

Technical data



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Performance data

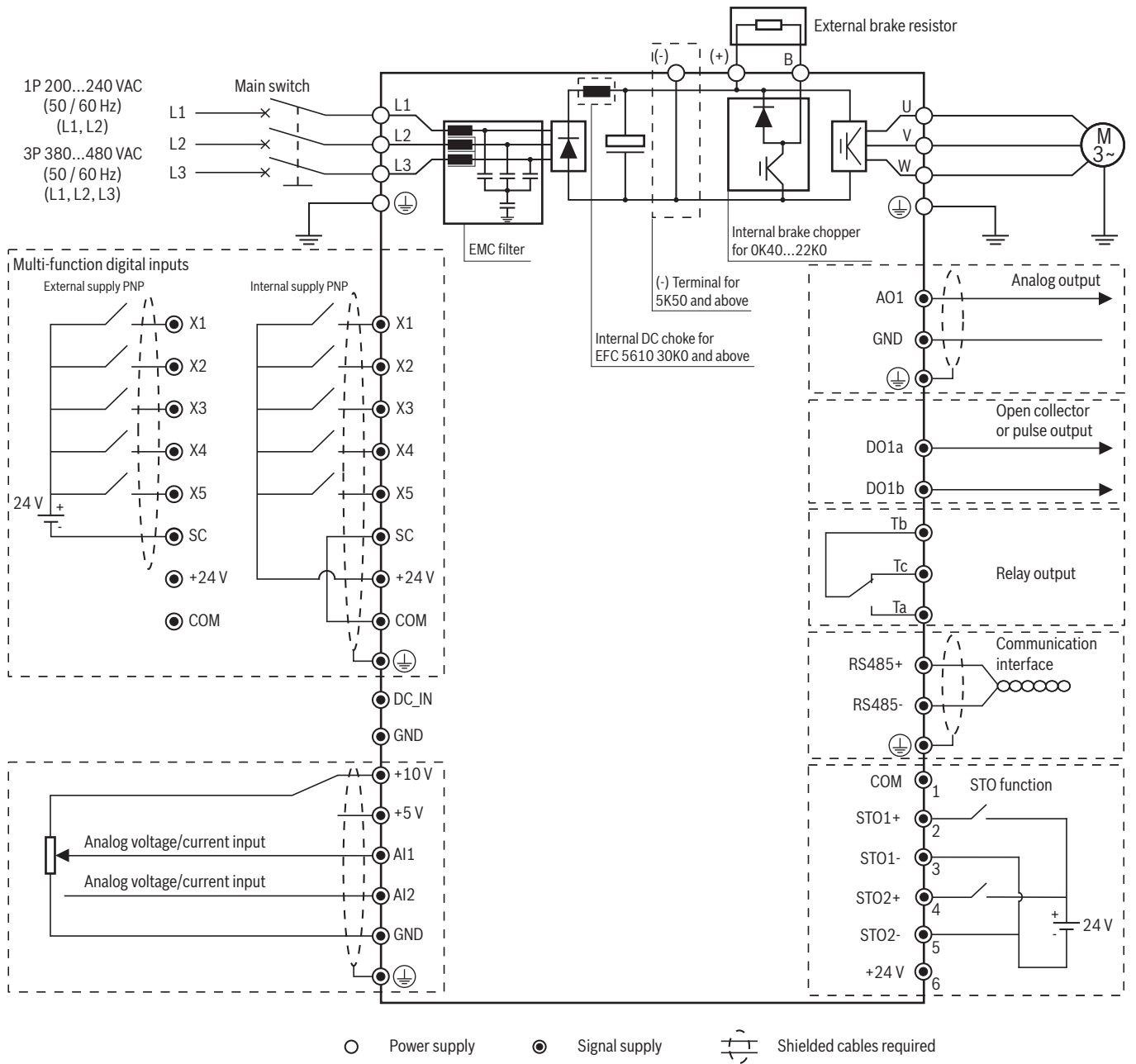
Type (1P 200 ... 240 V AC $\pm 10\%$)	Heavy duty		Normal duty	
	Rated continuous output current A 200 V/240 V	Motor rating kW (hp)	Rated continuous output current A 200 V/240 V	Motor rating kW (hp)
EFC3610-0K40-1P2-/EFC5610-0K40-1P2-	2.4 / 2.0	0.4 (0.5)	–	–
EFC3610-0K75-1P2-/EFC5610-0K75-1P2-	4.1 / 3.4	0.75 (1.0)	–	–
EFC3610-1K50-1P2-/EFC5610-1K50-1P2-	7.3 / 6.1	1.5 (2.0)	–	–
EFC3610-2K20-1P2-/EFC5610-2K20-1P2-	10.1 / 8.4	2.2 (3.0)	–	–

