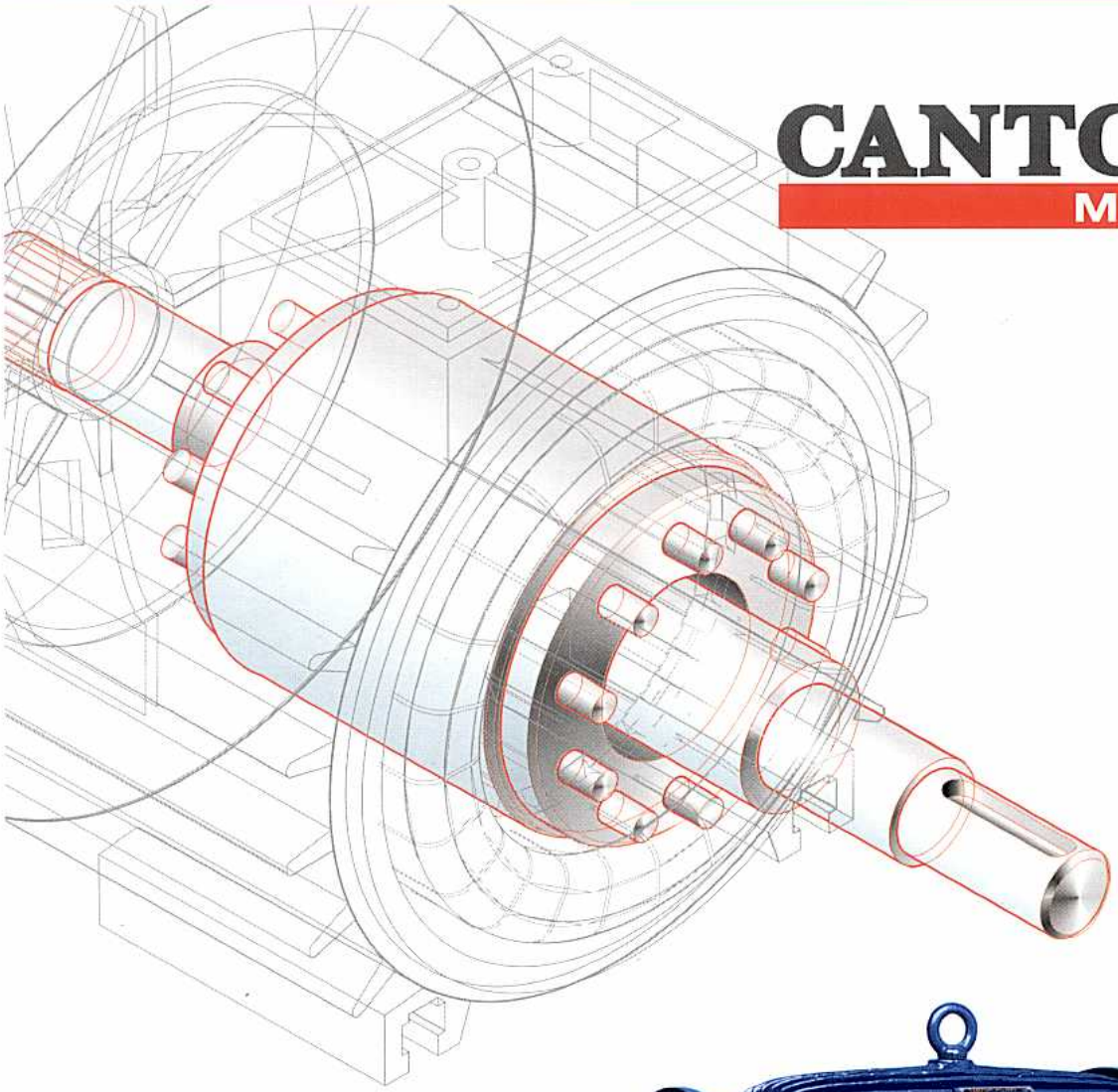
CANTONI
MOTOR

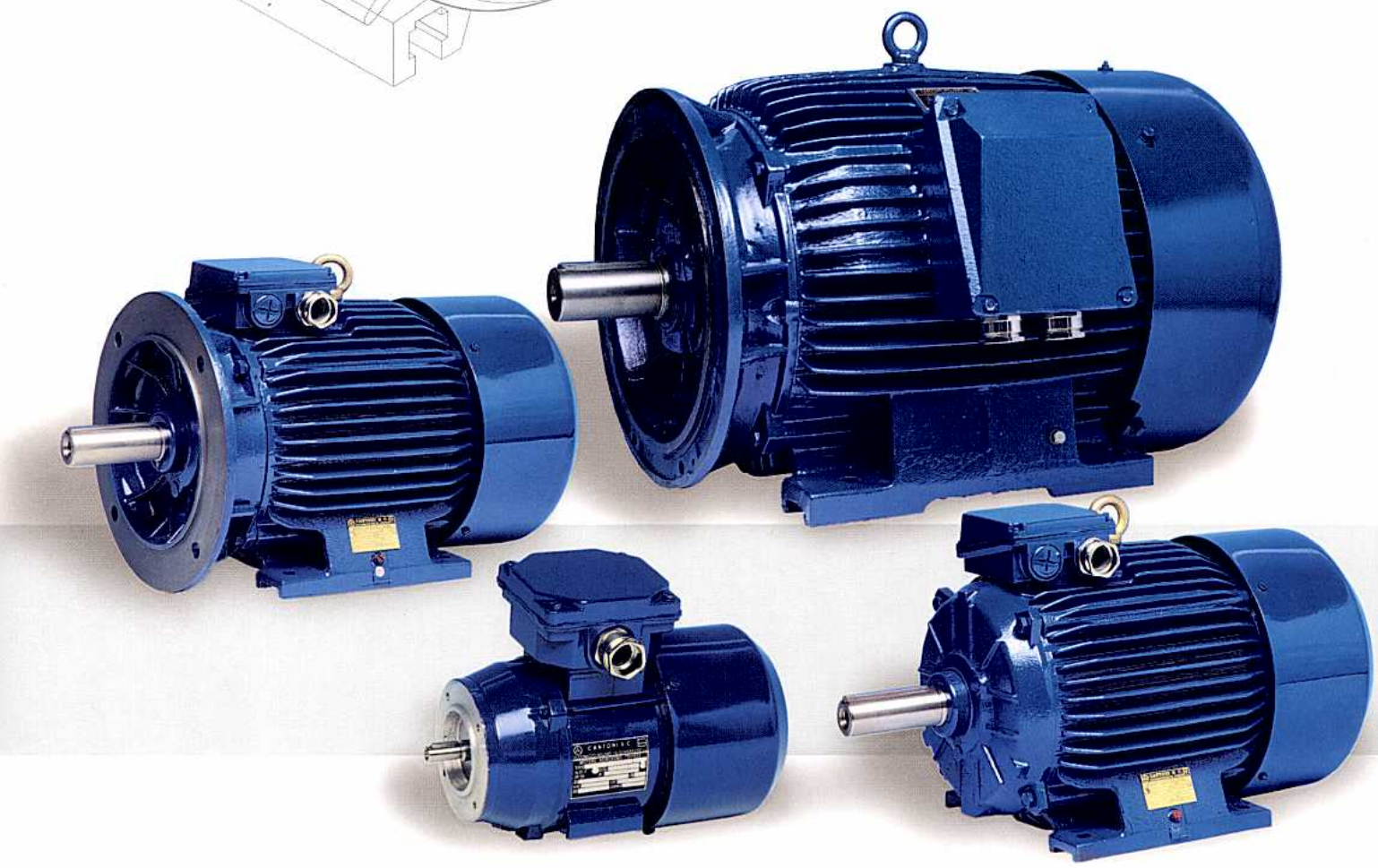
ISO 9001



General Purpose 3-Phase Induction Motors

EFF 1

EFF 2



Product Catalogue

DESCRIPTION OF THE CATALOGUE VERSION

Duty:	S1
Rated voltage:	380V, 400V
Frequency:	50 Hz
Ambient temperature:	from -15°C to + 40°C
Mounting height:	up to 1000 m above sea level
Number of free shaft ends:	1
Insulation class:	F
Bearings:	according to page 12

Other specifications dependent on the frame size:

Frame size	Degree of protection	Position of the terminal box	Number of terminals	Number of cable outlets	Optional rotation of the terminal box	Glands	Temperature sensors in winding	Bearing lubrication system	Thermal protection of bearings
Sg 56	IP 55	top	6	1	180 °	M 20	on request	no	-
Sg 63	IP 55	top	6	1	180 °	M 20	on request	no	-
Sh 71	IP 55	top	6	1	180 °	M 20	on request	no	-
Sh 80	IP 55	top	6	1	180 °	M 20	on request	no	-
Sh 90	IP 55	top	6	2	4 × 90 °	M 20	on request	no	-
Sg 100	IP 55	top	6	2	4 × 90 °	M 20	on request	no	-
Sg 112	IP 55	top	6	2	4 × 90 °	M 25	on request	no	-
Sg 132	IP 55	top	6	2	4 × 90 °	M 25	on request	no	-
Sg 160	IP 55	top	6	2	4 × 90 °	M 40	on request	on request	on request
Sg 180	IP 55	top	6	2	4 × 90 °	M 40	on request	on request	on request
Sg 200	IP 55	right	6	2	4 × 90 °	M 36	on request	yes	on request
Sg 225	IP 55	right	6	2	4 × 90 °	M 36	on request	yes	on request
Sg 250	IP 55	right	6	2	4 × 90 °	M 42	on request	yes	on request
Sg 280	IP 55	right	6	2	4 × 90 °	M 42	on request	yes	on request
Sg 315	IP 55	right	6	2	4 × 90 °	M 76	on request	yes	on request
Sg 355	IP 55	right	6	2	4 × 90 °	M 76	PTC Mark A	yes	on request
SEE 355	IP 55	top	6	2	4 x 90 °	M 76	PTC Mark A	yes	on request
Sh 355	IP 55	top	6	2	4 × 90 °	M 76	Pt 100	yes	Pt 100
Sh 400	IP 55	top	3 (bars)	3	180 °	M 3×ϕ55	Pt 100	yes	Pt 100
Sh 450	IP 55	top	3 (bars)	3	180 °	M 3×ϕ55	Pt 100	yes	Pt 100

We are able to supply almost any motor made according to customer's specifications

DESCRIPTION OF THE CUSTOMIZED VERSION

Different supply voltage	
Frequency:	60 Hz
Degree of protection:	IP 56
Insulation class:	H
Number of free shaft ends:	2
Tropicalization	
Different bearings	
Different duty type	
Adaptation for supply from a frequency inverter	
Different versions per customer's specifications	

As part of our development program, we reserve the right to alter or amend any of the specifications without giving prior notice

RATINGS - TOLERANCES

Permissible deviations of real values from catalogue values according to IEC 60034-1:

Power factor cos φ	$\Delta\cos\varphi = -1/6\ (1-\cos\varphi_N)$
Efficiency η	$\Delta\eta = -15\%(100-\eta_N)$
Speed n	$\Delta n = \pm 20\%(n_s-n_N)$ for $P_N > 1kW$ $\Delta n = \pm 30\%(n_s-n_N)$ for $P_N \leq 1kW$
Locked rotor current I_L/I_N	$\Delta(I_L/I_N) = +20\%\ (I_L/I_N)$
Locked rotor torque T_L/T_N	min $(T_L/T_N) = -15\%\ (T_L/T_N)$ max $(T_L/T_N) = +25\%\ (T_L/T_N)$
Breakdown torque T_b/T_N	$\Delta(T_b/T_N) = -10\%\ (T_b/T_N)$
Moment of inertia J [kgm^2]	$\Delta J = \pm 10\%\ J$
Sound pressure level L_{pA} [dB]	$\Delta L_{pA} = \pm 3$ dB /A/

The rated current of a motor is the value consumed by a given motor at the rated load, rated supply voltage, rated efficiency and power factor.

Real current consumed by the motor at the rated supply voltage and rated load results from the real efficiency and real power factor (permissible deviations).

No-load current in small motors and low speeds, e.g. frame size 90, 2p=6 or 2p=8, may be approximately slightly lower or equal to the rated current. In case of supply voltage higher than the rated one it may even exceed the rated current.

STANDARDS AND EQUIVALENTS

The electric motors are manufactured according to international standards:

Rating and performance	**IEC 60034-1**
Methods for determining losses and efficiency	**IEC 60034-2**
Classification of degrees of protection	**IEC 60034-5**
Methods of cooling	**IEC 60034-6**
Symbols of construction and mounting arrangements	**IEC 60034-7**
Terminal markings and direction of rotation	**IEC 60034-8**
Noise limits	**IEC 60034-9**
Dimensions and output for electric machines	**IEC 60072-1**
Vibration limits	**IEC 60034-14**

The products comply with the specifications regarding the electromagnetic compatibility specified in:

EN 50081-1, EN 50081-2, EN 50082-1, EN 50082-2.

Country	Standard	
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 51 117;**	 **NFC 51 115** **NFC 51 119**
Italy	**CEI 2-3 1988;** **CEI 2-6;** **CEI 2-8;** **CEI/UNEL 13113-71;** **CEI/UNEL 13117-71;** **CEI/UNEL 13118-71;**	 **CEI 2-7** **CEI 2-15**

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

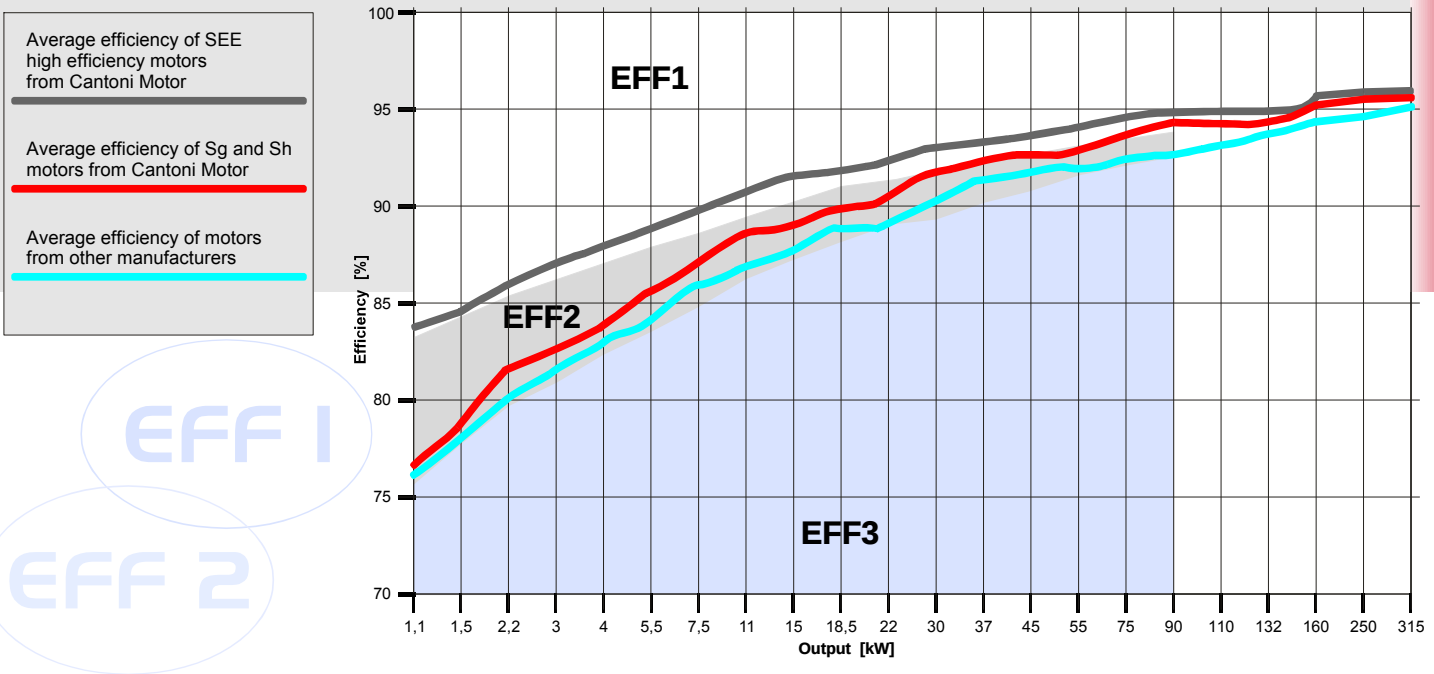
EFFICIENCY OF MOTORS

Since 2001 Cantoni Motor has started offering high efficiency series SEE motors.
The SEE motors belong to the EFF1 efficiency class (high efficiency) in accordance with the recommendations of the European Association of Electric Motor Manufacturers CEMEP acting under the auspices of the European Power Committee.

The present catalogue mostly describes the electric motors belonging to the second efficiency class EFF2 (improved efficiency).

These motors show high efficiency, exceeding average efficiency of motors manufactured by other European manufacturers.

Output [kW]	Average efficiency of SEE high efficiency motors from Cantoni Motor [%]	Average efficiency of Sg and Sh motors from Cantoni Motor [%]	Average efficiency of motors from other manufacturers [%]
0,75	83,9	75,0	73,7
1,1	83,8	76,7	75,9
1,5	85,0	79,0	78,0
2,2	86,4	82,0	80,1
3,0	87,4	82,7	81,5
4,0	88,3	85,1	83,7
5,5	89,2	85,9	85,0
7,5	90,1	87,0	86,4
11	91,0	89,0	87,0
15	91,8	89,5	88,9
18,5	92,2	90,5	90,1
22	92,6	91,0	89,2
30	93,5	92,5	91,0
37	94,3	92,6	92,1
45	94,5	94,0	92,4
55	95,0	93,5	92,7
75	95,2	94,2	92,1
90	95,2	94,8	93,2
110	95,5	94,2	93,0
132	95,6	94,9	94,0
160	95,9	95,6	94,7
250	96,3	96,3	95,0
315	96,6	96,6	95,6



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.

