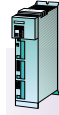




Compact and chassis units



Compact PLUS units

SIMOVERT MASTERDRIVES Motion Control

Selection and ordering data

Recommended line-side power options

Rectifier/regenerative units, 25 % power-on duration in generating mode

Nominal power rating	Rectifier/ regenerative unit	Switch disconnectors ²⁾		Switch disconnectors with fuse holders ¹⁾²⁾			Fuse switch-disconnectors ¹⁾²⁾		
		Order No.	Rated current	Order No.	Rated current	Max. fuse size	Order No.	Rated current	Max. fuse size
kW	Order No.	Order No.	A	Order No.	A		Order No.	A	
Supply voltage 3-ph. 380 V to 480 V AC									
7.5	6SE7022-1EC85-1AA0	3KA50 30-1EE01	63	3KL55 30-1EB01	250	0; 1; 2	3NP42 70-OCA01	250	0; 1
15	6SE7024-1EC85-1AA0	3KA50 30-1EE01	63	3KL55 30-1EB01	250	0; 1; 2	3NP42 70-OCA01	250	0; 1
37	6SE7028-6EC85-1AA0	3KA51 30-1EE01	80	3KL55 30-1EB01	250	0; 1; 2	3NP42 70-OCA01	250	0; 1
75	6SE7031-7EE85-1AA0	3KA53 30-1EE01	160	3KL55 30-1EB01	250	0; 1; 2	3NP42 70-OCA01	250	0; 1
90	6SE7032-2EE85-1AA0	3KA55 30-1EE01	250	3KL55 30-1EB01	250	0; 1; 2	3NP42 70-OCA01	250	0; 1
132	6SE7033-1EE85-1AA0	3KA57 30-1EE01	400	3KL57 30-1EB01	400	1; 2	3NP53 60-OCA00	400	1; 2
160	6SE7033-8EE85-1AA0	3KA57 30-1EE01	400	3KL57 30-1EB01	400	1; 2	3NP53 60-OCA00	400	1; 2
200	6SE7034-6EE85-1AA0	3KA57 30-1EE01	400	3KL61 30-1AB0	630	2; 3	3NP54 60-OCA00	630	2; 3
250	6SE7036-1EE85-1AA0	3KA58 30-1EE01	630	3KL61 30-1AB0	630	2; 3	3NP54 60-OCA00	630	2; 3

Nominal power rating	Rectifier/ regenerative unit	Cable-protection fuses Duty class gL ³⁾⁴⁾		Semiconductor-protection fuses Duty class aR ⁴⁾ (incl. cable protection)			Main contactor/ AC contactor ⁵⁾		
		Order No.	Rated current	Order No.	Rated current	Size	Order No.	Rated current	
kW	Order No.	Order No.	A	Order No.	A	Size	AC1 duty 55 °C	Rated current	
Supply voltage 3-ph. 380 V to 480 V AC									
7.5	6SE7022-1EC85-1AA0	3NA3 810	25	00	3NE4 101	32	0	3RT10 25	35
15	6SE7024-1EC85-1AA0	3NA3 820	50	00	3NE4 118	63	0	3RT10 34	45
37	6SE7028-6EC85-1AA0	3NA3 830	100	00	3NE4 122	125	0	3RT10 44	90
75	6SE7031-7EE85-1AA0	3NA3 140	200	1	3NE3 227	250	1	3TK50	190
90	6SE7032-2EE85-1AA0	3NA3 144	250	1	3NE3 230-0B	315	1	3TK52	315
132	6SE7033-1EE85-1AA0	3NA3 252	315	2	3NE3 233	450	1	3TK52	315
160	6SE7033-8EE85-1AA0	3NA3 260	400	2	3NE3 333	450	2	3TK54	380
200	6SE7034-6EE85-1AA0	3NA3 365	500	3	3NE3 335	560	2	3TK56	500
250	6SE7036-1EE85-1AA0	3NA3 372	630	3	3NE3 338-8	800	2	2 x 3TK52	567

1) Switch disconnectors: Please take into account the size of the cable-protection and semiconductor-protection fuses!

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

3) Does not ensure total protection for the input rectifier of the unit.

4) 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.

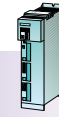
5) Refer to Catalog NS K.

