Flameproof cast iron motors
Technical data for Ex d IIB/IIC T4 Gb

IP 55 - IC 411 - Insulation class F, temperature rise class B

Output	Motor		Product code		Speed	Efficiency IEC 60034--2-1; 2007 Full load	3/4 load	1/2 load	Power factor	Current I_N	I_s/I_N	Torque T_N	T_l/T_N	T_b/T_N	Moment of inertia J = 1/4 GD²	Weight	Sound pressure level L_{PA}
kW	type				r/min	100%	75%	50%	cos φ	A		Nm			kgm²	kg	dB
750 r/min = 8-poles			**400 V 50 Hz**							**CENELEC-design**							
0.18	**M3JP**	**80 MA**	3GJP	084 310-••H	720	61.0	56.4	48.3	0.48	0.88	3.3	2.3	3.7	4.0	0.0022	38	36
0.25	**M3JP**	**80 MB**	3GJP	084 320-••H	705	63.8	61.1	54.6	0.58	0.97	3.2	3.3	2.6	2.8	0.0022	38	36
0.37	**M3JP**	**90 SLA**	3GJP	094 010-••H	696	67.0	67.0	63.1	0.63	1.26	3.0	5	2.0	2.2	0.0036	50	36
0.55	**M3JP**	**90 SLC**	3GJP	094 030-••H	695	68.7	68.5	64.4	0.61	1.89	3.1	7.5	2.2	2.4	0.0037	52	36
0.75	**M3JP**	**100 LA**	3GJP	104 510-••H	720	75.9	74.1	69.1	0.59	2.4	3.8	9.9	2.0	2.9	0.012	69	54
1.1	**M3JP**	**100 LB**	3GJP	104 520-••H	717	76.4	74.9	70.2	0.57	3.6	3.7	14.6	2.1	2.9	0.012	69	54
1.5	**M3JP**	**112 MC**	3GJP	114 330-••H	713	77.2	76.4	72.4	0.59	4.7	3.5	20	2.0	2.7	0.014	73	54
2.2	**M3JP**	**132 SMC**	3GJP	134 230-••H	720	80.1	79.8	76.7	0.65	6	4.7	29.1	2.0	2.9	0.034	107	59
3	**M3JP**	**132 SMD**	3GJP	134 240-••H	710	79.9	81.5	80.6	0.70	7.7	4.1	40.3	1.7	2.3	0.036	109	59
4	**M3JP**	**160 MLA**	3GJP	164 410-••H	722	86.7	87.4	86.6	0.71	9.3	5.4	52.9	1.7	2.8	0.133	251	59
5.5	**M3JP**	**160 MLB**	3GJP	164 420-••H	723	86.8	87.6	86.8	0.71	12.8	5.8	72.6	1.9	3.1	0.133	251	53
7.5	**M3JP**	**160 MLC**	3GJP	164 430-••H	718	85.5	86.3	85.5	0.70	18	5.7	99.7	2.1	3.1	0.133	251	55
11	**M3JP**	**180 MLB**	3GJP	184 420-••H	723	88.3	89.2	88.7	0.72	24.9	5.7	145	1.7	2.7	0.245	298	63
15	**M3JP**	**200 MLA**	3GJP	204 410-••G	734	89.9	90.3	89.6	0.79	30.4	7.0	195	2.4	3.2	0.45	315	56
18.5	**M3JP**	**225 SMA**	3GJP	224 210-••G	734	90.0	90.3	89.3	0.74	40	6.1	240	2.2	3.0	0.61	370	55
22	**M3JP**	**225 SMB**	3GJP	224 220-••G	732	90.6	91.2	90.6	0.77	45.5	6.5	287	2.2	2.9	0.68	385	56
30	**M3JP**	**250 SMA**	3GJP	254 210-••G	735	91.4	91.2	90.7	0.78	60.7	6.7	389	2.0	2.9	1.25	455	56
37	**M3JP**	**280 SMA**	3GJP	284 210-••G	741	92.7	92.7	91.6	0.78	73.8	7.3	476	1.7	3.0	1.85	705	65
45	**M3JP**	**280 SMB**	3GJP	284 220-••G	741	93.2	93.2	92.2	0.78	89.3	7.6	579	1.8	3.1	2.2	745	65
