



MOTOLEGY

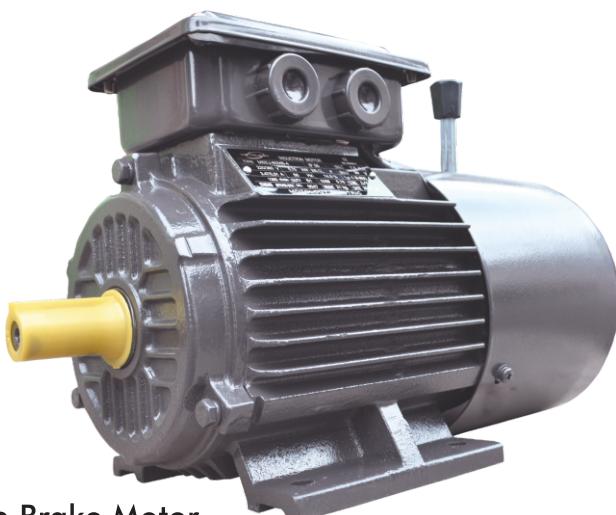
ELECTRIC MOTORS



• Single Phase Motor



• Three Phase Motor



• Brake Motor

IE1

INDUCTION MOTORS

ME
**SERIES THREE-PHASE
ASYNCHRONOUS
MOTOR**
CAST IRON HOUSING
IE1



INTRODUCTION

The three phase motors conforms to IEC standards. They are reliable motors with excellent power factors, efficiencies and starting torques. These motors are widely used in the agricultural, pumping, manufacturing and building services industries.

BEARING SIZE

Frame Size	Poles	Drive End	Non - Drive End
56	2 - 8	6201ZZ	6201ZZ
63	2 - 8	6201ZZ	6201ZZ
71	2 - 8	6202ZZ	6202ZZ
80	2 - 8	6204ZZ	6204ZZ
90	2 - 8	6205ZZ	6205ZZ
100	2 - 8	6206ZZ	6206ZZ
112	2 - 8	6306ZZ	6206ZZ
132	2 - 8	6308ZZ	6208ZZ
160	2 - 8	6309ZZ	6209ZZ
180	2 - 8	6311	6211
200	2 - 8	6312	6212

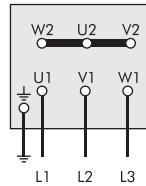
Frame Size	Poles	Drive End	Non - Drive End
225	2	6312	6312
	4 - 8	6313	6312
250	2	6313	6313
	4 - 8	6314	6313
280	2	6314	6314
	4 - 8	6317	6314
315	2	6317	6317
	4 - 8	NU 319	6319
355	2	6319	6319
	4 - 8	NU 322	6322
400	2	6326	6326
	4 - 8	NU 326	6326

• MOTOLEGY Electric Motors are equipped with bearings from excellent manufacturers.

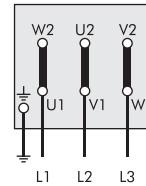
MOTOR FEATURES

- IP 55 enclosures, others upon request
- Class F insulation, Class H available on request
- 380V-420V/440V-480V, 50/60Hz windings
- High quality magnet wire
- Vacuum varnish impregnation for tropic proof insulation
- Continuous S1 operation
- Industrial type service factors
- Heavy duty ball bearings
- Strong cast iron housing
- Balanced rotors

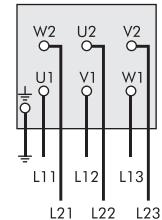
CONNECTION DIAGRAMS



Star connection



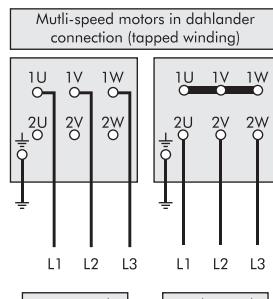
Delta connection



Connection to
Star-delta starter

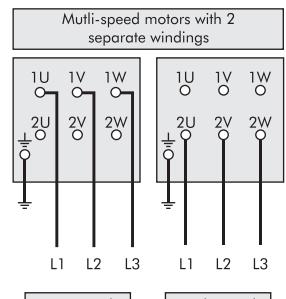
CUSTOMER BENEFITS

- Water dust and vermin resistant
- Low noise
- Corrosion resistant
- Suitable for most environments
- Very low vibration
- Very low power consumption
- Reliable and longer motor life span



Low speed

High speed



Low speed

High speed

MOUNTING ARRANGEMENTS

Fundamental arrangement	B3					
Mounting arrangement	B3	B6	B7	B8	V5	V6
Diagram						
Range of Manufacture (Frame Size)	63 - 355					
Fundamental arrangement	B5			B35		
Mounting arrangement	B5	V1	V3	B35	V15	V36
Diagram						
Range of Manufacture (Frame Size)	63 - 280	63 - 355	63 - 160	63 - 355	63 - 160	
Fundamental arrangement	B14					
Mounting arrangement	B14	B34	V18	V58	V19	V69
Diagram						
Range of Manufacture (Frame Size)	63 - 132					



MOTOLEGY ELECTRIC MOTORS

TECHNICAL DATA - 2 POLE (3000 RPM) ASYNCHRONOUS SPEED 50 HZ

MODEL	Rated Output		Rated Speed (rpm)	IFL 380V (Amp)	EFF %	Power Factor	Rated Torque (Nm)	TS TN	TMAX TN	IS IN	Net Weight (kg)
	kW	HP									
ME80A-2	0.75	1	2890	1.90	72.1	0.83	2.5	2.2	2.2	6.0	16
ME80B-2	1.1	1.5	2900	2.65	75.0	0.84	3.7	2.2	2.2	7.0	17
ME90S-2	1.5	2	2900	3.51	77.2	0.84	5	2.2	2.2	7.0	21
ME90L-2	2.2	3	2930	4.93	79.7	0.85	7.4	2.2	2.2	7.0	25
ME100L-2	3	4	2930	6.43	81.5	0.87	10	2.2	2.2	7.0	33
ME112M-2	4	5.5	2930	8.31	83.1	0.88	13.3	2.2	2.2	8.0	42
ME132SA-2	5.5	7.5	2940	11.21	84.7	0.88	18.1	2.2	2.2	8.0	64
ME132SB-2	7.5	10	2950	15.06	86.0	0.88	24.5	2.2	2.2	8.0	68
ME160MA-2	11	15	2950	21.44	87.6	0.89	35.8	2.0	2.2	8.0	106
ME160MB-2	15	20	2970	28.87	88.7	0.89	48.8	2.0	2.2	8.0	107
ME160L-2	18.5	25	2970	34.97	89.3	0.90	60.4	2.0	2.2	8.0	130
ME180M-2	22	30	2970	41.31	89.3	0.90	71.4	2.0	2.2	8.0	152
ME200LA-2	30	40	2970	55.84	90.7	0.90	97.2	2.0	2.2	8.0	220
ME200LB-2	37	50	2980	68.49	91.2	0.90	119.8	2.0	2.2	8.0	230
ME225M-2	45	60	2980	82.84	91.7	0.90	144.8	1.8	2.2	8.0	280
ME250M-2	55	75	2980	100.81	92.1	0.90	177	1.8	2.2	7.0	366
ME280S-2	75	100	2980	136.58	92.7	0.90	241.3	1.8	2.2	7.0	475
ME280M-2	90	125	2980	161.57	93.0	0.91	289.5	1.8	2.2	7.0	530
ME280MB-2	110	150	2980	196.85	93.3	0.91	353.9	1.8	2.2	7.0	600
ME315S-2	110	150	2980	196.85	93.3	0.91	353.9	1.8	2.2	6.8	850
ME315M-2	132	175	2980	235.71	93.5	0.91	423.2	1.8	2.2	6.8	930
ME315LA-2	160	220	2980	281.70	93.8	0.92	513	1.8	2.2	6.8	990
ME315LB-2	200	270	2980	351.37	94.0	0.92	641.2	1.8	2.2	6.8	1030
ME355M-2	250	340	2980	439.22	94.0	0.92	801.5	1.6	2.2	7.0	1650
ME355L-2	315	430	2980	545.29	95.4	0.92	1010	1.6	2.2	7.0	1750

