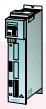
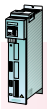
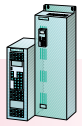


Selection and ordering data

Nominal power rating	Converter	Inverter	Output sinusoidal filter	$f_{max.}$	P_v max.	Output reactor 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 AC							
400 V			f_{pulse} = 6 kHz			$f_{pulse} \leq$ 3 kHz	
0.55	**6SE7011–5EP60**	–	–			6SE7013–0ES87–1FE0	50
1.1	**6SE7013–0EP60**	–	–			6SE7013–0ES87–1FE0	50
1.5	**6SE7015–0EP60**	–	6SE7016–1EA87–1FC0	400	150	6SE7015–0ES87–1FE0	60
3	**6SE7018–0EP60**	–	6SE7021–0EB87–1FC0	400	200	6SE7021–0ES87–1FE0	80
4	**6SE7021–0EP60**	–	6SE7021–0EB87–1FC0	400	200	6SE7021–0ES87–1FE0	80
5.5	**6SE7021–4EP60**	–	6SE7021–8EB87–1FC0	400	250	6SE7021–8ES87–1FE0	95
7.5	**6SE7022–1EP60**	–	6SE7022–6EC87–1FC0	400	300	6SE7022–6ES87–1FE0	110
11	**6SE7022–7EP60**	–	6SE7022–6EC87–1FC0	400	300	6SE7022–6ES87–1FE0	110
15	**6SE7023–4EP60**	–	6SE7023–4EC87–1FC0	400	400	6SE7023–4ES87–1FE0	130
Supply voltage 510 V to 650 V DC							
400 V			f_{pulse} = 6 kHz			$f_{pulse} \leq$ 3 kHz	
0.75	–	**6SE7012–0TP60**	–			6SE7013–0ES87–1FE0	50
1.5	–	**6SE7014–0TP60**	–			6SE7015–0ES87–1FE0	60
2.2	–	**6SE7016–0TP60**	6SE7016–1EA87–1FC0	400	150	6SE7016–1ES87–1FE0	80
4	–	**6SE7021–0TP60**	6SE7021–0EB87–1FC0	400	200	6SE7021–0ES87–1FE0	80
5.5	–	**6SE7021–3TP60**	6SE7021–8EB87–1FC0	400	250	6SE7021–8ES87–1FE0	95
7.5	–	**6SE7021–8TP60**	6SE7021–8EB87–1FC0	400	250	6SE7021–8ES87–1FE0	95
11	–	**6SE7022–6TP60**	6SE7022–6EC87–1FC0	400	300	6SE7022–6ES87–1FE0	110
15	–	**6SE7023–4TP60**	6SE7023–4EC87–1FC0	400	400	6SE7023–4ES87–1FE0	130
18.5	–	**6SE7023–8TP60**	6SE7024–7ED87–1FC0	400	500	6SE7024–7ES87–1FE0	190



Output filter reactor Ferrite-core reactor	$f_{max.}$	P_v max.	Output dv/dt filter $f_{max.}$ = 300 Hz	P_v max.
Order No.	Hz	W	Order No.	W
$f_{pulse} \leq 6$ kHz			$f_{pulse} \leq 3$ kHz	
–			–	
–			–	
6SE7016–1ES87–1FF1	600	96	6SE7016–2FB87–1FD0	100
6SE7021–0ES87–1FF1	600	96	6SE7021–5FB87–1FD0	150
6SE7021–0ES87–1FF1	600	96	6SE7021–5FB87–1FD0	150
6SE7021–8ES87–1FF1	600	96	6SE7021–5FB87–1FD0	150
6SE7022–6ES87–1FF0	600	100	6SE7022–2FC87–1FD0	170
6SE7022–6ES87–1FF0	600	100	6SE7022–2FC87–1FD0	170
6SE7023–4ES87–1FF0	600	115	6SE7023–4FC87–1FD0	170
$f_{pulse} \leq 6$ kHz			$f_{pulse} \leq 3$ kHz	
–			–	
–			–	
6SE7016–1ES87–1FF1	600	96	6SE7016–2FB87–1FD0	100
6SE7021–0ES87–1FF1	600	96	6SE7021–5FB87–1FD0	150
6SE7021–8ES87–1FF1	600	96	6SE7021–5FB87–1FD0	150
6SE7021–8ES87–1FF1	600	96	6SE7021–5FB87–1FD0	150
6SE7022–6ES87–1FF0	600	100	6SE7022–2FC87–1FD0	170
6SE7023–4ES87–1FF0	600	115	6SE7023–4FC87–1FD0	170
6SE7024–7ES87–1FF0	600	170	6SE7024–7FC87–1FD0	200



Selection and ordering data

Nominal power rating	Converter	Inverter	Output sinusoidal filter[1]	$f_{max.}$	P_v max.	Output reactor[1] 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) 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.

