

Cast iron motors according to Indian standard

Technical data for totally enclosed squirrel cage three phase motors

IP 55, IC 411; Insulation class F, temperature rise class B, ambient temperature 50°C

Output kW	Motor type	Product code	Speed r/min	Efficiency, IEC 60034-2 1996		Power factor cos φ 100%	Current		Torque			Moment of inertia J=1/4GD ² kgm ²	Weight Foot-mounted kg	Sound pressure level dB(A)	
				Full load 100%	3/4 load 75 %		I _N A	I _s /I _N	T _N Nm	T _s /T _N	T _{max} /T _N				
3000 r/min = 2 poles															
415 V 50 Hz															
0.37	M3BA	71 A	3GBA 071 311-••B	2740	72.7	72.0	0.84	0.9	4.0	1.29	2.2	3.0	0.00039	11	58
0.55	M3BA	71 B	3GBA 071 312-••B	2755	77.2	78.4	0.82	1.2	4.7	1.9	2.7	2.8	0.00051	11	58
0.75	M3BA	80 A	3GBA 081 311-••B	2840	77.0	77.8	0.82	1.6	3.7	2.52	2.6	3.4	0.0008	14	60
1.1	M3BA	80 B	3GBA 081 312-••B	2825	82.8	82.9	0.81	2.4	5.7	3.7	2.9	3.0	0.00101	16	60
1.5	M3BA	90 L	3GBA 091 312-••B	2890	85.8	86.7	0.89	2.8	6.8	4.9	2.6	3.2	0.00254	24	63
2.2	M3BA	90 LB	3GBA 091 313-••B	2875	85.6	86.5	0.89	4.1	6.5	7.3	2.7	3.0	0.0028	25	68
3.7	M3BA	100 LC	3GBA 101 313-••B	2900	87.7	88.0	0.90	6.6	7.0	12.2	3.0	3.4	0.00573	37	68
5.5	M3BA	132 SB	3GBA 131 312-••B	2890	89.2	89.7	0.89	9.7	7.0	18.2	2.4	3.5	0.01275	68	75
7.5	M3BA	132 SBB	3GBA 131 314-••B	2880	90.0	90.4	0.87	13.5	6.5	24.8	2.2	3.3	0.01359	70	75
9.3	M3BA	132 SD	3GBA 131 315-••B	2900	90.7	91.4	0.90	16.2	7.0	30.6	2.5	3.6	0.02065	84	75
1500 r/min = 4 poles															
415 V 50 Hz															
0.37	M3BA	71 C	3GBA 072 313-••B	1390	73.2	72.2	0.79	0.9	4.0	2.53	2.0	2.3	0.0011	12	45
0.55	M3BA	80 C	3GBA 082 313-••B	1405	78.0	78.3	0.78	1.3	4.6	3.7	2.3	2.8	0.00183	15	50
0.75	M3BA	80 D	3GBA 082 314-••B	1410	82.4	82.7	0.75	1.7	5.3	5.1	2.6	2.7	0.00205	17	50
1.1	M3BA	90 LB	3GBA 092 314-••B	1430	83.8	83.1	0.80	2.4	6.0	7.3	2.7	3.2	0.00491	26	50
1.5	M3BA	90 LD	3GBA 092 315-••B	1445	85.5	85.0	0.76	3.3	6.0	10	3.2	3.7	0.00538	28	50
2.2	M3BA	100 LC	3GBA 102 313-••B	1450	86.4	86.0	0.75	4.8	7.0	14.5	3.2	4.3	0.00948	36	54
3.7	M3BA	112 MB	3GBA 112 312-••B	1450	88.8	88.2	0.81	7.31	7.0	24.4	3.0	3.6	0.0125	34	64
5.5	M3BA	132 M	3GBA 132 312-••B	1460	89.6	89.8	0.80	10.8	7.0	36	2.5	3.3	0.03282	70	66
7.5	M3BA	132 MB	3GBA 132 313-••B	1460	90.4	90.6	0.79	14.8	6.5	49.1	2.1	3.2	0.03659	73	66
1000 r/min = 6 poles															
415 V 50 Hz															
0.37	M3BA	80 A	3GBA 083 311-••B	920	69.8	69.7	0.71	1.1	3.0	3.8	2.3	2.8	0.00187	15	47
0.55	M3BA	80 B	3GBA 083 312-••B	925	72.4	74.0	0.70	1.5	3.8	5.7	2.1	2.7	0.00239	17	47
0.75	M3BA	90 L	3GBA 093 312-••B	940	75.1	74.7	0.64	2.2	4.4	7.6	2.3	3.4	0.00444	25	44
1.1	M3BA	90 LB	3GBA 093 313-••B	925	77.3	77.8	0.69	2.9	4.1	11.3	2.3	2.6	0.00491	25	44
1.5	M3BA	100 L	3GBA 103 312-••B	955	81.5	81.3	0.68	3.8	4.4	15	2.2	2.7	0.00873	37	49
2.2	M3BA	112 M	3GBA 113 311-••B	945	82.4	83.3	0.72	5.2	4.4	22.2	2.2	2.4	0.0114	40	54
3.7	M3BA	132 MA	3GBA 133 312-••B	970	85.7	84.8	0.68	8.95	5.2	36.4	2.1	2.5	0.03336	69	57
5.5	M3BA	132 MC	3GBA 133 314-••B	970	87.8	87.4	0.70	12.5	5.0	54	1.8	2.7	0.0487	86	57
750 r/min = 8 poles															
415 V 50 Hz															
0.37	M3BA	90 LC	3GBA 094 314-••B	695	66.8	65.2	0.56	1.4	3.2	5.1	2.1	2.4	0.00539	28	43
0.55	M3BA	90 LD	3GBA 094 315-••B	695	77.1	76.7	0.57	2	3.2	7.6	2.0	2.4	0.00609	29	43
0.75	M3BA	100 LB	3GAA 104 312-••B	725	74.4	72.0	0.53	2.8	4.2	9.9	2.8	3.7	0.00871	34	46
1.1	M3BA	100 LC	3GAA 104 313-••B	695	76.6	76.9	0.66	3.1	4.2	15	2.0	2.6	0.00946	35	46
1.5	M3BA	112 MB	3GBA 114 312-••B	705	78.4	77.9	0.58	4.7	4.0	20.3	2.5	2.7	0.0125	42	52
2.2	M3BA	132 S	3GBA 134 311-••B	720	81.2	81.0	0.60	6.2	4.0	29.3	1.9	2.6	0.03336	70	56