

**Flameproof motors – EEx d IIB/IIC T4 - M2JA
EEx de IIB/IIC T4 - M2KA**

**Insulation class F
Temperature rise class B**

**Cast iron frame
IP 55 IC 411**

Nominal voltage 380-400- 415 V 50 Hz ¹⁾

400 V 50 Hz / 440 V 60 Hz

Output kW	De- sign	Type designa- tion	Product code	Speed		Efficiency		Power factor	Current		Torque			Moment of inertia J=1/4 GD ² kgm ²	Weight kg	Sound pres- sure level L _p dB(A) 50 Hz
				50 Hz	60 Hz	FL	3/4		cos φ	I _N	I _s	T	T _s			
50 Hz 60 Hz		M2JA/ M2KA	3GJA/ 3GKA	50 Hz	60 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz			
0.18 0.22		80 LS	084 310-••B	700	845	53.2	49.0	0.47	1.1	3.4	2.5	3.5	3.6	0.002	24	36
0.25 0.3		80 L	084 320-••B	690	830	57.5	53.0	0.52	1.3	3.1	3.5	2.5	2.6	0.002	24	36
0.37 0.45		90 S	094 110-••B	700	850	61.0	56.0	0.56	1.7	3.0	5	2.0	2.2	0.0031	32	36
0.55 0.65		90 L	094 510-••B	695	835	62.7	59.0	0.54	2.4	3.0	7.6	2.0	2.3	0.0047	37	36
0.75 0.9		100 LA	104 510-••B	715	860	71.4	68.0	0.57	2.8	3.9	10.1	2.4	2.8	0.0069	44	44
1.1 1.3		100 LB	104 520-••B	705	850	71.7	69.0	0.61	3.8	3.8	15	2.1	2.6	0.0083	47	44
1.5 1.75		112 M	114 310-••B	700	845	73.4	72.8	0.61	4.9	3.8	20	2.3	2.5	0.01	51	46
2.2 2.5		132 S	134 110-••B	720	870	79.2	75.4	0.67	5.9	5.3	29.2	1.8	2.5	0.038	82	56
3 3.5		132 M	134 310-••B	720	870	80.0	79.0	0.68	7.8	5.5	39.8	2.4	2.6	0.045	96	56
4 5.2		160 MA	164 310-••B	715	850	84.1	84.7	0.69	10	5.2	54	2.1	2.4	0.071	110	62
5.5 6.3		160 M	164 300-••B	710	860	84.7	85.5	0.70	13.4	5.4	74	2.4	2.6	0.09	124	62
7.5 8.6		160 L	164 500-••B	715	855	86.3	87.2	0.70	18.1	5.4	100	2.4	2.8	0.121	139	62
11 13.5		180 L	184 500-••B	720	865	88.7	89.2	0.76	23.5	5.9	146	2.4	2.6	0.223	195	62
15 18		200 MLA	204 410-••B	740	885	91.1	91.3	0.82	29	7.4	194	1.8	3.0	0.45	275	62
18.5 21	HO	200 MLB	204 420-••B	745	885	91.4	91.6	0.81	36	6.7	237	1.7	2.8	0.54	300	62
18.5 21		225 SMA	224 210-••B	730	880	91.1	91.2	0.79	37	6.2	242	1.9	2.7	0.61	335	63
22 25		225 SMB	224 220-••B	730	880	91.5	91.7	0.77	45	6.0	288	1.9	2.7	0.68	350	63
30 34	HO	225 SMC	224 230-••B	735	880	91.8	92.1	0.79	60	7.2	390	2.1	3.3	0.75	380	63
30 34		250 SMA	254 210-••B	735	885	92.8	92.9	0.79	59	6.9	390	1.9	2.9	1.25	455	63
37 42	HO	250 SMB	254 220-••B	735	885	93.2	92.6	0.81	71	7.2	481	2.0	2.9	1.52	500	63
37 43		280 SMA	284 210-••A	741	890	93.5	0.0	0.78	74	7.3	477	1.8	3.0	1.85	570	65
45 55		280 SMB	284 220-••A	741	889	94.0	93.8	0.78	90	7.6	580	1.9	3.2	2.2	610	65
55 65	HO	280 SMC	284 230-••A	741	889	94.4	94.3	0.79	108	7.8	709	1.9	3.2	2.85	690	62
55 63		315 SMA	314 210-••A	740	889	94.1	94.0	0.81	104	7.1	710	1.6	2.7	3.2	840	70
75 85		315 SMB	314 220-••A	740	889	94.4	94.3	0.82	140	7.1	968	1.7	2.7	4.1	930	70
90 105		315 SMC	314 230-••A	740	889	94.8	94.7	0.82	167	7.4	1161	1.8	2.7	4.9	1000	70
110 125		315 MLA	314 410-••A	740	889	95.1	95.1	0.83	202	7.3	1420	1.8	2.7	5.8	1120	70
132 150		355 S	354 100-••A	742	890	95.0	94.9	0.80	250	5.8	1699	1.5	2.3	10.4	1550	75
160 180		355 SMA	354 210-••A	742	891	95.2	95.1	0.80	305	6.3	2059	1.7	2.4	12.5	1800	75
200 230		355 MLA	354 410-••A	743	893	95.5	95.1	0.77	395	6.6	2571	1.8	2.7	14.6	2100	75
250 285		355 MLC	354 430-••A	744	892	95.7	95.4	0.80	470	6.6	3209	1.5	3.0	15.8	2100	75
200 230		400 M	404 300-••A	743	893	95.5	95.1	0.77	395	6.6	2571	1.8	2.7	14.6	2150	75
250 285		400 MA	404 410-••A	744	892	95.7	95.4	0.80	470	6.6	3209	1.5	3.0	15.8	2150	75
315 360		400 LKA	404 510-••A	744	893	96.0	95.9	0.79	605	6.3	4043	1.4	2.6	16.5	2800	80
355 400		400 LKB	404 530-••A	744	893	96.2	96.0	0.79	680	6.6	4557	1.5	2.7	19	3050	80