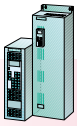
4) Rated current of the units with sinusoidal filter due to derating at a pulse frequency of 6 kHz, I_S = 195 A.

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).

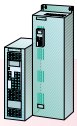


Output filter reactor Ferrite-core reactor	$f_{max.}$	P_v max.	Output dv/dt filter $f_{max.}$ = 300 Hz	P_v max.
Order No.	Hz	W	Order No.	W
$f_{pulse} \leq$ 6 kHz			$f_{pulse} \leq$ 3 kHz	
6SE7016–1ES87–1FF1	600	96	6SE7016–2FB87–1FD0	100
6SE7021–0ES87–1FF1	600	96	6SE7021–5FB87–1FD0	150
6SE7021–0ES87–1FF1	600	96	6SE7021–5FB87–1FD0	150
6SE7021–8ES87–1FF1	600	96	6SE7021–5FB87–1FD0	150
6SE7021–8ES87–1FF1	600	96	6SE7021–5FB87–1FD0	150
6SE7022–6ES87–1FF0	600	100	6SE7022–2FC87–1FD0	170
6SE7023–4ES87–1FF0	600	115	6SE7023–4FC87–1FD0	170
6SE7024–7ES87–1FF0	600	170	6SE7024–7FC87–1FD0	200
6SE7024–7ES87–1FF0	600	170	6SE7024–7FC87–1FD0	200
6SE7027–2ES87–1FF0	600	135	6SE7026–0HE87–1FD0	230
6SE7027–2ES87–1FF0	600	135	6SE7028–2HE87–1FD0	300
6SE7031–0ES87–1FF0	500	170	6SE7031–2HS87–1FD0	390
6SE7031–5ES87–1FF0	500	300	6SE7031–7HS87–1FD0	480
6SE7031–5ES87–1FF0	500	300	6SE7031–7HS87–1FD0	480
6SE7031–8ES87–1FF0	500	300	6SE7032–3HS87–1FD0	500
6SE7032–6ES87–1FF0	500	350	6SE7033–0HS87–1FD0	700
6SE7032–6ES87–1FF0	500	350	6SE7033–0HS87–1FD0	700
6SE7033–2ES87–1FF0	500	350	6SE7033–5HS87–1FD0	800
6SE7033–7ES87–1FF0	500	350	6SE7034–5HS87–1FD0	950
6SE7035–1ES87–1FF0	500	400	6SE7035–7HS87–1FD0	1300
6SE7037–0ES87–1FF0	500	480	6SE7036–5HS87–1FD0	1500
6SE7037–0ES87–1FF0	500	480	6SE7038–6HS87–1FD0	1800
6SE7038–6ES87–1FF0	500	530	6SE7038–6HS87–1FD0	1800
–			–	
–			–	
–			6SE7038–6HS87–1FD0 (2x)	1800 (2x)
–			–	
–			–	

