MS

SERIES THREE-PHASE ASYNCHRONOUS MOTOR

ALUMINUM HOUSING

IE2 IE3

CE

INTRODUCTION :

- Conform to the IEC standard
- Be made of selected quality materials, lastest design in entirety
- Good performance, low noise, little vibration, and safety and reliable operation
- Nice appearance, light weight
- Be maintained very conveniently, simple construction
- Be used for general drive

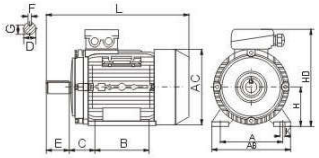
MOTOR FEATURES

- Utilise IP55 enclosures, other requests
- Multiple feet locations
- Aluminium frame, end shields and base
- High strength cable gland
- Shaft key and protector supplied
- Superior paint finish
- Motors made to heavy duty service factors
- Can be made with stainless steel shaft
- Motors made for continuous S1 duty
- Utilise Vacuum impregnated Class B or Class F insulation
- Others insulation on request
- High performance and efficiency

CUSTOMER BENEFITS

- Water dust and vermin resistant
- Quiet operation
- Electricity saving
- Easy installation (bolt on feet or brackets as required)
- Corrosion resistant
- Dependable
- Superior life
- Reliable in country, city or factory environments

IMB3



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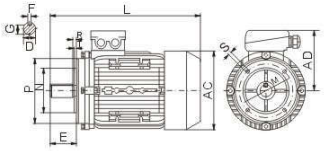

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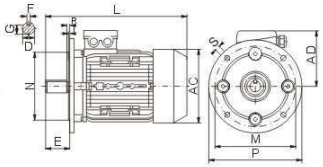

INSTALLATION SIZE AND OVERALL DIMENSION

Frame Size	Mounting Dimensions (mm)																					Frame Dimensions (mm)				
										IMB14						IMB5										
	A	B	C	D	E	F	G	H	K	M	N	P	R	S	T	M	N	P	R	S	T	AB	AC	AD	HD	L
56	90	71	36	9	20	3	7.2	56	5.8	65	50	80	0	M5	2.5	100	80	120	0	7	3	110	120	100	155	195
63	100	80	40	11	23	4	8.5	63	7	75	60	90	0	M5	2.5	115	95	140	0	10	3	125	130	100	165	215
71	112	90	45	14	30	5	11	71	7	85	70	105	0	M6	2.5	130	110	160	0	10	3.5	140	150	110	185	246
80	125	100	50	19	40	6	15.5	80	10	100	80	120	0	M6	3	165	130	200	0	12	3.5	160	170	135	215	285
90S	140	100	56	24	50	8	20	90	10	115	95	140	0	M8	3	165	130	200	0	12	3.5	178	185	137	226	335
90L	140	125	56	24	50	8	20	90	10	115	95	140	0	M8	3	165	130	200	0	12	3.5	178	185	137	226	335
100L	160	140	63	28	60	8	24	100	12	130	110	160	0	M8	3.5	215	180	250	0	15	4	206	206	150	250	376
112M	190	140	70	28	60	8	24	112	12	130	110	160	0	M8	3.5	215	180	250	0	15	4	222	228	170	285	400
132S	216	140	89	38	80	10	33	132	12	165	130	200	0	M10	4	265	230	300	0	15	4	257	267	190	325	460
132M	216	178	89	38	80	10	33	132	12	165	130	200	0	M10	4	265	230	300	0	15	4	257	267	190	325	500
160M	254	210	108	42	110	12	37	160	15	215	180	250	0	M12	4	300	250	350	0	15	5	320	330	255	420	615
160L	254	254	108	42	110	12	37	160	15	215	180	250	0	M12	4	300	250	350	0	15	5	320	330	255	420	675
180M	279	241	121	48	110	14	42.5	180	15	265	230	300	0	M15	4	300	250	350	0	19	5	355	380	280	455	700
180L	279	279	121	48	110	14	42.5	180	15	265	230	300	0	M15	4	300	250	350	0	19	5	355	380	280	455	740