SIMOVERT MASTERDRIVES Motion Control

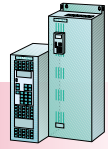
Selection and ordering data

Recommended line-side power options

Compact
PLUS units



Compact and
chassis units



Rectifier/regenerative units, 25 % power-on duration in generating mode

Nominal power rating	Rectifier/regenerative unit	Commutating reactor $V_D = 2\%$			Commutating reactor $V_D = 4\%$			Radio-interference suppression filter ¹⁾²⁾	
		400/480 V 50/60 Hz	P_V 50/60 Hz	Rated current	400/480 V 50/60 Hz	P_V 50/60 Hz	Rated current	Order No.	Class
kW	Order No.	Order No.	W	A	Order No.	W	A	Order No.	
Supply voltage 3-ph. 380 V to 480 V AC									
7.5	6SE7022-1EC85-1AA0	4EP36 00-4US00	52/ 57	18	4EP37 00-7US00	57/ 60	18	6SE7023-4ES87-0FB1	B1
15	6SE7024-1EC85-1AA0	4EP37 00-2US00	57/ 60	35.5	4EP39 00-5US00	82/ 87	35.5	6SE7023-4ES87-0FB1	B1
37	6SE7028-6EC85-1AA0	4EP39 00-2US00	82/ 87	80	4EU24 52-4UA00-0AA0	154/163	80	6SE7027-2ES87-0FB1	B1
75	6SE7031-7EE85-1AA0	4EU24 52-2UA00-0AA0	154/163	160	4EU27 52-1UB00-0AA0	253/275	160	6SE7031-8ES87-0FA1	A1
90	6SE7032-2EE85-1AA0	4EU25 52-4UA00-0AA0	187/201	200	4EU27 52-2UB00-0AA0	253/275	200	6SE7031-8ES87-0FA1	A1
132	6SE7033-1EE85-1AA0	4EU27 52-0UB00-0AA0	253/275	280	4EU30 52-7UA00-0AA0	334/367	280	6SE7033-2ES87-0FA1	A1
160	6SE7033-8EE85-1AA0	4EU27 52-7UA00-0AA0	253/275	315	4EU30 52-8UA00-0AA0	334/367	355	6SE7033-2ES87-0FA1	A1
200	6SE7034-6EE85-1AA0	4EU27 52-8UA00-0AA0	253/275	400	4EU36 52-3UB00-0AA0	450/495	400	6SE7036-0ES87-0FA1	A1
250	6SE7036-1EE85-1AA0	4EU30 52-5UA00-0AA0	334/367	560	4EU36 52-4UB00-0AA0	450/495	560	6SE7036-0ES87-0FA1	A1

Nominal power rating	Rectifier/regenerative unit	Regenerative autotransformer ³⁾				Free-wheeling diode on the DC bus ⁴⁾	Clamping cap
		25 % power-on duration 380 V to 415 V 50/60 Hz	P_V 50/60 Hz	25 % power-on duration 440 V to 480 V 60 Hz	P_V 50/60 Hz		
kW	Order No.	Order No.	kW	Order No.	kW	Order No.	Order No.
Supply voltage 3-ph. 380 V to 480 V AC							
7.5	6SE7022-1EC85-1AA0	4AP25 95-0UA11-8AN2	0.35	4AP25 95-0UA21-8AN2	0.35	SKR 3 F 20/12	
15	6SE7024-1EC85-1AA0	4AP27 95-0UA01-8AN2	0.45	4AP27 95-0UA51-8AN2	0.45	SKR 3 F 20/12	
37	6SE7028-6EC85-1AA0	4AP30 95-0UA01-8AN2	0.65	4AP30 95-0UA71-8AN2	0.65	SKR 60 F 12	
75	6SE7031-7EE85-1AA0	4AU39 95-0UA51-8AN2	2.20	4AU36 95-0UA21-8AN2	1.70	SKR 60 F 12	
90	6SE7032-2EE85-1AA0	4AU39 95-0UA61-8AN2	2.20	4AU39 95-0UB01-8AN2	2.20	SKR 60 F 12	
132	6SE7033-1EE85-1AA0	4BU43 95-0UA41-8A	2.70	4BU43 95-0UA51-8A	2.70	2 x SKR 141 F 15	
160	6SE7033-8EE85-1AA0	4BU45 95-0UA61-8A	2.80	4BU45 95-0UA71-8A	2.80	2 x SKR 141 F 15	
200	6SE7034-6EE85-1AA0	4BU47 95-0UA61-8A	3.00	4BU47 95-0UA71-8A	3.00	2 x SKR 141 F 15	
250	6SE7036-1EE85-1AA0	4BU51 95-0UA31-8A	6.00	4BU51 95-0UA41-8A	6.00	D 689S 20 ⁵⁾⁶⁾	V 72-26.120M ⁵⁾⁶⁾

1) Compliance with radio-interference suppression to EN 61 800-3 can only be ensured in conjunction with a line commutating reactor of $V_D = 2\%$.

2) Can only be used with TT and TN systems (earthed systems).

3) Transformer: Cycle duration of 22 min, i.e. with 25 % power-on duration, maximum 5.5 min in regenerating mode, 16.5 min in rectifying mode.

4) 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

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

6) 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