TECHNICAL DATA - 4 POLE (1500 RPM) ASYNCHRONOUS SPEED 50 HZ

MODEL	Rated Output		Rated Speed (rpm)	IFL 380V (Amp)	EFF %	Power Factor	Rated Torque (Nm)	TS TN	TMAX TN	IS IN	Net Weight (kg)
	kW	HP									
ME80A-4	0.55	0.75	1400	1.57	71.0	0.75	3.8	2.2	2.2	5.5	16
ME80B-4	0.75	1	1400	2.08	72.1	0.76	5.2	2.2	2.2	5.5	17
ME90S-4	1.1	1.5	1400	2.89	75.0	0.77	7.5	2.2	2.2	6.0	22
ME90L-4	1.5	2	1400	3.74	77.2	0.79	10.2	2.2	2.2	6.0	26
ME100LA-4	2.2	3	1420	5.18	79.7	0.81	14.8	2.2	2.2	6.0	33
ME100LB-4	3	4	1420	6.82	81.5	0.82	20.2	2.2	2.2	7.0	36
ME112M-4	4	5.5	1440	8.92	83.1	0.82	26.5	2.2	2.2	7.0	46
ME132S-4	5.5	7.5	1440	11.89	84.7	0.83	36.5	2.2	2.2	7.0	64
ME132M-4	7.5	10	1440	15.77	86.0	0.84	49.8	2.0	2.2	7.0	77
ME160M-4	11	15	1460	22.71	87.6	0.84	72	2.0	2.2	7.0	106
ME160L-4	15	20	1460	30.23	88.7	0.85	98.2	2.0	2.2	7.0	126
ME180M-4	18.5	25	1470	36.60	89.3	0.86	120.2	2.2	2.2	7.5	154
ME180L-4	22	30	1470	43.23	89.9	0.86	143	2.2	2.2	7.5	175
ME200L-4	30	40	1470	58.43	90.7	0.86	195	2.2	2.2	7.5	235
ME225S-4	37	50	1480	70.85	91.2	0.87	238.9	2.2	2.2	7.5	295
ME225M-4	45	60	1480	85.70	91.7	0.87	290.5	2.2	2.2	7.5	306
ME250M-4	55	75	1480	104.29	92.1	0.87	355.1	2.2	2.2	7.0	375
ME280S-4	75	100	1480	141.29	92.7	0.87	483.9	2.2	2.2	7.0	533
ME280M-4	90	125	1480	169.00	93.0	0.87	580.7	2.2	2.2	7.0	575
ME280MB-4	110	150	1490	203.56	93.3	0.88	709.8	2.1	2.2	6.9	685
ME315S-4	110	150	1490	203.56	93.3	0.88	709.8	2.1	2.2	6.9	820
ME315M-4	132	175	1490	243.74	93.5	0.88	851.8	2.1	2.2	6.9	960
ME315LA-4	160	220	1490	291.19	93.8	0.89	1032	2.1	2.2	6.9	1000
ME315LB-4	200	270	1490	363.22	94.0	0.89	1290	2.3	2.2	6.9	1080
ME355M-4	250	340	1485	448.98	94.0	0.90	1603	2.3	2.2	6.8	1580
ME355L-4	315	430	1485	558.58	95.2	0.90	2020	2.2	2.2	6.9	1730

■ TS = Starting Torque ■ TN = Rated Torque ■ Tmax = Maximum Torque ■ IS = Starting Current ■ IN = Rated Current

TECHNICAL DATA - 6 POLE (1000 RPM) ASYNCHRONOUS SPEED 50 HZ

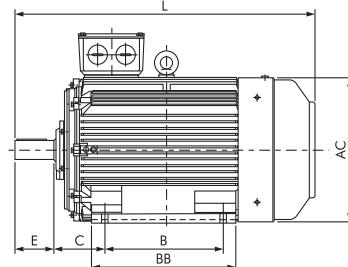
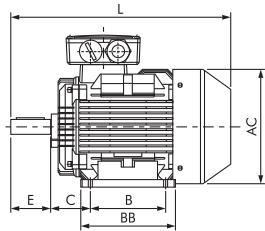
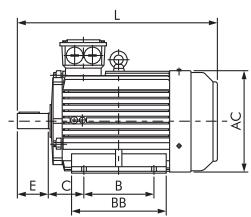
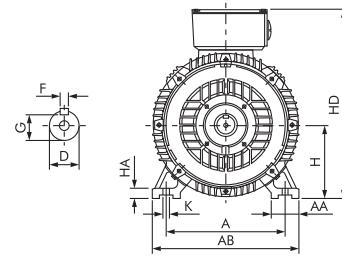
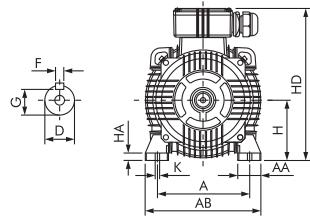
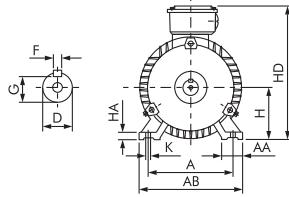
MODEL	Rated Output		Rated Speed (rpm)	IFL 380V (Amp)	EFF %	Power Factor	Rated Torque (Nm)	TS TN	TMAX TN	IS IN	Net Weight (kg)
	kW	HP									
ME80A-6	0.37	0.5	900	1.30	62.0	0.70	4	2.0	2.2	5.0	17
ME80B-6	0.55	0.75	900	1.79	65.0	0.72	5.9	2.0	2.2	5.0	19
ME90S-6	0.75	1	910	2.26	70.0	0.72	7.9	2.0	2.2	5.5	22
ME90L-6	1.1	1.5	910	3.14	72.9	0.73	11.5	2.0	2.2	5.5	24
ME100L-6	1.5	2	940	4.04	75.2	0.75	15.6	2.0	2.2	5.5	31
ME112M-6	2.2	3	940	5.66	77.7	0.76	22.4	2.0	2.2	6.5	42
ME132S-6	3	4	960	7.52	79.7	0.76	29.9	2.0	2.2	6.5	60
ME132MA-6	4	5.5	960	9.82	81.4	0.76	39.8	2.0	2.2	6.5	70
ME132MB-6	5.5	7.5	960	13.06	83.1	0.77	54.7	2.0	2.0	6.5	80
ME160M-6	7.5	10	970	17.47	84.7	0.77	73.9	2.0	2.0	6.5	114
ME160L-6	11	15	970	24.80	86.4	0.78	108.3	2.0	2.0	6.5	121
ME180L-6	15	20	970	32.08	87.7	0.81	147.7	2.0	2.0	7.0	162
ME200LA-6	18.5	25	970	39.17	88.6	0.81	182.2	2.0	2.0	7.0	209
ME200LB-6	22	30	970	45.15	89.2	0.83	216.7	2.0	2.0	7.0	226
ME225M-6	30	40	980	60.16	90.2	0.84	292.5	2.0	2.1	7.0	273
ME250M-6	37	50	980	71.99	90.8	0.86	360.7	2.0	2.1	7.0	360
ME280S-6	45	60	980	86.98	91.4	0.86	438.7	2.0	2.0	7.0	494
ME280M-6	55	75	980	105.73	91.9	0.86	536.2	2.0	2.0	7.0	517
ME315S-6	75	100	990	143.09	92.6	0.86	723.8	2.0	2.0	7.0	770
ME315M-6	90	125	990	171.15	92.9	0.86	868.6	2.0	2.0	7.0	840
ME315LA-6	110	150	990	208.29	93.3	0.86	1062	2.0	2.0	6.7	990
ME315LB-6	132	175	990	246.55	93.5	0.87	1274	2.0	2.0	6.7	1040
ME355MA-6	160	220	990	294.50	93.8	0.88	1544	1.9	2.0	6.7	1470
ME355MB-6	200	270	990	367.35	94.0	0.88	1930	1.9	2.0	6.7	1640
ME355L-6	250	340	990	459.18	94.0	0.88	2413	1.9	2.0	6.7	1740

