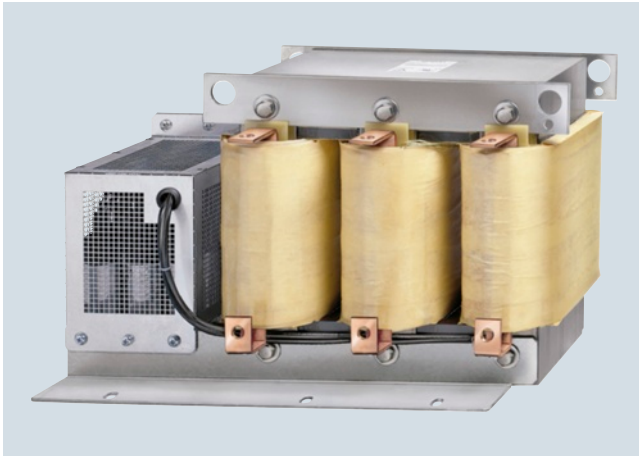


SINAMICS G130

Drive converter chassis units

Load-side power components > Sine-wave filters

Overview



Sine-wave filters are available in the voltage range 380 V to 480 V up to a type rating of 250 kW, and in the voltage range 500 V to 600 V up to a type rating of 132 kW.

The sine-wave filter at the converter output supplies almost perfect sinusoidal voltages on the motor so that standard motors can be used without special cables or power derating. Standard cables can be used.

Note the following when a sine-wave filter is used:

- The output frequency is limited to max. 150 Hz (at 380 to 480 V) and 115 Hz (at 500 to 600 V).
- The maximum output voltage is limited to approx. 85% of the input voltage.
- Maximum permissible motor cable lengths:
 - Unshielded cable: 450 m
 - Shielded cable: 300 m
- During commissioning, the pulse frequency is increased to double the factory setting. This induces current derating, which must be applied to the built-in units' rated currents listed in the technical specifications.

Note:

The reduced voltage at the motor terminals compared to the rated motor voltage means that the motor reaches the field weakening range earlier.

The sine-wave filter may be operated only when the motor is connected; sine-wave filters are not no-load-proof!

For further information on sine-wave filters, please refer to the [SINAMICS Low Voltage Engineering Manual](#).

Selection and ordering data

Suitable for Power Module	Type rating of the Power Module at 400 V or 500 V kW	Sine-wave filter Article No.
380 ... 480 V 3 AC		
6SL3310-1GE32-1AA3	110	6SL3000-2CE32-3AA0
6SL3310-1GE32-6AA3	132	
6SL3310-1GE33-1AA3	160	6SL3000-2CE32-8AA0
6SL3310-1GE33-8AA3	200	6SL3000-2CE33-3AA0
6SL3310-1GE35-0AA3	250	6SL3000-2CE34-1AA0
500 ... 600 V 3 AC		
6SL3310-1GF31-8AA3	110	6SL3000-2CF31-7AA0
6SL3310-1GF32-2AA3	132	

SINAMICS G130

Drive converter chassis units

Load-side power components > Sine-wave filters

Technical specifications

Line voltage 380 ... 480 V 3 AC		Sine-wave filter			
		6SL3000-2CE32-3AA0	6SL3000-2CE32-8AA0	6SL3000-2CE33-3AA0	6SL3000-2CE34-1AA0
Rated current ¹⁾	A	225	276	333	408
Power loss	kW	0.6	0.69	0.53	0.7
Connections					
• Load		1 × hole for M10	1 × hole for M10	1 × hole for M10	1 × hole for M10
• PE		1 × hole for M10	1 × hole for M10	1 × hole for M10	1 × hole for M10
Cable length, max. between sine-wave filter and motor					
• Shielded	m	300	300	300	300
• Unshielded	m	450	450	450	450
Degree of protection		IP00	IP00	IP00	IP00
Dimensions					
• Width	mm	620	620	620	620
• Height	mm	300	300	370	370
• Depth	mm	320	320	360	360
Weight, approx.	kg	124	127	136	198
Approvals, according to		cURus	cURus	cURus	cURus
Suitable for Power Module		6SL3310-1GE32-1AA3 (110 kW) 6SL3310-1GE32-6AA3 (132 kW)	6SL3310-1GE33-1AA3 (160 kW)	6SL3310-1GE33-8AA3 (200 kW)	6SL3310-1GE35-0AA3 (250 kW)

Line voltage 500 ... 600 V 3 AC		Sine-wave filter			
		6SL3000-2CF31-7AA0			
Rated current ²⁾	A	188			
Power loss	kW	0.8			
Connections					
• Load		1 × hole for M10			
• PE		1 × hole for M10			
Cable length, max. between sine-wave filter and motor					
• Shielded	m	300			
• Unshielded	m	450			
Degree of protection		IP00			
Dimensions					
• Width	mm	620			
• Height	mm	370			
• Depth	mm	360			
Weight, approx.	kg	210			
Approvals, according to		cURus			
Suitable for Power Module		6SL3310-1GF31-8AA3 (110 kW) 6SL3310-1GF32-2AA3 (132 kW)			

¹⁾ Output current of the Power Module at an adapted pulse frequency of 4 kHz.

²⁾ Output current of the Power Module at an adapted pulse frequency of 2.5 kHz.