

INCREASED SAFETY MOTORS Ex(e) TEFC 3 Phase Squirrel Cage Induction Motors - Frame size 71 to 280S/M

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-6P

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 ² kgm ²	Net Weight B3 Constrn. 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	Starting Torque to Rated Torque Ratio				
kW	HP	IEC	FL				3/4L	1/2L	FL	3/4L	1/2L							
0.25	0.35	71	ME071633	875	0.81	0.278	0.70	0.60	0.48	61.0	61.0	52.0	2.6	2.0	2.3	0.0038	7	15
0.37	0.50	80	ME080613	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	15
0.55	0.75	80	ME080633	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	15
0.75	1.0	90S	ME09S633	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	18	15
1.1	1.5	90L	ME09L653	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	23	15
1.5	2.0	100L	ME10L633	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	31	15
2.2	3.0	112M	ME11M633	935	5.05	2.29	0.77	0.68	0.55	79.0	79.0	74.0	5.0	2.0	2.5	0.050	43	15
3.7	5.0	132S	ME13S633	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	62	10
5.5	7.5	132M	ME13M673	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	79	10
7.5	10.0	160M	ME16M633	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	102	12
9.3	12.5	160L	ME16L633	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	119	12
11	15	160L	ME16L673	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	129	12
15	20	180L	ME18L613	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	10
18.5	25	200L	ME20L613	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	229	10
22	30	200L	ME20L633	975	40.5	22.0	0.83	0.78	0.70	91.0	91.0	88.0	5.8	2.6	2.3	1.20	246	10
30	40	225M	ME22M623	975	52.3	30.0	0.87	0.84	0.76	91.8	91.0	88.0	6.0	2.3	2.2	2.1	334	12
37	50	250M	ME25M603	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	515	12
45	60	280S	ME28S613	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	592	12
55	75	280M	ME28M633	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	640	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.