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

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-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 GD² kgm²	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	80	MJ80	MJ080613	910	1.05	0.396	0.70	0.60	0.48	70.0	70.0	68.0	3.0	2.1	2.3	0.0060	31
0.55	0.75	80	MJ80	MJ080633	915	1.50	0.59	0.71	0.62	0.48	72.0	72.0	68.0	4.0	2.2	2.5	0.0084	32
*0.75	1.0	90L	MJ90	MJ09L633	925	1.93	0.79	0.72	0.61	0.50	75.0	75.0	72.0	3.4	2.0	2.5	0.0122	48
1.1	1.5	90L	MJ90	MJ09L653	930	2.75	1.15	0.72	0.61	0.50	77.3	77.3	73.0	4.0	2.0	2.6	0.0160	50
1.5	2.0	100L	MJ100	MJ10L633	935	3.60	1.56	0.72	0.60	0.52	79.6	79.6	75.0	4.5	2.0	2.5	0.025	60
2.2	3.0	112M	MJ112	MJ11M653	940	5.00	2.28	0.75	0.65	0.58	82.2	82.2	80.5	5.0	2.1	2.5	0.065	71
*3.7	5.0	132M	MJ132	MJ13M633	950	8.00	3.80	0.76	0.68	0.51	85.1	85.1	82.0	5.5	2.0	2.5	0.130	108
5.5	7.5	132M	MJ132	MJ13M693	960	11.2	5.58	0.78	0.71	0.60	86.8	81.8	79.0	6.0	2.5	2.7	0.193	115
7.5	10	160M	MJ160	MJ16M633	960	14.7	7.61	0.80	0.74	0.64	88.5	88.5	86.5	5.4	2.0	2.5	0.276	149
9.3	12.5	160L	MJ160	MJ16L663	960	18.1	9.44	0.80	0.74	0.64	89.3	89.3	88.0	5.5	2.1	2.5	0.34	160
11	15	160L	MJ160	MJ16L673	965	21.3	11.10	0.80	0.77	0.70	89.7	89.7	88.0	6.0	2.0	2.5	0.40	169
15	20	180L	MJ180	MJ18L613	965	28.8	15.10	0.80	0.75	0.62	90.5	90.5	89.0	5.5	2.6	2.3	0.68	210
18.5	25	200L	MJ200	MJ20L613	975	34.0	18.50	0.83	0.78	0.70	91.3	91.3	89.0	6.0	2.6	2.3	1.00	275
22	30	200L	MJ200	MJ20L633	975	40.5	22.00	0.82	0.77	0.69	91.8	91.8	90.0	6.0	2.6	2.3	1.20	290
30	40	225M	MJ225	MJ22M643	975	52.5	30.00	0.86	0.84	0.80	92.6	92.6	90.0	7.0	2.5	2.2	2.41	444
37	50	250M	MJ250	MJ25M633	980	63.0	36.80	0.88	0.85	0.70	93.0	93.0	92.0	6.0	2.5	2.3	3.72	573
45	60	280S	MJ280	MJ28S613	980	80.0	44.70	0.83	0.80	0.70	93.5	93.5	92.0	6.0	2.5	2.4	5.11	615
55	75	280M	MJ280	MJ28M633	980	96.0	54.70	0.85	0.83	0.73	93.8	93.8	92.0	6.0	2.4	2.4	6.16	665
75	100	315S	MJ315	MJ31S613	985	130	74.10	0.85	0.82	0.75	94.6	94.6	93.5	6.0	2.4	2.5	10.70	940
90	120	315M	MJ315	MJ31M633	987	157	88.80	0.84	0.81	0.72	94.8	94.8	93.5	6.0	2.3	2.5	12.40	1005
110	150	315M	MJ315	MJ31M653	988	189	108.4	0.85	0.82	0.73	95.0	95.0	94.0	6.0	2.3	2.5	15.50	1110
125	170	315L	MJ315	MJ31L6A3	988	215	123.2	0.85	0.82	0.73	95.2	95.2	94.0	6.0	2.3	2.5	18.00	1295
132	180	315L	MJ315	MJ31L673	988	227	130.0	0.85	0.82	0.73	95.2	95.2	94.0	6.0	2.3	2.5	18.00	1295
150	170	315L	MJ315	MJ31L6B3	988	258	147.8	0.85	0.82	0.73	95.2	95.2	94.0	6.0	2.3	2.5	21.50	1425
160	215	315L	MJ315	MJ31L693	988	275	158.0	0.85	0.82	0.73	95.2	95.2	94.0	6.0	2.3	2.5	21.50	1425

Note: • Efficiency class 'eff1' will be punched on the name plate as per IS : 12615-2004 (Rev-1) from 0.37kW to 160kW • 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.