

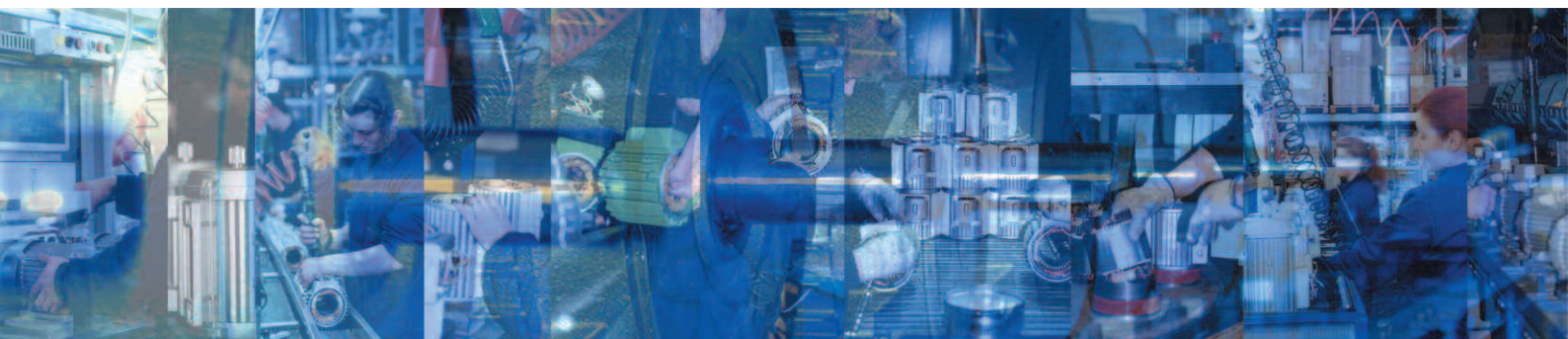


Marine motors





VEMAT SPA is a company which has been producing electric motors for many years and is recognised among the Italian and international market leaders. Research, experience and continuous technological updating, always and exclusively aimed at perfecting its production, mean that VEMAT SPA is a company which can meet the most varied market demands. The investment policy which has always been pursued privileges the quality and reliability of the products, while flexible organisation of production and the high professionalism of the personnel and technicians allow us to offer a range of products which are the result of continuous research and development activities. The production cycle ensures a high and constant quality guaranteed by the certification of the materials used and by the continuous controls carried out during the machining processes.





The catalogue covers marine duty motors, designed for use on board ships anywhere in the world. They are built in accordance with the requirements of the major marine classification authorities concerning limits to winding temperature rises with given ambient temperatures, which determine the motor frame size for a given output.

Our motors are designed for long life and reliable operation.



FEATURES AND BENEFITS

For marine motors the ambient temperature is up to 50 K allowed, according to the classification authorities' rules. The reliable windings of motors are made from the material in class F protection and permissible temperature rise 95 K. All windings are tropicalized, insensitive to moisture and micro-organisms.

The motors are made to withstand aggressive environments such as a salt mist.

They are also strong protected against corrosion.

To enable supplying with power network available in sea ports the motors are designed for dual voltage and frequency.

General technical information such as dimensions, the type of bearings, construction, cooling system or compliance with standards is the same as for the motors described in the Cantoni "General Purpose 3-Phase Induction Motors" catalogue.

Our marine motors described in this catalogue can be delivered with factory certificates in compliance with requirements of one of the Marine Classification Authorities:

■	Polish Register of Shipping	PRS
■	Germanischer Lloyd	GL
■	Lloyd's Register of Shipping	LRS
■	Det Norske Veritas	DNV
■	American Bureau of Shipping	ABS
■	Bureau Veritas	BV
■	Морской Регистр Судов	MRS



The following special marine motors are also available:

- Explosion-proof marine motors
- Marine motors for pumps
- Marine motors for axial fans
- Explosion-proof marine motors for fans
- Marine motors for boat davits and deck davits
- Marine motors for thrusters
- High voltage marine motors



Please contact Cantoni Motor for details.



ORDERING INFORMATION

When placing an order, the following motor data should be given:

- Motor type designation
- Rated outputs
- Rated speed
- Name of Classification Authority
- Supply voltages
- Frequencies
- Mounting arrangements
- Degree of protection
- Special requirements
- Information concerning additional accessories e.g.
 - Thermal protection
 - Anticondensation heaters
 - Vibration sensors, etc.

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



**Totally Enclosed Motors IP55 (IP 56)
Insulation Class F**

Maximal Temperature Rise of Winding: 95 K

Type	Voltage	Frequency	Rated Output	Rated Speed	Rated Torque	Efficiency	Power Factor	Full Load Current	Locked Rotor Torque	Locked Rotor Current	Breakdown Torque	Moment of Inertia	Weight (IMB3)
	U_N [V]	f_N [Hz]	P_N [kW]	n_N [rpm]	T_N [Nm]	η_N [%]	$\cos \varphi_N$ [-]	I_N [A]	T_L/T_N [-]	I_L/I_N [-]	T_b/T_N [-]	J [kgm ²]	m [kg]
	2 poles						n=3000/3600 rpm						
mSg 56-2A	380 440	50 60	0,09 0,11	2800 3380	0,31 0,31	58 58	0,75 0,75	0,32 0,32	2,1 2,1	4,5 4,5	2,1 2,1	0,000076	3
mSg 56-2B	380 440	50 60	0,12 0,14	2800 3380	0,41 0,4	63 63	0,83 0,83	0,35 0,35	1,8 1,8	4,8 4,8	2,1 2,1	0,000095	3,4
mSg 63-2A	380 440	50 60	0,18 0,21	2760 3310	0,62 0,62	65 65	0,8 0,8	0,55 0,55	1,9 1,9	3,8 3,8	1,9 1,9	0,000175	3,6
mSg 63-2B	380 440	50 60	0,25 0,29	2760 3330	0,87 0,87	68 68	0,83 0,83	0,65 0,65	2 2	4 4	2 2	0,000235	4,2
mSh 71-2A	380 440	50 60	0,37 0,43	2800 3360	1,26 1,26	71 71	0,77 0,77	1 1	2,2 2,2	4,4 4,4	2,2 2,2	0,00039	5
mSh 71-2B	380 440	50 60	0,55 0,64	2790 3350	1,88 1,88	75 75	0,82 0,82	1,35 1,35	2 2	4 4	2,1 2,1	0,00048	6
mSh 80-2A	380 440	50 60	0,75 0,87	2800 3360	2,56 2,56	74 74	0,8 0,8	1,9 1,9	2,7 2,7	4,5 4,5	2,6 2,6	0,000829	7,8
mSh 80-2B	380 440	50 60	1,1 1,3	2780 3340	3,78 3,78	77 77	0,84 0,84	2,5 2,5	2,6 2,6	5,1 5,1	2,6 2,6	0,001005	9,1
mSSh 90S-2	380 440	50 60	1,5 1,7	2835 3440	5,05 4,72	81,1 82,8	0,83 0,83	3,4 3,2	3 3,15	6,15 6,95	3,05 3,4	0,0013	14
mSSh 90L-2	380 440	50 60	2,2 2,5	2855 3455	7,36 6,91	83,2 84,8	0,82 0,83	4,9 4,7	3,4 3,75	7,1 8,25	3,5 3,9	0,002	16,8
mSSg 100L-2	380 440	50 60	3 3,4	2905 3505	9,86 9,26	83,4 83,8	0,86 0,86	6,4 6,2	2,7 3,05	7,5 8,3	2,8 3,1	0,0048	25
mSSg 112M-2	380 440	50 60	4 4,6	2865 3465	13,33 12,68	85,4 86,3	0,9 0,9	7,9 7,8	2,1 2,05	6,4 6,4	2,3 2,35	0,0079	34
mSSg 132S-2A	380 440	50 60	5,5 6,3	2910 3510	18,05 17,14	87 88	0,88 0,88	10,9 10,7	2,4 2,4	7 6,95	3,2 3,35	0,015	60
mSSg 132S-2B	380 440	50 60	7,5 8,6	2920 3520	24,53 23,33	88,5 89,5	0,88 0,88	14,6 14,3	2,5 2,55	7,5 7,45	3,2 3,35	0,018	71
mSSg 160M-2A	380 440	50 60	11 12,7	2930 3530	35,85 34,36	89,5 90,1	0,89 0,89	20,9 20,8	2,4 2,4	6,1 5,95	2,9 2,9	0,042	100
mSSg 160M-2B	380 440	50 60	15 17,2	2920 3520	49,06 46,66	90,5 91,1	0,91 0,91	27,6 27,2	2,4 2,45	6,2 6,1	2,7 2,7	0,048	115
mSSg 160L-2	380 440	50 60	18,5 21,3	2930 3530	60,3 57,62	91 91,7	0,91 0,91	33,8 33,5	2,8 2,9	6,5 6,4	3 3	0,059	130
mSSg 180M-2	380 440	50 60	22 25,3	2920 3520	71,95 68,64	90,6 89,8	0,88 0,88	42,5 42	2,5 2,55	6 5,9	2,5 2,55	0,076	165
mSg 200L2A	380 440	50 60	30 34	2960 3560	97 91	93 93	0,88 0,88	56 54	1,9 1,9	6 6	2 2	0,15	245
mSg 200L2B	380 440	50 60	37 41	2960 3575	120 110	93,5 93,5	0,89 0,89	67 62	2,2 2,2	6,7 6,7	2 2	0,18	265
mSg 225M2	380 440	50 60	45 51	2970 3570	145 137	94 94	0,89 0,89	81 80	2,4 2,4	7 7	2,1 2,1	0,26	335
mSg 250M2	380 440	50 60	55 62	2970 3570	177 167	93,5 93,5	0,9 0,9	99 96	2 2	6,9 6,9	2 2	0,36	410
mSg 280S2	380 440	50 60	75 84	2970 3570	241 224	93,5 93,5	0,91 0,91	134 129	2,1 2,1	7,5 7,5	3,3 3,3	0,76	535
mSg 280M2	380 440	50 60	90 99	2970 3570	290 266	94,7 94,7	0,91 0,91	159 150	2 2	7,6 7,6	3,2 3,2	0,87	605
mSg 315S2	380 440	50 60	100 110	2977 3572	320 294	95 95,3	0,93 0,91	172 167	1,8 1,9	8,1 8,3	2,6 2,7	0,91	690
mSg 315 M2A	380 440	50 60	120 132	2975 3570	385 353	95,1 95,4	0,92 0,9	209 202	2 2,1	8,5 8,6	2,7 2,8	0,98	725
mSg 315 M2B	380 440	50 60	145 160	2970 3565	466 428	95,3 95,4	0,92 0,91	252 242	2 2,1	8,3 8,4	2,6 2,7	1,12	790



Totally Enclosed Motors IP55 (IP 56)

