

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 I _N	T _N Nm	T _l T _N				T _b T _N
3000 r/min = 2-poles			400 V 50 Hz			CENELEC-design									
0.75	M3JP 80 MA	3GJP 081 310-••H	2861	80.1	79.4	76.2	0.87	1.55	7.3	2.5	3.7	3.8	0.0006	37	59
1.1	M3JP 80 MB	3GJP 081 320-••H	2833	81.6	82.2	80.6	0.87	2.2	5.9	3.7	3.0	3.2	0.0007	39	59
1.5	M3JP 90 SLA	3GJP 091 010-••H	2881	81.9	82.1	80.1	0.88	3	6.7	4.9	3.0	3.5	0.001	50	61
2.2	M3JP 90 SLC	3GJP 091 030-••H	2877	84.5	85.0	83.8	0.89	4.2	7.8	7.3	2.7	3.5	0.0014	53	61
3	M3JP 100 LA	3GJP 101 510-••H	2896	86.0	86.4	84.9	0.90	5.5	6.8	9.8	2.2	3.0	0.0036	70	65
4	M3JP 112 MB	3GJP 111 320-••H	2891	86.0	86.5	85.3	0.89	7.5	7.8	13.2	3.6	3.7	0.0043	73	65
5.5	M3JP 132 SMB	3GJP 131 220-••H	2905	87.0	87.2	85.8	0.90	10.1	6.9	18	2.4	3.3	0.009	101	71
7.5	M3JP 132 SMD	3GJP 131 240-••H	2914	88.3	88.7	87.6	0.90	13.6	7.6	24.5	2.8	3.6	0.012	109	71
11	M3JP 160 MLA	3GJP 161 410-••H	2931	90.1	90.5	89.6	0.89	19.7	7.2	35.8	2.6	3.1	0.043	213	71
15	M3JP 160 MLB	3GJP 161 420-••H	2929	91.2	91.9	91.4	0.89	26.6	7.2	48.9	3.0	3.5	0.052	222	71
18.5	M3JP 160 MLC	3GJP 161 430-••H	2934	91.8	92.2	91.8	0.90	32.3	7.5	60.2	2.8	3.4	0.062	233	69
22	M3JP 180 MLA	3GJP 181 410-••H	2938	91.7	92.2	91.7	0.90	38.4	7.0	71.5	2.5	3.1	0.089	265	69
30	M3JP 200 MLA	3GJP 201 410-••G	2956	93.2	93.6	93.0	0.88	52.7	7.4	96.9	3.0	3.2	0.15	310	74
37	M3JP 200 MLC	3GJP 201 430-••G	2954	93.6	94.0	93.4	0.89	64.1	7.5	119	2.8	3.2	0.19	340	75
45	M3JP 225 SMB	3GJP 221 220-••G	2968	93.9	93.8	92.9	0.87	79.5	7.2	144	2.7	3.0	0.26	400	76
55	M3JP 250 SMA	3GJP 251 210-••G	2975	94.3	94.1	93.0	0.89	94.5	7.8	176	2.4	3.1	0.49	460	75
75	M3JP 280 SMA	3GJP 281 210-••G	2978	94.3	94.1	92.8	0.88	130	7.6	240	2.1	3.0	0.8	725	77
90	M3JP 280 SMB	3GJP 281 220-••G	2976	94.6	94.5	93.5	0.90	152	7.4	288	2.1	2.9	0.9	765	77
110	M3JP 315 SMA	3GJP 311 210-••G	2982	94.9	94.4	92.9	0.86	194	7.6	352	2.0	3.0	1.2	980	78
132	M3JP 315 SMB	3GJP 311 220-••G	2982	95.1	94.8	93.6	0.88	227	7.4	422	2.2	3.0	1.4	1040	78
160	M3JP 315 SMC	3GJP 311 230-••G	2981	95.4	95.2	94.2	0.89	271	7.5	512	2.3	3.0	1.7	1125	78
200	M3JP 315 MLA	3GJP 311 410-••G	2980	95.7	95.7	94.9	0.90	335	7.7	640	2.6	3.0	2.1	1290	78
250 ³⁾	M3JP 355 SMA	3GJP 351 210-••G	2984	95.7	95.5	94.5	0.89	423	7.7	800	2.1	3.3	3	1790	83
