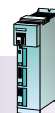


SIMOVERT MASTERDRIVES Motion Control

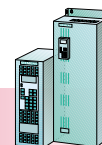
Selection and ordering data

Recommended DC link system components

Compact PLUS units



Compact and chassis units



Braking units and braking resistors

Braking power				Braking unit				Braking resistor, external			
Rated braking power	Short-time braking power	Continuous braking power with external braking resistor	Continuous braking power with internal braking resistor		Dimensions W x H x D	For dimension drawing, see Section 7	Weight, approx.		Resistance ⁷⁾	Dimensions W x H x D	For dimension drawing, see Section 7
P_{20}	P_3	P_{DZ}	P_{DB}	Order No.	mm x mm x mm (in x in x in)	No.	kg (lb)	Order No.	Ω	mm x mm x mm (in x in x in)	No.
kW	kW	kW	kW								kg (lb)
DC link voltage 510 V to 650 V DC											
For Compact PLUS converter											
2	3	–	0.15					6SE7013-2ES87-2DC0	200	44 x 250 x 120 (1.73 x 9.84 x 4.72)	10a 1.4 (3.1)
4	6	–	0.3 ⁸⁾					6SE7016-3ES87-2DC0	100	44 x 250 x 120 (1.73 x 9.84 x 4.72)	10a 1.9 (4.2)
5	7.5	1.25	–	– ¹⁾				6SE7018-0ES87-2DC0²⁾	80	145 x 180 x 540 (5.7 x 7.1 x 21.3)	11 6 (13.2)
10	15	2.5	–	– ¹⁾				6SE7021-6ES87-2DC0²⁾	40	145 x 360 x 540 (5.7 x 14.2 x 21.3)	11 11.5 (25.4)
12	18	–	0.9 ⁹⁾					6SE7022-0ES87-2DC0	33.3	134 x 350 x 203 (5.28 x 13.78 x 7.99)	11a 6.8 (15)
20	30	5	–	– ¹⁾				6SE7023-2ES87-2DC0³⁾	20	430 x 302 x 485 (16.9 x 11.9 x 19.1)	12 17 (37.5)
For Compact PLUS rectifier units											
2	3	–	0.15					6SE7013-2ES87-2DC0	200	44 x 250 x 120 (1.73 x 9.84 x 4.72)	10a 1.4 (3.1)
4	6	–	0.3 ⁸⁾					6SE7016-3ES87-2DC0	100	44 x 250 x 120 (1.73 x 9.84 x 4.72)	10a 1.9 (4.2)
5	7.5	1.25	–	– ¹⁾				6SE7018-0ES87-2DC0⁴⁾	80	145 x 180 x 540 (5.7 x 7.1 x 21.3)	11 6 (13.2)
10	15	2.5	–	– ¹⁾				6SE7021-6ES87-2DC0⁴⁾	40	145 x 360 x 540 (5.7 x 14.2 x 21.3)	11 11.5 (25.4)
12	18	–	0.9 ⁹⁾					6SE7022-0ES87-2DC0	33.3	134 x 350 x 203 (5.28 x 13.78 x 7.99)	11a 6.8 (15)
20	30	5	–	– ¹⁾				6SE7023-2ES87-2DC0⁴⁾	20	435 x 305 x 485 (17.1 x 11.9 x 19.1)	12 17 (37.5)
50	75	12.5	–	– ¹⁾				6SE7028-0ES87-2DC0⁵⁾	8	745 x 305 x 485 (29.3 x 11.9 x 19.1)	12 27 (59.5)
100	150	25	–	– ¹⁾				6SE7031-6ES87-2DC0⁶⁾	4	745 x 605 x 485 (29.3 x 23.8 x 19.1)	13 47 (103.6)
For compact and chassis units											
2	3	–	0.15					6SE7013-2ES87-2DC0	200	44 x 250 x 120 (1.73 x 9.84 x 4.72)	10a 1.4 (3.1)
4	6	–	0.3 ⁸⁾					6SE7016-3ES87-2DC0	100	44 x 250 x 120 (1.73 x 9.84 x 4.72)	10a 1.9 (4.2)
5	7.5	1.25	0.16	6SE7018-0ES87-2DA0	45 x 425 x 350 (1.8 x 16.7 x 13.8)	10	6 (13.2)	6SE7018-0ES87-2DC0	80	145 x 180 x 540 (5.7 x 7.1 x 21.3)	11 6 (13.2)
10	15	2.5	0.32	6SE7021-6ES87-2DA0	45 x 425 x 350 (1.8 x 16.7 x 13.8)	10	6 (13.2)	6SE7021-6ES87-2DC0	40	145 x 360 x 540 (5.7 x 14.2 x 21.3)	11 11.5 (25.4)
12	18	–	0.9 ⁹⁾					6SE7022-0ES87-2DC0	33.3	134 x 350 x 203 (5.28 x 13.78 x 7.99)	11a 6.8 (15)
20	30	5	0.63	6SE7023-2EA87-2DA0	90 x 425 x 350 (3.5 x 16.7 x 13.8)	10	11 (24.3)	6SE7023-2ES87-2DC0	20	430 x 302 x 485 (16.9 x 11.9 x 19.1)	12 17 (37.5)
50	75	12.5	–	6SE7028-0EA87-2DA0	90 x 425 x 350 (3.5 x 16.7 x 13.8)	10	11 (24.3)	6SE7028-0ES87-2DC0	8	740 x 302 x 485 (29.1 x 11.9 x 19.1)	12 27 (59.5)
100	150	25	–	6SE7031-6EB87-2DA0	135 x 425 x 350 (5.3 x 16.7 x 13.8)	10	18 (39.7)	6SE7031-6ES87-2DC0	4	740 x 605 x 485 (29.1 x 23.8 x 19.1)	13 47 (103.6)
170	255	42.5	–	6SE7032-7EB87-2DA0	135 x 425 x 350 (5.3 x 16.7 x 13.8)	10	18 (39.7)	6SE7032-7ES87-2DC0	2.35	740 x 1325 x 485 (29.1 x 52.0 x 19.1)	14 103 (227.1)