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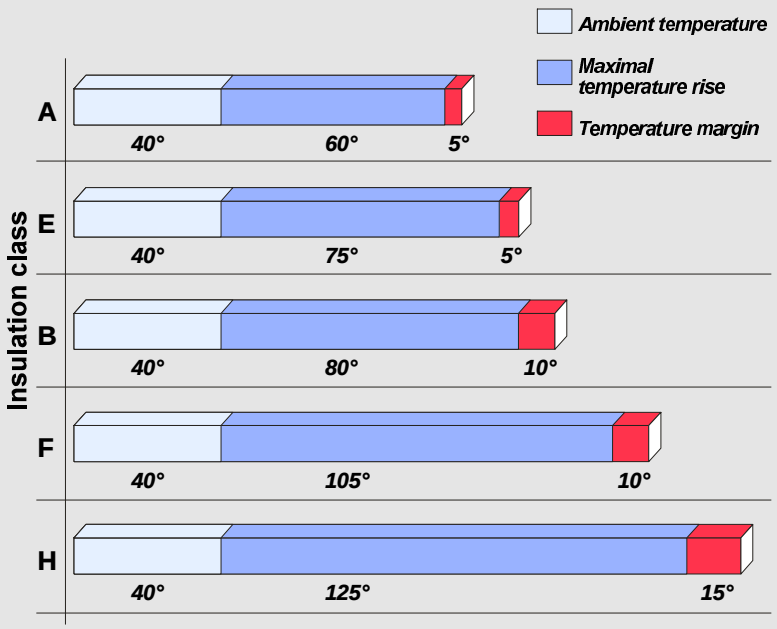
Symbols of thermal resistance classes (permissible insulation temperatures for ambient temperature of 40°C)

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).

Class F

The motors made by Cantoni 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.

DEGREE OF PROTECTION IP

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 access to dangerous parts, introducing foreign matter and/or water.

The IP code consists of IP code leters and two obligatory digits, meaning:

The first digit (protection from introduction Of solid foreign matter)		The second digit (protection against penetration of water and its harmful effects)	
IP	**Defnition**	**IP**	**Definition**
0	no protection	0	no protection
1	diameter ≥ 50 mm	1	dropping vertically
2	diameter ≥ 12,5 mm	2	dropping (up to 15°)
3	diameter ≥ 2,5 mm	3	sprayed
4	diameter ≥ 1,0 mm	4	splashed
5	limited protection against dust	5	in stream
		6	in strong stream
		7	under short-time immersion
		8	under permanent immersion

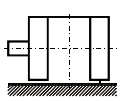
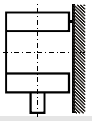
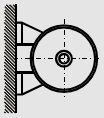
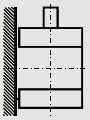
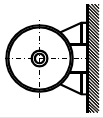
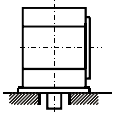
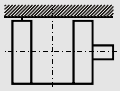
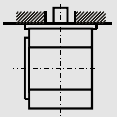
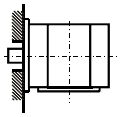
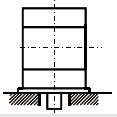
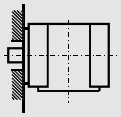
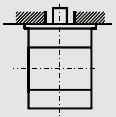
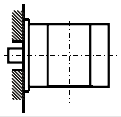
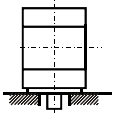
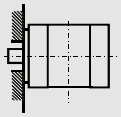
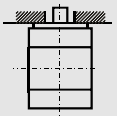
The motors described in the present catalogue in their basic version have the IP 55 degree of protection.

On demand we make motors with the IP 56 degree of protection.

IP55

MOUNTING ARRANGEMENTS

According to the IEC 60034-7 standard

Horizontal shaft Designation				Vertical shaft Designation			
	System II	System I	Frame size		System II	System I	Frame size
	IM 1001	IM B3	**56 ÷ 450**		IM 1011	IM V5	**56 ÷ 315** except Sg 315 M6C except Sg 315 M8C
	IM 1051	IM B6	**56 ÷ 315** except Sg 315 M6C except Sg 315 M8C		IM 1031	IM V6	**56 ÷ 315** except Sg 315 M6C except Sg 315 M8C
	IM 1061	IM B7	**56 ÷ 315** except Sg 315 M6C except Sg 315 M8C		IM 2011	IM V15	**56 ÷ 315** except SLg 315 M6C except SLg 315 M8C
	IM 1071	IM B8	**56 ÷ 315** except Sg 315 M6C except Sg 315 M8C		IM 2031	IM V36	**56 ÷ 315** except SLg 315 M6C except SLg 315 M8C
	IM 2001	IM B35	**56 ÷ 450** except SLg 315 M6C except SLg 315 M8C		IM 3011	IM V1	**56 ÷ 450** except SVEE 355 (2-pole) except SVh 355 (2-pole) except SVh 400 (2-pole)
	IM 2101	IM B34	**56 ÷ 132**		IM 3031	IM V3	**56 ÷ 315**
	IM 3001	IM B5	**56 ÷ 315**		IM 3611	IM V18	**56 ÷ 180**
	IM 3601	IM B14	**56 ÷ 132**		IM 3631	IM V19	**56 ÷ 180**

MOTOR FEET

Motors of frame size ≤ 112 have screwed feet.
Motors of frame size 132 have screwed feet or integrated with the motor housing.
Motors of frame size ≥ 160 have feet integrated with the motor housing.

TERMINAL BOX

Terminal boxes of low voltage motors have threaded inlet holes designed for mounting cable glands.
The box contains terminal board with marked terminals making possible connection of supply cables.

In addition, terminal boxes may be provided with additional terminals connected to the ends of thermal protection or anticondensation heater circuits and extra glands to connect these circuits.

Low voltage high-power motors contain terminal boxes with cable gland seals and cable clamps to prevent their removal.
Inside the boxes there are special clamps used to ground the supply cable armouring.
In low voltage motors of very high power three supply busbar are used.
Box covers of low voltage high-power motors are made in form of antiimplosion membranes.
The circuits of thermal protection and anticondensation heaters are connected to separate terminal boxes.

VIBRATION LEVEL AND ACOUSTIC POWER

VN

The rotor balancing method guarantees maintaining a normal vibration level VN in accordance with the IEC 60034-14 standard and basic acoustic power level in accordance with the IEC 60034-9 standard.
On customer's demand the motors may be made with reduced vibration or noise level.

HOUSING, END SHIELDS, FEET

Frame size [mm]	Motor housing	End shields	Feet
56	Aluminium	Aluminium	Aluminium - screwed
63	Aluminium	Aluminium	Aluminium - screwed
71	Aluminium	Aluminium	Aluminium - screwed
80	Aluminium	Aluminium	Aluminium - screwed
90	Aluminium	Cast iron	Aluminium - screwed
100	Aluminium	Cast iron	Aluminium - screwed
112	Aluminium	Cast iron	Aluminium - screwed
132	Cast iron	Cast iron	Cast iron - screwed
160	Cast iron	Cast iron	Cast iron - integrated
180	Cast iron	Cast iron	Cast iron - integrated
200	Cast iron	Cast iron	Cast iron - integrated
225	Cast iron	Cast iron	Cast iron - integrated
250	Cast iron	Cast iron	Cast iron - integrated
280	Cast iron	Cast iron	Cast iron - integrated
315	Cast iron	Cast iron	Cast iron - integrated
355	Cast iron	Cast iron	Cast iron - integrated
400	Cast iron	Cast iron	Cast iron - integrated
450	Cast iron	Cast iron	Cast iron - integrated

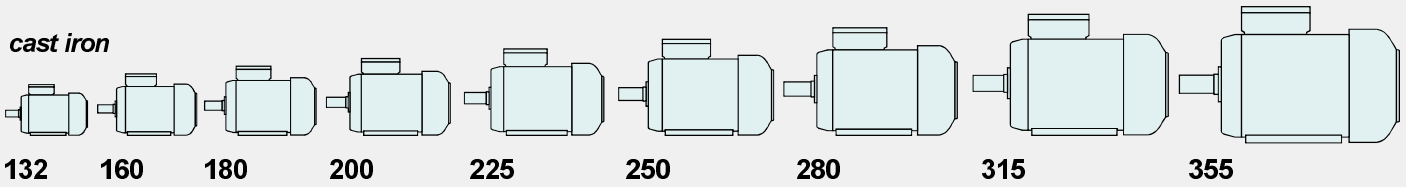
In motors of frame size 80: end shields may be made of cast iron.
In motors of frame size 90 and 100: end shields may be made of aluminium.
In motors of frame size 132: feet may be integrated with housing.

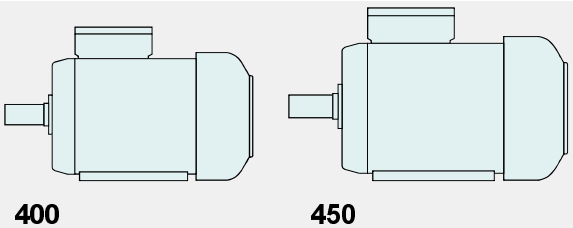
Motor housing

aluminium cast iron

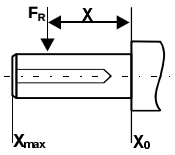
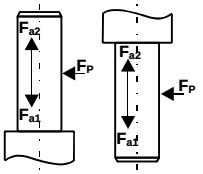
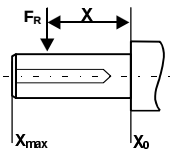
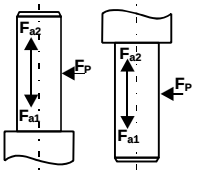
aluminium

cast iron





PERMISSIBLE LOADING ON THE SHAFT END

Frame size	Number of poles	Horizontal operation		Vertical operation			Frame size	Number of poles	Horizontal operation		Vertical operation		
													
		$F_R(x=0)$	$F_R(x=max)$	Fp	Fa1	Fa2			$F_R(x=0)$	$F_R(x=max)$	Fp	Fa1	Fa2
		[kN]		[kN]					[kN]		[kN]		
Sg 56	2	0,20	0,16	0,04	0,03	0,05	Sg 200 LA	6	2,80	2,30	2,40	1,80	3,30
Sg 56	4	0,25	0,20	0,05	0,04	0,06	Sg 200 LB	6	2,70	2,20	2,40	1,60	3,40
Sg 63	2	0,20	0,16	0,04	0,04	0,06	Sg 200 L	8	3,10	2,60	2,7	2,00	3,60
Sg 63	4	0,25	0,20	0,06	0,05	0,07	Sg 225 S	4	2,90	2,30	2,50	1,80	3,40
Sg 63	6	0,27	0,22	0,06	0,05	0,07	Sg 225 S	8	3,90	3,10	3,20	2,50	4,20
Sh 71	2	0,29	0,24	0,07	0,05	0,09	Sg 225 M	2	2,20	1,80	1,70	1,10	2,50
Sh 71	4	0,36	0,30	0,09	0,07	0,11	Sg 225 M	4	2,70	2,10	2,40	1,60	3,50
Sh 71	6	0,40	0,35	0,10	0,08	0,12	Sg 225 M	6	3,10	2,50	2,80	1,90	4,00
Sh 71	8	0,40	0,35	0,11	0,09	0,13	Sg 225 M	8	3,70	2,90	3,10	2,30	4,30
Sh 80	2	0,33	0,27	0,09	0,06	0,12	Sg 250 M	2	2,60	2,10	2,00	1,30	3,00
Sh 80	4	0,44	0,37	0,12	0,09	0,15	Sg 250 M	4	3,20	2,60	2,80	1,80	4,20
Sh 80	6	0,51	0,42	0,14	0,11	0,17	Sg 250 M	6	3,60	2,90	3,20	2,00	4,90
Sh 80	8	0,51	0,42	0,17	0,15	0,20	Sg 250 M	8	4,10	3,40	3,60	2,30	5,30
Sh 90	2	0,58	0,44	0,53	0,30	0,40	Sg 280 S	2	3,20	2,70	2,60	1,40	4,00
Sh 90	4	0,64	0,52	0,60	0,30	0,40	Sg 280 S	4	3,90	3,30	3,50	2,10	5,40
Sh 90	6	0,74	0,68	0,73	0,30	0,40	Sg 280 S	6	5,00	4,20	4,20	2,90	5,90
Sh 90	8	0,82	0,74	0,80	0,30	0,40	Sg 280 S	8	5,50	4,60	4,60	3,30	6,50
Sg 100	2	0,78	0,56	0,70	0,25	0,40	Sg 280 M	2	3,10	2,50	2,50	1,30	4,10
Sg 100	4	0,81	0,79	0,83	0,25	0,40	Sg 280 M	4	3,70	3,10	3,50	1,90	5,50
Sg 100	6	0,98	0,92	0,98	0,25	0,40	Sg 280 M	6	4,80	4,00	4,10	2,70	6,10
Sg 100	8	1,12	1,04	1,11	0,25	0,40	Sg 280 M	8	5,20	4,30	4,50	2,90	6,70
Sg 112	2	0,70	0,56	0,67	0,25	0,40	Sg 315 S	2	3,70	3,20	3,00	1,60	4,80
Sg 112	4	0,81	0,71	0,79	0,25	0,40	Sg 315 S	4	6,40	5,30	4,90	3,10	7,30
Sg 112	6	0,92	0,84	0,92	0,25	0,40	Sg 315 S	6	7,40	6,20	6,30	4,30	8,90
Sg 112	8	1,05	0,97	1,05	0,25	0,40	Sg 315 S	8	8,40	7,00	7,00	5,00	9,60
Sg 132	2	1,02	0,94	1,04	0,17	0,57	Sg 315 MA	2	3,60	3,00	2,90	1,50	4,80
Sg 132	4	1,16	1,04	1,16	0,17	0,57	Sg 315 MB	2	3,30	2,80	2,90	1,30	4,90
Sg 132	6	1,40	1,22	1,37	0,17	0,57	Sg 315 MA	4	6,20	5,10	4,80	2,90	7,40
Sg 132	8	1,63	1,39	1,57	0,17	0,57	Sg 315 MB	4	5,90	4,90	4,80	2,70	7,50
Sg 160	2	1,23	1,09	1,22	0,82	1,07	Sg 315 MA	6	7,20	6,00	6,20	4,10	9,00
Sg 160	4	1,35	1,13	1,32	1,00	1,39	Sg 315 MB	6	6,80	5,60	6,10	3,60	9,30
Sg 160	6	1,61	1,37	1,58	1,26	1,62	Sg 315 MA	8	8,20	6,80	6,90	4,80	9,70
Sg 160	8	1,92	1,50	1,80	1,47	1,80	Sg 315 MB	8	7,70	6,40	6,80	4,30	10,00
Sg 180	2	1,90	1,66	1,65	1,00	1,20	Sg 315 MC	adaptation to belt drive on customer's request					
Sg 180	4	2,42	1,82	1,98	1,00	1,35	Sg 355 S	adaptation to belt drive on customer's request					
Sg 180	6	2,75	2,07	2,15	1,60	1,95	Sg 355 M	adaptation to belt drive on customer's request					
Sg 180	8	3,30	2,04	2,49	1,90	2,44	SEE 355	adaptation to belt drive on customer's request					
Sg 200 LA	2	2,00	1,60	1,50	1,10	2,10	Sh 355	adaptation to belt drive on customer's request					
Sg 200 LB	2	1,80	1,50	1,50	1,00	2,10	Sh 400	adaptation to belt drive on customer's request					
Sg 200 L	4	2,40	1,90	2,10	1,50	2,90	Sh 450	adaptation to belt drive on customer's request					

Value of radial force F_R acting on the shaft end for a given belt pulley diameter is calculated according to the following formula:

$$F_R = \frac{19600 \times P \times k}{D_K \times n} [N]$$

where:
- P - motor output [kW]
- D_K - belt pulley diameter [m]
- n - speed [rpm]
- k - belt tension factor:
  - for V-belts k=2,2
  - for flat belts k=3

Value of force F_R acting on any point of the shaft end (beetwen points X=max and X=0) may be calculated according to the following formula:

$$F_R = F_{X0} - \frac{X}{E} \times (F_{X0} - F_{XMAX}) [N]$$

where:
- F_{X0} - value of F_R force acting on the beginning of the shaft end
- F_{XMAX} - value of F_R force acting on the end of the shaft end
- E - lenght of the shaft end

BEARINGS

Frame size	Number of poles	Bearings
Sg 56	for all	6201 2Z
Sg 63	for all	6202 2Z
Sh 71	for all	6203 2Z
Sh 80	for all	6204 2Z
Sh 90	for all	6205 2Z
Sg 100	for all	6206 2Z
Sg 112	for all	6306 2Z
Sg 132	for all	6308 2Z
Sg 160	for all	6309 2Z
Sg 180	for all	6311 2Z
Sg 200	for all	6312 2ZC3
Sg 225	for all	6313 2ZC3
Sg 250	for all	6315 2ZC3
Sg 280	2	6317 C3
Sg 280	4 - 12	6317 C3
Sg 315	2	6315 C3
Sg 315	4 - 12	6318 C3

Frame size		Number of poles	Bearings
Sg 315 MC	DE	6 ÷ 8	NU320 EM1
	NDE		6320 C3
Sg 355		2	6317 C3
Sg 355	DE	4 ÷ 12	NU 322 C3
	NDE		6322 C3
SEE 355		2	6217 C3
SEE 355		4 ÷ 8	6222 C3
Sh 355		2	6217 C3
Sh 355		4 ÷ 8	6322M C3
Sh 400		2	6218 C3
Sh 400	DE	4 ÷ 8	6324M C3
	NDE		6322M C3
Sh 450	DE	4 ÷ 8	6324M C3
	NDE		NU222 EM1

The bearings in basic version of motors for horizontal duty

COOLING SYSTEM

Standard motors of frame size 56 ÷ 450 are being cooled down by means of a fan installed on the shaft from the non-drive end, covered with steel cover, cooling system IC 411 according to the IEC 60034-6 standard.

The design of fans and fan covers as well as materials used ensure optimum utilization of their aerodynamic and aeroacoustic properties.

Standard motors can operate in both directions of rotation, with the exception of Sh 355, 400, 450 (2 and 4 poles) motors where unidirectional fans are applied.

ORDERING INFORMATION

Orders for motors should specify:

- **motor type designation,**
- **rated output,**
- **rated speed,**
- **operating duty,**
- **supply voltage and connection,**
- **frequency,**
- **mounting arrangements,**
- **degree of protection,**
- **machine to be driven,**
- **other details of out-of-catalogue or special version,**

and information concerning additional accessories e.g.

