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SIEMENS

SINAMICS V20

Product Information 07/2025

Corrections to the "SINAMICS V20 Converter Operating Instructions"

This Product Information describes errors and supplementary information in the "SINAMICS V20 Converter Operating Instructions" (Edition 12/2024), which emerged after going to press. Text in blue indicates newly added content, and crossed-out text in red indicates deleted information.

Correction to the 3 AC 400 V converter ordering data table (Chapter 2.1)

Corrections:

- 3 AC 400 V FSC converters: The 7.5 kW variant is added.
- 3 AC 400 V FSD converters: The 7.5 kW variant is removed.

Component	Rated output power	Rated input current	Rated output current	Output current at 480 V at 4kHz/40°C	Article number	
					unfiltered	filtered
FSA (without fan)	0.37 kW	1.7 A	1.3 A	1.3 A	6SL3210-5BE13-7UV1	6SL3210-5BE13-7CV1
	0.55 kW	2.1 A	1.7 A	1.6 A	6SL3210-5BE15-5UV1	6SL3210-5BE15-5CV1
	0.75 kW	2.6 A	2.2 A	2.2 A	6SL3210-5BE17-5UV1	6SL3210-5BE17-5CV1
	0.75 kW [1]	2.6 A	2.2 A	2.2 A	-	6SL3216-5BE17-5CV1
FSA (with single fan)	1.1 kW	4.0 A	3.1 A	3.1 A	6SL3210-5BE21-1UV1	6SL3210-5BE21-1CV1
	1.5 kW	5.0 A	4.1 A	4.1 A	6SL3210-5BE21-5UV1	6SL3210-5BE21-5CV1
	2.2 kW	6.4 A	5.6 A	4.8 A	6SL3210-5BE22-2UV1	6SL3210-5BE22-2CV1
FSB (with single fan)	3.0 kW	8.6 A	7.3 A	7.3 A	6SL3210-5BE23-0UV1	6SL3210-5BE23-0CV1
	4.0 kW	11.3 A	8.8 A	8.24 A	6SL3210-5BE24-0UV1	6SL3210-5BE24-0CV1
FSC (with single fan)	5.5 kW	15.2 A	12.5 A	11 A	6SL3210-5BE25-5UV1	6SL3210-5BE25-5CV1
	7.5 kW	20.7 A	16.5 A	16.5 A	6SL3210-5BE27-5UV1	6SL3210-5BE27-5CV1
FSD (with two fans)	~~7.5 kW~~	~~20.7 A~~	~~16.5 A~~	~~16.5 A~~	~~6SL3210-5BE27-5UV0~~	~~6SL3210-5BE27-5CV0~~
	11 kW	30.4 A	25 A	21 A	6SL3210-5BE31-1UV0	6SL3210-5BE31-1CV0
	15 kW	38.1 A	31 A	31 A	6SL3210-5BE31-5UV0	6SL3210-5BE31-5CV0
FSE (with two fans)	18.5 kW (HO) [2]	45 A	38 A	34 A	6SL3210-5BE31-8UV0	6SL3210-5BE31-8CV0
	22 kW (LO)	54 A	45 A	40 A		
	22 kW (HO)	54 A	45 A	40 A	6SL3210-5BE32-2UV0	6SL3210-5BE32-2CV0
	30 kW (LO)	72 A	60 A	52 A		

[1] This variant refers to the Flat Plate converter with a flat plate heatsink.

[2] "HO" and "LO" indicate high overload and low overload respectively. You can set the HO/LO mode through relevant parameter settings.

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Correction to the terminal specifications table (Chapter 4.2)

Corrections:

- 3 AC 400 V FSC converters: The terminal specifications for the 7.5 kW variant are added.
- 3 AC 400 V FSD converters: The terminal specifications for the 7.5 kW variant are removed.