Type (3P 380 ... 480 V AC $-15\%/+10\%$)	Heavy duty		Normal duty	
	Rated continuous output current A 380 V/480 V	Motor rating kW (hp)	Rated continuous output current A 380 V/480 V	Motor rating kW (hp)
EFC3610-0K40-3P4-/EFC5610-0K40-3P4-	1.3 / 1.1	0.4 (0.5)	–	–
EFC3610-0K75-3P4-/EFC5610-0K75-3P4-	2.3 / 1.8	0.75 (1.0)	–	–
EFC3610-1K50-3P4-/EFC5610-1K50-3P4-	4.0 / 3.2	1.5 (2.0)	–	–
EFC3610-2K20-3P4-/EFC5610-2K20-3P4-	5.6 / 4.4	2.2 (3.0)	–	–
EFC3610-3K00-3P4-/EFC5610-3K00-3P4-	7.4 / 5.9	3.0 (4.0)	–	–
EFC3610-4K00-3P4-/EFC5610-4K00-3P4-	9.7 / 7.7	4.0 (5.0)	–	–
EFC3610-5K50-3P4-/EFC5610-5K50-3P4-	12.7 / 10.0	5.5 (7.5)	16.8 / 13.3	7.5 (10)
EFC3610-7K50-3P4-/EFC5610-7K50-3P4-	16.8 / 13.3	7.5 (10)	24.3 / 19.2	11.0 (15)
EFC3610-11K0-3P4-/EFC5610-11K0-3P4-	24.3 / 19.2	11.0 (15)	32.4 / 25.6	15.0 (20)
EFC3610-15K0-3P4-/EFC5610-15K0-3P4-	32.4 / 25.6	15.0 (20)	39.2 / 31.0	18.5 (25)
EFC3610-18K5-3P4-/EFC5610-18K5-3P4-	39.2 / 31.0	18.5 (25)	45.0 / 36.0	22.0 (30)
EFC3610-22K0-3P4-/EFC5610-22K0-3P4-	45.0 / 36.0	22.0 (30)	60.8 / 48.1	30.0 (40)
EFC5610-30K0-3P4-	60.8 / 48.1	30.0 (40)	73.7 / 58.3	37.0 (50)
EFC5610-37K0-3P4-	73.7 / 58.3	37.0 (50)	89.1 / 71.0	45.0 (60)
EFC5610-45K0-3P4-	89.0 / 71.0	45.0 (60)	108.0 / 86.0	55.0 (75)
EFC5610-55K0-3P4-	108.0 / 86.0	55.0 (75)	147.0 / 116.0	75.0 (100)
EFC5610-75K0-3P4-	147.0 / 116.0	75.0 (100)	176.0 / 139.0	90.0 (125)
EFC5610-90K0-3P4-	176.0 / 139.0	90.0 (125)	212.0 / 168.0	110.0 (150)

Type		EFC 3610/EFC 5610
Mains voltage	V	1 AC 200 ... 240 V ($-10\%/+10\%$)/3 AC 380 ... 480 ($-15\%/+10\%$)
Mains frequency	Hz	50 ... 60 ($\pm 5\%$)
Rated motor voltage	V	3-phase, 0 ... mains voltage
Output voltage	V	0 ... mains voltage
Output frequency	Hz	0 ... 400
Overload capacity		HD mode: 150% for 60 sec, 200% for 1 sec; ND mode: 120% for 60 sec

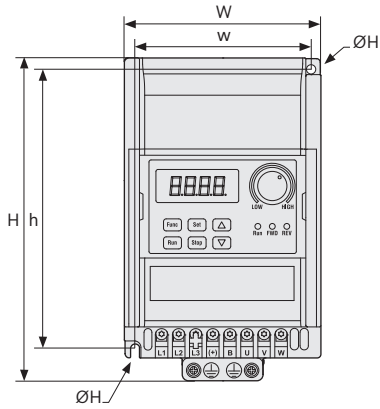
Type			EFC 3610		EFC 5610	
Functions						
Control technology			V/f		V/f, FOC or SVC (sensorless vector control)	
Pulse width modulation (PWM) for converters with 0.4 ... 18.5 kW (0.5 ... 30 hp)			1 ... 15 kHz, adjustable in 1 kHz increments			
Speed control range			1:50		1:200	
Start-up torque	V/f		100% at 1.5 Hz; 150% at 3 Hz			
	SVC		Not available		200% at 0.5 Hz	
Frequency resolution	Analog		1/1000 of output frequency			
	Digital		0.01 Hz			
Frequency setting tolerance	Analog		0.4%			
	Digital		0.04%			
V/f curve			Linear, quadratic, can be set as desired			
Ramps for acceleration and braking			Linear, S curve			
DC disc brake	Start frequency		0 ... 50 Hz			
	Braking time		0 ... 10 sec			
Automatic PWM frequency adjustment			Load-dependent PWM frequency adjustment			
Integrated control			Integrated sequential circuit			
Controller			PID			
Bus systems			On-board: Modbus			
			Ext. options: PROFIBUS, CANopen, Multi-Ethernet			
No. 24 V DC digital inputs			5 (one 50 kHz pulse train)			
No. 24 V DC/50 mA digital outputs			1 (32 kHz pulse train)			
No. 230 V AC/30 V DC/3 A relay outputs			1			
No. 0 ... 10 V or 0 ... 20 mA analog inputs			2			
No. 0 ... 10 V or 0 ... 20 mA analog outputs			1			
STO			Not available		SIL3 Cat. 4/PL e (0.4 ... 22 kW option)	
Display			Dust cover with 5 diagnostic LEDs; 5-digit LED (optional); LCD (optional)			
Status LED			Rotational direction and operating state			
Brake						
Brake chopper			Internal up to 22 kW (30 hp)			
Brake resistor			External			
Motor cable length						
Internal C3 filter	0.4 ... 4 kW (0.5 ... 5 hp)	m	15			
	5.5 ... 22 kW (7.5 ... 30 hp)	m	30			
	30 ... 90 kW (40 ... 125 hp)	m	50			
External C3 filter	0.4 ... 4 kW (0.5 ... 5 hp)	m	30			
	5.5 ... 22 kW (7.5 ... 30 hp)	m	50			
	30 ... 90 kW (40 ... 125 hp)	m	100			
Ambient conditions						
Ambient temperature (in operation)			-10 °C ... 45 °C (1.5% output power derating per 1° from 45 °C ... 55 °C)			
Max. operating elevation			Derating at 1,000 m or higher (1% of output power per 100 m)			
Relative humidity			< 90% (no condensation)			
IP rating			IP20			
Certifications			CE, UL, cUL, EAC, C-Tick (RCM) , RoHS, TÜV (with STO devices)			

