



Specialised Air Motors and Transmission

MS

**SERIES THREE-PHASE
ASYNCHRONOUS
MOTOR**

ALUMINUM HOUSING

IE2 IE3



INTRODUCE :

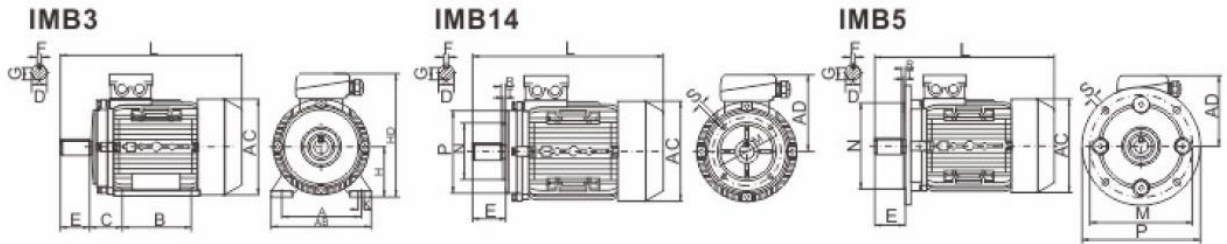
- Conform to the IEC standard
- Be made of selected quality materials, latest design in entirety
- Good performance, low noise, little vibration, and safety and reliable operation
- Nice appearance, light weight
- Be maintained very conveniently, simple construction
- Be used for general drive

MOTOR FEATURES

- Utilise IP55 enclosures, others request
- 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



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	110	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	135	185	246
80	125	100	50	19	40	6	16	80	10	100	80	120	0	M6	3	165	130	200	0	12	3.5	160	170	137	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	150	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	170	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	190	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	255	325	500
160M	254	210	108	43	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	280	420	675

IE2 TECHNICAL DATA-M5

SPEED 3000RPM 2-POLE 50HZ

Model	Rated Output		Rated Current (A)			Rated Current (A)			Rated Current (A)			Rated Speed (rpm)	Efficiency η (%)			Power Factor cos ϕ	Rated Torque (Nm)	Ts/Tn	Tmax/Tn	Is/In	Weight (kg)
	KW	HP	220V	380V	660V	230V	400V	690V	240V	415V	720V		100%	75%	50%						
MS801-2	0.75	1	3.06	1.77	1.02	2.93	1.69	0.98	2.81	1.62	0.94	2875	77.4	77.2	74.7	0.83	2.49	2.5	3	5.30	8.2
MS802-2	1.1	1.5	4.37	2.53	1.46	4.18	2.40	1.39	4.01	2.32	1.34	2875	79.6	79.7	78.9	0.83	3.65	3.2	3.8	7.00	9.2
MS90S-2	1.5	2	5.76	3.34	1.92	5.51	3.17	1.84	5.28	3.06	1.76	2890	81.3	81.4	80.7	0.84	4.96	2.7	3.5	7.10	13.1
MS90L-2	2.2	3	8.16	4.73	2.72	7.81	4.49	2.60	7.48	4.33	2.49	2890	83.2	82.9	82.2	0.85	7.27	2.4	3	6.90	16
MS100L-2	3	4	10.7	6.19	3.57	10.2	5.88	3.41	9.81	5.67	3.27	2891	84.6	84.5	82.8	0.87	9.91	3.2	4	8.00	22.3
MS112M-2	4	5.5	13.9	8.05	4.63	13.3	7.65	4.43	12.7	7.37	4.25	2914	85.8	86.1	85.4	0.88	13.11	2.5	3	7.50	30.4
MS132S1-2	5.5	7.5	18.9	10.9	6.28	18.0	10.4	6.01	17.3	10.0	5.76	2937	87.0	86.7	84.8	0.88	17.88	2.7	3.5	7.50	46
MS132S2-2	7.5	10	25.1	14.5	8.37	24.0	13.8	8.00	23.0	13.3	7.67	2940	88.1	88.4	87.8	0.89	24.36	2.4	3.3	7.50	51.2
MS160M1-2	11	15	36.3	21.0	12.1	34.7	20.0	11.6	33.3	19.2	11.1	2930	89.4	89.1	87.7	0.89	35.85	2.2	2.9	7.60	90
MS160M2-2	15	20	49.0	28.4	16.3	46.9	26.9	15.6	44.9	26.0	15.0	2930	90.3	90.5	89.7	0.89	48.89	2.3	3	7.60	100
MS160L-2	18.5	25	60.0	34.7	20.0	57.4	33.0	19.1	55.0	31.8	18.3	2937	90.9	91.0	90.0	0.89	60.15	2.3	3.1	7.40	111

