## **SIEMENS**

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

Article No.: 6SL3225-0BE33-0AA0

Client order no. : Order no. : Offer no. : Remarks : Item no. : Consignment no. : Project :



Figure simila

Rated data		
Input		
Number of phases	3 AC	
Line voltage	380 480 V ±10	1 %
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		

Overload	capability
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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)	Class A	

Ambient conditions		
Cooling	Internal air cooling	
Cooling air requirement	0.022 m <sup>3</sup> /s (0.777 ft <sup>3</sup> /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 mm <sup>2</sup> (AWG 8 AWG 1)	
Motor end		
Version	M6 bolt	
Conductor cross-section	10.00 50.00 mm <sup>2</sup> (AWG 8 AWG 1)	
Max. motor cable length		
Shielded	50 m (164.04 ft)	
Unshielded	100 m (328.08 ft)	
Mechanical data		
Degree of protection	IP20 / UL open type	
Frame size	FSE	
Net weight	21.00 kg (46.30 lb)	
Dimensions		
Width	275 mm (10.83 in)	
Height	635 mm (25.00 in)	
Depth	204 mm (8.03 in)	
Standards		

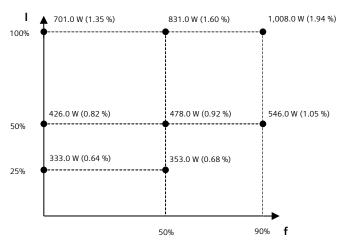




## **Data sheet for SINAMICS Power module PM250**

6SL3225-0BE33-0AA0 Article No.:

Converter losses to IEC61800-9-2*	
Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	59.50 %



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