SIEMENS

Data sheet for SINAMICS Power module PM240-2

6SL3210-1PH22-3AL0 Article No.:

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)	22.00 A	
Rated current (HO)	20.00 A	
Output		
Number of phases	3 AC	
Rated voltage	690V IEC	600V NEC 1)
Rated power (LO)	18.50 kW	20.00 hp
Rated power (HO)	15.00 kW	15.00 hp
Rated current (LO)	23.00 A	
Rated current (HO)	19.00 A	
Max. output current	38.00 A	
Pulse frequency	2 kHz	
Output frequency for vector control	0 200 Hz	
Output frequency for V/f control	0 550 Hz	
Overload capability		

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 $\cos\phi$	0.99	
Efficiency η	0.98	
Sound pressure level (1m)	72 dB	
Power loss	0.48 kW	
Filter class (integrated)	Class A	

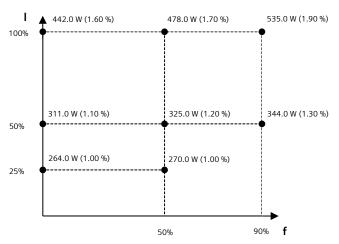
Ambient conditions		
Cooling	Internal air cooling	
Cooling air requirement	0.055 m³/s (1.942 ft³/s)	
Installation altitude	1,000 m (3,280.84 ft)	
Ambient temperature		
Operation LO	-20 40 °C (-4 104 °F)	
Operation HO	-20 50 °C (-4 122 °F)	
Transport	-40 70 °C (-40 158 °F)	
Storage	-40 70 °C (-40 158 °F)	
Relative humidity		
Max. operation	95 % RH, condensation not permitted	
Connections		
Line side		
Version	screw-type terminal	
Conductor cross-section	10.00 35.00 mm ² (AWG 8 AWG 2)	
Motor end		
Version	Screw-type terminals	
Conductor cross-section	10.00 35.00 mm ² (AWG 8 AWG 2)	
DC link (for braking resistor)		
Version	Screw-type terminals	
Conductor cross-section	2.50 16.00 mm ² (AWG 14 AWG 6)	
Cable length	10 m (32.81 ft)	
PE connection	Screw-type terminals	
Max. motor cable length		
Shielded	200 m (656.17 ft)	
Unshielded	300 m (984.25 ft)	
Med	hanical data	
Degree of protection	IP20 / UL open type	
Frame size	FSD	
Net weight	18.50 kg (40.79 lb)	
Dimensions		
Width	200 mm (7.87 in)	
Height	472 mm (18.58 in)	
Depth	237 mm (9.33 in)	
Standards		
S	standards	
S Compliance with standards	UL, cUL, CE, C-Tick (RCM), SEMI F47	



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Converter losses to IEC61800-9-2*		
Efficiency class	IE2	
Comparison with the reference converter (90% / 100%)	39.20 %	



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