TECHNICAL DATA - 8 POLE (750 RPM) ASYNCHRONOUS SPEED 50 HZ

MODEL	Rated Output		Rated Speed (rpm)	IFL 380V (Amp)	EFF %	Power Factor	Rated Torque (Nm)	TS TN	TMAX TN	IS IN	Net Weight (kg)
	kW	HP									
ME80A-8	0.18	0.25	680	0.88	51.0	0.61	2.8	1.8	1.9	3.3	17
ME90S-8	0.37	0.5	680	1.49	62.0	0.61	5.4	1.8	1.9	4.0	23
ME90L-8	0.55	0.75	700	2.17	63.0	0.61	8	1.8	2.0	4.0	25
ME100LA-8	0.75	1	700	2.40	71.0	0.67	10.4	1.8	2.0	4.0	33
ME100LB-8	1.1	1.5	700	3.32	73.0	0.69	15.2	1.8	2.0	5.0	38
ME112M-8	1.5	2	700	4.40	75.0	0.69	20.8	1.8	2.0	5.0	50
ME132S-8	2.2	3	710	6.04	78.0	0.71	29.6	2.0	2.0	6.0	60
ME132M-8	3	4	710	7.90	79.0	0.73	40.4	2.0	2.0	6.0	76
ME160MA-8	4	5.5	720	10.28	81.0	0.73	53.1	2.0	2.0	6.0	112
ME160MB-8	5.5	7.5	720	13.61	83.0	0.74	73	2.0	2.0	6.0	113
ME160L-8	7.5	10	720	17.77	85.5	0.75	99.5	2.0	2.0	6.0	140
ME180L-8	11	15	730	25.13	87.5	0.76	144	2.0	2.0	6.5	166
ME200L-8	15	20	730	34.08	88.0	0.76	196.3	2.0	2.0	6.5	214
ME225S-8	18.5	25	740	41.09	90.0	0.76	242.1	1.9	2.0	6.6	255
ME225M-8	22	30	740	47.35	90.5	0.78	284	1.9	2.0	6.6	284
ME250M-8	30	40	740	63.40	91.0	0.79	387.3	1.9	2.0	6.6	380
ME280S-8	37	50	740	77.77	91.5	0.79	477.7	1.9	2.0	6.6	496
ME280M-8	45	60	740	94.07	92.0	0.79	581	1.9	2.0	6.6	520
ME315S-8	55	75	740	111.17	92.8	0.81	710	1.8	2.0	6.6	900
ME315M-8	75	100	740	151.27	93.0	0.81	968	1.8	2.0	6.6	1000
ME315LA-8	90	125	740	177.78	93.8	0.82	1162	1.8	2.0	6.6	1060
ME315LB-8	110	150	740	216.82	94.0	0.82	1420	1.8	2.0	6.4	1130
ME355MA-8	132	175	740	261.02	93.7	0.82	1704	1.8	2.0	6.4	1500
ME355MB-8	160	220	740	314.71	94.2	0.82	2066	1.8	2.0	6.4	1600
ME355L-8	200	270	740	387.41	94.5	0.83	2582	1.8	2.0	6.4	1700

