

### NON SPARKING MOTORS Ex(nA) TEFC 3 Phase Squirrel Cage Induction Motors - Frame size 63 to 355L

eff1

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

Ambient : 50°C  
Duty : S1 (Continuous)

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

**Table-MS**

300 rpm (2-Pole)

1500 rpm (4-Pole)

1000 rpm (6-Pole)

750 rpm (8-Pole)

Rated Output		Frame size	Type Ref. B3 Construction
kW	HP		
0.37	0.50	71	MS0712A3
0.55	0.75	71	MS071233
0.75	1.0	80	MS080213
1.1	1.5	80	MS080233
1.5	2.0	90S	MS09S243
2.2	3.0	90L	MS09L273
3.7	5.0	100L	MS10L233
5.5	7.5	132S	MS13S253
7.5	10	132S	MS13S293
9.3	12.5	160M	MS16M233
11	15	160M	MS16M253
15	20	160M	MS16M263
18.5	25	160L	MS16L293
22	30	180M	MS18M233
30	40	200L	MS20L2A3
37	50	200L	MS20L253
45	60	225M	MS22M253
55	75	250M	MS25M233
75	100	280S	MS28S233
90	120	280M	MS28M253
110	150	315S	MS31S233
125	170	315M	MS31M1A3
132	180	315M	MS31M233
150	200	315L	MS31L2A3
160	215	315L	MS31L253
180	240	315L	MS31L2B3
*200	270	315L	MS31L273
*250	335	355L	MS35L213
*315	425	355L	MS35L233

Rated Output		Frame size	Type Ref. B3 Construction
kW	HP		
0.37	0.50	71	MS071433
0.55	0.75	80	MS08043
0.75	1.0	80	MS080453
1.1	1.5	90S	MS09S423
1.5	2.0	90L	MS09L473
2.2	3.0	100L	MS10L473
3.7	5.0	112M	MS11M473
5.5	7.5	132S	MS13S473
7.5	10	132M	MS13M443
9.3	12.5	160M	MS16M4C3
11	15	160M	MS16M4K3
15	20	160L	MS16L4B3
18.5	25	180M	MS18M473
22	30	180L	MS18L483
30	40	200L	MS20L453
37	50	225S	MS2S433
45	60	225M	MS22M453
55	75	250M	MS25M43
75	100	280S	MS28S413
90	120	280M	MS28M433
110	150	315S	MS31S413
125	170	315M	MS31M4A3
132	180	315M	MS31M43
150	200	315L	MS31L4A3
160	215	315L	MS31L453
180	240	315L	MS31L463
*200	270	315L	MS31L473
*250	335	355L	MS35L413
*315	422	355L	MS35L433

Rated Output		Frame size	Type Ref. B3 Construction
kW	HP		
0.37	0.50	80	MS080613
0.55	0.75	80	MS080633
0.75	1.0	90S	MS09S633
1.1	1.5	90L	MS09L653
1.5	2.0	100L	MS10L633
2.2	3.0	112M	MS11M653
3.7	5.0	132S	MS13S633
5.5	7.5	132M	MS13M693
7.5	10	160M	MS16M633
9.3	12.5	160L	MS16L663
11	15	160L	MS16L673
15	20	180L	MS18L613
18.5	25	200L	MS20L613
22	30	200L	MS20L633
30	40	225M	MS22M643
37	50	250M	MS25M633
45	60	280S	MS28S613
55	75	280M	MS28M633
75	100	315S	MS31S613
90	120	315M	MS31M633
110	150	315M	MS31M653
125	170	315L	MS31L6A3
132	180	315L	MS31L673
150	200	315L	MS31L6B3
160	215	315L	MS31L693
180	240	355L	MS35L6A3
200	270	355L	MS35L613
250	335	355L	MS35L633

Rated Output		Frame size	Type Ref. B3 Construction
kW	HP		
0.37	0.50	90S	MS09S813
0.55	0.75	90L	MS09L853
0.75	1.0	100L	MS10L813
1.1	1.5	100L	MS10L833
1.5	2.0	112M	MS11M813
2.2	3.0	132S	MS13S813
3.7	5.0	160M	MS16M813
5.5	7.5	160M	MS16M83
7.5	10	160L	MS16L873
9.3	12.5	180M	MS18M813
11	15	180L	MS18L83
15	20	200L	MS20L83
18.5	25	225S	MS22S823
22	30	225M	MS2M83
30	40	250M	MS25M813
37	50	280S	MS28S823
45	60	280M	MS28M853
55	75	315S	MS31S813
75	100	315M	MS31M83
90	120	315M	MS31M853
110	150	315L	MS31L873
125	170	315L	MS31L8A3
132	180	315L	MS31L893
150	200	355L	MS35L8A3
160	215	355L	MS35L813
180	240	355L	MS35L8B3
200	270	355L	MS35L833

Note : All performance value are subject to IS tolerance as per IS : 325 1996 Efficiency measurement are without seals. (\*) These ratings are suitable for ambient temp of 45°C.