00	60.00	0.36	8.3	7380	980	
220.00	80.00	0.27	6.3	7380	980	
206.00	100.00	0.22	5	7380	980	

SRVL ...(n1=500)

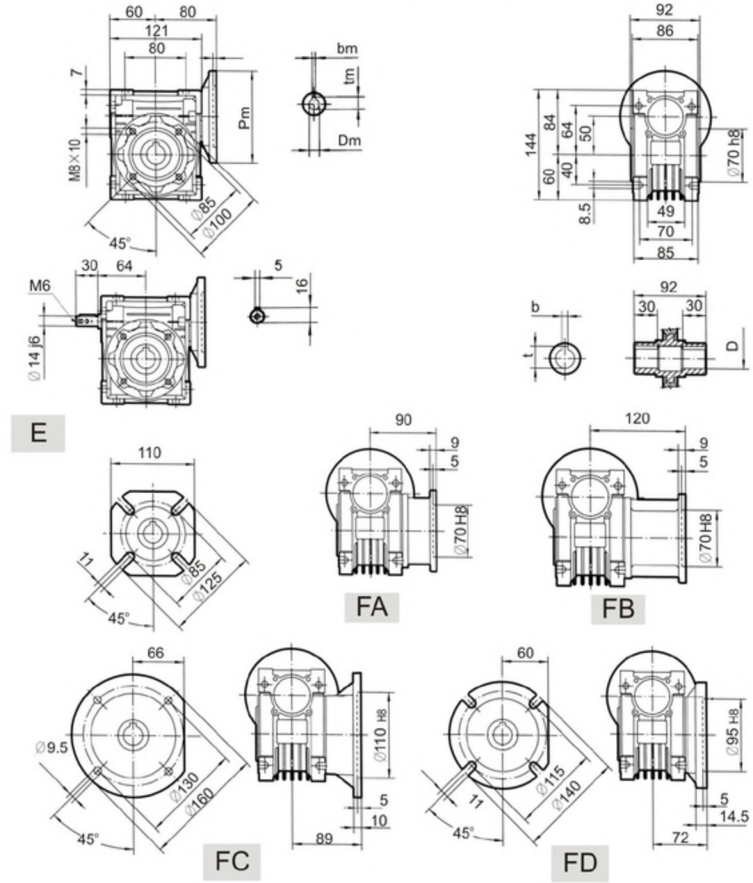
M _{2n} [Nm]	i	P _{1n} [Kw]	n ₂ [1/min]	F _{r2} [N]	F _{r1} [N]	MODELS
406.00	7.50	3.68	66.7	4343	1270	SRVL090
433.00	10.00	2.96	50	4780	1270	
488.00	15.00	2.29	33.3	5472	1270	
477.00	20.00	1.72	25	6022	1270	
430.00	25.00	1.26	20	6487	1270	
568.00	30.00	1.46	16.7	6894	1270	
486.00	40.00	0.97	12.5	7588	1270	
451.00	50.00	0.74	10	8174	1270	
407.00	60.00	0.59	8.3	8180	1270	
368.00	80.00	0.43	6.3	8180	1270	
328.00	100.00	0.34	5	8180	1270	SRVL110
788.00	7.50	7.19	66.7	5488	1700	
844.00	10.00	5.84	50	6040	1700	
906.00	15.00	4.23	33.3	6914	1700	
856.00	20.00	3.03	25	7610	1700	
894.00	25.00	2.56	20	8198	1700	
988.00	30.00	2.50	16.7	8711	1700	
909.00	40.00	1.75	12.5	9588	1700	
882.00	50.00	1.41	10	10320	1700	
810.00	60.00	1.11	8.3	10320	1700	
668.00	80.00	0.75	6.3	10320	1700	SRVL130
609.00	100.00	0.60	5	10320	1700	
1071.00	7.50	9.67	66.7	7178	2100	
1153.00	10.00	7.98	50	7900	2100	
1293.00	15.00	6.10	33.3	9043	2100	
1222.00	20.00	4.33	25	9953	2100	
1192.00	25.00	3.46	20	10722	2100	
1378.00	30.00	3.49	16.7	11394	2100	
1284.00	40.00	2.50	12.5	12540	2100	
1216.00	50.00	1.93	10	13500	2100	
1105.00	60.00	1.56	8.3	13500	2100	SRVL150
967.00	80.00	1.08	6.3	13500	2100	
877.00	100.00	0.83	5	13500	2100	
1700.00	7.50	15.34	66.7	9812	2800	
1780.00	10.00	12.18	50	10800	2800	
1730.00	15.00	8.12	33.3	12363	2800	
1820.00	20.00	6.45	25	13607	2800	
1630.00	25.00	4.72	20	14658	2800	
1670.00	30.00	4.08	16.7	15576	2800	
2120.00	40.00	4.13	12.5	17144	2800	
1870.00	50.00	2.99	10	18000	2800	
1680.00	60.00	2.33	8.3	18000	2800	
1530.00	80.00	1.71	6.3	18000	2800	
1350.00	100.00	1.28	5	18000	2800	