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DIMENSIONS FOOT MOUNT B3



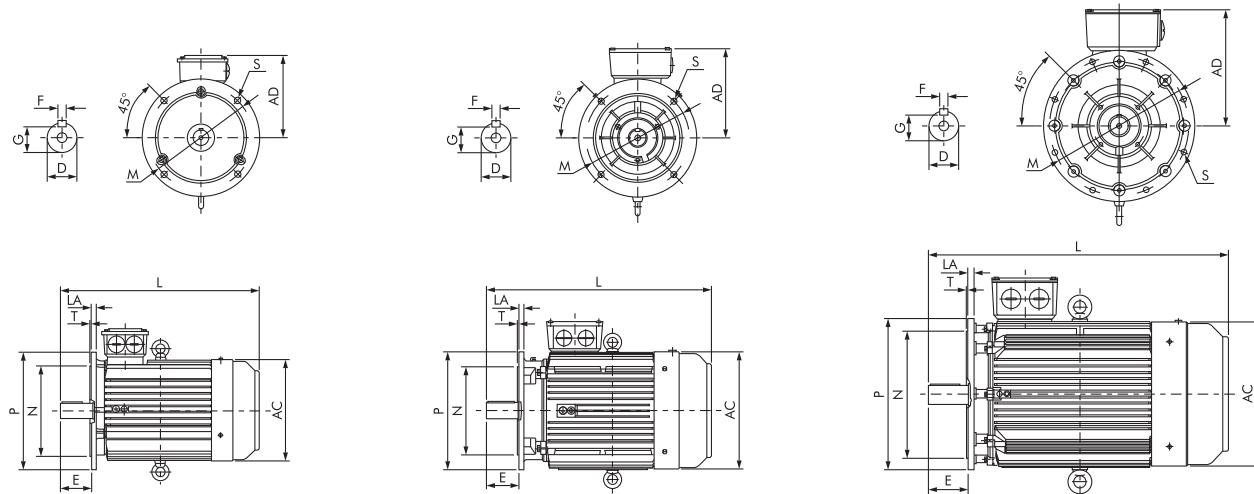
ME 80~132

ME 160~280

ME 315~355

Frame Size	A	AA	AB	AC	B	BB	C	D	E	F	G	H	HA	HD	K	L
80	125	34	165	175	100	130	50	19	40	6	15.5	80	10	220	10	295
90S	140	36	180	195	100	135	56	24	50	8	20	90	12.5	250	10	320
90L	140	36	180	195	125	160	56	24	50	8	20	90	12.5	250	10	345
100L	160	40	205	215	140	182	63	28	60	8	24	100	14	270	12	385
112M	190	45	230	240	140	195	70	28	60	8	24	112	14	300	12	400
132S	216	52	270	275	140	205	89	38	80	10	33	132	16	345	12	470
132M	216	52	270	275	178	245	89	38	80	10	33	132	16	345	12	510
160M	254	65	315	330	210	260	108	42	110	12	37	160	19	400	15	605
160L	254	65	315	330	254	305	108	42	110	12	37	160	19	400	15	660
180M	279	74	355	380	241	297	121	48	110	14	42.5	180	22	440	15	690
180L	279	74	355	380	279	327	121	48	110	14	42.5	180	22	440	15	725
200L	318	75	395	420	305	370	133	55	110	16	49	200	25	500	19	765
225S(4-8P)	356	75	436	465	286	355	149	60	140	18	53	225	28	555	19	810
225M(2P)	356	75	436	465	311	380	149	55	110	16	49	225	28	550	19	805
225M(4-8P)	356	75	436	465	311	380	149	60	140	18	53	225	28	550	19	835
250M(2P)	406	88	495	520	349	440	168	60	140	18	53	250	33	615	24	910
250M(4-8P)	406	88	495	520	349	440	168	65	140	18	58	250	33	615	24	910
280S(2P)	457	103	550	570	368	495	190	65	140	18	58	280	35	660	24	980
280S(4-8P)	457	103	550	570	368	495	190	75	140	20	67.5	280	35	660	24	980
280M(2P)	457	103	550	570	419	535	190	65	140	18	58	280	35	660	24	1030
280M(4-8P)	457	103	550	570	419	535	190	75	140	20	67.5	280	35	660	24	1030
315S(2P)	508	120	630	650	406	515	216	65	140	18	58	315	45	825	28	1180
315S(4-8P)	508	120	630	650	406	515	216	80	170	22	71	315	45	825	28	1275
315M(2P)	508	120	630	650	457	625	216	65	140	18	58	315	45	830	28	1290
315M(4-8P)	508	120	630	650	457	625	216	80	170	22	71	315	45	830	28	1320
315L(2P)	508	120	630	650	508	625	216	65	140	18	58	315	45	830	28	1290
315L(4-8P)	508	120	630	650	508	625	216	80	170	22	71	315	45	830	28	1320
355M(2P)	610	125	735	735	560	775	254	75	140	20	67.5	355	49	1010	28	1510
355M(4-8P)	610	125	735	735	560	775	254	95	170	25	86	355	49	1010	28	1540
355L(2P)	610	125	735	735	630	775	254	75	140	20	67.5	355	49	1010	28	1510
355L(4-8P)	610	125	735	735	630	775	254	95	170	25	86	355	49	1010	28	1540

DIMENSIONS FLANGE MOUNT B5



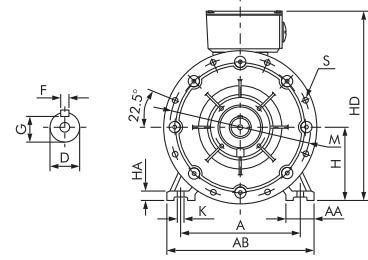
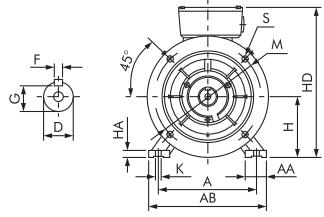
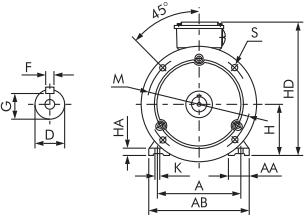
ME 80~132

ME 160~280

ME 315~355

Frame Size	AC	AD	D	E	F	G	L	LA	M	N	P	S	T
80	175	145	19	40	6	15.5	295	12	165	130	200	12	3.5
90S	195	155	24	50	8	20	320	12	165	130	200	12	3.5
90L	195	155	24	50	8	20	345	12	165	130	200	12	3.5
100L	215	180	28	60	8	24	385	14	215	180	250	15	4
112M	240	190	28	60	8	24	400	14	215	180	250	15	4
132S	275	210	38	80	10	33	470	14	265	230	300	15	4
132M	275	210	38	80	10	33	510	14	265	230	300	15	4
160M	330	255	42	110	12	37	605	15	300	250	350	19	5
160L	330	255	42	110	12	37	660	15	300	250	350	19	5
180M	380	280	48	110	14	42.5	690	15	300	250	350	19	5
180L	380	280	48	110	14	42.5	725	15	300	250	350	19	5
200L	420	305	55	110	16	49	765	17	350	300	400	19	5
225S (4-8P)	465	335	60	140	18	53	810	20	400	350	450	19	5
225M (2P)	465	335	55	110	16	49	805	20	400	350	450	19	5
225M (4-8P)	465	335	60	140	18	53	835	20	400	350	450	19	5
250M (2P)	520	370	60	140	18	53	910	20	500	450	550	19	5
250M (4-8P)	520	370	65	140	18	58	910	20	500	450	550	19	5
280S (2P)	570	410	65	140	18	58	980	22	500	450	550	19	5
280S (4-8P)	570	410	75	140	20	67.5	980	22	500	450	550	19	5
280M (2P)	570	410	65	140	18	58	1030	22	500	450	550	19	5
280M (4-8P)	570	410	75	140	20	67.5	1030	22	500	450	550	19	5
315S (2P)	650	630	65	140	18	58	1180	24	600	550	660	24	6
315S (4-8P)	650	630	80	170	22	71	1275	24	600	550	660	24	6
315M (2P)	650	630	65	140	18	58	1290	24	600	550	660	24	6
315M (4-8P)	650	630	80	170	22	71	1320	24	600	550	660	24	6
315L (2P)	650	630	65	140	18	58	1290	24	600	550	660	24	6
315L (4-8P)	650	630	80	170	22	71	1320	24	600	550	660	24	6
355M (2P)	735	655	75	140	20	67.5	1510	25	740	680	800	24	6
355M (4-8P)	735	655	95	170	25	86	1540	25	740	680	800	24	6
355L (2P)	735	655	75	140	20	67.5	1510	25	740	680	800	24	6
355L (4-8P)	735	655	95	170	25	86	1540	25	740	680	800	24	6