Frame size	Rated output power (kW)	Crimp type	Mains and PE terminals					Motor/DC/braking resistor/output earth terminals				
			Cable cross-section [1]	d (mm)	W (mm)	L (mm)	Screw tightening torque (Nm/lbf.in) [2]	Cable cross-section [1]	d (mm)	W (mm)	L (mm)	Screw tightening torque (Nm/lbf.in) [2]
400 V												
A	0.37 ... 0.75	U	1.0 mm² (14)	≥ 3.7	< 8	> 22	1.0/8.9	1.0 mm² (14)	≥ 3.7	< 6.5	> 22	1.4/12
	1.1 ... 2.2		1.5 mm² (14)					1.5 mm² (14)				
B	3.0 ... 4.0		4 mm² (10)	≥ 3.7	< 8	> 25		2.5 mm² (12)	≥ 4.2	< 8	> 22	1.4/10.53
C	5.5		4 mm² (10)	≥ 4.2	< 9.9	> 25	1.4/10.5	4 mm² (10)	≥ 4.2	< 9.9	> 25	1.4/10.5
	7.5		6 mm² (10)					6 mm² (10)				
D	~~7.5~~		~~6 mm² (10)~~	≥ 5.2	< 12	> 28	2.4/21.2	~~6 mm² (10)~~	≥ 5.2	< 12	> 28	2.4/21.2
	11 ... 15		10 mm² (6)					10 mm² (6)				
E	18.5	O	10 mm² (6)	≥ 5.2	< 13	> 30		6 mm² (8)	≥ 5.2	< 13	> 30	
	22		16 mm² (4)					10 mm² (6)				
	30		25 mm² (3)					16 mm² (4)				
230 V												
AA/AB	0.12 ... 0.25	U	1.0 mm² (14)	≥ 4.2	< 7	> 22	1.0/8.9	1.0 mm² (14)	≥ 3.2	< 7	> 22	1.0/8.9
	0.37 ... 0.55		1.5 mm² (14)									
	0.75		2.0 mm² (14)									
AC	1.1 ... 1.5		4.0 mm² (12)					2.5 mm² (12)				
AD	2.2 ... 3.0		6 mm² (8)		< 10	> 25	1.6/14.2	4.0 mm² (12)	≥ 3.7	< 7.5	> 25	1.0/8.9

[1] Data in brackets indicates the corresponding AWG values.

[2] Tolerance: ± 10%

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Addition to the EMC-compliant installation of external line filter options (Chapter 4.4)

The ferrite core information for 400 V unfiltered frame sizes B and C converters is provided:

All 400 V converters must be mounted in a cabinet with a special EMC gasket around the door.

All the following ferrite cores are recommended in accordance with EN 55011.

For 400 V unfiltered frame sizes B and C converters fitted with the filters specified in Section B.1.7:

To meet the radiated and conducted emissions Class A, attach 1 x ferrite core of Type "Wurth 742-711-51" or equivalent in the vicinity of the motor output terminals (U, V, and W, excluding the PE terminal) of the converter.

For 400 V unfiltered frame size D converters fitted with the filters specified in Section B.1.7:

To meet the radiated and conducted emissions Class A, attach 2 x ferrite cores of Type "Wurth 742-715-5" or equivalent in the vicinity of the converter mains terminals; attach 1x ferrite core of Type "Wurth 742-712-21" or equivalent in the vicinity of the external line filter mains terminals.

For 400 V unfiltered frame size E converters fitted with the filters specified in Section B.1.7:

To meet the radiated and conducted emissions Class A, attach 1 x ferrite core of Type "Seiwa E04SRM563218" or equivalent in the vicinity of the converter mains terminals; attach 2 x ferrite cores of Type "Seiwa E04SRM563218" or equivalent in the vicinity of the motor terminals of the converter.

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Correction to the output current derating data table (Chapter A)

Correction: The frame size type for the 7.5 kW power rating is changed from FSD to FSC.