Maximal Temperature Rise of Winding: 95 K

Insulation Class F

Type	Voltage	Frequency	Rated Output	Rated Speed	Rated Torque	Efficiency	Power Factor	Full Load Current	Locked Rotor Torque	Locked Rotor Current	Breakdown Torque	Moment of Inertia	Weight (IMB3)
	U_N [V]	f_N [Hz]	P_N [kW]	n_N [rpm]	T_N [Nm]	η_N [%]	$\cos \varphi_N$ [-]	I_N [A]	T_L/T_N [-]	I_L/I_N [-]	T_b/T_N [-]	J [kgm ²]	m [kg]
4 poles n=1500/1800 rpm													
mSg 56-4A	380	50	0,06	1400	0,41	55	0,66	0,25	1,8	3,3	2	0,000145	2,7
	440	60	0,07	1680	0,41	55	0,66	0,25	1,8	3,3	2		
mSg 56-4B	380	50	0,09	1380	0,62	61	0,65	0,34	1,9	3,2	2	0,000186	2,9
	440	60	0,11	1680	0,62	61	0,65	0,34	1,9	3,2	2		
mSg 63-4A	380	50	0,12	1380	0,83	64	0,72	0,4	2	3,2	2	0,00024	3,6
	440	60	0,14	1660	0,83	64	0,72	0,4	2	3,2	2		
mSg 63-4B	380	50	0,18	1380	1,25	64	0,7	0,65	2	3,2	2	0,000307	4,2
	440	60	0,21	1660	1,25	64	0,7	0,65	2	3,2	2		
mSh 71-4A	380	50	0,25	1380	1,73	66	0,68	0,85	2	3	2	0,00061	4,8
	440	60	0,29	1660	1,73	66	0,68	0,85	2	3	2		
mSh 71-4B	380	50	0,37	1360	2,59	68	0,72	1,2	2,1	3,1	2	0,00077	5,9
	440	60	0,43	1630	2,59	68	0,72	1,2	2,1	3,1	2		
mSh 80-4A	380	50	0,55	1400	3,75	70	0,68	1,7	2,1	3,6	2,1	0,001578	7,5
	440	60	0,64	1680	3,75	70	0,68	1,7	2,1	3,6	2,1		
mSh 80-4B	380	50	0,75	1390	5,15	75	0,73	2	2,1	4	2,1	0,001874	8,8
	440	60	0,87	1670	5,15	75	0,73	2	2,1	4	2,1		
mSSh 90S-4	380	50	1,1	1405	7,48	76,7	0,8	2,7	2,2	4,9	2,8	0,0023	14
	440	60	1,3	1705	7,28	79	0,8	2,7	2,2	5,3	2,95		
mSSh 90L-4	380	50	1,5	1410	10,16	79	0,78	3,7	2,5	5,3	2,8	0,0028	16,5
	440	60	1,8	1705	10,08	80,9	0,79	3,7	2,45	5,7	3,1		
mSSg 100L-4A	380	50	2,2	1425	14,74	82	0,8	5,1	2,5	6,1	2,8	0,0058	25
	440	60	2,6	1720	14,44	83,5	0,81	5	2,6	6,4	2,9		
mSSg 100L-4B	380	50	3	1415	20,25	81,5	0,81	6,9	2,6	6,1	2,7	0,0065	26
	440	60	3,6	1715	20,05	83,2	0,82	6,9	2,65	6,35	2,8		
mSSg 112M-4	380	50	4	1435	26,62	85,1	0,82	8,7	2,6	6,3	3	0,0118	34
	440	60	4,8	1730	26,5	87,4	0,83	8,7	2,5	6,3	3		
mSSg 132S-4	380	50	5,5	1450	36,22	85,9	0,84	11,6	2,2	6,9	3,1	0,029	62
	440	60	6,6	1740	36,22	86,5	0,85	11,8	2,1	6,7	3,05		
mSSg 132M-4	380	50	7,5	1450	49,4	87	0,85	15,4	2,4	6,7	3,1	0,035	73
	440	60	9	1740	49,4	88	0,86	15,6	2,3	6,45	3		
mSSg 160M-4	380	50	11	1460	71,95	89	0,85	22	2,3	7	3,1	0,061	105
	440	60	13,2	1755	71,83	89,7	0,86	22,5	2,2	6,75	3		
mSSg 160L-4	380	50	15	1460	98,12	89,5	0,87	29,2	2,4	7,3	3,2	0,075	125
	440	60	18	1750	98,23	90,2	0,88	29,8	2,3	7	3,1		
mSSg 180M-4	380	50	18,5	1470	120,19	90,5	0,9	34,5	2,4	6,8	2,9	0,135	165
	440	60	22,2	1770	119,78	91,1	0,91	35,1	2,3	6,4	2,75		
mSSg 180L-4	380	50	22	1465	143,41	91	0,9	40,8	2,7	7,3	2,8	0,155	175
	440	60	26,4	1765	142,84	91,6	0,91	41,6	2,6	6,85	2,65		
mSg 200L4	380	50	30	1470	195	92,5	0,88	56	2,9	7,1	2,5	0,31	265
	440	60	35	1770	189	92,5	0,88	56	2,9	7,1	2,5		
mSg 225S4	380	50	37	1475	240	93	0,88	69	2,1	6,3	2,2	0,44	320
	440	60	42	1775	226	93	0,88	67	2,1	6,3	2,2		
mSg 225M4	380	50	45	1480	291	94	0,88	83	2,4	7	2,3	0,53	345
	440	60	52	1780	279	94	0,88	82	2,4	7	2,3		
mSg 250M4	380	50	55	1480	355	93,5	0,91	98	2,4	7,3	2,6	0,79	425
	440	60	63	1780	338	93,5	0,91	97	2,4	7,3	2,6		
mSg 280S4	380	50	75	1485	483	94,2	0,90	134	2,6	7,3	2,5	1,37	575
	440	60	86	1785	461	93	0,89	132	2,6	7,3	2,5		
mSg 280M4	380	50	90	1485	580	94,4	0,92	157	2,6	7,5	2,6	1,63	635
	440	60	99	1785	530	94,4	0,92	155	2,6	7,5	2,6		
mSg 315S4	380	50	100	1482	645	94,1	0,91	177	2,2	7	2,4	1,67	780
	440	60	110	1778	592	94,4	0,9	168	2,4	7,2	2,6		
mSg 315M4A	380	50	120	1483	774	94,6	0,9	215	2,8	8,1	2,7	1,84	750
	440	60	132	1780	710	94,8	0,89	203	3	8,3	2,9		
mSg 315M4B	380	50	145	1483	935	94,8	0,91	255	3	8,3	2,7	2,08	795
	440	60	160	1780	860	95	0,9	243	3,2	8,5	2,9		



**Totally Enclosed Motors IP55 (IP 56)
Insulation Class F**

Maximal Temperature Rise of Winding: 95 K

Type	Voltage	Frequency	Rated Output	Rated Speed	Rated Torque	Efficiency	Power Factor	Full Load Current	Locked Rotor Torque	Locked Rotor Current	Breakdown Torque	Moment of Inertia	Weight (IMB3)
	U_N [V]	f_N [Hz]	P_N [kW]	n_N [rpm]	T_N [Nm]	η_N [%]	$\cos \varphi_N$ [-]	I_N [A]	T_L/T_N [-]	I_L/I_N [-]	T_B/T_N [-]	J [kgm ²]	m [kg]
6 poles n=1000/1200 rpm													
mSg 63-6A	380	50	0,09	820	1,05	40	0,75	0,45	1,15	1,9	1,3	0,00024	3,6
	440	60	0,11	980	1,05	40	0,75	0,45	1,15	1,9	1,3		
mSg 63-6B	380	50	0,12	880	1,3	53	0,7	0,5	1,1	2,6	1,6	0,000307	4,2
	440	60	0,14	1060	1,3	53	0,7	0,5	1,1	2,6	1,6		
mSh 71-6A	380	50	0,18	890	1,91	57	0,68	0,75	1,9	2,6	1,9	0,000736	4,9
	440	60	0,21	1070	1,91	57	0,68	0,75	1,9	2,6	1,9		
mSh 71-6B	380	50	0,25	860	2,78	55	0,79	1	1,6	2,3	1,6	0,000946	5,8
	440	60	0,29	1030	2,78	55	0,79	1	1,6	2,3	1,6		
mSh 80-6A	380	50	0,37	910	3,88	64	0,65	1,4	2	3	2,1	0,001693	7,3
	440	60	0,43	1090	3,88	64	0,65	1,4	2	3	2,1		
mSh 80-6B	380	50	0,55	900	5,84	67	0,7	1,8	1,9	2,7	2	0,00207	8,6
	440	60	0,64	1080	5,84	67	0,7	1,8	1,9	2,7	2		
mSSh 90S-6	380	50	0,75	915	7,83	72,4	0,72	2,2	1,9	3,7	2,2	0,002	13,5
	440	60	0,9	1110	7,74	75,5	0,73	2,1	1,85	4	2,25		
mSSh 90L-6	380	50	1,1	920	11,42	75,4	0,71	3,1	2,2	4	2,25	0,0028	16,5
	440	60	1,3	1120	11,08	78	0,72	3	2,2	4,4	2,3		
mSSg 100L-6	380	50	1,5	945	15,16	76,7	0,73	4,1	1,9	4,6	2,3	0,009	24
	440	60	1,8	1140	15,08	78,7	0,74	4,1	1,85	4,65	2,3		
mSSg 112M-6	380	50	2,2	960	21,89	83,8	0,78	5,1	2,2	5,9	2,8	0,0177	33
	440	60	2,6	1160	21,41	85,2	0,79	5,1	2,1	5,85	2,8		
mSSg 132S-6	380	50	3	950	30,16	81	0,78	7,2	2,1	5,4	2,8	0,025	54
	440	60	3,5	1140	29,32	82,7	0,79	7	2,15	5,6	2,9		
mSSg 132M-6A	380	50	4	950	40,21	84	0,79	9,1	2,4	6	3,1	0,032	66
	440	60	4,8	1140	40,21	85,4	0,8	9,2	2,3	6	3,1		
mSSg 132M-6B	380	50	5,5	950	55,29	85	0,79	12,4	2,7	6,3	3,1	0,04	72
	440	60	6,6	1140	55,29	85,7	0,8	12,6	2,6	6	3,1		
mSSg 160M-6	380	50	7,5	960	74,61	87,5	0,81	16	2,3	6,5	3,1	0,072	100
	440	60	9	1155	74,42	88,5	0,82	16,3	2,05	6,2	3		
mSSg 160L-6	380	50	11	960	109,43	88,5	0,82	23	2,4	7	3,1	0,096	125
	440	60	13,2	1150	109,62	89,4	0,83	23,3	2,15	6,65	2,95		
mSSg 180L-6	380	50	15	975	146,92	89	0,84	30,5	2,8	6	2,4	0,22	170
	440	60	18	1175	146,3	89,8	0,84	31,3					
mSg200L6A	380	50	18,5	985	180	90,5	0,88	35,5	2,5	6,8	2,4	0,41	250
	440	60	22	1185	178	90,5	0,88	36	2,5	6,9	2,4		
mSg 200L6B	380	50	22	980	214	90,5	0,88	42	2,4	6,9	2,2	0,47	265
	440	60	26	1180	211	90,5	0,88	42,5	2,4	7	2,2		
mSg 225M6	380	50	30	985	291	91,9	0,88	56	2,1	6,3	2,2	0,76	325
	440	60	36	1185	291	91,9	0,88	58	2,1	6,3	2,2		
mSg 250M6	380	50	37	985	359	92,5	0,89	68	2,6	6,8	2,4	1,23	430
	440	60	44	1185	355	92,5	0,89	70	2,6	6,6	2,4		
mSg 280S6	380	50	45	985	437	93	0,87	85	2	6,5	2,4	1,35	525
	440	60	54	1185	436	93	0,87	87	2	6,3	2,4		
mSg 280M6	380	50	55	985	534	93,5	0,88	100	2,2	6,2	2,2	1,61	565
	440	60	63	1185	508	93,5	0,88	97	2,2	6,4	2,2		
mSg 315S6	380	50	65	985	631	93,5	0,88	120	2,4	6,7	2,4	2,16	730
	440	60	75	1182	607	93,7	0,87	120	2,6	6,9	2		
mSg 315M6A	380	50	80	984	778	93,5	0,88	148	2,3	6,4	2	2,29	740
	440	60	90	1181	729	93,7	0,87	143	2,5	6,6	2,2		
mSg 315M6B	380	50	199	983	973	94	0,88	184	2,4	6,9	2	2,86	830
	440	60	110	1180	892	94,2	0,87	175	2,6	7,1	2,2		



