SIEMENS

Data sheet for SINAMICS Power module PM240-2

Article No. :

6SL3210-1PE31-1UL0



Figure similar

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

Rated data			
Input			
Number of phases	3 AC		
Line voltage	380 480 V ±10	%	
Line frequency	47 63 Hz		
Rated current (LO)	104.00 A		
Rated current (HO)	94.00 A		
Output			
Number of phases	3 AC		
Rated voltage	400V IEC	480V NEC 1)	
Rated power (LO)	55.00 kW	75.00 hp	
Rated power (HO)	45.00 kW	60.00 hp	
Rated current (LO)	110.00 A		
Rated current (HO)	90.00 A		
Max. output current	180.00 A		
Pulse frequency	4 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 × 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	0.95		
Offset factor $\cos\phi$	0.99		
Efficiency η	0.98		
Sound pressure level (1m)	71 dB		
Power loss	1.54 kW		
Filter class (integrated)	-		

ltem no. : Consignment no. : Project :

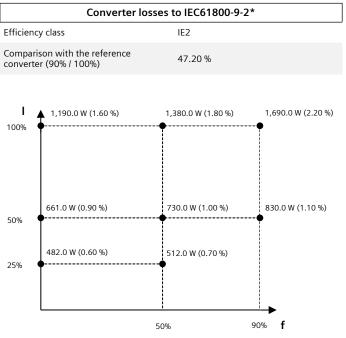
Amb	ient conditions
Cooling	Internal air cooling
Cooling air requirement	0.083 m ³ /s (2.931 ft ³ /s)
Installation altitude	1,000 m (3,280.84 ft)
Ambient temperature	
Operation LO	-20 40 °C (-4 104 °F)
Operation HO	-20 50 °C (-4 122 °F)
Transport	-40 70 °C (-40 158 °F)
Storage	-40 70 °C (-40 158 °F)
Relative humidity	
Max. operation	95 % RH, condensation not permitted
C	onnections
Line side	
Version	screw-type terminal
Conductor cross-section	25.00 70.00 mm² (AWG 4 AWG -1)
Motor end	
Version	Screw-type terminals
Conductor cross-section	25.00 70.00 mm² (AWG 4 AWG -1)
DC link (for braking resistor)	
Version	Screw-type terminals
Conductor cross-section	10.00 35.00 mm² (AWG 8 AWG 2)
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)
Ме	chanical data
Degree of protection	IP20 / UL open type
Frame size	FSE
Net weight	26.00 kg (57.32 lb)
Dimensions	
Width	275 mm (10.83 in)
Height	551 mm (21.69 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.

*converted values

¹⁾The output current and HP ratings are valid for the voltage range 440V-480V