Block diagram

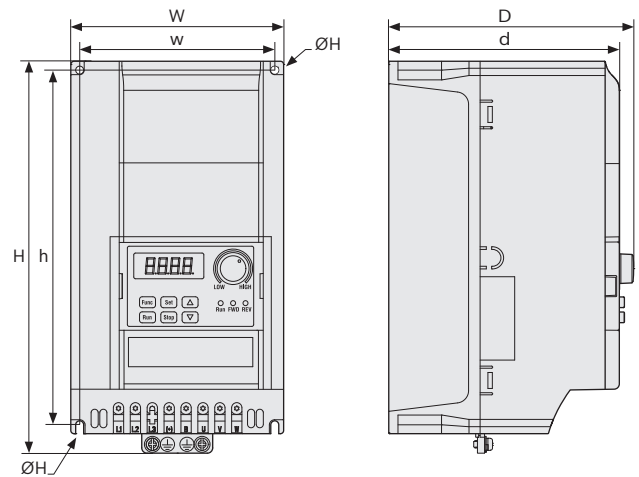


Device dimensions

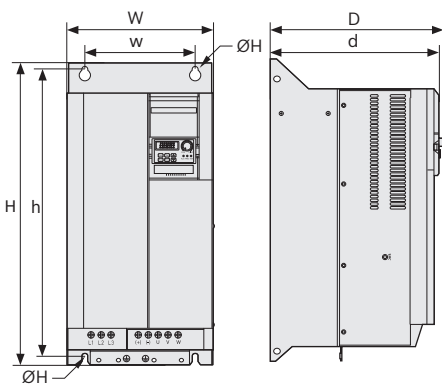
Sizes B ... D



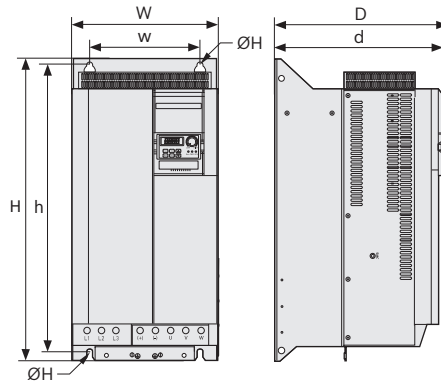
Sizes E ... G



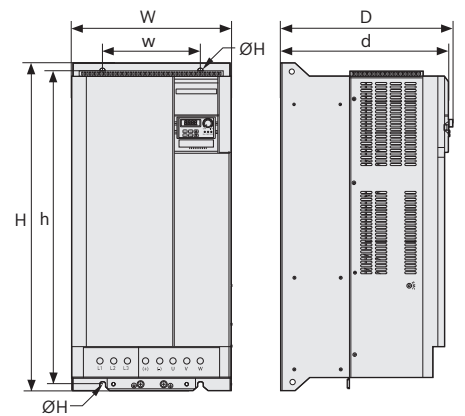
Size H



Size I



Size J



Size	Type	Dimensions [mm]							Mass [kg]
	(1P 200 ... 240 V AC ± 10 %)	W	w	H	h	D	d	ØH	
B	EFC3610-0K40-1P2- / EFC5610-0K40-1P2-	95	66	166	156	167	159	4.5	1.5
B	EFC3610-0K75-1P2- / EFC5610-0K75-1P2-	95	66	166	156	167	159	4.5	1.5
C	EFC3610-1K50-1P2- / EFC5610-1K50-1P2-	95	66	206	196	170	162	4.5	1.9
D	EFC3610-2K20-1P2- / EFC5610-2K20-1P2-	120	80	231	221	175	167	4.5	2.6
	(3P 380 ... 480 V AC -15 %/ $+10$ %)	W	w	H	h	D	d	ØH	
B	EFC3610-0K40-3P4- / EFC5610-0K40-3P4-	95	66	166	156	167	159	4.5	1.5
B	EFC3610-0K75-3P4- / EFC5610-0K75-3P4-	95	66	166	156	167	159	4.5	1.5
C	EFC3610-1K50-3P4- / EFC5610-1K50-3P4-	95	66	206	196	170	162	4.5	1.9
C	EFC3610-2K20-3P4- / EFC5610-2K20-3P4-	95	66	206	196	170	162	4.5	1.9
D	EFC3610-3K00-3P4- / EFC5610-3K00-3P4-	120	80	231	221	175	167	4.5	2.6
D	EFC3610-4K00-3P4- / EFC5610-4K00-3P4-	120	80	231	221	175	167	4.5	2.6
E	EFC3610-5K50-3P4- / EFC5610-5K50-3P4-	130	106	243	228	233	225	6.5	3.9
E	EFC3610-7K50-3P4- / EFC5610-7K50-3P4-	130	106	243	228	233	225	6.5	4.3
F	EFC3610-11K0-3P4- / EFC5610-11K0-3P4-	150	125	283	265	233	225	6.5	5.7
F	EFC3610-15K0-3P4- / EFC5610-15K0-3P4-	150	125	283	265	233	225	6.5	6.4
G	EFC3610-18K5-3P4- / EFC5610-18K5-3P4-	165	140	315	300	241	233	6.5	8
G	EFC3610-22K0-3P4- / EFC5610-22K0-3P4-	165	140	315	300	241	233	6.5	8.5
H	EFC5610-30K0-3P4-	250	200	510	492	272	264	7	27.5
H	EFC5610-37K0-3P4-	250	200	510	492	272	264	7	29.5
I	EFC5610-45K0-3P4-	265	200	585	555	325	317	11	39.0
I	EFC5610-55K0-3P4-	265	200	585	555	325	317	11	42.0
J	EFC5610-75K0-3P4-	325	200	760	727	342	334	11	54.0
J	EFC5610-90K0-3P4-	325	200	760	727	342	334	11	61.0