Totally Enclosed Motors IP55 (IP 56)
Insulation Class F

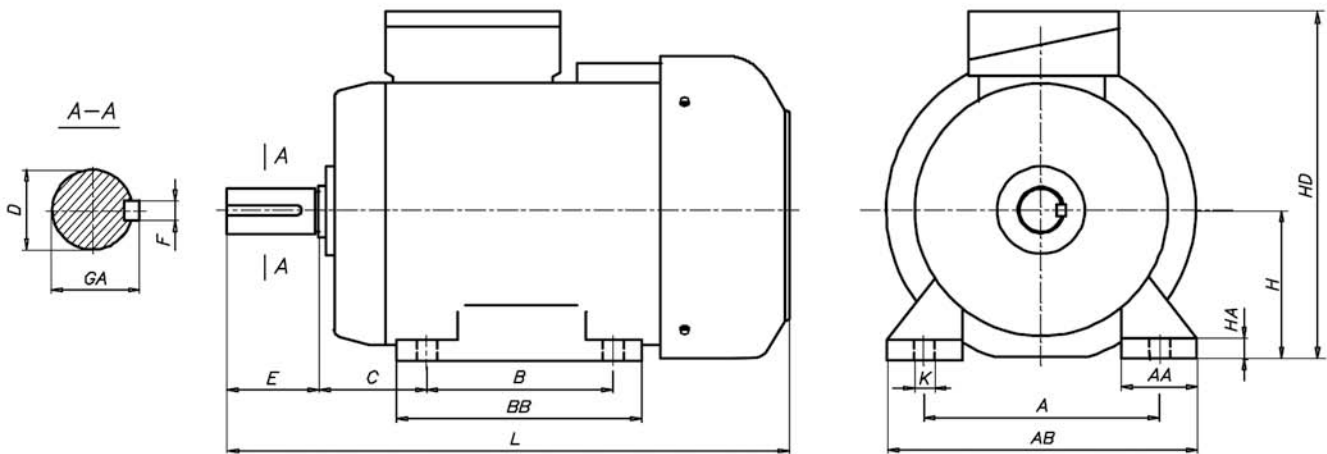
Maximal Temperature Rise of Winding: 95 K

Type	Voltage	Frequency	Rated Output	Rated Speed	Rated Torque	Efficiency	Power Factor	Full Load Current	Locked Rotor Torque	Locked Rotor Current	Breakdown Torque	Moment of Inertia	Weight (IMB3)
	U_N [V]	f_N [Hz]	P_N [kW]	n_N [rpm]	T_N [Nm]	η_N [%]	$\cos \varphi_N$ [-]	I_N [A]	T_L/T_N [-]	I_L/I_N [-]	T_b/T_N [-]	J [kgm ²]	m [kg]
8 poles n=750/900 rpm													
mSh 71-8A	380	50	0,09	680	1,26	35	0,5	0,75	1,9	1,9	1,9	0,000736	4,9
	440	60	0,11	820	1,26	35	0,5	0,75	1,9	1,9	1,9		
mSh 71-8B	380	50	0,12	670	1,71	47	0,63	0,7	1,7	1,9	1,8	0,000946	5,8
	440	60	0,14	800	1,71	47	0,63	0,7	1,7	1,9	1,8		
mSh 80-8A	380	50	0,18	680	2,53	53	0,6	0,9	1,8	2,3	2	0,001693	7,5
	440	60	0,21	820	2,53	53	0,6	0,9	1,8	2,3	2		
mSh 80-8B	380	50	0,25	680	3,51	57	0,6	1,2	1,7	2,5	1,9	0,00207	8,9
	440	60	0,29	820	3,51	57	0,6	1,2	1,7	2,5	1,9		
mSSh 90S-8	380	50	0,37	695	5,08	63,4	0,59	1,5	1,7	2,95	2,3	0,0021	13,4
	440	60	0,45	840	5,12	67	0,59	1,5	1,65	3,2	2,3		
mSSh 90L-8	380	50	0,55	675	7,78	65	0,64	2	1,7	2,8	1,9	0,0024	15,3
	440	60	0,65	825	7,52	68,8	0,63	2	1,7	3,05	1,95		
mSSg 100L-8A	380	50	0,75	710	10,09	71,1	0,66	2,4	1,45	3,5	1,9	0,009	23,6
	440	60	0,9	860	9,99	73,6	0,66	2,4	1,35	3,45	1,9		
mSSg 100L-8B	380	50	1,1	705	14,9	72,2	0,65	3,6	1,6	3,6	1,9	0,01	26,3
	440	60	1,3	855	14,52	74,8	0,65	3,5	1,5	3,6	1,9		
mSSg 112M-8	380	50	1,5	720	19,9	76,8	0,71	4,2	1,9	4,6	2,3	0,0192	31
	440	60	1,8	870	19,76	79	0,72	4,2	1,85	4,65	2,35		
mSSg 132S-8	380	50	2,2	710	29,59	78	0,74	5,8	2	4,7	2,4	0,033	53
	440	60	2,6	860	28,87	80,2	0,77	5,5	2	4,85	2,5		
mSSg 132M-8	380	50	3	710	40,35	80	0,74	7,7	2,3	5	3	0,044	65
	440	60	3,5	855	39,09	82	0,74	7,6	2,3	5,2	3,15		
mSSg 160M-8A	380	50	4	705	54,18	81,5	0,76	9,8	2,2	5	2,7	0,06	85
	440	60	4,8	855	53,61	83,3	0,77	9,8	2,05	5	2,65		
mSSg 160M-8B	380	50	5,5	710	73,98	83	0,75	13,4	2,7	5,5	3	0,077	95
	440	60	6,6	860	73,29	84,7	0,76	13,5	2,45	5,45	2,95		
mSSg 160L-8	380	50	7,5	705	101,6	84,5	0,78	17,2	2,7	5,8	3	0,102	115
	440	60	9	850	101,12	86,1	0,79	17,4	2,45	5,7	2,95		
mSSg 180L-8	380	50	11	730	143,9	89	0,76	24,7	2	5,5	2,4	0,213	165
	440	60	13,2	880	143,25	89,9	0,77	25	1,85	5,25	2,3		
mSg 200L8	380	50	15	735	196	89,5	0,83	30,5	2,2	5,5	2,1	0,45	255
	440	60	18	885	196	89,5	0,83	31	2,2	5,5	2,1		
mSg 225S8	380	50	18,5	735	241	89,5	0,81	39	2	5,6	2	0,58	280
	440	60	22	885	238	89,5	0,81	39,5	2	5,5	2		
mSg 225M8	380	50	22	735	286	90	0,82	45	2	5,2	1,8	0,68	315
	440	60	26	885	281	90	0,82	46	2	5,1	1,8		
mSg 250M8	380	50	30	735	384	91,5	0,84	60	2,5	6,3	2,1	1,27	430
	440	60	36	885	387	91,5	0,84	61	2,5	6,4	2,1		
mSg 280S8	380	50	37	735	481	92,5	0,83	73	2	5,6	1,8	1,47	535
	440	60	44	885	475	92,5	0,83	75	2	5,5	1,8		
mSg 280M8	380	50	45	735	586	92,5	0,84	88	2,1	5,4	2	1,8	590
	440	60	54	885	584	92,5	0,84	93	2,1	5,2	2		
mSg 315S8	380	50	50	735	650	92,6	0,82	100	2,1	5	1,8	2,16	720
	440	60	55	882	596	92,8	0,81	95	2,3	5,2	2		
mSg 315M8A	380	50	65	735	846	92,7	0,79	134	2,4	5,7	1,8	2,29	750
	440	60	75	882	813	92,9	0,78	134	2,6	5,9	2		
mSg 315M8B	380	50	80	737	1038	93	0,82	159	2,5	5,9	2	2,86	825
	440	60	90	884	974	93,2	0,81	155	2,7	6,1	2,2		



