

**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 50 Hz 60 Hz	De- sign	Type designation M2JA/ M2KA	Product code 3GJA/ 3GKA	Speed		Efficiency		Power factor cos φ	Current		Torque			Moment of inertia J=1/4 GD ² kgm ²	Weight kg	Sound press- ure level L _p dB(A) 50 Hz
				r/min 50 Hz 60 Hz	FL 100% 3/4 75%	50 Hz 50 Hz	50 Hz 50 Hz		I _N A	I _s I _N	T Nm	T _s T _N	T _{max} T _N			
0.75 0.9		80 LS	081 310-••B	2905 3490	75.5 79.3	0.70	2.2 8.2	2.5 4.0 3.5	0.0009	24	59					
1.1 1.3		80 L	081 320-••B	2850 3420	78.3 77.5	0.82	2.6 6.4	3.7 2.5 2.9	0.0009	24	59					
1.5 1.75		90 S	091 110-••B	2880 3470	80.1 81.9	0.86	3.3 6.7	5 2.3 2.8	0.0019	32	65					
2.2 2.5		90 L	091 510-••B	2880 3480	83.0 84.0	0.88	4.6 7.6	7.3 2.7 3.3	0.0024	37	65					
3 3.5		100 L	101 510-••B	2910 3505	84.8 84.5	0.88	6.1 7.7	9.8 2.6 3.4	0.0041	45	66					
4 4.6		112 M	111 310-••B	2900 3470	84.8 86.2	0.90	7.7 7.2	13.2 2.4 3.1	0.005	46	67					
5.5 6.3		132 SA	131 110-••B	2855 3455	84.5 84.8	0.89	10.6 6.5	18.4 3.2 3.5	0.014	69	69					
7.5 8.6 ²⁾		132 SB	131 120-••B	2855 3455	86.3 87.0	0.90	14.7 8.5	25 3.4 3.5	0.016	79	69					
11 14.5		160 MA	161 310-••B	2930 3485	91.0 91.3	0.88	20 6.3	36 1.9 2.5	0.039	116	71					
15 17.5		160 M	161 300-••B	2920 3505	91.7 92.1	0.90	26.5 6.6	49 2.3 2.5	0.047	130	71					
18.5 21		160 L	161 500-••B	2920 3510	92.4 92.7	0.91	32 7.3	60 2.6 2.7	0.054	146	71					
22 26		180 M	181 300-••B	2930 3520	92.4 92.6	0.89	38.5 7.2	71 2.5 2.7	0.077	196	71					
30 35	HO	180 MB	181 520-••B	2945 3540	93.1 92.1	0.89	53 8.3	97 3.1 3.4	0.092	215	71					
30 35		200 MLA	201 410-••B	2955 3555	93.2 92.9	0.88	53 7.3	97 2.4 3.1	0.15	275	72					
37 43		200 MLB	201 420-••B	2950 3550	93.6 93.7	0.89	64 7.3	120 2.5 3.2	0.18	295	72					
45 52	HO	200 MLC	201 430-••B	2950 3545	93.8 0.0	0.89	78 7.3	146 2.6 3.3	0.19	300	72					
45 54		225 SMB	221 220-••B	2960 3555	93.9 93.5	0.88	79 7.3	145 2.5 2.8	0.26	370	74					
55 65	HO	225 SMC	221 230-••B	2960 3550	94.0 93.7	0.89	95 7.0	177 2.5 2.9	0.29	390	74					
55 65		250 SMA	251 210-••B	2970 3555	94.4 93.9	0.89	95 7.5	177 2.0 3.0	0.49	460	75					
75 86	HO	250 SMB	251 220-••B	2970 3565	95.2 95.4	0.90	127 7.3	241 2.1 3.0	0.57	500	75					
75 90		280 SMA	281 210-••A	2977 3570	94.9 94.3	0.88	131 7.5	241 2.3 3.3	0.8	590	77					
90 105		280 SMB	281 220-••A	2975 3568	95.1 94.6	0.90	152 7.4	289 2.3 2.9	0.9	630	77					
110 125	HO	280 SMC	281 230-••A	2977 3572	95.8 95.4	0.90	184 7.9	353 2.4 3.0	1.15	690	77					
110 125		315 SMA	311 210-••A	2982 3580	95.1 94.4	0.86	194 7.6	352 2.0 3.0	1.2	880	80					
132 155		315 SMB	311 220-••A	2982 3578	95.4 94.9	0.88	228 7.4	423 2.2 3.0	1.4	940	80					
160 185		315 SMC	311 230-••A	2981 3578	96.1 95.6	0.89	269 7.5	513 2.3 3.0	1.7	1130	80					
200 230		315 MLA	311 410-••A	2978 3576	96.3 95.9	0.90	334 7.8	641 2.6 3.0	2.1	1190	80					
250 285		355 S	351 100-••A	2980 3577	96.1 95.7	0.92	410 6.6	801 1.3 3.0	3.8	1550	83					
315 360		355 SMA	351 210-••A	2978 3573	96.6 96.4	0.92	510 7.7	1010 1.3 3.3	4.8	1750	83					
400 450		355 MLA	351 410-••A	2982 3578	96.6 96.4	0.92	655 7.7	1281 1.6 3.3	6.0	2150	83					
450 500 ²⁾		355 MLC	351 430-••A	2977 3575	96.6 96.4	0.92	730 7.9	1444 1.2 3.2	6.0	2150	83					
400 450		400 M	401 300-••A	2982 3578	96.6 96.4	0.92	655 7.7	1281 1.6 3.3	6.0	2200	83					
450 500 ²⁾		400 MA	401 310-••A	2977 3575	96.6 96.4	0.92	730 7.9	1444 1.2 3.2	6.0	2200	83					
500 ³⁾ ²⁾		400 LKA	401 510-••A	2980 ³⁾	96.6 96.5	0.93	795 7.0	1602 0.8 2.8	7.5	2850	85					
560 ³⁾ ²⁾		400 LKB	401 520-••A	2983 ³⁾	96.7 96.5	0.92	910 7.3	1793 0.7 3.4	8.5	2900	85					

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
380 VY 50 Hz	380 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
400 VY 50 Hz	400 VΔ 50 Hz	220 VΔ 50 Hz	660 VY 50 Hz	575 VΔ 60 Hz		
415 VY 50 Hz	415 VΔ 50 Hz					
220 VΔ 50 Hz	660 VY 50 Hz	G ¹⁾	H ¹⁾	T ²⁾	U ²⁾	
230 VΔ 50 Hz	690 VY 50 Hz	415 VY 50 Hz	415 VΔ 50 Hz	660 VΔ 50 Hz	690 VΔ 50 Hz	
440 VY 60 Hz	440 VΔ 60 Hz					

¹⁾ On request for motor sizes 315-400.

²⁾ On request for motor sizes 355-400.