

EEx e II T3 - Increased safety motors

Aluminium frame, size 63 - 250
IP 55 IC 411, acc. to EN

Insulation class F
Temperature rise class B

400 V 50 Hz

Output kW	Type designation M2AA	Product code 3GAA	Speed r/min	Effi- ciency %	Power factor cos φ	Current		Torque			Time tE sec	Moment of inertia J=1/4 GD ² kgm ²	Weight kg
						I _N A	I _s I _N	T Nm	T _s T _N	T _{max} T _N			
1000 r/min = 6 poles													
0.12	71	073 501-••A	920	51.0	0.59	0.6	2.5	1.2	2.2	2.6	80	0.0007	5
0.18	71 A	073 502-••A	910	54.0	0.63	0.8	2.5	1.9	1.8	2.1	49	0.0007	5.5
0.25	71 B	073 503-••A	900	59.0	0.66	1.0	2.6	2.6	1.9	2.2	59	0.0009	6.5
0.37	80 A	083 501-••A	920	65.0	0.67	1.3	3.2	3.8	1.9	2.2	42	0.0017	8.5
0.55	80 B	083 502-••A	920	70.0	0.66	1.8	3.2	5.7	2.0	2.3	32	0.0021	9.5
0.65	90 S	093 501-••A	920	72.0	0.64	2.2	3.8	6.7	2.0	2.5	33	0.0032	13
1.0	90 L	093 502-••A	920	74.0	0.66	3.1	3.8	10	1.8	2.2	20	0.0043	16
1.5	100 L	103 501-••A	930	78.0	0.67	4.2	4.5	15	1.7	2.2	20	0.0082	23
2.2	¹⁾ 112 M	113 001-••A	940	80.5	0.76	5.3	5.7	22	2.1	2.7	15	0.015	27
3	132 S	133 001-••A	960	84.5	0.76	6.9	7.0	30	2.4	2.6	14	0.031	39
4	¹⁾ 132 MA	133 002-••A	960	85.5	0.79	8.9	6.7	40	2.6	2.8	11	0.038	46
5.5	¹⁾ 132 MB	133 003-••A	960	86.0	0.81	11.5	7.1	55	2.8	2.8	9.5	0.045	54
7.5	160 M	163 101-••A	970	89.3	0.79	15.4	6.6	74	2.0	2.8	17	0.089	88
11	¹⁾ 160 L	163 102-••A	970	89.8	0.78	23	7.3	108	2.2	2.9	11.5	0.107	102
14	¹⁾ 160 LB	163 103-••A	980	89.1	0.74	30	8.4	136	2.7	3.1	7	0.127	117
15	180 L	183 101-••A	970	90.8	0.78	31	7.1	148	2.1	3.0	17	0.217	151
18.5	¹⁾ 180 LB	183 102-••A	965	90.6	0.79	37.5	6.3	183	2.0	2.6	8.5	0.237	160
18.5	200 MLA	203 001-••A	980	91.9	0.83	35	6.9	180	2.5	2.7	15	0.37	165
22	200 MLB	203 002-••A	980	91.1	0.83	42	7.3	214	2.5	2.7	13.5	0.43	185
30	225 SMB	223 001-••A	985	92.2	0.81	58	7.4	291	2.5	2.7	6.5	0.64	225
37	250 SMA	253 001-••A	990	93.0	0.82	70	6.9	357	2.8	2.8	9	1.16	280
45	250 SMB	253 002-••A	985	93.2	0.84	83	7.0	436	2.8	2.8	8.5	1.49	320

750 r/min = 8 poles

0.12	80 A	084 501-••A	700	47.0	0.56	0.8	2.2	1.8	2.0	2.5	60	0.0017	8.5
0.18	80 B	084 502-••A	700	48.0	0.56	1.0	2.4	2.5	2.0	2.5	45	0.0021	9.5
0.37	90 S	094 501-••A	700	60.0	0.57	1.6	2.8	5.5	2.0	2.5	68	0.0031	13
0.55	90 L	094 502-••A	700	64.0	0.57	2.3	3.1	7.5	2.1	2.6	70	0.0047	16
0.75	100 LA	104 501-••A	700	70.0	0.59	2.7	3.4	10	2.0	2.6	56	0.0069	21
1.1	100 LB	104 502-••A	700	72.0	0.63	3.5	3.7	15	1.8	2.3	47	0.0083	24
4	160 MA	164 101-••A	715	84.1	0.69	10	5.0	53	2.1	2.4	20	0.072	75
5.5	¹⁾ 160 M	164 102-••A	710	84.7	0.70	13.4	5.1	74	2.4	2.6	19	0.091	88
7.5	¹⁾ 160 L	164 103-••A	715	86.3	0.70	18.1	5.2	100	2.4	2.8	20	0.131	118
8.5	¹⁾ 160 LB	164 104-••A	700	83.5	0.70	21	5.2	116	2.4	2.5	16	0.131	118
11	180 L	184 101-••A	720	88.7	0.76	23.5	5.3	146	2.4	2.6	30	0.224	147
13	180 LB	184 102-••A	725	88.0	0.74	28	6.1	171	2.9	3.0	14	0.24	155
15	200 MLA	204 001-••A	735	90.2	0.80	30	7.2	195	1.8	3.0	17	0.45	175
18.5	225 SMA	224 001-••A	735	89.0	0.75	40	6.5	240	1.6	2.5	17	0.61	210
22	225 SMB	224 002-••A	735	90.1	0.75	47	6.1	286	1.9	2.7	19	0.68	225
30	¹⁾ 250 SMA	254 001-••A	740	92.2	0.77	61	7.1	387	1.9	2.9	15	1.25	280
37	250 SMB	254 002-••A	735	91.4	0.80	73	7.4	481	2.0	2.9	15	1.52	320

¹⁾ Temperature rise class F.

Note: M2AA stocked motors cannot be restamped for 440 V 60 Hz; available during new production. Stocked motors with voltage code S and D can be restamped for 460 VY and voltage code D for 460 VD; except 2-pole type M2AA 132 SB and 2- and 4-pole M2AA 200-250 motors which need special winding.