MOUNTING AND OVERALL DIMENSIONS

FLANGE MOUNTED MOTORS – MOUNTING FORM IM B3



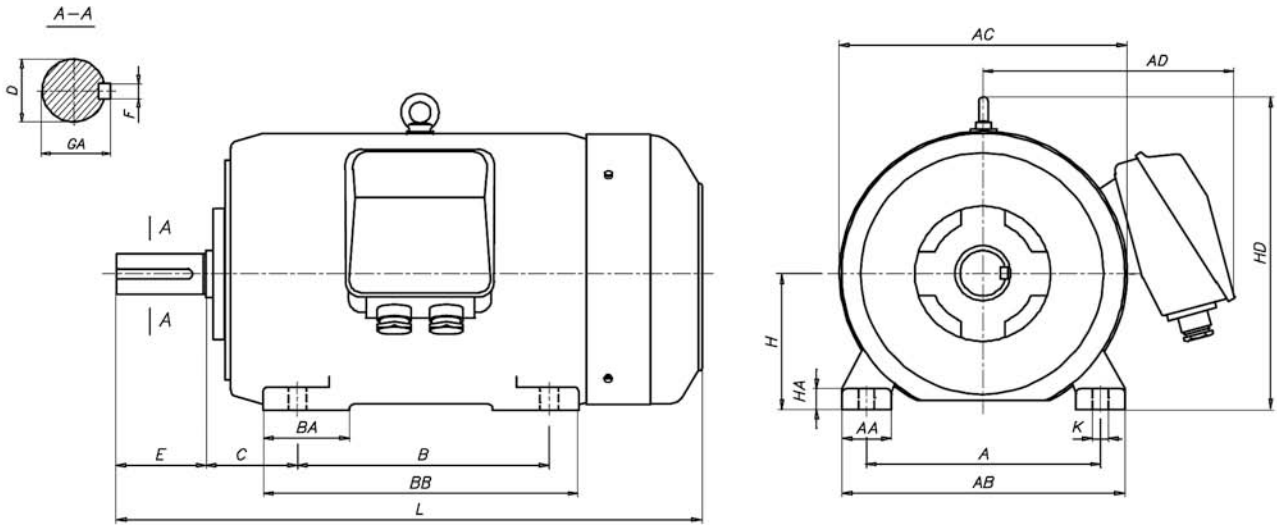
Type of motor	A	B	C	D	E	F	GA	H	HA	K	AA	AB	BB	HD	L
mSg 56-2A	90	71	36	9j6	20	3h9	10,2	56	7	5,8	30	110	92	154	188
mSg 56-4A	90	71	36	9j6	20	3h9	10,2	56	7	5,8	30	110	92	154	149*
mSg 56-2B	90	71	36	9j6	20	3h9	10,2	58	7	5,8	30	110	92	154	196
mSg 56-4B	90	71	36	9j6	20	3h9	10,2	58	7	5,8	30	110	92	154	157*
mSg 63- A	100	80	40	11j6	23	4h9	12,5	63	8,5	7	36	124	106	165	202
mSg 63- B	100	80	40	11j6	24	4h9	13,5	63	8,5	7	36	124	106	165	214
mSg 71- A	112	90	45	14j6	30	5h9	16,0	71	8	7	45	142	116	178	231
mSg 71- B	112	90	45	14j6	31	5h9	17,0	71	8	7	45	142	116	178	240
mSg 80- A	125	100	50	19j6	40	6h9	21,5	80	9	10	55	160	130	195	255
mSg 80- B	125	100	50	19j6	41	6h9	22,5	80	9	10	55	160	130	195	272
mSh 90S ...	140	100	56	24j6	50	8h9	27,0	90	10	10	50	170	153	220	305
mSh 90L ...	140	125	56	24j6	50	8h9	27,0	90	10	10	50	170	153	220	330
mSg 100L ...	160	140	63	28j6	60	8h9	31,0	100	14	12	45	200	172	240	376
mSg 112M ...	190	140	70	28j6	60	8h9	31,0	112	14	12	54	230	174	276	384
mSg 132S ...	216	140	89	38k6	80	10h9	41,0	132	16	12	56	278	182	310	463
mSg 132S-2B	216	140	89	38k6	80	10h9	41,0	132	16	12	56	278	220	310	501
mSg 132M ...	216	178	89	38k6	80	10h9	41,0	132	16	12	56	278	220	310	501
mSg 160M ...	254	210	108	42k6	110	12h9	45,0	160	20	15	60	305	256	370	612
mSg 160L ...	254	254	108	42k6	110	12h9	45,0	160	20	15	60	305	300	370	656
mSg 180M ...	279	241	121	48k6	110	14h9	51,5	180	26	15	70	350	320	408	705
mSg 180L ...	279	279	121	48k6	110	14h9	51,5	180	26	15	70	350	320	408	705

- standard motors type mSg 56-4A and 4B have no fan and fan cover



MOUNTING AND OVERALL DIMENSIONS

FLANGE MOUNTED MOTORS – MOUNTING FORM IM B3

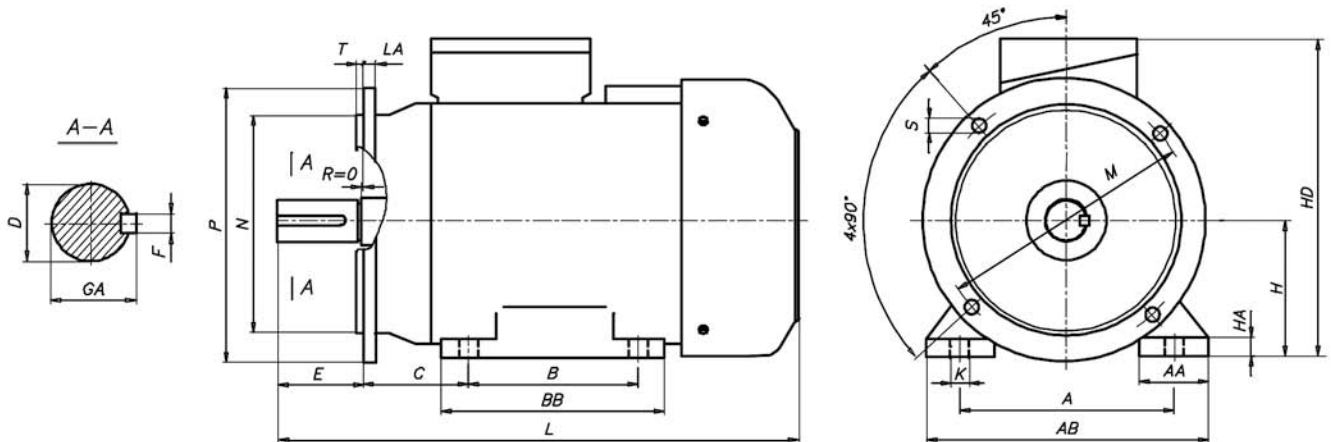


Type of motor	A	B	C	D	E	F	GA	H	HA	K	AA	AB	AC	AD	BA	BB	HD	L
mSg 200 L2÷8	318	305	133	55	110	16	59	200	32	19	80	400	450	355	100	380	485	810
mSg 225 S4÷8	356	286	149	60	140	18	64	225	34	19	85	445	505	375	110	355	535	860
mSg 225 M2	356	311	149	55	110	16	59	225	34	19	85	445	505	375	110	380	535	855
mSg 225 M4÷8	356	311	149	60	140	18	64	225	34	19	85	445	505	375	110	380	535	885
mSg 250 M2	406	349	168	60	140	18	64	250	36	24	90	495	540	415	120	420	590	980
mSg 250 M4÷8	406	349	168	65	140	18	69	250	36	24	90	495	540	415	120	420	590	980
mSg 280 S2	457	368	190	65	140	18	69	280	40	24	100	560	620	450	165	520	660	1040
mSg 280 S4÷8	457	368	190	75	140	20	79.5	280	40	24	100	560	620	450	165	520	660	1040
mSg 280 M2	457	419	190	65	140	18	69	280	40	24	100	560	620	450	165	520	660	1040
mSg 280 M4÷8	457	419	190	75	140	20	79.5	280	40	24	100	560	620	450	165	520	660	1040
mSgm 315 S2	508	406	216	65	140	18	69	315	45	28	120	620	600	550	150	550	692	1143
mSgm 315 S4÷8	508	406	216	80	170	22	85.5	315	45	28	120	620	600	550	150	550	692	1173
mSgm 315 M2	508	457	216	65	140	18	69	315	45	28	120	620	600	550	150	550	692	1184
mSgm 315 M4÷8	508	457	216	80	170	22	85.5	315	45	28	120	620	600	550	150	550	692	1214
mSg 315 M6C	508	457	216	80	170	22	85.5	315	45	28	130	640	694	585	150	550	750	1240
mSg 355 S2	610	500	254	80	170	22	85.5	355	50	28	158	720	764	620	170	600	848	1354
mSg 355 S4÷8	610	500	254	100	210	28	106	355	50	28	158	720	764	620	170	600	848	1394
mSg 355 M2	610	560	254	80	170	22	85.5	355	50	28	158	720	764	620	170	600	848	1354
mSg 355 M4÷8	610	560	254	100	210	28	106	355	50	28	158	720	764	620	205	730	848	1454
mSg 355 L4÷6	610	630	254	100	210	28	106	355	50	28	158	720	764	620	205	730	848	1524