DIMENSIONS FOOT - FLANGE MOUNT B35



ME 80~132

ME 160~280

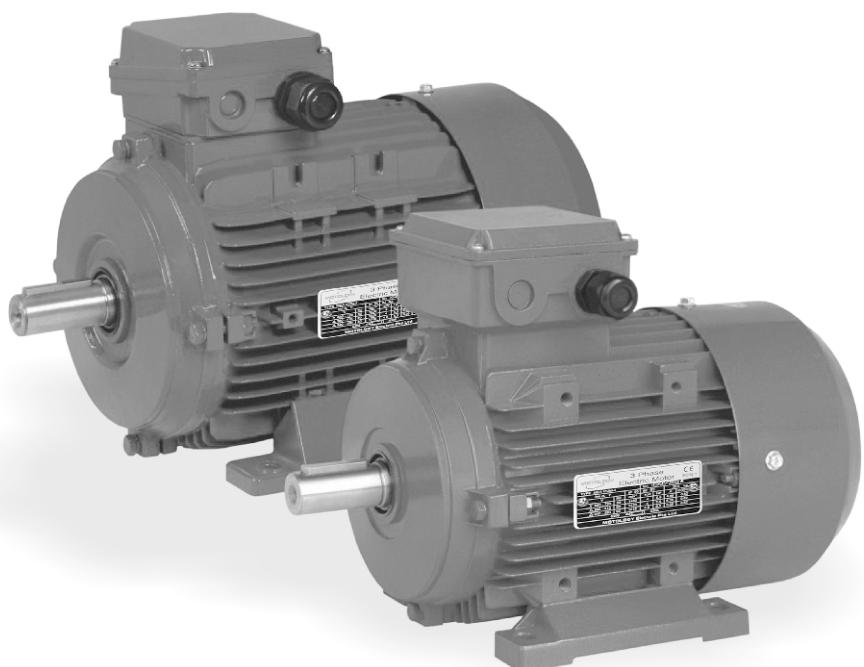
ME 315~355

Frame Size	A	AA	AB	AC	B	BB	C	D	E	F	G	H	HA	HD	K	L	LA	M	N	P	S	T
80	125	34	165	175	100	130	50	19	40	6	15.5	80	10	220	10	295	12	165	130	200	12	3.5
90S	140	36	180	195	100	135	56	24	50	8	20	90	12.5	250	10	320	12	165	130	200	12	3.5
90L	140	36	180	195	125	160	56	24	50	8	20	90	12.5	250	10	345	12	165	130	200	12	3.5
100L	160	40	205	215	140	182	63	28	60	8	24	100	14	270	12	385	14	215	180	250	15	4
112M	190	45	230	240	140	195	70	28	60	8	24	112	14	300	12	400	14	215	180	250	15	4
132S	216	52	270	275	140	205	89	38	80	10	33	132	16	345	12	470	14	265	230	300	15	4
132M	216	52	270	275	178	245	89	38	80	10	33	132	16	345	12	510	14	265	230	300	15	4
160M	254	65	315	330	210	260	108	42	110	12	37	160	19	400	15	605	15	300	250	350	19	5
160L	254	65	315	330	254	305	108	42	110	12	37	160	19	400	15	660	15	300	250	350	19	5
180M	279	74	355	380	241	297	121	48	110	14	42.5	180	22	440	15	690	15	300	250	350	19	5
180L	279	74	355	380	279	327	121	48	110	14	42.5	180	22	440	15	725	15	300	250	350	19	5
200L	318	75	395	420	305	370	133	55	110	16	49	200	25	500	19	765	17	350	300	400	19	5
225S (4-8P)	356	75	436	465	286	355	149	60	140	18	53	225	28	555	19	810	20	400	350	450	19	5
225M (2P)	356	75	436	465	311	380	149	55	110	16	49	225	28	550	19	805	20	400	350	450	19	5
225M (4-8P)	356	75	436	465	311	380	149	60	140	18	53	225	28	550	19	835	20	400	350	450	19	5
250M (2P)	406	88	495	520	349	440	168	60	140	18	53	250	33	615	24	910	20	500	450	550	19	5
250M (4-8P)	406	88	495	520	349	440	168	65	140	18	58	250	33	615	24	910	20	500	450	550	19	5
280S (2P)	457	103	550	570	368	495	190	65	140	18	58	280	35	660	24	980	22	500	450	550	19	5
280S (4-8P)	457	103	550	570	368	495	190	75	140	20	67.5	280	35	660	24	980	22	500	450	550	19	5
280M (2P)	457	103	550	570	419	535	190	65	140	18	58	280	35	660	24	1030	22	500	450	550	19	5
280M (4-8P)	457	103	550	570	419	535	190	75	140	20	67.5	280	35	660	24	1030	22	500	450	550	19	5
315S (2P)	508	120	630	650	406	515	216	65	140	18	58	315	45	825	28	1180	24	600	550	660	24	6
315S (4-8P)	508	120	630	650	406	515	216	80	170	22	71	315	45	825	28	1275	24	600	550	660	24	6
315M (2P)	508	120	630	650	457	625	216	65	140	18	58	315	45	830	28	1290	24	600	550	660	24	6
315M (4-8P)	508	120	630	650	457	625	216	80	170	22	71	315	45	830	28	1320	24	600	550	660	24	6
315L (2P)	508	120	630	650	508	625	216	65	140	18	58	315	45	830	28	1290	24	600	550	660	24	6
315L (4-8P)	508	120	630	650	508	625	216	80	170	22	71	315	45	830	28	1320	24	600	550	660	24	6
355M (2P)	610	125	735	735	560	775	254	75	140	20	67.5	355	49	1010	28	1510	25	740	680	800	24	6
355M (4-8P)	610	125	735	735	560	775	254	95	170	25	86	355	49	1010	28	1540	25	740	680	800	24	6
355L (2P)	610	125	735	735	630	775	254	75	140	20	67.5	355	49	1010	28	1510	25	740	680	800	24	6
355L (4-8P)	610	125	735	735	630	775	254	95	170	25	86	355	49	1010	28	1540	25	740	680	800	24	6

MEA

**SERIES THREE-PHASE
ASYNCHRONOUS
MOTOR
ALUMINIUM HOUSING**

IE1



INTRODUCTION

- Conform to IEC standard
- Made with carefully selected quality materials with the latest design in mind
- High performance, low noise, low vibration, safe and reliable operation
- Light weight with the latest design
- Easy maintenance with simple construction
- For all general purpose drive and industry

MOTOR FEATURES

- IP 55 enclosures, others upon request
- Universal mounting
- Aluminium frame and feet
- Strengthen cable gland
- Comes with shaft key and protector
- Quality paint finish
- Heavy duty service factors
- Stainless steel shaft upon request
- Continuous S1 duty
- Utilise vacuum impregnated Class B or Class F Insulation
- All other insulation available upon request
- High performance and efficiency

CUSTOMER BENEFITS

- Water dust and vermin resistant
- Low noise
- Low electrical consumption
- Corrosion resistant
- Suitable for most environments
- Easy installation (bolt on feet or brackets as required)
- Reliable and longer motor life span



MOTOLEGACY ELECTRIC MOTORS

TECHNICAL DATA - 2 POLE (3000 RPM) ASYNCHRONOUS SPEED 50 HZ

MODEL	Rated Output		Rated Speed (rpm)	IFL 380V (Amp)	EFF %	Power Factor	Rated Torque (Nm)	TS TN	TMAX TN	IS IN	Net Weight (kg)
	kW	HP									
MEA63A-2	0.18	0.25	2715	0.53	65.0	0.80	0.6	2.2	2.4	6.0	4
MEA71A-2	0.37	0.50	2690	0.99	70.0	0.81	1.3	2.2	2.4	6.0	6
MEA71B-2	0.55	0.75	2715	1.40	73.0	0.82	1.9	2.2	2.4	6.0	6.5
MEA80A-2	0.75	1	2730	1.90	72.1	0.83	2.5	2.2	2.4	6.0	9.3
MEA80B-2	1.1	1.5	2746	2.65	75.0	0.84	3.7	2.2	2.4	6.0	10
MEA90S-2	1.5	2	2770	3.51	77.2	0.84	5	2.2	2.4	6.0	14
MEA90L-2	2.2	3	2772	4.93	79.7	0.85	7.4	2.2	2.4	6.0	16
MEA100L-2	3	4	2870	6.43	81.5	0.87	10	2.2	2.3	7.0	21
MEA112M-2	4	5.5	2890	8.31	83.1	0.88	13.3	2.5	2.7	7.0	27
MEA132SA-2	5.5	7.5	2910	11.21	84.7	0.88	18.1	2.5	2.7	7.5	39
MEA132SB-2	7.5	10	2900	15.06	86.0	0.88	24.5	2.5	2.7	7.5	44

TECHNICAL DATA - 4 POLE (1500 RPM) ASYNCHRONOUS SPEED 50 HZ

MODEL	Rated Output		Rated Speed (rpm)	IFL 380V (Amp)	EFF %	Power Factor	Rated Torque (Nm)	TS TN	TMAX TN	IS IN	Net Weight (kg)
	kW	HP									
MEA63B-4	0.18	0.25	1340	0.62	66.0	0.73	1.2	2.2	2.4	6.0	4.9
MEA71B-4	0.37	0.50	1375	1.12	67.0	0.75	2.6	2.2	2.4	6.0	6.4
MEA80A-4	0.55	0.75	1370	1.57	71.0	0.75	3.8	2.2	2.4	6.0	9
MEA80B-4	0.75	1	1380	2.08	72.1	0.76	5.2	2.2	2.4	6.0	10.5
MEA90S-4	1.1	1.5	1390	2.89	75.0	0.77	7.5	2.2	2.4	6.0	13.5
MEA90L-4	1.5	2	1400	3.74	77.2	0.79	10.2	2.2	2.4	6.0	16
MEA100LA-4	2.2	3	1430	5.18	79.7	0.81	14.8	2.2	2.3	7.0	20
MEA100LB-4	3	4	1430	6.82	81.5	0.82	20.2	2.2	2.3	7.0	24
MEA112M-4	4	5.5	1430	8.92	83.1	0.82	26.5	2.2	2.3	7.0	30.5
MEA132S-4	5.5	7.5	1440	11.89	84.7	0.83	36.5	2.2	2.2	7.0	44
MEA132M-4	7.5	10	1450	15.77	86.0	0.84	49.8	2.2	2.2	7.0	54.5

