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Data sheet for SINAMICS Power Module PM240-2

Article No. : **6SL3210-1PE34-8AL0**



Figure similar

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

Item no. :
Consignment no. :
Project :

Rated data

Input		
Number of phases	3 AC	
Line voltage	380 ... 480 V ±10 %	
Line frequency	47 ... 63 Hz	
Rated current (LO)	470.00 A	
Rated current (HO)	400.00 A	
Output		
Number of phases	3 AC	
Rated voltage	**400V IEC**	**480V NEC [1)]**
Rated power (LO)	250.00 kW	400.00 hp
Rated power (HO)	200.00 kW	300.00 hp
Rated current (LO)	477.00 A	
Rated current (HO)	370.00 A	
Max. output current	740.00 A	
Pulse frequency	2 kHz	
Output frequency for vector control	0 ... 200 Hz	
Output frequency for V/f control	0 ... 550 Hz	
Overload capability		
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 × 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		

General tech. specifications

Power factor λ	0.90
Offset factor cos φ	0.98
Efficiency η	0.98
Sound pressure level (1m)	75 dB
Power loss	6.17 kW
Filter class (integrated)	Class A

Ambient conditions

Cooling	Internal air cooling
Cooling air requirement	0.210 m³/s (7.416 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	-25 ... 55 °C (-13 ... 131 °F)
Storage	-25 ... 55 °C (-13 ... 131 °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 mm² (AWG 2 ... AWG -5)
Motor end	
Version	M10 bolt
Conductor cross-section	35.00 ... 2 x 185.00 mm² (AWG 2 ... AWG -5)
DC link (for braking resistor)	
Version	Screw-type terminals
Conductor cross-section	25.00 ... 70.00 mm² (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	FSG
Net weight	119.40 kg (263.23 lb)
Dimensions	
Width	305 mm (12.01 in)
Height	1,000 mm (39.37 in)
Depth	357 mm (14.06 in)

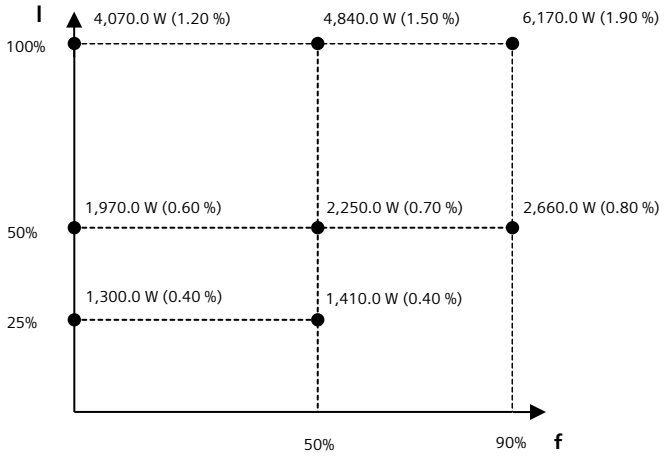
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Standards	
Compliance with standards	UL, cUL, CE, C-Tick (RCM), EAC, SEMI F47
CE marking	Low-voltage directive 2006/95/EC

Converter losses to IEC61800-9-2*	
Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	45.70 %



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