

# Flameproof motors EEx d/EEx de IIB/IIC T4

## Technical data for totally enclosed squirrel cage three phase motors



M000194

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

Output kW		Motor type	Product code	Speed r/min	Efficiency		Power factor cos φ	Current		Torque			Moment of inertia J=1/4GD <sup>2</sup> kgm <sup>2</sup>	Weight		Sound pressure level L <sub>p</sub> dB(A)	
50 Hz	60 Hz				FL	3/4		I <sub>N</sub>	I <sub>s</sub>	T <sub>N</sub>	T <sub>s</sub>	T <sub>max</sub>		EEx d	EEx de		
<b>3000 r/min = 2 poles</b>		<b>400 V 50 Hz</b>															
		<b>Basic design</b>															
0.75	0.9	M3JP/KP 80 MA	3GJP/KP 081 310-***G	2861	77.2	75.6	0.86	1.62	7.3	2.5	3.7	3.8	0.0006	37	28	59	
1.1	1.3	M3JP/KP 80 MB	3GJP/KP 081 320-***G	2831	81.1	81.1	0.89	2.21	5.7	3.7	3.0	3.2	0.0007	39	30	59	
1.5	1.75	M3JP/KP 90 SLA	3GJP/KP 091 010-***G	2881	81.9	81.8	0.88	3	6.7	5	3.0	3.5	0.001	50	41	61	
2.2	2.5	M3JP/KP 90 SLC	3GJP/KP 091 030-***G	2871	84.6	85.1	0.9	4.19	7.5	7.3	2.7	3.5	0.0014	53	44	61	
3	3.5	M3JP/KP 100 LA	3GJP/KP 101 510-***G	2899	85.9	85.9	0.91	5.5	7.5	10	2.2	3.0	0.0036	67	58	65	
4	4.6	M3JP/KP 112 MB	3GJP/KP 111 320-***G	2901	87.1	87.2	0.9	7.5	7.2	13	3.6	3.7	0.0043	70	61	65	
5.5	6.3	M3JP/KP 132 SMB	3GJP/KP 131 220-***G	2905	87.0	86.9	0.9	10.4	6.7	18	2.4	3.3	0.009	98	89	71	
7.5	8.6	M3JP/KP 132 SMD	3GJP/KP 131 240-***G	2914	88.5	88.7	0.9	13.8	7.6	25	2.8	3.6	0.012	106	97	71	
11	12.5	M3JP/KP 160 MLA	3GJP/KP 161 410-***G	2936	91.2	91.1	0.87	20	7.2	36	2.9	3.3	0.039	153	147	71	
15	17	M3JP/KP 160 MLB	3GJP/KP 161 420-***G	2934	91.6	91.5	0.88	28	7.5	49	3.1	3.5	0.047	162	156	71	
18.5	21	M3JP/KP 160 MLC	3GJP/KP 161 430-***G	2934	92.4	92.5	0.9	33	7.5	60	2.8	3.4	0.054	173	167	71	
22	25	M3JP/KP 180 MLA	3GJP/KP 181 410-***G	2938	92.6	92.7	0.9	39	6.9	72	2.5	3.1	0.077	200	194	71	
30	35	M3JP/KP 200 MLA	3GJP/KP 201 410-***G	2946	94.0	94.1	0.88	54	7.4	97	3.0	3.2	0.15	310	290	74	
37	43	M3JP/KP 200 MLC	3GJP/KP 201 430-***G	2948	94.1	94.0	0.89	65	7.5	120	2.8	3.2	0.19	340	320	75	
45	52	M3JP/KP 225 SMB	3GJP/KP 221 220-***G	2968	94.7	94.6	0.87	79	7.2	145	2.7	3.0	0.26	400	380	76	
55	63	M3JP/KP 250 SMA	3GJP/KP 251 210-***G	2970	94.6	94.3	0.88	96	7.7	177	2.4	3.1	0.49	460	440	75	
75	90	M3JP/KP 280 SMA	3GJP/KP 281 210-***G	2978	94.8	94.3	0.88	131	7.6	240	2.1	3.0	0.8	725	645	77	
90	105	M3JP/KP 280 SMB	3GJP/KP 281 220-***G	2976	95.1	94.8	0.9	152	7.4	289	2.1	2.9	0.9	765	685	77	
110	125	M3JP/KP 315 SMA	3GJP/KP 311 210-***G	2982	95.1	94.4	0.86	194	7.6	352	2.0	3.0	1.2	980	900	78	
132	155	M3JP/KP 315 SMB	3GJP/KP 311 220-***G	2982	95.4	94.9	0.88	228	7.4	423	2.2	3.0	1.4	1040	960	78	
160	185	M3JP/KP 315 SMC	3GJP/KP 311 230-***G	2981	96.1	95.6	0.89	269	7.5	513	2.3	3.0	1.7	1125	1045	78	
200	230	M3JP/KP 315 MLA	3GJP/KP 311 410-***G	2980	96.3	95.9	0.9	336	7.7	641	2.6	3.0	2.1	1290	1210	78	
250	290 <sup>2)</sup>	M3JP/KP 355 SMA	3GJP/KP 351 210-***G	2984	96.3	95.8	0.89	425	7.7	800	2.1	3.3	3	1790	1630	83	