■ TS = Starting Torque

■ TN = Rated Torque

■ Tmax = Maximum Torque

■ IS = Starting Current

■ IN = Rated Current

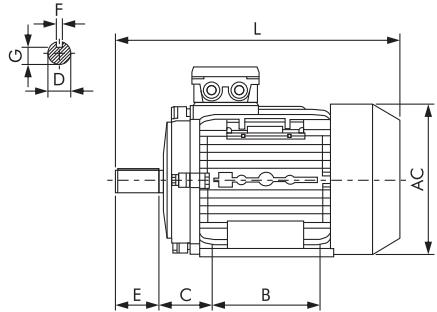
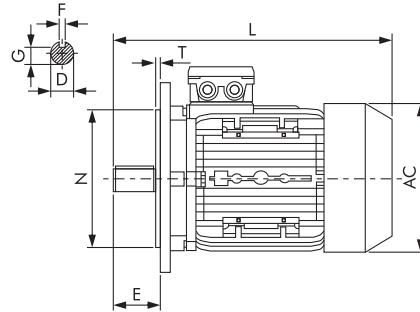
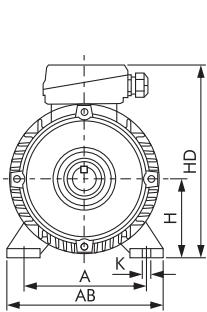
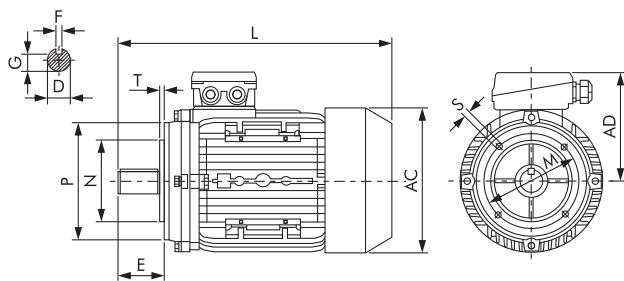
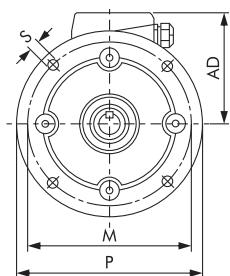
TECHNICAL DATA - 6 POLE (1000 RPM) ASYNCHRONOUS SPEED 50 HZ

MODEL	Rated Output		Rated Speed (rpm)	IFL 380V (Amp)	EFF %	Power Factor	Rated Torque (Nm)	TS TN	TMAX TN	IS IN	Net Weight (kg)
	kW	HP									
MEA71A-6	0.18	0.25	880	0.74	56.0	0.66	2	2.2	2.4	6.0	5.9
MEA80A-6	0.37	0.5	915	1.30	62.0	0.70	4	2.2	2.4	6.0	8.9
MEA80B-6	0.55	0.75	920	1.79	65.0	0.72	5.9	2.2	2.4	6.0	9.3
MEA90S-6	0.75	1	930	2.26	70.0	0.72	7.9	2.2	2.2	5.5	12
MEA90L-6	1.1	1.5	930	3.14	72.9	0.73	11.5	2.2	2.2	5.5	16
MEA100L-6	1.5	2	945	4.04	75.2	0.75	15.6	2.2	2.2	6.0	20
MEA112M-6	2.2	3	945	5.66	77.7	0.76	22.4	2.2	2.2	6.0	26.5
MEA132S-6	3	4	945	7.52	79.7	0.76	29.9	2.0	2.0	6.5	34
MEA132MA-6	4	5.5	960	9.82	81.4	0.76	39.8	2.0	2.0	6.5	46.5
MEA132MB-6	5.5	7.5	960	13.06	83.1	0.77	54.7	2.0	2.0	6.5	54

TECHNICAL DATA - 8 POLE (750 RPM) ASYNCHRONOUS SPEED 50 HZ

MODEL	Rated Output		Rated Speed (rpm)	IFL 380V (Amp)	EFF %	Power Factor	Rated Torque (Nm)	TS TN	TMAX TN	IS IN	Net Weight (kg)
	kW	HP									
MEA80A-8	0.18	0.25	680	0.88	51.0	0.61	2.8	2.2	2.4	6.0	9
MEA90S-8	0.37	0.5	680	1.49	62.0	0.61	5.4	2.2	2.4	6.0	14
MEA90L-8	0.55	0.75	700	2.17	63.0	0.61	8	2.2	2.4	6.0	17
MEA100LA-8	0.75	1	700	2.40	71.0	0.67	10.4	2.2	2.3	6.0	19
MEA100LB-8	1.1	1.5	710	3.32	73.0	0.69	15.2	2.2	2.3	6.0	20
MEA112M-8	1.5	2	710	4.40	75.0	0.69	20.8	2.2	2.3	6.0	27
MEA132S-8	2.2	3	720	6.04	78.0	0.71	29.6	2.0	2.0	6.0	36
MEA132M-8	3	4	720	7.90	79.0	0.73	40.4	2.0	2.0	5.5	43

■ TS = Starting Torque ■ TN = Rated Torque ■ Tmax = Maximum Torque ■ IS = Starting Current ■ IN = Rated Current

INSTALLATION DIMENSIONS

MEA B3

MEA B5

MEA B14

Frame Size	Mounting Dimensions																	Frame Dimensions						
	MEA B3								MEA B14						MEA B5									
	A	B	C	D	E	F	G	H	K	M	N	P	S	T	M	N	P	S	T	AB	AC	AD	HD	L
56	90	71	36	9	20	3	7.2	56	5.8	65	50	80	M5	2.5	100	80	120	7	3	108	110	100	156	195
63	100	80	40	11	23	4	8.5	63	7	75	60	90	M5	2.5	115	95	140	10	3	125	120	109	172	213
71	112	90	45	14	30	5	11	71	7	85	70	105	M6	2.5	130	110	160	10	3.5	132	139	117	188	255
80	125	100	50	19	40	6	15.5	80	10	100	80	120	M6	3	165	130	200	12	3.5	160	158	135	215	285
90S	140	100	56	24	50	8	20	90	10	115	95	140	M8	3	165	130	200	12	3.5	176	175	145	235	304
90L	140	125	56	24	50	8	20	90	10	115	95	140	M8	3	165	130	200	12	3.5	176	175	145	235	329
100L	160	140	63	28	60	8	24	100	12	130	110	160	M8	3.5	215	180	250	14.5	4	196	196	155	255	372
112M	190	140	70	28	60	8	24	112	12	130	110	160	M8	3.5	215	180	250	14.5	4	219	219	172	284	394
132S	216	140	89	38	80	10	33	132	12	165	130	200	M10	3.5	265	230	300	14.5	4	256	258	192	324	462
132M	216	178	89	38	80	10	33	132	12	165	130	200	M10	3.5	265	230	300	14.5	4	256	258	192	324	500
160M	254	210	108	43	110	12	37	160	15	215	180	250	M12	4	300	250	350	18.5	5	302	314	246	406	617
160L	254	254	108	42	110	12	37	160	15	215	180	250	M12	4	300	250	350	18.5	5	302	314	246	406	661

