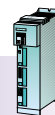


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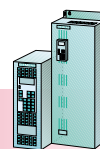
Selection and ordering data

Recommended line-side power options

Compact PLUS units



Compact and chassis units



Converters

Nominal power rating		Converter	Main circuit-breaker and EMERGENCY OFF switch		Switch disconnect ²⁾		Switch disconnect ²⁾ with fuse holder ²⁾			Fuse switch-disconnector ¹⁾²⁾		
kW	(HP)	Order No.	Order No.	A	Order No.	A	Order No.	A	Max. fuse size	Order No.	A	Size
Supply voltage 3-ph. 380 V to 480 V AC												
Compact PLUS units³⁾												
0.55	(0.75)	6SE7011-5EP□0	3LD11	25	3KA50 30-1EE01	63	3KL50 30-1EB01	63	00	3NP40 10-0CH01	100	000
1.1	(1.5)	6SE7013-0EP□0	3LD11	25	3KA50 30-1EE01	63	3KL50 30-1EB01	63	00	3NP40 10-0CH01	100	000
1.5	(2)	6SE7015-0EP□0	3LD11	25	3KA50 30-1EE01	63	3KL50 30-1EB01	63	00	3NP40 10-0CH01	100	000
3	(4)	6SE7018-0EP□0	3LD11	25	3KA50 30-1EE01	63	3KL50 30-1EB01	63	00	3NP40 10-0CH01	100	000
4	(5)	6SE7021-0EP□0	3LD11	25	3KA50 30-1EE01	63	3KL50 30-1EB01	63	00	3NP40 10-0CH01	100	000
5.5	(7.5)	6SE7021-4EP□0	3LD11	25	3KA50 30-1EE01	63	3KL50 30-1EB01	63	00	3NP40 10-0CH01	100	000
7.5	(10)	6SE7022-1EP□0	3LD11	25	3KA50 30-1EE01	63	3KL50 30-1EB01	63	00	3NP40 10-0CH01	100	000
11	(15)	6SE7022-7EP□0	3LD12	32	3KA50 30-1EE01	63	3KL50 30-1EB01	63	00	3NP40 10-0CH01	100	000
15	(20)	6SE7023-4EP□0	3LD15	63	3KA50 30-1EE01	63	3KL50 30-1EB01	63	00	3NP40 10-0CH01	100	000
Compact units												
2.2	(3)	6SE7016-1EA□1	3LD11	25	3KA50 30-1EE01	63	3KL50 30-1EB01	63	00	3NP40 10-0CH01	100	000
3	(4)	6SE7018-0EA□1	3LD11	25	3KA50 30-1EE01	63	3KL50 30-1EB01	63	00	3NP40 10-0CH01	100	000
4	(5)	6SE7021-0EA□1	3LD11	25	3KA50 30-1EE01	63	3KL50 30-1EB01	63	00	3NP40 10-0CH01	100	000
5.5	(7.4)	6SE7021-3EB□1	3LD11	25	3KA50 30-1EE01	63	3KL50 30-1EB01	63	00	3NP40 10-0CH01	100	000
7.5	(10)	6SE7021-8EB□1	3LD11	25	3KA50 30-1EE01	63	3KL50 30-1EB01	63	00	3NP40 10-0CH01	100	000
11	(15)	6SE7022-6EC□1	3LD12	32	3KA50 30-1EE01	63	3KL50 30-1EB01	63	00	3NP40 10-0CH01	100	000
15	(20)	6SE7023-4EC□1	3LD15	63	3KA50 30-1EE01	63	3KL50 30-1EB01	63	00	3NP40 10-0CH01	100	000
18.5	(25)	6SE7023-8ED□1	3LD15	63	3KA50 30-1EE01	63	3KL50 30-1EB01	63	00	3NP40 10-0CH01	100	000
22	(30)	6SE7024-7ED□1	3LD15	63	3KA50 30-1EE01	63	3KL50 30-1EB01	63	00	3NP40 10-0CH01	160	000
30	(40)	6SE7026-0ED□1	3LD17	100	3KA51 30-1EE01	80	3KL52 30-1EB01	125	00	3NP40 10-0CH01	160	000
37	(50)	6SE7027-2ED□1	3LD17	100	3KA51 30-1EE01	80	3KL52 30-1EB01	125	00	3NP40 10-0CH01	160	000
Chassis units												
45	(60)	6SE7031-0EE□0	–	–	3KA53 30-1EE01	160	3KL52 30-1EB01	125	00	3NP40 70-0CA01	160	000
55	(75)	6SE7031-2EF□0	–	–	3KA53 30-1EE01	160	3KL55 30-1EB01	250	0; 1; 2	3NP42 70-0CA01	250	0; 1
75	(100)	6SE7031-8EF□0	–	–	3KA53 30-1EE01	160	3KL55 30-1EB01	250	0; 1; 2	3NP42 70-0CA01	250	0; 1
90	(120)	6SE7032-1EG□0	–	–	3KA55 30-1EE01	250	3KL55 30-1EB01	250	0; 1; 2	3NP42 70-0CA01	250	0; 1
110	(150)	6SE7032-6EG□0	–	–	3KA55 30-1EE01	250	3KL55 30-1EB01	250	0; 1; 2	3NP42 70-0CA01	250	0; 1
132	(175)	6SE7033-2EG□0	–	–	3KA57 30-1EE01	400	3KL57 30-1EB01	400	1; 2	3NP43 70-0CA01	400	1; 2
160	(215)	6SE7033-7EG□0	–	–	3KA57 30-1EE01	400	3KL57 30-1EB01	400	1; 2	3NP43 70-0CA01	400	1; 2
200	(270)	6SE7035-1EK□0	–	–	3KA57 30-1EE01	400	3KL57 30-1EB01	400	1; 2	3NP43 70-0CA01	400	1; 2
250	(335)	6SE7036-0EK□0	–	–	3KA58 30-1EE01	630	3KL61 30-1AB0	630	3	3NP44 70-0CA01	630	2; 3

