SIEMENS

Data sheet for SINAMICS Power module PM230

6SL3223-0DE31-1BG1 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)	27.00 A	
Rated current (HO)	19.00 A	
Output		
Number of phases	3 AC	
Rated voltage	400V IEC	480V NEC 1)
Rated power (LO)	11.00 kW	15.00 hp
Rated power (HO)	7.50 kW	10.00 hp
Rated current (LO)	26.00 A	
Rated current (HO)	18.00 A	
Max. output current	39.00 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)	66 dB	
Power loss	0.32 kW	
Filter class (integrated)	Class B	

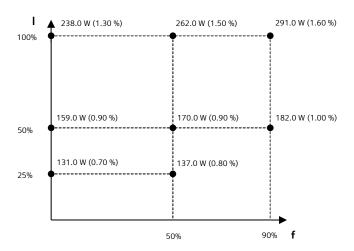
Cooling Internal air cooling Cooling air requirement 0.020 m³/s (0.706 ft³/s) Installation altitude 1,000 m (3,280.84 ft) Ambient temperature Operation LO -10 40 °C (14 104 °F) Operation HO -10 50 °C (14 122 °F) Transport -25 55 °C (-13 131 °F) Storage -25 55 °C (-13 131 °F) Relative humidity Max. operation 95 % RH, condensation not permitted Connections Line side Version Plug-in screw terminals Conductor cross-section 6.00 16.00 mm² (AWG 10 AWG 6) Motor end Version Plug-in screw terminals Conductor cross-section 6.00 16.00 mm² (AWG 10 AWG 6) Max. motor cable length Shielded 25 m (82.02 ft) Unshielded 100 m (328.08 ft) Mechanical data Degree of protection IP55 / UL type 12 Frame size FSC	1,000 m (3,280.84 ft) 1,00
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Mechanical data Degree of protection IP55 / UL type 12	Mechanical data
Degree of protection IP55 / UL type 12	
	protection IP55 / UL type 12
Frame size FSC	
	FSC
Net weight 9.50 kg (20.94 lb)	9.50 kg (20.94 lb)
Dimensions	ns
Width 230 mm (9.06 in)	230 mm (9.06 in)
Height 620 mm (24.41 in)	620 mm (24.41 in)
Depth 249 mm (9.80 in)	249 mm (9.80 in)
Standards	
Compliance with standards UL, CE, C-Tick (RCM)	Standards
CE marking Low-voltage directive 2006/95/EC	



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Article No.: 6SL3223-0DE31-1BG1

Converter losses to IEC61800-9-2*	
Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	31.20 %



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.

*calculated values

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