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Data sheet for SINAMICS Power Module PM240



Figure similar

Article No. : 6SL3224-0BE24-0UA0

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 with line reactor	10.40 A	
Rated current without line reactor	13.40 A	
Output		
Number of phases	3 AC	
Rated voltage	**400V IEC**	**480V NEC [1)]**
Rated power (LO)	4.00 kW	5.00 hp
Rated power (HO)	4.00 kW	5.00 hp
Rated current (LO)	10.20 A	
Rated current (HO)	10.20 A	
Max. output current	20.40 A	
Pulse frequency	4 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	0.85
Offset factor cos φ	0.95
Efficiency η	0.95
Sound pressure level (1m)	50 dB
Power loss	0.18 kW
Filter class (integrated)	-

Ambient conditions

Cooling	Internal air cooling
Cooling air requirement	0.024 m³/s (0.848 ft³/s)
Installation altitude	1,000 m (3,280.84 ft)
Ambient temperature	
Operation LO	0 ... 40 °C (32 ... 104 °F)
Operation HO	0 ... 50 °C (32 ... 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	screw-type terminal
Conductor cross-section	1.00 ... 6.00 mm² (AWG 18 ... AWG 10)
Motor end	
Version	Screw-type terminals
Conductor cross-section	1.00 ... 6.00 mm² (AWG 18 ... AWG 10)
DC link (for braking resistor)	
Version	Screw-type terminals
Conductor cross-section	1.00 ... 6.00 mm² (AWG 18 ... AWG 10)
PE connection	On housing with M5 screw
Max. motor cable length	
Shielded	50 m (164.04 ft)
Unshielded	100 m (328.08 ft)

Mechanical data

Degree of protection	IP20 / UL open type
Frame size	FSB
Net weight	4.00 kg (8.82 lb)
Dimensions	
Width	153 mm (6.02 in)
Height	270 mm (10.63 in)
Depth	165 mm (6.50 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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[1] The output current and HP ratings are valid for the voltage range 440V-480V