INCREASED SAFETY MOTORS Ex(e)
TEFC 3 Phase Squirrel Cage Induction Motors - Frame size 90 to 355L

eff1

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-MI-8P **750 rpm (8-Pole)**

Rated Output		Frame size	Type Ref. B3 Construction	Operating Characteristics at Rated output									With DOL Starting		Pullout Toque to Rated Toque Ratio	Rotor GD² kgm²	Net Weight B3 Constrn. Kg	Time tE for Temp. class T3 Sec
				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	IEC					FL	3/4L	1/2L	FL	3/4L	1/2L						
0.37	0.50	90S	MI09S813	700	1.22	0.515	0.63	0.52	0.41	66.8	60.0	52.0	2.7	1.8	2.1	0.011	17	15
0.55	0.75	90L	MI09L853	690	1.71	0.776	0.63	0.53	0.43	71.1	67.0	62.0	2.9	2.0	2.4	0.014	20	15
0.75	1.0	100L	MI10L813	685	1.94	1.07	0.73	0.63	0.50	73.8	73.8	67.0	3.0	1.7	2.0	0.023	28	15
1.1	1.5	100L	MI10L833	690	2.83	1.55	0.71	0.62	0.48	76.2	76.2	73.0	3.3	1.9	2.3	0.027	32	15
1.5	2.0	112M	MI11M813	705	3.82	2.07	0.70	0.62	0.50	77.9	77.9	75.0	3.8	1.7	2.2	0.051	38	15
2.2	3.0	132S	MI13S813	710	5.35	3.02	0.71	0.60	0.46	80.5	80.5	78.0	3.7	1.6	2.2	0.099	57	10
3.7	5.0	160M	MI16M813	720	8.00	5.01	0.78	0.74	0.65	83.0	83.0	78.0	4.4	1.8	2.0	0.217	91	15
5.5	7.5	160M	MI16M833	720	11.5	7.44	0.78	0.74	0.65	85.1	85.1	82.0	4.8	1.9	2.2	0.299	106	15
7.5	10.0	160L	MI16L873	715	15.5	10.2	0.78	0.74	0.65	86.4	86.4	84.0	5.5	2.1	2.2	0.40	130	15
9.3	12.5	180M	MI18M813	720	18.8	12.6	0.79	0.74	0.64	87.3	87.3	85.0	5.0	2.1	2.2	0.62	153	15
11	15	180L	MI18L833	720	22.0	14.9	0.79	0.74	0.64	88.1	88.1	87.0	5.0	2.1	2.2	0.72	184	15
15	20	200L	MI20L833	720	28.6	20.3	0.82	0.79	0.71	89.0	89.0	88.0	6.0	2.5	2.3	1.32	287	10
18.5	25	225S	MI22S823	725	36.3	24.9	0.79	0.77	0.69	89.8	89.8	88.0	5.5	2.1	2.2	2.09	320	12
22	30	225M	MI22M833	725	43.0	29.6	0.79	0.77	0.69	90.2	90.2	88.0	5.5	2.1	2.2	2.41	331	12
30	40	250M	MI25M813	730	55.5	40.0	0.82	0.78	0.68	91.5	91.5	89.0	6.0	2.5	2.2	3.72	528	12
37	50	280S	MI28S823	730	71.0	49.4	0.79	0.75	0.65	92.0	92.0	90.0	5.5	2.2	2.2	5.83	628	12
45	60	280M	MI28M853	730	86.0	60.0	0.79	0.75	0.65	92.4	92.4	90.0	5.5	2.2	2.2	6.86	684	12
55	75	315S	MI31S813	740	105	72.4	0.78	0.73	0.64	93.0	92.5	90.5	5.5	2.1	2.4	10.70	945	16
75	100	315M	MI31M833	740	143	98.7	0.78	0.73	0.64	93.5	93.5	92.0	5.5	2.1	2.4	12.40	1010	16
90	120	315M	MI31M853	740	171	118.5	0.78	0.73	0.64	94.0	94.0	93.0	5.5	2.1	2.4	15.50	1120	16
110	150	315L	MI31L873	740	208	145	0.78	0.73	0.64	94.3	94.0	93.0	5.5	2.1	2.4	18.00	1300	16
125	170	315L	MI31L8A3	740	236	164.5	0.78	0.73	0.64	94.6	94.4	93.6	5.5	2.1	2.4	21.50	1425	16
**132	180	315L	MI31L893	740	248	174	0.78	0.73	0.64	94.8	94.7	94.0	5.5	2.1	2.4	21.50	1425	16
150	200	355L	MI35L813	740	282	197.4	0.78	0.70	0.60	95.0	95.0	93.0	5.5	1.8	2.2	28.70	1670	10
160	215	355L	MI35L8A3	740	300	210.6	0.78	0.70	0.60	95.0	95.0	93.0	5.5	1.8	2.2	35.50	1780	10
180	240	355L	MI35L8B3	740	337	237	0.78	0.70	0.60	95.2	95.2	93.2	5.5	1.8	2.2	35.50	1780	10
**200	270	355L	MI35L833	740	375	263.2	0.78	0.70	0.60	95.3	95.3	93.3	5.5	1.8	2.2	35.50	1780	10

Note : • Efficiency class 'eff1' will be punched on the nameplae as per IS : 12615-2004 (Rev-1) from 0.37 kW to 160kW • All performance value are subject to IS tolerance as per IS : 325.
• Efficiency measurement are without seals.
(**) Temperature rise limited to class F.