Weight without motor ≈ 2.3kg



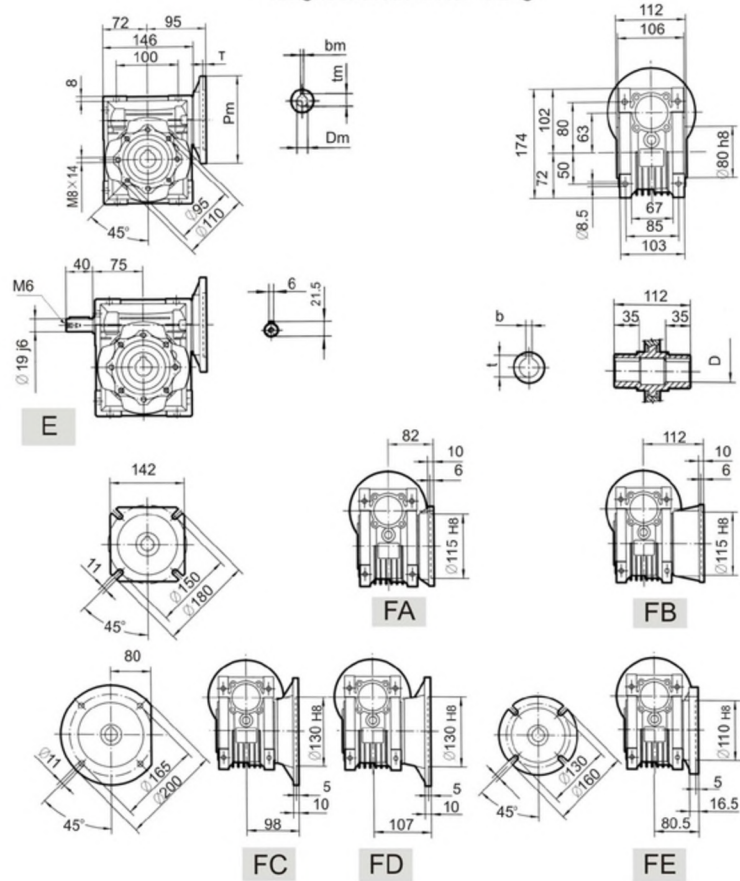
PAM IEC	P _M	D _M E8	b _m	t _m	D _{F7}	b	t
71B5	160	14	5	16.3	18	6	20.8
63B5	140	11	4	12.8	19	6*	21.8*
56B5	120	9	3	10.4	*Only on request		
71B14	105	14	5	16.3			
63B14	90	11	4	12.8			

Weight without motor ≈ 3.5kg



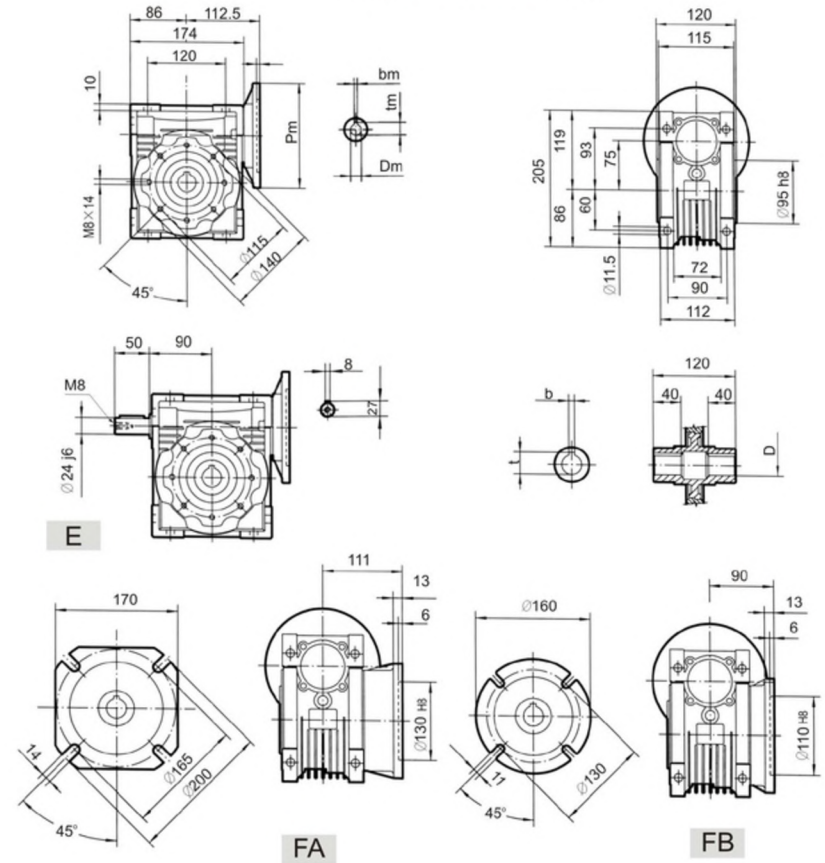
PAM IEC	P _M	D _M E8	b _m	t _m	D _{F7}	b	t
80B5	200	19	6	21.8	25	8	28.3
71B5	160	14	5	16.3	24*	8*	27.3*
63B5	140	11	4	12.8	*Only on request		
80B14	120	19	6	21.8			
71B14	105	14	5	16.3			

