

TEFC 3 Phase Squirrel Cage Induction Motors - Frame size 71 to 355L

eff1

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

Ambient : 50°C
 Duty : S1 (Continuous)

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

Table-5

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 eff1			Starting Current to Rated Current Ratio	Starting Torque to Rated Torque Ratio			
kW	HP	FL	3/4L				1/2L	FL	3/4L	1/2L							
0.37	0.50	71	MH0712A3	2800	0.97	0.130	0.74	0.68	0.60	72.0	72.0	66.0	5.5	2.6	3.0	0.0019	7
0.55	0.75	71	MH071233	2805	1.29	0.190	0.79	0.72	0.58	75.0	75.0	72.0	5.0	2.7	3.0	0.0019	7
0.75	1.0	80	MH080213	2830	1.62	0.256	0.82	0.74	0.62	78.5	77.5	74.0	5.0	2.5	2.8	0.0037	10
1.1	1.5	80	MH080233	2840	2.25	0.377	0.82	0.75	0.63	82.8	82.8	78.0	5.9	2.7	3.0	0.0051	11
1.5	2.0	90S	MH09S243	2840	3.00	0.514	0.82	0.78	0.68	84.1	84.1	81.0	6.5	3.3	3.5	0.0091	17
2.2	3.0	90L	MH09L273	2840	4.40	0.755	0.82	0.78	0.68	85.6	85.6	84.0	6.5	3.3	3.5	0.0113	20
3.7	5.0	100L	MH10L233	2890	6.84	1.24	0.86	0.84	0.76	87.5	87.5	85.5	7.0	3.0	3.3	0.0212	26
5.5	7.5	132S	MH13S253	2935	9.70	1.83	0.89	0.85	0.77	88.6	88.6	84.0	7.0	2.5	3.0	0.0820	65
7.5	10.0	132S	MH13S293	2935	13.1	2.49	0.89	0.85	0.77	89.5	89.5	84.5	7.0	2.5	3.0	0.0980	77
9.3	12.5	160M	MH16M233	2930	16.2	3.09	0.89	0.85	0.76	90.0	90.0	86.0	7.0	2.4	2.9	0.1500	105
11	15.0	160M	MH16M253	2930	19.0	3.66	0.89	0.86	0.82	90.5	90.5	87.5	7.0	2.3	3.0	0.171	112
15	20.0	160M	MH16M263	2930	25.7	4.99	0.89	0.88	0.82	91.3	91.3	88.0	7.0	2.3	2.8	0.203	120
18.5	25.0	160L	MH16L293	2930	31.2	6.15	0.90	0.89	0.86	91.8	91.8	90.0	7.0	2.4	3.0	0.268	137
22	30.0	180M	MH18M233	2935	37.5	7.70	0.89	0.88	0.83	92.2	92.2	90.0	7.0	2.3	2.7	0.34	177
30	40.0	200L	MH20L2A3	2955	50.5	9.89	0.89	0.86	0.80	93.0	93.0	91.0	7.0	2.5	2.6	0.61	274
37	50.0	200L	MH20L253	2955	62.0	12.2	0.89	0.86	0.80	93.3	93.3	91.5	7.0	2.4	2.5	0.61	274
45	60.0	225M	MH22M253	2970	75.0	14.8	0.89	0.87	0.83	93.7	93.7	92.0	7.0	2.3	2.7	1.13	353
55	75.0	250M	MH25M233	2965	88.5	18.1	0.92	0.91	0.86	94.0	94.0	92.0	6.8	2.3	2.7	2.60	550
75	100	280S	MH28S233	2970	121	24.6	0.91	0.89	0.84	94.6	94.6	92.0	7.0	2.2	2.8	3.01	669
90	120	280M	MH28M253	2970	143	29.5	0.89	0.90	0.88	95.0	95.0	92.0	7.0	2.2	2.8	3.42	750
110	150	315S	MH31S233	2982	177	35.9	0.91	0.87	0.79	95.0	95.0	92.5	7.0	2.2	2.70	5.0	855
125	170	315M	MH31M2A3	2982	201	40.8	0.91	0.87	0.78	95.3	94.4	92.5	7.0	2.2	2.70	5.0	940
132	180	315M	MH31M233	2982	212	43.1	0.91	0.87	0.79	95.3	94.4	92.5	7.0	2.2	2.70	5.0	940
150	200	315L	MH31L2A3	2982	243	49.0	0.90	0.85	0.77	95.6	94.8	93.8	7.0	2.2	2.70	6.2	1100
160	215	315L	MH31L253	2982	259	52.3	0.90	0.86	0.79	95.6	95.0	94.0	7.0	2.2	2.70	6.2	1100
180	240	315L	MH31L2B3	2982	291	58.8	0.90	0.86	0.79	95.6	95.2	94.3	7.0	2.2	2.70	7.7	1390
*200	270	315L	MH31L273	2982	323	65.3	0.90	0.86	0.79	95.7	95.4	94.5	7.0	2.2	2.70	7.7	1390
*250	335	355L	MH35L213	2985	398	81.6	0.91	0.89	0.83	96.0	95.8	95.0	7.0	1.6	2.40	12.0	1680
*315	425	355L	MH35L233	2985	500	102.8	0.91	0.89	0.83	96.2	96.1	95.2	7.0	1.6	2.40	14.7	1870

Note : •Efficiency class 'eff1' will be punched on the nameplates as per IS:12615-2004 (Rev.1) for ratings from 0.37kW to 160kW

•All performance values are subject to tolerance as per IS:325. •Efficiency measurements are without seals • (*) These ratings are suitable for ambient temp 45°C