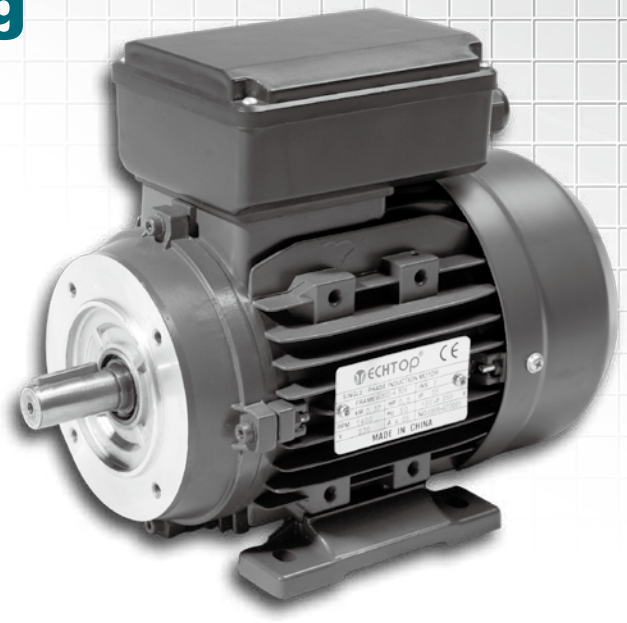
MC Series

Single-Phase Capacitor Start Asynchronous Motors

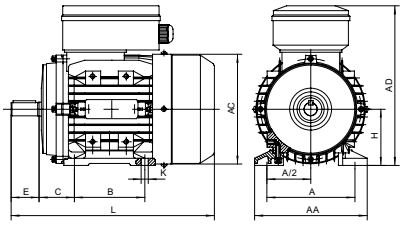
Aluminum Housing



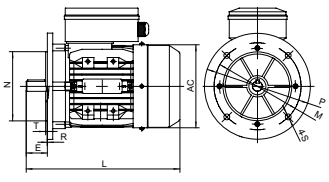
MC Series aluminum housing single-phase capacitor-start asynchronous motors, with latest design in entirety, are made of selected quality materials and conform to the IEC standard.

MC motors have good performance, safely and reliable operation, nice appearance, and can be maintained very conveniently, while with low noises, little vibration and at the same time of light weight and simple construction. High starting torque, perfect starting performance, generally the multiple of the starting torque can up to 3.0 times.

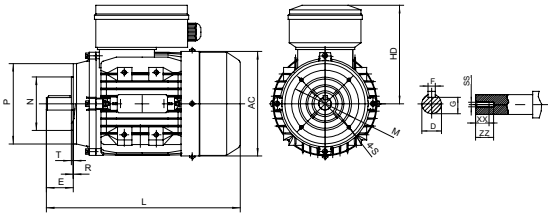
These series motors are suitable for the occasion where big starting torque and small starting current, such as air-compressors, pumps, refrigerators, medical apparatus, and many other machines needing full-load start.



IM B3



IM B5



IM B14

Overall & Installation Dimensions

FRAME	Mounting Dimensions									Overall Dimensions					Shaft End Screw Dimensions		
	H	A	B	C	D	E	F	G	K	AA	AD	HD	AC	L	SS	XX	ZZ
MC 63	63	100	80	40	Φ11	23	4	8.5	7×10	120	181	118	Φ121	217	M4	10	14
MC 71	71	112	90	45	Φ14	30	5	11	7×10	132	196	125	Φ139	255	M5	12	17
MC 80	80	125	100	50	Φ19	40	6	15.5	10×13	160	226	146	Φ156	290	M6	16	21
MC 90S	90	140	100	56	Φ24	50	8	20	10×13	175	243	153	Φ174	335	M8	19	25
MC 90L	90	140	125	56	Φ24	50	8	20	10×13	175	243	153	Φ174	365	M8	19	25
MC 100L	100	160	140	63	Φ28	60	8	24	12×15	198	265	165	Φ196	403(421)	M10	22	30
MC 112M	112	190	140	70	Φ28	60	8	24	12×15	220	297	185	Φ221	431	M10	22	30