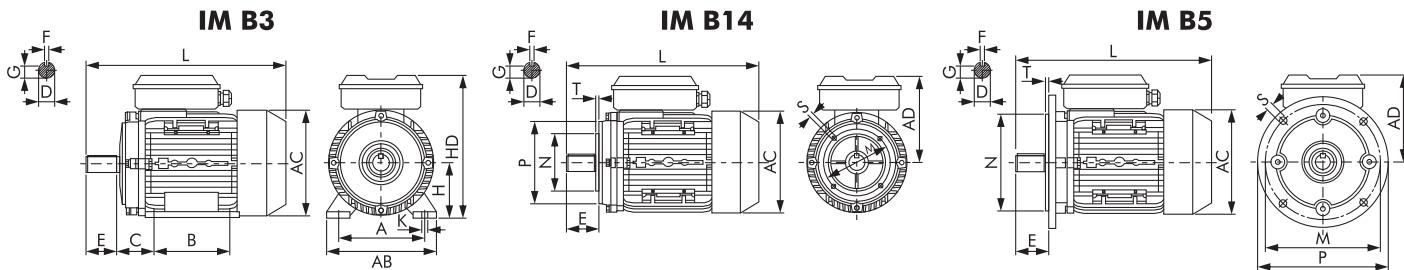
ML

**SERIES SINGLE-PHASE
DUAL-CAPACITOR
ASYNCHRONOUS
MOTORS**
ALUMINIUM HOUSING



INTRODUCTION

- Conform to the IEC Standard
- Be made of selected quality materials
- Good performance, low noise, little vibration, safety & reliable operation
- Nice appearance, light weight
- Be maintained very conveniently, simple construction
- Good general performance, 1.8 to 2.5 times more than rated torque



INSTALLATION SIZE AND OVERALL DIMENSION

FRAME SIZE	Mounting Dimension (mm)												Frame Dimension (mm)											
	IM B3						IM B14																	
	A	B	C	D	E	F	G	H	K	M	N	P	S	T	M	N	P	S	T	AB	AC	AD	HD	L
63	100	80	40	11	23	4	8.5	63	7	75	60	90	M5	2.5	115	95	140	10	3	125	120	109	172	213
71	112	90	45	14	30	5	11	71	7	85	70	105	M6	2.5	130	110	160	10	3.5	132	139	117	188	255
80	125	100	50	19	40	6	15.5	80	10	100	80	120	M6	3	165	130	200	12	3.5	160	158	135	215	285
90S	140	100	56	24	50	8	20	90	10	115	95	140	M8	3	165	130	200	12	3.5	176	175	145	235	304
90L	140	125	56	24	50	8	20	90	10	115	95	140	M8	3	165	130	200	12	3.5	176	175	145	235	329
100L	160	140	63	28	60	8	24	100	12	130	110	160	M8	3.5	215	180	250	14.5	4	196	196	155	255	372
112M	190	140	70	28	60	8	24	112	12	130	110	160	M8	3.5	215	180	250	14.5	4	219	219	172	284	294

TECHNICAL DATA

MODEL	Power (kW)	Voltage (V)	Current (A)	Rated Speed (rpm)	EFF %	Power Factor	TS TN	TMAX TN	Net Weight (kg)
ML63A-2	0.18	220	1.56	2800	57	0.95	2.5	1.8	5.5
ML71A-2	0.37	220	2.73	2800	67	0.92	2.5	1.8	6.3
ML71B-2	0.55	220	3.88	2800	70	0.92	2.5	1.8	7.2
ML80A-2	0.75	220	5.15	2800	72	0.92	2.5	1.8	9.2
ML80B-2	1.1	220	7.02	2800	75	0.95	2.5	1.8	11.5
ML90S-2	1.5	220	9.44	2800	76	0.95	2.5	1.8	14.4
ML90L-2	2.2	220	13.67	2800	77	0.95	2.5	1.8	17.1
ML100L-2	3	220	18.2	2800	79	0.95	2.5	1.8	24.2
ML112M-2	3.7	220	22.12	2800	80	0.95	2.5	1.8	30.5
ML63B-4	0.18	220	1.62	1400	52	0.97	2.5	1.8	5.8
ML71B-4	0.37	220	2.81	1400	65	0.92	2.5	1.8	8.2
ML80A-4	0.55	220	4.0	1400	68	0.92	2.5	1.8	10.4
ML80B-4	0.75	220	5.22	1400	71	0.92	2.5	1.8	11.5
ML90S-4	1.1	220	7.2	1400	73	0.95	2.5	1.8	11.6
ML90L-4	1.5	220	9.57	1400	75	0.95	2.5	1.8	16.9
ML100LA-4	2.2	220	13.9	1400	76	0.95	2.5	1.8	22.5
ML100LB-4	3	220	18.6	1400	77	0.96	2.5	1.8	26.3
ML112M-4	3.7	220	22.37	1400	78	0.95	2.5	1.8	33.5

■ TS = Starting Torque ■ TN = Rated Torque ■ Tmax = Maximum Torque

MSEJ

**SERIES THREE-PHASE
ASYNCHRONOUS
BRAKING MOTORS
ALUMINIUM HOUSING**

DC BRAKE

VOLTAGE, FREQUENCY AND DUTY

- Suitable Frequency: 50Hz, 60Hz
- Rated Voltage: 220/380V, 380/660V, other request
- Duty: Continuous (S1)
- Insulation Class: B, F
- Protection: IP44, IP54 or IP55
- Cooling: IC 0141
- Connection: Star "Y" for powers below 4KW;
Delta "Δ" for 5.5KW and above
- Ambient Temperature: -20°C ~ -40°C
- Altitude: Below 1000m

BRAKE TECHNICAL DATA

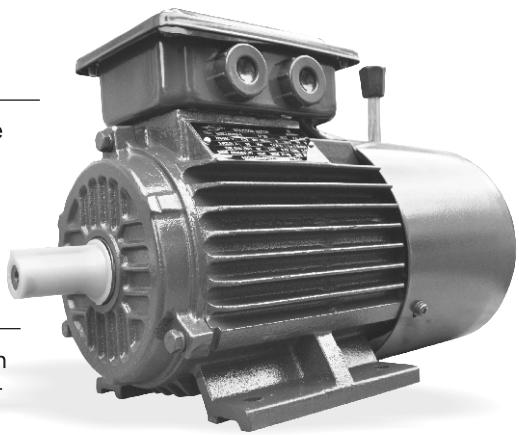
FRAME	63	71	80	90	100	112	132	160	180
Rated Torque Me (Nm)	4	5	7.5	15	30	40	75	150	200
Power P20°C (w)	25	25	50	60	80	110	130	150	150
On time T1 (ms)	60	63	87	110	140	152	165	214	252
On time T2 (ms)	50	55	75	95	120	130	140	180	210
Aperture & max (mm)	0.2	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.6
Max aperture & max (mm)	0.8	0.8	1	1	1	1.2	1.2	1.2	1.2
Voltage DC (V)	99	99	99	99	99	170	170	170	170

MOTOR FEATURES

High efficiency, energy-saving, big braking force moment, suitable for any frequently started machines reliable, safe, and low noise. Easy maintain, the brake can be uncharged by man.