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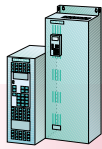
SIMOVERT MASTERDRIVES Motion Control

SIMOVERT MASTERDRIVES Motion Control Performance 2

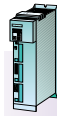
1) Fuse switch-disconnectors: Please take into account the size of the cable-protection fuses and semiconductor protection fuses.

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

3) For single-axis applications.



Compact and chassis units



Compact PLUS units

SIMOVER MASTERDRIVES Motion Control

Selection and ordering data

Recommended line-side power options

Nominal power rating	Converter		Circuit-breaker for system and motor protection to IEC 60 947-4 ¹⁾		Cable-protection fuses Duty class gL ²⁾ 3)		Semiconductor-protection fuses Duty class gR ³⁾ (incl. cable protection)	
			Order No.	Rated current A	Order No.	Rated current A	Order No.	Rated current A
kW (HP)								
Supply voltage 3-ph. 380 V to 480 V AC								
Compact PLUS units⁵⁾								
0.55 (0.75)	6SE7011-5EP□0 ⁴⁾	3RV10 21-1CA10		1.8 – 2.5	3NA3 803	10	00	3NE1 813-0 16 000
1.1 (1.5)	6SE7013-0EP□0 ⁴⁾	3RV10 21-1FA10		3.5 – 5.0	3NA3 803	10	00	3NE1 813-0 16 000
1.5 (2)	6SE7015-0EP□0 ⁴⁾	3RV10 21-1HA10		5.5 – 8.0	3NA3 803	10	00	3NE1 813-0 16 000
3 (4)	6SE7018-0EP□0 ⁴⁾	3RV10 21-1KA10		9.0 – 12.5	3NA3 805	16	00	3NE1 813-0 16 000
4 (5)	6SE7021-0EP□0	3RV10 21-1KA10		9.0 – 12.5	3NA3 805	16	00	3NE1 813-0 16 000
5.5 (7.5)	6SE7021-4EP□0	3RV10 21-4AA10		11 – 16	3NA3 810	25	00	3NE1 814-0 20 000
7.5 (10)	6SE7022-1EP□0	3RV10 21-4BA10		14 – 20	3NA3 810	25	00	3NE1 815-0 25 000
11 (15)	6SE7022-7EP□0	3RV10 31-4EA10		22 – 32	3NA3 814	35	00	3NE1 803-0 35 000
15 (20)	6SE7023-4EP□0	3RV10 31-4FA10		28 – 40	3NA3 817	40	00	3NE1 802-0 40 000
Compact units								
2.2 (3)	6SE7016-1EA□1	3RV10 21-1HA10		5.5 – 8.0	3NA3 803	10	00	3NE1 813-0 16 000
3 (4)	6SE7018-0EA□1	3RV10 21-1KA10		9.0 – 12.5	3NA3 805	16	00	3NE1 813-0 16 000
4 (5)	6SE7021-0EA□1	3RV10 21-1KA10		9.0 – 12.5	3NA3 805	16	00	3NE1 813-0 16 000
5.5 (7.4)	6SE7021-3EB□1	3RV10 21-4AA10		11 – 16	3NA3 810	25	00	3NE1 814-0 20 000
7.5 (10)	6SE7021-8EB□1	3RV10 21-4BA10		14 – 20	3NA3 810	25	00	3NE1 815-0 25 000
11 (15)	6SE7022-6EC□1	3RV10 31-4EA10		22 – 32	3NA3 814	35	00	3NE1 803-0 35 000
15 (20)	6SE7023-4EC□1	3RV10 31-4FA10		28 – 40	3NA3 817	50	00	3NE1 802-0 40 000
18.5 (25)	6SE7023-8ED□1	3RV10 31-4HA10		40 – 50	3NA3 820	63	00	3NE1 817-0 50 000
22 (30)	6SE7024-7ED□1	3RV10 41-4JA10		45 – 63	3NA3 822	63	00	3NE1 818-0 63 000
30 (40)	6SE7026-0ED□1	3RV10 41-4KA10		57 – 75	3NA3 824	100	00	3NE1 820-0 80 000
37 (50)	6SE7027-2ED□1	3RV10 41-4LA10		70 – 90	3NA3 830	100	00	3NE1 021-0 100 00
Chassis units								
45 (60)	6SE7031-0EE□0	3VF32 11-1BU41-0AA0		100 – 125	3NA3 032	125	0	3NE1 021-0 100 00
55 (75)	6SE7031-2EF□0	3VF33 11-1BX41-0AA0		160 – 200	3NA3 036	160	0	3NE1 224-0 160 1
75 (100)	6SE7031-8EF□0	3VF33 11-1BX41-0AA0		160 – 200	3NA3 140	200	1	3NE1 225-0 200 1
90 (120)	6SE7032-1EG□0	3VF42 11-1BM41-0AA0		200 – 250	3NA3 144	250	1	3NE1 227-0 250 1
110 (150)	6SE7032-6EG□0	3VF52 11-1BK41-0AA0		250 – 315	3NA3 144	315	2	3NE1 227-0 250 1
132 (175)	6SE7033-2EG□0	3VF52 11-1BK41-0AA0		250 – 315	3NA3 252	315	2	3NE1 230-0 315 1
160 (215)	6SE7033-7EG□0	3VF52 11-1BM41-0AA0		315 – 400	3NA3 260	400	2	3NE1 332-0 400 2
200 (270)	6SE7035-1EK□0	3VF62 11-1BK44-0AA0		400 – 500	3NA3 365	500	3	3NE1 333-0 450 2
250 (335)	6SE7036-0EK□0	3VF62 11-1BM44-0AA0		500 – 600	3NA3 372	630	3	3NE1 435-0 560 3

