# **SIEMENS**

## **Data sheet for SINAMICS Power module PM250**

6SL3225-0BE33-0UA0 Article No.:

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)	56.00 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 λ	0.90	
Offset factor $\cos\phi$	0.95	
Efficiency η	0.97	
Sound pressure level (1m)	60 dB	
Power loss	0.99 kW	
Filter class (integrated)	-	

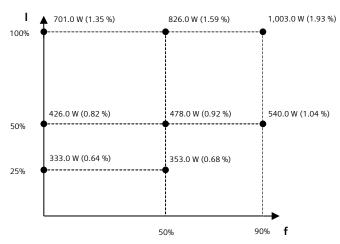
Ambien	Ambient conditions		
Cooling	Internal air cooling		
Cooling air requirement	0.022 m³/s (0.777 ft³/s)		
Installation altitude	1,000 m (3,280.84 ft)		
Ambient temperature			
Operation LO	0 40 °C (32 104 °F)		
Operation HO	0 50 °C (32 122 °F)		
Transport	-25 55 °C (-13 131 °F)		
Storage	-25 55 °C (-13 131 °F)		
Relative humidity			
Max. operation	95 % RH, condensation not permitted		
Connections			
Line side			
Version	M6 bolt		
Conductor cross-section	10.00 50.00 mm² (AWG 8 AWG 1)		
Motor end			
Version	M6 bolt		
Conductor cross-section	10.00 50.00 mm² (AWG 8 AWG 1)		
Max. motor cable length			
Shielded	50 m (164.04 ft)		
Unshielded	100 m (328.08 ft)		
Mecha	Mechanical data		
Degree of protection	IP20 / UL open type		
Degree of protection Frame size	IP20 / UL open type FSE		
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Frame size	FSE		
Frame size Net weight	FSE		
Frame size Net weight Dimensions	FSE 14.00 kg (30.86 lb)		
Frame size Net weight Dimensions Width	FSE 14.00 kg (30.86 lb) 275 mm (10.83 in)		
Frame size  Net weight  Dimensions  Width  Height  Depth	FSE 14.00 kg (30.86 lb) 275 mm (10.83 in) 499 mm (19.65 in)		
Frame size  Net weight  Dimensions  Width  Height  Depth	FSE 14.00 kg (30.86 lb)  275 mm (10.83 in) 499 mm (19.65 in) 204 mm (8.03 in)		



## **Data sheet for SINAMICS Power module PM250**

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Converter losses to IEC61800-9-2*	
Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	59.71 %



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