Output current deratings at different PWM frequencies and surrounding air temperatures

Three phase AC 400 V converters													
Frame size	Power rating [kW]	Current rating [A] at PWM frequency PWM frequency range: 2 kHz to 16 kHz (default: 4 kHz)											
		2 kHz			4 kHz			6 kHz			8 kHz		
		40 °C	50 °C	60 °C	40 °C	50 °C	60 °C	40 °C	50 °C	60 °C	40 °C	50 °C	60 °C
A	0.37	1.3	1.0	0.7	**1.3**	1.0	0.7	1.1	0.8	0.5	0.9	0.7	0.5
A	0.55	1.7	1.3	0.9	**1.7**	1.3	0.9	1.4	1.0	0.7	1.2	0.9	0.6
A	0.75	2.2	1.8	1.1	**2.2**	1.8	1.1	1.9	1.3	0.9	1.5	1.1	0.8
A	1.1	3.1	2.6	1.6	**3.1**	2.6	1.6	2.6	1.9	1.3	2.2	1.6	1.1
A	1.5	4.1	3.4	2.1	**4.1**	3.4	2.1	3.5	2.5	1.7	2.9	2.1	1.4
A	2.2	5.6	4.6	2.8	**5.6**	4.6	2.8	4.8	3.4	2.4	3.9	2.8	2.0
B	3.0	7.3	6.3	3.7	**7.3**	6.3	3.7	6.2	4.4	3.1	5.1	3.7	2.6
B	4.0	8.8	8.2	4.4	**8.8**	8.2	4.4	7.5	5.3	3.7	6.2	4.4	3.1
C	5.5	12.5	10.8	6.3	**12.5**	10.8	6.3	10.6	7.5	5.3	8.8	6.3	4.4
~~D~~ C	7.5	16.5	14.5	8.3	**16.5**	14.5	8.3	14.0	9.9	6.9	11.6	8.3	5.8
D	11	25.0	21.0	12.5	**25.0**	21.0	12.5	21.3	15.0	10.5	17.5	12.5	8.8
D	15	31.0	28.0	15.5	**31.0**	28.0	15.5	26.4	18.6	13.0	21.7	15.5	10.9
E	18.5 (HO)	38.0	34.5	19.0	**38.0**	34.5	19.0	32.3	22.8	16.0	26.6	19.0	13.3
E	22 (LO)	45.0	40.5	22.5	**45.0**	40.5	22.5	38.3	27.0	18.9	31.5	22.5	15.8
E	22 (HO)	45.0	40.5	22.5	**45.0**	40.5	22.5	38.3	27.0	18.9	31.5	22.5	15.8
E	30 (LO)	60.0	53.0	30.0	**60.0**	53.0	30.0	51.0	36.0	25.2	42.0	30.0	21.0

Three phase AC 400 V converters													
Frame size	Power rating [kW]	Current rating [A] at PWM frequency PWM frequency range: 2 kHz to 16 kHz (default: 4 kHz)											
		10 kHz			12 kHz			14 kHz			16 kHz		
		40 °C	50 °C	60 °C	40 °C	50 °C	60 °C	40 °C	50 °C	60 °C	40 °C	50 °C	60 °C
A	0.37	0.8	0.5	0.4	0.7	0.5	0.3	0.6	0.4	0.3	0.5	0.4	0.3
A	0.55	1.0	0.7	0.5	0.9	0.6	0.4	0.8	0.5	0.4	0.7	0.5	0.3
A	0.75	1.3	0.9	0.7	1.1	0.8	0.6	1.0	0.7	0.5	0.9	0.6	0.4
A	1.1	1.9	1.3	0.9	1.6	1.1	0.8	1.4	1.0	0.7	1.2	0.9	0.6
A	1.5	2.5	1.7	1.2	2.1	1.4	1.0	1.8	1.3	0.9	1.6	1.1	0.8
A	2.2	3.4	2.4	1.7	2.8	2.0	1.4	2.5	1.7	1.2	2.2	1.6	1.1
B	3.0	4.4	3.1	2.2	3.7	2.6	1.8	3.3	2.3	1.6	2.9	2.0	1.5
B	4.0	5.3	3.7	2.6	4.4	3.1	2.2	4.0	2.7	1.9	3.5	2.5	1.8
C	5.5	7.5	5.3	3.8	6.3	4.4	3.1	5.6	3.9	2.8	5.0	3.5	2.5
~~D~~ C	7.5	9.9	6.9	5.0	8.3	5.8	4.1	7.4	5.1	3.6	6.6	4.6	3.3
D	11	15.0	10.5	7.5	12.5	8.8	6.3	11.3	7.8	5.5	10.0	7.0	5.0
D	15	18.6	13.0	9.3	15.5	10.9	7.8	14.0	9.6	6.8	12.4	8.7	6.2
E	18.5 (HO)	22.8	16.0	11.4	19.0	13.3	9.5	17.1	11.8	8.4	15.2	10.6	7.6
E	22 (LO)	27.0	18.9	13.5	22.5	15.8	11.3	20.3	14.0	9.9	18.0	12.6	9.0
E	22 (HO)	27.0	18.9	13.5	22.5	15.8	11.3	20.3	14.0	9.9	18.0	12.6	9.0
E	30 (LO)	36.0	25.2	18.0	30.0	21.0	15.0	27.0	18.6	13.2	24.0	16.8	12.0