FRAME	KK	B5						B14						B5R						B14B					
		N	M	P	S	T	R	N	M	P	S	T	R	N	M	P	T	S	R	N	M	P	T	S	R
MC 63	1–M20*1.5	Φ95	Φ115	Φ140	Φ10	3	0	Φ60	Φ75	Φ90	M5	2.5	0												
MC 71	1–M20*1.5	Φ110	Φ130	Φ160	Φ10	3.5	0	Φ70	Φ85	Φ105	M6	2.5	0	Φ95	Φ115	Φ140	3	Φ10	0	Φ95	Φ115	Φ140	3	M8	0
MC 80	1–M20*1.5	Φ130	Φ165	Φ200	Φ12	3.5	0	Φ80	Φ100	Φ120	M6	3	0	Φ110	Φ130	Φ160	3.5	Φ10	0	Φ110	Φ130	Φ160	3.5	M8	0
MC 90	1–M20*1.5	Φ130	Φ165	Φ200	Φ12	3.5	0	Φ95	Φ115	Φ140	M8	3	0	Φ110	Φ130	Φ160	3.5	Φ10	0	Φ110	Φ130	Φ160	3.5	M8	0
MC 100	1–M20*1.5	Φ180	Φ215	Φ250	Φ15	4	0	Φ110	Φ130	Φ160	M8	3.5	0	Φ130	Φ165	Φ200	3.5	Φ12	0	Φ130	Φ165	Φ200	3.5	M10	0
MC 112	1–M25*1.5	Φ180	Φ215	Φ250	Φ15	4	0	Φ110	Φ130	Φ160	M8	3.5	0	Φ130	Φ165	Φ200	3.5	Φ12	0	Φ130	Φ165	Φ200	3.5	M10	0

Technical Data (at 230V/50Hz)

MODEL	Power (kW)	Current (A)	Speed (r/min)	Eff (%)	Power factor (cos ϕ)	T_{start}/T_n (Times)	T_{max}/T_n (Times)	Starting Current (A)	Start Capacitor (μ f/V)	Noise dB(A)	W.T (kg)	Inertia kg*m²
MC631–2	0.09	1.22	2650	44	0.73	3	1.6	5	30uf/250V	67	3.66	0.000131
MC632–2	0.12	1.36	2730	52	0.74	3	1.8	6	40uf/250V	67	4.18	0.000157
MC711–2	0.18	1.86	2750	60	0.70	3.0	2.2	12	75 μ F/250V	70	5.8	0.000330
MC712–2	0.25	2.43	2780	62	0.72	3.0	2.2	15	75 μ F/250V	70	6.75	0.000410
MC801–2	0.37	3.46	2800	62	0.75	2.8	2.2	21	100 μ F/250V	75	9	0.000779
MC802–2	0.55	4.78	2800	65	0.77	2.8	2.2	29	150 μ F/250V	75	10.3	0.000936
MC90S–2	0.75	6.15	2810	68	0.78	2.5	2.2	37	200 μ F/300V	75	13	0.001366
MC90L–2	1.1	8.76	2820	70	0.78	2.5	2.2	60	250 μ F/300V	78	16	0.001838
MC100L1–2	1.5	11.5	2830	72	0.79	2.5	2.0	80	300 μ F/300V	83	22	0.004126
MC100L2–2	2.2	16.6	2840	73	0.79	2.2	2.0	120	400 μ F/300V	83	26	0.005672
MC112M–2	3.0	22.0	2850	74	0.8	2.2	1.9	150	600 μ F/300V	87	35.3	0.007972
MC631–4	0.06	1.22	1400	39	0.55	3	2	5	30 μ F/250V	63	4.1	0.000292
MC632–4	0.09	1.80	1390	39.5	0.55	3	2	6	30uf/250V	63	4.5	0.000340
MC711–4	0.12	1.86	1360	50	0.56	3.0	2.2	9	50 μ F/250V	65	5.6	0.000558
MC712–4	0.18	2.46	1380	53	0.6	2.8	2.2	12	75 μ F/250V	65	6.7	0.000729
MC801–4	0.25	3.07	1390	58	0.61	2.8	2.2	15	100 μ F/250V	65	9.6	0.001379
MC802–4	0.37	4.18	1400	62	0.62	2.5	2.2	21	100 μ F/250V	70	10.4	0.001563
MC90S–4	0.55	5.49	1400	66	0.66	2.5	2.0	29	150 μ F/250V	70	13	0.002266
MC90L–4	0.75	6.85	1410	68	0.7	2.5	2.0	37	150 μ F/250V	70	15	0.003009
MC100L1–4	1.1	9.49	1420	71	0.71	2.5	2.0	60	250 μ F/300V	73	20.7	0.006727
MC100L2–4	1.5	12.4	1430	73	0.72	2.5	2.0	80	400 μ F/300V	78	24.5	0.009225
MC112M–4	2.2	17.7	1440	74	0.73	2.2	1.9	120	600 μ F/300V	78	33.8	0.013404