55	**M3JP**	**315 SMA**	3GJP	314 210-••G	742	93.4	93.5	92.7	0.81	104	7.1	707	1.6	2.7	3.2	930	62
75	**M3JP**	**315 SMB**	3GJP	314 220-••G	741	93.7	93.9	93.4	0.82	140	7.1	966	1.7	2.7	4.1	1030	62
90	**M3JP**	**315 SMC**	3GJP	314 230-••G	741	94.0	94.2	93.6	0.82	168	7.4	1159	1.8	2.7	4.9	1100	64
110	**M3JP**	**315 MLA**	3GJP	314 410-••G	740	94.0	94.3	94.0	0.83	203	7.3	1419	1.8	2.7	5.8	1250	72
132	**M3JP**	**355 SMA**	3GJP	354 210-••G	744	94.7	94.7	94.0	0.80	251	7.5	1694	1.5	2.6	7.9	1630	69
160	**M3JP**	**355 SMB**	3GJP	354 220-••G	744	95.2	95.2	94.5	0.80	303	7.6	2053	1.6	2.6	9.7	1790	69
200	**M3JP**	**355 SMC**	3GJP	354 230-••G	743	95.3	95.4	94.8	0.80	378	7.4	2570	1.6	2.6	11.3	1930	69
250	**M3JP**	**355 MLB**	3GJP	354 420-••G	743	95.4	95.5	95.0	0.80	472	7.5	3213	1.6	2.7	13.5	2370	72
315	**M3JP**	**400 LA**	3GJP	404 510-••G	744	96.1	96.2	95.8	0.81	584	7.0	4043	1.2	2.6	17	3180	71
315	**M3JP**	**400 LKA**	3GJP	404 810-••G	744	96.1	96.2	95.8	0.81	584	7.0	4043	1.2	2.6	17	3180	71
355	**M3JP**	**400 LB**	3GJP	404 520-••G	743	96.2	96.3	96.1	0.83	641	6.8	4562	1.2	2.5	21	3480	71
355	**M3JP**	**400 LKB**	3GJP	404 820-••G	743	96.2	96.3	96.1	0.83	641	6.8	4562	1.2	2.5	21	3480	71
400	**M3JP**	**400 LC**	3GJP	404 530-••G	744	96.3	96.4	96.0	0.82	731	7.4	5134	1.3	2.7	24	3680	71
400	**M3JP**	**400 LKC**	3GJP	404 830-••G	744	96.3	96.4	96.0	0.82	731	7.4	5134	1.3	2.7	24	3680	71
430	**M3JP**	**450 LA**	3GJP	454 510-••G	744	95.9	96.1	95.8	0.82	789	6.2	5519	1.0	2.6	26	3920	80
470	**M3JP**	**450 LB**	3GJP	454 520-••G	744	96.0	96.2	95.8	0.82	861	6.6	6032	1.1	2.7	29	4160	80
530	**M3JP**	**450 LC**	3GJP	454 530-••G	745	96.1	96.2	95.8	0.81	982	7.3	6793	1.3	3.0	35	4520	80
600	**M3JP**	**450 LD**	3GJP	454 540-••G	745	96.3	96.3	95.9	0.80	1124	7.9	7690	1.4	3.3	41	4960	80
750 r/min = 8-poles			**400 V 50 Hz**							**CENELEC-design**							
18.5	**M3JP**	**200 MLB**	3GJP	204 420-••G	734	89.8	90.2	89.6	0.80	37.1	6.9	240	2.2	3.2	0.54	335	57
30	**M3JP**	**225 SMC**	3GJP	224 230-••G	731	90.7	91.5	91.3	0.78	61.2	6.3	391	2.3	3.0	0.75	410	59
37	**M3JP**	**250 SMB**	3GJP	254 220-••G	737	92.2	91.7	91.0	0.78	74.2	7.5	479	2.3	3.4	1.52	500	59
55	**M3JP**	**280 SMC**	3GJP	284 230-••G	741	93.4	93.5	92.8	0.80	106	7.9	708	1.9	3.1	2.85	825	65

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.