SIEMENS

Data sheet for SINAMICS Power module PM240-2

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

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





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	
Overload capability		

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

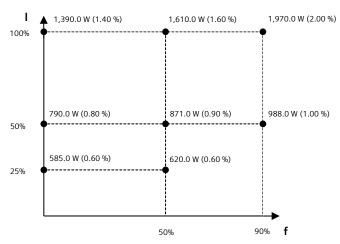
Ambient conditions		
Internal air cooling		
0.153 m³/s (5.403 ft³/s)		
1,000 m (3,280.84 ft)		
-20 40 °C (-4 104 °F)		
-20 50 °C (-4 122 °F)		
-40 70 °C (-40 158 °F)		
-40 70 °C (-40 158 °F)		
95 % RH, condensation not permitted		
ections		
M10 bolt		
35.00 120.00 mm ² (AWG 2 AWG -3)		
M10 bolt		
35.00 120.00 mm ² (AWG 2 AWG -3)		
Screw-type terminals		
25.00 70.00 mm² (AWG 4 AWG -1)		
10 m (32.81 ft)		
M10 screw studs		
300 m (984.25 ft)		
450 m (1,476.38 ft)		
nical data		
IP20 / UL open type		
IP20 / UL open type FSF		
FSF		
FSF		
FSF 57.00 kg (125.66 lb)		
FSF 57.00 kg (125.66 lb) 305 mm (12.01 in)		
FSF 57.00 kg (125.66 lb) 305 mm (12.01 in) 708 mm (27.87 in)		
FSF 57.00 kg (125.66 lb) 305 mm (12.01 in) 708 mm (27.87 in) 357 mm (14.06 in)		



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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.

*converted values

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