SIEMENS

Data sheet for SINAMICS Power module PM240-2

Article No.: 6SL3210-1PB21-4AL0

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



Figure similar

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

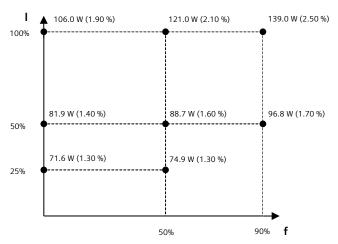
conditions		
Internal air cooling		
0.018 m³/s (0.653 ft³/s)		
1,000 m (3,280.84 ft)		
-5 40 °C (23 104 °F)		
-5 50 °C (23 122 °F)		
-25 55 °C (-13 131 °F)		
-25 55 °C (-13 131 °F)		
95 % RH, condensation not permitted		
Connections		
Plug-in screw terminals		
1.50 6.00 mm ² (AWG 16 AWG 10)		
Plug-in screw terminals		
1.50 6.00 mm ² (AWG 16 AWG 10)		
50 m (164.04 ft)		
100 m (328.08 ft)		
ical data		
IP20 / UL open type		
FSC		
5.20 kg (11.46 lb)		
140 mm (5.51 in)		
355 mm (13.98 in)		
165 mm (6.50 in)		
Standards		
UL, cUL, CE, C-Tick (RCM), SEMI F47		



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Converter losses to IEC61800-9-2*		
Efficiency class	IE2	
Comparison with the reference converter (90% / 100%)	38.60 %	



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.

*converted values

¹⁾ The output current and HP ratings are valid for the voltage range 220V-240V