Ordering information

EFC3610-0K40-1P2-MDA-7P-NNNN-L1NN					
Motor control			Version		
EFC 3610 = V/f control			NN = without		
EFC 5610 = SVC vector control			L1 = STO (Safe Torque Off)		
Continuous power			Display		
E.g., 0K40 = 0.4 kW			NN = without (dust cover)		
Power connection			7P = 7-segment LED display		
1P2 = 1 x AC 200 ... 240 V			IP rating		
3P4 = 3 x AC 380 ... 480 V			A = IP20		
Fieldbus interface			EMC rating		
M = RTU Modbus			D = class C3 – industrial		

Type code
Frequency converter
EFC 3610/EFC 5610

EFC 3610 ordering information

Description	Type code	Material number
EFC 3610 0.4 kW, 1 AC 200 ... 240 V, 50/60 Hz, 2.4 A, LED display	EFC3610-0K40-1P2-MDA-7P-NNNNN-NNNN	R912005713
EFC 3610 0.75 kW, 1 AC 200 ... 240 V, 50/60 Hz, 4.1 A, LED display	EFC3610-0K75-1P2-MDA-7P-NNNNN-NNNN	R912005714
EFC 3610 1.5 kW, 1 AC 200 ... 240 V, 50/60 Hz, 7.3 A, LED display	EFC3610-1K50-1P2-MDA-7P-NNNNN-NNNN	R912005715
EFC 3610 2.2 kW, 1 AC 200 ... 240 V, 50/60 Hz, 10.1 A, LED display	EFC3610-2K20-1P2-MDA-7P-NNNNN-NNNN	R912005716
EFC 3610 0.4 kW, 3 AC 380 ... 480 V, 50/60 Hz, 1.3 A, LED display	EFC3610-0K40-3P4-MDA-7P-NNNNN-NNNN	R912005717
EFC 3610 0.75 kW, 3 AC 380 ... 480 V, 50/60 Hz, 2.3 A, LED display	EFC3610-0K75-3P4-MDA-7P-NNNNN-NNNN	R912005718
EFC 3610 1.5 kW, 3 AC 380 ... 480 V, 50/60 Hz, 4.0 A, LED display	EFC3610-1K50-3P4-MDA-7P-NNNNN-NNNN	R912005719
EFC 3610 2.2 kW, 3 AC 380 ... 480 V, 50/60 Hz, 5.6 A, LED display	EFC3610-2K20-3P4-MDA-7P-NNNNN-NNNN	R912005720
EFC 3610 3.0 kW, 3 AC 380 ... 480 V, 50/60 Hz, 7.4 A, LED display	EFC3610-3K00-3P4-MDA-7P-NNNNN-NNNN	R912005721
EFC 3610 4.0 kW, 3 AC 380 ... 480 V, 50/60 Hz, 9.7 A, LED display	EFC3610-4K00-3P4-MDA-7P-NNNNN-NNNN	R912005722
EFC 3610 5.5 kW, 3 AC 380 ... 480 V, 50/60 Hz, 12.7 A, LED display	EFC3610-5K50-3P4-MDA-7P-NNNNN-NNNN	R912005091
EFC 3610 7.5 kW, 3 AC 380 ... 480 V, 50/60 Hz, 16.8 A, LED display	EFC3610-7K50-3P4-MDA-7P-NNNNN-NNNN	R912005092
EFC 3610 11 kW, 3 AC 380 ... 480 V, 50/60 Hz, 24.3 A, LED display	EFC3610-11K0-3P4-MDA-7P-NNNNN-NNNN	R912005093
EFC 3610 15 kW, 3 AC 380 ... 480 V, 50/60 Hz, 32.4 A, LED display	EFC3610-15K0-3P4-MDA-7P-NNNNN-NNNN	R912005094
EFC 3610 18.5 kW, 3 AC 380 ... 480 V, 50/60 Hz, 39.2 A, LED display	EFC3610-18K5-3P4-MDA-7P-NNNNN-NNNN	R912005723
EFC 3610 22.0 kW, 3 AC 380 ... 480 V, 50/60 Hz, 45.2 A, LED display	EFC3610-22K0-3P4-MDA-7P-NNNNN-NNNN	R912006279
EFC 3610 0.4 kW, 1 AC 200 ... 240 V, 50/60 Hz, 2.4 A, dust cover	EFC3610-0K40-1P2-MDA-NN-NNNNN-NNNN	R912005698
EFC 3610 0.75 kW, 1 AC 200 ... 240 V, 50/60 Hz, 4.1 A, dust cover	EFC3610-0K75-1P2-MDA-NN-NNNNN-NNNN	R912005699
EFC 3610 1.5 kW, 1 AC 200 ... 240 V, 50/60 Hz, 7.3 A, dust cover	EFC3610-1K50-1P2-MDA-NN-NNNNN-NNNN	R912005700
EFC 3610 2.2 kW, 1 AC 200 ... 240 V, 50/60 Hz, 10.1 A, dust cover	EFC3610-2K20-1P2-MDA-NN-NNNNN-NNNN	R912005701
EFC 3610 0.4 kW, 3 AC 380 ... 480 V, 50/60 Hz, 1.3 A, dust cover	EFC3610-0K40-3P4-MDA-NN-NNNNN-NNNN	R912005702
EFC 3610 0.75 kW, 3 AC 380 ... 480 V, 50/60 Hz, 2.3 A, dust cover	EFC3610-0K75-3P4-MDA-NN-NNNNN-NNNN	R912005703
EFC 3610 1.5 kW, 3 AC 380 ... 480 V, 50/60 Hz, 4.0 A, dust cover	EFC3610-1K50-3P4-MDA-NN-NNNNN-NNNN	R912005704
EFC 3610 2.2 kW, 3 AC 380 ... 480 V, 50/60 Hz, 5.6 A, dust cover	EFC3610-2K20-3P4-MDA-NN-NNNNN-NNNN	R912005705
EFC 3610 3.0 kW, 3 AC 380 ... 480 V, 50/60 Hz, 7.4 A, dust cover	EFC3610-3K00-3P4-MDA-NN-NNNNN-NNNN	R912005706
EFC 3610 4.0 kW, 3 AC 380 ... 480 V, 50/60 Hz, 9.7 A, dust cover	EFC3610-4K00-3P4-MDA-NN-NNNNN-NNNN	R912005707
EFC 3610 5.5 kW, 3 AC 380 ... 480 V, 50/60 Hz, 12.7 A, dust cover	EFC3610-5K50-3P4-MDA-NN-NNNNN-NNNN	R912005708
EFC 3610 7.5 kW, 3 AC 380 ... 480 V, 50/60 Hz, 16.8 A, dust cover	EFC3610-7K50-3P4-MDA-NN-NNNNN-NNNN	R912005709
EFC 3610 11 kW, 3 AC 380 ... 480 V, 50/60 Hz, 24.3 A, dust cover	EFC3610-11K0-3P4-MDA-NN-NNNNN-NNNN	R912005710
EFC 3610 15 kW, 3 AC 380 ... 480 V, 50/60 Hz, 32.4 A, dust cover	EFC3610-15K0-3P4-MDA-NN-NNNNN-NNNN	R912005711
EFC 3610 18.5 kW, 3 AC 380 ... 480 V, 50/60 Hz, 39.2 A, dust cover	EFC3610-18K5-3P4-MDA-NN-NNNNN-NNNN	R912005712
EFC 3610 22.0 kW, 3 AC 380 ... 480 V, 50/60 Hz, 45.2 A, dust cover	EFC3610-22K0-3P4-MDA-NN-NNNNN-NNNN	R912006278