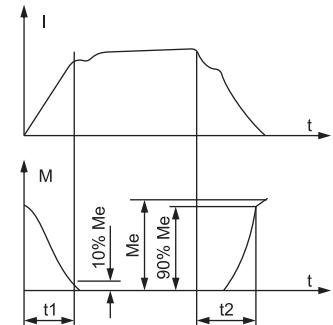
CONDITION

- Altitude: Above sea level, not exceeding 1000m
- Ambient temperature: it varies with seasons but not exceeding +40



APPLICATION

Suitable for any kind of machine which is required to stop quickly, located accurately, rotating and brake frequently. Such as: machine tools, packing machinery, wood worker, machinery, food processing machinery, chemical engineering machinery, textile machinery, construction machinery, gear reducer and so on.

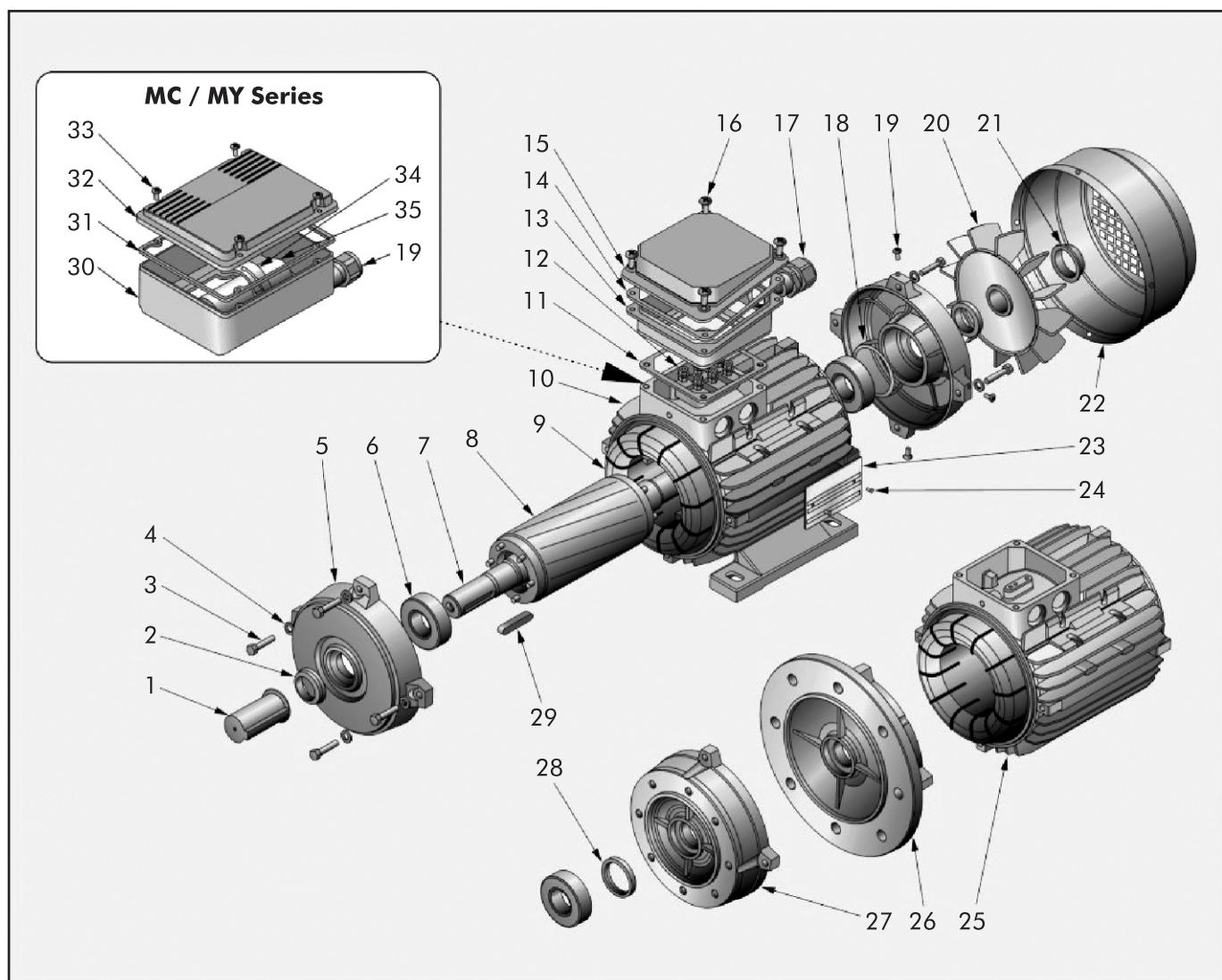


BRAKE CURVES

TECHNICAL DATA

MODEL	Rated Output		380V (50Hz)	Speed (rpm)	Eff (%)	Power Factor	Static Braking Torque (Nm)	No-Load Brake Lag Time (S)	Power (w)	Lastar /In	Tstart /In	Tmax /In	Weight (kg)
	kW	HP											
MSEJ7124	0.37	0.50	1.12	1375	67	0.75	4	0.20	18	5.2	2.1	2.4	9.18
MSEJ8014	0.55	0.75	1.57	1370	71	0.75	7.5	0.20	50	6.0	2.4	2.3	17.9
MSEJ8024	0.75	1	2.05	1380	73	0.76	7.5	0.20	50	6.0	2.3	2.3	18.7
MSEJ90S-4	1.1	1.5	2.89	1390	75	0.77	15	0.20	60	6.5	2.3	2.3	25.5
MSEJ90L-4	1.5	2	3.70	1400	78	0.79	15	0.20	60	6.5	2.3	2.3	26.8
MSEJ100L1-4	2.2	3	5.16	1430	80	0.81	30	0.20	80	7.0	2.2	2.3	40.5
MSEJ100L2-4	3	4	6.78	1430	82	0.82	30	0.20	80	7.0	2.2	2.3	41.9
MSEJ112M-4	4	5.5	8.82	1430	84	0.82	40	0.25	110	7.0	2.2	2.3	52.5
MSEJ132S-4	5.5	7.5	11.84	1440	85	0.83	75	0.25	130	7.0	2.2	2.3	72.3
MSEJ132M-4	7.5	10	15.59	1450	87	0.84	75	0.25	130	7.0	2.2	2.3	81.5
MSEJ160M-4	11	15	22.71	1460	87	0.84	150	0.35	150	7.0	2.2	2.3	128.5
MSEJ160L-4	15	20	30.23	1460	88	0.85	150	0.35	150	7.0	2.2	2.2	146.2
MSEJ180L-4	22	30	43.23	1470	89	0.86	200	0.35	150	7.0	2.0	2.2	199.2

MOTOR SPARE PART LIST / DRAWING



No.	Description	No.	Description	No.	Description
1	Shaft cover	13	Terminal block box - base	25	B5 motor casing
2	V-ring	14	IP 65 gasket	26	B5 flange
3	Motor clamping screws	15	Terminal block box - cover	27	B14 flange
4	Spring ring	16	Terminal block box tightening screws	28	Sealing ring
5	Shield	17	Cable inlet bush	29	Shaft key
6	Bearing	18	Compensation ring	30	Capacitor-holder-base vers. MM
7	Motor shaft	19	Fan cover tightening screws	31	IP 55 gasket vers. MM
8	Rotor	20	PVC fan	32	Capacitor-holder-cover vers. MM
9	Wound stator	21	Ring for fan tightening	33	Capacitor-holder tightening screws vers. MM
10	Motor casing B3-BS	22	Fan cover	34	Capacitor clamp vers. MM
11	IP 55 gasket	23	Motor identification plate	35	Capacitor
12	Mains power connection terminal block	24	Motor identification plate tightening screws		

MOTOLOGY

ELECTRIC MOTORS



Dealer :