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Correction to the maximum power losses of the 400 V converters (Chapter A)

The following table shows the updated maximum power loss data for the 400 V converters.

Maximum power losses

Three phase AC 400 V converters																	
Frame size		FSA						FSB		FSC	~~FSD~~	FSD		FSE			
Power rating	(kW)	0.37	0.55	0.75	1.1	1.5	2.2	3	4	5.5	7.5	11	15	18.5	22	22	30
														HO	LO	HO	LO
	(hp)	0.75	0.75	1	1.5	2	3	5	5	7.5	10	15	20	25	30	30	40
														HO	LO	HO	LO
Maximum power loss (w) [1]		~~25~~ 31.6	~~28~~ 35.2	~~33~~ 40.7	~~43~~ 53.0	~~54~~ 66.0	~~68~~ 86.3	~~82~~ 113.7	~~100~~ 128.4	~~145~~ 188.3	~~180~~ 241.7	~~276~~ 369.0	~~338~~ 420.5	~~387~~ 548.3	~~475~~ 667.7	~~457~~ 604.7	~~626~~ 848.3

[1] With I/O fully loaded

Correction to the weight data of the 400 V converters FSA ... FSC (Chapter A)

The following table shows the updated weight data of the 400 V converters.

Frame size		Net weight (kg)		Gross weight (kg)	
		unfiltered	filtered	unfiltered	filtered
Three phase AC 400 V converters					
FSA	with fan	1.0	1.1	~~1.4~~ 1.2	~~1.4~~ 1.2
	without fan	~~0.9~~ 1.0	1.0 (0.9 [1])	~~1.3~~ 1.1	~~1.4 (1.3 [1])~~ 1.2 (1.0[1])
FSB		1.6	1.8	~~2.1~~ 1.8	~~2.3~~ 2.0
FSC	5.5 kW	2.4	2.6	~~3.1~~ 2.7	~~3.3~~ 2.9
~~FSD~~	7.5 kW	~~3.7~~ 2.5	~~4.0~~ 2.8	~~4.3~~ 2.8	~~4.6~~ 3.1
FSD	11 kW	3.7	4.1	4.5	4.8
	15 kW	3.9	4.3	4.6	4.9
FSE	18.5 kW	6.2	6.8	6.9	7.5
	22 kW	6.4	7.0	7.1	7.7
Single phase AC 230 V converters					
FSAA		0.6	0.7	1.0	1.1
FSAB		0.8	0.9	1.2	1.3
FSAC		1.2	1.4	1.3	1.5
FSAD		1.9	2.2	2.1	2.4

[1] Weight of Flat Plate converter (400 V 0.75 kW variant only).

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Correction to the chapter of braking resistors (Chapter B.1.4)

The following information is updated:

- Minimum resistance values of the braking resistors for the 400 V converter frame size C
- Information about the applicable converter frame sizes for braking resistors

NOTICE
Device damage caused by improper minimum resistance values A braking resistor with a resistance lower than the following minimum resistance values can damage the attached converter or braking module: • 400 V converter frame sizes A 0.37 kW ... 1.5 kW: 105 Ω • 400 V converter frame sizes A 2.2 kW: 80 Ω • 400 V converter frame sizes B: 45 Ω • ~~400 V converter frame sizes C: 35 Ω~~ • 400 V converter frame size C 5.5 kW: 35 Ω • 400 V converter frame size C 7.5 kW: 27 Ω • 400 V converter frame size D/E: 27 Ω • 230 V converter frame sizes AA ... AD: 37 Ω