Selection and ordering data

Nominal power rating	Converter	Inverter	Output sinusoidal filter	$f_{max.}$	P_v max.	Output reactor Iron-core reactor $f_{max.}$ = 300 Hz	P_v max.	Output dv/dt filter $f_{max.}$ = 300 Hz	P_v max.
kW	Order No.	Order No.	Order No.	Hz	W	Order No.	W	Order No.	W
Supply voltage 3-ph. 500 V to 600 V AC and DC voltage 675 V to 810 V DC									
500 V			$f_{pulse} \leq$ 3 kHz			$f_{pulse} \leq$ 3 kHz		$f_{pulse} \leq$ 3 kHz	
2.2	**6SE7014–5FB61**	**6SE7014–5UB61**	6SE7016–2FB87–1FH0	200	200	6SE7016–2FS87–1FE0	130	6SE7016–2FB87–1FD0	100
3	**6SE7016–2FB61**	**6SE7016–2UB61**	6SE7016–2FB87–1FH0	200	200	6SE7016–2FS87–1FE0	130	6SE7016–2FB87–1FD0	100
4	**6SE7017–8FB61**	**6SE7017–8UB61**	6SE7021–5FC87–1FH0	200	300	6SE7021–5FS87–1FE0	190	6SE7021–5FB87–1FD0	150
5.5	**6SE7021–1FB61**	**6SE7021–1UB61**	6SE7021–5FC87–1FH0	200	300	6SE7021–5FS87–1FE0	190	6SE7021–5FB87–1FD0	150
7.5	**6SE7021–5FB61**	**6SE7021–5UB61**	6SE7021–5FC87–1FH0	200	300	6SE7021–5FS87–1FE0	190	6SE7021–5FB87–1FD0	150
11	**6SE7022–2FC61**	**6SE7022–2UC61**	6SE7022–2FD87–1FH0	200	400	6SE7022–2FS87–1FE0	220	6SE7022–2FC87–1FD0	170
18.5	**6SE7023–0FD61**	**6SE7023–0UD61**	6SE7023–4FD87–1FH0	200	500	6SE7023–4FS87–1FE0	190	6SE7023–4FC87–1FD0	170
22	**6SE7023–4FD61**	**6SE7023–4UD61**	6SE7023–4FD87–1FH0	200	500	6SE7023–4FS87–1FE0	190	6SE7023–4FC87–1FD0	170
30	**6SE7024–7FD61**	**6SE7024–7UD61**	6SE7024–7FE87–1FH0	200	600	6SE7024–7FS87–1FE0	220	6SE7024–7FC87–1FD0	200
37	**6SE7026–1FE60**	**6SE7026–1UE60**	6SE7026–1FF87–1FH0	100	450	6SE7026–0HS87–1FE0	300	6SE7026–0HE87–1FD0	230
45	**6SE7026–6FE60**	**6SE7026–6UE60**	6SE7028–0FF87–1FH0	100	600	6SE7028–2HS87–1FE0	370	6SE7028–2HE87–1FD0	300
55	**6SE7028–0FF60**	**6SE7028–0UF60**	6SE7028–0FF87–1FH0	100	600	6SE7028–2HS87–1FE0	370	6SE7028–2HE87–1FD0	300
75	**6SE7031–1FF60**	**6SE7031–1UF60**	6SE7031–3FG87–1FH0	100	750	6SE7031–2HS87–1FE0	500	6SE7031–2HS87–1FD0	390
90	**6SE7031–3FG60**	**6SE7031–3UG60**	6SE7031–3FG87–1FH0	100	750	6SE7031–2HS87–1FE0	500	6SE7031–2HS87–1FD0	390
110	**6SE7031–6FG60**	**6SE7031–6UG60**	6SE7031–6FG87–1FH0	100	900	6SE7031–7HS87–1FE0	620	6SE7031–7HS87–1FD0	480
132	**6SE7032–0FG60**	**6SE7032–0UG60**	–			6SE7032–3HS87–1FE0	620	6SE7032–3HS87–1FD0	500
160	**6SE7032–3FG60**	**6SE7032–3UG60**	–			6SE7032–3HS87–1FE0	620	6SE7032–3HS87–1FD0	500
200	**6SE7033–0FK60**	**6SE7033–0UJ60**	–			6SE7033–0GS87–1FE0	870	6SE7033–0HS87–1FD0	700
250	**6SE7033–5FK60**	**6SE7033–5UJ60**	–			6SE7033–5GS87–1FE0	1050	6SE7033–5HS87–1FD0	800
315	**6SE7034–5FK60**	**6SE7034–5UJ60**	–			6SE7034–5GS87–1FE0	1270	6SE7034–5HS87–1FD0	950
400	**–**	**6SE7035–7UK60**	–			6SE7035–7GS87–1FE0	1840	6SE7035–7HS87–1FD0	1300
450	**–**	**6SE7036–5UK60**	–			6SE7036–5GS87–1FE0	1980	6SE7036–5HS87–1FD0	1500
630	**–**	**6SE7038–6UK60**	–			6SE7038–6GS87–1FE0	2350	6SE7038–6HS87–1FD0	1800
800	**–**	**6SE7041–1UL60**	–			6SE7041–2GS87–1FE0		on request[1]	
900	**–**	**6SE7041–2UL60**	–			6SE7041–2GS87–1FE0		on request[1]	
1000	**–**	without interphase transformer chassis **6SE7041–4UQ60**	–			6SE7038–6GS87–1FE0 (2x)	2350 (2x)	6SE7038–6HS87–1FD0 (2x)	1800 (2x)
1100	**–**	**6SE7041–6UQ60**	–			6SE7038–6GS87–1FE0 (2x)	2350 (2x)	6SE7038–6HS87–1FD0 (2x)	1800 (2x)
1000	**–**	with interphase transformer chassis **6SE7041–4UM60**	–			–			
1100	**–**	**6SE7041–6UM60**	–			–			
1500	**–**	without interphase transformer chassis **6SE7042–1UN60**	–			6SE7041–2GS87–1FE0 (2x)	2350 (2x)	on request	
1700	**–**	without interphase transformer chassis **6SE7042–3UN60**	–			6SE7041–2GS87–1FE0 (2x)	2350 (2x)	on request	

1) The following cable lengths are permissible in combination with the TG 31024-05 limiting network and output filter reactor:
30 m shielded/50 m unshielded; with 1 supplementary reactor (i.e. 2 output filter reactors)
100 m shielded/150 m unshielded.



