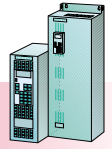


SIMOVERT MASTERDRIVES Motion Control

Selection and ordering data



Compact and chassis units

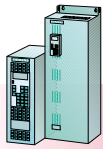
Necessary/recommended line-side power options

AFE rectifier/regenerative units

Rated rectifier/ regenerative output at $\cos \varphi = 1$ and 400 V supply voltage P_{rated}	AFE inverter	AFE reactor	Supply connection module	Rated current	Power loss	Weight, approx.	Dimensions supply connection module	Dimensions AFE reactor
	with CUSA closed- loop control board 6SE7090-0XX84-0BJ0				P_v		W x H x D	W x H x D
kW	Order No.	Order No.	Order No.	A	W	kg (lb)	mm x mm x mm (in x in x in)	mm x mm x mm (in x in x in)
Supply voltage 3-ph. 380 V AC –20 % to 460 V +5 %								
Compact units								
6.8	6SE7021-0EA81	6SE7021-3ES87-1FG0 ¹⁾	–	13	17	8 (17.6)	–	270 x 250 x 196 (10.6 x 9.8 x 7.7)
9	6SE7021-3EB81	6SE7021-3ES87-1FG0 ¹⁾	–	13	23	8 (17.6)	–	270 x 250 x 196 (10.6 x 9.8 x 7.7)
12	6SE7021-8EB81	6SE7022-6ES87-1FG0 ¹⁾	–	26	30	12 (26.5)	–	300 x 250 x 185 (11.8 x 9.8 x 7.3)
17	6SE7022-6EC81	6SE7022-6ES87-1FG0 ¹⁾	–	26	43	12 (26.5)	–	300 x 250 x 185 (11.8 x 9.8 x 7.3)
23	6SE7023-4EC81	6SE7024-7ES87-1FG0 ¹⁾	–	47	58	20 (44.1)	–	360 x 300 x 185 (14.2 x 11.8 x 7.3)
32	6SE7024-7ED81	6SE7024-7ES87-1FG0 ¹⁾	–	47	80	20 (44.1)	–	360 x 300 x 185 (14.2 x 11.8 x 7.3)
40	6SE7026-0ED81	6SE7027-2ES87-1FG0 ¹⁾	–	72	100	32 (70.6)	–	380 x 300 x 196 (15.0 x 11.8 x 7.7)
49	6SE7027-2ED81	6SE7027-2ES87-1FG0 ¹⁾	–	72	123	32 (70.6)	–	380 x 300 x 196 (15.0 x 11.8 x 7.7)
Chassis units								
63	6SE7031-0EE80	–	6SE7131-0EE83-2NA0	92	500	110 (242.6)	274 x 1310 x 408 (10.8 x 51.6 x 16.1)	300 x 267 x 212 (11.8 x 10.5 x 8.3)
85	6SE7031-2EF80	–	6SE7131-2EF83-2NA0	124	630	160 (352.8)	440 x 1310 x 470 (17.3 x 51.6 x 18.5)	355 x 340 x 212 (14.0 x 13.4 x 8.3)
100	6SE7031-5EF80	–	6SE7131-5EF83-2NA0	146	710	165 (363.8)	440 x 1310 x 470 (17.3 x 51.6 x 18.5)	355 x 340 x 272 (14.0 x 13.4 x 10.7)
125	6SE7031-8EF80	–	6SE7131-8EF83-2NA0	186	860	170 (374.6)	440 x 1310 x 470 (17.3 x 51.6 x 18.5)	355 x 340 x 278 (14.0 x 13.4 x 10.9)
143	6SE7032-1EG80	–	6SE7132-1EG83-2NA0	210	1100	235 (518.2)	580 x 1339 x 459 (22.8 x 52.7 x 18.1)	420 x 389 x 312 (16.5 x 15.3 x 12.3)
177	6SE7032-6EG80	–	6SE7132-6EG83-2NA0	260	1300	240 (529.2)	580 x 1339 x 459 (22.8 x 52.7 x 18.1)	420 x 389 x 312 (16.5 x 15.3 x 12.3)
214	6SE7033-2EG80	–	6SE7133-2EG83-2NA0	315	1500	295 (650.5)	580 x 1339 x 459 (22.8 x 52.7 x 18.1)	480 x 380 x 376 (18.9 x 15.0 x 14.8)
250	6SE7033-7EG80	–	6SE7133-7EG83-2NA0	370	1820	305 (672.5)	580 x 1339 x 459 (22.8 x 52.7 x 18.1)	480 x 380 x 376 (18.9 x 15.0 x 14.8)

Required components for compact units

1) Caution!
For compact units, the required system components must be ordered separately.