Weight without motor≈6.2kg



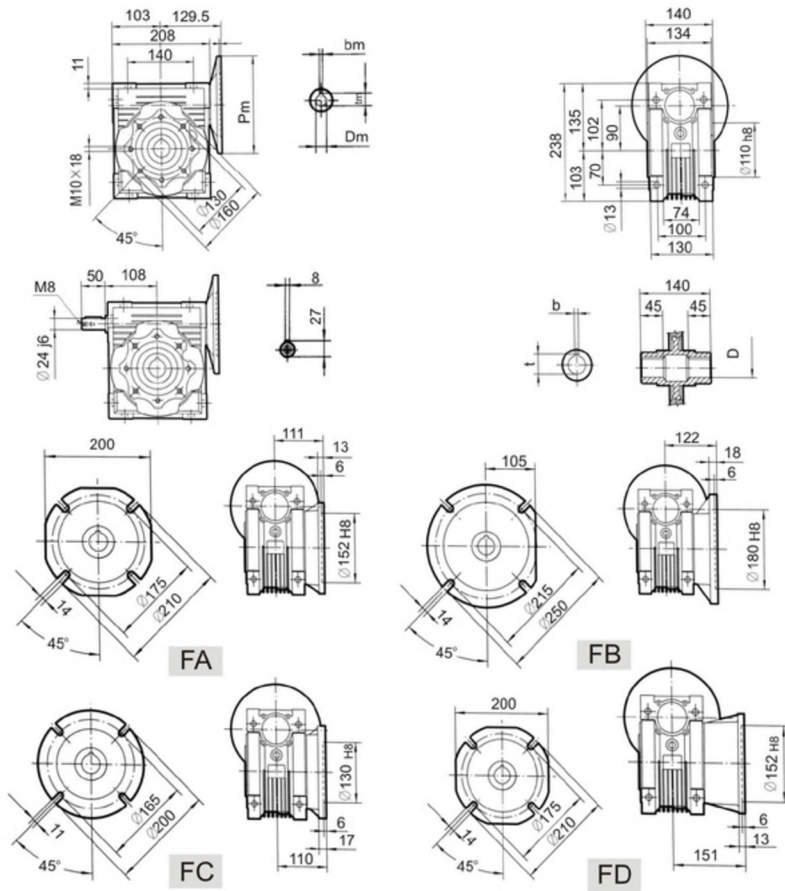
PAM IEC	Pm	DmE8	bm	tm	Df7	b	t
90B5	200	24	8	27.3	25	8	28.3
80B5	200	19	6	21.8	28*	8*	31.3*
71B5	160	14	5	16.3	*Only on request		
90B14	140	24	8	27.3			
80B14	120	19	6	21.8			
71B14	105	14	5	16.3			

