SIEMENS

Data sheet for SINAMICS Power module PM240-2

Article No.: 6SL3210-1PE31-5UL0

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)	140.00 A	
Rated current (HO)	117.00 A	
Output		
Number of phases	3 AC	
Rated voltage	400V IEC	480V NEC 1)
Rated power (LO)	75.00 kW	100.00 hp
Rated power (HO)	55.00 kW	75.00 hp
Rated current (LO)	145.00 A	
Rated current (HO)	110.00 A	
Max. output current	220.00 A	
Pulse frequency	2 kHz	
Output frequency for vector control	0 200 Hz	
Output frequency for V/f control	0 550 Hz	
Overland comphility		

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	0.95	
Offset factor $\cos\phi$	0.99	
Efficiency η	0.98	
Sound pressure level (1m)	68 dB	
Power loss	1.78 kW	
Filter class (integrated)	-	

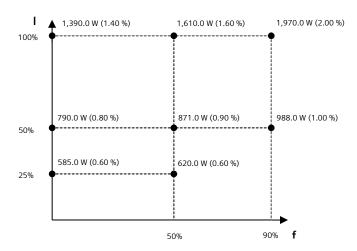
Ambient conditions		
Cooling	Internal air cooling	
Cooling air requirement	0.153 m³/s (5.403 ft³/s)	
Installation altitude	1,000 m (3,280.84 ft)	
Ambient temperature		
Operation LO	-20 40 °C (-4 104 °F)	
Operation HO	-20 50 °C (-4 122 °F)	
Transport	-40 70 °C (-40 158 °F)	
Storage	-40 70 °C (-40 158 °F)	
Relative humidity		
Max. operation	95 % RH, condensation not permitted	
Con	nections	
Line side		
Version	M10 bolt	
Conductor cross-section	35.00 120.00 mm² (AWG 2 AWG -3)	
Motor end		
Version	M10 bolt	
Conductor cross-section	35.00 120.00 mm² (AWG 2 AWG -3)	
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)	
Mechanical data		
Degree of protection	IP20 / UL open type	
Frame size	FSF	
Net weight	57.00 kg (125.66 lb)	
Dimensions		
Width	305 mm (12.01 in)	
Height	708 mm (27.87 in)	
Depth	357 mm (14.06 in)	
Standards		
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%)	42.00 %	



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.

*calculated values

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