

Compact and
chassis units

SIMOVERT MASTERDRIVES Motion Control

Selection and ordering data

Recommended DC link power options⁵⁾

Inverter

Nominal power rating		Inverter	Fuse switch-disconnector for DC coupling ¹⁾²⁾		Inverter protection fuse Duty class gR ²⁾			Inverter protection fuse Duty class aR ²⁾		
kW	(HP)	Order No.	Order No.	I_{rated} A	Max. fuse size	Order No.	I_{rated} A	Size	Order No.	I_{rated} A
Compact units										
2.2	(3)	6SE7016-1TA51 ³⁾	3NP40 10-0CH01	100	000	2 x 3NE1 814-0 ⁴⁾	20	000	2 x 3NE8 015 ⁴⁾	25 00
3	(4)	6SE7018-0TA51 ³⁾	3NP40 10-0CH01	100	000	2 x 3NE1 815-0 ⁴⁾	25	000	2 x 3NE8 015 ⁴⁾	25 00
4	(5)	6SE7021-0TA51 ³⁾	3NP40 10-0CH01	100	000	2 x 3NE1 815-0 ⁴⁾	25	000	2 x 3NE8 015 ⁴⁾	25 00
5.5	(7.5)	6SE7021-3TB51 ³⁾	3NP40 10-0CH01	100	000	2 x 3NE1 803-0 ⁴⁾	35	000	2 x 3NE8 017 ⁴⁾	50 00
7.5	(10)	6SE7021-8TB51 ³⁾	3NP40 10-0CH01	100	000	2 x 3NE1 817-0 ⁴⁾	50	000	2 x 3NE8 017 ⁴⁾	50 00
11	(15)	6SE7022-6TC51 ³⁾	3NP40 10-0CH01	100	000	2 x 3NE1 818-0 ⁴⁾	63	000	2 x 3NE8 020 ⁴⁾	80 00
15	(20)	6SE7023-4TC51 ³⁾	3NP40 10-0CH01	100	000	2 x 3NE1 820-0 ⁴⁾	80	000	2 x 3NE8 020 ⁴⁾	80 00
18.5	(25)	6SE7023-8TD51 ³⁾	3NP40 70-0CA01	160	00	2 x 3NE1 021-0 ⁴⁾	100	00	2 x 3NE8 022 ⁴⁾	125 00
22	(30)	6SE7024-7TD51 ³⁾	3NP40 70-0CA01	160	00	2 x 3NE1 022-0 ⁴⁾	125	00	2 x 3NE8 022 ⁴⁾	125 00
30	(40)	6SE7026-0TD51 ³⁾	3NP42 70-0CA01	250	0; 1	2 x 3NE1 224-0 ⁴⁾	160	0	2 x 3NE8 024 ⁴⁾	160 00
37	(50)	6SE7027-2TD51 ³⁾	3NP42 70-0CA01	250	0; 1	2 x 3NE1 224-0 ⁴⁾	160	0	2 x 3NE8 024 ⁴⁾	160 00
Chassis units										
45	(60)	6SE7031-0TE50	3NP42 70-0CA01	250	0; 1	–	–	–	2 x 3NE3 224	160 1
55	(75)	6SE7031-2TF50	3NP42 70-0CA01	250	0; 1	–	–	–	2 x 3NE3 227	250 1
75	(100)	6SE7031-8TF50	3NP42 70-0CA01	250	0; 1	–	–	–	2 x 3NE3 227	250 1
90	(120)	6SE7032-1TG50	3NP43 70-0CA01	400	1; 2	–	–	–	2 x 3NE3 230-0B	315 1
110	(150)	6SE7032-6TG50	3NP44 70-0CA01	630	2; 3	–	–	–	2 x 3NE3 233	450 1
132	(175)	6SE7033-2TG50	3NP44 70-0CA01	630	2; 3	–	–	–	2 x 3NE3 233	450 1
160	(215)	6SE7033-7TG50	3NP44 70-0CA01	630	2; 3	–	–	–	2 x 3NE3 334-0B	500 2
200	(270)	6SE7035-1TJ50	3NP44 70-0CA01	630	2; 3	–	–	–	2 x 3NE3 336	630 2
250	(335)	6SE7036-0TJ50	2 x 3NP53 60-0CA00	400	1; 2	–	–	–	2 x 2 x 3NE3 233 ³⁾	450 1

1) See Catalog "Low-Voltage Switchgear". The rated insulation voltage is valid for pollution degree 3 according to DIN VDE 0110, Part 1. The conditions of use, however, are according to pollution degree 2. The rated insulation voltage is therefore ≥ 1000 V.

2) Bear in mind the size of the fuses when selecting the fuse disconnector.

3) DC fuses contained in the inverter unit as standard features.