315 ³⁾	M3JP 355 SMB	3GJP 351 220-••G	2980	95.7	95.7	95.1	0.89	533	7.0	1009	2.1	3.0	3.4	1870	83
355 ³⁾	M3JP 355 SMC	3GJP 351 230-••G	2984	95.7	95.7	95.2	0.88	608	7.2	1136	2.2	3.0	3.6	1940	83
400 ³⁾	M3JP 355 MLA	3GJP 351 410-••G	2982	96.9	96.6	95.9	0.88	677	7.1	1280	2.3	2.9	4.1	2190	83
450 ³⁾	M3JP 355 MLB	3GJP 351 420-••G	2983	97.1	97.0	96.4	0.90	743	7.9	1440	2.2	2.9	4.3	2270	83
500 ³⁾	M3JP 355 LKA	3GJP 351 810-••G	2982	96.9	96.9	96.5	0.90	827	7.5	1601	2.0	3.9	4.8	2510	83
560 ⁴⁾	M3JP 400 LA	3GJP 401 510-••G	2988	97.2	97.2	96.6	0.89	934	7.8	1789	2.1	3.4	7.9	3230	82
560 ⁴⁾	M3JP 400 LKA	3GJP 401 810-••G	2988	97.2	97.2	96.6	0.89	934	7.8	1789	2.1	3.4	7.9	3230	82
630 ⁴⁾	M3JP 400 LB	3GJP 401 520-••G	2987	97.4	97.4	96.9	0.89	1048	7.8	2014	2.2	3.4	8.2	3330	82
630 ⁴⁾	M3JP 400 LKB	3GJP 401 820-••G	2987	97.4	97.4	96.9	0.89	1048	7.8	2014	2.2	3.4	8.2	3330	82
710 ⁴⁾	M3JP 400 LC	3GJP 401 530-••G	2987	97.5	97.4	97.0	0.89	1180	7.8	2269	2.6	3.4	9.3	3580	82
710 ⁴⁾	M3JP 400 LKC	3GJP 401 830-••G	2987	97.5	97.4	97.0	0.89	1180	7.8	2269	2.6	3.4	9.3	3580	82
3000 r/min = 2-poles			400 V 50 Hz			High-output design									
22 ²⁾	M3JP 160 MLD	3GJP 161 440-••H	2929	91.2	91.6	91.0	0.90	38.6	7.3	71.7	2.7	3.4	0.07	239	77
30	M3JP 180 MLB	3GJP 181 420-••H	2943	92.5	93.0	92.6	0.90	52	6.8	97.3	2.3	3.1	0.13	298	78
37	M3JP 180 MLC	3GJP 181 430-••H	2947	92.8	93.0	92.5	0.90	63.9	7.9	119	2.9	3.6	0.13	298	77
45	M3JP 200 MLE	3GJP 201 450-••G	2944	93.3	93.6	93.0	0.88	79.1	7.3	145	2.9	3.1	0.22	345	79
55	M3JP 225 SMC	3GJP 221 230-••G	2965	93.9	93.9	92.9	0.88	96	7.1	177	2.6	3.0	0.29	420	80
67 ⁵⁾	M3JP 225 SMD	3GJP 221 240-••G	2966	93.9	93.7	92.6	0.86	119	7.4	215	2.8	3.2	0.31	430	78
75	M3JP 250 SMB	3GJP 251 220-••G	2969	94.0	94.0	93.2	0.89	129	7.9	241	2.6	3.2	0.57	500	80
90 ^{1) 2) 5)}	M3JP 250 SMC	3GJP 251 230-••G	2965	94.0	94.2	93.7	0.90	153	7.7	289	2.6	3.1	0.59	510	80
110	M3JP 280 SMC	3GJP 281 230-••G	2978	95.1	95.0	94.2	0.90	185	7.9	352	2.4	3.0	1.15	825	77

1) Temperature rise class F
2) Efficiency class IE1
3) 3 dB(A) sound pressure level reduction with unidirectional fan construction. Direction of rotation must be stated when ordering, see variant codes 044 and 045

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