Compact and chassis units

SIMOVERT MASTERDRIVES Motion Control

Selection and ordering data

Necessary/recommended line-side power options

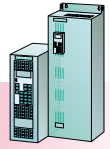
Rated rectifier/ regenerative output at $\cos \varphi = 1$ and 400 V supply voltage P_{rated}	AFE inverter with CUSA closed- loop control board 6SE7090-0XX84-0BJ0	Main contactor/ AC contactor ¹⁾ 230 V control	Precharging			Precharging		Supply voltage detection VSB
			Rated current	Precharging contactor ¹⁾ with Compact AFE 24 V	Rated current	Resistor 3 required	Rated value	For DIN rail mounting with enclosure
kW	Order No.	Order No.	A	Order No.	A	Order No.	Ω	Order No.
Supply voltage 3-ph. 380 V AC -20 % to 460 V +5 %								
Compact units								
6.8	6SE7021-0EA81	3RT10 15	16	3RT10 16-.BB4.	20	6SX7010-0AC81	22	6SX7010-0EJ00
9	6SE7021-3EB81	3RT10 16	20	3RT10 16-.BB4.	20	6SX7010-0AC81	22	6SX7010-0EJ00
12	6SE7021-8EB81	3RT10 16	20	3RT10 16-.BB4.	20	6SX7010-0AC81	22	6SX7010-0EJ00
17	6SE7022-6EC81	3RT10 25	35	3RT10 16-.BB4.	20	6SX7010-0AC80	10	6SX7010-0EJ00
23	6SE7023-4EC81	3RT10 34	45	3RT10 16-.BB4.	20	6SX7010-0AC80	10	6SX7010-0EJ00
32	6SE7024-7ED81	3RT10 35	55	3RT10 16-.BB4.	20	6SX7010-0AC80	10	6SX7010-0EJ00
40	6SE7026-0ED81	3RT10 44	90	3RT10 16-.BB4.	20	6SX7010-0AC80	10	6SX7010-0EJ00
49	6SE7027-2ED81	3RT10 44	90	3RT10 16-.BB4.	20	6SX7010-0AC80	10	6SX7010-0EJ00
Chassis units								
63	6SE7031-0EE80	Integrated into the supply connection module						
85	6SE7031-2EF80	Integrated into the supply connection module						
100	6SE7031-5EF80	Integrated into the supply connection module						
125	6SE7031-8EF80	Integrated into the supply connection module						
143	6SE7032-1EG80	Integrated into the supply connection module						
177	6SE7032-6EG80	Integrated into the supply connection module						
214	6SE7033-2EG80	Integrated into the supply connection module						
250	6SE7033-7EG80	Integrated into the supply connection module						

Required components for compact units

1) Refer to Catalog NS K.

SIMVERT MASTERDRIVES Motion Control

Selection and ordering data



Recommended line-side power options

Compact and chassis units

AFE rectifier/regenerative units (continued)