- **thermal protection,**
- **anticondensation heaters,**
- **vibration sensors,**
- **etc.**

When ordering high-power or special purpose motors one should also indicate:

- **required direction of rotation,**
- **required degree of interior protection,**
- **method of start-up,**
- **method of coupling with the driven unit (gears, dimensions of belt pulleys, etc.),**
- **type of driven machine (nature of load), including the moment of inertia J or flywheel effect GD^2 brought to the motor shaft,**
- **other customer's specifications.**

When ordering spare parts one should specify:

- **full designation of the motor type including its serial number (provided on the nameplate) or catalogue number,**
- **degree of protection,**
- **mounting form,**
- **name of part,**
- **number of pieces.**

Totally enclosed motors IP55

	Item	Type	Rated output		Rated speed	Rated torque	Efficiency			Power factor	Full load current			Locked rotor torque	Locked rotor current	Breakdown torque	Moment of Inertia	Sound power level	Sound pressure level	Weight (IMB3)
			P_N		n_N	T_N	η_N [%] at % of full load			$\cos\varphi_N$	I_N at rated voltage			T_L/T_N	I_L/I_N	T_b/T_N	J	L_{wA}	L_{pA}	m
			[kW]	[HP]	[rpm]	[Nm]	50%	75%	100%	[-]	$[A]_{230V}$	$[A]_{380V}$	$[A]_{400V}$	[-]	[-]	[-]	[kgm²]	[dB]	[dB]	[kg]
										2p=2		*n_s=3000* rpm								
	1.	Sg 56-2A	0,09	0,12	2800	0,305	43,0	50,0	58,0	0,75	0,56	0,32	0,32	2,1	4,5	2,1	0,000076	67	60	3,0
	2.	Sg 56-2B	0,12	0,17	2800	0,406	50,0	58,0	63,0	0,83	0,60	0,35	0,35	1,8	4,8	2,1	0,000095	67	60	3,4
	3.	Sg 63-2A	0,18	0,25	2760	0,623	58,0	63,0	65,0	0,80	0,95	0,55	0,55	1,9	3,8	1,9	0,000175	67	60	3,6
	4.	Sg 63-2B	0,25	0,33	2760	0,865	62,0	65,0	68,0	0,83	1,10	0,65	0,65	2,0	4,0	2,0	0,000235	67	60	4,2
	5.	Sh 71-2A	0,37	0,50	2800	1,262	67,0	69,0	71,0	0,68	1,73	1,00	1,00	1,9	4,4	2,0	0,000389	67	60	5,3
	6.	Sh 71-2B	0,55	0,75	2790	1,883	69,0	72,0	75,0	0,85	2,35	1,35	1,35	2,0	4,0	2,1	0,000484	67	60	6,0
	7.	Sh 80-2A	0,75	1,00	2800	2,560	66,0	72,0	74,0	0,80	3,30	1,90	1,90	2,7	4,5	2,6	0,000829	72	65	7,8
EFF 2	8.	Sh 80-2B	1,10	1,50	2780	3,780	69,0	75,0	77,0	0,84	4,30	2,50	2,50	2,6	5,1	2,6	0,001005	72	65	9,1
EFF 2	9.	Sh 90S-2	1,50	2,00	2835	5,050	80,7	82,1	81,1	0,83	5,50	3,40	3,20	3,0	6,1	3,0	0,0013	81	65	14,0
EFF 2	10.	Sh 90L-2	2,20	3,00	2855	7,360	82,2	83,9	83,2	0,82	8,10	4,90	4,70	3,4	7,1	3,5	0,0020	81	65	16,8
EFF 2	11.	Sg 100L-2	3,00	4,00	2905	9,860	80,9	83,2	83,4	0,86	10,6	6,40	6,10	2,7	7,5	2,8	0,0048	86	65	25,0
EFF 2	12.	Sg 112M-2	4,00	5,50	2865	13,33	85,7	86,4	85,4	0,90	13,0	7,90	7,50	2,1	6,4	2,3	0,0079	86	67	34,0
EFF 2	13.	Sg 132S-2A	5,50	7,50	2910	18,05	86,4	87,5	87,0	0,88	18,0	10,9	10,4	2,4	7,0	3,2	0,015	86	72	60,0
EFF 2	14.	Sg 132S-2B	7,50	10,0	2920	24,53	88,1	89,2	88,5	0,88	24,0	14,6	13,9	2,5	7,5	3,2	0,018	91	72	71,0
EFF 2	15.	Sg 160M-2A	11,0	15,0	2930	35,85	88,3	89,6	89,5	0,89	34,5	20,9	19,9	2,4	6,1	2,9	0,042	91	72	100
EFF 2	16.	Sg 160M-2B	15,0	20,0	2920	49,06	90,0	90,8	90,5	0,91	45,4	27,6	26,2	2,4	6,2	2,7	0,048	94	72	115
EFF 2	17.	Sg 160L-2	18,5	25,0	2930	60,30	90,7	91,4	91,0	0,91	55,6	33,8	32,1	2,8	6,5	3,0	0,059	94	72	130
EFF 2	18.	Sg 180M-2	22,0	30,0	2920	71,95	88,3	89,6	90,6	0,88	70,0	42,5	40,4	2,5	6,0	2,5	0,076	94	85	165
EFF 1	19.	Sg 200L2A	30,0	40,0	2960	97,00	92,3	93,0	92,9	0,89	90,0	55,0	52,0	1,9	6,0	2,3	0,15	90	78	245
EFF 1	20.	Sg 200L2B	37,0	50,0	2960	119	93,4	93,8	93,7	0,89	111	67,0	64,0	2,2	6,7	2,5	0,18	90	78	265
EFF 1	21.	Sg 225M2	45,0	60,0	2968	145	93,8	94,6	94,5	0,89	133	81,0	77,0	2,4	7,0	2,5	0,26	91	79	335
EFF 2	22.	Sg 250M2	55,0	75,0	2970	177	91,6	93,0	93,5	0,90	163	99,0	94,0	2,0	6,9	2,0	0,36	93	81	410
EFF 2	23.	Sg 280S2	75,0	100	2977	241	92,5	93,8	94,0	0,90	222	135	128	2,1	7,5	3,3	0,76	95	82	535
EFF 2	24.	Sg 280M2	90,0	125	2970	290	93,0	94,2	94,7	0,91	262	159	151	2,0	7,0	3,2	0,87	95	82	605
	25.	Sg 315S2	110	150	2975	353	94,6	95,3	95,4	0,92	314	190	181	1,8	8,0	2,6	0,91	95	82	690
	26.	Sg 315M2A	132	175	2975	424	94,5	95,1	95,0	0,91	381	232	220	2,1	8,5	2,8	0,98	95	82	725
	27.	Sg 315M2B	160	220	2975	514	95,5	95,9	95,9	0,90	461	280	266	1,9	7,9	2,7	1,20	95	82	790
	28.	Sg 355S2	200	270	2975	642	93,2	94,5	94,0	0,89	-	-	342	1,6	6,6	2,8	2,60	93	84	1350
	29.	SEE 355ML2A	250	340	2982	801	95,5	96,3	96,4	0,91	-	-	415	1,8	7,0	2,8	2,70	93	84	1530
	30.	SEE 355ML2B	315	430	2982	1009	95,9	96,6	96,6	0,91	-	-	517	1,9	7,3	3,0	3,30	93	84	1680
	31.	Sh 355H2Ds	355	480	2982	1137	95,6	96,3	96,4	0,91	-	-	585	1,3	6,1	2,5	5,10	93	84	2060
	32.	Sh 355H2Es	400	540	2982	1281	95,9	96,5	96,6	0,91	-	-	657	1,4	6,4	2,4	5,70	93	84	2185
	33.	Sh 400H2Cs	450	610	2984	1440	95,7	96,4	96,6	0,91	-	-	740	1,0	6,5	2,6	7,20	93	84	2650
	34.	Sh 400H2Ds	500	680	2985	1599	95,8	96,6	96,7	0,91	-	-	821	1,1	7,0	2,8	7,90	93	84	2720
	35.	Sh 400H2Es	560	760	2985	1792	95,7	96,5	96,6	0,91	-	-	921	1,0	6,9	2,6	8,50	94	84	2850

Totally enclosed motors IP55

TECHNICAL DATA

Item	Type	Rated output		Rated speed	Rated torque	Efficiency			Power factor	Full load current			Locked rotor torque	Locked rotor current	Breakdown torque	Moment of inertia	Sound power level	Sound pressure level	Weight (IMB3)	
		P_N		N_N	T_N	η_N [%] at % of full load			cos φ_N	I_N at rated voltage			T_L/T_N	I_L/I_N	T_b/T_N	J	L_{wA}	L_{pA}	m	
		[kW]	[HP]	[rpm]	[Nm]	50%	75%	100%	[-]	$[A]_{230V}$	$[A]_{380V}$	$[A]_{400V}$	[-]	[-]	[-]	[kgm^2]	[dB]	[dB]	[kg]	
								2p=4		n_s=*1500* rpm										
36.	Sg56-4A	0,06	0,08	1400	0,409	44,0	52,0	55,0	0,66	0,43	0,25	0,25	1,8	3,3	2,0	0,00015	56	49	2,7	
37.	Sg56-4B	0,09	0,12	1380	0,614	54,0	58,0	61,0	0,65	0,59	0,34	0,34	2,0	3,2	1,9	0,00019	56	49	2,9	
38.	Sg63-4A	0,12	0,17	1380	0,830	56,0	60,0	64,0	0,72	0,70	0,40	0,40	2,0	3,2	2,0	0,00024	58	51	3,6	
39.	Sg63-4B	0,18	0,25	1380	1,245	60,0	62,0	64,0	0,70	1,10	0,65	0,65	2,0	3,2	2,0	0,00031	58	51	4,2	
40.	Sh71-4A	0,25	0,33	1380	1,730	60,0	63,0	66,0	0,68	1,50	0,85	0,85	2,0	3,0	2,0	0,00061	58	51	4,8	
41.	Sh71-4B	0,37	0,50	1370	2,579	62,0	65,0	68,0	0,68	2,20	1,25	1,25	2,1	3,1	2,1	0,00077	63	56	5,9	
42.	Sh80-4A	0,55	0,75	1400	3,750	62,0	68,0	70,0	0,72	2,80	1,60	1,60	2,1	3,6	2,1	0,00158	65	58	7,5	
43.	Sh80-4B	0,75	1,00	1390	5,150	67,0	73,0	75,0	0,73	3,50	2,00	2,00	2,1	4,0	2,1	0,0019	65	58	8,8	
44.	Sh90S-4	1,10	1,50	1405	7,480	75,5	77,8	76,7	0,80	4,50	2,70	2,60	2,2	4,9	2,8	0,0023	71	60	14,0	EFF 2
45.	Sh90L-4	1,50	2,00	1410	10,16	78,1	80,0	79,0	0,78	6,10	3,70	3,50	2,5	5,3	2,8	0,0028	71	60	16,5	EFF 2
46.	Sg100L-4A	2,20	3,00	1425	14,74	80,2	82,3	82,0	0,80	8,30	5,10	4,80	2,5	6,1	2,8	0,0058	71	65	25,0	EFF 2
47.	Sg100L-4B	3,00	4,00	1415	20,25	79,9	81,9	82,7	0,81	11,4	6,90	6,60	2,6	6,1	2,7	0,0065	76	65	26,0	EFF 2
48.	Sg112M-4	4,00	5,50	1435	26,62	84,0	85,6	85,1	0,82	14,4	8,70	8,30	2,6	6,3	3,0	0,0118	76	65	34,0	EFF 2
49.	Sg132S-4	5,50	7,50	1450	36,22	83,9	85,7	85,9	0,84	19,1	11,6	11,0	2,2	6,9	3,1	0,029	76	65	62,0	EFF 2
50.	Sg132M-4	7,50	10,0	1450	49,40	87,0	87,8	87,0	0,85	25,3	15,4	14,6	2,4	6,7	3,1	0,035	81	65	73,0	EFF 2
51.	Sg160M-4	11,0	15,0	1460	71,95	88,2	89,3	89,0	0,85	36,2	22,0	20,9	2,3	7,0	3,1	0,061	81	65	105	EFF 2
52.	Sg160L-4	15,0	20,0	1460	98,0	89,1	89,9	89,5	0,87	48,0	29,2	27,7	2,4	7,3	3,2	0,075	88	65	125	EFF 2
53.	Sg180M-4	18,5	25,0	1470	120	90,0	90,9	90,5	0,90	56,8	34,5	32,8	2,4	6,8	2,9	0,135	88	73	165	EFF 2
54.	Sg180L-4	22,0	30,0	1465	143	90,4	91,3	91,0	0,90	67,2	40,8	38,8	2,7	7,3	2,8	0,155	88	73	175	EFF 2
55.	Sg200L4	30,0	40,0	1472	195	91,7	92,5	92,5	0,88	91,8	56,0	53,0	2,9	7,1	2,5	0,310	84	69	265	EFF 2
56.	Sg225S4	37,0	50,0	1475	240	92,0	93,0	92,6	0,88	114	69,0	66,0	2,1	6,3	2,2	0,440	85	73	320	EFF 1
57.	Sg225M4	45,0	60,0	1480	291	93,9	94,3	94,0	0,88	137	83,0	79,0	2,4	7,0	2,3	0,530	85	73	345	EFF 2
58.	Sg250M4	55,0	75,0	1483	354	93,2	93,9	93,5	0,91	161	98,0	93,0	2,4	7,3	2,6	0,790	87	75	425	EFF 2
59.	Sg280S4	75,0	100	1485	483	92,5	93,5	94,2	0,90	222	134	128	2,5	7,3	2,5	1,37	89	78	575	EFF 2
60.	Sg280M4	90,0	125	1485	579	93,5	94,3	94,8	0,91	262	159	151	2,6	7,3	2,6	1,63	89	78	635	EFF 2
61.	Sg315S4	110	150	1480	710	94,1	94,4	94,2	0,92	317	193	183	2,3	6,8	2,2	1,67	92	78	720	
62.	Sg315M4A	132	175	1487	848	94,5	95,0	94,9	0,90	386	235	223	2,3	7,6	2,5	1,84	92	78	750	
63.	Sg315M4B	160	220	1483	1030	95,8	95,8	95,6	0,91	459	279	265	2,0	6,7	2,4	2,27	92	78	800	
64.	Sg355S4	200	270	1489	1283	93,2	94,7	95,0	0,89	-	-	343	2,0	6,5	2,8	5,30	93	84	1440	
65.	SEE 355ML4A	250	340	1489	1603	95,8	96,4	96,3	0,89	-	-	424	2,0	7,3	2,4	4,90	88	78	1610	
66.	SEE 355ML4B	315	430	1489	2020	96,4	96,7	96,6	0,90	-	-	523	2,2	7,6	2,5	6,20	88	78	1810	
67.	Sh355H4Ds	355	480	1488	2277	96,3	96,7	96,5	0,88	-	-	604	1,5	6,5	2,2	8,20	94	84	2190	
68.	Sh355H4Es	400	540	1489	2565	96,4	96,8	96,7	0,88	-	-	678	1,8	7,0	2,3	9,10	94	84	2320	
69.	Sh400H4Cs	450	610	1491	2882	96,3	96,9	96,9	0,86	-	-	780	1,4	7,0	2,5	9,90	95	84	2920	
70.	Sh400H4Ds	500	680	1491	3200	96,5	97,0	97,0	0,86	-	-	865	1,6	7,5	2,5	11,0	95	84	3050	
71.	Sh400H4Es	560	760	1490	3588	96,6	96,9	96,9	0,87	-	-	960	1,5	6,9	2,4	12,2	95	84	3180	
72.	Sh400H4Fs	630	850	1490	4038	96,6	96,9	96,9	0,87	-	-	1080	1,4	6,9	2,3	13,4	95	84	3320	
73.	Sh450H4Bs	710	960	1492	4543	96,8	97,1	97,1	0,89	-	-	688[1]	1,0	6,7	2,3	27,5	96	84	3980	
74.	Sh450H4Cs	800	1080	1492	5118	96,8	97,1	97,1	0,89	-	-	776[1]	1,0	6,8	2,3	30,7	96	84	4200	
75.	Sh450H4Ds	900	1220	1494	6754	96,8	97,2	97,2	0,89	-	-	872[1]	1,1	7,5	2,5	35,7	96	84	4550	
76.	Sh450H4Es	1000	1360	1494	6393	96,9	97,3	97,3	0,89	-	-	967[1]	1,1	7,5	2,5	39,8	96	84	4800	