Weight without motor≈9kg



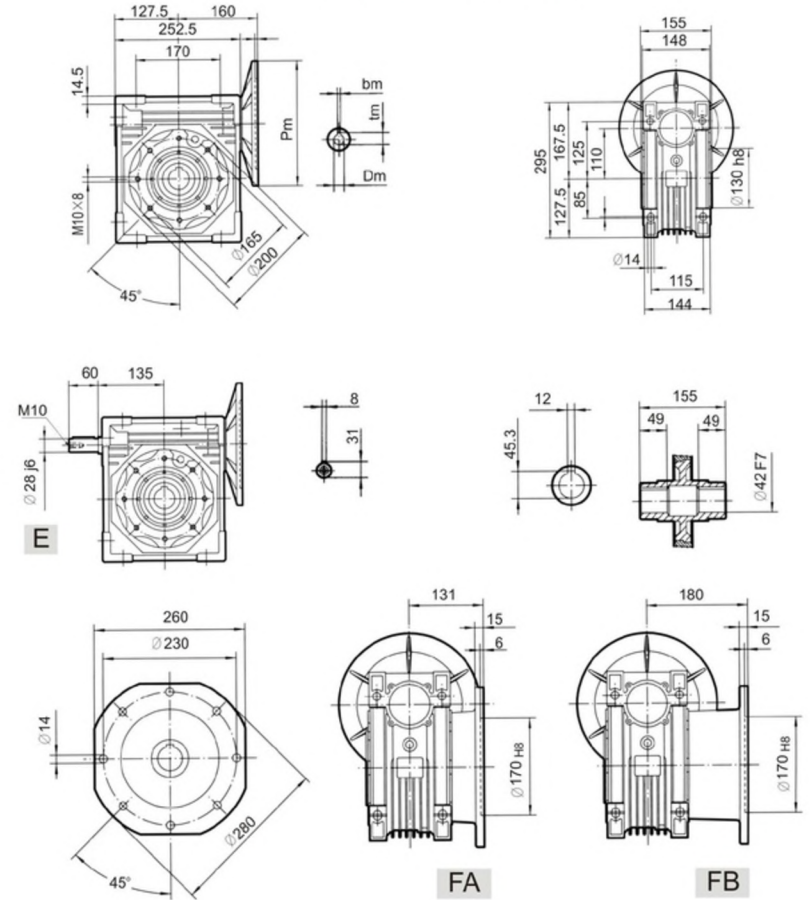
PAM IEC	Pm	Dm E8	bm	tm	Df7	b	t
100/112B5	250	28	8	31.3	28	8	31.3
90B5	200	24	8	27.3	35*	10*	38.3*
80B5	200	19	6	21.8	*Only on request		
71B5	160	14	5	16.3			
100/112B14	160	28	8	31.3			
90B14	140	24	8	27.3			
80B14	120	19	6	21.8			

Weight without motor≈13kg



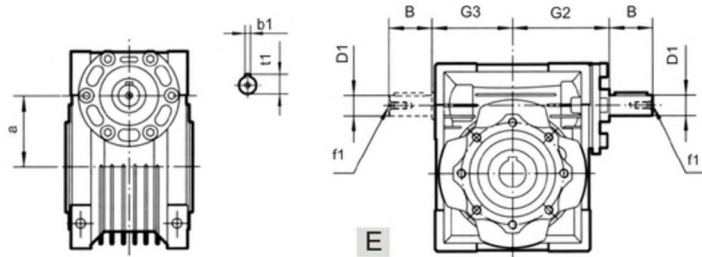
PAM IEC	P _m	D _m E8	b _m	t _m	DF7	b	t
100/112B5	250	28	8	31.3	35	10	38.3
90B5	200	24	8	27.3	38*	10*	41.3*
80B5	200	19	6	21.8	*Only on request		
100/112B14	160	28	8	31.3			
90B14	140	24	8	27.3			
80B14	120	19	6	21.8			

Weight without motor≈35kg



PAM IEC	P _m	D _m E8	b _m	t _m
132B5	300	38	10	41.3
112B5	250	28	8	31.3
100B5	250	28	8	31.3
90B5	200	24	8	27.3

SRVL WORM GEAR UNITS



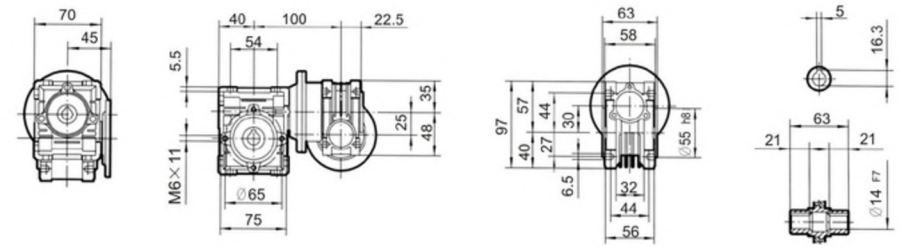
SRVL	030	040	050	063	075	090	110	130	150
B	20	23	30	40	50	50	60	80	80
D1 j ₆	9	11	14	19	24	24	28	30	35
G2	51	60	74	90	105	125	142	162	195
G3	45	53	63	75	90	108	135	155	175
a	30	40	50	63	75	90	110	130	150
b1	3	4	5	6	8	8	8	8	10
f1	-	-	M6	M6	M8	M8	M10	M10	M12
t1	10.2	12.5	16	21.5	27	27	31	33	38

