SIEMENS

Data sheet for SINAMICS Power module PM240-2

Article No.: 6SL3210-1PE21-8AL0

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



Figure simila

Rated data					
Input					
-	Number of phases	3 AC			
-	ine voltage	380 480 V ±10 %	6		
ı	ine frequency	47 63 Hz			
-	Rated current (LO)	22.20 A			
1	Rated current (HO)	19.80 A			
Output					
-	Number of phases	3 AC			
ı	Rated voltage	400V IEC	480V NEC 1)		
	Rated power (LO)	7.50 kW	10.00 hp		
	Rated power (HO)	5.50 kW	7.50 hp		
	Rated current (LO)	18.00 A			
	Rated current (HO)	13.20 A			
	Max. output current	27.00 A			
-	Pulse frequency	4 kHz			
(Output frequency for vector control	0 200 Hz			
Output frequency for V/f control		0 550 Hz			
Ov	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 x 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)	72 dB			
Power loss	0.20 kW			
Filter class (integrated)	Class A			

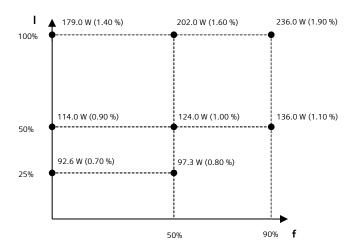
Cooling air requirement Installation altitude Installation altitude Ambient temperature Operation LO Operation HO -5 40 °C (23 104 °F) Operation HO -5 50 °C (23 122 °F) Transport -25 55 °C (-13 131 °F) Storage -25 55 °C (-13 131 °F) Relative humidity Max. operation Onerations Line side Version Plug-in screw terminals Conductor cross-section Ambient temperature Connections Line side Version Plug-in screw terminals Conductor cross-section Ambient temperature Connections Line side Version Plug-in screw terminals 1.50 6.00 mm² (AWG 16 AWG 10) Motor end Version Plug-in screw terminals Conductor cross-section 1.50 6.00 mm² (AWG 16 AWG 10) 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 FSB Net weight 3.20 kg (7.05 lb) Dimensions Width 100 mm (3.94 in) Height 292 mm (11.50 in) Depth 165 mm (6.50 in) Standards Compliance with standards UL, cUL, CE, C-Tick (RCM), SEMI F47	Ambient conditions				
Installation altitude Ambient temperature Operation LO Operation HO -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 One ctions Line side Version Plug-in screw terminals Conductor cross-section AWG 16 AWG 10) Motor end Version Plug-in screw terminals Conductor cross-section AWG 16 AWG 10) Max. motor cable length Shielded 50 m (164.04 ft) Unshielded 100 m (328.08 ft) Mechanical data Degree of protection PSB Net weight 3.20 kg (7.05 lb) Dimensions Width 100 mm (3.94 in) Height 292 mm (11.50 in) Depth 165 mm (6.50 in) Standards Compliance with standards UL, cUL, CE, C-Tick (RCM), SEMI F47	Cooling	Internal air cooling			
Operation LO	Cooling air requirement	0.009 m ³ /s (0.325 ft ³ /s)			
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 Motor end Version Plug-in screw terminals Conductor cross-section Plug-in screw terminals	Installation altitude	1,000 m (3,280.84 ft)			
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Dimensions Width 100 mm (3.94 in) Height 292 mm (11.50 in) Depth 165 mm (6.50 in) Standards Compliance with standards UL, cUL, CE, C-Tick (RCM), SEMI F47	Frame size	FSB			
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Standards Compliance with standards UL, cUL, CE, C-Tick (RCM), SEMI F47	Height	292 mm (11.50 in)			
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.: 6SL3210-1PE21-8AL0

Converter losses to IEC61800-9-2*		
Efficiency class	IE2	
Comparison with the reference converter (90% / 100%)	34.80 %	



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