

Selection and ordering data

Nominal power rating	Rated output current	Base load current	Short-time current [1]	Rated DC link current	Supply current (only for converters)	Converter	Inverter	Power loss at 2.5 kHz		Dimensions W x H x D	For dimension drawing, see Section 7	Weight approx.
	I_{UN}	I_G	$I_{max.}$					Converter	Inverter			
kW	A	A	A	A	A	Order No.	Order No.	kW	kW	mm	No.	kg
Supply voltage 3-ph. 380 V to 480 V AC and DC voltage 510 V to 650 V DC												
400 V												
2.2	6.1	5.6	8.3	7.3	6.7	**6SE7016–1EA61**	**6SE7016–1TA61**	0.11	0.09	90 x 425 x 350	6	8.5
3	8	7.3	10.9	9.5	8.8	**6SE7018–0EA61**	**6SE7018–0TA61**	0.12	0.10	90 x 425 x 350	6	8.5
4	10.2	9.3	13.9	12.1	11.2	**6SE7021–0EA61**	**6SE7021–0TA61**	0.16	0.12	90 x 425 x 350	6	8.5
5.5	13.2	12	18.0	15.7	14.5	**6SE7021–3EB61**	**6SE7021–3TB61**	0.16	0.13	135 x 425 x 350	6	12.5
7.5	17.5	15.9	23.9	20.8	19.3	**6SE7021–8EB61**	**6SE7021–8TB61**	0.21	0.16	135 x 425 x 350	6	12.5
11	25.5	23.2	34.8	30.4	28.1	**6SE7022–6EC61**	**6SE7022–6TC61**	0.34	0.27	180 x 600 x 350	6	21
15	34	30.9	46.4	40.5	37.4	**6SE7023–4EC61**	**6SE7023–4TC61**	0.47	0.37	180 x 600 x 350	6	21
18.5	37.5	34.1	51.2	44.6	41.3	**6SE7023–8ED61**	**6SE7023–8TD61**	0.60	0.50	270 x 600 x 350	6	32
22	47	42.8	64.2	55.9	51.7	**6SE7024–7ED61**	**6SE7024–7TD61**	0.71	0.58	270 x 600 x 350	6	32
30	59	53.7	80.5	70.2	64.9	**6SE7026–0ED61**	**6SE7026–0TD61**	0.85	0.69	270 x 600 x 350	6	32
37	72	65.5	98.3	85.7	79.2	**6SE7027–2ED61**	**6SE7027–2TD61**	1.06	0.85	270 x 600 x 350	6	32
45	92	84	126	110	101	**6SE7031–0EE60**	**6SE7031–0TE60**	1.18	1.05	270 x 1050 x 365	8	65
55	124	113	169	148	136	**6SE7031–2EF60**	**6SE7031–2TF60**	1.67	1.35	360 x 1050 x 365	8	75
75	146	133	199	174	160	**6SE7031–5EF60**	**6SE7031–5TF60**	1.95	1.56	360 x 1050 x 365	8	75
90	186	169	254	221	205	**6SE7031–8EF60**	**6SE7031–8TF60**	2.17	1.70	360 x 1050 x 365	8	75
110	210	191	287	250	231	**6SE7032–1EG60**	**6SE7032–1TG60**	2.68	2.18	508 x 1450 x 465	8	160
132	260	237	355	309	286	**6SE7032–6EG60**	**6SE7032–6TG60**	3.40	2.75	508 x 1450 x 465	8	160
160	315	287	430	375	346	**6SE7033–2EG60**	**6SE7033–2TG60**	4.30	3.47	508 x 1450 x 465	8	180
200	370	337	503	440	407	**6SE7033–7EG60**	**6SE7033–7TG60**	5.05	4.05	508 x 1450 x 465	8	180
250	510	464	694	607	–	**–**	**6SE7035–1TJ60**	–	5.8	800 x 1400 x 565	10	350
250	510	464	694	607	561	**6SE7035–1EK60**	**–**	7.1	–	800 x 1750 x 565	12	400
315	590	537	802	702	–	**–**	**6SE7036–0TJ60**	–	6.6	800 x 1400 x 565	10	350
315	590	537	802	702	649	**6SE7036–0EK60**	**–**	8.2	–	800 x 1750 x 565	12	400
400	690	628	938	821	–	**–**	**6SE7037–0TJ60**	–	8.8	800 x 1400 x 565	10	350
400	690	628	938	821	759	**6SE7037–0EK60**	**–**	10.2	–	800 x 1750 x 565	12	400
500	860	782	1170	1023	–	**–**	**6SE7038–6TK60**	–	11.9	800 x 1750 x 565	10	520
630	1100	1000	1496	1310	–	**–**	**6SE7041–1TK60**	–	13.4	800 x 1750 x 565	10	520
710	1300	1183	1768	1547	–	**–**	**6SE7041–3TL60**	–	14.5	1100 x 1750 x 565	11	625