SPEED 1500RPM 4-POLE 50HZ

Model	Rated Output		Rated Current (A)			Rated Current (A)			Rated Current (A)			Rated Speed (rpm)	Efficiency η (%)			Power Factor cos ϕ	Rated Torque (Nm)	Ts/Tn	Tmax/Tn	Is/In	Weight (kg)
	KW	HP	220V	380V	660V	230V	400V	690V	240V	415V	720V		100%	75%	50%						
MS802-4	0.75	1	3.30	1.91	1.10	3.15	1.81	1.05	3.02	1.75	1.01	1400	79.6	79.3	78.4	0.75	5.12	2.4	2.9	5	11
MS90S-4	1.1	1.5	4.73	2.74	1.58	4.52	2.60	1.51	4.33	2.51	1.44	1400	81.4	81.1	77.6	0.75	7.3	3	3.5	6	13.1
MS90L-4	1.5	2	6.34	3.67	2.11	6.06	3.49	2.02	5.81	3.36	1.94	1445	82.8	82.5	77.5	0.75	9.91	3.2	3.8	6.8	16.3
MS100L1-4	2.2	3	8.46	4.90	2.82	8.09	4.65	2.70	7.75	4.48	2.58	1440	84.3	84.4	83.7	0.81	14.6	3	3.5	7	23.5
MS100L2-4	3	4	11.2	6.50	3.74	10.7	6.18	3.58	10.3	5.95	3.43	1440	85.5	85.3	83.9	0.82	19.9	2.6	3.3	7	26
MS112M-4	4	5.5	14.8	8.56	4.93	14.1	8.13	4.71	13.6	7.84	4.52	1445	86.6	86.9	86.9	0.82	26.4	3.5	4	7.5	33.1
MS132S-4	5.5	7.5	20.1	11.6	6.69	19.2	11.0	6.40	18.4	10.6	6.13	1455	87.7	87.4	86.9	0.82	36.1	2.2	2.8	6.4	46.1
MS132M-4	7.5	10	26.7	15.5	8.91	25.6	14.7	8.52	24.5	14.2	8.17	1455	88.7	88.5	88.3	0.83	49.2	2.4	3	7	54.3
MS160M-4	11	15	37.8	21.9	12.61	36.2	20.8	12.06	34.7	20.0	11.56	1460	89.8	90.1	89.1	0.85	71.9	2.5	2.9	6.9	108
MS160L-4	15	20	50.5	29.2	16.84	48.3	27.8	16.11	46.3	26.8	15.44	1460	90.6	90.8	89.9	0.86	98.1	2.5	3	7.5	114

SPEED 1000RPM 6-POLE 50HZ

Model	Rated Output		Rated Current (A)			Rated Current (A)			Rated Current (A)			Rated Speed (rpm)	Efficiency η (%)			Power Factor cos ϕ	Rated Torque (Nm)	Ts/Tn	Tmax/Tn	Is/In	Weight (kg)
	KW	HP	220V	380V	660V	230V	400V	690V	240V	415V	720V		100%	75%	50%						
MS90S-6	0.75	1	3.60	2.09	1.20	3.45	1.98	1.15	3.30	1.91	1.10	934	75.9	76.1	75.1	0.72	7.67	2.2	2.4	4.5	13
MS90L-6	1.1	1.5	5.06	2.93	1.69	4.84	2.78	1.61	4.64	2.68	1.55	945	78.1	77.9	77.8	0.73	11.1	2.4	2.6	4.5	16.5
MS100L-6	1.5	2	6.67	3.86	2.22	6.38	3.67	2.13	6.11	3.53	2.04	945	79.8	80.1	78.5	0.74	15.2	1.8	2.2	4.2	23.2
MS112M-6	2.2	3	9.54	5.52	3.18	9.12	5.25	3.04	8.74	5.06	2.91	960	81.8	81.9	81.5	0.74	21.9	2.3	2.8	4.5	32
MS132S-6	3	4	12.8	7.39	4.26	12.2	7.02	4.07	11.7	6.77	3.90	964	83.3	83.6	82.3	0.74	29.7	1.8	2.4	4.5	42
MS132M1-6	4	5.5	16.8	9.71	5.59	16.0	9.22	5.35	15.4	8.89	5.12	965	84.6	84.5	82.4	0.74	39.6	2.3	2.7	5	51
MS132M2-6	5.5	7.5	22.4	13.0	7.46	21.4	12.3	7.13	20.5	11.9	6.84	965	86.0	85.9	84.7	0.75	54.4	1.9	2.8	5.5	61
MS160M-6	7.5	10	28.9	16.8	9.65	27.7	15.9	9.23	26.5	15.3	8.84	970	87.2	87	84.9	0.78	73.8	2	3	6.5	120
MS160L-6	11	15	41.2	23.9	13.7	39.4	22.7	13.1	37.8	21.8	12.6	970	88.7	88.4	86.1	0.79	108.3	2.4	3.3	7.5	133