MOUNTING AND OVERALL DIMENSIONS

FOOT / FLANGE MOUNTED MOTORS – MOUNTING FORM IM B35

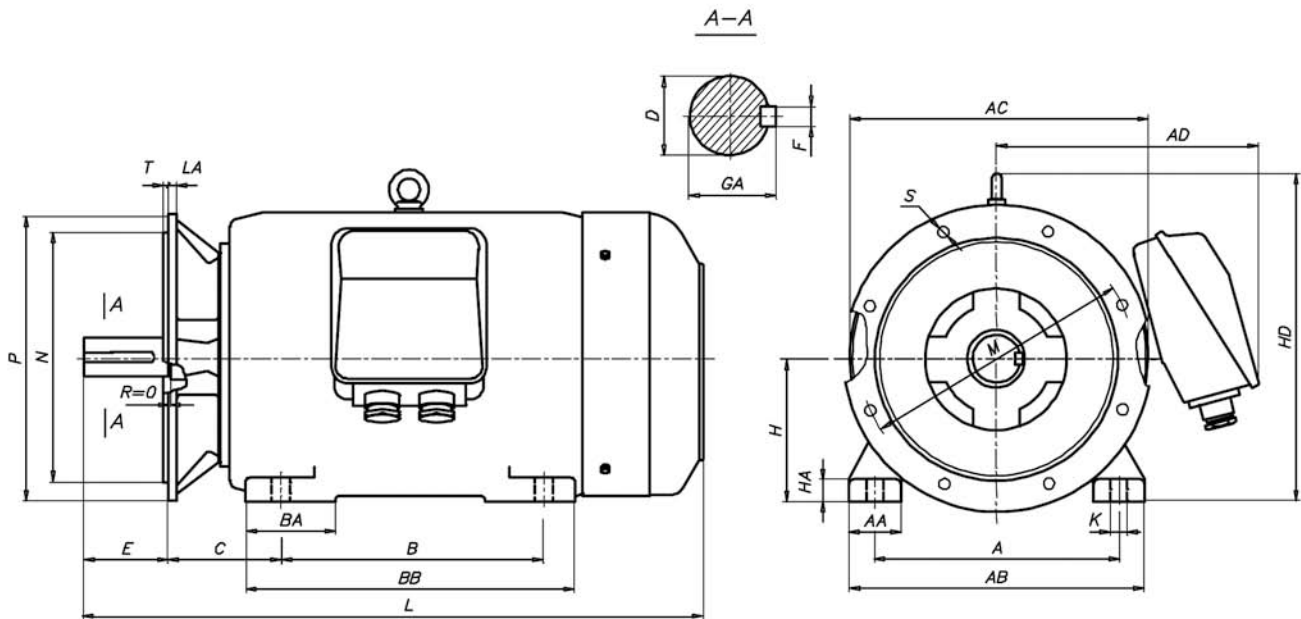


Type of motor	A	B	C	D	E	F	GA	H	HA	K	AA	AB	BB	HD	L	LA	M	N	P	T	S
mSLg 56-2A	90	71	36	9j6	20	3h9	10,2	56	7	5,8	30	110	92	154	188	8	100	80j6	120	3	7
mSLg 56-4A	90	71	36	9j6	20	3h9	10,2	56	7	5,8	30	110	92	154	149	8	100	80j6	120	3	7
mSLg 56-2B	90	71	36	9j6	20	3h9	10,2	56	7	5,8	30	110	92	154	196	8	100	80j6	120	3	7
mSLg 56-4B	90	71	36	9j6	20	3h9	10,2	56	7	5,8	30	110	92	154	157	8	100	80j6	120	3	7
mSLg 63- A	100	80	40	11j6	23	4h9	12,5	63	8,5	7	36	124	106	165	202	9	115	95j6	140	3	10
mSLg 63- B	100	80	40	11j6	23	4h9	12,5	63	8,5	7	36	124	106	165	214	9	115	95j6	140	3	10
mSLg 71- A	12	90	45	14j6	30	5h9	16,0	71	8	7	45	142	116	178	231	9	130	110j6	160	3,5	10
mSLg 71- B	112	90	45	14j6	30	5h9	16,0	71	8	7	45	142	116	178	240	9	130	110j6	160	3,5	10
mSLg 80- A	125	100	125	19j6	40	6h9	21,5	80	9	10	55	160	130	195	255	10	165	130j6	200	3,5	12
mSLg 80- B	125	100	125	19j6	40	6h9	21,5	80	9	10	55	160	130	195	272	10	165	130j6	200	3,5	12
mSLh 90S ...	140	100	56	24j6	50	8h9	27,0	90	10	10	50	170	153	220	305	8	165	130j6	200	3,5	12
mSLh 90L ...	140	125	56	24j6	50	8h9	27,0	90	10	10	50	170	153	220	330	8	165	130j6	200	3,5	12
mSLg 100L ...	160	140	63	28j6	60	8h9	31,0	100	14	12	45	200	172	240	376	11	215	180j6	250	4,0	15
mSLg 112M ...	190	140	70	28j6	60	8h9	31,0	112	14	12	54	230	174	276	384	12	215	180j6	250	4,0	15
mSLg 132S ...	216	140	89	38k6	80	10h9	41,0	132	16	12	56	278	182	310	463	12	265	230j6	300	4,0	15
mSLg 132S-2B	216	140	89	38k6	80	10h9	41,0	132	16	12	56	278	220	310	501	12	265	230j6	300	4,0	15
mSLg 132M ...	216	178	89	38k6	80	10h9	41,0	132	16	12	56	278	220	310	501	12	265	230j6	300	4,0	15
mSLg 160M ...	254	210	108	42k6	110	12h9	45,0	160	20	15	60	305	256	370	612	13	300	250j6	350	5,0	19
mSLg 160L ...	254	254	108	42k6	110	12h9	45,0	160	20	15	60	305	300	370	656	13	300	250j6	350	5,0	19
mSLg 180M ...	279	241	121	48k6	110	14h9	51,5	180	26	15	70	350	320	408	705	13	300	250j6	350	5,0	19
mSLg 180L ...	279	279	121	48k6	110	14h9	51,5	180	26	15	70	350	320	408	705	13	300	250j6	350	5,0	19



MOUNTING AND OVERALL DIMENSIONS

FOOT / FLANGE MOUNTED MOTORS – MOUNTING FORM IM B35

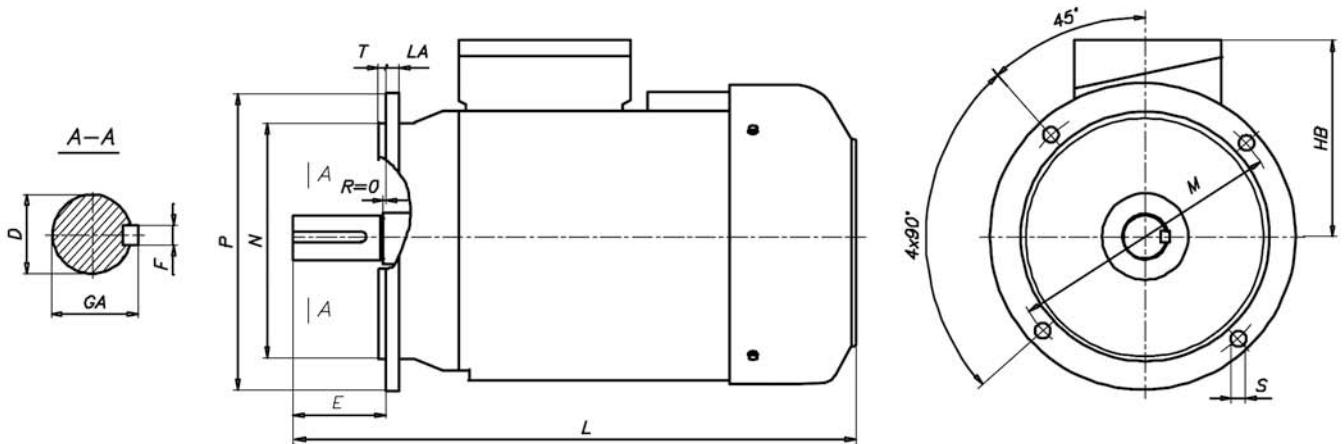


Type of motor	A	B	C	D	E	F	GA	H	HA	K	AA	AB	AC	AD	BA	BB	HD	L	LA	M	N	P	T	S	
																								∅	Quantity
mSLg 200 L2÷8	318	305	133	55	110	16	59	200	32	19	80	400	450	355	100	380	485	810	16.5	350	300	400	5	18	4
mSLg 225 S4÷8	356	286	149	60	140	18	64	225	34	19	85	445	505	375	110	355	535	860	18	400	350	450	5	18	8
mSLg 225 M2	356	311	149	55	110	16	59	225	34	19	85	445	505	375	110	380	535	855	18	400	350	450	5	18	8
mSLg 225 M4÷8	356	311	149	60	140	18	64	225	34	19	85	445	505	375	110	380	535	885	18	400	350	450	5	18	8
mSLg 250 M2	406	349	168	60	140	18	64	250	36	24	90	495	540	415	120	420	590	980	19	500	450	550	5	18	8
mSLg 250 M4÷8	406	349	168	65	140	18	69	250	36	24	90	495	540	415	120	420	590	980	19	500	450	550	5	18	8
mSLg 280 S2	457	368	190	65	140	18	69	280	40	24	100	560	620	450	165	520	660	1040	20	500	450	550	5	18	8
mSLg 280 S4÷8	457	368	190	75	140	20	79.5	280	40	24	100	560	620	450	165	520	660	1040	20	500	450	550	5	18	8
mSLg 280 M2	457	419	190	65	140	18	69	280	40	24	100	560	620	450	165	520	660	1040	20	500	450	550	5	18	8
mSLg 280 M4÷8	457	419	190	75	140	20	79.5	280	40	24	100	560	620	450	165	520	660	1040	20	500	450	550	5	18	8
mSLgm 280 M4	457	419	190	75	140	20	79.5	280	40	24	100	560	600	520	150	520	660	1053	20	500	450	550	5	18	8
mSLgm 315 S2	508	406	216	65	140	18	69	315	45	28	120	620	600	550	150	550	692	1143	22	600	550	660	6	22	8
mSLgm 315 S4÷8	508	406	216	80	170	22	85.5	315	45	28	120	620	600	550	150	550	692	1173	22	600	550	660	6	22	8
mSLgm 315 M2	508	457	216	65	140	18	69	315	45	28	120	620	600	550	150	550	692	1184	22	600	550	660	6	22	8
mSLgm 315 M4÷8	508	457	216	80	170	22	85.5	315	45	28	120	620	600	550	150	550	692	1214	22	600	550	660	6	22	8
mSLg 315 M6C	508	457	216	80	170	22	85.5	315	45	28	130	640	694	585	150	550	750	1240	22	600	550	660	6	22	8
mSLg 355 S2	610	500	254	80	170	22	85.5	355	50	28	158	720	764	620	170	600	848	1354	24	740	680	800	6	22	8
mSLg 355 S4÷8	610	500	254	100	210	28	106	355	50	28	158	720	764	620	170	600	848	1394	24	740	680	800	6	22	8
mSLg 355 M2	610	560	254	80	170	22	85.5	355	50	28	158	720	764	620	170	600	848	1354	24	740	680	800	6	22	8
mSLg 355 M4÷8	610	560	254	100	210	28	106	355	50	28	158	720	764	620	205	730	848	1454	24	740	680	800	6	22	8
mSLg 355 L4÷6	610	630	254	100	210	28	106	355	50	28	158	720	764	620	205	730	848	1524	24	740	680	800	6	22	8



MOUNTING AND OVERALL DIMENSIONS

FLANGE MOUNTED MOTORS – MOUNTING FORMS IM B5, IMV1, IMV3

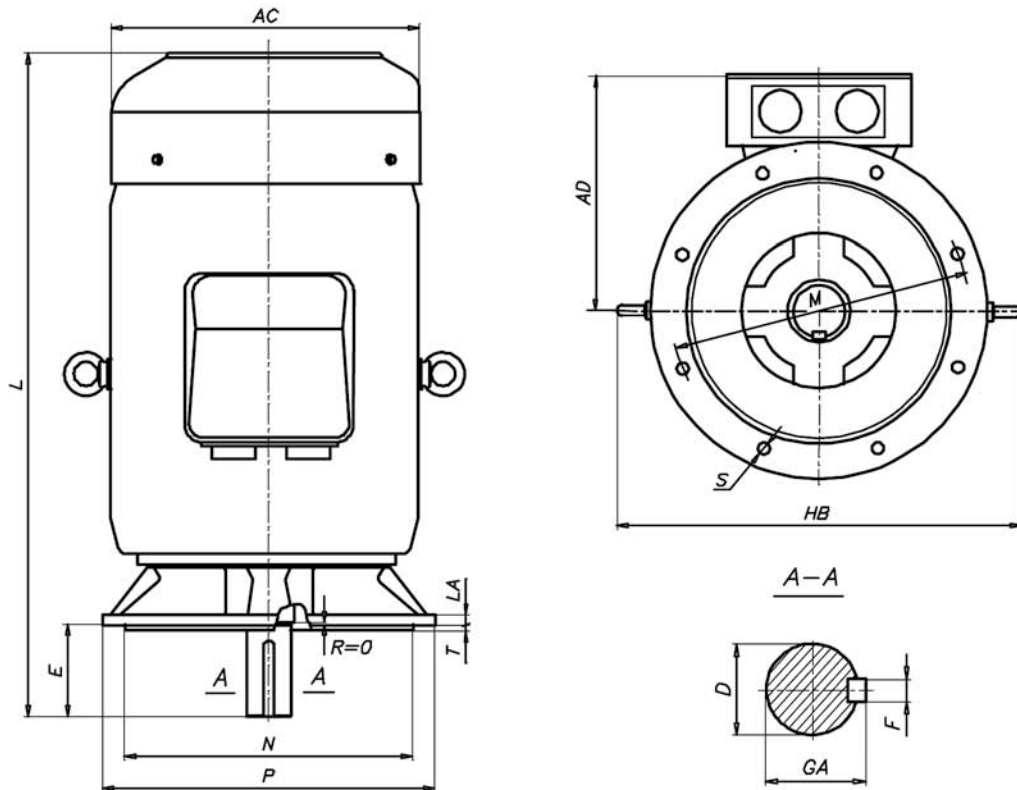


Type of motor	D	E	F	GA	M	N	P	LA	T	S	HB	L
mSKg 56-2A	9j6	20	3h9	10,2	100	80j6	120	8	3	7	98	188
mSKg 56-4A	9j6	21	3h9	10,2	100	80j6	120	8	3	8	98	149*
mSKg 56-2B	9j6	22	3h9	10,2	100	80j6	120	8	3	9	98	196
mSKg 56-4B	9j6	23	3h9	10,2	100	80j6	120	8	3	10	98	157*
mSKg 63- A	11j6	23	4h9	12,5	115	95j6	140	9	3	10	102	202
mSKg 63- B	11j6	24	4h9	12,5	115	95j6	140	9	3	11	102	214
mSKg 71- A	14j6	30	5h9	16	130	110j6	160	9	3,5	10	107	231
mSKg 71- B	14j6	31	5h9	16	130	110j6	160	9	3,5	11	107	240
mSKg 80- A	19j6	40	6h9	21,5	165	130j6	200	10	3,5	12	115	255
mSKg 80- B	19j6	41	6h9	21,5	165	130j6	200	10	3,5	13	115	272
mSKh 90S ...	24j6	50	8h9	27,0	165	130j6	200	8	3,5	12	130	305
mSKh 90L ...	24j6	50	8h9	27,0	165	130j6	200	8	3,5	12	130	330
mSKg 100L ...	28j6	60	8h9	31,0	215	180j6	250	11	4,0	15	140	376
mSKg 112M ...	28j6	60	8h9	31,0	215	180j6	250	12	4,0	15	164	384
mSKg 132S ...	38k6	80	10h9	41,0	265	230j6	300	12	4,0	15	178	463
mSKg 132S-2B	38k6	80	10h9	41,0	265	230j6	300	12	4,0	15	178	501
mSKg 132M ...	38k6	80	10h9	41,0	265	230j6	300	12	4,0	15	178	501
mSKg 160M ...	42k6	110	12h9	45,0	300	250j6	350	13	5,0	19	210	612
mSKg 160L ...	42k6	110	12h9	45,0	300	250j6	350	13	5,0	19	210	656
mSKg 180M ...	48k6	110	14h9	51,5	300	250j6	350	13	5,0	19	228	705
mSKg 180L ...	48k6	110	14h9	51,5	300	250j6	350	13	5,0	19	228	705



