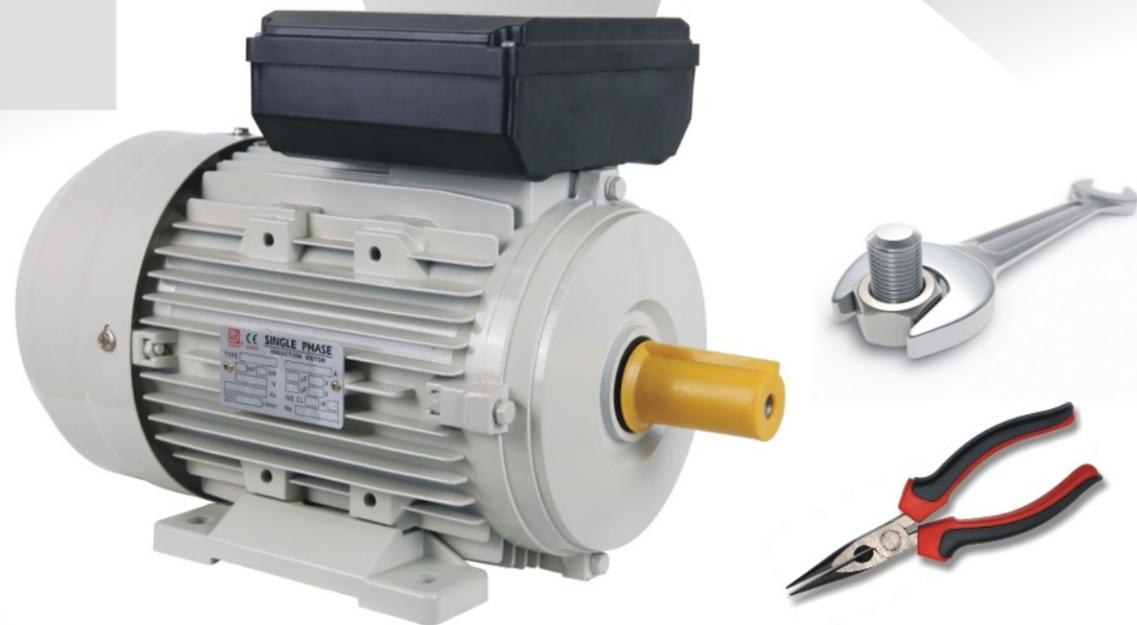


# SINGLE-PHASE DUAL-CAPACITOR ASYNCHRONOUS MOTORS

ALUMINUM HOUSING

# ML



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, the multiple of starting torque is up to 2.5.

These series motors are suitable for the occasion where the requirements of big starting torque and high overload, such as air-compressors, pumps, and many other small machines.

## OPERATING CONDITIONS

Ambient temperature:  $-15^{\circ}\text{C} < \theta < 40^{\circ}\text{C}$   
 Altitude: Not exceeding 1000meters  
 Rated voltage: 220V  
 Rated frequency: 50Hz, 60Hz  
 Duty/Rating: Continuous(S1)  
 Protection class: IP54, IP55  
 Insulation class: Class B, F  
 Cooling method: IC0141

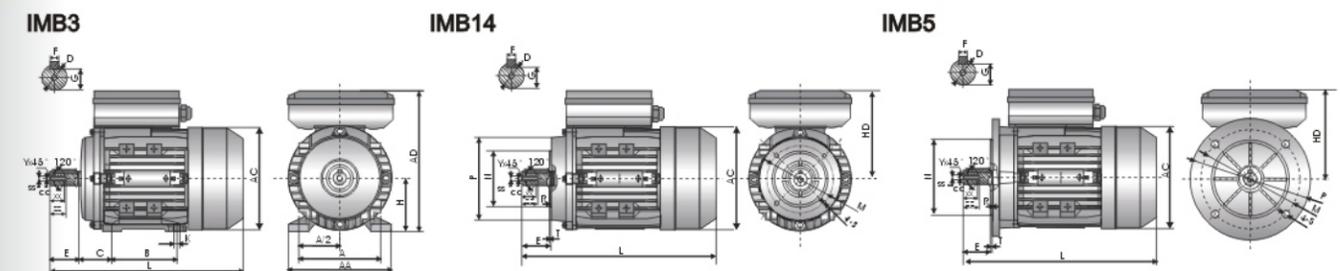
# ML Single-Phase Dual-Capacitor Asynchronous Motors

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## Technical data (at 230V/50Hz)