Frame size	Converter power rating	Resistor article number	Continuous power	Peak power (5% duty cycle)	Resistance ± 10%	DC voltage rating
Three phase AC 400 V converters						
FSA	0.37 kW	6SL3201-0BE14-3AA0	75 W	1.5 kW	370 Ω	840 V +10%
	0.55 kW					
	0.75 kW					
	1.1 kW					
	1.5 kW					
	2.2 kW	6SL3201-0BE21-0AA0	200 W	4.0 kW	140 Ω	840 V +10%
FSB	3 kW					
	4 kW					
FSC	5.5 kW	6SL3201-0BE21-8AA0	375 W	7.5 kW	75 Ω	840 V +10%
~~FSD~~	7.5 kW					
FSD	11 kW	6SL3201-0BE23-8AA0	925 W	18.5 kW	30 Ω	840 V +10%
	15 kW					
FSE	18.5 kW	6SE6400-4BD21-2DA0	1200 W	24 kW	27 Ω	900 V
	22 kW					

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Resistor article number	Dimensions (mm)									Weight (kg)	Fixing screw		Applicable V20 frame sizes
	L	L1	L2	L3	D	D1	D2	W	W1		Size	Tightening torque (Nm)	
Three phase AC 400 V converters													
6SL3201-0BE14-3AA0	295	266	-	-	100	-	-	105	72	1.48	M4 (4)	3.0	FSA (0.37 to 1.5 kW)
6SL3201-0BE21-0AA0	345	316	-	-	100	-	-	105	72	1.80	M4 (4)	3.0	• FSA (2.2 kW) • FSB (3 to 4 kW)
6SL3201-0BE21-8AA0	345	316	-	-	100	-	-	175	142	2.73	M4 (4)	3.0	~~• FSC (5.5 kW)~~ ~~• FSD (7.5 kW)~~ FSC (5.5 to 7.5 kW)
6SL3201-0BE23-8AA0	490	460	-	-	140	-	-	250	217	6.20	M5 (4)	6.0	FSD (11 to 15 kW)
6SE6400-4BD21-2DA0	515	350	205	195	175	242	210	270	315	7.4	M4 (4)	3.0	FSE (18.5 to 22 kW)
Single phase AC 230 V converters													
6SE6400-4BC05-0AA0	230	217	-	-	43.5	-	-	72	56	1.0	M4 (4)	3.0	FSAA/FSAB (0.12 to 0.75 kW)
JJY:023151720007 [1]	217	200	-	-	60	-	-	30	10	0.7	M4 (2)	3.0	FSAC (1.1 to 1.5 kW)
JJY:023163720018 [1]	337	320	-	-	60	-	-	30	10	1.1	M4 (2)	3.0	FSAD (2.2 to 3 kW)

[1] Manufacturer: Heine Resistor GmbH

Correction to the chapter of line reactor (Chapter B.1.5)

The information about the applicable converter frame sizes for line reactors is updated:

Frame size	Converter power rating	Line reactor		
		Article number	Voltage	Current
Three phase AC 400 V converters				
FSA	0.37 kW	6SL3203-0CE13-2AA0	380 V to 480 V	4.0 A
	0.55 kW			
	0.75 kW			
	1.1 kW			
	1.5 kW	6SL3203-0CE21-0AA0	380 V to 480 V	11.3 A
	2.2 kW			
FSB	3 kW			
	4 kW			
FSC	5.5 kW	6SL3203-0CE21-8AA0	380 V to 480 V	22.3 A
~~FSD~~	7.5 kW			
FSD	11 kW	6SL3203-0CE23-8AA0	380 V to 480 V	47.0 A
	15 kW			
FSE	18.5 kW	6SL3203-0CJ24-5AA0	200 V to 480 V	53.6 A
	22 kW	6SL3203-0CD25-3AA0	380 V to 600 V	86.9 A

