SIEMENS

Data sheet for SINAMICS Power module PM240-2

Article No.: 6SL3210-1PC22-8UL0

Client order no. : Order no. : Offer no. : Remarks :





Figure simila

Rated data		
Input		
Number of phases	3 AC	
Line voltage	200 240 V ±10	%
Line frequency	47 63 Hz	
Rated current (LO)	37.00 A	
Rated current (HO)	33.00 A	
Output		
Number of phases	3 AC	
Rated voltage	230V IEC	240V NEC 1)
Rated power (LO)	7.50 kW	10.00 hp
Rated power (HO)	5.50 kW	7.50 hp
Rated current (LO)	28.00 A	
Rated current (HO)	22.00 A	
Max. output current	44.00 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

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	0.85	
Offset factor $\cos\phi$	0.95	
Efficiency η	0.97	
Sound pressure level (1m)	65 dB	
Power loss	0.26 kW	
Filter class (integrated)	-	

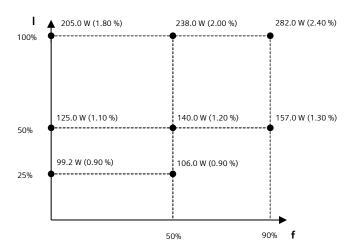
Cooling Internal air cooling Cooling air requirement 0.018 m³/s (0.653 ft²/s) Installation altitude 1,000 m (3,280.84 ft) Ambient temperature Operation LO -5 40 °C (23 104 °F) Operation HO -5 50 °C (23 122 °F) Transport -25 55 °C (-13 131 °F) Storage -25 55 °C (-13 131 °F) Relative humidity Max. operation 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 50 m (164.04 ft) Unshielded 50 m (164.04 ft) Unshielded 100 m (328.08 ft) Mechanical data Degree of protection P20 / UL open type Frame size FSC Net weight 5.00 kg (11.02 lb) Dimensions Width 140 mm (5.51 in) Height 355 mm (13.98 in) Depth 165 mm (6.50 in) Standards Compliance with standards UL, cUL, CE, C-Tick (RCM), SEMI F47 CE marking Low-voltage directive 2006/95/ECC	Amb	ient conditions	
Installation altitude 1,000 m (3,280.84 ft) Ambient temperature Operation LO -5 40 °C (23 104 °F) Operation HO -5 50 °C (23 122 °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 (AWG 10 AWG 6) Motor end Version Plug-in screw terminals Conductor cross-section (AWG 10 AWG 6) Max. motor cable length Shielded 50 m (16.00 mm² (AWG 10 AWG 6) 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 FSC Net weight 5.00 kg (11.02 lb) Dimensions Width 140 mm (5.51 in) Height 355 mm (13.98 in) Depth 165 mm (6.50 in) Standards Compliance with standards UL, cUL, CE, C-Tick (RCM), SEMI F47	Cooling	Internal air cooling	
Ambient temperature Operation LO	Cooling air requirement	0.018 m³/s (0.653 ft³/s)	
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Compliance with standards UL, cUL, CE, C-Tick (RCM), SEMI F47	Depth	165 mm (6.50 in)	
	Standards		
CE marking Low-voltage directive 2006/95/EC	Compliance with standards	UL, cUL, CE, C-Tick (RCM), SEMI F47	
	CE marking	Low-voltage directive 2006/95/EC	



Data sheet for SINAMICS Power module PM240-2

Article No.: 6SL3210-1PC22-8UL0

Converter losses to IEC61800-9-2*	
Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	44.60 %



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 220V-240V