315	362 <sup>2)</sup>	M3JP/KP 355 SMB	3GJP/KP 351 220-***G	2980	96.5	96.2	0.89	535	7.0	1009	2.1	3.0	3.4	1870	1710	83	
355	410 <sup>2)</sup>	M3JP/KP 355 SMC	3GJP/KP 351 230-***G	2984	96.7	96.4	0.88	604	7.2	1136	2.2	3.0	3.6	1940	1780	83	
400	450 <sup>2)</sup>	M3JP/KP 355 MLA	3GJP/KP 351 410-***G	2982	96.8	96.5	0.88	680	7.1	1281	2.3	2.9	4.1	2190	2030	83	
450	510 <sup>2)</sup>	M3JP/KP 355 MLB	3GJP/KP 351 420-***G	2983	97.0	96.8	0.9	750	7.9	1441	2.2	3.6	4.3	2270	2110	83	
500	<sup>2)</sup>	M3JP/KP 355 LKA	3GJP/KP 351 810-***G	2982	97.0	96.9	0.9	830	7.5	1601	2.1	3.5	4.8	2510	2350	83	
560	630 <sup>3)</sup>	M3JP/KP 400 LA	3GJP/KP 401 510-***G	2988	97.2	97.0	0.89	940	7.8	1790	2.1	3.4	7.9	3230	3070	82	
560	630 <sup>3)</sup>	M3JP/KP 400 LKA	3GJP/KP 401 810-***G	2988	97.2	97.0	0.89	940	7.8	1790	2.1	3.4	7.9	3230	3070	82	
630	710 <sup>3)</sup>	M3JP/KP 400 LB	3GJP/KP 401 520-***G	2987	97.3	97.1	0.89	1055	7.8	2014	2.2	3.4	8.2	3330	3170	82	
630	710 <sup>3)</sup>	M3JP/KP 400 LKB	3GJP/KP 401 820-***G	2987	97.3	97.1	0.89	1055	7.8	2014	2.2	3.4	8.2	3330	3170	82	
710	780 <sup>3)</sup>	M3JP/KP 400 LC	3GJP/KP 401 530-***G	2987	97.4	97.3	0.89	1185	7.8	2270	2.6	3.4	9.3	3580	3420	82	
710	780 <sup>3)</sup>	M3JP/KP 400 LKC	3GJP/KP 401 830-***G	2987	97.4	97.3	0.89	1185	7.8	2270	2.6	3.4	9.3	3580	3420	82	
<b>3000 r/min = 2 poles</b>		<b>400 V 50 Hz</b>															
		<b>High-output design</b>															
9.2	10.6	M3JP/KP 132 SME	3GJP/KP 131 250-***G	2875	85.6	86.0	0.91	17.1	6.1	30.6	2.2	2.9	0.012	106	97	77	
22	25	M3JP/KP 160 MLD	3GJP/KP 161 440-***G	2929	91.4	91.3	0.9	39	7.4	72	2.8	3.4	0.059	179	173	77	
30	34	M3JP/KP 180 MLB	3GJP/KP 181 420-***G	2944	92.8	92.7	0.88	54	7.5	97	2.8	3.5	0.092	216	210	78	
37	42 <sup>4)</sup>	M3JP/KP 180 MLC	3GJP/KP 181 430-***G	2947	93.7	93.7	0.89	65	7.9	120	2.9	3.6	0.114	235	229	78	
45	52	M3JP/KP 200 MLE	3GJP/KP 201 450-***G	2944	93.7	93.8	0.88	79	7.3	146	2.9	3.1	0.22	345	325	79	
55	63	M3JP/KP 225 SMC	3GJP/KP 221 230-***G	2965	94.3	94.0	0.88	96	7.1	177	2.6	3.0	0.29	420	400	80	
67	73 <sup>4)5)</sup>	M3JP/KP 225 SMD	3GJP/KP 221 240-***G	2966	94.4	93.9	0.86	120	7.4	216	2.8	3.2	0.31	430	410	78	
75	86	M3JP/KP 250 SMB	3GJP/KP 251 220-***G	2969	95.1	95.0	0.89	129	7.9	241	2.6	3.2	0.57	500	480	80	
90	96 <sup>1)4)5)</sup>	M3JP/KP 250 SMC	3GJP/KP 251 230-***G	2965	94.9	94.8	0.9	153	7.7	290	2.6	3.1	0.59	510	490	80	
110	125	M3JP/KP 280 SMC	3GJP/KP 281 230-***G	2978	95.7	95.3	0.9	185	7.9	353	2.4	3.0	1.15	825	745	77	

**Notes:**

Full data for types M3JP/KP 80-132 are available on request. Availability of types M3JP 80-132 and M3JP/KP 400 to be checked from ABB Sales Office.

When ordering IIC motors, following variant code has to be added: 461 = EEx d, EEx de design, Group IIC

Values above are given for 400 V 50 Hz; data for other voltages, frequencies, ambient temperatures and surface temperature T5 on request.