

MONARCH - Single Phase Induction Motors

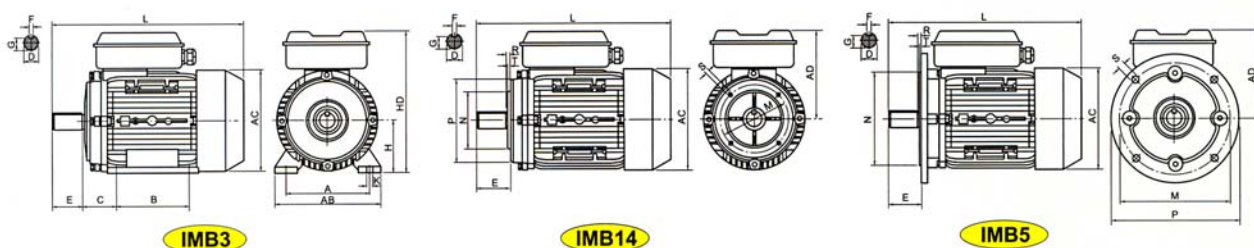
Performance Data 240 Volt, 50 Hz, Capacitor Start, Capacitor Run (ML series) 2 Pole – 3000 RPM

Rated Power (kW)	Frame Size	Current (Amps) I_N	Speed (RPM)	Efficiency (%)	Power Factor (p.u.)	Starting Torque $\frac{T_{st}}{T_N}$	Break-down Torque $\frac{T_b}{T_N}$	Starting Current I_{st}	Approx net Weight IM1001 Kg
0.37	71	2.5	2800	67	0.92	2.3	1.8	5.9	7
0.55	71	3.6	2800	70	0.92	2.5	1.8	5.4	8
0.75	80	4.7	2800	72	0.92	2.5	1.8	5.8	8.5
1.1	80	6.5	2800	75	0.95	2.5	1.8	5.7	9.5
1.5	90S	8.7	2800	76	0.95	2.5	1.8	5.8	12.5
2.2	90L	12.5	2800	77	0.95	2.5	1.8	5.8	14
3	100L	16.7	2800	79	0.95	2.5	1.7	6.0	20.5

4 Pole – 1500 RPM

Rated Power (kW)	Frame Size	Current (Amps) I_N	Speed (RPM)	Efficiency (%)	Power Factor (p.u.)	Starting Torque $\frac{T_{st}}{T_N}$	Break-down Torque $\frac{T_b}{I_N}$	Starting Current I_{st}	Approx net Weight IM1001 Kg
0.18	63	1.4	1400	60	0.92	2.3	1.7	5.9	5
0.37	71	2.6	1400	65	0.92	2.3	1.7	6.6	8.1
0.55	80	3.7	1400	68	0.92	2.5	1.7	5.3	8.9
0.75	80	4.8	1400	71	0.92	2.5	1.7	5.8	9.6
1.1	90S	6.6	1400	73	0.95	2.5	1.7	5.6	13
1.5	90L	8.8	1400	75	0.95	2.5	1.7	5.8	16
2.2	100L	12.8	1400	76	0.95	2.5	1.7	5.8	23
3	100L	17.1	1400	77	0.95	2.5	1.7	5.9	27

Dimensions: Capacitor Start, Capacitor Run (ML series)



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
71	112	90	45	14	30	5	11	71	7	85	70	105	0	M6	2.5	130	110	160	0	10	3.5	145	145	125	210	255
80	125	100	50	19	40	6	15.5	80	10	100	80	120	0	M6	3.0	165	130	200	0	12	3.5	160	165	135	240	295
90S	140	100	56	24	50	8	20	90	10	115	95	140	0	M8	3.0	165	130	200	0	12	3.5	180	185	145	270	335
90L	140	125	56	24	50	8	20	90	10	115	95	140	0	M8	3.0	165	130	200	0	12	3.5	180	185	145	270	360
100L	160	140	63	28	60	8	24	100	12	-	-	-	-	-	-	215	180	250	0	15	4.0	205	215	170	280	380

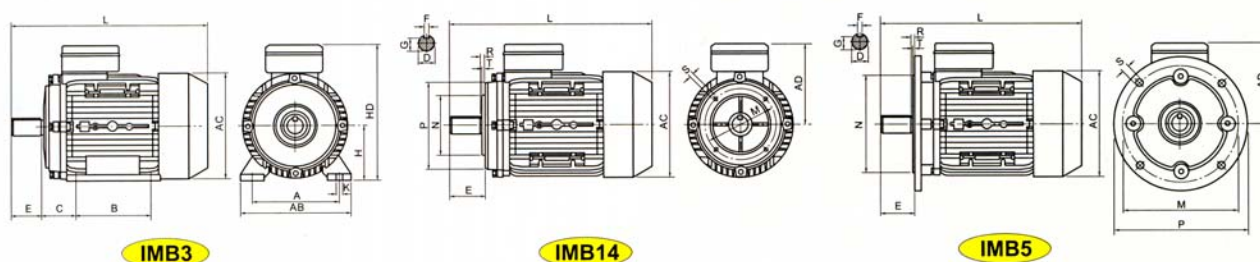


MONARCH - Single Phase Induction Motors

Performance Data 240 Volt, 50 Hz, Capacitor Start Run (MY series) 4 Pole – 1500 RPM

Rated Power (kW)	Frame Size	Current (Amps) I_N	Speed (RPM)	Efficiency (%)	Power Factor (p.u.)	Starting Torque $\frac{T_{st}}{T_N}$	Break-down Torque $\frac{T_b}{T_N}$	Starting Current I_{st}	Approx net Weight IM1001 Kg
0.37	71	2.7	1400	62	0.92	0.35	1.7	3.4	7
0.55	80	3.9	1400	64	0.92	0.35	1.7	3.5	9.5
0.75	80	5.0	1400	68	0.92	0.32	1.7	3.7	10
1.1	90S	6.8	1400	71	0.95	0.32	1.7	4.0	13
1.5	90L	9.0	1400	73	0.95	0.3	1.7	4.6	16

Dimensions: Capacitor Start Run (MY series)



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
63	100	80	40	11	23	4	8.5	63	7	75	60	90	0	M5	2.5	115	95	140	0	10	3.0	130	130	115	185	230
71	112	90	45	14	30	5	11	71	7	85	70	105	0	M6	2.5	130	110	160	0	10	3.5	145	145	125	205	255
80	125	100	50	19	40	6	15.5	80	10	100	80	120	0	M6	3.0	165	130	200	0	12	3.5	160	165	135	235	295
90S	140	100	56	24	50	8	20	90	10	115	95	140	0	M8	3.0	165	130	200	0	12	3.5	180	185	145	265	335
90L	140	125	56	24	50	8	20	90	10	115	95	140	0	M8	3.0	165	130	200	0	12	3.5	180	185	145	265	360

Bolt on feet – Multi-mount construction



TECO

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