Article number 6SL3203-...	Dimensions (mm)						Weight (kg)	Fixing screw		Cable cross section (mm^2)	Applicable V20 frame sizes
	A	B	C	D	E	F		Size	Tightening torque (Nm)		
0CE13-2AA0	120	125	71	-	55	100	1.10	M4 (4)	3.0	2.5	FSA (0.37 to 1.1 kW)
0CE21-0AA0	140	125	71	-	55	100	2.10	M4 (4)	3.0	2.5	• FSA (1.5 to 2.2 kW) • FSB (3 to 4 kW)
0CE21-8AA0	145	125	81	91	65	100	2.95	M5 (4)	5.0	6.0	~~• FSC (5.5 kW)~~ ~~• FSD (7.5 kW)~~ FSC (5.5 to 7.5 kW)
0CE23-8AA0	220	190	91	-	68	170	7.80	M5 (4)	5.0	16.0	FSD (11 to 15 kW)

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Correction to the chapter of output reactor (Chapter B.1.6)

The information about the applicable converter frame sizes for output reactors is updated:

Frame size	Converter power rating	Output reactor		
		Article number	Voltage	Current
Three phase AC 400 V converters				
FSA	0.37 kW	6SL3202-0AE16-1CA0	380 V to 480 V	6.1 A
	0.55 kW			
	0.75 kW			
	1.1 kW			
	1.5 kW			
	2.2 kW	6SL3202-0AE18-8CA0	380 V to 480 V	9.0 A
FSB	3 kW			
	4 kW	6SL3202-0AE21-8CA0	380 V to 480 V	18.5 A
FSC	5.5 kW			
~~FSD~~	7.5 kW	6SL3202-0AE23-8CA0	380 V to 480 V	39.0 A
FSD	11 kW			
	15 kW			
FSE	18.5 kW	6SE6400-3TC03-8DD0	380 V to 480 V	45.0 A
	22 kW	6SE6400-3TC05-4DD0	380 V to 480 V	68.0 A

Article number 6SL3202-...	Dimensions (mm)						Weight (kg)	Fixing screw	Cable cross section (mm^2)	Applicable V20 frame sizes
	A	B	C	D	E	F		Size (Tightening torque)		
0AE16-1CA0	175	178	72.5	166	56.5	207	3.4	M4 * 4 (3.0 Nm)	4.0	Three phase AC 400 V converters: • FSA (0.37 to 1.5 kW) Single phase AC 230 V converters: • FSAA/FSAB (0.12 to 0.75 kW) • FSAC (1.1 kW)
0AE18-8CA0	180	178	72.5	166	56.5	207	3.9	M4 * 4 (3.0 Nm)	4.0	Three phase AC 400 V converters: • FSA (2.2 kW) • FSB (3 kW) Single phase AC 230 V converters: • FSAC (1.5 kW)
0AE21-8CA0	215	243	100	225	80.5	247	10.1	M5 * 4 (5.0 Nm)	10.0	Three phase AC 400 V converters: • FSB (4 kW) • FSC (5.5 kW) Single phase AC 230 V converters: • FSAD (2.2 to 3 kW)
0AE23-8CA0	235	243	114.7	225	84.7	257	11.2	M5 * 4 (5.0 Nm)	16.0	Three phase AC 400 V converters: ~~• FSD (7.5 to 15 kW)~~ • FSC (7.5 kW) • FSD (11 kW to 15 kW)

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Correction to the chapter of external line filter (Chapter B.1.7)

The information about the applicable converter frame sizes for line filters is updated.

Note that the article number of line filter for the 400 V 7.5 kW converter is 6SL3203-0BE21-8BA0.

Frame size	Converter power rating	Line filter		
		Article number	Voltage	Current
Three phase AC 400 V converters				
FSA	0.37 kW	6SL3203-0BE17-7BA0	380 V to 480 V	11.4 A
	0.55 kW			
	0.75 kW			
	1.1 kW			
	1.5 kW			
	2.2 kW			
FSB	3 kW	6SL3203-0BE21-8BA0	380 V to 480 V	23.5 A
	4 kW			
FSC	5.5 kW			
	7.5 kW			
FSD	~~7.5 kW~~	6SL3203-0BE23-8BA0	380 V to 480 V	49.4 A
	11 kW			
	15 kW			
FSE	18.5 kW	6SL3203-0BE27-5BA0	380 V to 480 V	72 A
	22 kW			