[1] *at rated voltage 690V*

Totally enclosed motors IP55

Item	Type	Rated output		Rated speed	Rated torque	Efficiency			Power factor	Full load current			Locked rotor torque	Locked rotor current	Breakdown torque	Moment of inertia	Sound power level	Sound pressure level	Weight (IM B3)
		P_N		n_N	T_N	η_N [%] at % of full load			$\cos\varphi_N$	I_N at rated voltage			T_L/T_N	I_L/I_N	T_b/T_N	J	L_{wA}	L_{pA}	m
		[kW]	[HP]	[rpm]	[Nm]	50%	75%	100%	[-]	$[A]_{230V}$	$[A]_{380V}$	$[A]_{400V}$	[-]	[-]	[-]	[kgm²]	[dB]	[dB]	[kg]
									2p=6		*n_s=1000* rpm								
77.	Sg 56-6B	0,06	0,08	900	0,637	34,0	36,0	40,0	0,65	0,60	0,35	0,35	1,50	1,8	1,6	0,00019	62	55	3,4
78.	Sg 63-6A	0,09	0,12	820	1,05	26,0	32,0	40,0	0,75	0,80	0,45	0,45	1,15	1,9	1,3	0,00024	57	50	3,6
79.	Sg 63-6B	0,12	0,17	880	1,30	40,0	46,0	53,0	0,70	0,85	0,50	0,50	1,1	2,6	1,6	0,00031	62	55	4,2
80.	Sh 71-6A	0,18	0,25	890	1,91	47,0	54,0	57,0	0,68	1,30	0,75	0,75	1,9	2,6	1,9	0,00074	57	50	4,9
81.	Sh 71-6B	0,25	0,33	880	2,65	45,0	52,0	55,0	0,70	1,75	1,0	1,0	1,9	2,5	1,9	0,00095	59	52	5,8
82.	Sh 80-6A	0,37	0,50	900	3,93	61,0	63,0	64,0	0,64	2,6	1,5	1,5	1,9	3,0	2,1	0,00169	59	52	7,3
83.	Sh 80-6B	0,55	0,75	900	5,84	62,0	65,0	67,0	0,72	3,0	1,75	1,75	1,7	3,4	1,9	0,00207	59	52	8,9
84.	Sh 90S-6	0,75	1,00	915	7,83	70,2	73,3	72,4	0,72	3,6	2,2	2,1	1,9	3,7	2,2	0,0020	63	58	13,5
85.	Sh 90L-6	1,10	1,50	920	11,42	73,5	76,2	75,4	0,71	4,6	3,1	2,9	2,2	4,0	2,2	0,0028	71	58	16,5
86.	Sg 100L-6	1,50	2,00	945	15,16	74,0	76,9	76,7	0,73	6,8	4,1	3,9	1,9	4,6	2,3	0,0090	71	60	24,0
87.	Sg 112M-6	2,20	3,00	960	21,89	81,6	83,8	83,8	0,78	8,3	5,1	4,8	2,2	5,9	2,8	0,0177	71	60	33,0
88.	Sg 132S-6	3,00	4,00	950	30,16	79,2	81,5	81,0	0,78	11,8	7,2	6,8	2,1	5,4	2,8	0,025	76	64	54,0
89.	Sg 132M-6A	4,00	5,50	950	40,21	83,5	84,8	84,0	0,79	14,9	9,1	8,6	2,4	6,0	3,1	0,032	76	64	66,0
90.	Sg 132M-6B	5,50	7,50	950	55,29	84,8	85,9	85,0	0,79	20,4	12,4	11,8	2,7	6,3	3,1	0,040	76	64	72,0
91.	Sg 160M-6	7,50	10,0	960	74,61	86,6	87,9	87,5	0,81	26,3	16,0	15,2	2,3	6,5	3,1	0,072	80	65	100
92.	Sg 160L-6	11,0	15,0	960	109,4	88,3	89,2	88,5	0,82	37,9	23,0	21,9	2,4	7,0	3,1	0,096	80	65	125
93.	Sg 180L-6	15,0	20,0	975	146,9	88,0	89,2	89,0	0,84	50,3	30,5	29,0	2,8	6,0	2,4	0,22	84	65	170
94.	Sg 200L6A	18,5	25,0	980	180,0	90,0	90,8	90,5	0,86	60,0	36,0	34,5	2,5	6,8	2,4	0,41	75	65	250
95.	Sg 200L6B	22,0	30,0	981	214,0	90,0	90,8	90,5	0,88	69,0	42,0	40,0	2,4	6,9	2,2	0,47	75	65	265
96.	Sg 225M6	30,0	40,0	982	292,0	91,5	92,3	91,9	0,88	94,0	56,0	54,0	2,1	6,3	2,2	0,76	82	67	325
97.	Sg 250M6	37,0	50,0	985	359,0	92,0	92,8	92,5	0,89	113	68,0	65,0	2,6	6,8	2,3	1,23	85	68	430
98.	Sg 280S6	45,0	60,0	985	436,0	91,8	93,0	93,0	0,87	139	85,0	80,0	2,0	6,5	2,3	1,35	88	70	525
99.	Sg 280M6	55,0	75,0	985	533,0	93,2	93,5	93,5	0,89	165	100	95,0	2,2	6,2	2,2	1,61	88	70	565
100.	Sg 315S6	75,0	100	985	727,0	93,2	93,6	93,5	0,89	225	137	130	2,3	6,6	2,2	2,16	88	70	730
101.	Sg 315M6A	90,0	125	984	873,0	92,8	93,8	93,7	0,88	274	166	158	2,5	6,8	2,0	2,29	88	70	740
102.	Sg 315M6B	110	150	985	1066	93,0	94,0	94,2	0,89	327	199	189	2,3	7,2	2,1	2,86	88	70	840
103.	Sg 315M6C	132	175	987	1278	94,0	94,5	94,5	0,86	-	-	235	2,0	6,5	2,7	5,10	84	75	1065
104.	Sg 355S6	160	220	989	1544	94,0	94,6	94,5	0,86	-	-	284	1,6	5,5	2,2	7,50	87	78	1330
105.	SEE 355ML6A	200	270	990	1928	95,5	96,0	95,8	0,86	-	-	351	2,2	7,1	2,3	6,20	84	75	1650
106.	SEE 355ML6B	250	340	990	2412	95,7	96,1	95,9	0,86	-	-	437	2,2	7,1	2,4	7,70	87	75	1790
107.	Sh 355H6Cs	315	430	991	3034	96,0	96,2	96,1	0,86	-	-	550	1,9	7,0	2,2	11,0	90	78	2370
108.	Sh 355H6Ds	355	480	991	3421	96,0	96,1	96,1	0,86	-	-	621	2,0	7,3	2,0	12,0	90	78	2450
109.	Sh 400H6Bs	400	540	993	3845	95,5	96,1	96,1	0,82	-	-	734	1,3	6,4	2,1	20,5	92	80	3075
110.	Sh 400H6Cs	450	610	993	4328	95,7	96,2	96,1	0,83	-	-	815	1,3	6,3	2,0	22,1	93	80	3240
111.	Sh 450H6As	500	680	994	4803	96,6	96,9	96,8	0,88	-	-	491[1]	1,2	6,7	2,6	36,5	95	82	3800
112.	Sh 450H6Bs	560	760	994	5379	96,7	97,0	96,9	0,88	-	-	549[1]	1,2	6,8	2,6	40,6	95	82	4010
113.	Sh 450H6Cs	630	850	994	6050	96,7	97,1	97,0	0,89	-	-	611[1]	1,3	7,0	2,6	45,0	95	82	4300
114.	Sh 450H6Ds	710	960	994	6821	96,7	97,0	97,0	0,89	-	-	689[1]	1,3	7,2	2,5	49,0	95	82	4550

[1] *at rated voltage 690V*

TECHNICAL DATA

Totally enclosed motors IP55

Item	Type	Rated output		Rated speed	Rated torque	Efficiency			Power factor	Full load current			Locked rotor torque	Locked rotor current	Breakdown torque	Moment of inertia	Sound power level	Sound pressure level	Weight (IMB3)
		P_N		n_N	T_N	η_N [%] at % of full load			$\cos\varphi_N$	I_N at rated voltage			T_L/T_N	I_L/I_N	T_b/T_N	J	L_{wA}	L_{pA}	m
		[kW]	[HP]	[rpm]	[Nm]	50%	75%	100%	[-]	$[A]_{230V}$	$[A]_{380V}$	$[A]_{400V}$	[-]	[-]	[-]	[kgm^2]	[dB]	[dB]	[kg]
									2p=8		*n_s=750* rpm								
115.	Sg63-8A	0,04	0,05	670	0,57	20,0	31,0	35,0	0,60	0,60	0,35	0,35	1,6	1,7	1,7	0,000240	57	50	3,6
116.	Sg 63-8B	0,06	0,08	670	0,85	25,0	34,0	38,0	0,60	0,80	0,45	0,45	1,6	1,7	1,7	0,000307	57	50	4,2
117.	Sh 71-8A	0,09	0,12	680	1,26	25,0	31,0	35,0	0,60	1,15	0,65	0,65	1,9	1,9	1,9	0,000736	57	50	4,9
118.	Sh 71-8B	0,12	0,17	670	1,71	40,0	45,0	47,0	0,63	1,25	0,70	0,70	1,7	1,9	1,8	0,000946	57	50	5,8
119.	Sh 80-8A	0,18	0,25	690	2,49	43,0	51,0	53,0	0,63	1,31	0,76	0,76	1,6	2,8	1,7	0,001693	57	52	7,5
120.	Sh 80-8B	0,25	0,33	680	3,51	52,0	55,0	57,0	0,64	1,66	0,96	0,96	1,6	2,9	1,8	0,00207	59	52	8,9
121.	Sh 90S-8	0,37	0,50	695	5,08	54,2	60,8	63,4	0,59	2,40	1,50	1,40	1,7	2,9	2,3	0,00210	59	53	13,4
122.	Sh 90L-8	0,55	0,75	675	7,78	60,3	65,2	65,0	0,64	3,30	2,00	1,90	1,7	2,8	1,9	0,0024	61	53	15,3
123.	Sg 100L-8A	0,75	1,00	710	10,1	65,9	70,5	71,1	0,66	4,00	2,40	2,30	1,4	3,5	1,9	0,0090	71	56	23,6
124.	Sg 100L-8B	1,10	1,50	705	14,9	67,6	71,8	72,2	0,65	5,90	3,60	3,40	1,6	3,6	1,9	0,0100	71	56	26,3
125.	Sg 112M-8	1,50	2,00	720	19,9	72,5	76,2	76,8	0,71	6,90	4,20	4,00	1,9	4,6	2,3	0,0192	71	56	31,0
126.	Sg 132S-8	2,20	3,00	710	29,6	75,4	78,2	78,0	0,74	9,50	5,80	5,50	2,0	4,7	2,4	0,033	71	59	53,0
127.	Sg 132M-8	3,00	4,00	710	40,4	78,5	80,7	80,0	0,74	12,6	7,70	7,30	2,3	5,0	3,0	0,044	76	59	65,0
128.	Sg 160M-8A	4,00	5,50	705	54,2	81,5	82,7	81,5	0,76	16,1	9,80	9,30	2,2	5,0	2,7	0,060	76	61	85,0
129.	Sg 160M-8B	5,50	7,50	710	74,0	82,1	83,7	83,0	0,75	22,0	13,4	12,7	2,7	5,5	3,0	0,077	76	61	95,0
130.	Sg 160L-8	7,50	10,0	705	102	84,5	85,5	84,5	0,78	28,2	17,2	16,3	2,7	5,8	3,0	0,102	80	61	115
131.	Sg 180L-8	11,0	15,0	730	144	87,7	89,2	89,0	0,76	40,7	24,7	23,5	2,0	5,5	2,4	0,213	80	64	165
132.	Sg 200L8	15,0	20,0	733	196	88,8	90,0	89,5	0,83	50,0	30,7	29,1	2,2	5,5	2,1	0,450	72	63	255
133.	Sg 225S8	18,5	25,0	735	240	88,8	90,0	89,5	0,81	64,0	39,0	37,0	2,0	5,6	2,0	0,580	82	63	280
134.	Sg 225M8	22,0	30,0	735	286	90,0	90,8	90,4	0,80	76,0	46,0	44,0	2,0	5,2	1,8	0,680	82	63	315
135.	Sg 250M8	30,0	40,0	738	388	91,0	92,0	91,5	0,84	97,0	59,0	56,0	2,5	6,3	2,1	1,27	80	66	430
136.	Sg 280S8	37,0	50,0	737	479	92,0	93,1	92,8	0,83	120	73,0	69,0	2,0	5,3	1,8	1,47	80	67	535
137.	Sg 280M8	45,0	60,0	737	583	92,0	92,8	92,5	0,84	146	88,0	84,0	2,1	5,4	2,0	1,80	80	67	590
138.	Sg 315S8	55,0	75,0	735	715	92,0	93,0	92,7	0,81	184	111	106	2,0	5,3	1,9	2,16	82	70	720
139.	Sg 315M8A	75,0	100	737	972	92,5	93,5	93,2	0,82	246	149	142	2,5	6,2	1,9	2,29	82	70	750
140.	Sg 315M8B	90,0	125	737	1166	92,5	93,5	93,2	0,82	294	179	170	2,4	6,5	1,9	2,86	82	70	840
141.	Sg 315M8C	110	150	740	1419	92,3	93,1	93,0	0,84	-	-	203	1,6	6,7	2,9	5,10	86	75	1060
142.	Sg 355S8	132	175	741	1701	93,7	94,7	94,8	0,80	-	-	351	1,3	5,5	2,0	7,20	87	76	1320
143.	SEE 355ML8A	160	220	739	2067	95,1	95,5	95,0	0,80	-	-	306	1,6	5,8	2,0	6,10	85	74	1600
144.	SEE 355ML8B	200	270	740	2582	95,1	95,6	95,2	0,79	-	-	384	1,8	6,2	2,1	7,50	85	74	1750
145.	Sh 355H8Ds	350	340	744	3209	95,5	96,0	95,8	0,77	-	-	483	1,3	6,0	2,0	12,0	86	75	2440
146.	Sh 355H8Es	315	430	749	4016	95,6	96,0	95,8	0,78	-	-	609	1,4	6,1	2,0	13,5	86	75	2590

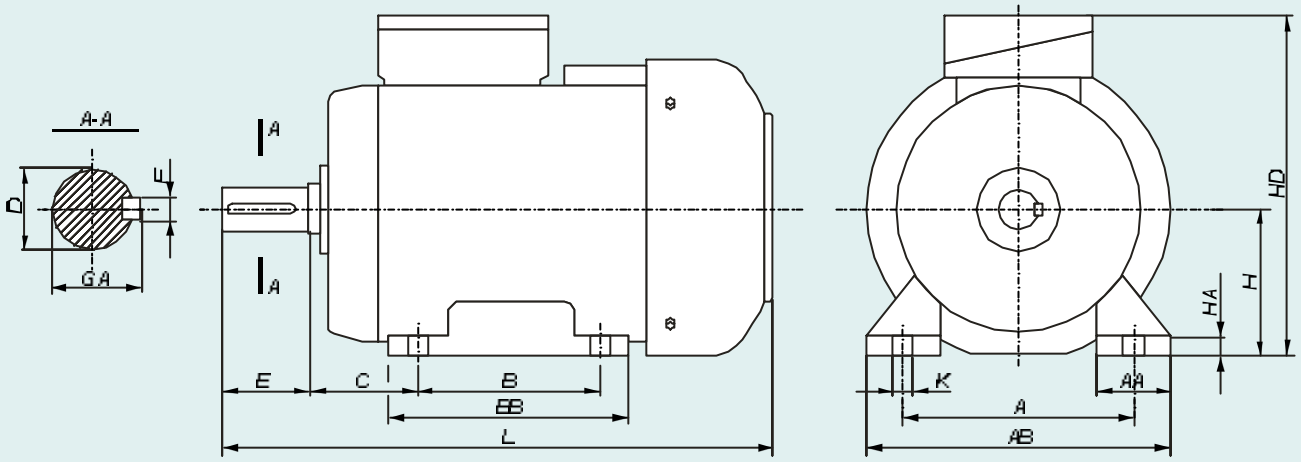
Totally enclosed motors IP 55

Item	Type	Rated output		Rated speed	Rated torque	Efficiency			Power factor	Full load current			Locked rotor torque	Locked rotor current	Breakdown torque	Moment of Inertia	Sound power Level	Sound pressure level	Weight (IMB3)
		P_N		n_N	T_N	η_N [%] at% of full load			cos φ_N	I_N at rated voltage			T_L/T_N	I_L/I_N	T_b/T_N	J	L_{wA}	L_{pA}	m
		[kW]	[HP]	[rpm]	[Nm]	50%	75%	100%	[-]	$[A]_{230V}$	$[A]_{380V}$	$[A]_{400V}$	[-]	[-]	[-]	[kgm²]	[dB]	[dB]	[kg]
								2p=10		n_s=600 rpm									
147.	Sg 200L10A	7,5	10,0	580	123	82,5	84,0	85,0	0,68	32,5	19,7	18,7	1,7	3,5	2,1	0,40	78	68	240
148.	Sg 200L10B	11,0	15,0	590	178	84,7	86,7	87,5	0,68	46,5	28,1	26,7	3,2	5,9	2,4	0,47	78	68	255
149.	Sg 225S10	13,0	18,0	580	214	83,5	85,0	86,0	0,68	55,5	33,8	32,1	1,8	3,8	2,0	0,60	80	70	305
150.	Sg 225M10	15,0	20,0	590	243	86,0	88,0	89,0	0,67	63,0	38,2	36,3	2,8	5,4	2,0	0,76	80	70	325
151.	Sg 250M10	22,0	30,0	585	359	84,0	86,2	87,0	0,67	93,5	57,0	54,0	2,0	4,3	2,0	1,27	80	70	450
152.	Sg 280S10	37,0	50,0	588	601	87,0	90,0	91,0	0,74	137,0	83,0	79,0	1,9	4,5	1,5	1,35	82	72	520
153.	Sg 280M10	45,0	60,0	587	732	88,0	90,5	91,6	0,76	161,0	98,0	93,0	2,0	4,5	1,6	1,61	82	72	570
154.	Sg 315S10	45,0	60,0	588	731	90,0	91,5	92,1	0,71	171,0	105,0	99,0	2,0	4,1	2,0	2,16	85	75	720
155.	Sg 315S10Z	55,0	75,0	583	901	88,0	90,5	91,5	0,75	201,0	122,0	116,0	1,7	4,7	1,9	2,86	85	75	840
156.	Sg 315M10	75,0	100	583	1229	88,0	90,5	91,5	0,75	274,0	166,0	158,0	1,8	4,9	1,5	3,01	85	75	895
157.	Sg355S10	75,0	100	592	1211	92,3	93,5	93,3	0,78	-	-	148,9	1,3	5,6	2,2	6,80	86	75	1150
158.	Sg 355S10A	90,0	125	592	1453	92,9	93,9	93,8	0,78	-	-	177,8	1,4	5,9	2,3	8,20	97	77	1250
159.	Sg 355S10B	110	150	592	1775	93,4	94,2	94,0	0,79	-	-	214,1	1,4	5,9	2,3	10,3	87	77	1390
160.	Sg 355M10A	132	175	592	2131	93,9	94,6	94,4	0,80	-	-	252,6	1,5	6,0	2,3	12,7	87	77	1620
161.	Sg 355M10B	160	220	592	2582	93,8	94,8	94,8	0,79	-	-	308,7	1,6	6,3	2,5	14,1	87	77	1730
								2p=12		n_s=500 rpm									
162.	Sg 200L12	9,0	12,0	490	175	80,5	82,0	81,8	0,55	50,0	30,5	28,9	2,7	4,3	2,5	0,47	78	68	255
163.	Sg 225S12	11,0	15,0	475	221	80,7	82,2	82,0	0,59	57,0	34,5	32,8	1,7	3,5	1,7	0,58	80	70	320
164.	Sg 225M12	13,0	18,0	475	261	81,5	82,2	82,5	0,59	67,0	40,5	38,6	1,7	3,5	1,7	0,68	80	70	350
165.	Sg 250M12	18,5	25,0	480	368	83,0	85,0	84,5	0,59	94,0	56,0	54,0	1,7	3,5	1,8	1,27	80	70	450
166.	Sg 280S12	22,0	30,0	485	433	85,0	87,0	87,0	0,61	104	63,0	60,0	1,8	3,5	1,8	1,35	81	71	520
167.	Sg 280M12	30,0	40,0	485	591	85,0	87,0	87,5	0,62	139	84,0	80,0	1,8	3,5	1,8	1,61	81	71	570
168.	Sg 315S12	37,0	50,0	490	721	87,1	89,3	89,0	0,58	180	109	104,0	2,0	3,5	1,9	2,16	84	74	720
169.	Sg 315M12A	45,0	60,0	490	877	87,1	89,3	89,0	0,58	218	132	126,0	2,0	3,5	1,8	2,86	84	74	890
170.	Sg 315M12B	55,0	75,0	490	1072	87,5	90,0	89,5	0,58	265	161	153,0	2,0	3,8	1,8	3,01	84	74	930
171.	Sg 355S12	75,0	100	491	1460	91,7	93,1	93,0	0,75	-	-	155,4	1,2	4,5	1,9	8,30	86	75	1250
172.	Sg 355S12A	90,0	125	491	1751	92,6	93,7	93,5	0,75	-	-	185,5	1,3	5,0	2,0	10,4	86	75	1390
173.	Sg 355S12B	110	150	491	2141	92,6	93,7	93,5	0,75	-	-	226,7	1,3	5,0	2,0	12,1	87	76	1570
174.	Sg 355M12	132	175	492	2564	92,0	93,4	93,8	0,75	-	-	271,1	1,4	5,4	2,1	13,1	89	78	1730