MOUNTING AND OVERALL DIMENSIONS

FLANGE MOUNTED MOTORS – MOUNTING FORMS IM B5, IMV1, IMV3



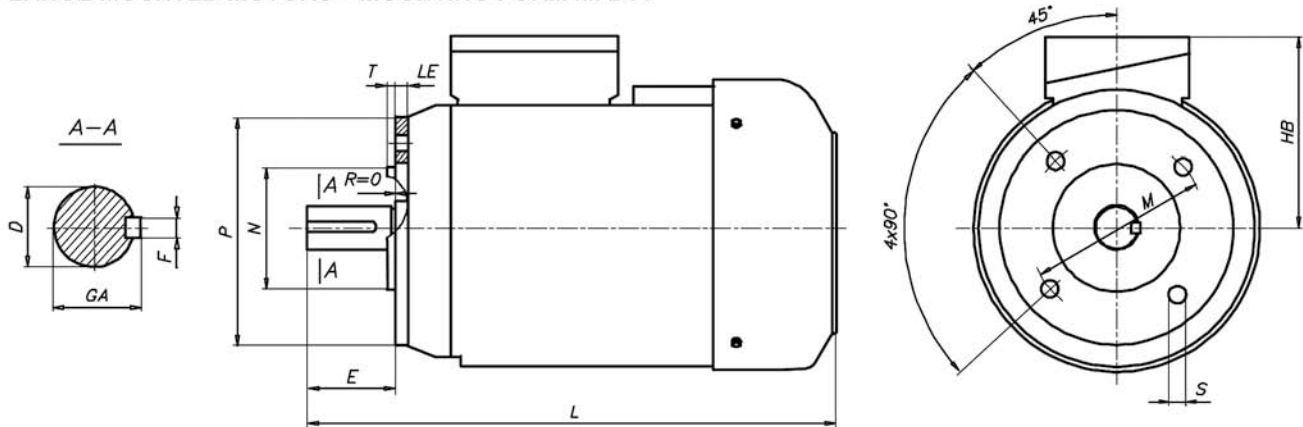
Type of motor	D	E	F	GA	AC	AD	HB	L	LA	M	N	P	T	S	
														∅	Quantity
mSKg 200 L2÷8	55	110	16	59	450	355	570	810	16.5	350	300	400	5	18	4
mSKg 225 S4÷8	60	140	18	64	505	375	620	860	18	400	350	450	5	18	8
mSKg 225 M2	55	110	16	59	505	375	620	855	18	400	350	450	5	18	8
mSKg 225 M4÷8	60	140	18	64	505	375	620	885	18	400	350	450	5	18	8
mSKg 250 M2	60	140	18	64	540	415	675	980	19	500	450	550	5	18	8
mSKg 250 M4÷8	65	140	18	69	540	415	675	980	19	500	450	550	5	18	8
mSKg 280 S2	65	140	18	69	620	450	755	1040	20	500	450	550	5	18	8
mSKg 280 S4÷8	75	140	20	79.5	620	450	755	1040	20	500	450	550	5	18	8
mSVgm 280 S,M 4÷8	75	140	20	79.5	600	510	760	1053	20	500	450	550	5	18	8
mSKg 280 M2	65	140	18	69	620	450	755	1040	20	500	450	550	5	18	8
mSKg 280 M4÷8	75	140	20	79.5	620	450	755	1040	20	500	450	550	5	18	8
mSVgm 280 M4 *	75	140	20	79.5	600	510	760	1053	20	500	450	550	5	18	8
mSVgm 315 S4÷8 *	80	170	22	85	600	510	760	1173	22	600	550	660	6	22	8
mSVgm 315 M4÷8 *	80	170	22	85	600	510	760	1214	22	600	550	660	6	22	8
mSVg 315 M6C *	80	170	22	85	693	551	877	1355	22	600	550	660	6	22	8
mSVg 355 S4÷8 *	100	210	28	106	767	588	970	1580	24	740	680	800	6	22	8
mSVg 355 M4÷8 *	100	210	28	106	767	588	970	1580	24	740	680	800	6	22	8
mSVg 355 L4÷6 *	100	210	28	106	767	588	970	1580	24	740	680	800	6	22	8

* - motors series mSVgm and mSVg can work only at vertical position IMV1



MOUNTING AND OVERALL DIMENSIONS

FLANGE MOUNTED MOTORS – MOUNTING FORM IM B14



Type of motor	Flange	D	E	F	GA	M	N	P	S	T	LE	HB	L
SKg 56-2A1	B14/1	9j6	20	3h9	10,2	85	70j6	105	M6	2,5	15	98	188
SKg 56-2A2	B14/2	9j6	20	3h9	10,2	65	50j6	80	M5	2,5	12,5	98	188
SKg 56-4A1	B14/1	9j6	20	3h9	10,2	85	70j6	105	M6	2,5	15	98	149
SKg 56-4A2	B14/2	9j6	20	3h9	10,2	65	50j6	80	M5	2,5	12,5	98	149
SKg 56-2B1	B14/1	9j6	20	3h9	10,2	85	70j6	105	M6	2,5	15	98	196
SKg 56-2B2	B14/2	9j6	20	3h9	10,2	65	50j6	80	M5	2,5	12,5	98	196
SKg 56-4B1	B14/1	9j6	20	3h9	10,2	85	70j6	105	M6	2,5	15	98	157
SKg 56-4B2	B14/2	9j6	20	3h9	10,2	65	50j6	80	M5	2,5	12,5	98	157
SKg 63- A1	B14/1	11j6	23	4h9	12,5	100	80j6	120	M6	3	14	102	202
SKg 63- A2	B14/2	11j6	23	4h9	12,5	70	60j6	90	M5	2,5	9,5	102	202
SKg 63- B1	B14/1	11j6	23	4h9	12,5	100	80j6	120	M6	3	14	102	214
SKg 63- B2	B14/2	11j6	23	4h9	12,5	70	60j6	90	M5	2,5	9,5	102	214
SKg 71- A1	B14/1	14j6	30	5h9	16,0	115	95j6	140	M8	3	14	107	231
SKg 71- A2	B14/2	14j6	30	5h9	16,0	85	70j6	105	M6	2,5	12	107	231
SKg 71- B1	B14/1	14j6	30	5h9	16,0	115	95j6	140	M8	3	14	107	240
SKg 71- B2	B14/2	14j6	30	5h9	16,0	85	70j6	105	M6	2,5	12	107	240
SKg 80- A1	B14/1	19j6	40	6h9	21,5	130	110j6	160	M8	3,5	14	115	255
SKg 80- A2	B14/2	19j6	40	6h9	21,5	100	80j6	120	M6	3	12	115	255
SKg 80- B1	B14/1	19j6	40	6h9	21,5	130	110j6	160	M8	3,5	14	115	272
SKg 80- B2	B14/2	19j6	40	6h9	21,5	100	80j6	120	M6	3	12	115	272



Motors for axial-flow fans are designed in the following way:

- the rotor of the driven fan is fixed directly on motor shaft,
- the motor frame is located inside the ventilation duct,
- the motor is not equipped with own fan,
- air stream pressed through the driven fan is used for the motor cooling.

PERFORMANCE OF MOTORS

Totally enclosed motors IP55 (IP56)

(with temperature-rise of the winding not exceeding 95 deg)

Catalogue no.	Type of motor	Voltage	Frequency	Rated output	Rated speed	Rated torque	Rated efficiency	Power factor	Full-load amps at rated voltage	Locked rotor torque	Locked rotor current	Breakdown torque	Moment of inertia	Weight (IMB3)	Manufacturer
				P_n	n_n	T_n	η_n	$\cos \varphi_n$	I_{1n}	T_s/T_n	I_s/I_n	T_{max}/T_n	J	m	
		[V]	[Hz]	[kW]	[min ⁻¹]	[Nm]	[%]	[-]	[A]	[-]	[-]	[-]	[kgm ²]	kg	
2p=2 n_s=3000/3600 rpm															
1.	2mSSBg 180M-2	380 440	50 60	22,0 25,3	2920 3520	71,95 68,64	89,4 89,8	0,88 0,88	42,5 42,0	2,5 2,55	6,0 5,9	2,5 2,55	0,0760 0,0760	162,0 162,0	I
2p=4 n_s=1500/1800 rpm															
2.	mSSBg 132M-4	380 440	50 60	7,5 9,0	1450 1740	49,40 49,40	87,0 88,0	0,85 0,86	15,4 15,6	2,4 2,3	6,7 6,45	3,1 3,0	0,0350 0,0350	70,0 70,0	I
3.	2mSSBg 160M-4	380 440	50 60	11,0 13,2	1460 1755	71,95 71,83	89,0 89,7	0,85 0,86	22,0 22,5	2,3 2,2	7,0 6,75	3,1 3,0	0,0610 0,0610	113,0 113,0	I
4.	2mSSBg 160L-4	380 440	50 60	15,0 18,0	1460 1750	98,12 98,23	89,5 90,2	0,87 0,88	29,2 29,8	2,4 2,3	7,3 7,0	3,2 3,1	0,0750 0,0750	133,0 133,0	I
5.	2mSSBg 180M-4	380 440	50 60	18,5 22,2	1470 1770	90,5 91,1	90,5 91,1	0,90 0,91	34,5 35,1	2,4 2,3	6,8 6,4	2,9 2,75	0,1350 0,1350	162,0 162,0	I
2p=8 n_s=1000/1200 rpm															
6.	mSSBg 132M-6B	380 440	50 60	5,5 6,6	950 1140	55,29 55,29	85,0 85,7	0,79 0,80	12,4 12,6	2,7 2,6	6,3 6,0	3,1 3,1	0,0400 0,0400	69,0 69,0	I
7.	2mSSBg 160M-6	380 440	50 60	7,5 9,0	960 1155	74,61 74,42	87,5 88,5	0,81 0,82	16,0 16,3	2,3 2,05	6,5 6,2	3,1 3,0	0,0720 0,0720	108,0 108,0	I
8.	2mSSBg 160L-6	380 440	50 60	11,0 13,2	960 1150	109,43 109,62	88,5 89,4	0,82 0,83	23,0 23,3	2,4 2,15	7,0 6,65	3,1 2,95	0,0960 0,0960	133,0 133,0	I