Model	Rated Output kW	Rated Current A	Rated Speed rpm	Eff $\eta$ %	Power factor COS $\phi$	Rated Torque Nm	Ts/Tn Times	Tmax/Tn Times	Starting Current A	Run Capacitor $\mu\text{F/V}$	Start Capacitor $\mu\text{F/V}$	Noise dB A	W.t. Kg
<b>3000rpm, 2-pole, 50Hz</b>													
ML631-2	0.18	1.38	2710	63	0.9	0.63	2.5	1.6	8	10 $\mu\text{F}/450\text{V}$	30 $\mu\text{F}/250\text{V}$	70	3.9
ML632-2	0.25	0.89	2710	64	0.9	0.88	2.5	1.6	10	12 $\mu\text{F}/450\text{V}$	40 $\mu\text{F}/250\text{V}$	73	4.4
ML711-2	0.37	2.66	2780	65	0.93	1.27	2.5	1.8	15	12 $\mu\text{F}/450\text{V}$	75 $\mu\text{F}/250\text{V}$	75	6.1
ML712-2	0.55	3.78	2790	68	0.93	0.88	2.5	1.8	20	16 $\mu\text{F}/450\text{V}$	100 $\mu\text{F}/250\text{V}$	76	7
ML801-2	0.75	4.87	2800	72	0.93	2.56	2.5	1.8	30	20 $\mu\text{F}/450\text{V}$	100 $\mu\text{F}/250\text{V}$	76	9
ML802-2	1.1	7.04	2810	73	0.93	3.74	2.5	1.8	40	30 $\mu\text{F}/450\text{V}$	150 $\mu\text{F}/250\text{V}$	79	10.3
ML90S-2	1.5	9.48	2810	74	0.93	5.10	2.5	1.8	55	40 $\mu\text{F}/450\text{V}$	200 $\mu\text{F}/300\text{V}$	84	16.3
ML90L-2	2.2	13.57	2810	75	0.94	7.48	2.5	1.8	75	50 $\mu\text{F}/450\text{V}$	250 $\mu\text{F}/300\text{V}$	84	16.7
ML100L-2	3.0	17.83	2830	77	0.95	10.13	2.5	1.7	110	60 $\mu\text{F}/450\text{V}$	400 $\mu\text{F}/300\text{V}$	88	25
ML112M1-2	3.7	21.48	2850	78	0.96	12.40	2.5	1.7	140	60 $\mu\text{F}/450\text{V}$	600 $\mu\text{F}/300\text{V}$	90	33
ML112M2-2	4.0	22.18	2850	80	0.98	13.41	2.5	1.7	150	60 $\mu\text{F}/450\text{V}$	600 $\mu\text{F}/300\text{V}$	90	34.2
<b>1500rpm, 4-pole, 50Hz</b>													
ML631-4	0.12	1.05	1350	55	0.9	0.85	2.5	1.6	6	10 $\mu\text{F}/450\text{V}$	30 $\mu\text{F}/250\text{V}$	64	4.1
ML632-4	0.18	1.55	1350	56	0.9	1.27	2.5	1.6	8.5	12 $\mu\text{F}/450\text{V}$	40 $\mu\text{F}/250\text{V}$	64	4.5
ML711-4	0.25	2.01	1380	60	0.9	1.73	2.5	1.7	10	12 $\mu\text{F}/450\text{V}$	50 $\mu\text{F}/250\text{V}$	66	5.9
ML712-4	0.37	2.84	1380	63	0.9	2.56	2.5	1.7	15	16 $\mu\text{F}/450\text{V}$	75 $\mu\text{F}/250\text{V}$	68	6.9
ML801-4	0.55	4.03	1400	66	0.9	3.75	2.5	1.8	20	20 $\mu\text{F}/450\text{V}$	100 $\mu\text{F}/250\text{V}$	71	9.6
ML802-4	0.75	5.25	1410	69	0.9	5.08	2.5	1.8	30	25 $\mu\text{F}/450\text{V}$	100 $\mu\text{F}/250\text{V}$	71	10.9
ML90S-4	1.1	7.24	1410	71	0.93	7.45	2.5	1.8	40	35 $\mu\text{F}/450\text{V}$	150 $\mu\text{F}/250\text{V}$	74	13.8
ML90L-4	1.5	9.61	1400	73	0.93	10.24	2.5	1.8	55	40 $\mu\text{F}/450\text{V}$	200 $\mu\text{F}/300\text{V}$	79	16.7
ML100L1-4	2.2	13.9	1430	74	0.93	14.70	2.5	1.8	75	50 $\mu\text{F}/450\text{V}$	300 $\mu\text{F}/300\text{V}$	79	22.8
ML100L2-4	3	18.7	1440	75	0.93	19.91	2.5	1.8	110	60 $\mu\text{F}/450\text{V}$	500 $\mu\text{F}/300\text{V}$	83	28.7
ML112M1-4	3.7	21.99	1440	77	0.95	24.55	2.5	1.7	140	60 $\mu\text{F}/450\text{V}$	600 $\mu\text{F}/300\text{V}$	86	31
ML112M2-4	4.0	22.41	1440	80	0.97	26.54	2.5	1.7	150	60 $\mu\text{F}/450\text{V}$	600 $\mu\text{F}/300\text{V}$	86	32.8

## Overall & Installation Dimensions



FRAME SIZE	MOUNTING DIMENSIONS											OVERALL DIMENSIONS					Shaft End Screw Dimensions														
	A	B	C	D	E	F	G	H	K	M	N	P	R	S	T	AA	AC	AD	HD	L	SS	XX	ZZ	CC	Y						
63	100	80	40	11	23	4	8.5	63	7X10	75	60	90	0	M5	2.5	115	95	140	0	10	3.0	120	130	179	116	212	M4	10	15	3.3	0.8
71	112	90	45	14	30	5	11	71	7X10	85	70	105	0	M6	2.5	130	110	160	0	10	3.5	132	145	194	123	255	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	12	3.5	157	165	223	143	290	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	12	3.5	172	185	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	12	3.5	172	185	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	15	4.0	196	205	260	160	445	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	15	4.0	222	230	295	183	453	M10	22	28	8.5	1.5