Article number	Dimensions (mm)					Weight (kg)	Fixing screw		Cable cross section (mm^2)		Applicable V20 frame sizes
	A	B	C	D	E		Size	Tightening torque (Nm)	Min.	Max.	
Three phase AC 400 V converters											
6SL3203-0BE17-7BA0	202	73	65	36.5	186	1.75	M4 (4)	0.6 to 0.8	1.0	2.5	FSA (0.37 to 2.2 kW)
6SL3203-0BE21-8BA0	297	100	85	80	281	4.0	M4 (4)	1.5 to 1.8	1.5	6.0	• FSB (3 to 4 kW) • FSC ~~(5.5 kW)~~ (5.5 to 7.5 kW)
6SL3203-0BE23-8BA0	359	140	95	120	343	7.3	M4 (4)	2.0 to 2.3	6.0	16.0	FSD ~~(7.5 to 15 kW)~~ (11 to 15 kW)
6SL3203-0BE27-5BA0	400	100	140	75	385	7.6	M6 (4)	3.0	16.0	50.0	FSE (18.5 to 22 kW)

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Correction to the chapter of residual current circuit breaker (Chapter B.1.11)

The information about the applicable converter frame sizes for residual current circuit breakers is updated:

Frame size	Converter power rating	Recommended RCCB article number [1]				
		RCCB Type A 30 mA	RCCB Type A 100 mA [2]	RCCB Type A(k) 30 mA [3]	RCCB Type B(k) 30 mA [4]	RCCB Type B(k) 300 mA [2]
Three phase AC 400 V converters						
FSA	0.37 kW to 2.2 kW	-	-	-	5SV3342-4	5SV3642-4
FSB	3 kW to 4 kW					
FSC	5.5 kW					
~~FSD~~	7.5 kW	-	-	-	5SV3344-4	5SV3644-4
FSD	11 kW	-	-	-	5SV3346-4	5SV3646-4
	15 kW					
FSE	18.5 kW	-	-	-	-	5SV3646-4
	22 kW	-	-	-	-	5SV3647-4
Single phase AC 230 V converters						
FSAA/FSAB	0.12 kW to 0.75 kW	5SV3311-6	-	5SV3312-6KK01	5SV3321-4	5SV3621-4
FSAC	1.1 kW	5SV3312-6	5SV3412-6		5SV3322-4	5SV3622-4
	1.5 kW	5SV3314-6	5SV3414-6	5SV3314-6KK01	5SV3324-4	5SV3624-4
FSAD	2.2 kW					
	3 kW	5SV3316-6	5SV3416-6	5SV3316-6KK01	5SV3326-4	5SV3626-4

[1] You can select commercially available 5SV3 series RCCBs (as given in the table) or equivalent.

[2] SINAMICS V20 single phase AC 230 V filtered converters FSAC and FSAD can be operated only on a type A 100 mA or type B(k) 300 mA RCCB.

[3] Letter "k" in the RCCB type names indicates RCCB types with time delay.

[4] SINAMICS V20 three phase AC 400 V filtered converters FSB to FSD cannot be operated on a type B(k) 30 mA RCCB.

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Addition to the chapter of migration mounting kit (Chapter B.1.13)

The following information about the migration mounting kit for the FSC converter is added:

- Ordering information
- Functionality
- Outline dimensions
- Mounting illustration

B.1.13 Migration mounting kit for FSAA ... FSAD and FSC

Article numbers:

- 6SL3266-1ER00-0VA0 (for frame size AA/AB)
- 6SL3266-1EB00-0VA0 (for frame size AC)
- 6SL3266-1EV00-0VA0 (for frame size AD)
- 6SL3266-1EW00-0VA0 (for frame size C)

Functionality

As frame size FSAA/FSAB has smaller outline dimensions, this migration mounting kit is supplied for easy installation of frame size AA/AB converters to the G110 control cabinet or DIN rail. If the holes on your control cabinet were drilled to match the frame size A, you can drill additional holes according to the outline dimensions of FSAA/FSAB, or use this option for installation.

