

MOTORS FOR HARSH AREAS

IMPROVED EFFICIENCY

INCREASED SAFETY MOTORS Ex(e) TEFC 3 Phase Squirrel Cage Induction Motors - Frame size 63 to 280M

eff2

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

Ambient : 45°C
Duty : S1 (Continuous)
Temp. Class : T1, T2 & T3

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

Table-ME-2P

3000 rpm (2-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 ² kgm ²	Net Weight B3 Constr. Kg	Time tE for Temp. class T3 Sec
					Speed RPM	Current Amps.	Rated Torque Kg-m.	Power Factor			%Efficiency eff2			Starting Current to Rated Current Ratio				
kW	HP	IEC	FL	3/4L				1/2L	FL	3/4L	1/2L							
0.18	0.25	63	ME063213	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	20
0.25	0.35	63	ME063233	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	20
0.37	0.50	71	ME071213	2790	0.95	0.130	0.80	0.72	0.60	68.0	65.0	61.0	4.0	2.3	2.8	0.0015	6	15
0.55	0.75	71	ME071233	2805	1.33	0.190	0.79	0.72	0.58	73.0	73.0	71.0	5.0	2.7	3.0	0.0019	7	15
0.75	1.0	80	ME080213	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	12
1.1	1.5	80	ME080233	2840	2.35	0.377	0.82	0.75	0.63	79.0	79.0	76.0	5.9	2.7	3.0	0.0051	11	12
1.5	2.0	90S	ME09S233	2825	3.0	0.517	0.86	0.83	0.76	80.6	78.0	74.0	5.5	2.7	3.0	0.0071	19	10
2.2	3.0	90L	ME09L253	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	23	10
3.7	5.0	100L	ME10L213	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	33	8
5.5	7.5	132S	ME13S233	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	65	10
7.5	10.0	132S	ME13S253	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	69	10
9.3	12.5	132M	ME13M293	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	10
11	15	160M	ME16M233	2920	19.3	3.67	0.89	0.88	0.85	89.0	88.0	86.0	5.8	2.0	3.0	0.150	108	8
15	20	160M	ME16M263	2920	25.9	5.00	0.90	0.89	0.85	89.5	89.0	87.0	6.0	2.0	3.0	0.203	122	8
18.5	25	160L	ME16L293	2920	31.6	6.17	0.90	0.88	0.86	90.5	90.0	88.0	6.5	2.0	3.0	0.268	141	7
22	30	180M	ME18M233	2930	37.5	7.31	0.89	0.87	0.80	91.5	90.5	88.0	6.5	2.2	2.7	0.34	177	8
30	40	200L	ME20L253	2955	51.2	9.89	0.88	0.85	0.79	92.6	92.0	89.5	6.5	2.5	2.5	0.61	274	8
37	50	200L	ME20L273	2955	62.9	12.2	0.88	0.85	0.79	93.0	92.5	91.0	6.5	2.5	2.5	0.64	285	7
45	60	225M	ME22M253	2960	74.5	14.8	0.90	0.87	0.83	93.3	92.8	91.0	6.0	2.5	2.5	1.31	361	12
55	75	250M	ME25M213	2960	89.0	18.1	0.92	0.91	0.86	93.3	92.8	91.5	6.5	2.1	2.6	2.11	523	12
*75	100	280M	ME28M233	2970	122	24.6	0.91	0.89	0.84	94.0	93.0	91.0	6.0	1.9	2.7	3.01	728	12
90	120	280M	ME28M253	2970	145	29.5	0.92	0.90	0.85	94.0	93.0	91.0	6.0	1.9	2.7	3.42	750	12

Note : • All motors conform to Efficiency class 'eff2' as per IS : 12615-2004 (Rev-1) • All performance value are subject to IS tolerance as per IS : 325.
• Efficiency measurement are without seals. • (*) These motors are offered in higher frame size with 'eff2' efficiency level.