EFC 5610 with STO 0.4 ... 90 kW (0.5 ... 125 hp) ordering information

Description	Type code	Material number
EFC 5610 0.4 kW, 1 AC 200 ... 240 V, 50/60 Hz, 2.4 A, LED display, STO	EFC5610-0K40-1P2-MDA-7P-NNNNN-L1NN	R912007268
EFC 5610 0.75 kW, 1 AC 200 ... 240 V, 50/60 Hz, 4.1 A, LED display, STO	EFC5610-0K75-1P2-MDA-7P-NNNNN-L1NN	R912007269
EFC 5610 1.5 kW, 1 AC 200 ... 240 V, 50/60 Hz, 7.3 A, LED display, STO	EFC5610-1K50-1P2-MDA-7P-NNNNN-L1NN	R912007270
EFC 5610 2.2 kW, 1 AC 200 ... 240 V, 50/60 Hz, 10.1 A, LED display, STO	EFC5610-2K20-1P2-MDA-7P-NNNNN-L1NN	R912007271
EFC 5610 0.4 kW, 3 AC 380 ... 480 V, 50/60 Hz, 1.3 A, LED display, STO	EFC5610-0K40-3P4-MDA-7P-NNNNN-L1NN	R912007272
EFC 5610 0.75 kW, 3 AC 380 ... 480 V, 50/60 Hz, 2.3 A, LED display, STO	EFC5610-0K75-3P4-MDA-7P-NNNNN-L1NN	R912007273
EFC 5610 1.5 kW, 3 AC 380 ... 480 V, 50/60 Hz, 4.0 A, LED display, STO	EFC5610-1K50-3P4-MDA-7P-NNNNN-L1NN	R912007274
EFC 5610 2.2 kW, 3 AC 380 ... 480 V, 50/60 Hz, 5.6 A, LED display, STO	EFC5610-2K20-3P4-MDA-7P-NNNNN-L1NN	R912007275
EFC 5610 3.0 kW, 3 AC 380 ... 480 V, 50/60 Hz, 7.4 A, LED display, STO	EFC5610-3K00-3P4-MDA-7P-NNNNN-L1NN	R912007276
EFC 5610 4.0 kW, 3 AC 380 ... 480 V, 50/60 Hz, 9.7 A, LED display, STO	EFC5610-4K00-3P4-MDA-7P-NNNNN-L1NN	R912007277
EFC 5610 5.5 kW, 3 AC 380 ... 480 V, 50/60 Hz, 12.7 A, LED display, STO	EFC5610-5K50-3P4-MDA-7P-NNNNN-L1NN	R912007278
EFC 5610 7.5 kW, 3 AC 380 ... 480 V, 50/60 Hz, 16.8 A, LED display, STO	EFC5610-7K50-3P4-MDA-7P-NNNNN-L1NN	R912007279
EFC 5610 11 kW, 3 AC 380 ... 480 V, 50/60 Hz, 24.3 A, LED display, STO	EFC5610-11K0-3P4-MDA-7P-NNNNN-L1NN	R912007280
EFC 5610 15 kW, 3 AC 380 ... 480 V, 50/60 Hz, 32.4 A, LED display, STO	EFC5610-15K0-3P4-MDA-7P-NNNNN-L1NN	R912007281
EFC 5610 18.5 kW, 3 AC 380 ... 480 V, 50/60 Hz, 39.2 A, LED display, STO	EFC5610-18K5-3P4-MDA-7P-NNNNN-L1NN	R912007282
EFC 5610 22 kW, 3 AC 380 ... 480 V, 50/60 Hz, 45.2 A, LED display, STO	EFC5610-22K0-3P4-MDA-7P-NNNNN-L1NN	R912007283
EFC 5610 30 kW, 3 AC 380 ... 480 V, 50/60 Hz, 60.8 A, LED display, STO	EFC5610-30K0-3P4-MDA-7P-NNNNN-L1NN	R912005981
EFC 5610 37 kW, 3 AC 380 ... 480 V, 50/60 Hz, 73.7 A, LED display, STO	EFC5610-37K0-3P4-MDA-7P-NNNNN-L1NN	R912005982
EFC 5610 45 kW, 3 AC 380 ... 480 V, 50/60 Hz, 89.0 A, LED display, STO	EFC5610-45K0-3P4-MDA-7P-NNNNN-L1NN	R912005983
EFC 5610 55 kW, 3 AC 380 ... 480 V, 50/60 Hz, 108 A, LED display, STO	EFC5610-55K0-3P4-MDA-7P-NNNNN-L1NN	R912005984
EFC 5610 75 kW, 3 AC 380 ... 480 V, 50/60 Hz, 147 A, LED display, STO	EFC5610-75K0-3P4-MDA-7P-NNNNN-L1NN	R912005985