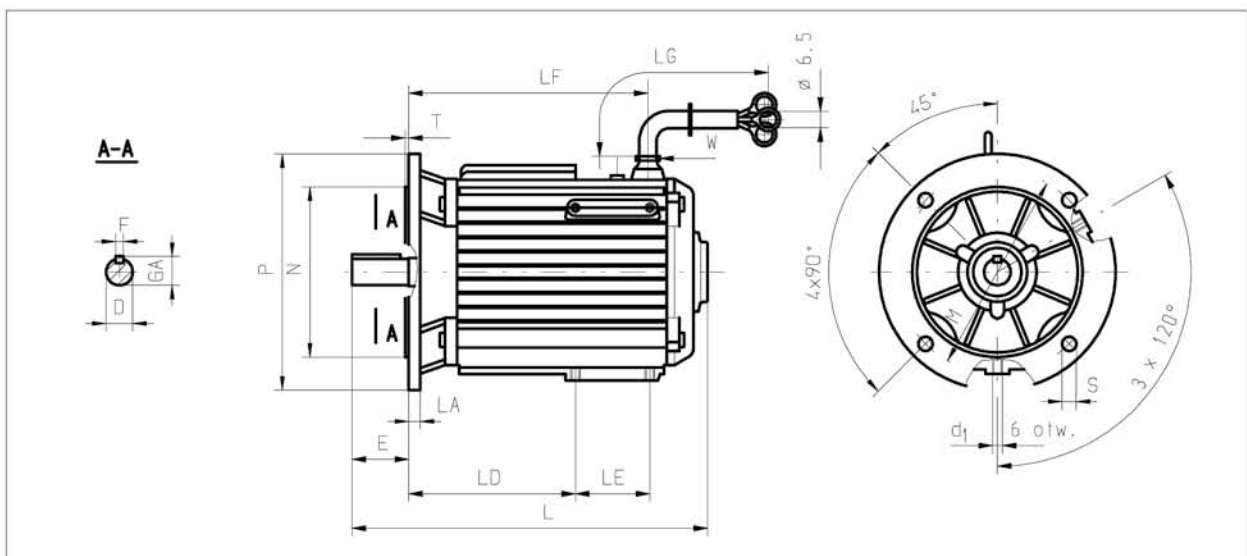


MOUNTING FORMS, BEARINGS

FOOT MOUNTING Type / available execution	FOOT / FLANGE MOUNTING Type / available execution	FLANGE MOUNTING Type / available execution	BEARING SIZES	
			D	ND
2p = 2 n_s=3000/3600 rpm				
		2mSSBKg 180M-2 B5/V1	6311 2Z	6311 2Z
2p = 4 n_s1500/1800 rpm				
		MSSBKg 132M-4 B5/V1	6308 2Z	6308 2Z
		2mSSBKg 160M-4 B5/V1	6309 2Z	6309 2Z
		2mSSBKg 160L-4 B5/V1	6309 2Z	6309 2Z
		2mSSBKg 180M-4 B5/V1	6311 2Z	6311 2Z
2p = 6 n_s=1000/1200 rpm				
		MSSBKg132M-6B B5/V1	6308 2Z	6308 2Z
		2mSSBKg160M-6 B5/V1	6309 2Z	6309 2Z
		2mSSBKg160L-6 B5/V1	6309 2Z	6309 2Z

MOUNTING AND OVERALL DIMENSIONS

FLANGE MOUNTED MOTORS – MOUNTING FORMS IM B5/V1



Type of motor	D	E	F	GA	M.	N	P	LA	T	S	LG	LF	LE	LD	L
mSSBKg 132M ...	38k6	80	10h9	41,0	265	230j6	300	12	4,0	15	810	84	-	-	435
2mSSBKg 160M-4	42k6	110	12h9	45,0	300	250j6	350	13	5,0	19	810	327	100	181	520
2mSSBKg 160M-6	42k6	110	12h9	45,0	300	250j6	350	13	5,0	19	1100	327	100	181	520
2mSSBKg 160L ...	42k6	110	12h9	45,0	300	250j6	350	13	5,0	19	1100	370	100	213	564
2mSSBKg 180M ...	48k6	110	14h9	51,5	300	250j6	350	13	5,0	19	1100	373	-	-	572



Motors for pumps stated in this catalogue are designed in the following way:

- * rotor of the pump is fixed directly on special execution motor shaft,
- * pump casing is fixed on the motor flange,
- * motor bearings are used for pump bearing system.

PERFORMANCE OF MOTORS

Totally enclosed motors IP54 (IP55, IP56)

(with temperature-rise of the winding not exceeding 95 deg)

Catalogue no.	Type of motor	Voltage	Frequency	Rated output	Rated speed	Rated torque	Rated efficiency	Power factor	Full-load amps at rated voltage	Locked rotor torque	Locked rotor current	Breakdown torque	Moment of inertia	Weight (IMB3)	Manufacturer
				P_n	n_n	T_n	η_n	$\cos \varphi_n$	I_{1n}	T_s/T_n	I_s/I_n	T_{max}/T_n	J	m	
		[V]	[Hz]	[kW]	[min ⁻¹]	[Nm]	[%]	[-]	[A]	[-]	[-]	[-]	[kgm ²]	kg	

		2p=2		$n_s=3000/3600$ rpm											
1.	mSg 200L2A-WX	380	50	30,0	2960	97,0	93,0	0,88	56,0	1,9	6,0	2,0	0,15	245,0	C
		440	60	34,0	3560	91,0			54,0					245,0	
2.	mSg 200L2B-WX	380	50	37,0	2960	120,0	93,5	0,89	67,0	2,2	6,7	2,0	0,18	265,0	C
		440	60	41,0	3575	110,0			62,0					265,0	
3.	mSg 225M2-WX	380	50	45,0	2970	145,0	94,0	0,89	81,0	2,4	7,0	2,1	0,26	335,0	C
		440	60	51,0	3570	137,0			80,0					335,0	
4.	mSg 250M2-WX	380	50	55,0	2970	177,0	93,5	0,90	99,0	2,0	6,9	2,0	0,36	410,0	C
		440	60	62,0	3570	167,0			96,0					410,0	
5.	mSg 280S2-WX	380	50	75,0	2970	241,0	93,5	0,91	134,0	2,1	7,5	3,3	0,76	535,0	C
		440	60	84,0	3570	224,0			129,0					535,0	
6.	mSg 280M2-WX	380	50	90,0	2970	290,0	94,7	0,91	159,0	2,0	7,6	3,2	0,87	605,0	C
		440	60	99,0	3570	266,0			150,0					605,0	

		2p=4		$n_s=1500/1800$ rpm											
7.	mSg200L4-WX	380	50	30,0	1470	195,0	92,5	0,88	56,0	2,9	7,1	2,5	0,31	265,0	C
		440	60	35,0	1770	189,0			56,0					265,0	
8.	mSg225M4-WX	380	50	45,0	1480	291,0	94,0	0,88	83,0	2,4	7,0	2,3	0,53	345,0	C
		440	60	52,0	1780	279,0			82,0					345,0	

		2p=8		$n_s=1000/1200$ rpm											
9.	mSg280S6-WX	380	50	45,0	985	437,0	93,0	0,87	85,0	2,0	6,5	2,4	1,35	510,0	C
		440	60	54,0	1185	436,0			87,0					510,0	
10.	mSg280M6-WX	440	50	55,0	985	534,0	93,5	0,88	100,0	2,2	6,2	2,2	1,61	535,0	C
		440	60	63,0	1185	508,0			97,0					535,0	

		2p=8		$n_s=750/900$ rpm											
11.	mSg225M8-WX	380	50	22,0	735	286,0	90,0	0,82	45,0	2,0	5,2	1,8	0,68	315,0	C
		440	60	26,0	885	281,0			46,0					315,0	
12.	mSg250M8-WX	380	50	30,0	735	384,0	91,5	0,84	60,0	2,5	6,3	2,1	1,27	420,0	C
		440	60	36,0	885	387,0			61,0					420,0	
13.	mSg280S8-WX	380	50	37,0	735	481,0	92,5	0,83	73,0	2,0	5,6	1,8	1,47	520,0	C
		440	60	44,0	885	475,0			75,0					520,0	
14.	mSg280M8-WX	380	50	45,0	735	586,0	92,5	0,84	88,0	2,1	5,4	2,0	1,80	580,0	C
		440	60	54,0	885	584,0			93,0					580,0	



Motors for pumps stated in this catalogue are designed in the following way:

- * rotor of the pump is fixed directly on special execution motor shaft,
- * pump casing is fixed on the motor flange,
- * motor bearings are used for pump bearing system.

PERFORMANCE OF MOTORS

Totally enclosed motors IP54 (IP55, IP56)

(with temperature-rise of the winding not exceeding 95 deg)

Catalogue no.	Type of motor	Voltage	Frequency	Rated output	Rated speed	Rated torque	Rated efficiency	Power factor	Full-load amps at rated voltage	Locked rotor torque	Locked rotor current	Breakdown torque	Moment of inertia	Weight (IMB3)	Manufacturer
				P_n	n_n	T_n	η_n	$\cos \varphi_n$	I_{1n}	T_s/T_n	I_s/I_n	T_{max}/T_n	J	m	
		[V]	[Hz]	[kW]	[min ⁻¹]	[Nm]	[%]	[-]	[A]	[-]	[-]	[-]	[kgm ²]	kg	

		2p=2		n _s =3000/3600 rpm												
1.	mSg 200L2A-WX	380	50	30,0	2960	97,0			56,0							C
		440	60	34,0	3560	91,0	93,0	0,88	54,0	1,9	6,0	2,0	0,15	245,0		
2.	mSg 200L2B-WX	380	50	37,0	2960	120,0			67,0							C
		440	60	41,0	3575	110,0	93,5	0,89	62,0	2,2	6,7	2,0	0,18	265,0		
3.	mSg 225M2-WX	380	50	45,0	2970	145,0			81,0							C
		440	60	51,0	3570	137,0	94,0	0,89	80,0	2,4	7,0	2,1	0,26	335,0		
4.	mSg 250M2-WX	380	50	55,0	2970	177,0			99,0							C
		440	60	62,0	3570	167,0	93,5	0,90	96,0	2,0	6,9	2,0	0,36	410,0		
5.	mSg 280S2-WX	380	50	75,0	2970	241,0			134,0							C
		440	60	84,0	3570	224,0	93,5	0,91	129,0	2,1	7,5	3,3	0,76	535,0		
6.	mSg 280M2-WX	380	50	90,0	2970	290,0			159,0							C
		440	60	99,0	3570	266,0	94,7	0,91	150,0	2,0	7,6	3,2	0,87	605,0		

