

TEFC 3 Phase Squirrel Cage Induction Motors - Frame size 63 to 280M

eff2

Voltage : 415V ± 10%
 Frequency : 50Hz ± 5%
 Combined Variation : ± 10%

Ambient : 50°C
 Duty : S1 (Continuous)

Ins. Class : F
 Temp. Rise : B
 Protection : IP55

Table-1

3000 rpm (2-Pole)

Rated Output		Frame size IEC	Type Ref. B3 Construction	Operating Characteristics at Rated output									With DOL Starting		Pullout Toque to Rated Toque Ratio	Rotor GD ² kgm ²	Net Weight B3 Constr. kg
				Speed RPM	Current Amps.	Rated Torque Kg-m.	Power Factor			%Efficiency eff2			Starting Current to Rated Current Ratio	Starting Torque to Rated Torque Ratio			
kW	HP	FL	3/4L				1/2L	FL	3/4L	1/2L							
0.18	0.25	63	MA063213	2720	0.57	0.064	0.76	0.66	0.52	58.0	57.0	52.0	3.2	2.7	3.0	0.00085	5
0.25	0.35	63	MA063233	2720	0.66	0.090	0.82	0.75	0.63	65.0	60.0	54.0	3.5	2.4	2.6	0.00099	5
0.37	0.50	71	MA071213	2790	0.91	0.130	0.80	0.72	0.60	71.0	68.0	62.0	4.0	2.3	2.8	0.0015	6
0.55	0.75	71	MA071233	2805	1.31	0.190	0.79	0.72	0.58	74.0	74.0	71.0	5.0	2.7	3.0	0.0019	7
0.75	1.0	80	MA080213	2830	1.65	0.258	0.82	0.74	0.62	77.0	76.0	72.0	5.0	2.5	2.8	0.0037	10
1.1	1.5	80	MA080233	2840	2.35	0.377	0.82	0.75	0.63	79.0	79.0	76.0	5.9	2.7	3.1	0.0051	11
1.5	2.0	90S	MA09S233	2825	3.00	0.517	0.86	0.83	0.76	80.6	78.0	74.0	5.5	2.7	3.0	0.0071	15
2.2	3.0	90L	MA09L253	2830	4.36	0.757	0.85	0.82	0.74	82.5	80.0	76.0	6.0	3.0	3.0	0.0093	18
3.7	5.0	100L	MA10L213	2900	7.05	1.24	0.86	0.80	0.70	85.0	83.0	78.0	6.5	2.8	3.0	0.0188	24
5.5	7.5	132S	MA13S233	2920	10.1	1.84	0.88	0.85	0.77	86.0	85.0	80.0	6.5	2.3	3.0	0.0690	62
7.5	10	132S	MA13S253	2920	13.7	2.50	0.88	0.84	0.76	87.0	86.0	82.0	6.5	2.5	3.0	0.0820	65
9.3	12.5	132M	MA13M293	2920	16.5	3.10	0.89	0.85	0.76	88.0	86.0	83.0	6.5	2.4	2.9	0.0980	77
11	15	160M	MA16M213	2920	19.3	3.67	0.89	0.88	0.85	89.0	88.0	86.0	5.8	2.0	3.0	0.134	95
15	20	160M	MA16M253	2920	25.9	5.00	0.90	0.89	0.85	89.5	89.0	87.0	6.0	2.0	3.0	0.171	112
18.5	25	160L	MA16L273	2920	31.6	6.17	0.90	0.88	0.86	90.5	90.0	88.0	6.5	2.0	3.0	0.225	123
22	30	180M	MA18M213	2930	37.5	7.31	0.89	0.87	0.80	91.5	90.5	88.0	6.5	2.2	2.7	0.30	168
30	40	200L	MA20L233	2955	51.2	9.89	0.88	0.85	0.79	92.6	92.0	89.5	6.5	2.5	2.5	0.52	253
37	50	200L	MA20L253	2955	62.9	12.20	0.88	0.85	0.79	93.0	92.5	91.0	6.5	2.5	2.5	0.61	274
45	60	225M	MA22M233	2960	74.5	14.80	0.90	0.87	0.83	93.5	93.0	91.0	6.0	2.5	2.5	1.04	348
55	75	250M	MA25M213	2960	89.0	18.10	0.92	0.91	0.86	93.3	92.8	91.5	6.0	2.1	2.6	2.11	523
75	100	280S	MA28S213	2970	122	24.60	0.91	0.89	0.84	94.0	93.0	91.0	6.0	1.9	2.7	2.63	626
90	120	280M	MA28M233	2970	145	29.50	0.92	0.90	0.85	94.0	93.0	91.0	6.0	1.9	2.7	3.01	669

Note: •Efficiency class 'eff2' will be punched on the nameplates as per IS:12615-2004 (Rev.1) for ratings from 0.37kW to 90kW
 •All performance values are subject to tolerance as per IS:325 •Efficiency measurements are without seals