

### 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-4P

1500 rpm (4-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	Time tE for Temp. class T3 Sec
				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							
0.12	0.16	63	ME063413	1330	0.41	0.088	0.75	0.65	0.50	54.0	48.0	40.0	2.4	1.9	2.3	0.0014	5	20
0.18	0.25	63	ME063433	1350	0.56	0.130	0.75	0.65	0.50	60.0	56.0	50.0	3.0	2.0	2.3	0.0016	5	20
0.25	0.35	71	ME071413	1370	0.72	0.178	0.76	0.63	0.51	64.0	62.0	55.0	3.0	2.0	2.5	0.0024	6	15
0.37	0.50	71	ME071433	1360	1.02	0.265	0.71	0.62	0.50	71.0	70.0	64.0	3.4	2.3	2.5	0.0033	7	15
0.55	0.75	80	ME080413	1405	1.30	0.381	0.81	0.70	0.56	74.0	71.0	67.0	4.0	2.4	2.6	0.0061	10	15
0.75	1.0	80	ME080433	1405	1.75	0.52	0.78	0.70	0.58	77.0	76.0	72.0	4.5	2.8	3.0	0.0072	11	15
1.1	1.5	90S	ME06S433	1410	2.45	0.76	0.80	0.73	0.61	78.0	77.0	72.0	4.2	2.3	2.7	0.012	19	15
1.5	2.0	90L	ME09L453	1410	3.25	1.03	0.80	0.72	0.58	80.0	79.0	75.0	4.8	2.5	3.0	0.016	23	15
2.2	3.0	100L	ME10L433	1420	4.55	1.51	0.82	0.69	0.53	82.0	80.0	76.0	5.7	2.5	3.0	0.021	31	15
3.7	5.0	112M	ME11M433	1430	7.30	2.52	0.83	0.76	0.65	85.0	85.0	82.0	6.0	2.6	3.0	0.053	46	8
5.5	7.5	132S	ME13S453	1445	10.4	3.71	0.85	0.80	0.68	86.0	85.0	83.0	6.0	2.2	3.0	0.127	66	8
7.5	10.0	132M	ME13M483	1445	14.5	5.06	0.83	0.78	0.68	87.0	87.0	85.0	6.0	2.5	3.0	0.150	78	8
9.3	12.5	160M	ME16M4C3	1450	17.1	6.25	0.86	0.82	0.77	88.0	88.0	87.0	6.0	2.0	2.5	0.177	100	8
11	15	160M	ME16M4F3	1450	20.5	7.39	0.84	0.81	0.76	89.0	89.0	86.0	6.0	2.1	2.5	0.193	107	8
15	20	160L	ME16L4P3	1450	27.6	10.08	0.84	0.83	0.79	90.2	90.5	90.0	6.0	2.1	2.5	0.265	132	8
*18.5	25	180L	ME18L473	1460	33.2	12.30	0.85	0.82	0.72	91.2	91.2	90.0	6.0	2.4	2.5	0.54	188	10
22	30	180L	ME18L493	1460	39.0	14.70	0.86	0.82	0.72	91.8	91.5	90.0	6.0	2.4	2.5	0.59	195	10
30	40	200L	ME20L433	1465	51.5	19.90	0.88	0.84	0.77	92.0	92.0	90.0	6.0	2.6	2.5	0.86	261	10
37	50	225S	ME20S413	1470	64.0	24.50	0.87	0.83	0.75	93.0	93.0	91.0	6.0	2.5	2.5	1.32	326	8
45	60	225M	ME22M433	1470	76.5	29.80	0.88	0.84	0.75	93.2	93.2	91.0	6.0	2.5	2.5	1.60	362	10
55	75	250M	ME25M413	1475	94.0	36.30	0.87	0.85	0.78	93.8	93.3	91.5	6.0	2.5	2.6	2.83	530	12
*75	100	280M	ME28S433	1480	124	49.40	0.89	0.89	0.83	94.2	94.0	93.0	6.0	2.2	2.5	6.00	703	10
90	120	280M	ME28M453	1480	149	59.20	0.89	0.87	0.81	94.7	94.3	93.2	6.0	2.2	2.5	6.63	735	10

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.