		2p=4		n _s =1500/1800 rpm												
7.	mSg200L4-WX	380	50	30,0	1470	195,0			56,0							C
		440	60	35,0	1770	189,0	92,5	0,88	56,0	2,9	7,1	2,5	0,31	265,0		
8.	mSg225M4-WX	380	50	45,0	1480	291,0			83,0							C
		440	60	52,0	1780	279,0	94,0	0,88	82,0	2,4	7,0	2,3	0,53	345,0		

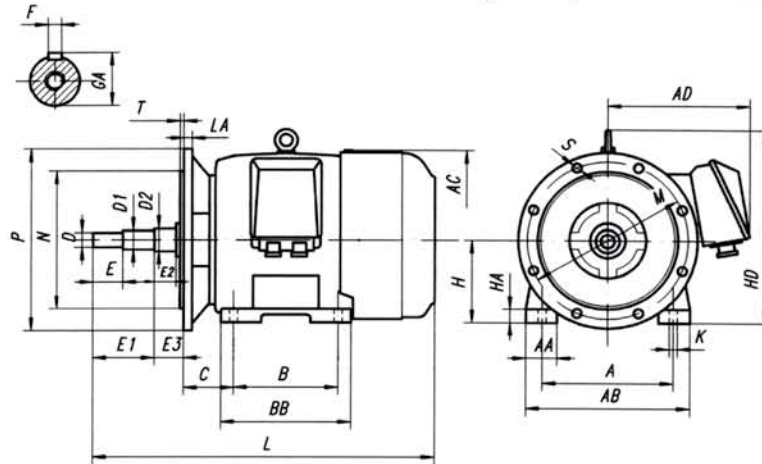
		2p=8		n _s =1000/1200 rpm												
9.	mSg280S6-WX	380	50	45,0	985	437,0			85,0							C
		440	60	54,0	1185	436,0	93,0	0,87	87,0	2,0	6,5	2,4	1,35	510,0		
10.	mSg280M6-WX	440	50	55,0	985	534,0			100,0							C
		440	60	63,0	1185	508,0	93,5	0,88	97,0	2,2	6,4	2,2	1,61	535,0		

		2p=8		n _s =750/900 rpm												
11.	mSg225M8-WX	380	50	22,0	735	286,0			45,0							C
		440	60	26,0	885	281,0	90,0	0,82	46,0	2,0	5,2	1,8	0,68	315,0		
12.	mSg250M8-WX	380	50	30,0	735	384,0			60,0							C
		440	60	36,0	885	387,0	91,5	0,84	61,0	2,5	6,3	2,1	1,27	420,0		
13.	mSg280S8-WX	380	50	37,0	735	481,0			73,0							C
		440	60	44,0	885	475,0	92,5	0,83	75,0	2,0	5,6	1,8	1,47	520,0		
14.	mSg280M8-WX	380	50	45,0	735	586,0			88,0							C
		440	60	54,0	885	584,0	92,5	0,84	93,0	2,1	5,4	2,0	1,80	580,0		



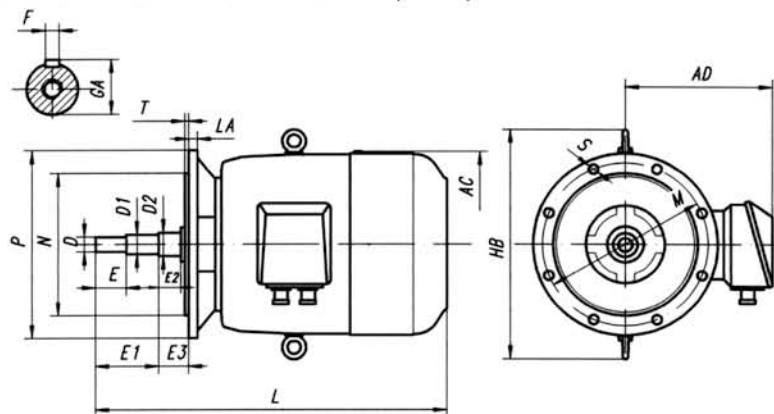
MOUNTING AND OVERALL DIMENSIONS

FOOT / FLANGE MOUNTED MOTORS – MOUNTING FORMS IM B35, IM V15, IM V36



Type of motor	A	B	C	D	D1	D2	E	E1	E2	E3	H	HA	K	AA	AB	AC	AD	BB	HD	L	LA	M	N	P	T	S	
																										∅	Quantity
mSLg 200 L2A-W5	318	305	133	32j6	35	40	65	139	60	80	200	32	19	80	400	450	355	380	485	919	16.5	350	300	400	5	18	4
mSLg 200 L2A-W6	318	305	133	40k6	44	50	82	139	60	80	200	32	19	80	400	450	355	380	485	948	16.5	350	300	400	5	18	4
mSLg 200 L2B-W5	318	305	133	32j6	35	40	65	139	60	80	200	32	19	80	400	450	355	380	485	919	16.5	350	300	400	5	18	4
mSLg 200 L2B-W6	318	305	133	40k6	44	50	82	139	60	80	200	32	19	80	400	450	355	380	485	948	16.5	350	300	400	5	18	4
mSLg 225 M2-W5	356	311	149	32j6	35	40	65	139	60	80	225	34	19	85	445	505	375	380	535	964	18	400	350	450	5	18	8
mSLg 225 M2-W6	356	311	149	40k6	44	50	82	168	80	80	225	34	19	85	445	505	375	380	535	993	18	400	350	450	5	18	8
mSLg 225 M8-W7/UM	356	311	149	50k6	55	63	110	198	100	200	225	34	19	85	445	505	375	380	535	1143	18	400	350	450	5	18	8
mSLg 250 M2-W6	406	349	168	40k6	44	50	82	168	80	80	250	36	24	90	495	540	415	420	590	1088	19	500	450	550	5	18	8
mSLg 250 M2-W7/UM	406	349	168	50k6	55	63	110	198	100	200	250	36	24	90	495	540	415	420	590	1238	19	500	450	550	5	18	8
mSLg 250 M8-W7/UM	406	349	168	50k6	55	63	110	198	100	200	250	36	24	90	495	540	415	420	590	1238	19	500	450	550	5	18	8
mSLg 280 S2-W6	457	368	190	40k6	44	50	82	168	80	80	280	40	24	100	560	620	450	520	660	1148	20	500	450	550	5	18	8
mSLg 280 S6-W7/UM	457	368	190	50k6	55	63	110	198	100	250	280	40	24	100	560	620	450	520	660	1348	20	500	450	550	5	18	8
mSLg 280 S8-W7/UM	457	368	190	50k6	55	63	110	198	100	200	280	40	24	100	560	620	450	520	660	1348	20	500	450	550	5	18	8
mSLg 280 M2-W6	457	419	190	40k6	44	50	82	168	80	80	280	40	24	100	560	620	450	520	660	1148	20	500	450	550	5	18	8
mSLg 280 M6-W7/UM	457	419	190	50k6	55	63	110	198	100	250	280	40	24	100	560	620	450	520	660	1348	20	500	450	550	5	18	8
mSLg 280 M8-W7/UM	457	419	190	50k6	55	63	110	198	100	200	280	40	24	100	560	620	450	520	660	1348	20	500	450	550	5	18	8

FLANGE MOUNTED MOTORS – MOUNTING FORMS IM B5, IMV1, IMV3



Type of motor	D	D1	D2	E	E1	E2	E3	AC	AD	HB	L	LA	M	N	P	T	S	
																	∅	Quantity
mSKg 200 L4-W6/UM	40k6	44	50	82	168	80	140	450	355	570	1008	16.5	350	300	400	5	18	4
mSKg 225 M4-W6/UM	40k6	44	50	82	168	80	140	505	375	620	1053	18	400	350	450	5	18	8
mSKg 225 M8-W7/UM	50k6	55	63	110	198	100	200	505	375	620	1143	18	400	350	450	5	18	8
mSKg 250 M2-W7/UM	50k6	55	63	110	198	100	200	540	415	675	1238	19	500	450	550	5	18	8
mSKg 250 M8-W7/UM	50k6	55	63	110	198	100	200	540	415	675	1238	19	500	450	550	5	18	8
mSKg 280 S6-W7/UM	50k6	55	63	110	198	100	250	620	450	755	1348	20	500	450	550	5	18	8
mSKg 280 S8-W7/UM	50k6	55	63	110	198	100	250	620	450	755	1348	20	500	450	550	5	18	8
mSKg 280 M6-W7/UM	50k6	55	63	110	198	100	250	620	450	755	1348	20	500	450	550	5	18	8
mSKg 280 M8W7/UM	50k6	55	63	110	198	100	250	620	450	755	1348	20	500	450	550	5	18	8



SAFETY

GENERAL RULES AND PRESCRIPTIONS



Although the three-phase asynchronous motors illustrated in this catalogue comply perfectly with all the safety standards and regulations in force. However certain danger areas inevitably remain due to the presence of voltage and moving parts.

As per internationally-approved IEC 364 Standards, installation and maintenance operations must be performed exclusively by qualified personnel. Failure to respect the above can raise the risk of damage and injury. We recommend observing all the local standards and regulations in force and scrupulously respecting the instructions for motor operation provided.

ELECTRICAL CONNECTION



Before performing any operations on the motor, make sure that no voltage is present and that the motor cannot be accidentally switched on. This precaution also applies to any accessories installed for the motor such as anti-condensate devices, servo-assisted ventilation, etc...

Before connecting power supply to the motor, make sure that the mains voltage and frequency match the data listed on the motor's rating plate, paying particular attention to the accepted ranges of tolerance, while bearing in mind that the power line must be sized to the power of the user (CEI 64-8 Standards).

Always make the ground connection!

MOTOR INSTALLATION SITE



Vemat motors are designed for use in industrial surroundings as per harmonised EN 60034 Standards. Other installations (e.g. places where children are present), may require the installation of additional protections directly at the site of motor operation. Special attention must be paid to the surrounding conditions at the motor installation site, such as the degree of insulation necessary against penetration by water. **Vemat** motors come with IP55 Protection rating; for areas where greater protection is required, consult this catalogue's Accessories section or contact our Technical Office directly.

GUARANTEE

The guarantee provided by VEMAT SPA expires after one year from invoice date of our products. It only covers the replacement or repair free of charge of defective units or parts provided that VEMAT admit that said faults or defects are to be ascribed to manufacturing processes. The customer does not have to feel entitled to cancel or reduce the outstanding orders because of defective materials previously supplied. VEMAT will not be responsible

for the payment of any charges related to goods to be replaced or repaired under guarantee. Returns of materials will only be accepted if both back and forth transport charges will be covered by the customer. Our guarantee becomes completely null and void if units result altered or repaired. Our guarantee does not cover defects or faults which could be attributed to external factors, insufficient maintenance, overload, improper selection, mounting errors or shipping damages.

COMPLAINTS

Complaints for defective material must be effected in writing and within the legal terms or they will be considered null. In case of complaints the buyer is not anyhow entitled to stop or delay payments.

**Catalogue data is not binding.
This catalogue invalidates and replaces all previous issues.**



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