★ For the missing dimensions, please refer to page 50-59

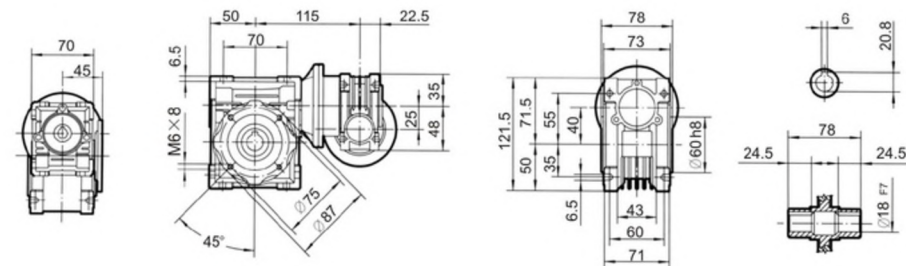
SRV/SRV OUTLINE DIMENSION

- ★ For the dimensions of the output flange, please refer to page 50-59
- ★ For the dimensions of the hollow shaft, please refer to page 50-59
- ★ For the dimensions of the double extension worm shaft, please refer to page 66-67

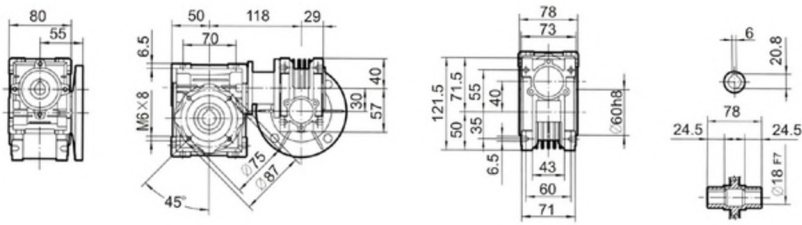
SRV025/030



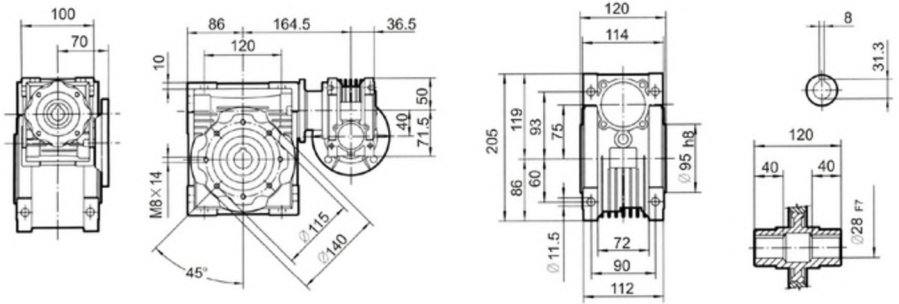
SRV025/040



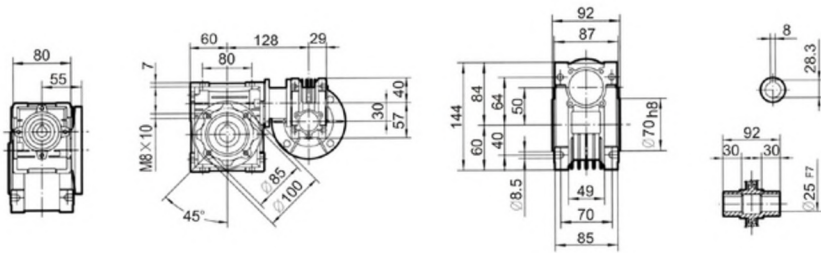
SRV030/040



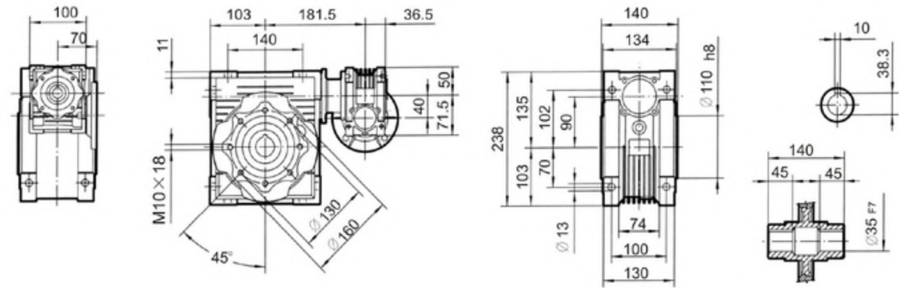
SRV040/075



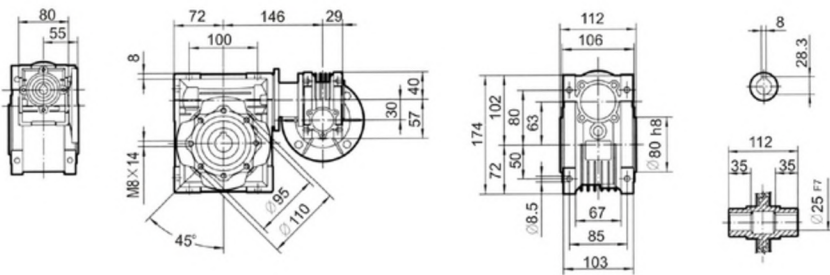
