SIEMENS

Data sheet for SINAMICS Power module PM240P-2

Article No.: 6SL3210-1RE31-1AL0

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





Figure simila

Rated data		
Input		
Number of phases	3 AC	
Line voltage	380 480 V ±10	%
Line frequency	47 63 Hz	
Rated current (LO)	104.00 A	
Rated current (HO)	94.00 A	
Output		
Number of phases	3 AC	
Rated voltage	400V IEC	480V NEC 1)
Rated power (LO)	55.00 kW	60.00 hp
Rated power (HO)	45.00 kW	50.00 hp
Rated current (LO)	110.00 A	
Rated current (HO)	90.00 A	
Max. output current	149.00 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)

 $1.1\times$ rated output current (i.e. 110 % overload) for 57 s with a cycle time of 300 s 1.35 \times rated output current (i.e. 135 % 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 60 s with a cycle time of 300 s

General tech. specifications		
Power factor λ	0.95	
Offset factor $\cos\phi$	0.99	
Efficiency η	0.98	
Sound pressure level (1m)	71 dB	
Power loss	1.63 kW	
Filter class (integrated)	Class A	

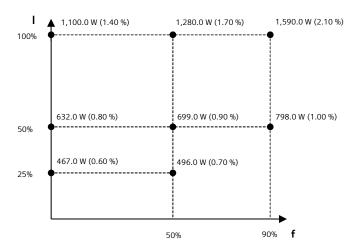
Cooling air requirement Installation altitude Installation altitue Installation altitue	Ambient conditions			
Installation altitude Ambient temperature Operation LO Operation HO	Cooling	Internal air cooling		
Operation LO Operation HO Opera	Cooling air requirement	0.083 m³/s (2.931 ft³/s)		
Operation LO -20 40 °C (-4 104 °F) Operation HO -20 50 °C (-4 122 °F) Transport -40 70 °C (-40 158 °F) Storage -40 70 °C (-40 158 °F) Relative humidity Max. operation 95 % RH, condensation not permitted Connections Line side Version screw-type terminal Conductor cross-section 25.00 70.00 mm² (AWG 4 AWG -1) Motor end Version Screw-type terminals Conductor cross-section 25.00 70.00 mm² (AWG 4 AWG -1) Max. motor cable length Shielded 200 m (656.17 ft) Unshielded 200 m (656.17 ft) Unshielded 300 m (984.25 ft) Mechanical data Degree of protection IP20 / UL open type Frame size FSE Net weight 28.00 kg (61.73 lb) Dimensions Width 275 mm (10.83 in) Height 551 mm (21.69 in) 237 mm (9.33 in)	Installation altitude	1,000 m (3,280.84 ft)		
Operation HO -20 50 °C (-4 122 °F) Transport -40 70 °C (-40 158 °F) Storage -40 70 °C (-40 158 °F) Relative humidity Max. operation 95 % RH, condensation not permitted Connections Line side Version Screw-type terminal Conductor cross-section Wotor end Version Screw-type terminals Conductor cross-section 25.00 70.00 mm² (AWG 4 AWG -1) Max. motor cable length Shielded 200 m (656.17 ft) Unshielded Degree of protection IP20 / UL open type Frame size FSE Net weight 28.00 kg (61.73 lb) Dimensions Width 275 mm (10.83 in) Height 551 mm (21.69 in) Depth 237 mm (9.33 in) Standards Compliance with standards UL, cUL, CE, C-Tick (RCM), SEMI F47	Ambient temperature			
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Width 275 mm (10.83 in) Height 551 mm (21.69 in) Depth 237 mm (9.33 in) Standards Compliance with standards UL, cUL, CE, C-Tick (RCM), SEMI F47	Frame size	FSE		
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Standards Compliance with standards UL, cUL, CE, C-Tick (RCM), SEMI F47	Height	551 mm (21.69 in)		
Compliance with standards UL, cUL, CE, C-Tick (RCM), SEMI F47	Depth	237 mm (9.33 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 PM240P-2

Article No.: 6SL3210-1RE31-1AL0

Converter losses to IEC61800-9-2*	
Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	44.50 %



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.

*calculated values

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