1) With Compact PLUS rectifier units and Compact PLUS converters, the brake choppers are included as standard features. The external braking resistor should be dimensioned accordingly.

2) Can be used for all Compact PLUS converters.

3) For Compact PLUS converters from 5.5 kW to 15 kW.

4) Can be used for all Compact PLUS rectifier units.

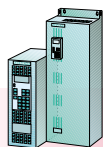
5) Can be used for Compact PLUS 50 kW and 100 kW rectifier units.

6) Can be used for Compact PLUS 100 kW rectifier units.

7) Allows the braking power at $V_d = 774$ V.

8) CSA rating: 240 W.

9) CSA rating: 720 W.



Compact and
chassis units



Compact
PLUS units

SIMOVERT MASTERDRIVES Motion Control

Selection and ordering data

Recommended DC link system components

Capacitor module¹⁾

Voltage range	Storage capacity at V_{DC} constant/stable		Order No.	Dimensions W x H x D mm x mm x mm (in x in x in)	Weight, approx. kg (lb)
	510 V	650 V			
	W_s	W_s			
510 V DC (–15 %) to 650 V DC (+10 %)	720	500	6SE7025-0TP87-2DD0	90 x 360 x 260 (3.54 x 14.1 x 10.2)	6 (13.2)

DC link module

Voltage range	Continuous current ²⁾ A	Auxiliary current requirement A	Order No.	Dimensions W x H x D mm x mm x mm (in x in x in)	Weight, approx. kg (lb)
510 V DC (–15 %) to 650 V DC (+10 %)	120	–	6SE7090-0XP87-3CR0	90 x 360 x 260 (3.54 x 14.1 x 10.2)	2.7 (5.95)

DC link rail with Compact PLUS

If DC rails are required, tinned standard copper rails E-Cu 3 x 10 tinned and rounded acc. to DIN 46 433 must be used.

Designation	Rated continuous current A	Order No.	Dimensions W x H x D mm x mm x mm (in x in x in)
Standard busbar, tinned	135	8WA2842	3 x 10 x 1000 (0.1 x 0.4 x 39.4)

This rail can also be ordered by the meter from Phoenix Contact under the designation NSL-CU 3/10.

Phoenix Contact GmbH & Co,
Flachsmarktstr. 8 – 28,
32825 Blomberg
Tel.: 0 52 35 – 31 04 40,
Fax: 0 52 35 – 31 04 99,
Internet: www.phoenixcontact.com

1) Up to four capacitor modules can be connected to the Compact PLUS 15 kW rectifier unit and up to eight capacitor modules to the 50 kW and 100 kW units. Only one capacitor module can be connected to Compact PLUS converters.

2) Short-time current for 250 ms: 360 A.