Frame size FSAC can be directly installed to an FSA DIN rail mounting kit. You can also use the migration mounting kit for FSAC to install the FSAC to an FSB DIN rail mounting kit. If the holes on your control cabinet were drilled to match the frame size B, you can drill additional holes according to the outline dimensions of FSAC, or use this option for an FSAC converter.

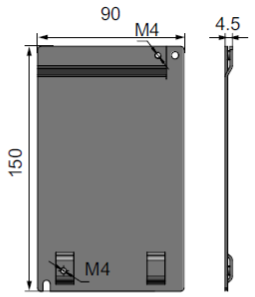
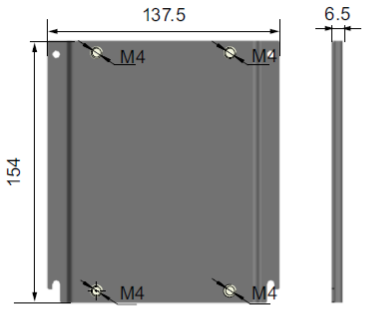
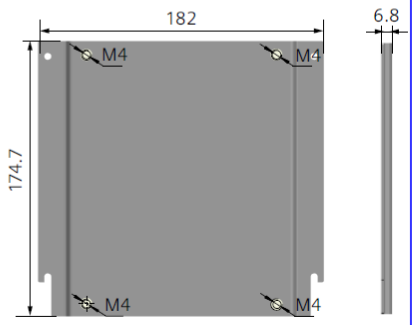
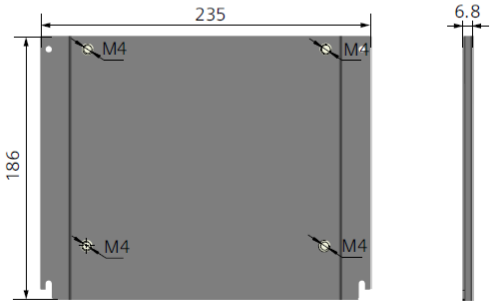
If the holes on your control cabinet were drilled to match the frame size C, you can drill additional holes according to the outline dimensions of FSAD, or use this option for installation.

With the optimized design, the 400 V converter frame size C in a 7.5 kW power rating has more compact outline dimensions. If your control cabinet has holes drilled for frame size D, you can either drill additional holes based on the FSC outline dimensions or use this option for installation.

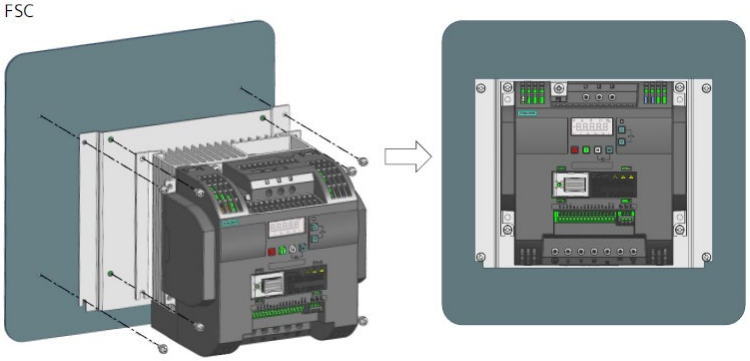
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Outline dimensions (mm)

For FSAA/FSAB	For FSAC
 2 × M4 screws	 4 × M4 screws
For FSAD	**For FSC**
 4 × M4 screws	 4 × M4 screws
Maximum tightening torque: 2.0 Nm; screw length: 6 mm ... 10 mm	

FSC



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Correction to the chapter of replacement fans (Chapter B.2)

The article number of replacement fans for FSC is updated:

Article numbers

- 6SL3200-0UF06-0AA0 (for frame size AC)
- 6SL3200-0UF07-0AA0 (for frame size AD)
- 6SL3200-0UF01-0AA0 (for frame size A)
- 6SL3200-0UF02-0AA0 (for frame size B)
- ~~6SL3200-0UF03-0AA0 (for frame size C)~~ 6SL3200-0UF03-0AA1 (for frame size C)
- 6SL3200-0UF04-0AA0 (for frame size D)
- 6SL3200-0UF05-0AA0 (for frame size E)

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