Nominal power rating	Converter	Inverter	Output reactor Iron-core reactor $f_{max.}$ = 300 Hz	P_v max.	Output dv/dt filter $f_{max.}$ = 300 Hz	P_v max.
kW	Order No.	Order No.	Order No.	W	Order No.	W
Supply voltage 3-ph. 660 V to 690 V AC and DC voltage 890 V to 930 V DC						
690 V			$f_{pulse} \leq$ 3 kHz		$f_{pulse} \leq$ 3 kHz	
55	**6SE7026–0HF60**	**6SE7026–0WF60**	6SE7026–0HS87–1FE0	300	6SE7026–0HE87–1FD0	230
75	**6SE7028–2HF60**	**6SE7028–2WF60**	6SE7028–2HS87–1FE0	370	6SE7028–2HE87–1FD0	300
90	**6SE7031–0HG60**	**6SE7031–0WG60**	6SE7031–2HS87–1FE0	500	6SE7031–2HS87–1FD0	390
110	**6SE7031–2HG60**	**6SE7031–2WG60**	6SE7031–2HS87–1FE0	500	6SE7031–2HS87–1FD0	390
132	**6SE7031–5HG60**	**6SE7031–5WG60**	6SE7031–7HS87–1FE0	620	6SE7031–7HS87–1FD0	480
160	**6SE7031–7HG60**	**6SE7031–7WG60**	6SE7031–7HS87–1FE0	620	6SE7031–7HS87–1FD0	480
200	**6SE7032–1HG60**	**6SE7032–1WG60**	6SE7032–3HS87–1FE0	620	6SE7032–3HS87–1FD0	500
250	**6SE7033–0HK60**	**6SE7033–0WJ60**	6SE7033–0GS87–1FE0	870	6SE7033–0HS87–1FD0	700
315	**6SE7033–5HK60**	**6SE7033–5WJ60**	6SE7033–5GS87–1FE0	1050	6SE7033–5HS87–1FD0	800
400	**6SE7034–5HK60**	**6SE7034–5WJ60**	6SE7034–5GS87–1FE0	1270	6SE7034–5HS87–1FD0	950
500	**–**	**6SE7035–7WK60**	6SE7035–7GS87–1FE0	1840	6SE7035–7HS87–1FD0	1300
630	**–**	**6SE7036–5WK60**	6SE7036–5GS87–1FE0	1980	6SE7036–5HS87–1FD0	1500
800	**–**	**6SE7038–6WK60**	6SE7038–6GS87–1FE0	2350	6SE7038–6HS87–1FD0	1800
1000	**–**	**6SE7041–1WL60**	6SE7041–2GS87–1FE0		on request[1])	
1200	**–**	**6SE7041–2WL60**	6SE7041–2GS87–1FE0		on request[1])	
		without interphase transformer chassis				
1300	**–**	**6SE7041–4WQ60**	6SE7038–6GS87–1FE0 (2x)	2350 (2x)	6SE7038–6HS87–1FD0 (2x)	1800 (2x)
1500	**–**	**6SE7041–6WQ60**	6SE7038–6GS87–1FE0 (2x)	2350 (2x)	6SE7038–6HS87–1FD0 (2x)	1800 (2x)
		with interphase transformer chassis				
1300	**–**	**6SE7041–4WM60**	–	–	–	–
1500	**–**	**6SE7041–6WM60**	–	–	–	–
		without interphase transformer chassis				
1900	**–**	**6SE7042–1WN60**	6SE7041–2GS87–1FE0 (2x)	–	–	–
		without interphase transformer chassis				
2300	**–**	**6SE7042–3WN60**	6SE7041–2GS87–1FE0 (2x)	–	–	–

1) The following cable lengths are permissible in combination with the TG 31024-05 limiting network and output filter reactor:
30 m shielded/50 m unshielded; with 1 supplementary reactor (i.e. 2 output filter reactors)
100 m shielded/150 m unshielded.