TECHNICAL DATA

FOOT MOUNTED MOTORS - IMB3

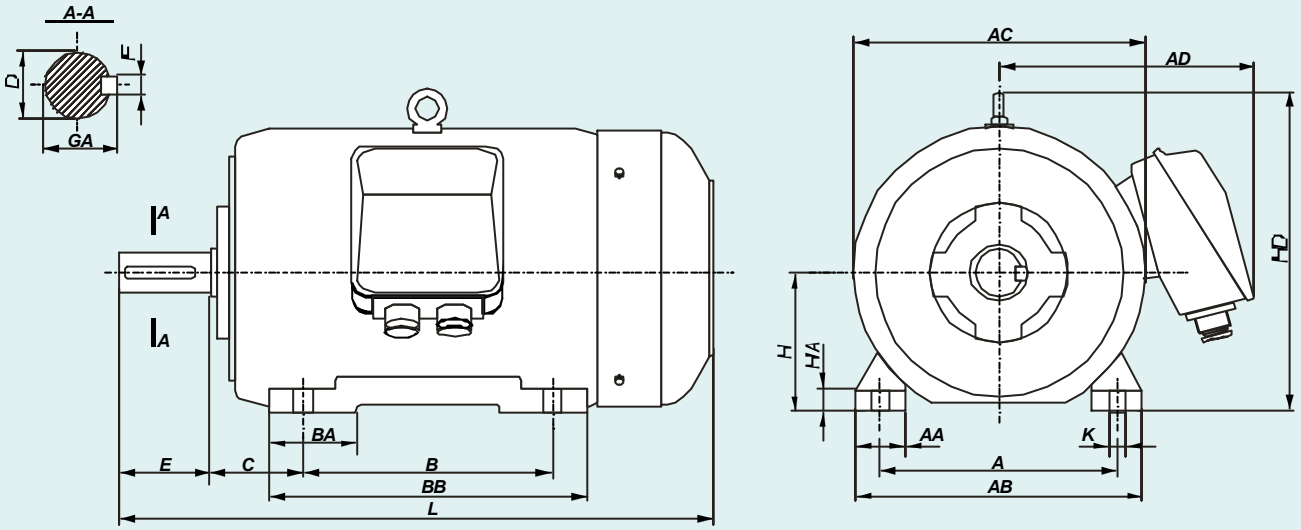
DIMENSION DRAWINGS



Motortype	A	B	C	D	E	F	GA	H	HA	K	AA	AB	BB	HD	L
Sg56-2A	90	71	36	9j6	20	3h9	10,2	56	7	5,8	30	110	92	154	188
Sg56-4A	90	71	36	9j6	20	3h9	10,2	56	7	5,8	30	110	92	154	149*
Sg56-2B	90	71	36	9j6	20	3h9	10,2	56	7	5,8	30	110	92	154	196
Sg56-4B	90	71	36	9j6	20	3h9	10,2	56	7	5,8	30	110	92	154	157*
Sg56-6B	90	71	36	9j6	20	3h9	10,2	56	7	5,8	30	110	92	154	196
Sg63-.A	100	80	40	11j6	23	4h9	12,5	63	8,5	7	36	124	106	165	202
Sg63-.B	100	80	40	11j6	23	4h9	12,5	63	8,5	7	36	124	106	165	214
Sh71-.A	112	90	45	14j6	30	5h9	16,0	71	8	7	45	142	116	182	223
Sh71-.B	112	90	45	14j6	30	5h9	16,0	71	8	7	45	142	116	182	245
Sh80-.A	125	100	50	19j6	40	6h9	21,5	80	9	10	55	160	130	195	266
Sh80-.B	125	100	50	19j6	40	6h9	21,5	80	9	10	55	160	130	195	278
Sh90S...	140	100	56	24j6	50	8h9	27,0	90	10	10	50	170	153	220	305
Sh90L...	140	125	56	24j6	50	8h9	27,0	90	10	10	50	170	153	220	330
Sg100L...	160	140	63	28j6	60	8h9	31,0	100	14	12	45	200	172	240	376
Sg112M...	190	140	70	28j6	60	8h9	31,0	112	14	12	54	230	174	276	384
Sg132S...	216	140	89	38k6	80	10h9	41,0	132	16	12	56	278	182	310	463
Sg132S-2B	216	140	89	38k6	80	10h9	41,0	132	16	12	56	278	220	310	501
Sg132M...	216	178	89	38k6	80	10h9	41,0	132	16	12	56	278	220	310	501
Sg160M...	254	210	108	42k6	110	12h9	45,0	160	20	15	60	305	256	370	612
Sg160L...	254	254	108	42k6	110	12h9	45,0	160	20	15	60	305	300	370	656
Sg180M ...	279	241	121	48k6	110	14h9	51,5	180	26	15	70	350	320	408	705
Sg180L...	279	279	121	48k6	110	14h9	51,5	180	26	15	70	350	320	408	705

** - the Sg56-4A and 4B motorsintheirstandardversionhaveneither fannorfancover*

FOOT MOUNTED MOTORS - IMB3

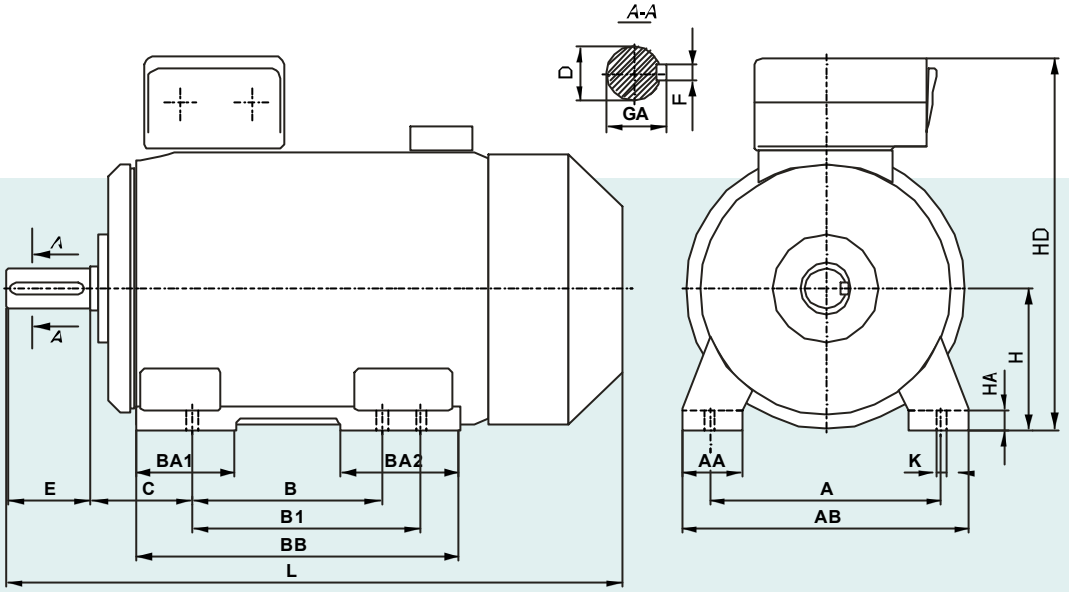


DIMENSION DRAWINGS

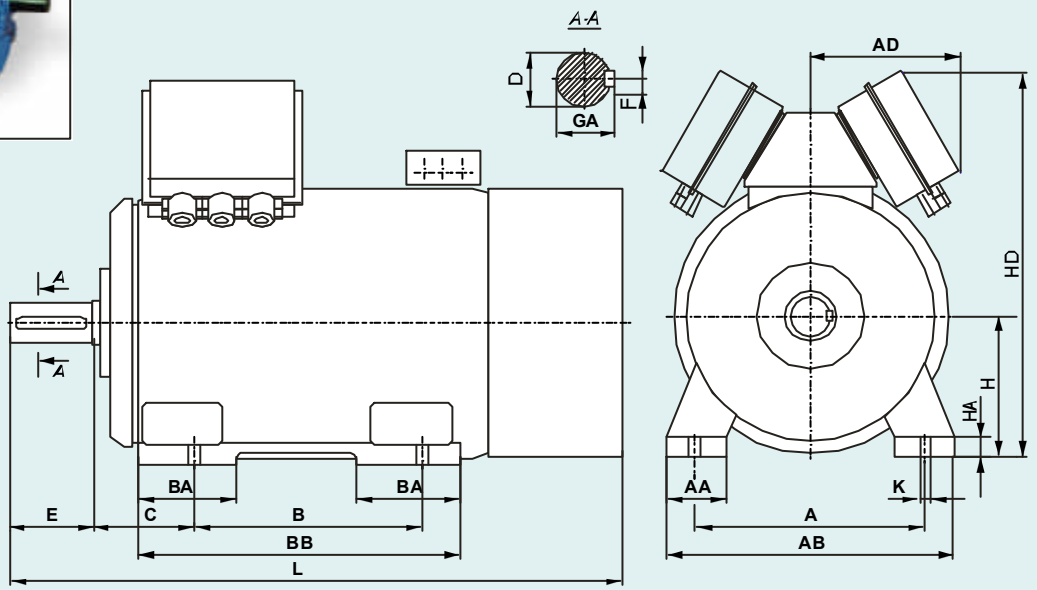
Motortype	A	B	C	D	E	F	GA	H	HA	K	AA	AB	AC	AD	BA	BB	HD	L
Sg200L2÷12	318	305	133	55m6	110	16h9	59,0	200	32	19	80	400	450	355	100	380	485	810
Sg225S4÷12	356	286	149	60m6	140	18h9	64,0	225	34	19	85	445	505	375	110	355	535	860
Sg225M2	356	311	149	55m6	110	16h9	59,0	225	34	19	85	445	505	375	110	380	535	855
Sg225M4÷12	356	311	149	60m6	140	18h9	64,0	225	34	19	85	445	505	375	110	380	535	885
Sg250M2	406	349	168	60m6	140	18h9	64,0	250	36	24	90	495	540	415	120	420	590	980
Sg250M4÷12	406	349	168	65m6	140	18h9	69,0	250	36	24	90	495	540	415	120	420	590	980
Sg280S2	457	368	190	65m6	140	18h9	69,0	280	40	24	100	560	620	450	165	520	660	1040
Sg280S4÷12	457	368	190	75m6	140	20h9	79,5	280	40	24	100	560	620	450	165	520	660	1040
Sg280M2	457	419	190	65m6	140	18h9	69,0	280	40	24	100	560	620	450	165	520	660	1040
Sg280M4÷12	457	419	190	75m6	140	20h9	79,5	280	40	24	100	560	620	450	165	520	660	1040
Sg315S2	508	406	216	65m6	140	18h9	69,0	315	46	28	105	610	620	450	190	560	695	1180
Sg315S4÷12	508	406	216	80m6	170	22h9	85,0	315	46	28	105	610	620	450	190	560	695	1210
Sg315M2	508	457	216	65m6	140	18h9	69,0	315	46	28	105	610	620	450	190	560	695	1180
Sg315M4÷12	508	457	216	80m6	170	22h9	85,0	315	46	28	105	610	620	450	190	560	695	1210
Sg315M6÷8C	508	457	216	80m6	170	22h9	85,5	315	45	28	130	640	694	585	150	550	750	1240
Sg355S2	610	500	254	80m6	170	22h9	85,0	355	50	28	158	720	764	620	170	600	848	1354
Sg355S4÷12	610	500	254	100m6	210	28h9	106,0	355	50	28	158	720	764	620	170	600	848	1394
Sg355M10÷12	610	560	254	100m6	210	28h9	106,0	355	50	28	158	720	764	620	205	730	848	1454

FOOT MOUNTED MOTORS - IM B3

DIMENSION DRAWINGS

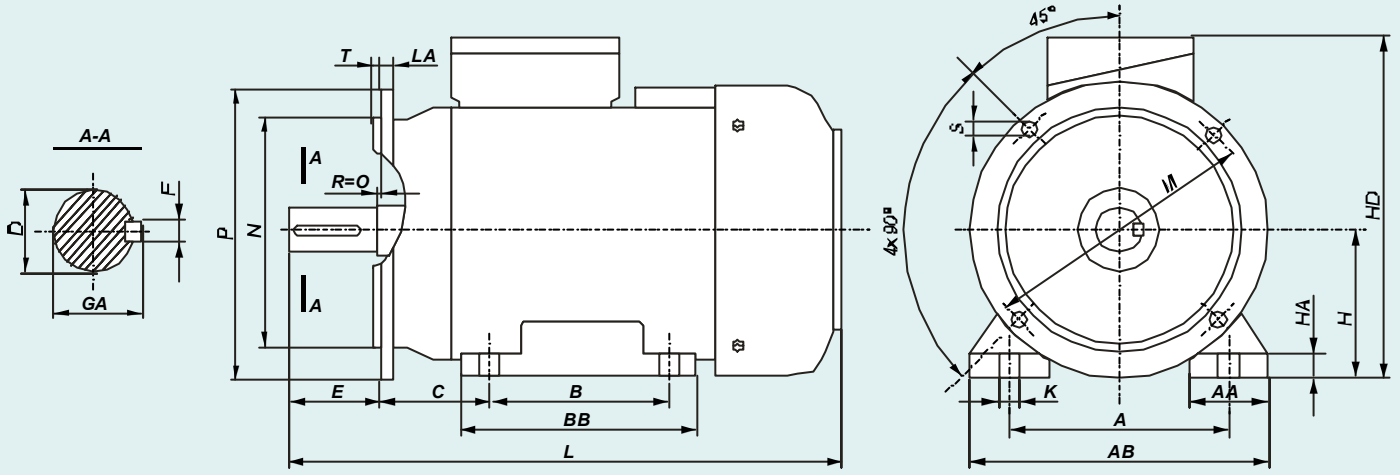


Motortype	No.of poles	A	B	B1	C	D	E	F	GA	H	HA	K	AA	AB	BA1	BA2	BB	HD	L
SEE355	2	610	560	630	254	80	170	22	85	355	50	28	150	720	250	300	890	935	1580
SEE355	4÷8	610	560	630	254	100	210	28	106	355	50	28	150	720	250	300	890	935	1620
Sh355...s	2	610	900	---	200	70	140	20	75	355	45	28	160	730	265	265	1045	995	1800
Sh355...s	4÷8	610	900	---	200	100	210	28	106	355	45	28	160	730	265	265	1045	995	1870



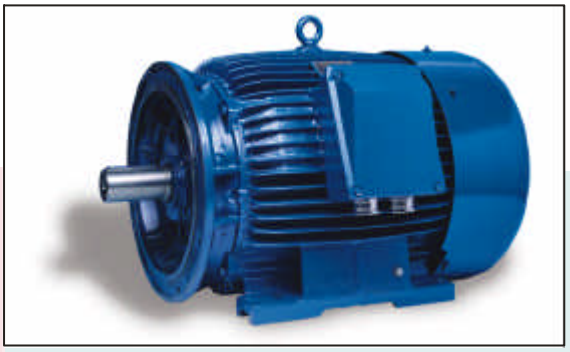
Motortype	No.of poles	A	B	C	D	E	F	GA	H	HA	K	AA	AB	AD	BA	BB	HD	L
Sh400...s	2	686	1000	224	80	170	22	85	400	50	35	180	840	565	265	1160	1277	1975
Sh400...s	4÷8	686	1000	224	110	210	28	116	400	50	35	180	840	565	265	1160	1277	1960
Sh450...s	4÷8	750	1120	254	110	210	28	116	450	60	35	205	940	572	340	1320	1356	2090