SRV030/050



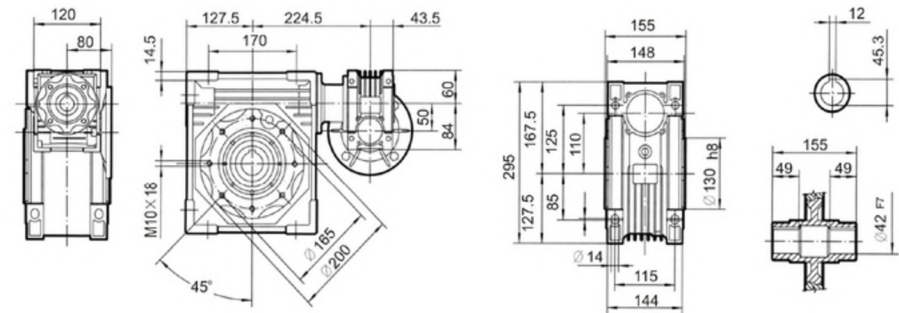
SRV040/090



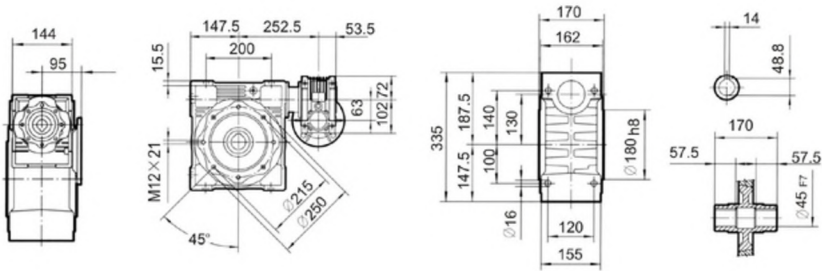
SRV030/063



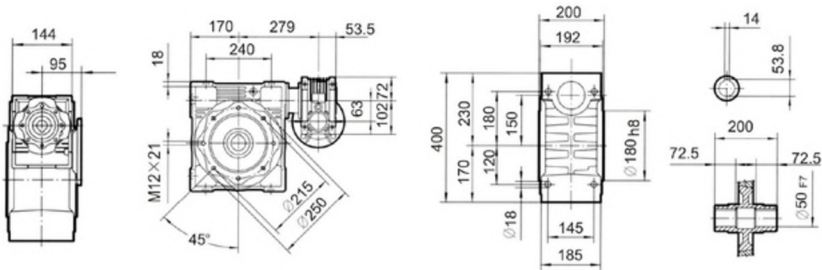
SRV050/110



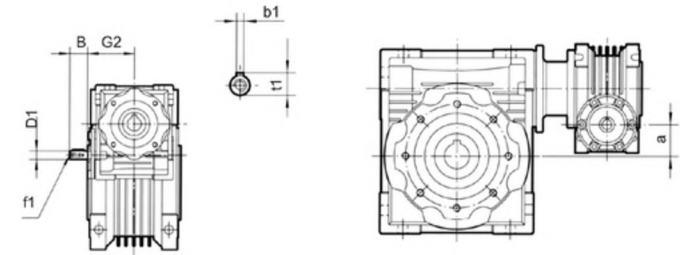
SRV063/130



SRV063/150

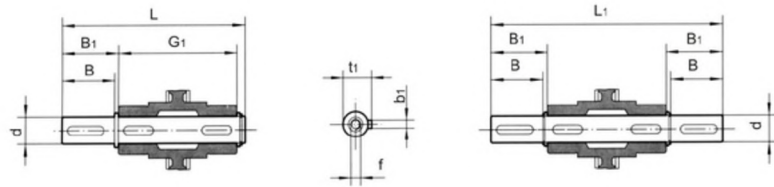


SRVL-SRV COMBINATION WORM GEAR UNITS



SRVL-SRV	030/040	030/050	030/063	040/075	040/090	050/110	063/130	063/150
B	20	20	20	23	23	30	40	40
D1 j6	9	9	9	11	11	14	19	19
G2	51	51	51	60	60	74	90	90
a	10	20	33	35	50	60	67	87
b1	3	3	3	4	4	5	6	6
f1	-	-	-	-	-	M6	M6	M6
t1	10.2	10.2	10.2	12.5	12.5	16	21.5	21.5

