SIEMENS

Data sheet for SINAMICS Power Module PM240-2

MLFB-Ordering data

6SL3210-1PE31-1AL0



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

Rated data		General te	General tech. specifications	
Input		Power factor λ	0.95	
Number of phases	3 AC	Offset factor cos φ	0.99	
Line voltage	380 480 V ±10 %	Efficiency η	0.98	
Line frequency	47 63 Hz	Sound pressure level (1m)	71 dB	
Rated current (LO)	104.00 A	Power loss	1.55 kW	
Rated current (HO)	94.00 A	Filter class (integrated)	Class A	
Output		Ambie	nt conditions	
Number of phases	3 AC			
Rated voltage	400 V	Cooling	Internal air cooling	
Rated current (LO)	110.00 A	Cooling air requirement	0.083 m³/s (2.931 ft³/s)	
Rated current (HO)	90.00 A	Installation altitude	1000 m (3280.84 ft)	
Max. output current	180.00 A	Ambient temperature		
Rated power IEC 400V (LO)	55.00 kW	Operation LO	-20 40 °C (-4 104 °F)	
Rated power NEC 480V (LO)	75.00 hp	Operation HO	-20 50 °C (-4 122 °F)	
Rated power IEC 400V (HO)	45.00 kW	Transport	-40 70 °C (-40 158 °F)	
Rated power NEC 480V (HO)	60.00 hp	Storage	-40 70 °C (-40 158 °F)	
Pulse frequency	4 kHz	Relative humidity		
Output frequency for vector control	0 200 Hz		OF (V DU)	
Output frequency for V/f control	0 550 Hz	Max. operation 95 % RI	95 % RH, condensation not permitted	

Overload capability Low Overload (LO)

 $1.1 \times \text{rated}$ output current (i.e. 110 % overload) for 57 s with a cycle time of 300 s $1.5 \times \text{rated}$ output current (i.e. 150 % overload) for 3 s with a cycle time of 300 s

High Overload (HO)

1.5 × output current rating (i.e., 150 % overload) for 57 s with a cycle time of 300 s 2 × output current rating (i.e., 200 % overload) for 3 s with a cycle time of 300 s



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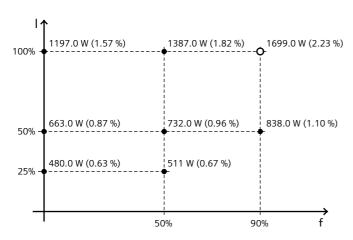


Figure similar

Mechanical data		Connections	
Degree of protection	IP20 / UL open type	Line side	
Size	FSE	Version	screw-type terminal
Net weight	28.00 kg (61.73 lb)	Conductor cross-section	25.00 70.00 mm² (AWG 4 AWG -1)
Width	275 mm (10.83 in)	Motor end	
Height	551 mm (21.69 in)	Version	Screw-type terminals
Depth	237 mm (9.33 in)	Conductor cross-section	25.00 70.00 mm² (AWG 4 AWG -1)

Converter losses to EN 50598-2*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-52.95 %



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 EN 50598) 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.

DC link (for braking resistor)

Version	Screw-type terminals
Conductor cross-section	10.00 35.00 mm² (AWG 8 AWG 2)
Cable length	10 m (32.81 ft)
PE connection	Screw-type terminals
Max. motor cable length	

Shielded	200 m (656.17 ft)
Unshielded	300 m (984.25 ft)

Standards

Compliance with standards	UL, cUL, CE, C-Tick (RCM), SEMI F47

CE marking Low-voltage directive 2006/95/EC

^{*}converted values