FOOT/FLANGE MOUNTED MOTORS - IM B35

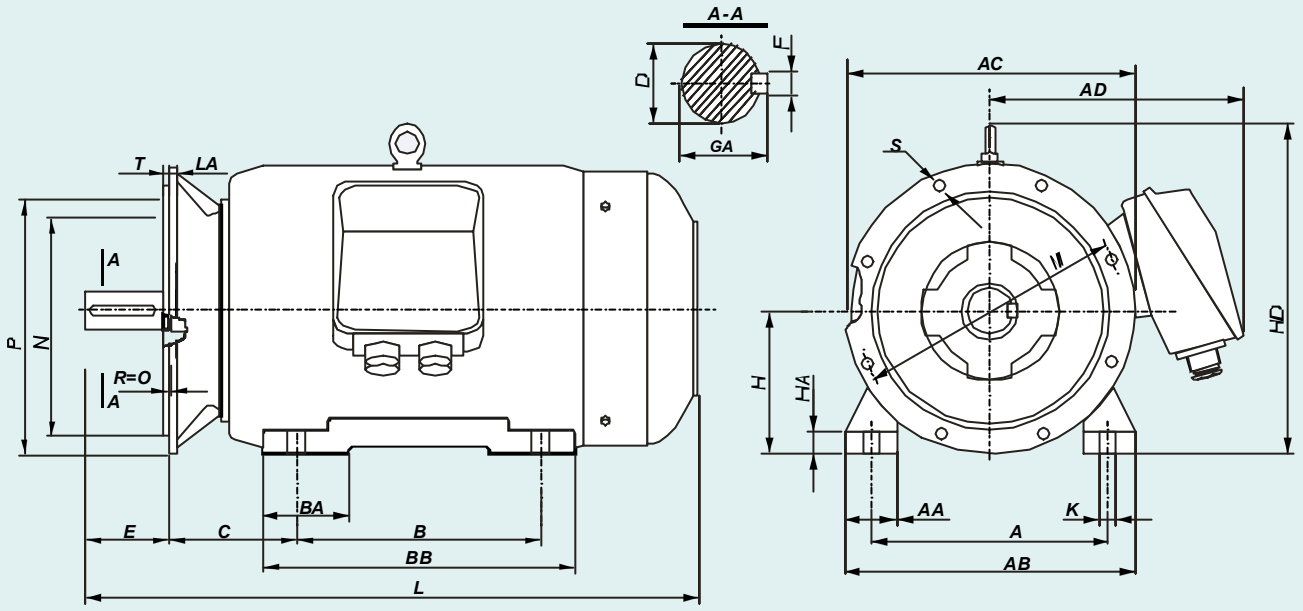


Motortype	A	B	C	D	E	F	GA	H	HA	K	AA	AB	BB	HD	L	LA	M	N	P	T	S
SLg56-2A	90	71	36	9j6	20	3h9	10,2	56	7,0	8,0	30	110	92	154	188	8	100	80j6	120	3,0	7
SLg56-4A	90	71	36	9j6	20	3h9	10,2	56	7,0	8,0	30	110	92	154	149	8	100	80j6	120	3,0	7
SLg56-2B	90	71	36	9j6	20	3h9	10,2	56	7,0	8,0	30	110	92	154	196	8	100	80j6	120	3,0	7
SLg56-4B	90	71	36	9j6	20	3h9	10,2	56	7,0	8,0	30	110	92	154	157	8	100	80j6	120	3,0	7
SLg56-6B	90	71	36	9j6	20	3h9	10,2	56	7,0	8,0	30	110	92	154	196	8	100	80j6	120	3,0	7
SLg63-.A	100	80	40	11j6	23	4h9	12,5	63	8,5	10,0	36	124	106	165	202	9	115	95j6	140	3,0	10
SLg63-.B	100	80	40	11j6	23	4h9	12,5	63	8,5	10,0	36	124	106	165	214	9	115	95j6	140	3,0	10
SLh71-.A	112	90	45	14j6	30	5h9	16,0	71	8,0	10,0	45	142	116	182	223	9	130	110j6	160	3,5	10
SLh71-.B	112	90	45	14j6	30	5h9	16,0	71	8,0	10,0	45	142	116	182	245	9	130	110j6	160	3,5	10
SLh80-.A	125	100	50	19j6	40	6h9	21,5	80	9,0	10,0	55	160	130	195	266	10	165	130j6	200	3,5	12
SLh80-.B	125	100	50	19j6	40	6h9	21,5	80	9,0	10,0	55	160	130	195	278	10	165	130j6	200	3,5	12
SLh90S...	140	100	56	24j6	50	8h9	27,0	90	10,0	10,0	50	170	153	220	305	8	165	130j6	200	3,5	12
SLh90L...	140	125	56	24j6	50	8h9	27,0	90	10,0	10,0	50	170	153	220	330	8	165	130j6	200	3,5	12
SLg100L...	160	140	63	28j6	60	8h9	31,0	100	14,0	12,0	45	200	172	240	376	11	215	180j6	250	4,0	15
SLg112M...	190	140	70	28j6	60	8h9	31,0	112	14,0	12,0	54	230	174	276	384	12	215	180j6	250	4,0	15
SLg132S...	216	140	89	38k6	80	10h9	41,0	132	16,0	12,0	56	278	182	310	463	12	265	230j6	300	4,0	15
SLg132S-2B	216	140	89	38k6	80	10h9	41,0	132	16,0	12,0	56	278	220	310	501	12	265	230j6	300	4,0	15
SLg132M...	216	178	89	38k6	80	10h9	41,0	132	16,0	12,0	56	278	220	310	501	12	265	230j6	300	4,0	15
SLg160M...	254	210	108	42k6	110	12h9	45,0	160	20,0	15,0	60	305	256	370	612	13	300	250j6	350	5,0	19
SLg160L...	254	254	108	42k6	110	12h9	45,0	160	20,0	15,0	60	305	300	370	656	13	300	250j6	350	5,0	19
SLg180M...	279	241	121	48k6	110	14h9	51,5	180	26,0	15,0	70	350	320	408	705	13	300	250j6	350	5,0	19
SLg180L...	279	279	121	48k6	110	14h9	51,5	180	26,0	15,0	70	350	320	408	705	13	300	250j6	350	5,0	19

FOOT/FLANGE MOUNTED MOTORS - IM B35



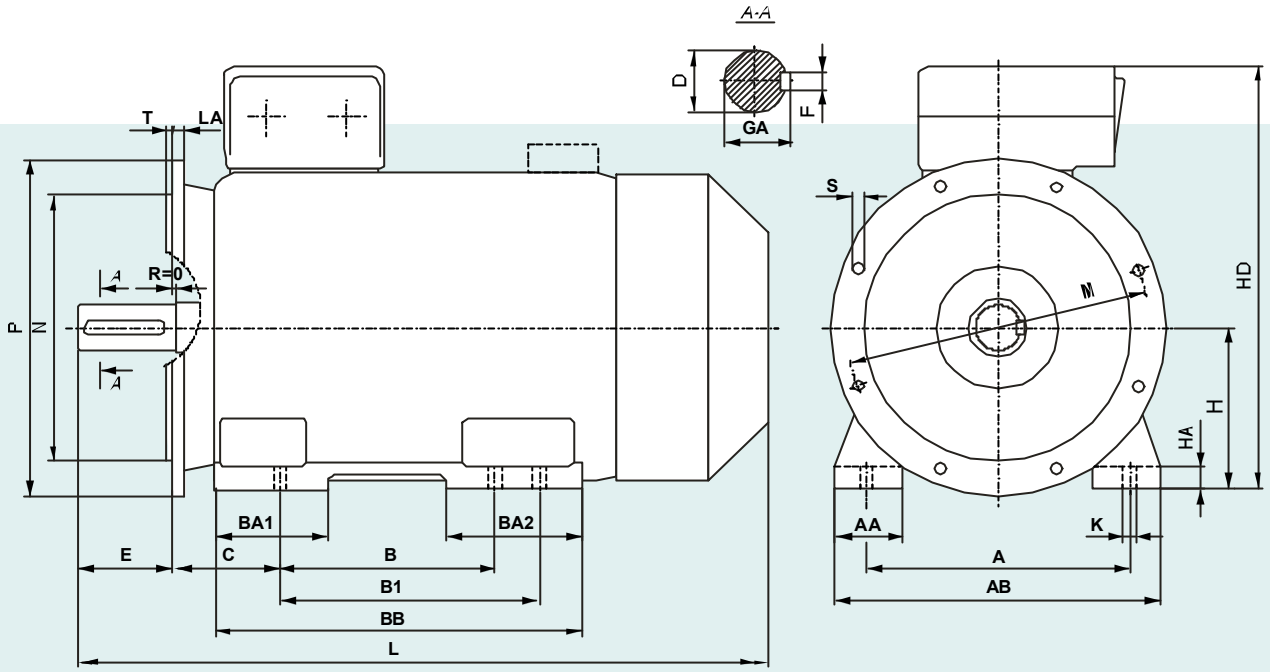
DIMENSION DRAWINGS



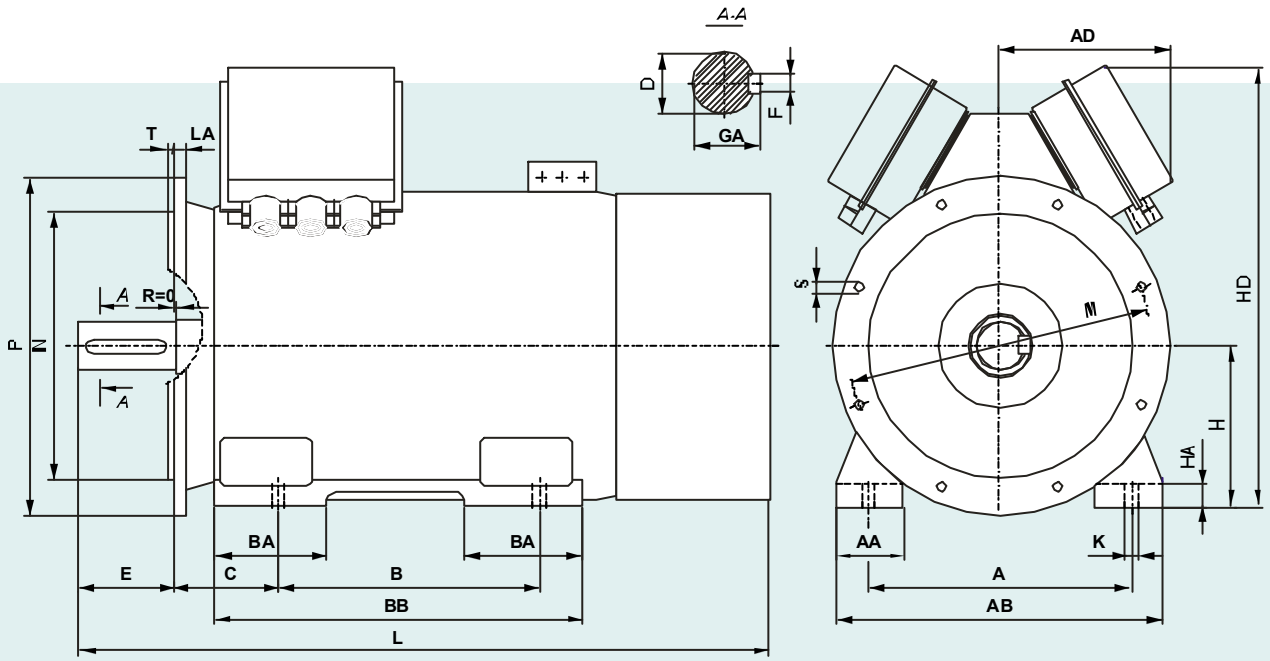
Motortype	A	B	C	D	E	F	GA	H	HA	K	AA	AB	AC	AD	BA	BB	HD	L	LA	M	N	P	T	S	
																								ϕ	holes
SLg200L2÷12	318	305	133	55m6	110	16h9	59	200	32	19	80	400	450	355	100	380	485	810	16,5	350	300	400	5	18	4
SLg225S4÷12	356	286	149	60m6	140	18h9	64	225	34	19	85	445	505	375	110	355	535	860	18	400	350	450	5	18	8
SLg225M2	356	311	149	55m6	110	16h9	59	225	34	19	85	445	505	375	110	380	535	855	18	400	350	450	5	18	8
SLg225M4÷12	356	311	149	60m6	140	18h9	64	225	34	19	85	445	505	375	110	380	535	885	18	400	350	450	5	18	8
SLg250M2	406	349	168	60m6	140	18h9	64	250	36	24	90	495	540	415	120	420	590	980	19	500	450	550	5	18	8
SLg250M4÷12	406	349	168	65m6	140	18h9	69	250	36	24	90	495	540	415	120	420	590	980	19	500	450	550	5	18	8
SLg280S2	457	368	190	65m6	140	18h9	69	280	40	24	100	560	620	450	165	520	660	1040	20	500	450	550	5	18	8
SLg280S4÷12	457	368	190	75m6	140	20h9	79,5	280	40	24	100	560	620	450	165	520	660	1040	20	500	450	550	5	18	8
SLg280M2	457	419	190	65m6	140	18h9	69	280	40	24	100	560	620	450	165	520	660	1040	20	500	450	550	5	18	8
SLg280M4÷12	457	419	190	75m6	140	20h9	79,5	280	40	24	100	560	620	450	165	520	660	1040	20	500	450	550	5	18	8
SLg315S2	508	406	216	65m6	140	18h9	69	315	46	28	105	610	620	450	190	560	695	1180	22	600	550	660	6	22	8
SLg315S4÷12	508	406	216	80m6	170	22h9	85	315	46	28	105	610	620	450	190	560	695	1210	22	600	550	660	6	22	8
SLg315M2	508	457	216	65m6	140	18h9	69	315	46	28	105	610	620	450	190	560	695	1180	22	600	550	660	6	22	8
SLg315M4÷12	508	457	216	80m6	170	22h9	85	315	46	28	105	610	620	450	190	560	695	1210	22	600	550	660	6	22	8
SLg355S2	610	500	254	80m6	170	22h9	85,0	355	50	28	158	720	764	620	170	600	848	1354	24	740	680	800	6	24	8
SLg355S4÷12	610	500	254	100m6	210	28h9	106	355	50	28	158	720	764	620	170	600	848	1394	24	740	680	800	6	24	8
SLg355M10÷12	610	560	254	100m6	210	28h9	106	355	50	28	158	720	764	620	205	730	848	1454	24	740	680	800	6	24	8

themotorsfromSLg200L to *SLg315* arealsoavailableinmountingarrangements *:B65,B75iB85*

FOOT/FLANGE MOUNTED MOTORS - IM B35



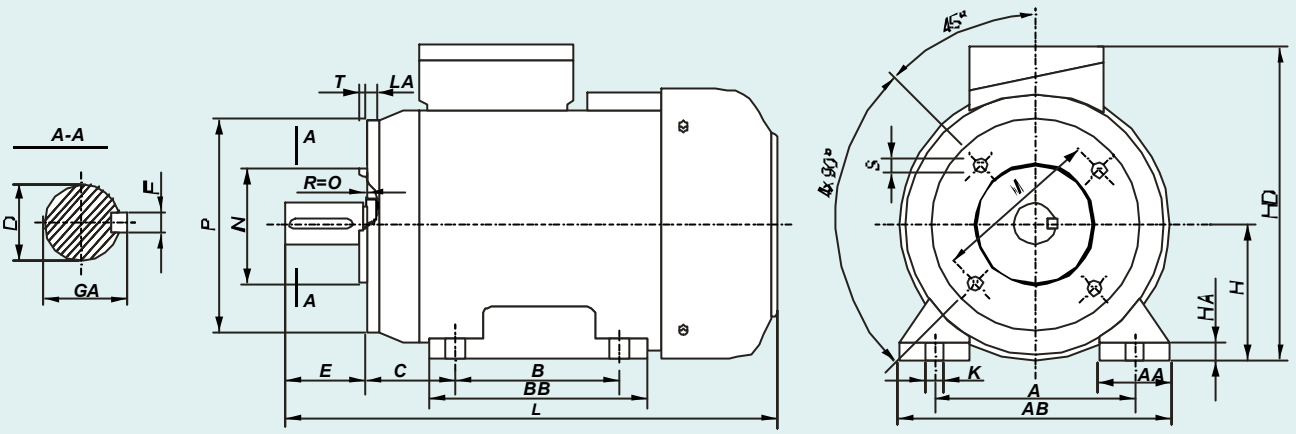
Motortype	No.of poles	A	B	B1	C	D	E	F	GA	H	HA	K	AA	AB	BA1	BA2	BB	HD	L	LA	M	N	P	S	T
SLEE355	2	610	560	630	254	80	170	22	85	355	50	28	150	720	250	300	890	935	1580	24	740	680	800	22	6
SLEE355	4÷8	610	560	630	254	100	210	28	106	355	50	28	150	720	250	300	890	935	1620	24	740	680	800	22	6
SLh355...s	2	610	900	---	254	70	140	20	75	355	45	28	160	730	265	265	1045	995	1854	24	740	680	800	22	6
SLh355...s	4÷8	610	900	---	254	100	210	28	106	355	45	28	160	730	265	265	1045	995	1924	24	740	680	800	22	6



Motortype	No.of poles	A	B	C	D	E	F	GA	H	HA	K	AA	AB	AD	BA	BB	HD	L	LA	M	N	P	S	T
SLh400...s	2	686	1000	280	80	170	22	85	400	50	35	180	840	565	265	1160	1277	2031	30	940	880	1000	25	6
SLh400...s	4÷8	686	1000	280	110	210	28	116	400	50	35	180	840	565	265	1160	1277	2016	30	940	880	1000	25	6
SLh450...s	4÷8	750	1120	315	110	210	28	116	450	60	35	205	940	572	340	1320	1356	2151	30	1080	1000	1150	28	6

