

FLAME PROOF MOTORS Ex(d) TEFC 3 Phase Squirrel Cage Induction Motors - Frame size 80 to 280S/M

eff2

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

Ambient : 45°C
Duty : S1 (Continuous)

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

Table-MD-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 GD ² kgm ²	Net Weight B3 Constrn. Kg
					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	BBL	FL				3/4L	1/2L	FL	3/4L	1/2L						
*0.37	0.50	90L	MJ90	MD09L833	700	1.32	0.515	0.63	0.52	0.41	62.0	55.0	48.0	2.7	1.8	2.1	0.013	46
0.55	0.75	90L	MJ90	MD09L853	690	1.81	0.776	0.63	0.5	0.43	67.0	62.0	58.0	2.9	2.0	2.4	0.014	48
0.75	1.0	100L	MJ100	MD10L813	685	2.05	1.07	0.73	0.63	0.50	70.0	70.0	64.0	3.0	1.6	1.8	0.023	55
1.1	1.5	100L	MJ100	MD10L833	690	2.91	1.55	0.71	0.62	0.48	74.0	73.0	71.0	3.3	1.9	2.3	0.027	59
1.5	2.0	112M	MJ112	MD11M813	705	3.90	2.07	0.70	0.62	0.50	77.0	77.0	75.0	3.8	1.7	2.2	0.051	65
*2.2	3.0	132M	MJ132	MD13M813	710	5.5	3.02	0.71	0.60	0.46	78.0	78.0	75.0	3.7	1.6	2.0	0.099	100
3.7	5.0	160M	MJ160	MD16M813	720	8.10	5.01	0.78	0.74	0.65	82.0	82.0	78.0	4.4	1.8	2.0	0.217	137
5.5	7.5	160M	MJ160	MD16M833	715	11.6	7.49	0.78	0.74	0.65	84.5	84.5	82.0	4.8	1.9	2.2	0.299	151
7.5	10	160L	MJ160	MD16L873	710	15.6	10.29	0.78	0.74	0.65	86.0	84.0	82.0	5.5	2.1	2.2	0.40	167
*9.3	12.5	180L	MJ180	MD18L813	715	19.0	12.7	0.79	0.74	0.64	86.5	86.5	85.0	4.5	2.1	2.2	0.62	205
11	15	180L	MJ180	MD18L833	720	22.2	14.9	0.79	0.74	0.64	87.5	87.5	86.0	4.5	2.1	2.2	0.72	215
15	20	200L	MJ200	MD20L833	720	28.8	20.3	0.82	0.79	0.71	88.5	88.5	87.0	5.5	2.5	2.3	1.32	330
18.5	25	225S	MJ225	MD22S813	725	36.6	24.9	0.79	0.77	0.69	89.0	88.0	87.0	5.3	2.1	2.2	1.95	400
22	30	225M	MJ225	MD22M833	725	43.0	29.6	0.79	0.77	0.69	90.0	89.0	87.5	5.3	2.1	2.2	2.41	430
30	40	250M	MJ250	MD25M813	730	56.0	40.0	0.82	0.78	0.68	91.0	90.5	89.0	5.5	2.5	2.2	3.72	575
37	50	280S	MJ280	MD28S823	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	650
45	60	280M	MJ280	MD28M853	730	86.0	60.0	0.79	0.75	0.65	92.0	92.0	91.0	5.5	2.2	2.2	6.86	710

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 'eff1' efficiency level.