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Data sheet for SINAMICS Power module PM240P-2

Article No. :

6SL3210-1RH23-5AL0



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)	33.00 A	
Rated current (HO)	28.00 A	
Output		
Number of phases	3 AC	
Rated voltage	690V IEC	600V NEC ¹⁾
Rated power (LO)	30.00 kW	30.00 hp
Rated power (HO)	22.00 kW	25.00 hp
Rated current (LO)	35.00 A	
Rated current (HO)	27.00 A	
Max. output current	48.00 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 1.35 × rated output current (i.e. 135 % overload) for 3 s with a cycle time of 300 s

High Overload (HO)

 $1.5 \times \text{output}$ current rating (i.e., 150 % overload) for 60 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	0.78 kW	
Filter class (integrated)	Class A	

ltem no. : Consignment no. : Project :

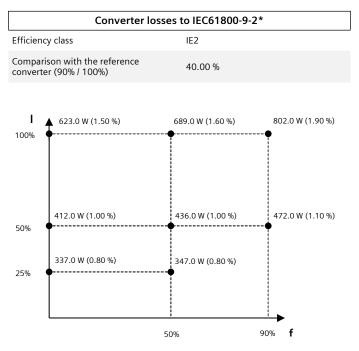
Ambient conditions		
Cooling	Internal air cooling	
Cooling air requirement	0.055 m³/s (1.942 ft³/s)	
Installation altitude	1,000 m (3,280.84 ft)	
Ambient temperature		
Operation LO	-20 40 °C (-4 104 °F)	
Operation HO	-20 50 °C (-4 122 °F)	
Transport	-40 70 °C (-40 158 °F)	
Storage	-40 70 °C (-40 158 °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 mm² (AWG 8 AWG 2)	
Max. motor cable length		
Shielded	200 m (656.17 ft)	
Unshielded	300 m (984.25 ft)	
Mec	hanical data	
Degree of protection	IP20 / UL open type	
Frame size	FSD	
Net weight	18.90 kg (41.67 lb)	
Dimensions		
Width	200 mm (7.87 in)	
Height	472 mm (18.58 in)	
Depth	237 mm (9.33 in)	
Standards		
Compliance with standards	UL, cUL, CE, C-Tick (RCM), 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.

*calculated values

 $^{1)}\mbox{The output current and HP ratings are valid for the voltage range 550V-600V$