FOOT/FLANGE MOUNTED MOTORS - IM B34

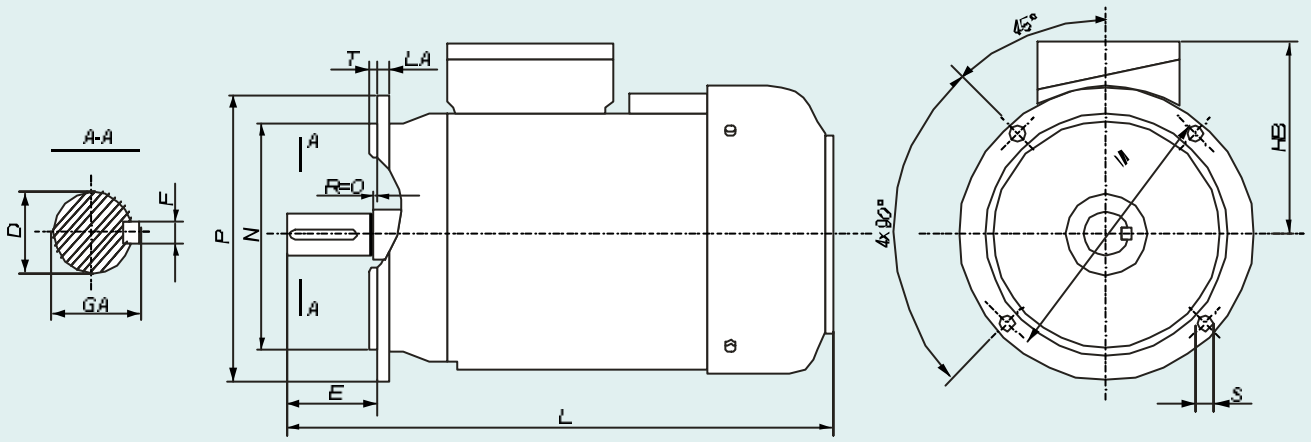
DIMENSION DRAWINGS



Motortype	Flange	A	AA	B	C	D	E	F	GA	H	HA	K	M	N	P	S	LE	T	HD	L
SLg56-2A1	B14/C1	90	30	71	36	9j6	20	3h9	10,2	56	7	8,0	85	70j6	105	M6	15,0	2,5	154	188
SLg56-2A2	B14/C2	90	30	71	36	9j6	20	3h9	10,2	56	7	8,0	65	50j6	80	M5	12,5	2,5	154	188
SLg56-4A1	B14/C1	90	30	71	36	9j6	20	3h9	10,2	56	7	8,0	85	70j6	105	M6	15,0	2,5	154	149*
SLg56-4A2	B14/C2	90	30	71	36	9j6	20	3h9	10,2	56	7	8,0	65	50j6	80	M5	12,5	2,5	154	149*
SLg56-2B1	B14/C1	90	30	71	36	9j6	20	3h9	10,2	56	7	8,0	85	70j6	105	M6	15,0	2,5	154	196
SLg56-2B2	B14/C2	90	30	71	36	9j6	20	3h9	10,2	56	7	8,0	65	50j6	80	M5	12,5	2,5	154	196
SLg56-4B1	B14/C1	90	30	71	36	9j6	20	3h9	10,2	56	7	8,0	85	70j6	105	M6	15,0	2,5	154	157*
SLg56-4B2	B14/C2	90	30	71	36	9j6	20	3h9	10,2	56	7	8,0	65	50j6	80	M5	12,5	2,5	154	157*
SLg56-6B1	B14/C1	90	30	71	36	9j6	20	3h9	10,2	56	7	8,0	85	70j6	105	M6	15,0	2,5	154	196
SLg56-6B2	B14/C2	90	30	71	36	9j6	20	3h9	10,2	56	7	8,0	65	50j6	80	M5	12,5	2,5	154	196
SLg63-.A1	B14/C1	100	36	80	40	11j6	23	4h9	12,5	63	8,5	10,0	100	80j6	120	M6	14,0	3,0	165	202
SLg63-.A2	B14/C2	100	36	80	40	11j6	23	4h9	12,5	63	8,5	10,0	75	60j6	90	M5	9,5	2,5	165	202
SLg63-.B1	B14/C1	100	36	80	40	11j6	23	4h9	12,5	63	8,5	10,0	100	80j6	120	M6	14,0	3,0	165	214
SLg63-.B2	B14/C2	100	36	80	40	11j6	23	4h9	12,5	63	8,5	10,0	75	60j6	90	M5	9,5	2,5	165	214
SLh71-.A1	B14/C1	112	45	90	45	14j6	30	5h9	16,0	71	8	10,0	115	95j6	140	M8	14,0	3,0	182	223
SLh71-.A2	B14/C2	112	45	90	45	14j6	30	5h9	16,0	71	8	10,0	85	70j6	105	M6	12,0	2,5	182	223
SLh71-.B1	B14/C1	112	45	90	45	14j6	30	5h9	16,0	71	8	10,0	115	95j6	140	M8	14,0	3,0	182	245
SLh71-.B2	B14/C2	112	45	90	45	14j6	30	5h9	16,0	71	8	10,0	85	70j6	105	M6	12,0	2,5	182	245
SLh80-.A1	B14/C1	125	55	100	50	19j6	40	6h9	21,5	80	9	10,0	130	110j6	160	M8	14,0	3,5	195	266
SLh80-.A2	B14/C2	125	55	100	50	19j6	40	6h9	21,5	80	9	10,0	100	80j6	120	M6	12,0	3,0	195	266
SLh80-.B1	B14/C1	125	55	100	50	19j6	40	6h9	21,5	80	9	10,0	130	110j6	160	M8	14,0	3,5	195	278
SLh80-.B2	B14/C2	125	55	100	50	19j6	40	6h9	21,5	80	9	10,0	100	80j6	120	M6	12,0	3,0	195	278
SLh90S...	B14/C1	140	50	100	56	24j6	50	8h9	27,0	90	10	10,0	130	110j6	160	M8	10,0	3,5	220	305
SLh90S...	B14/C2	140	50	100	56	24j6	50	8h9	27,0	90	10	10,0	115	95j6	140	M8	10,0	3,0	220	305
SLh90L...	B14/C1	140	50	125	56	24j6	50	8h9	27,0	90	10	10,0	130	110j6	160	M8	10,0	3,5	220	330
SLh90L...	B14/C2	140	50	125	56	24j6	50	8h9	27,0	90	10	10,0	115	95j6	140	M8	10,0	3,0	220	330
SLg100L...	B14/C1	160	45	140	63	28j6	60	8h9	31,0	100	14	12,0	165	130j6	200	M10	12,0	3,5	240	376
SLg100L...	B14/C2	160	45	140	63	28j6	60	8h9	31,0	100	14	12,0	130	110j6	160	M8	12,0	3,5	240	376
SLg112M...	B14/C1	190	54	140	70	28j6	60	8h9	31,0	112	14	12,0	165	130j6	200	M10	12,0	3,5	276	384
SLg112M...	B14/C2	190	54	140	70	28j6	60	8h9	31,0	112	14	12,0	130	110j6	160	M8	12,0	3,5	276	384
SLg132S...	B14/C1	216	56	140	89	38k6	80	10h9	41,0	132	16	12,0	215	180j6	250	M12	12,0	4,0	310	463
SLg132S...	B14/C2	216	56	140	89	38k6	80	10h9	41,0	132	16	12,0	165	130j6	200	M12	12,0	3,5	310	463
SLg132S-2B	B14/C1	216	56	140	89	38k6	80	10h9	41,0	132	16	12,0	215	180j6	250	M12	12,0	4,0	310	501
SLg132S-2B	B14/C2	216	56	140	89	38k6	80	10h9	41,0	132	16	12,0	165	130j6	200	M12	12,0	3,5	310	501
SLg132M...	B14/C1	216	56	140	89	38k6	80	10h9	41,0	132	16	12,0	215	180j6	250	M12	12,0	4,0	310	501
SLg132M...	B14/C2	216	56	140	89	38k6	80	10h9	41,0	132	16	12,0	165	130j6	200	M12	12,0	3,5	310	501

** - the SLg56-4A and 4B motorsintheirstandardversionhaveneitherthefannorthefancover*

FLANGE MOUNTED MOTORS - IMB5, IMV1, IM V3



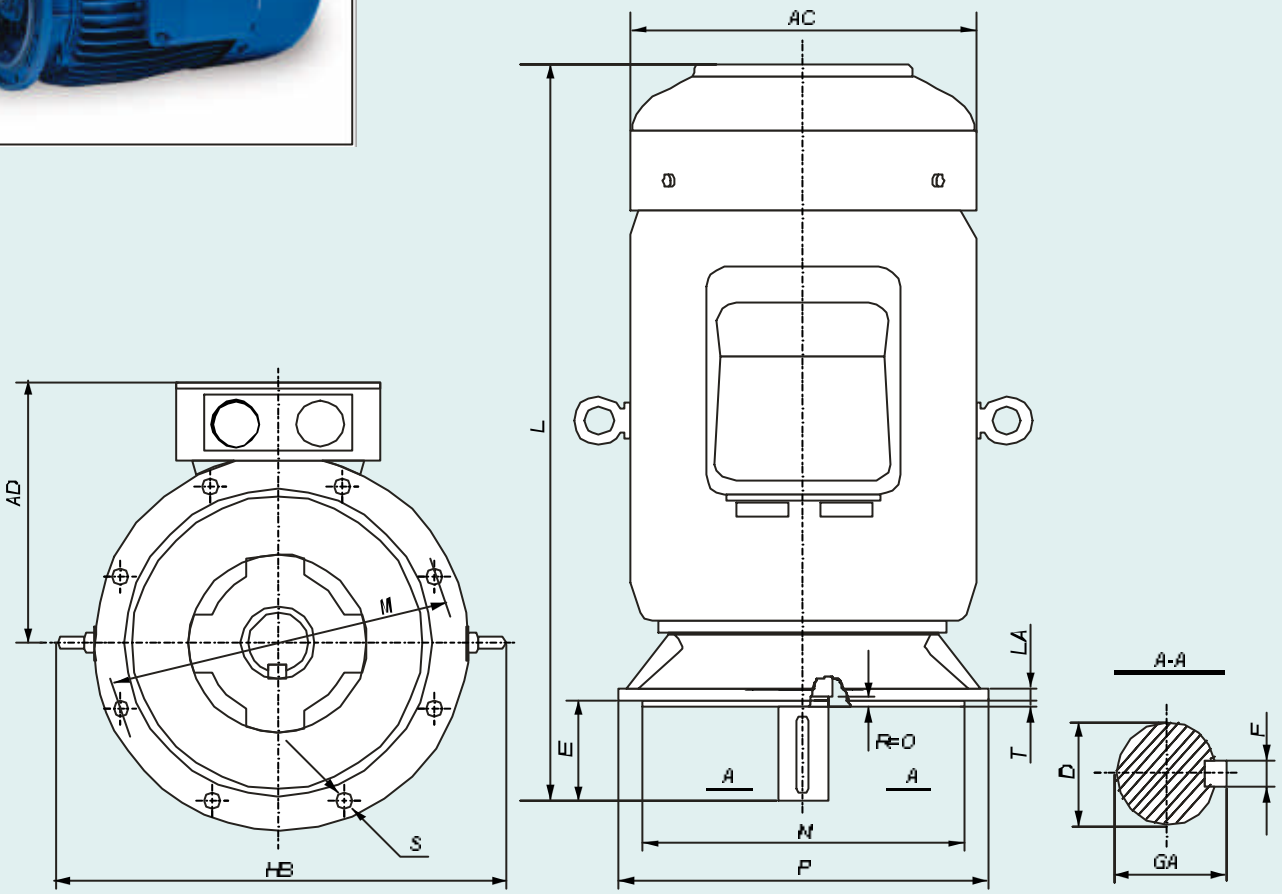
DIMENSION DRAWINGS

Motortype	D	E	F	GA	M	N	P	LA	T	S	HB	L
SKg56-2A	9j6	20	3h9	10,2	100	80j6	120	8	3,0	7	98	188
SKg56-4A	9j6	20	3h9	10,2	100	80j6	120	8	3,0	7	98	149*
SKg56-2B	9j6	20	3h9	10,2	100	80j6	120	8	3,0	7	98	196
SKg56-4B	9j6	20	3h9	10,2	100	80j6	120	8	3,0	7	98	157*
SKg56-6B	9j6	20	3h9	10,2	100	80j6	120	8	3,0	7	98	196
SKg63-.A	11j6	23	4h9	12,5	115	95j6	140	9	3,0	10	102	202
SKg63-.B	11j6	23	4h9	12,5	115	95j6	140	9	3,0	10	102	214
SKh71-.A	14j6	30	5h9	16,0	130	110j6	160	9	3,5	10	111	223
SKh71-.B	14j6	30	5h9	16,0	130	110j6	160	9	3,5	10	111	245
SKh80-.A	19j6	40	6h9	21,5	165	130j6	200	10	3,5	12	115	266
SKh80-.B	19j6	40	6h9	21,5	165	130j6	200	10	3,5	12	115	278
SKh90S...	24j6	50	8h9	27,0	165	130j6	200	8	3,5	12	130	305
SKh90L...	24j6	50	8h9	27,0	165	130j6	200	8	3,5	12	130	330
SKg100L...	28j6	60	8h9	31,0	215	180j6	250	11	4,0	15	140	376
SKg112M...	28j6	60	8h9	31,0	215	180j6	250	12	4,0	15	164	384
SKg132S...	38k6	80	10h9	41,0	265	230j6	300	12	4,0	15	178	463
SKg132S-2B	38k6	80	10h9	41,0	265	230j6	300	12	4,0	15	178	501
SKg132M...	38k6	80	10h9	41,0	265	230j6	300	12	4,0	15	178	501
SKg160M...	42k6	110	12h9	45,0	300	250j6	350	13	5,0	19	210	612
SKg160L...	42k6	110	12h9	45,0	300	250j6	350	13	5,0	19	210	656
SKg180M...	48k6	110	14h9	51,5	300	250j6	350	13	5,0	19	228	705
SKg180L...	48k6	110	14h9	51,5	300	250j6	350	13	5,0	19	228	705

*-theSkg56-4Aand 4Bmotors intheirstandardversionhaveneitherthefannorthefancover

FLANGE MOUNTED MOTORS - IMB5, IMV1, IM V3

DIMENSION DRAWINGS

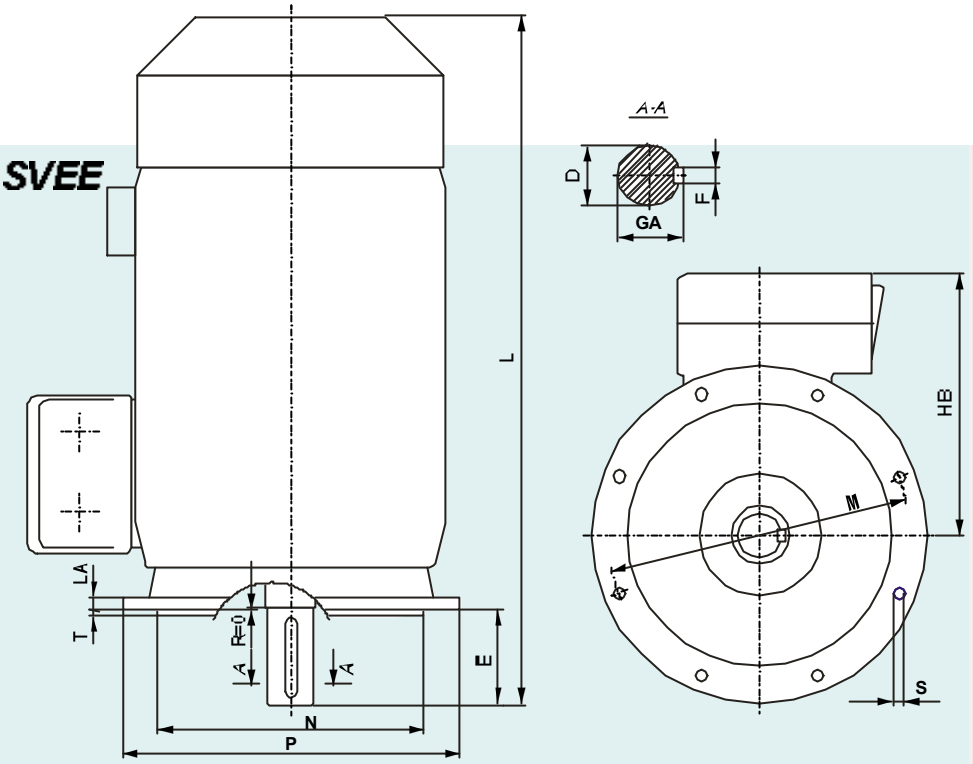


Motortype	D	E	F	GA	AC	AD	HB	L	LA	M	N	P	T	S	
														ϕ	holes
SKg200L2÷12	55m6	110	16h9	59,0	450	355	570	810	16,5	350	300j6	400	5	18	4
SKg225S4÷12	60m6	140	18h9	64,0	505	375	620	860	18,0	400	350j6	450	5	18	8
SKg225M2	55m6	110	16h9	59,0	505	375	620	855	18,0	400	350j6	450	5	18	8
SKg225M4÷12	60m6	140	18h9	64,0	505	375	620	885	18,0	400	350j6	450	5	18	8
SKg250M2	60m6	140	18h9	64,0	540	415	675	980	19,0	500	450j6	550	5	18	8
SKg250M4÷12	65m6	140	18h9	69,0	540	415	675	980	19,0	500	450j6	550	5	18	8
SKg280S2	65m6	140	18h9	69,0	620	450	755	1040	20,0	500	450j6	550	5	18	8
SKg280S4÷12	75m6	140	20h9	79,5	620	450	755	1040	20,0	500	450j6	550	5	18	8
SKg280M2	65m6	140	18h9	69,0	620	450	755	1040	20,0	500	450j6	550	5	18	8
SKg280M4÷12	75m6	140	20h9	79,5	620	450	755	1040	20,0	500	450j6	550	5	18	8
SKg315S2	65m6	140	18h9	69,0	620	450	790	1180	22,0	600	550j6	660	6	22	8
SKg315S4÷12	80m6	170	22h9	85,0	620	450	790	1210	22,0	600	550j6	660	6	22	8
SKg315M2	65m6	140	18h9	69,0	620	450	790	1180	22,0	600	550j6	660	6	22	8
SKg315M4÷12	80m6	170	22h9	85,0	620	450	790	1210	22,0	600	550j6	660	6	22	8
SVg315M6÷8C *	80m6	170	22h9	85,0	693	551	877	1355	22,0	600	550js6	660	6	22	8
SVg355S4÷12*	100m6	210	28h9	106,0	767	588	970	1580	24,0	740	680js6	800	6	24	8
SVg355M10÷12*	100m6	210	28h9	106,0	767	588	970	1580	24,0	740	680js6	800	6	24	8

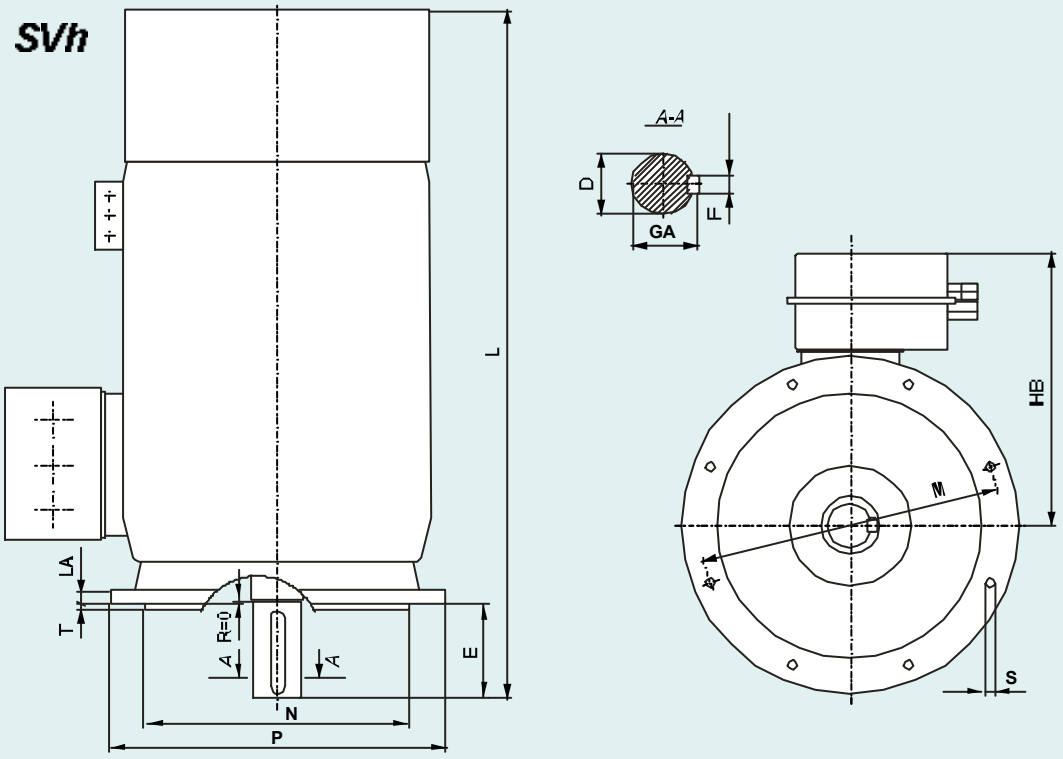
*- the *SVg* motorsmayoperateonlyinverticalposition *IMV1*

FLANGE MOUNTED MOTORS - IM V1

SVEE

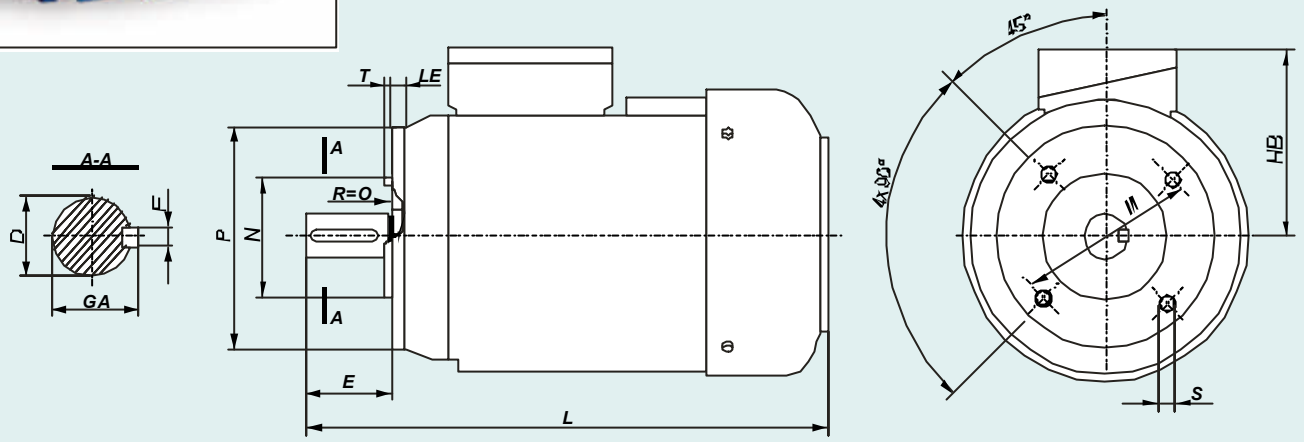


SVh



Motortype	No.ofpoles	D	E	F	GA	HB	L	LA	M	N	P	S	T
SVEE355	4÷8	100	210	28	106	580	1620	24	740	680	800	22	6
SVh355...s	4÷8	100	210	28	106	640	1924	24	740	680	800	22	6
SVh400...s	4÷8	110	210	28	116	695	2016	30	940	880	1000	25	6
SVh450...s	4÷8	110	210	28	116	745	2151	30	1080	1000	1150	28	6

