



## ALUMINIUM HOUSING

# ML SERIES

## SINGLE-PHASE DUAL-CAPACITOR ASYNCHRONOUS MOTORS

### OPERATING CONDITIONS

- Ambient temperature:  $-15^{\circ}\text{C} \leq \theta \leq 40^{\circ}\text{C}$
- Above sea level: not exceed 1000m
- Rated voltage:  $\pm 5\%$
- Voltage: 220V/60Hz
- Protection Class: IP44/IP54/IP55
- Insulation Class: B/F
- Cooling method: IC0141
- Duty: continuous(S)

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

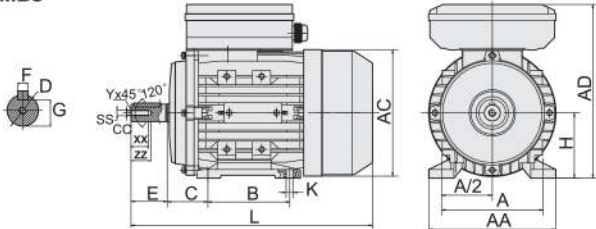
ML motors have good performance, safety and reliable operation, nice appearance and can be maintained very conveniently, while with low noises, little vibration and at the same time of lightweight and simple construction. The composite performance is good, the multiple of starting torque is 1.8~2.5. These series motors are suitable for the occasion where the requirements of big starting torque and high over load, such as air-compressors, pumps, fans, medical apparatus and instruments, and many other small machines.

**TECHNICAL DATA AT 220V 60Hz**

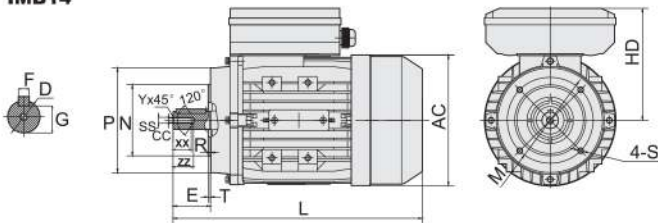
TYPE	Power KW	Current (A)	Speed (r/min)	Eff (%)	Power Factor	Rated Torque (N.M)	Tstart/Tn	Tmax/Tn	Starting current (A)	Run Capacitor (uf/v)	Start Capacitor (uf/v)
ML711-2	0.37	2.42	3380	70	0.95	1.27	2.5	1.7	15	12uf/450V	75uf/250V
ML712-2	0.55	3.45	3390	73	0.95	1.88	2.5	1.7	20	16uf/450V	100uf/250V
ML801-2	0.75	4.54	3400	74	0.97	2.59	2.5	1.7	30	20uf/450V	100uf/250V
ML802-2	1.10	6.45	3410	76	0.97	3.74	2.5	1.7	40	25uf/450V	150uf/250V
ML90S-2	1.50	8.62	3410	78	0.97	5.10	2.5	1.8	55	40uf/400V	150uf/250V
ML90L-2	2.20	12.5	3410	79	0.97	7.48	2.2	1.8	75	50uf/400V	250uf/250V
ML100L-2	3.00	16.6	3430	80	0.98	10.12	2.2	2.0	95	60uf/400V	400uf/300V
ML711-4	0.25	1.94	1730	61	0.92	1.73	2.5	1.6	10	14uf/450V	50uf/250V
ML712-4	0.37	2.80	1740	62	0.92	2.56	2.5	1.5	15	16uf/450V	75uf/250V
ML801-4	0.55	3.80	1750	67	0.94	3.75	2.5	1.7	20	20uf/450V	100uf/250V
ML802-4	0.75	4.75	1760	73	0.94	5.08	2.5	1.7	30	25uf/450V	150uf/250V
ML90S-4	1.10	6.76	1760	74	0.95	7.45	2.2	1.8	40	30uf/450V	150uf/250V
ML90L-4	1.50	9.03	1750	76	0.95	10.09	2.2	1.8	55	40uf/450V	200uf/250V
ML100L1-4	2.20	12.6	1750	78	0.97	14.69	2.2	1.8	75	50uf/450V	300uf/250V
ML100L2-4	3.00	17.0	1750	79	0.97	19.90	2.2	1.8	95	60uf/450V	400uf/250V
ML112M-4	3.70	20.7	1750	80	0.97	24.54	2.0	2.0	120	60uf/450V	500uf/250V

Note: 230V/50Hz, 240V/50Hz, 110V/60Hz, 115V/60Hz, 127V/60Hz, Models are available on request.

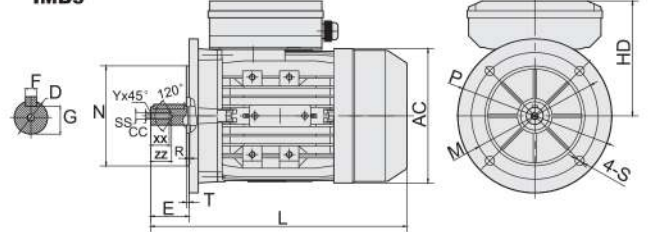
**IMB3**



**IMB14**



**IMB5**



**OVERALL & INSTALLATION DIMENSION**

Frame Size	Installation Size															Overall Dimension					Shaft end screw dimensions										
	IMB3					IMB14					IMB5					AA	AC	AD	HD	L	SS	XX	ZZ	CC	Y						
71	112	90	45	14	30	5	11	71	7X10	85	70	105	0	M6	2.5	130	110	160	0	φ 10	3.5	132	φ145	194	123	260	M5	12	18	4.2	0.8
80	125	100	50	19	40	6	15.5	80	10X13	100	80	120	0	M6	3.0	165	130	200	0	φ 12	3.5	157	φ165	223	143	295	M6	16	22	5	1
90S	140	100	56	24	50	8	20	90	10X13	115	95	140	0	M8	3.0	165	130	200	0	φ 12	3.5	172	φ185	240	150	335	M8	20	25	6.8	1
90L	140	125	56	24	50	8	20	90	10X13	115	95	140	0	M8	3.0	165	130	200	0	φ 12	3.5	172	φ185	240	150	365	M8	20	25	6.8	1
100L	160	140	63	28	60	8	24	100	12X15	130	110	160	0	M8	3.5	215	180	250	0	φ 15	4.0	196	φ205	260	160	400	M10	22	28	8.5	1.5
112M	190	140	70	28	60	8	24	112	12X15	130	110	160	0	M8	3.5	215	180	250	0	φ 15	4.0	222	φ230	295	183	453	M10	22	28	8.5	1.5