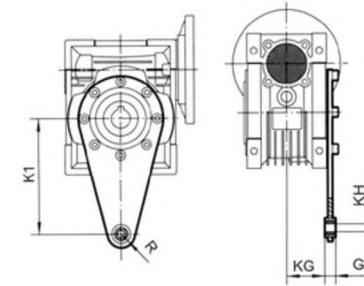
OUTPUT SHAFT



	d(h6)	B	B1	G1	L	L1	f	b1	t1
SRV025	11	23	25.5	50	81	101	-	4	12.5
SRV030	14	30	32.5	63	102	128	M6	5	16
SRV040	18	40	43	78	128	164	M5	6	20.5
SRV050	25	50	53.5	92	153	199	M10	8	28
SRV063	25	50	53.5	112	173	219	M10	8	28
SRV075	28	60	63.5	120	192	247	M10	8	31
SRV090	35	80	84.5	140	234	309	M12	10	38
SRV110	42	80	84.5	155	249	324	M16	12	45
SRV130	45	80	85	170	265	340	M16	14	48.5
SRV150	50	82	87	200	297	374	M16	14	53.5

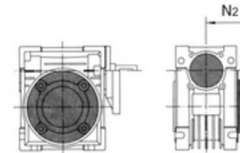
*Only on request

TORQUE ARM



	K1	G	KG	KH	R
SRV025	70	14	17.5	8	15
SRV030	85	14	24	8	15
SRV040	100	14	31.5	10	18
SRV050	100	14	38.5	10	18
SRV063	150	14	49	10	18
SRV075	200	25	47.5	20	30
SRV090	200	25	57.5	20	30
SRV110	250	30	62	25	35
SRV130	250	30	69	25	35
SRV150	250	30	84	25	35

COVER



	N2		N2
SRV025	/	SRV075	79
SRV030	47	SRV090	94
SRV040	55	SRV110	102
SRV050	63	SRV130	117
SRV063	73	SRV150	132

OPERATION & MAINTENANCE

1. The shapes of shaft extension are all cylindrical. It is subject to GB 1569-1990 Cylindrical shaft extension. The key joint refers to GB1095-2003 Ordinary flat key.
2. The shaft lines should be kept concentric when the coupling is connected with a motor. The installation error should be no more than the tolerance value of the coupling.
3. When the output shaft is installed with the coupling or belt wheel, It should be pressed into the screw hole on shaft end. Or assembled by heating. No hammering on it.
4. The mechanical stepless speed variator is not used in such an occasion where overload or running-blockage happened to occur.
5. Speed-regulation should be effected in running. Do not turn the hand wheel of speed-regulation when the machine stops!
6. The limit screws of speed-regulation on two ends under the operating box are well adjusted, Please don't touch them!
7. This set is not suited to work in the environment over 40°C, especially no more than 45°C when the temperature rises.
8. The machine is filled with lubricating oil before leaving factory. When it starts to work up to 2000 hours for the first time, its lubricating oil should be replaced, changing the lubricating oil every 5000 hours later.

LUBRICANT OIL SELECTION TABLE

	TEMPERATURE	ISO	SHELL	AGIP	ESSO	MOBIL	CASTROL	BP	GMERI	
SRV025-090	-25°C~50°C	VG320	Tivela OILS320	Telium VSF320	S220	Glygoyle 30	Alphasyn Pg320	Engergo SG-XP32		Synthetic oil
SRV 110-150	-5°C~40°C	VG460	Omala OIL460	Blasia 460	Spartan Ep460	Mobilgear 634	Alpha MAX 460	Energol GR-XP460	CKE460	Synthetic oil
	-15°C~25°C	VG220	Omala OIL220	Blasia 220	Spartan Ep220	Mobilgear 630	Alpha MAX 220	Energol GR-XP220		

LUBRICANT FILL QUANTITY (L)

	B3	B6	B7	B8	V5	V6
SRV025				0.023		
SRV030				0.05		
SRV040				0.081		
SRV050				0.12		
SRV063				0.3		
SRV075				0.5		
SRV090				1		
SRV110	3	2.5	2.5	2.2	3	3
SRV130	4.5	3.5	3.5	3.3	4.5	4.5
SRV150	7	5.4	5.4	5.1	7	7

LUBRICATION

In case of ambient temperatures are not envisaged in the table, please call our Technical Service.

