

Flameproof cast iron motors

Technical data for Ex d IIB/IIC T4 Gb

IE2

IP 55 - IC 411 - Insulation class F, temperature rise class B
IE2 efficiency class according to IEC 60034-30; 2008



Output kW	Motor type	Product code	Speed r/min	Efficiency IEC 60034--2-1; 2007				Current		Torque			Moment of inertia J = 1/4 GD ² kgm ²	Weight kg	Sound pressure level L _{PA} dB
				Full load 100%	3/4 load 75%	1/2 load 50%	Power factor cos φ	I _N A	I _s A	T _N Nm	T _l Nm	T _b Nm			
1000 r/min = 6-poles			400 V 50 Hz			CENELEC-design									
0.37	M3JP 80 MA	3GJP 083 310-••H	953	72.6	70.3	64.6	0.64	1.14	4.8	3.7	3.4	3.6	0.0022	38	50
0.55	M3JP 80 MB	3GJP 083 320-••H	938	72.9	71.7	67.0	0.70	1.55	4.3	5.5	2.8	2.9	0.0022	38	50
0.75	M3JP 90 SLA	3GJP 093 010-••H	946	77.9	77.1	73.4	0.69	2	4.9	7.5	2.1	2.8	0.0037	52	44
1.1	M3JP 90 SLC	3GJP 093 030-••H	933	78.5	78.8	76.3	0.71	2.8	4.7	11.2	1.8	2.4	0.0048	53	44
1.5	M3JP 100 LA	3GJP 103 510-••H	951	80.1	80.0	77.4	0.74	3.6	4.2	15	2.3	2.9	0.012	69	54
2.2	M3JP 112 MB	3GJP 113 320-••H	950	82.0	82.5	80.6	0.76	5	5.9	22.1	2.2	2.8	0.014	72	54
3	M3JP 132 SMB	3GJP 133 220-••H	961	83.3	83.0	80.4	0.77	6.7	6.1	29.8	2.1	3.0	0.032	105	57
4	M3JP 132 SMC	3GJP 133 230-••H	964	84.6	84.3	81.8	0.74	9.2	6.6	39.6	2.3	3.4	0.034	107	57
5.5	M3JP 132 SMD	3GJP 133 240-••H	967	87.6	87.5	85.7	0.72	12.5	6.9	54.3	2.3	3.4	0.039	109	62
7.5	M3JP 160 MLA	3GJP 163 410-••H	965	87.2	88.4	88.2	0.81	15.3	6.5	74.2	1.9	3.0	0.088	226	57
11	M3JP 160 MLB	3GJP 163 420-••H	972	90.1	90.8	90.4	0.81	21.7	7.8	108	2.3	3.5	0.126	253	65
15	M3JP 180 MLB	3GJP 183 420-••H	972	90.4	91.0	90.4	0.82	29.2	7.2	147	1.9	3.2	0.25	304	58
18.5	M3JP 200 MLA	3GJP 203 410-••G	983	90.9	91.1	90.2	0.82	35.8	7.1	179	3.2	3.1	0.37	300	66
22	M3JP 200 MLB	3GJP 203 420-••G	983	91.6	91.9	91.0	0.82	42.2	7.5	213	3.2	3.2	0.43	320	61
30	M3JP 225 SMB	3GJP 223 220-••G	985	92.2	92.6	92.2	0.82	57.2	7.4	290	3.4	3.0	0.64	385	61
37	M3JP 250 SMA	3GJP 253 210-••G	987	93.1	93.4	92.8	0.81	70.8	7.2	357	3.2	2.9	1.16	455	66
45	M3JP 280 SMA	3GJP 283 210-••G	990	93.4	93.6	93.1	0.84	82.7	7.0	434	2.5	2.5	1.85	705	66
55	M3JP 280 SMB	3GJP 283 220-••G	990	93.8	94.0	93.3	0.84	100	7.0	530	2.7	2.6	2.2	745	66
75	M3JP 315 SMA	3GJP 313 210-••G	992	94.4	94.4	93.5	0.82	139	7.4	721	2.4	2.8	3.2	930	70
90	M3JP 315 SMB	3GJP 313 220-••G	992	94.8	94.8	94.2	0.84	163	7.5	866	2.4	2.8	4.1	1030	70
110	M3JP 315 SMC	3GJP 313 230-••G	991	95.0	95.0	94.6	0.83	201	7.4	1059	2.5	2.9	4.9	1100	70
132	M3JP 315 MLA	3GJP 313 410-••G	991	95.3	95.4	94.9	0.83	240	7.5	1271	2.7	3.0	5.8	1250	68
