# **SIEMENS**

## Data sheet for SINAMICS Power module PM240-2

#### Article No. :

#### 6SL3210-1PE27-5UL0



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)	70.00 A		
Rated current (HO)	62.00 A		
Output			
Number of phases	3 AC		
Rated voltage	400V IEC	480V NEC 1)	
Rated power (LO)	37.00 kW	50.00 hp	
Rated power (HO)	30.00 kW	40.00 hp	
Rated current (LO)	75.00 A		
Rated current (HO)	60.00 A		
Max. output current	120.00 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  $\times$  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 $\lambda$	0.95		
Offset factor $\cos \phi$	0.99		
Efficiency η	0.98		
Sound pressure level (1m)	72 dB		
Power loss	1.01 kW		
Filter class (integrated)	-		

ltem no. : Consignment no. : Project :

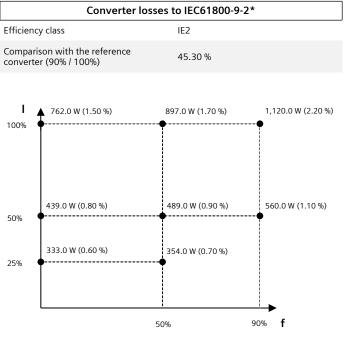
Ambient conditions				
Cooling	Internal air cooling			
Cooling air requirement	0.055 m³/s (1.942 ft³/s)			
Installation altitude	1,000 m (3,280.84 ft)			
Ambient temperature				
Operation LO	-20 40 °C (-4 104 °F)			
Operation HO	-20 50 °C (-4 122 °F)			
Transport	-40 70 °C (-40 158 °F)			
Storage	-40 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 mm² (AWG 8 AWG 2)			
Motor end				
Version	Screw-type terminals			
Conductor cross-section	10.00 35.00 mm <sup>2</sup> (AWG 8 AWG 2)			
DC link (for braking resistor)				
Version	Screw-type terminals			
Conductor cross-section	2.50 16.00 mm² (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)			
Mechanical data				
Degree of protection	IP20 / UL open type			
Frame size	FSD			
Net weight	17.00 kg (37.48 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.

\*converted values

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