IE2

IE2 TECHNICAL DATA-MS

SPEED 3000RPM 2-POLE 50HZ

Model	Rated Output		Rated Speed	Efficiency	Power factor	Rated current A			Rated Torque	Ts/Tn	Tmax/tn	Is/IN	Weight
	Kw	HP	rpm	η %	COSΦ	380	400	415	Num				kg
MS-801-2	0.75	1	2875	77.4	0.83	1.77	1.68	2.49	2.49	2.5	3	5.30	12
MS-802-2	1.1	1.5	2875	79.6	0.84	2.50	2.37	3.65	3.65	3.2	3.8	7.00	13.5
MS-90S-2	1.5	2	2890	81.3	0.84	3.32	3.16	4.96	4.96	2.7	3.5	7.10	17.5
MS-90L-2	2.2	3	2890	83.2	0.85	4.72	4.48	7.27	7.27	2.4	3	6.90	22
MS-100L-2	3	4	2891	84.6	0.87	6.17	5.86	9.91	9.91	3.2	4	8.00	29
MS-112M-2	4	5.5	2914	85.8	0.88	8.04	7.64	13.11	13.11	2.5	3	7.50	32
MS-132S1-2	5.5	7.5	2937	87.0	0.86	11.2	10.6	17.88	17.88	2.7	3.5	7.50	47.5
MS-132S2-2	7.5	10	2940	88.1	0.88	14.6	13.9	24.36	24.36	2.4	3.3	7.50	53
MS-160M1-2	11	15	2930	89.4	0.89	21.0	19.9	35.85	35.85	2.2	2.9	7.60	96
MS-160M2-2	15	20	2930	90.3	0.89	28.4	26.9	48.89	48.89	2.3	3	7.60	105
MS-160L-2	18.5	25	2937	90.9	0.89	34.7	33.0	60.15	60.15	2.3	3.1	7.40	115
MS-180M-2	22	30	2940	92.3	0.90	40.2	38.2	71.46	71.46	1.9	3	8.2	125

SPEED 1500RPM 4-POLE 50HZ

Model	Rated Output		Rated Speed	Efficiency	Power factor	Rated current A			Rated Torque	Ts/Tn	Tmax/tn	Is/IN	Weight
	Kw	HP	rpm	η %	COSΦ	380	400	415	Num				kg
MS-802-4	0.75	1	1400	79.6	0.76	1.88	1.78	1.72	5.12	2.4	2.9	5	14.5
MS-90S-4	1.1	1.5	1400	81.4	0.77	2.66	2.53	2.44	7.3	3	3.5	6	18.5
MS-90L-4	1.5	2	1445	82.8	0.77	3.57	3.39	3.27	9.91	3.2	3.8	6.8	21
MS-100L1-4	2.2	3	1440	84.3	0.81	4.88	4.64	4.47	14.6	3	3.5	7	31
MS-100L2-4	3	4	1440	85.5	0.82	6.50	6.18	5.95	19.9	2.6	3.3	7	37
MS-112M-4	4	5.5	1445	86.6	0.82	8.55	8.12	7.83	26.4	3.5	4	7.5	42
MS-132S-4	5.5	7.5	1455	87.7	0.83	11.5	10.9	10.5	36.1	2.2	2.8	6.4	52.5
MS-132M-4	7.5	10	1455	88.7	0.84	15.3	14.5	14.0	49.2	2.4	3	7	64
MS-160M-4	11	15	1460	89.8	0.84	22.1	21.0	20.3	71.9	2.5	2.9	6.9	99
MS-160L-4	15	20	1460	90.6	0.85	29.6	28.1	27.1	98.1	2.5	3	7.5	114
MS-180M-4	18.5	25	1470	91.2	0.86	35.8	34.0	32.8	120.2	2.6	3.1	7.8	120
MS-180M-4	22	30	1470	91.6	0.86	42.3	40.2	38.8	142.9	2.6	3.1	7.5	134

SPEED 1000RPM 6-POLE 50HZ

Model	Rated Output		Rated Speed	Efficiency	Power factor	Rated current A			Rated Torque	Ts/Tn	Tmax/tn	Is/IN	Weight
	Kw	HP	rpm	η %	COSΦ	380	400	415	Num				kg
MS-90S-6	0.75	1	934	75.9	0.72	2.08	1.98	1.90	7.67	2.2	2.4	4.5	18.5
MS-90L-6	1.1	1.5	945	78.1	0.72	2.97	2.82	2.72	11.1	2.4	2.6	4.5	21
MS-100L-6	1.5	2	945	79.8	0.75	3.80	3.61	3.48	15.2	1.8	2.2	4.2	28.5
MS-112M-6	2.2	3	960	81.8	0.76	5.37	5.10	4.92	21.9	2.3	2.8	4.5	33.5
MS-132S-6	3	4	964	83.3	0.76	7.19	6.83	6.58	29.7	1.8	2.4	4.5	44
MS-132M1-6	4	5.5	965	84.6	0.76	9.43	8.96	8.63	39.6	2.3	2.7	5	53
MS-132M2-6	5.5	7.5	965	86.0	0.77	12.6	12.0	11.5	54.4	1.9	2.8	5.5	63.5
MS-160M-6	7.5	10	970	87.2	0.78	16.7	15.9	15.3	73.8	2	3	6.5	100
MS-160L-6	11	15	970	88.7	0.78	24.1	22.9	22.1	108.3	2.4	3.3	7.5	113
MS-180L-6	15	20	975	89.7	0.81	31.4	29.8	28.7	146.9	2	2.7	6.4	126