For units with larger nominal power rating (parallel switched units), see page 3/16.

1) Short-time current = **1.6 x I_{UN}**, possible for **30 s to 200 kW**. See Section 6.

2) See Engineering Information, Section 6.



Selection and ordering data

Nominal power rating	Converter	Inverter	Output sinusoidal filter[1]			Output reactor[1]	
				$f_{max.}$	P_v max.	Iron-core reactor $f_{max.}$ = 300 Hz	P_v max.
kW	Order No.	Order No.	Order No.	Hz	W	Order No.	W
Supply voltage 3-ph. 380 V to 480 V and DC voltage 510 V to 650 V DC							
400 V			f_{pulse} = 6 kHz			$f_{pulse} \leq$ 3 kHz	
2.2	**6SE7016–1EA61**	**6SE7016–1TA61**	6SE7016–1EA87–1FC0	400	150	6SE7016–1ES87–1FE0	80
3	**6SE7018–0EA61**	**6SE7018–0TA61**	6SE7021–0EB87–1FC0	400	200	6SE7021–0ES87–1FE0	80
4	**6SE7021–0EA61**	**6SE7021–0TA61**	6SE7021–0EB87–1FC0	400	200	6SE7021–0ES87–1FE0	80
5.5	**6SE7021–3EB61**	**6SE7021–3TB61**	6SE7021–8EB87–1FC0	400	250	6SE7021–8ES87–1FE0	95
7.5	**6SE7021–8EB61**	**6SE7021–8TB61**	6SE7021–8EB87–1FC0	400	250	6SE7021–8ES87–1FE0	95
11	**6SE7022–6EC61**	**6SE7022–6TC61**	6SE7022–6EC87–1FC0	400	300	6SE7022–6ES87–1FE0	110
15	**6SE7023–4EC61**	**6SE7023–4TC61**	6SE7023–4EC87–1FC0	400	400	6SE7023–4ES87–1FE0	130
18.5	**6SE7023–8ED61**	**6SE7023–8TD61**	6SE7024–7ED87–1FC0	400	500	6SE7024–7ES87–1FE0	190
22	**6SE7024–7ED61**	**6SE7024–7TD61**	6SE7024–7ED87–1FC0	400	500	6SE7024–7ES87–1FE0	190
30	**6SE7026–0ED61**	**6SE7026–0TD61**	6SE7027–2ED87–1FC0	400	600	6SE7027–2ES87–1FE0	130
37	**6SE7027–2ED61**	**6SE7027–2TD61**	6SE7027–2ED87–1FC0	400	600	6SE7027–2ES87–1FE0	130
45	**6SE7031–0EE60**	**6SE7031–0TE60**	6SE7031–0EE87–1FH0	200	450	6SE7031–0ES87–1FE0	190
55	**6SE7031–2EF60**	**6SE7031–2TF60**	6SE7031–5EF87–1FH0	200	600	6SE7031–5ES87–1FE0	220
75	**6SE7031–5EF60**	**6SE7031–5TF60**	(6SE7031–5EF87–1FH0[8])	200	600	6SE7031–5ES87–1FE0	220
90	**6SE7031–8EF60**	**6SE7031–8TF60**	6SE7031–5EF87–1FH0[2]	200	600	6SE7031–8ES87–1FE0	300
110	**6SE7032–1EG60**	**6SE7032–1TG60**	6SE7031–8EF87–1FH0[3]	200	750	6SE7032–6ES87–1FE0	300
132	**6SE7032–6EG60**	**6SE7032–6TG60**	6SE7031–8EF87–1FH0[4]	200	750	6SE7032–6ES87–1FE0	300
160	**6SE7033–2EG60**	**6SE7033–2TG60**	6SE7032–6EG87–1FH0[5]	200	900	6SE7033–2ES87–1FE0	370
200	**6SE7033–7EG60**	**6SE7033–7TG60**	6SE7032–6EG87–1FH0[6]	200	900	6SE7033–7ES87–1FE0	380
250	**6SE7035–1EK60**	**6SE7035–1TJ60**	–			6SE7035–1ES87–1FE0	460
315	**6SE7036–0EK60**	**6SE7036–0TJ60**	–			6SE7037–0ES87–1FE0	620
400	**6SE7037–0EK60**	**6SE7037–0TJ60**	–			6SE7037–0ES87–1FE0	620
500	**–**	**6SE7038–6TK60**	–			6SE7038–6ES87–1FE0	740
630	**–**	**6SE7041–1TK60**	–			6SE7041–1ES87–1FE0	860
710	**–**	**6SE7041–3TL60**	–			[7]	
900	**–**	without interphase transformer chassis **6SE7041–6TQ60**	–			6SE7038–6ES87–1FE0 (2x)	740 (2x)
900	**–**	with interphase transformer chassis **6SE7041–6TM60**	–			6SE7038–6ES87–1FE0 (2x)	740 (2x)
1300	**–**	without interphase transformer chassis **6SE7042–5TN60**	–			[7]	

