SIEMENS

Data sheet for SINAMICS Power module PM240-2

Article No.: 6SL3210-1PB21-4UL0

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





Figure simila

Rated data					
Input					
	Number of phases	1 / 3 AC			
	Line voltage	200 240 V ±10 °	%		
	Line frequency	47 63 Hz			
	Rated current (LO)	35.90 A / 20.70 A			
	Rated current (HO)	31.30 A / 18.10 A			
Output					
Т	Number of phases	3 AC			
	Rated voltage	230V IEC	240V NEC 1)		
	Rated power (LO)	3.00 kW	4.00 hp		
	Rated power (HO)	2.20 kW	3.00 hp		
	Rated current (LO)	13.60 A			
	Rated current (HO)	10.40 A			
	Max. output current	20.80 A			
	Pulse frequency	4 kHz			
	Output frequency for vector control	0 200 Hz			
	Output frequency for V/f control	0 550 Hz			
Overload canability					

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	0.96		
Sound pressure level (1m)	65 dB		
Power loss	0.14 kW		
Filter class (integrated)	-		

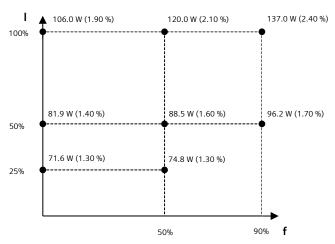
Ambient conditions					
Cooling	Internal air cooling				
Cooling air requirement	0.018 m³/s (0.653 ft³/s)				
Installation altitude	1,000 m (3,280.84 ft)				
Ambient temperature					
Operation LO	-5 40 °C (23 104 °F)				
Operation HO	-5 50 °C (23 122 °F)				
Transport	-25 55 °C (-13 131 °F)				
Storage	-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 mm ² (AWG 10 AWG 6)				
Motor end					
Version	Plug-in screw terminals				
Conductor cross-section	6.00 16.00 mm ² (AWG 10 AWG 6)				
Max. motor cable length					
Shielded	50 m (164.04 ft)				
Unshielded	100 m (328.08 ft)				
Mechan	ical 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)				
Stan	dards				
Compliance with standards	UL, cUL, CE, C-Tick (RCM), SEMI F47				
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%)	38.00 %	



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 220V-240V