- In the case of temperature under -30°C or over 60°C , it is necessary to use oil seals with special material.
- For operating ranges with temperature under 0°C , it is necessary to consider the following:

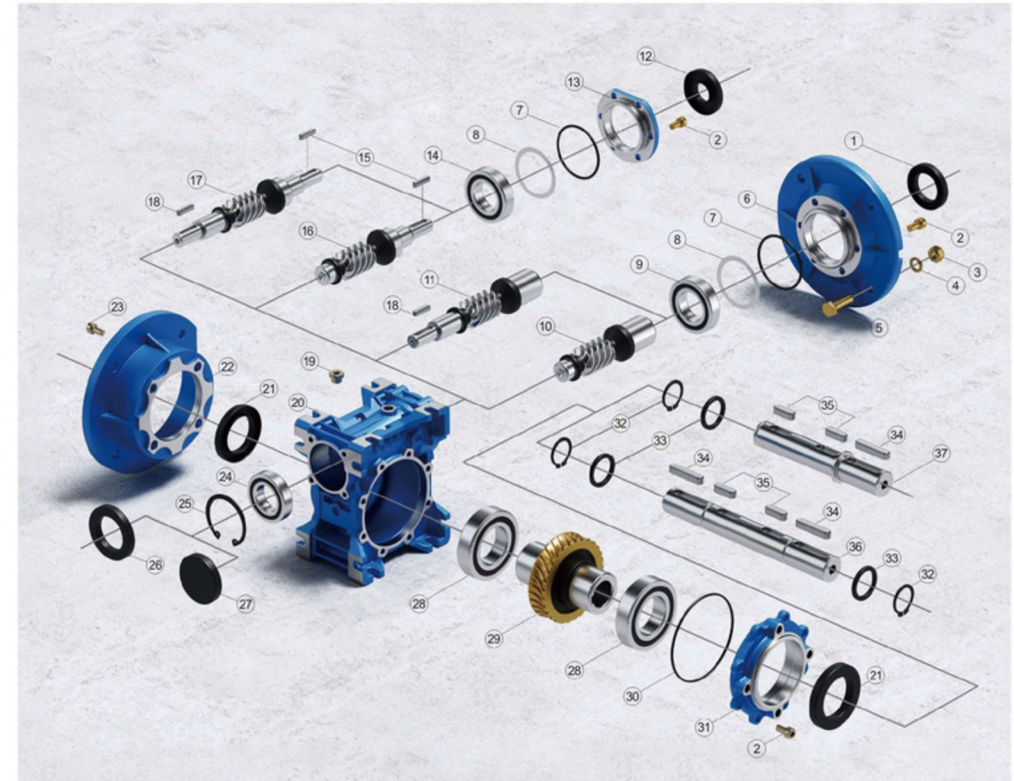
The motors need to be suitable for operation at the envisaged ambient temperature.

- The power of the electric motor needs to be adequate for exceeding the higher starting torques required.
- In the case of reduction units with a cast-iron case, pay attention to impacting loads since cast iron may have problems of fragility at temperature under -15°C .
- In the initial stages of service, lubrication issues may arise because the oil tends to take on a higher level of viscosity. Therefore, it is advisable to allow a few minutes of rotation under unloading situation.
- The oil needs to be changed after approximately 10,000 hours. This period depends on the type of service and the environment where the gearbox works.
- The gearbox size 025-030-040-050-063-075-090 are supplied completely with lubricant for life, synthetic oil (SHELL TEVELA OIL 320), and can therefore be mounted in any position envisaged in the catalogue, V5/V6 for which you should call our Technical Service to assess the condition of use.
- The gearbox size 110 to 150 are supplied completely with lubricant, mineral oil (SHELL TEVELA OIL 220).
- For size 110 to 150, it is necessary to specify the position, otherwise the gearbox are supplied with the quantity of oil relating to pos.B3.
- Only gearbox 110 to 150 are fitted with breather, level and oil drainage plugs. After installation, it is necessary to replace the closed plug used for transportation with the breather plug supplied with the unit.

NOTICE FOR ORDERING

1. Please refer to the sheet of performance parameter, SRV series dimensions, mounting and operation diagram, make reasonable choice of model, and write down model mark to your required revolution scope, output torque and structural form on ordering (when ordering, you should show whether the reducers are equipped with motors, otherwise reducers aren't supplied with motors.)
2. Please make the best choice of standard products in this catalogue, and give an additional explanation for your special requirement of motors.

EXPLODED VIEW & NAME OF PARTS



1.oil seal	14.Bearing	27.cover
2.inner hex screw	15.key	28.bearing
3.nut	16.shaft input worm shaft	29.worm wheel
4.spring washer	17.shaft input and shaft output worm shaft	30.O-Ring
5.hex screw	18.key	31.output cover
6.input flange	19.oil plug	32.shaft-circlip
7.O-Ring	20.casing	33.spacer
8.adjust spacer	21.oil seal	34.key
9.bearing	22.output flange	35.key
10.hole input worm shaft	23.inner hex screw	36.double output shaft
11.hole input and shaft output worm shaft	24.bearing	37.single output shaft
12.oil seal	25.hole-circlip	
13.input cover	26.oil seal	

All Series Products

To highlight our competitive advantage, we strive to do intensive work in the professional manufacturing of worm gear reducer series, RSKF helical gear reducer series, and planetary gear reducer series.

