SIEMENS

Data sheet for SINAMICS Power module PM240-2

Article No. :

6SL3210-1PH31-7CL0



Figure similar

Client order no.	:
Order no. :	
Offer no. :	
Remarks :	

Rated data		
Input		
Number of phases	3 AC	
Line voltage	500 690 V ±10	%
Line frequency	47 63 Hz	
Rated current (LO)	170.00 A	
Rated current (HO)	160.00 A	
Output		
Number of phases	3 AC	
Rated voltage	690V IEC	600V NEC ¹⁾
Rated power (LO)	160.00 kW	150.00 hp
Rated power (HO)	132.00 kW	150.00 hp
Rated current (LO)	171.00 A	
Rated current (HO)	144.00 A	
Max. output current	288.00 A	
Pulse frequency	2 kHz	
Output frequency for vector control	0 200 Hz	
Output frequency for V/f control	0 550 Hz	

Overload capability

Low Overload (LO)

1.1 x rated output current (i.e. 110 % overload) for 57 s with a cycle time of 300 s 1.5 \times rated output current (i.e. 150 % overload) for 3 s with a cycle time of 300 s

High Overload (HO)

 $1.5\times$ output current rating (i.e., 150 % overload) for 57 s with a cycle time of 300 s 2 \times output current rating (i.e., 200 % overload) for 3 s with a cycle time of 300 s

General tech. specifications		
Power factor λ	0.90	
Offset factor $\cos \phi$	0.98	
Efficiency η	0.99	
Sound pressure level (1m)	75 dB	
Power loss	2.93 kW	
Filter class (integrated)	-	

ltem no. : Consignment no. : Project :

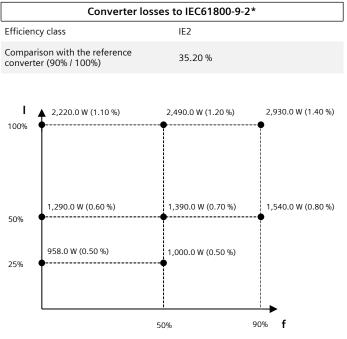
Ambient conditions			
Cooling	Internal air cooling		
Cooling air requirement	0.210 m ³ /s (7.416 ft ³ /s)		
Installation altitude	1,000 m (3,280.84 ft)		
Ambient temperature	1,000 m (3,200.04 m)		
Operation LO	-20 40 °C (-4 104 °F)		
Operation HO	-20 50 °C (-4 122 °F)		
Transport	-40 70 °C (-40 158 °F)		
Storage	-40 70 °C (-40 158 °F)		
Relative humidity			
Max. operation	95 % RH, condensation not permitted		
Co	onnections		
Line side			
Version	M10 bolt		
Conductor cross-section	35.00 2 x 185.00 mm² (AWG 2 AWG -5)		
Motor end			
Version	M10 bolt		
Conductor cross-section	35.00 2 x 185.00 mm ² (AWG 2 AWG -5)		
DC link (for braking resistor)			
Version	Screw-type terminals		
Conductor cross-section	25.00 70.00 mm ² (AWG 4 AWG -1)		
Cable length	10 m (32.81 ft)		
PE connection	M10 screw studs		
Max. motor cable length			
Shielded	300 m (984.25 ft)		
Unshielded	450 m (1,476.38 ft)		
Мес	hanical data		
Degree of protection	IP20 / UL open type		
Frame size	FSG		
Net weight	113.10 kg (249.34 lb)		
Dimensions			
Width	305 mm (12.01 in)		
Height	1,000 mm (39.37 in)		
Depth	357 mm (14.06 in)		
S	Standards		
Compliance with standards	UL, cUL, CE, C-Tick (RCM), EAC, SEMI F47		
CE marking	Low-voltage directive 2006/95/EC		

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The percentage values show the losses in relation to the rated apparent power of the converter.

The diagram shows the losses for the points (as per standard IEC61800-9-2) of the relative torque generating current (I) over the relative motor stator frequency (f). The values are valid for the basic version of the converter without options/components.

*converted values

¹⁾The output current and HP ratings are valid for the voltage range 550V-600V