

### TEFC 3 Phase Squirrel Cage Induction Motors - Frame size 71 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-3**

**1000 rpm (6-Pole)**

Rated Output		Frame size	Type Ref. B3 Construction	Operating Characteristics at Rated output									With DOL Starting		Pullout Toque to Rated Toque Ratio	Rotor GD <sup>2</sup> kgm <sup>2</sup>	Net Weight B3 Constr. kg
				Speed RPM	Current Amps.	Rated Torque Kg-m.	Power Factor			%Efficiency <b>eff2</b>			Starting Current to Rated Current Ratio	Starting Torque to Rated Torque Ratio			
kW	HP	IEC	FL				3/4L	1/2L	FL	3/4L	1/2L						
0.25	0.35	71	MA071633	875	0.8	0.278	0.70	0.60	0.48	62.0	62.0	55.0	2.6	2.0	2.3	0.0038	7
0.37	0.5	80	MA080613	910	1.10	0.396	0.70	0.60	0.48	68.0	66.0	61.0	3.0	2.1	2.3	0.0060	10
0.55	0.75	80	MA080633	915	1.56	0.590	0.71	0.62	0.48	69.0	70.0	64.0	4.0	2.2	2.5	0.0084	11
0.75	1.0	90S	MA09S633	925	2.00	0.790	0.72	0.61	0.50	73.0	70.0	69.0	3.4	2.0	2.5	0.0122	14
1.1	1.5	90L	MA09L653	930	2.80	1.15	0.72	0.61	0.50	76.0	74.0	72.0	4.0	2.1	2.6	0.0160	17
1.5	2.0	100L	MA10L633	935	3.76	1.56	0.72	0.64	0.52	77.0	75.0	72.0	3.9	2.0	2.5	0.025	22
2.2	3.0	112M	MA11M633	935	5.00	2.29	0.77	0.68	0.55	80.0	80.0	74.0	5.0	2.0	2.5	0.050	29
3.7	5.0	132S	MA13S633	950	8.00	3.80	0.76	0.63	0.49	85.0	84.0	82.0	5.5	2.0	2.5	0.130	60
5.5	7.5	132M	MA13M673	960	11.5	5.58	0.78	0.71	0.59	85.0	83.0	78.0	5.5	2.5	2.75	0.183	76
7.5	10	160M	MA16M633	960	14.8	7.61	0.80	0.74	0.64	88.0	88.0	86.0	5.4	2.0	2.5	0.276	103
9.3	12.5	160L	MA16L663	960	18.4	9.44	0.80	0.74	0.64	88.0	88.0	87.0	5.5	2.1	2.5	0.34	113
11	15	160L	MA16L673	965	21.6	11.1	0.80	0.77	0.70	88.5	88.0	87.0	6.0	2.0	2.5	0.40	123
15	20	180L	MA18L613	965	29.0	15.1	0.80	0.75	0.62	90.0	90.0	87.0	5.5	2.6	2.3	0.68	175
18.5	25	200L	MA20L613	975	34.0	18.5	0.83	0.78	0.70	91.0	91.0	88.0	5.8	2.6	2.3	1.00	241
22	30	200L	MA20L633	975	40.0	22.0	0.84	0.78	0.70	91.2	91.0	88.0	5.8	2.6	2.3	1.20	254
30	40	225M	MA22M623	975	52.3	30.0	0.87	0.84	0.76	91.8	91.0	88.0	6.0	2.5	2.2	2.10	336
37	50	250M	MA25M603	975	63.5	37.0	0.88	0.85	0.82	92.5	92.5	91.0	6.0	2.5	2.3	3.51	458
45	60	280S	MA28S613	980	80.7	44.7	0.83	0.80	0.70	93.5	92.5	92.0	6.0	2.5	2.3	5.11	573
55	75	280M	MA28M633	980	96.0	54.7	0.85	0.81	0.72	93.5	93.0	92.0	6.0	2.3	2.3	6.16	620

Note: •Efficiency class 'eff2' will be punched on the nameplates as per IS:12615-2004 (Rev.1) for ratings from 0.37kW to 55kW  
 •All performance values are subject to tolerance as per IS:325 •Efficiency measurements are without seals