IE3 TECHNICAL DATA - MS

SPEED 3000RPM 2-POLE 50HZ

Model	Rated Output		Rated Speed (rpm)	Efficiency η (%)	Power Factor $\cos\phi$	Current (A)			Rated Torque (Nm)	Ts/Tn	Tmax/Tn	Ist/In	Weight (kg)
	KW	HP				380V	400V	415V					
MS801-2	0.8	1	2880	80.7	0.83	1.7	1.6	2.49	1.8	3.5	3.5	5.5	9.5
MS802-2	1.1	1.5	2880	82.7	0.83	2.4	2.3	3.65	2.6	3.5	3.5	7.5	10.5
MS90S-2	1.5	2	2895	84.2	0.83	3.3	3.1	4.95	2.6	3.5	3.5	7.1	15
MS90L-2	2.2	3	2895	85.9	0.85	4.6	4.3	7.26	2.0	3.0	3.0	7.0	19
MS100L-2	3	4	2895	87.1	0.88	5.9	5.6	9.9	2.0	3.2	3.2	8.6	25
MS112M-2	4	5.5	2905	88.1	0.88	7.8	7.4	13.1	1.8	2.9	2.9	8.0	34
MS132S1-2	5.5	7.5	2930	89.2	0.88	11	10	17.9	2.1	2.5	2.5	7.5	49.5
MS132S2-2	7.5	10	2930	90.1	0.88	14	14	24.4	2.0	3.5	3.5	7.3	55
MS160M1-2	11	15	2945	91.2	0.9	20	19	35.7	2.3	2.6	2.6	7.3	99
MS160M2-2	15	20	2945	91.9	0.91	27	26	48.6	1.9	2.3	2.3	7.0	108
MS160L-2	19	25	2940	92.4	0.89	34	32	60.1	1.6	2.5	2.5	7.0	118

SPEED 1500RPM 4-POLE 50HZ

Model	Rated Output		Rated Speed (rpm)	Efficiency η (%)	Power Factor $\cos\phi$	Current (A)			Rated Torque (Nm)	Ts/Tn	Tmax/Tn	Ist/In	Weight (kg)
	KW	HP				380V	400V	415V					
MS802-4	0.75	1	1420	82.50	0.74	1.90	1.77	1.7	5.0	2.9	3.6	6.0	13
MS90S-4	1.1	1.5	1445	84.10	0.74	2.70	2.55	2.46	7.3	2.7	3.8	6.5	14.5
MS90L-4	1.5	2	1445	85.30	0.74	3.60	3.43	3.3	9.9	3.0	3.6	6.8	18.5
MS100L1-4	2.2	3	1435	86.70	0.78	4.90	4.68	4.52	14.6	2.5	3.5		27
MS100L2-4	3	4	1435	87.7	0.78	6.7	6.32	6.09	20	2.6	3.5	7.2	30
MS112M-4	4	5.5	1440	88.6	0.8	8.6	8.14	7.84	26.5	2.3	3.2	7	38
MS132S-4	5.5	7.5	1460	89.6	0.8	11.6	11.1	10.7	36	2.7	3.5	7.1	50
MS132M-4	7.5	10	1460	90.4	0.82	15.3	14.6	14	49.1	2.7	3.8	7.2	58
MS160M-4	11	15	1465	91.4	0.82	22.3	21.2	20.4	71.7	1.9	2.3	6.8	111
MS160L-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 (rpm)	Efficiency η (%)	Power Factor $\cos\phi$	Current (A)			Rated Torque Nm	Ts/Tn	Tmax/Tn	Ist/In	Weight (kg)
	KW	HP				380V	400V	415V					
MS90S-6	0.75	1	935	78.9	0.61	2.36	2.2	2.2	7.86	2.5	3.3	4.5	15
MS90L-6	1.1	1.5	945	81	0.69	2.99	2.8	2.7	11.1	1.7	3.3	4.4	20
MS100L-6	1.5	2	949	82.5	0.69	4	3.8	3.7	15.1	2.3	3	5	27
MS112M-6	2.2	3	955	84.3	0.71	5.58	5.3	5.1	22	2.6	3	5.5	35.5
MS132S-6	3	4	968	85.6	0.71	7.48	7.1	6.9	29.6	2	3.1	5.5	46
MS132M1-6	4	5.5	968	86.8	0.71	9.85	9.4	9	39.5	2.1	2.6	5.7	55
MS132M2-6	5.5	7.5	968	88	0.75	12.6	12	12	54.3	1.7	2.6	6	65.5
MS160M-6	7.5	10	970	89.1	0.77	16.6	16	15	73.8	1.7	2.5	5.9	123
MS160L-6	11	15	970	90.3	0.79	23.4	22	21	108.3	1.5	2.4	6	138