

# SINAMICS G120C compact inverters

## 0.55 kW to 18.5 kW (0.75 hp to 25 hp)

Line-side components  
Line reactors

### Overview



Line reactor for SINAMICS G120C, frame size FSB

Line reactors are used to smooth voltage peaks or to bridge commutating dips. Line reactors also reduce the effects of harmonics on the inverter and the line supply.

If the ratio of the rated inverter power to the line supply short-circuit power is less than 1 %, then it is recommended to use a line reactor to reduce the current peaks.

### Selection and ordering data

Rated power		SINAMICS G120C		Line reactor
kW	hp	Type 6SL3210-...	Frame size	Order No.
<b>Line voltage 380 ... 480 V 3 AC</b>				
0.55	0.75	1KE11-8..1	FSA	<b>6SL3203-OCE13-2AA0</b>
0.75	1	1KE12-3..1		
1.1	1.5	1KE13-2..1		
1.5	2	1KE14-3..1	FSA	<b>6SL3203-OCE21-0AA0</b>
2.2	3	1KE15-8..1		
3	4	1KE17-5..1		
4	5	1KE18-8..1		
5.5	7.5	1KE21-3..1	FSB	<b>6SL3203-OCE21-8AA0</b>
7.5	10	1KE21-7..1		
11	15	1KE22-6..1	FSC	<b>6SL3203-OCE23-8AA0</b>
15	20	1KE23-2..1		
18.5	25	1KE23-8..1		

4

### Technical specifications

Line voltage 380 ... 480 V 3 AC		Line reactor			
		6SL3203-OCE13-2AA0	6SL3203-OCE21-0AA0	6SL3203-OCE21-8AA0	6SL3203-OCE23-8AA0
<b>Rated current</b>	A	4	11.3	22.3	47
<b>Power loss</b> at 50/60 Hz	W	23/26	36/40	53/59	88/97
<b>Line supply/load connection</b> 1L1, 1L2, 1L3 2L1, 2L2, 2L3		Screw-type terminals	Screw-type terminals	Screw-type terminals	Screw-type terminals
• Conductor cross-section	mm <sup>2</sup>	4	4	10	16
<b>PE connection</b>		M4 × 8; U washer; spring lock washer	M4 × 8; U washer; spring lock washer	M5 × 10; U washer; spring lock washer	M5 × 10; U washer; spring lock washer
<b>Degree of protection</b>		Control cabinet built-in unit IP20	Control cabinet built-in unit IP20	Control cabinet built-in unit IP20	Control cabinet built-in unit IP20
<b>Dimensions</b>					
• Width	mm (in)	125 (4.92)	125 (4.92)	125 (4.92)	190 (7.48)
• Height	mm (in)	120 (4.72)	140 (5.51)	145 (5.71)	220 (8.66)
• Depth	mm (in)	71 (2.80)	71 (2.80)	91 (3.58)	91 (3.58)
<b>Weight, approx.</b>	kg (lb)	1.1 (2.4)	2.1 (4.6)	2.95 (6.5)	7.8 (17.2)
<b>Suitable for SINAMICS G120C</b>	Type	6SL3210-1KE11-8..1 6SL3210-1KE12-3..1 6SL3210-1KE13-2..1	6SL3210-1KE14-3..1 6SL3210-1KE15-8..1 6SL3210-1KE17-5..1 6SL3210-1KE18-8..1	6SL3210-1KE21-3..1 6SL3210-1KE21-7..1	6SL3210-1KE22-6..1 6SL3210-1KE23-2..1 6SL3210-1KE23-8..1
• Frame size		FSA	FSA	FSB	FSC

# SINAMICS G120 standard inverters

## 0.37 kW to 250 kW (0.5 hp to 400 hp)

### Line-side components Line reactors

#### Selection and ordering data

Rated power		SINAMICS G120 PM240-2 Power Module Standard variant		Line reactor
kW	hp	Type 6SL3210-...	Frame size	Order No.
<b>380 ... 480 V 3 AC</b>				
0.55	0.75	1PE11-8..0	FSA	<b>6SL3203-0CE13-2AA0</b>
0.75	1.0	1PE12-3..0		
1.1	1.5	1PE13-2..0		
1.5	2	1PE14-3..0	FSA	
2.2	3	1PE16-1..0		<b>6SL3203-0CE21-0AA0</b>
3.0	4	1PE18-0..0		

Rated power		SINAMICS G120 PM240-2 Power Module Push-through variant		Line reactor
kW	hp	Type 6SL3211-...	Frame size	Order No.
<b>380 ... 480 V 3 AC</b>				
2.2	3	1PE16-1AL0	FSA	<b>6SL3203-0CE21-0AA0</b>
3.0	4	1PE18-0UL0		