Attention!
Please observe foot notes 2 to 6.

1) See Engineering Information, Section 6, also observe foot notes 2 to 6.

2) Rated current of the units with sinusoidal filter due to derating at a pulse frequency of 6 kHz, I_S = 140 A.

3) Rated current of the units with sinusoidal filter due to derating at a pulse frequency of 6 kHz, I_S = 158 A.

4) Rated current of the units with sinusoidal filter due to derating at a pulse frequency of 6 kHz, I_S = 195 A.

5) Rated current of the units with sinusoidal filter due to derating at a pulse frequency of 6 kHz, I_S = 236 A.

6) Rated current of the units with sinusoidal filter due to derating at a pulse frequency of 6 kHz, I_S = 278 A.

7) No reactor required. Maximum cable length 800 m shielded, 1200 m unshielded.

8) Rated current of the units with sinusoidal filter due to derating at a pulse frequency of 6 kHz, I_S = 110 A and therefore lower than for the units with 55 kW (no derating at 6 kHz).



Selection and ordering data

Nominal power rating	Inverter	Fuse switch disconnector for DC coupling[1)2)]			Inverter fuse Duty class gR [2)]			Inverter fuse Duty class aR [2)]		
			I_S	Max. fuse size		I_S	Size		I_S	Size
kW	Order No.	Order No.	A		Order No.	A		Order No.	A	
DC voltage 510 V to 650 V										
400 V										
2.2	**6SE7016–1TA61**[3)]	3NP40 10–0CH01	100	000	2 x 3NE1 814–0[4)]	20	000	2 x 3NE8 015[4)]	25	00
3	**6SE7018–0TA61**[3)]	3NP40 10–0CH01	100	000	2 x 3NE1 815–0[4)]	25	000	2 x 3NE8 015[4)]	25	00
4	**6SE7021–0TA61**[3)]	3NP40 10–0CH01	100	000	2 x 3NE1 815–0[4)]	25	000	2 x 3NE8 015[4)]	25	00
5.5	**6SE7021–3TB61**[3)]	3NP40 10–0CH01	100	000	2 x 3NE1 803–0[4)]	35	000	2 x 3NE8 017[4)]	50	00
7.5	**6SE7021–8TB61**[3)]	3NP40 10–0CH01	100	000	2 x 3NE1 817–0[4)]	50	000	2 x 3NE8 017[4)]	50	00
11	**6SE7022–6TC61**[3)]	3NP40 10–0CH01	100	000	2 x 3NE1 818–0[4)]	63	000	2 x 3NE8 020[4)]	80	00
15	**6SE7023–4TC61**[3)]	3NP40 10–0CH01	100	000	2 x 3NE1 820–0[4)]	80	000	2 x 3NE8 020[4)]	80	00
18.5	**6SE7023–8TD61**[3)]	3NP40 70–0CA01	160	00	2 x 3NE1 021–0[4)]	100	00	2 x 3NE8 022[4)]	125	00