FLANGE MOUNTED MOTORS - IM B14

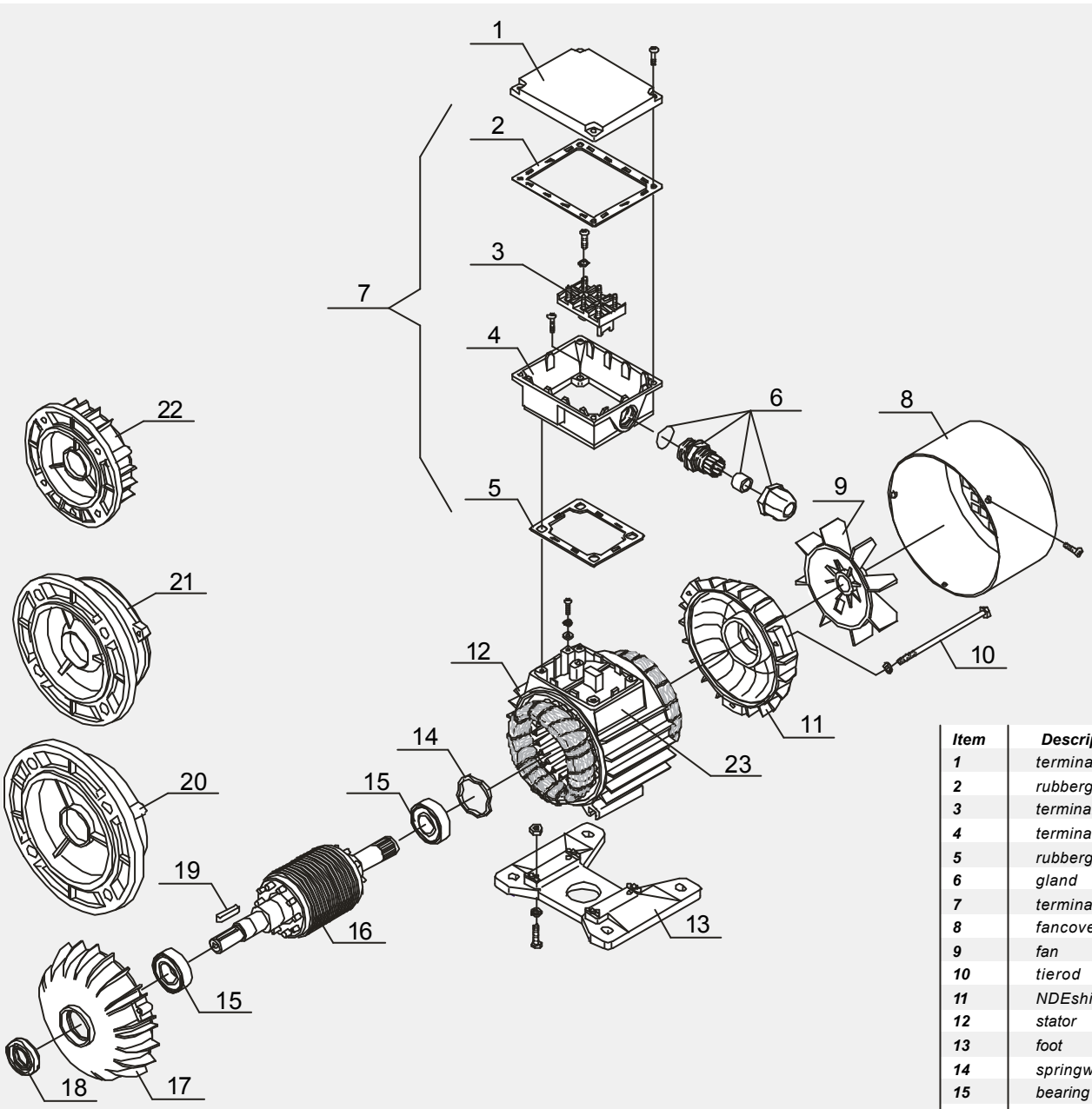


DIMENSION DRAWINGS

Motortype	Flange	D	E	F	GA	M	N	P	S	T	LE	HB	L
SKg 56-2A1	B14/C1	9j6	20	3h9	10,2	85	70j6	105	M6	2,5	15	98	188
SKg 56-2A2	B14/C2	9j6	20	3h9	10,2	65	50j6	80	M5	2,5	12,5	98	188
SKg 56-4A1	B14/C1	9j6	20	3h9	10,2	85	70j6	105	M6	2,5	15	98	149*
SKg 56-4A2	B14/C2	9j6	20	3h9	10,2	65	50j6	80	M5	2,5	12,5	98	149*
SKg 56-2B1	B14/C1	9j6	20	3h9	10,2	85	70j6	105	M6	2,5	15	98	196
SKg 56-2B2	B14/C2	9j6	20	3h9	10,2	65	50j6	80	M5	2,5	12,5	98	196
SKg 56-4B1	B14/C1	9j6	20	3h9	10,2	85	70j6	105	M6	2,5	15	98	157*
SKg 56-4B2	B14/C2	9j6	20	3h9	10,2	65	50j6	80	M5	2,5	12,5	98	157*
SKg 56-6B1	B14/C1	9j6	20	3h9	10,2	85	70j6	105	M6	2,5	15	98	196
SKg 56-6B2	B14/C2	9j6	20	3h9	10,2	65	50j6	80	M5	2,5	12,5	98	196
SKg 63-.A1	B14/C1	11j6	23	4h9	12,5	100	80j6	120	M6	3	14	102	202
SKg 63-.A2	B14/C2	11j6	23	4h9	12,5	75	60j6	90	M5	2,5	9,5	102	202
SKg 63-.B1	B14/C1	11j6	23	4h9	12,5	100	80j6	120	M6	3	14	102	214
SKg 63-.B2	B14/C2	11j6	23	4h9	12,5	75	60j6	90	M5	2,5	9,5	102	214
SKh 71-.A1	B14/C1	14j6	30	5h9	16	115	95j6	140	M8	3	14	111	223
SKh 71-.A2	B14/C2	14j6	30	5h9	16	85	70j6	105	M6	2,5	12	111	223
SKh 71-.B1	B14/C1	14j6	30	5h9	16	115	95j6	140	M8	3	14	111	245
SKh 71-.B2	B14/C2	14j6	30	5h9	16	85	70j6	105	M6	2,5	12	111	245
SKh 80-.A1	B14/C1	19j6	40	6h9	21,5	130	110j6	160	M8	3,5	14	115	266
SKh 80-.A2	B14/C2	19j6	40	6h9	21,5	100	80j6	120	M6	3	12	115	266
SKh 80-.B1	B14/C1	19j6	40	6h9	21,5	130	110j6	160	M8	3,5	14	115	278
SKh 80-.B2	B14/C2	19j6	40	6h9	21,5	100	80j6	120	M6	3	12	115	278
SKh 90S...	B14/C1	24j6	50	8h9	27,0	130	110j6	160	M8	3,5	10	130	305
SKh 90S...	B14/C2	24j6	50	8h9	27,0	115	95j6	140	M8	3	10	130	305
SKh 90L...	B14/C1	24j6	50	8h9	27,0	130	110j6	160	M8	3,5	10	130	330
SKh 90L...	B14/C2	24j6	50	8h9	27,0	115	95j6	140	M8	3	10	130	330
SKg 100L...	B14/C1	28j6	60	8h9	31,0	165	130j6	200	M10	3,5	12	140	376
SKg 100L...	B14/C2	28j6	60	8h9	31,0	130	110j6	160	M8	3,5	12	140	376
SKg 112M...	B14/C1	28j6	60	8h9	31,0	165	130j6	200	M10	3,5	12	164	384
SKg 112M...	B14/C2	28j6	60	8h9	31,0	130	110j6	160	M8	3,5	12	164	384
SKg 132S...	B14/C1	38k6	80	10h9	41,0	215	180j6	250	M12	4,0	12	178	463
SKg 132S...	B14/C2	38k6	80	10h9	41,0	165	130j6	200	M12	3,5	12	178	463
SKg 132S-2B	B14/C1	38k6	80	10h9	41,0	215	180j6	250	M12	4,0	12	178	501
SKg 132S-2B	B14/C2	38k6	80	10h9	41,0	165	130j6	200	M12	3,5	12	178	501
SKg 132M...	B14/C1	38k6	80	10h9	41,0	215	180j6	250	M12	4,0	12	178	501
SKg 132M...	B14/C2	38k6	80	10h9	41,0	165	130j6	200	M12	3,5	12	178	501

- The SKg 56-4A and 4B motors in their standard version have neither the fan nor the fan cover.

Frame size: 56÷80

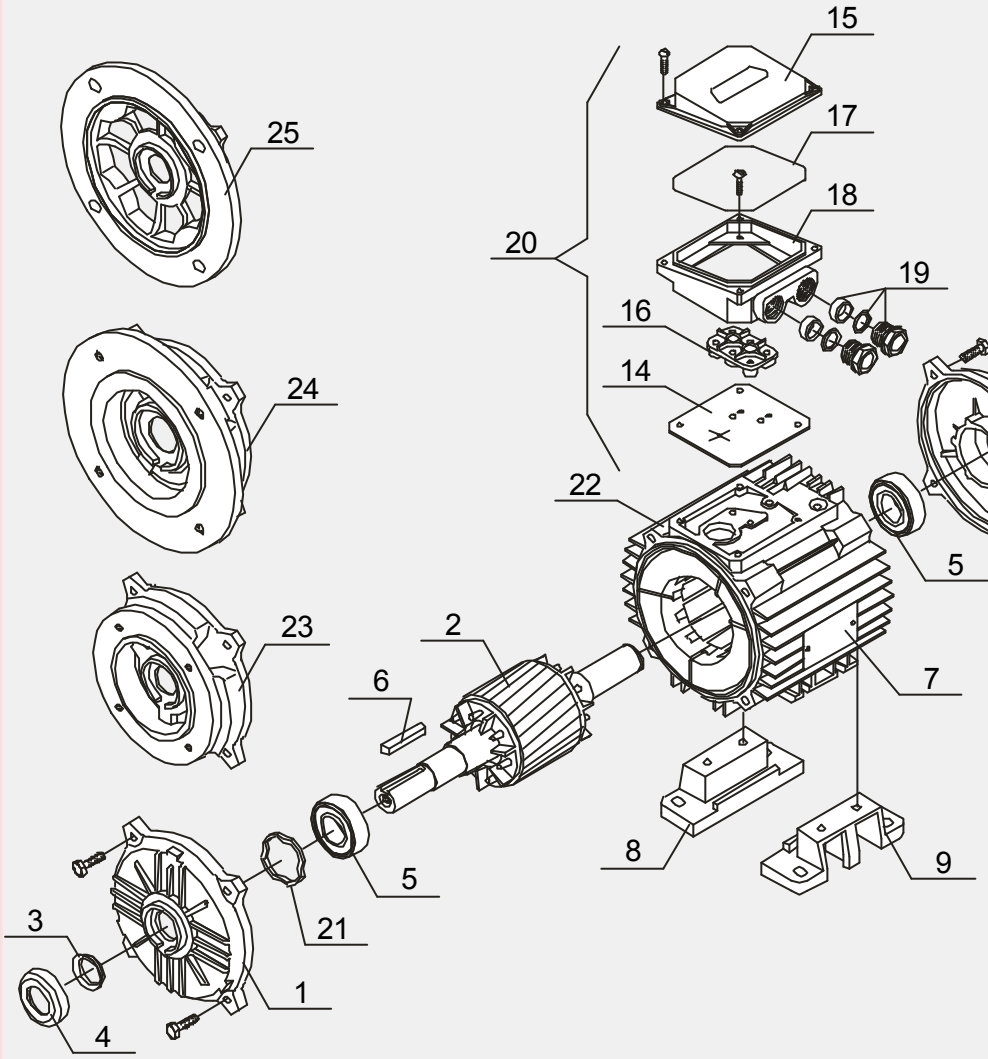


LIST OF MOTOR PARTS

Item	Description
1	terminalboxcover
2	rubbergasket
3	terminalboard
4	terminalbox
5	rubbergasket
6	gland
7	terminalboxcomplete
8	fancover
9	fan
10	tierod
11	NDEshield
12	stator
13	foot
14	springwasher
15	bearing
16	rotor
17	DEshield
18	shaftseal
19	key
20	flangeB5
21	flangeB14/C1
22	flangeB14/C2
23	nameplate

Frame size: 90÷180

LIST OF MOTOR PARTS

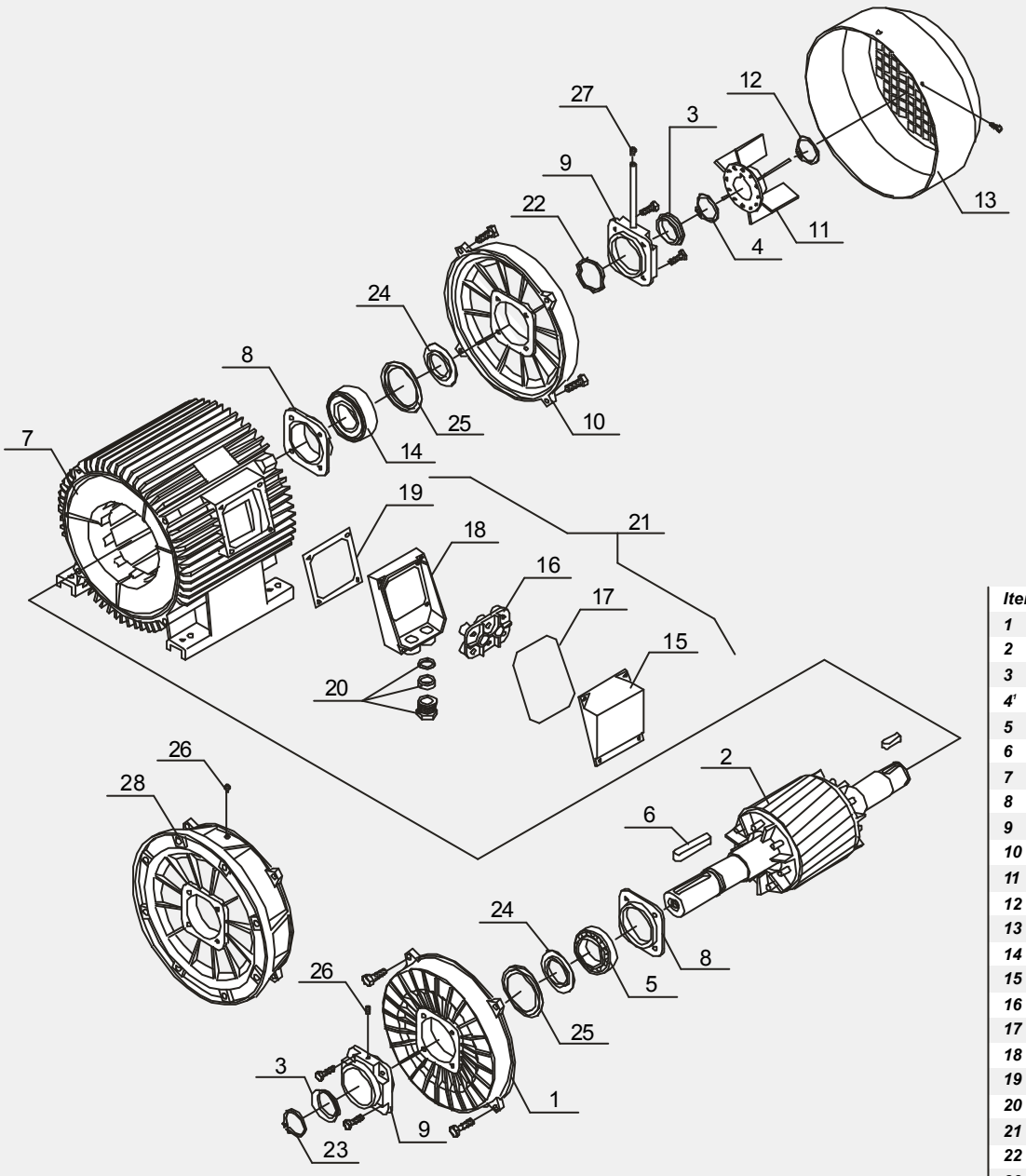


Item	Description
1	DEshield
2	rotor
3	shaftseal
4	shaftsealcover
5	bearing
6	key
7	nameplate
8[1]	sxfoot
9[1]	dxfoot
10	NDEshield
11	fan
12	seegerring
13	fancover
14	rubbergasket
15	terminalboxcover
16	terminalboard
17	rubbergasket
18	terminalbox
19	glands
20	terminalboxcomplete
21	springwasher
22	stator
23[2]	flangeB14/C2
24[2]	flangeB14/C1
25	flangeB5

[1] -forframesize132feetcanbe screwedorintegratedwith themotorhousing,forframesize 160-180feetareintegratedwith themotorhousing.

[2] -onlyforframesize90-132.

Frame size: 200÷355
except Sh and SEE motors



LIST OF MOTOR PARTS

Item	Description
1	DEshield
2	rotor
3	shaftseal
4[1]	seegerring
5	DEbearing
6	key
7	statorwithfoot
8	internalbearingcap
9	externalbearingcap
10	NDEshield
11	fan
12	seegerring
13	fancover
14	NDEbearing
15	terminalboxcover
16	terminalboard
17	rubbergasket
18	terminalbox
19	rubbergasket
20	glands
21	terminalboxcomplete
22	springwasher
23	seegerring
24[2]	greaseshield
25[2]	bearinginternalring
26	DElubricator
27	NDElubricator
28	FlangeB5

[1] -onlyforframesize200,225,355
[2] -onlyforframesize280-315