

FLAME PROOF MOTORS Ex(d) TEFC 3 Phase Squirrel Cage Induction Motors - Frame size 80 to 315L

eff1

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

Ambient : 45°C
Duty : S1 (Continuous)

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

Table-MJ-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 eff1			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	MJ09L833	700	1.22	0.515	0.63	0.52	0.41	66.8	60.0	52.0	2.7	1.8	2.1	0.013	46
0.55	0.75	90L	MJ90	MJ09L853	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	48
0.75	1.0	100L	MJ100	MJ10L813	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	55
1.1	1.5	100L	MJ100	MJ10L833	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	59
1.5	2.0	112M	MJ112	MJ11M813	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	65
*2.2	3.0	132M	MJ132	MJ13M813	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	100
3.7	5.0	160M	MJ160	MJ16M813	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	137
5.5	7.5	160M	MJ160	MJ16M833	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	151
7.5	10	160L	MJ160	MJ16L873	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	167
*9.3	12.5	180L	MJ180	MJ18L813	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	205
11	15	180L	MJ180	MJ18L833	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	215
15	20	200L	MJ200	MJ20L833	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	330
18.5	25	225S	MJ225	MJ22S823	725	36.3	24.9	0.79	0.77	0.69	89.8	89.8	88.0	5.5	2.1	2.2	2.10	419
22	30	225M	MJ225	MJ22M833	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	430
30	40	250M	MJ250	MJ25M813	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	575
37	50	280S	MJ280	MJ28S823	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	MJ28M853	730	86.0	60	0.79	0.75	0.65	92.4	92.4	90.0	5.5	2.2	2.2	6.86	710
55	75	315S	MJ315	MJ31S813	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
75	100	315M	MJ315	MJ31M833	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
90	120	315M	MJ315	MJ31M853	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
110	150	315L	MJ315	MJ31L873	740	208	145	0.78	0.73	0.64	94.3	94.0	93.0	5.5	2.1	2.4	18.00	1300
125	170	315L	MJ315	MJ31L8A3	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
132	180	315L	MJ315	MJ31L893	740	248	174	0.78	0.73	0.64	94.8	94.7	94.0	5.5	2.1	2.4	21.50	1425

Note: • All motors conform to efficiency class 'eff1' as per IS : 12615-2004 (Rev-1) • All performance value are subject to IS tolerance as per IS:325.
• Efficiency measurements are without seals.