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SIMOVER MASTERDRIVES Motion Control Performance 2

1) Refer to catalog NS K.
Use together for drive converters with a line inductance of $\geq 3\%$ referred to the drive converter impedance Z , i.e. when the ratio of the line short-circuit power to the converter output is $33:1$ or $100:1$ and an additional 2 % line reactor is used. For the 100 kA short-circuit rating, it may be necessary to use a fuse as listed in the NS K Catalog.

$$\text{Unit impedance: } Z = \frac{V_{\text{Line}}}{\sqrt{3} \cdot I_{\text{Line}}}$$

2) Does not ensure total protection for the input rectifier of the unit.
3) The cable cross-sections must be dimensioned according to DIN VDE 0100, VDE 0298, Part 4, and as a function of the rated fuse currents.
4) Maximum possible protection permissible up to 25 A, i.e. gL 3NA3810 and gR 3NE 1815-0 with corresponding cable cross-section.

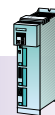
5) For single-axis applications.

SIMOVERT MASTERDRIVES Motion Control

Selection and ordering data

Recommended line-side power options

Compact PLUS units



Compact and chassis units



Converters (continued)

Nominal power rating		Converter	Main contactor/ AC contactor ¹⁾		Commutating reactor ²⁾ $V_D = 2\%$		Radio-interference suppression filter ²⁾			
kW	(HP)	Order No.	Order No.	Rated current A	Order No.	P_v 50/60 Hz W	Rated current A	Order No.	Class	Rated current A
Supply voltage 3-ph. 380 V to 480 V AC										
Compact PLUS units⁴⁾										
0.55	(0.75)	6SE7011-5EP□0	3RT10 15	16	4EP32 00-4US00	8/10	1.5	6SE7012-0EP87-0FB1 ³⁾	B1	2
1.1	(1.5)	6SE7013-0EP□0	3RT10 15	16	4EP32 00-5US00	12/18	3.0	6SE7016-0EP87-0FB1 ³⁾	B1	6
1.5	(2)	6SE7015-0EP□0	3RT10 15	16	4EP32 00-2US00	23/35	5.0	6SE7016-0EP87-0FB1 ³⁾	B1	6
3	(4)	6SE7018-0EP□0	3RT10 15	16	4EP34 00-2US00	35/38	9.1	6SE7021-2EP87-0FB1 ³⁾	B1	12
4	(5)	6SE7021-0EP□0	3RT10 15	16	4EP34 00-1US00	35/38	11.2	6SE7021-2EP87-0FB1 ³⁾	B1	12
5.5	(7.5)	6SE7021-4EP□0	3RT10 16	20	4EP35 00-0US00	45/48	16	6SE7021-8EP87-0FB1 ³⁾	B1	18
7.5	(10)	6SE7022-1EP□0	3RT10 16	20	4EP36 00-4US00	52/57	18	6SE7021-8EP87-0FB1 ³⁾	B1	18
11	(15)	6SE7022-7EP□0	3RT10 25	35	4EP36 00-5US00	52/57	28	6SE7023-4ES87-0FB1	B1	36
15	(20)	6SE7023-4EP□0	3RT10 34	45	4EP37 00-2US00	57/60	35.5	6SE7023-4ES87-0FB1	B1	36
Compact units										
