SIEMENS

Data sheet for SINAMICS Power module PM240-2

Article No.: 6SL3210-1PH31-7CL0

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



Figure simila

Rated data		
Input		
Number of phases	3 AC	
Line voltage	500 690 V ±1	0 %
Line frequency	47 63 Hz	
Rated current (LO)	170.00 A	
Rated current (HO)	160.00 A	
Output		
Number of phases	3 AC	
Rated voltage	690V IEC	600V NEC 1)
Rated power (LO)	160.00 kW	150.00 hp
Rated power (HO)	132.00 kW	150.00 hp
Rated current (LO)	171.00 A	
Rated current (HO)	144.00 A	
Max. output current	288.00 A	
Pulse frequency	2 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	0.90	
Offset factor $\cos\phi$	0.98	
Efficiency η	0.99	
Sound pressure level (1m)	75 dB	
Power loss	2.93 kW	
Filter class (integrated)	-	

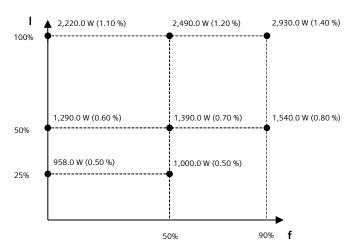
Amb	ient conditions		
Cooling	Internal air cooling		
Cooling air requirement	0.210 m ³ /s (7.416 ft ³ /s)		
Installation altitude	1,000 m (3,280.84 ft)		
Ambient temperature			
Operation LO	-20 40 °C (-4 104 °F)		
Operation HO	-20 50 °C (-4 122 °F)		
Transport	-40 70 °C (-40 158 °F)		
Storage	-40 70 °C (-40 158 °F)		
Relative humidity			
Max. operation	95 % RH, condensation not permitted		
Connections			
Line side			
Version	M10 bolt		
Conductor cross-section	35.00 2 x 185.00 mm ² (AWG 2 AWG -5)		
Motor end			
Version	M10 bolt		
Conductor cross-section	35.00 2 x 185.00 mm ² (AWG 2 AWG -5)		
DC link (for braking resistor)			
Version	Screw-type terminals		
Conductor cross-section	25.00 70.00 mm ² (AWG 4 AWG -1)		
Cable length	10 m (32.81 ft)		
PE connection	M10 screw studs		
Max. motor cable length			
Shielded	300 m (984.25 ft)		
Unshielded	450 m (1,476.38 ft)		
Me	chanical data		
Degree of protection	IP20 / UL open type		
Frame size	FSG		
Net weight	113.10 kg (249.34 lb)		
Dimensions			
Width	305 mm (12.01 in)		
Height	1,000 mm (39.37 in)		
Depth	357 mm (14.06 in)		
	Standards		
Compliance with standards	UL, cUL, CE, C-Tick (RCM), EAC, 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%)	35.20 %	



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.

*converted values

¹⁾ The output current and HP ratings are valid for the voltage range 550V-600V