SIEMENS

Data sheet for SINAMICS Power module PM250

6SL3225-0BE33-7UA0 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)	84.00 A	
Rated current (HO)	70.00 A	
Output		
Number of phases	3 AC	
Rated voltage	400V IEC	480V NEC 1)
Rated power (LO)	45.00 kW	60.00 hp
Rated power (HO)	37.00 kW	50.00 hp
Rated current (LO)	90.00 A	
Rated current (HO)	75.00 A	
Max. output current	150.00 A	
Pulse frequency	4 kHz	
Output frequency for vector control	0 200 Hz	
Output frequency for V/f control	0 550 Hz	
Overload capability		

	Overioad	capabi	iity
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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)	62 dB	
Power loss	1.21 kW	
Filter class (integrated)	-	

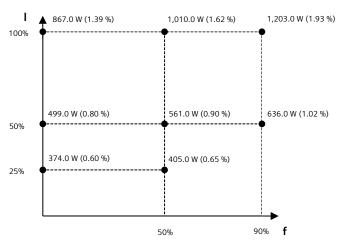
Ambient conditions		
Cooling	Internal air cooling	
Cooling air requirement	0.039 m³/s (1.377 ft³/s)	
Installation altitude	1,000 m (3,280.84 ft)	
	1,000 III (3,280.84 II)	
Ambient temperature	0 40 %C (22 404 %F)	
Operation LO	0 40 °C (32 104 °F) 0 50 °C (32 122 °F)	
Operation HO		
Transport	-25 55 °C (-13 131 °F)	
Storage	-25 55 °C (-13 131 °F)	
Relative humidity	05 % Bu	
Max. operation	95 % RH, condensation not permitted	
(Connections	
Line side		
Version	M6 bolt	
Conductor cross-section	10.00 50.00 mm ² (AWG 8 AWG 1)	
Motor end		
Version	M6 bolt	
Conductor cross-section	10.00 50.00 mm ² (AWG 8 AWG 1)	
Max. motor cable length		
Shielded	50 m (164.04 ft)	
Unshielded	100 m (328.08 ft)	
Me	echanical data	
Degree of protection	IP20 / UL open type	
Frame size	FSE	
Net weight	14.00 kg (30.86 lb)	
Dimensions		
Width	275 mm (10.83 in)	
Height	499 mm (19.65 in)	
Depth	204 mm (8.03 in)	
Standards		
Compliance with standards	CE, C-Tick (RCM)	
CE marking	Low-voltage directive 2006/95/EC	



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Converter losses to IEC61800-9-2*		
Efficiency class	IE2	
Comparison with the reference converter (90% / 100%)	59.37 %	



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