IE3

IE3 TECHNICAL DATA-MS

SPEED 3000RPM 2-POLE 50HZ

Model	Rated Output		Rated Speed	Efficiency	Power factor	Rated current A			Rated Torque	Ts/Tn	Tmax/tn	Is/IN	Weight
	Kw	HP	rpm	η %	COSΦ	380	400	415	Num				kg
MS-801-2	0.8	1	2880	80.7	0.83	1.7	1.6	1.6	2.49	1.8	3.5	5.5	13.5
MS-802-2	1.1	1.5	2880	82.7	0.83	2.4	2.3	2.2	3.65	2.6	3.5	7.5	15
MS-90S-2	1.5	2	2895	84.2	0.83	3.3	3.1	3	4.95	2.6	3.5	7.1	19
MS-90L-2	2.2	3	2895	95.9	0.85	4.6	4.3	4.2	7.26	2	3	7	21.5
MS-100L-2	3	4	2895	87.1	0.88	5.9	5.6	5.4	9.9	2	3.2	8.6	30.5
MS-112M-2	4	5.5	2905	88.1	0.88	7.8	7.4	7.2	13.1	1.8	2.9	8	34
MS-132S1-2	5.5	7.5	2930	89.2	0.88	11	10	9.8	17.9	2.1	2.5	7.5	49.5
MS-132S2-2	7.5	10	2930	90.1	0.88	14	14	13	24.4	2	3.5	7.3	55
MS-160M1-2	11	15	2945	91.2	0.90	20	19	19	35.7	2.3	2.6	7.3	99
MS-160M2-2	15	20	2945	91.9	0.91	27	26	25	48.6	1.9	2.3	7	108
MS-160L-2	19	25	2940	92.4	0.89	34	32	31	60.1	1.6	2.5	7	118

SPEED 1500RPM 4-POLE 50HZ

Model	Rated Output		Rated Speed	Efficiency	Power factor	Rated current A			Rated Torque	Ts/Tn	Tmax/tn	Is/IN	Weight
	Kw	HP	rpm	η %	COSΦ	380	400	415	Num				kg
MS-802-4	0.75	1	1420	82.5	0.74	1.9	1.77	1.7	5.0	2.9	3.6	6	16
MS-90S-4	1.1	1.5	1445	84.1	0.74	2.7	2.55	2.46	7.3	2.7	3.8	6.5	20
MS-90L-4	1.5	2	1445	85.3	0.74	3.6	3.43	3.3	9.9	3.0	3.6	6.8	22.5
MS-100L1-4	2.2	3	1435	86.7	0.78	4.9	4.68	4.52	14.6	2.5	3.5		325
MS-100L2-4	3	4	1435	87.7	0.78	6.7	6.32	6.09	20.0	2.6	3.5	7.2	38.5
MS-112M-4	4	5.5	1440	88.6	0.80	8.6	8.14	7.84	26.5	2.3	3.2	7	44
MS-132S-4	5.5	7.5	1460	89.6	0.80	11.6	11.1	10.7	36.0	2.7	3.5	7.1	54.5
MS-132M-4	7.5	10	1460	90.4	0.82	15.3	14.6	14	49.1	2.7	3.8	7.2	66
MS-160M-4	11	15	1465	91.4	0.82	22.3	21.2	20.4	71.7	1.9	2.3	6.8	102
MS-160L-4	15	20	1465	92.1	0.82	30.1	28.6	27.6	97.8	1.8	2.4	6.8	117

SPEED 1000RPM 6-POLE 50HZ

Model	Rated Output		Rated Speed	Efficiency	Power factor	Rated current A			Rated Torque	Ts/Tn	Tmax/tn	Is/IN	Weight
	Kw	HP	rpm	η %	COSΦ	380	400	415	Num				kg
MS-90S-6	0.75	1	935	78.90	0.61	2.36	2.2	2.2	7.86	2.5	3.3	4.5	20
MS-90L-6	1.1	1.5	945	81.00	0.69	2.99	2.8	2.7	11.1	1.7	3.3	4.4	22.5
MS-100L-6	1.5	2	949	82.50	0.69	4	3.8	3.7	15.1	2.3	3	5	30
MS-112M-6	2.2	3	955	84.30	0.71	5.58	5.3	5.1	22	2.6	3	5.5	35.5
MS-132S-6	3	4	968	85.60	0.71	7.48	7.1	6.9	29.6	2	3.1	5.5	46
MS-132M1-6	4	5.5	968	86.80	0.71	9.85	9.4	9	39.5	2.1	2.6	5.7	55
MS-132M2-6	5.5	7.5	968	88.00	0.75	12.6	12	12	54.3	1.7	2.6	6	65.5
MS-160M-6	7.5	10	970	89.10	0.77	16.6	16	15	73.8	1.7	2.5	5.9	103
MS-160L-6	11	15	970	90.30	0.79	23.4	22	21	108.3	1.5	2.4	6	116