¹⁾ Motors are certified for the voltages 380-400-415 V 50 Hz according to IEC 34-1. Values above are given for 400 V 50 Hz; data for other voltages on request.

²⁾ Temperature rise class F
³⁾ On request

Design HO = High-output design. The output of these motors is one step higher than the basic with rated outputs in accordance with CENELEC:

Detailed technical data on 440 V 60 Hz on request.

**Note: When ordering IIC motors, please add variant code:
461 = EEx d(e) design, Group IIC**

The two bullets in the product code indicate choice of mounting arrangement (page 116 , pos 12), voltage and frequency (below).

S	D	A ¹⁾	B ¹⁾	E	F ²⁾	X
400 VY 50 Hz	400 VΔ 50 Hz	380 VY 50 Hz	380 VΔ 50 Hz	500 VΔ 50 Hz	500 VY 50 Hz	Other rated voltage, connection or frequency, max. 690 V
230 VΔ 50 Hz	690 VY 50 Hz	220 VΔ 50 Hz	660 VY 50 Hz	575 VΔ 60 Hz ³⁾		
380 VY 50 Hz ³⁾	380 VΔ 50 Hz ³⁾					
415 VY 50 Hz ³⁾	415 VΔ 50 Hz ³⁾					
220 VΔ 50 Hz ³⁾	660 VY 50 Hz ³⁾	G ¹⁾	H ¹⁾	T ²⁾	U ²⁾	
440 VY 60 Hz ³⁾	440 VΔ 60 Hz ³⁾	415 VY 50 Hz	415 VΔ 50 Hz	660 VΔ 50 Hz	690 VΔ 50 Hz	

¹⁾ On request for motor sizes 315-400.

²⁾ On request for motor sizes 355-400.

³⁾ On request for motor sizes 80-280.