

Data sheet for SINAMICS Power module PM240

Article No. : 6SL3224-0BE37-5UA0

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

Item no. :
Consignment no. :
Project :



Figure similar

Rated data

Input

Number of phases	3 AC
Line voltage	380 ... 480 V $\pm 10\%$
Line frequency	47 ... 63 Hz
Rated current with line reactor	186.00 A
Rated current without line reactor	204.00 A

Output

Number of phases	3 AC	
Rated voltage	400V IEC	480V NEC ¹⁾
Rated power (LO)	90.00 kW	125.00 hp
Rated power (HO)	75.00 kW	100.00 hp
Rated current (LO)	178.00 A	
Rated current (HO)	145.00 A	
Max. output current	290.00 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 \times 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)
1.36 \times output current rating (i.e., 136 % overload) for 57 s with a cycle time of 300 s 1.6 \times output current rating (i.e., 160 % overload) for 3 s with a cycle time of 300 s

General tech. specifications

Power factor λ	0.85
Offset factor $\cos \varphi$	0.95
Efficiency η	0.97
Sound pressure level (1m)	65 dB
Power loss	2.31 kW
Filter class (integrated)	-

Ambient conditions

Cooling	Internal air cooling
Cooling air requirement	0.150 m ³ /s (5.297 ft ³ /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
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Connections

Line side

Version	M8 bolt
Conductor cross-section	25.00 ... 120.00 mm ² (AWG 4 ... AWG -3)

Motor end

Version	M8 bolt
Conductor cross-section	25.00 ... 120.00 mm ² (AWG 4 ... AWG -3)

DC link (for braking resistor)

Version	M8 bolt
Conductor cross-section	25.00 ... 120.00 mm ² (AWG 4 ... AWG -3)
PE connection	On housing with M8 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	FSF
Net weight	36.00 kg (79.37 lb)
Dimensions	
Width	350 mm (13.78 in)
Height	634 mm (24.96 in)
Depth	316 mm (12.44 in)

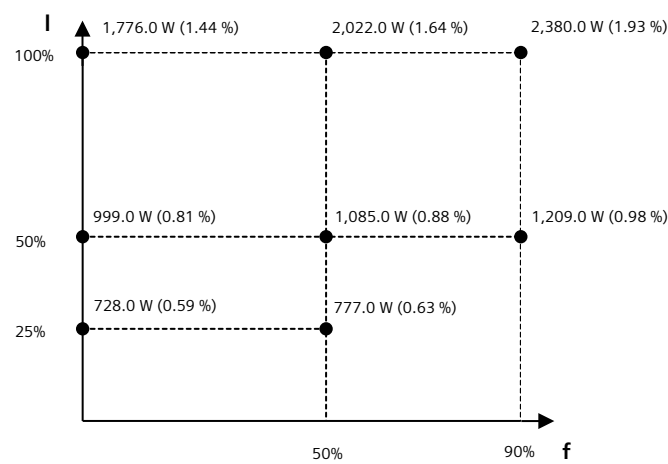
Standards

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%)	58.58 %



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