160	M3JP 355 SMA	3GJP 353 210-••G	993	95.4	95.4	94.8	0.83	291	7.0	1538	2.0	2.6	7.9	1630	75
200	M3JP 355 SMB	3GJP 353 220-••G	993	95.7	95.7	95.1	0.84	359	7.2	1923	2.2	2.7	9.7	1790	75
250	M3JP 355 SMC	3GJP 353 230-••G	993	95.7	95.7	95.1	0.83	454	7.4	2404	2.6	2.9	11.3	2010	75
315	M3JP 355 MLB	3GJP 353 420-••G	992	95.7	95.7	95.2	0.83	572	7.0	3032	2.5	2.7	13.5	2370	75
355	M3JP 355 LKA	3GJP 353 810-••G	992	95.7	95.7	95.1	0.83	645	7.6	3417	2.7	2.9	15.5	2690	75
400	M3JP 400 LA	3GJP 403 510-••G	993	96.2	96.3	95.8	0.82	731	7.1	3846	2.3	2.7	17	3180	76
400	M3JP 400 LKA	3GJP 403 810-••G	993	96.2	96.3	95.8	0.82	731	7.1	3846	2.3	2.7	17	3180	76
450	M3JP 400 LB	3GJP 403 520-••G	994	96.6	96.6	96.1	0.82	819	7.4	4323	2.4	2.8	20.5	3430	76
450	M3JP 400 LKB	3GJP 403 820-••G	994	96.6	96.6	96.1	0.82	819	7.4	4323	2.4	2.8	20.5	3430	76
500	M3JP 400 LC	3GJP 403 530-••G	993	96.6	96.7	96.2	0.83	900	7.2	4808	2.5	2.7	22	3580	76
500	M3JP 400 LKC	3GJP 403 830-••G	993	96.6	96.7	96.2	0.83	900	7.2	4808	2.5	2.7	22	3580	76
560	M3JP 400 LD	3GJP 403 540-••G	993	96.9	96.9	96.4	0.85	981	7.4	5385	2.4	2.8	24	3680	77
560	M3JP 400 LKD	3GJP 403 840-••G	993	96.9	96.9	96.4	0.85	981	7.4	5385	2.4	2.8	24	3680	77
610	M3JP 450 LA	3GJP 453 510-••G	994	96.6	96.6	96.2	0.83	1098	7.1	5860	1.4	2.9	31	4320	81
1000 r/min = 6-poles			400 V 50 Hz			High-output design									
14 ¹⁾²⁾	M3JP 160 MLC	3GJP 163 430-••H	969	89.2	89.4	88.0	0.75	30.2	7.9	137	2.8	3.9	0.126	253	64
18.5 ²⁾	M3JP 180 MLC	3GJP 183 430-••H	975	90.1	90.2	88.7	0.74	40	7.2	181	2.0	3.2	0.25	304	61
30 ²⁾	M3JP 200 MLC	3GJP 203 430-••G	983	91.6	91.7	90.5	0.80	59	7.5	291	3.5	3.4	0.49	340	65
37 ²⁾	M3JP 225 SMC	3GJP 223 230-••G	983	92.1	92.5	92.1	0.83	69.8	7.1	359	3.0	2.8	0.75	415	64
45	M3JP 250 SMB	3GJP 253 220-••G	986	93.1	93.3	92.6	0.82	85	7.2	435	3.3	2.8	1.49	500	65
75	M3JP 280 SMC	3GJP 283 230-••G	990	94.2	94.5	94.1	0.84	136	7.3	723	2.8	2.7	2.85	825	66

¹⁾ Temperature rise class F

²⁾ Efficiency class IE1

The two bullets in the product code indicate choice of mounting

arrangements, voltage and frequency code (see ordering information page).

I_s / I_N = Starting current

T_l / T_N = Locked rotor torque

T_b / T_N = Pull-out torque

Efficiency values are given according to IEC 60034-2-1; 2007. Please note that the values are not comparable without knowing the testing method.

ABB has calculated the efficiency values according to indirect method, stray load losses (additional losses) determined from measuring.



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