EFC 5610 90 kW, 3 AC 380 ... 480 V, 50/60 Hz, 176 A, LED display, STO	EFC5610-90K0-3P4-MDA-7P-NNNNN-L1NN	R912005986
EFC 5610 0.4 kW, 1 AC 200 ... 240 V, 50/60 Hz, 2.4 A, dust cover, STO	EFC5610-0K40-1P2-MDA-NN-NNNNN-L1NN	R912007066
EFC 5610 0.75 kW, 1 AC 200 ... 240 V, 50/60 Hz, 4.1 A, dust cover, STO	EFC5610-0K75-1P2-MDA-NN-NNNNN-L1NN	R912007067
EFC 5610 1.5 kW, 1 AC 200 ... 240 V, 50/60 Hz, 7.3 A, dust cover, STO	EFC5610-1K50-1P2-MDA-NN-NNNNN-L1NN	R912007068
EFC 5610 2.2 kW, 1 AC 200 ... 240 V, 50/60 Hz, 10.1 A, dust cover, STO	EFC5610-2K20-1P2-MDA-NN-NNNNN-L1NN	R912007069
EFC 5610 0.4 kW, 3 AC 380 ... 480 V, 50/60 Hz, 1.3 A, dust cover, STO	EFC5610-0K40-3P4-MDA-NN-NNNNN-L1NN	R912007042
EFC 5610 0.75 kW, 3 AC 380 ... 480 V, 50/60 Hz, 2.3 A, dust cover, STO	EFC5610-0K75-3P4-MDA-NN-NNNNN-L1NN	R912007043
EFC 5610 1.5 kW, 3 AC 380 ... 480 V, 50/60 Hz, 4.0 A, dust cover, STO	EFC5610-1K50-3P4-MDA-NN-NNNNN-L1NN	R912007044
EFC 5610 2.2 kW, 3 AC 380 ... 480 V, 50/60 Hz, 5.6 A, dust cover, STO	EFC5610-2K20-3P4-MDA-NN-NNNNN-L1NN	R912007045
EFC 5610 3.0 kW, 3 AC 380 ... 480 V, 50/60 Hz, 7.4 A, dust cover, STO	EFC5610-3K00-3P4-MDA-NN-NNNNN-L1NN	R912007046
EFC 5610 4.0 kW, 3 AC 380 ... 480 V, 50/60 Hz, 9.7 A, dust cover, STO	EFC5610-4K00-3P4-MDA-NN-NNNNN-L1NN	R912007047
EFC 5610 5.5 kW, 3 AC 380 ... 480 V, 50/60 Hz, 12.7 A, dust cover, STO	EFC5610-5K50-3P4-MDA-NN-NNNNN-L1NN	R912007048
EFC 5610 7.5 kW, 3 AC 380 ... 480 V, 50/60 Hz, 16.8 A, dust cover, STO	EFC5610-7K50-3P4-MDA-NN-NNNNN-L1NN	R912007049
EFC 5610 11 kW, 3 AC 380 ... 480 V, 50/60 Hz, 24.3 A, dust cover, STO	EFC5610-11K0-3P4-MDA-NN-NNNNN-L1NN	R912007050
EFC 5610 15 kW, 3 AC 380 ... 480 V, 50/60 Hz, 32.4 A, dust cover, STO	EFC5610-15K0-3P4-MDA-NN-NNNNN-L1NN	R912007051
EFC 5610 18.5 kW, 3 AC 380 ... 480 V, 50/60 Hz, 39.2 A, dust cover, STO	EFC5610-18K5-3P4-MDA-NN-NNNNN-L1NN	R912007266
EFC 5610 22 kW, 3 AC 380 ... 480 V, 50/60 Hz, 45.2 A, dust cover, STO	EFC5610-22K0-3P4-MDA-NN-NNNNN-L1NN	R912007267
EFC 5610 30 kW, 3 AC 380 ... 480 V, 50/60 Hz, 60.8 A, dust cover, STO	EFC5610-30K0-3P4-MDA-NN-NNNNN-L1NN	R912005988
EFC 5610 37 kW, 3 AC 380 ... 480 V, 50/60 Hz, 73.7 A, dust cover, STO	EFC5610-37K0-3P4-MDA-NN-NNNNN-L1NN	R912005989
EFC 5610 45 kW, 3 AC 380 ... 480 V, 50/60 Hz, 89.0 A, dust cover, STO	EFC5610-45K0-3P4-MDA-NN-NNNNN-L1NN	R912005990
EFC 5610 55 kW, 3 AC 380 ... 480 V, 50/60 Hz, 108 A, dust cover, STO	EFC5610-55K0-3P4-MDA-NN-NNNNN-L1NN	R912005991
EFC 5610 75 kW, 3 AC 380 ... 480 V, 50/60 Hz, 147 A, dust cover, STO	EFC5610-75K0-3P4-MDA-NN-NNNNN-L1NN	R912005992
EFC 5610 90 kW, 3 AC 380 ... 480 V, 50/60 Hz, 176 A, dust cover, STO	EFC5610-90K0-3P4-MDA-NN-NNNNN-L1NN	R912005993