Rated rectifier/regenerative output at $\cos \varphi = 1$ and 400 V supply voltage P_{rated} kW	AFE inverter with CUSA closed-loop control board 6SE7090-0XX84-0BJ0	Load switch disconnect ²⁾		Load switch disconnect with fuse fittings ²⁾			Fuse load switch disconnect ¹⁾²⁾			Semiconductor protection fuses operation class gR ³⁾ incl. cable protection		
		Order No.	Order No.	Rated current A	Order No.	Rated current A	Max. fuse size	Order No.	Rated current A	Max. fuse size	Order No.	Rated current A
Supply voltage 3-ph. 380 V AC –20 % to 460 V +5 %												
Compact units												
6.8	6SE7021-0EA81	3KA50 30-1EE01	63	3KL50 30-1EB01	63	00	3NP40 10-0CH01	100	000	3NE1 813-0	16	000
9	6SE7021-3EB81	3KA50 30-1EE01	63	3KL50 30-1EB01	63	00	3NP40 10-0CH01	100	000	3NE1 814-0	20	000
12	6SE7021-8EB81	3KA50 30-1EE01	63	3KL50 30-1EB01	63	00	3NP40 10-0CH01	100	000	3NE1 815-0	25	000
17	6SE7022-6EC81	3KA50 30-1EE01	63	3KL50 30-1EB01	63	00	3NP40 10-0CH01	100	000	3NE1 803-0	35	000
23	6SE7023-4EC81	3KA50 30-1EE01	63	3KL50 30-1EB01	63	00	3NP40 10-0CH01	100	000	3NE1 802-0	40	000
32	6SE7024-7ED81	3KA50 30-1EE01	63	3KL50 30-1EB01	63	00	3NP40 10-0CH01	100	000	3NE1 818-0	63	000
40	6SE7026-0ED81	3KA51 30-1EE01	80	3KL52 30-1EB01	125	00	3NP40 10-0CH01	100	000	3NE1 820-0	80	000
49	6SE7027-2ED81	3KA51 30-1EE01	80	3KL52 30-1EB01	125	00	3NP40 10-0CH01	100	000	3NE1 820-0	80	000
Chassis units												
63	6SE7031-0EE80	Integrated into the supply connection module										
85	6SE7031-2EF80	Integrated into the supply connection module										
100	6SE7031-5EF80	Integrated into the supply connection module										
125	6SE7031-8EF80	Integrated into the supply connection module										
143	6SE7032-1EG80	Integrated into the supply connection module										
177	6SE7032-6EG80	Integrated into the supply connection module										
214	6SE7033-2EG80	Integrated into the supply connection module										
250	6SE7033-7EG80	Integrated into the supply connection module										

Rated rectifier/regenerative output at $\cos \varphi = 1$ and 400 V supply voltage P_{rated} kW	AFE inverter with CUSA closed-loop control board 6SE7090-0XX84-0BJ0	Radio-interference suppression filter		Clean Power Filter		
		Order No.	Order No.	Class	Power loss W	Base radio-interference suppression Order No.
Supply voltage 3-ph. 380 V AC –20 % to 460 V +5 %						
Compact units						
6.8	6SE7021-0EA81	6SE7021-0ES87-0FB1	A1	6SE7021-0EB87-1FC0	200	6SX7010-0FB10
9	6SE7021-3EB81	6SE7021-8ES87-0FB1	A1	6SE7021-8EB87-1FC0	250	6SX7010-0FB10
12	6SE7021-8EB81	6SE7021-8ES87-0FB1	A1	6SE7021-8EB87-1FC0	250	6SX7010-0FB10
17	6SE7022-6EC81	6SE7023-4ES87-0FB1	A1	6SE7022-6EC87-1FC0	300	6SX7010-0FB10
23	6SE7023-4EC81	6SE7023-4ES87-0FB1	A1	6SE7023-4EC87-1FC0	400	6SX7010-0FB10
32	6SE7024-7ED81	6SE7027-2ES87-0FB1	A1	6SE7024-7ED87-1FC0	500	6SX7010-0FB10
40	6SE7026-0ED81	6SE7027-2ES87-0FB1	A1	6SE7027-2ED87-1FC0	600	6SX7010-0FB10
49	6SE7027-2ED81	6SE7027-2ES87-0FB1	A1	6SE7027-2ED87-1FC0	600	6SX7010-0FB10
Chassis units						
63	6SE7031-0EE80	Option L00 for supply connection module	A1	Integrated into the supply connection module		
85	6SE7031-2EF80	Option L00 for supply connection module	A1	Integrated into the supply connection module		
100	6SE7031-5EF80	Option L00 for supply connection module	A1	Integrated into the supply connection module		
125	6SE7031-8EF80	Option L00 for supply connection module	A1	Integrated into the supply connection module		
143	6SE7032-1EG80	Option L00 for supply connection module	A1	Integrated into the supply connection module		
177	6SE7032-6EG80	Option L00 for supply connection module	A1	Integrated into the supply connection module		
214	6SE7033-2EG80	Option L00 for supply connection module	A1	Integrated into the supply connection module		
250	6SE7033-7EG80	Option L00 for supply connection module	A1	Integrated into the supply connection module		

1) Fuse switch-disconnectors: Please take into account the size of the cable-protection fuses and semiconductor protection fuses.

2) Can be optionally used, depending on your requirements. For further information, refer to Catalog NS K.

3) The cable cross-sections must be dimensioned acc. to DIN VDE 0100, VDE 0298, Part 4, and as a function of the rated fuse currents.