4) The fuses are necessary only if separate protection of the inverters is required. In that case, the inverters should be ordered with option L33.

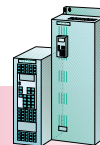
5) The Compact PLUS inverters can be connected to the DC link via a coupling module. The power options for the DC link are to be dimensioned according to the total inverter output.

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Selection and ordering data

Recommended DC link power options¹⁾

Compact and chassis units



Inverter

Nominal power rating		Inverter	Contactor for disconnecting the inverter from the DC bus ¹⁾		Precharging resistors		Free-wheeling diode on the DC bus		Clamping cap
				I_{rated}		Quantity per inv.	R_{rated}	Diode	
kW	(HP)	Order No.	Order No.	A	Order No.		W	Order No.	Order No.
Compact units									
2.2	(3)	6SE7016-1TA51	3RT13 25	1 x 30	6SX7010-0AC06	2	27	SKR 3 F 20/12 ²⁾	
3	(4)	6SE7018-0TA51	3RT13 25	1 x 30	6SX7010-0AC06	2	27	SKR 3 F 20/12 ²⁾	
4	(5)	6SE7021-0TA51	3RT13 25	1 x 30	6SX7010-0AC06	2	27	SKR 3 F 20/12 ²⁾	
5.5	(7.5)	6SE7021-3TB51	3RT13 25	1 x 30	6SX7010-0AC06	2	27	SKR 3 F 20/12 ²⁾	
7.5	(10)	6SE7021-8TB51	3RT13 25	2 x 27	6SX7010-0AC06	2	27	SKR 3 F 20/12 ²⁾	
11	(15)	6SE7022-6TC51	3RT13 25	2 x 27	6SX7010-0AC06	2	27	SKR 60 F 12 ²⁾	
15	(20)	6SE7023-4TC51	3RT13 25	2 x 27	6SX7010-0AC06	2	27	SKR 60 F 12 ²⁾	
18.5	(25)	6SE7023-8TD51	3RT13 25	2 x 27	6SX7010-0AC06	2	27	SKR 60 F 12 ²⁾	
22	(30)	6SE7024-7TD51	3RT13 36	2 x 50	6SX7010-0AC06	2	27	SKR 60 F 12 ²⁾	
30	(40)	6SE7026-0TD51	3RT13 44	2 x 81	6SX7010-0AC07	2	27	SKR 141 F 15 ²⁾	
37	(50)	6SE7027-2TD51	3RT13 44	2 x 81	6SX7010-0AC07	2	27	SKR 141 F 15 ²⁾	
Chassis units									
45	(60)	6SE7031-0TE50	3RT13 44	2 x 81	6SX7010-0AC08	2	15	SKR 141 F 15 ²⁾	
55	(75)	6SE7031-2TF50	3RT13 46	2 x 108	6SX7010-0AC08	2	15	SKR 141 F 15 ²⁾	
75	(100)	6SE7031-8TF50	3TK10	2 x 162	6SX7010-0AC08	2	15	SKR 141 F 15 ²⁾	
90	(120)	6SE7032-1TG50	3TK10	2 x 162	6SX7010-0AC10	2	10	SKR 141 F 15 ²⁾	
110	(150)	6SE7032-6TG50	3TK10	2 x 162	6SX7010-0AC10	2	10	2 x SKR 141 F 15 ²⁾	
132	(175)	6SE7033-2TG50	3TK11	2 x 207	6SX7010-0AC10	2	10	2 x SKR 141 F 15 ²⁾	
160	(215)	6SE7033-7TG50	3TK12	2 x 243	6SX7010-0AC10	2	10	2 x SKR 141 F 15 ²⁾	
200	(270)	6SE7035-1TJ50	3TK13	2 x 279	6SX7010-0AC10	2	10	2 x SKR 141 F 15 ²⁾	
250	(335)	6SE7036-0TJ50	3TK14	2 x 423	6SX7010-0AC10	2	10	D 689S 20 ³⁾⁴⁾	V 72-26.120M ³⁾⁴⁾

1) Refer to Catalog "Switchgear and Systems".
Rated insulation voltage with pollution degree 2 according to DIN VDE 0110, Part 1, 1000 V.

2) The diodes referred to are from the range of products supplied by SEMIKRON GmbH u. Co. KG, Sigmundstr. 200, D-90431 Nuremberg, Germany. Internet: www.semikron.com

3) Diode supplied as a disc diode with a clamping cap for mounting on a copper plate or copper rail.

4) The diodes referred to are from the product range supplied by EUPEC GmbH u. Co. KG, Max-Planck-Str. 5, D-59581 Warstein, Germany. Internet: www.eupec.com

5) The braking units connected in parallel to a DC voltage busbar or several converters are to be protected with the fuses indicated.