Accessories

Description	Type code	Material number
Shield plate for 0.4 ... 4 kW (0.5 ... 5 hp)	FEAM03.1-001-NN-NNNN	R912006012
Shield plate for 5.5 ... 22 kW (7.5 ... 30 hp)	FEAM03.1-002-NN-NNNN	R912006013
Shield plate for 30 ... 37 kW (40 ... 50 hp)	FEAM03.1-003-NN-NNNN	R912006460
Shield plate for 45 ... 90 kW (60 ... 125 hp)	FEAM03.1-004-NN-NNNN	R912006461
Brake chopper for EFC5610 30 ... 55 kW (40 ... 75 hp)	FEAE07.1-EA1-NNNN	R912007181
Brake chopper for EFC5610 75 ... 90 kW (100 ... 125 hp)	FEAE07.1-EA2-NNNN	R912007182
LOT user panel, IP20, medium gray (RAL7046)	FPCC02.1-EANN-7P-NNNN	R912005783
LCD user panel, IP20, medium gray (RAL7046)	FPCC02.1-EANN-LP-NNNN	R912006375
Dust cover, IP20, medium gray (RAL7046)	FPCC02.1-EANN-NN-NNNN	R912005785
Mounting plate for IP20 user panel, medium gray (RAL7046)	FEAM02.1-EA-NN-NNNN	R912005787
2 m connection cable for user panel	FRKS0006/002.0	R912004657
3 m connection cable for user panel	FRKS0004/003.0	R912004410
Replacement plug set for EFC x610	FEAE05.1-B2-NNNN	R912006054