22	**6SE7024–7TD61**[3)]	3NP40 70–0CA01	160	00	2 x 3NE1 022–0[4)]	125	00	2 x 3NE8 022[4)]	125	00
30	**6SE7026–0TD61**[3)]	3NP42 70–0CA01	250	0; 1	2 x 3NE1 224–0[4)]	160	0	2 x 3NE8 024[4)]	160	00
37	**6SE7027–2TD61**[3)]	3NP42 70–0CA01	250	0; 1	2 x 3NE1 224–0[4)]	160	0	2 x 3NE8 024[4)]	160	00
45	**6SE7031–0TE60**	3NP42 70–0CA01	250	0; 1	–			2 x 3NE3 224	160	1
55	**6SE7031–2TF60**	3NP42 70–0CA01	250	0; 1	–			2 x 3NE3 227	250	1
75	**6SE7031–5TF60**	3NP42 70–0CA01	250	0; 1	–			2 x 3NE3 227	250	1
90	**6SE7031–8TF60**	3NP43 70–0CA01	400	1; 2	–			2 x 3NE3 230–0B	315	1
110	**6SE7032–1TG60**	3NP44 70–0CA01	630	2; 3	–			2 x 3NE3 233	450	1
132	**6SE7032–6TG60**	3NP44 70–0CA01	630	2; 3	–			2 x 3NE3 233	450	1
160	**6SE7033–2TG60**	3NP44 70–0CA01	630	2; 3	–			2 x 3NE3 334–0B	500	2
200	**6SE7033–7TG60**	3NP44 70–0CA01	630	2; 3	–			2 x 3NE3 336	630	2
250	**6SE7035–1TJ60**	2 x 3NP43 70–0CA01	400	1; 2	–			2 x 2 x 3NE3 233[3)]	450	1
315	**6SE7036–0TJ60**	2 x 3NP44 70–0CA01	630	2; 3	–			2 x 2 x 3NE3 335[3)]	560	2
400	**6SE7037–0TJ60**	2 x 3NP44 70–0CA01	630	2; 3	–			2 x 2 x 3NE3 335[3)]	560	2
500	**6SE7038–6TK60**	2 x 3NP44 70–0CA01	630	2; 3	–			2 x 2 x 3NE3 337–8[3)]	710	2
630	**6SE7041–1TK60**	2 x 2 x 3NH3 330	700	2; 3	–			2 x 2 x 3NE3 338–8[3)]	800	2
710	**6SE7041–3TL60**							2 x 2 x 3NE3 340-8[3)]	900	2
900	without interphase transformer chassis **6SE7041–6TQ60**	4 x 3NP44 70–0CA01	630	2; 3	–			4 x 2 x 3NE3 337–8[3)]	710	2
900	with interphase transformer chassis **6SE7041–6TM60**	4 x 3NP44 70–0CA01	630	2; 3	–			4 x 2 x 3NE3 337–8[3)]	710	2
1300	without interphase transformer chassis **6SE7042–5TN60**	–	–	–	–			4 x 2 x 3NE3 340–8[3)]	900	2

1) See catalog "Low-voltage switchgear". Rated insulation voltage for pollution degree 3 to DIN VDE 0110, Part 1, but conditions of use to pollution degree 2. The rated insulation voltage is therefore ≥ 1000 V.

2) Note fuse sizes when selecting fuse switch disconnectors.

3) DC fuses are integral components of the inverter unit.

4) For the fusing of inverters without integrated DC link fuse (inverter with option L33).