2.2	(3)	6SE7016-1EA□1	3RT10 15	16	4EP32 00-1US00	23/35	6.3	6SE7021-0ES87-0FB1	B1	12
3	(4)	6SE7018-0EA□1	3RT10 15	16	4EP34 00-2US00	35/38	9.1	6SE7021-0ES87-0FB1	B1	12
4	(5)	6SE7021-0EA□1	3RT10 15	16	4EP34 00-1US00	35/38	11.2	6SE7021-0ES87-0FB1	B1	12
5.5	(7.4)	6SE7021-3EB□1	3RT10 16	20	4EP35 00-0US00	45/48	16	6SE7021-8ES87-0FB1	B1	18
7.5	(10)	6SE7021-8EB□1	3RT10 16	20	4EP36 00-4US00	52/57	18	6SE7021-8ES87-0FB1	B1	18
11	(15)	6SE7022-6EC□1	3RT10 25	35	4EP36 00-5US00	52/57	28	6SE7023-4ES87-0FB1	B1	36
15	(20)	6SE7023-4EC□1	3RT10 34	45	4EP37 00-2US00	57/60	35.5	6SE7023-4ES87-0FB1	B1	36
18.5	(25)	6SE7023-8ED□1	3RT10 34	45	4EP37 00-5US00	57/60	40	6SE7027-2ES87-0FB1	B1	80
22	(30)	6SE7024-7ED□1	3RT10 35	55	4EP38 00-2US00	67/71	50	6SE7027-2ES87-0FB1	B1	80
30	(40)	6SE7026-0ED□1	3RT10 44	90	4EP38 00-7US00	67/71	63	6SE7027-2ES87-0FB1	B1	80
37	(50)	6SE7027-2ED□1	3RT10 44	90	4EP39 00-2US00	82/87	80	6SE7027-2ES87-0FB1	B1	80
Chassis units										
45	(60)	6SE7031-0EE□0	3RT10 45	100	4EP40 00-2US00	96/103	100	6SE7031-2ES87-0FA1	A1	120
55	(75)	6SE7031-2EF□0	3RT14 46	135	4EP40 00-6US00	96/103	125	6SE7031-8ES87-0FA1	A1	190
75	(100)	6SE7031-8EF□0	3RT10 55	185	4EU25 52-4UA00-0AA0	187/201	200	6SE7031-8ES87-0FA1	A1	190
90	(120)	6SE7032-1EG□0	3RT10 56	215	4EU25 52-4UA00-0AA0	187/201	200	6SE7031-8ES87-0FA1	A1	190
110	(150)	6SE7032-6EG□0	3RT14 56	275	4EU25 52-8UA00-0AA0	187/201	224	6SE7033-6ES87-0FA1	A1	320
132	(175)	6SE7033-2EG□0	3RT10 65	330	4EU27 52-0UB00-0AA0	253/275	280	6SE7033-2ES87-0FA1	A1	320
160	(215)	6SE7033-7EG□0	3RT10 65	330	4EU27 52-7UA00-0AA0	253/275	315	6SE7033-2ES87-0FA1	A1	320
200	(270)	6SE7035-1EK□0	3RT10 75	430	4EU30 52-5UA00-0AA0	334/367	560	6SE7036-0ES87-0FA1	A1	600
250	(335)	6SE7036-0EK□0	3RT10 76	610	4EU30 52-5UA00-0AA0	334/367	560	6SE7036-0ES87-0FA1	A1	600

5	SIMOVERT MASTERDRIVES Motion Control
7	SIMOVERT MASTERDRIVES Motion Control Performance 2

1) Refer to catalog NS K.

2) Compliance of radio-interference suppression with EN 55 011 is only ensured in combination with the line commutating reactor $V_D = 2\%$. With Compact PLUS filters, the line commutating reactor $V_D = 2\%$ is integrated in the line filter.

3) Radio-interference suppression filters of type of construction Compact PLUS with commutating reactor $V_D = 2\%$ are integrated into the filter. No additional inverters for the converter have been taken into account.

4) For single-axis applications.