Brake resistors

Description	Type code	Material number
Brake resistor, 60 W 400 Ω xFC 230 V 400 W 10% OT	FCAR01.1W0060-N400R0-B-03-NNNN	R911370664
Brake resistor, 100 W 400 Ω xFC 230 V 400 W 20% OT	FCAR01.1W0100-N400R0-B-03-NNNN	R911370667
Brake resistor, 100 W 190 Ω xFC 230 V 750 W 10% OT	FCAR01.1W0100-N190R0-B-03-NNNN	R911370666
Brake resistor, 200 W 190 Ω xFC 230 V 750 W 20% OT	FCAR01.1W0200-N190R0-B-03-NNNN	R911370670
Brake resistor, 200 W 95 Ω xFC 230 V 1.5 kW 10% OT	FCAR01.1W0200-N095R0-B-03-NNNN	R911370669
Brake resistor, 400 W 95 Ω xFC 230 V 1.5 kW 20% OT	FCAR01.1W0400-N095R0-B-03-NNNN	R911370676
Brake resistor, 300 W 65 Ω xFC 230 V 2.2 kW 10% OT	FCAR01.1W0300-N065R0-B-03-NNNN	R911370674
Brake resistor, 500 W 65 Ω xFC 230 V 2.2 kW 20% OT	FCAR01.1W0500-N065R0-B-03-NNNN	R911370677
Brake resistor, 80 W 750 Ω xFC 400 V 400 W & 750 W 10% OT	FCAR01.1W0080-N750R0-B-05-NNNN	R911370665
Brake resistor, 150 W 750 Ω xFC 400 V 400 W & 750 W 20% OT	FCAR01.1W0150-N750R0-B-05-NNNN	R911370668
Brake resistor, 260 W 400 Ω xFC 400 V 1.5 kW 10% OT	FCAR01.1W0260-N400R0-B-05-NNNN	R911370671
Brake resistor, 520 W 350 Ω xFC 400 V 1.5 kW 20% OT	FCAR01.1W0520-N350R0-A-05-NNNN	R911370678
Brake resistor, 260 W 250 Ω xFC 400 V 2.2 kW 10% OT	FCAR01.1W0260-N250R0-B-05-NNNN	R911370673
Brake resistor, 520 W 230 Ω xFC 400 V 2.2 kW 20% OT	FCAR01.1W0520-N230R0-A-05-NNNN	R911370679
Brake resistor, 390 W 150 Ω xFC 400 V 3.0 kW & 4.0 kW 10% OT	FCAR01.1W0390-N150R0-B-05-NNNN	R911370675
Brake resistor, 780 W 140 Ω xFC 400 V 3.0 kW & 4.0 kW 20% OT	FCAR01.1W0780-N140R0-A-05-NNNN	R911370681
Brake resistor, 780 W 75 Ω xFC 400 V 5.5 kW & 7.5 kW 10% OT	FCAR01.1W0780-N075R0-A-05-NNNN	R911370680
Brake resistor, 1560 W 70 Ω xFC 400 V 5.5 kW & 7.5 kW 20% OT	FCAR01.1W1K56-N070R0-A-05-NNNN	R911370683
Brake resistor, 1560 W 40 Ω xFC 400 V 11 kW & 15 kW 10% OT	FCAR01.1W1K56-N040R0-A-05-NNNN	R911370682
Brake resistor, 2000 W 47 Ω xFC 400 V 11 kW 20% OT	FCAR01.1W02K0-N047R0-A-05-NNNN	R911370684
Brake resistor, 3000 W 34 Ω xFC 400 V 15 kW 20% OT	FCAR01.1W03K0-N034R0-A-05-NNNN	R911370685
Brake resistor, 3500 W 18.9 Ω xFC 400 V 18.5 & 22 kW 10% OT	FCAR01.1W3K50-N018R9-A-05-NNNN	R911378270
Brake resistor, 10000 W 28 Ω xFC 400 V 18.5 kW 20% OT	FCAR01.1W10K0-N028R0-A-05-NNNN	R911370687
Brake resistor, 4000 W 16 Ω xFC 400 V 30 & 37 kW 10% OT	FCAR01.1W4K00-N016R0-A-05-NNNN	R911378271
Brake resistor, 6500 W 10 Ω xFC 400 V 45 & 55 kW 10% OT	FCAR01.1W6K50-N010R0-A-05-NNNN	R911378272
Brake resistor, 10000 W 6 Ω xFC 400 V 75 & 90 kW 10% OT	FCAR01.1W10K0-N006R0-A-05-NNNN	R911378273

Option cards

Description	Type code	Material number
Option card module	FEAE02.1-EA-NNNN	R912006052
Relay card	FEAE04.1-IO2-NNNN	R912006051
I/O card	FEAE04.1-IO1-NNNN	R912006050
TTL/HTL Encoder card	FEAE04.1-EN1-NNNN	R912006414
Resolver card	FEAE04.1-EN2-NNNN	R912006415
I/O Plus card	FEAE04.1-IO3-NNNN	R912007257
CANopen interface	FEAE03.1-CO-NNNN	R912006133
PROFIBUS interface	FEAE03.1-PB-NNNN	R912006132
Multi-Ethernet interface	FEAE03.1-ET-NNNN	R912006134

Mains filters

Description	Type code	Material number
Mains filter, EFC x610 230 V 0.4 ... 0.75 kW (0.5 ... 1.0 hp)	FCAF01.1A-A050-E-0010-N-03-NNNN	R911370804
Mains filter, EFC x610 230 V 1.5 kW (2.0 hp)	FCAF01.1A-A050-E-0020-N-03-NNNN	R911370805
Mains filter, EFC x610 230 V 2.2 kW (3.0 hp)	FCAF01.1A-A050-E-0025-N-03-NNNN	R911370806
Mains filter, EFC x610 400 V 0.4 ... 4.0 kW (0.5 ... 5.0 hp)	FCAF01.1A-A050-E-0025-A-05-NNNN	R911370807
Mains filter, EFC x610 400 V 5.5 ... 7.5 kW (7.5 ... 10 hp)	FCAF01.1A-A050-E-0036-A-05-NNNN	R911370811
Mains filter, EFC x610 400 V 11 ... 15 kW (15 ... 20 hp)	FCAF01.1A-A050-E-0050-A-05-NNNN	R911370813
Mains filter, EFC x610 400 V 18.5 kW (25 hp)	FCAF01.1A-A050-E-0066-A-05-NNNN	R911371977
Mains filter, EFC x610 400 V 22 kW (30 hp)	FCAF01.1A-A050-E-0090-A-05-NNNN	R911370814
Mains filter, EFC 5610 400 V 30 ... 37 kW (40 ... 50 hp)	FCAF01.1A-A100-E-0120-A-05-NNNN	R911370815
Mains filter, EFC 5610 400 V 45 ... 55 kW (60 ... 75 hp)	FCAF01.1A-A100-E-0250-N-05-NNNN	R911370817
Mains filter, EFC 5610 400 V 75 ... 90 kW (100 ... 125 hp)	FCAF01.1A-A100-E-0320-N-05-NNNN	R911370818