Rated power		SINAMICS G120 PM240 Power Module		Line reactor
kW	hp	Type 6SL3224-...	Frame size	Order No.
<b>380 ... 480 V 3 AC</b>				
0.37	0.50	0BE13-7UA0	FSA	<b>6SE6400-3CC00-2AD3</b>
0.55	0.75	0BE15-5UA0		
0.75	1.0	0BE17-5UA0	FSA	<b>6SE6400-3CC00-4AD3</b>
1.1	1.5	0BE21-1UA0		
1.5	2	0BE21-5UA0	FSA	<b>6SE6400-3CC00-6AD3</b>
2.2	3	0BE22-2 . A0	FSB	
3.0	4	0BE23-0 . A0		<b>6SL3203-0CD21-0AA0</b>
4.0	5	0BE24-0 . A0	FSB	
7.5	10	0BE25-5 . A0	FSC	<b>6SL3203-0CD22-2AA0</b>
11.0	15	0BE27-5 . A0		
15.0	20	0BE31-1 . A0	FSC	<b>6SL3203-0CD23-5AA0</b>
18.5	25	0BE31-5 . A0	FSD	
22	30	0BE31-8 . A0		<b>6SL3203-0CJ24-5AA0</b>
30	40	0BE32-2 . A0	FSD	
37	50	0BE33-0 . A0	FSE	<b>6SL3203-0CJ28-6AA0</b>
45	60	0BE33-7 . A0		
55	75	0BE34-5 . A0	FSF	<b>6SE6400-3CC11-2FD0</b>
75	100	0BE35-5 . A0		
90	125	0BE37-5 . A0	FSF	<b>6SE6400-3CC11-7FD0</b>
110	150	0BE38-8UA0	FSF	
132	200	0BE41-1UA0	FSF	<b>6SL3000-0CE32-3AA0</b>
160	250	0XE41-3UA0	FSGX	
200	300	0XE41-6UA0	FSGX	<b>6SL3000-0CE33-3AA0</b>
250	400	0XE42-0UA0		

# SINAMICS G120 standard inverters

## 0.37 kW to 250 kW (0.5 hp to 400 hp)

### Line-side components Line reactors

#### Technical specifications

Line voltage 380 ... 480 V 3 AC		Line reactor	
		6SL3203-0CE13-2AA0	6SL3203-0CE21-0AA0
<b>Rated current</b>	A	4	11.3
<b>Power loss</b> at 50/60 Hz	W	23/26	36/40
<b>Line supply/load connection</b> 1L1, 1L2, 1L3/ 2L1, 2L2, 2L3		Screw terminals	Screw terminals
• Conductor cross-section	mm <sup>2</sup>	4	4
<b>PE connection</b>		M4 × 8; U washer; spring lock washer	M4 × 8; U washer; spring lock washer
<b>Degree of protection</b>		Control cabinet built-in unit IP20	Control cabinet built-in unit IP20
<b>Dimensions</b>			
• Width	mm (in)	125 (4.92)	125 (4.92)
• Height	mm (in)	120 (4.72)	140 (4.72)
• Depth	mm (in)	71 (2.80)	71 (2.80)
<b>Weight, approx.</b>	kg (lb)	1.1 (2.43)	2.1 (4.63)
<b>Suitable for PM240-2 Power Module standard variant</b>	Type	6SL3210-1PE11-8..0 6SL3210-1PE12-3..0 6SL3210-1PE13-2..0	6SL3210-1PE14-3..0 6SL3210-1PE16-1..0 6SL3210-1PE18-0..0
<b>Suitable for PM240-2 Power Module push-through variant</b>	Type	–	6SL3211-1PE16-1AL0 6SL3211-1PE18-0UL0
• Frame size		FSA	FSA

Line voltage 380 ... 480 V 3 AC		Line reactor			
		6SE6400-3CC00-2AD3	6SE6400-3CC00-4AD3	6SE6400-3CC00-6AD3	6SL3203-0CD21-0AA0
<b>Rated current</b>	A	1.9	3.5	4.8	9
<b>Power loss</b> at 50/60 Hz, approx.	W	6/7	12.5/15	7.5/9	9/11
<b>Line supply connection</b> U1, V1, W1		Screw terminals	Screw terminals	Screw terminals	Screw terminals
• Conductor cross-section	mm <sup>2</sup>	6	6	6	6
<b>Load connection</b>		Cable	Cable	Cable	Cable
• Conductor cross-section		4 × AWG16 (1.5 mm <sup>2</sup> )	4 × AWG16 (1.5 mm <sup>2</sup> )	4 × AWG16 (1.5 mm <sup>2</sup> )	4 × AWG16 (1.5 mm <sup>2</sup> )
• Length, approx.	m (ft)	0.38 (1.25)	0.38 (1.25)	0.38 (1.25)	0.46 (1.51)
<b>PE connection</b>		On housing with M5 screw stud	On housing with M5 screw stud	On housing with M5 screw stud	On housing with M5 screw stud
<b>Degree of protection</b>		IP20	IP20	IP20	IP20
<b>Dimensions</b>					
• Width	mm (in)	75.5 (2.97)	75.5 (2.97)	75.5 (2.97)	153 (6.02)
• Height	mm (in)	200 (7.87)	200 (7.87)	200 (7.87)	270 (10.63)
• Depth	mm (in)	50 (1.97)	50 (1.97)	50 (1.97)	50 (1.97)
<b>Possible as base component</b>		Yes	Yes	Yes	Yes
<b>Weight, approx.</b>	kg (lb)	0.6 (1.32)	0.8 (1.76)	0.6 (1.32)	3.4 (7.5)
<b>Suitable for PM240 Power Module</b>	Type	6SL3224-0BE13-7UA0 6SL3224-0BE15-5UA0	6SL3224-0BE17-5UA0 6SL3224-0BE21-1UA0	6SL3224-0BE21-5UA0	6SL3224-0BE22-2 . A0 6SL3224-0BE23-0 . A0
• Frame size		FSA	FSA	FSA	FSB