

## Data sheet for SINAMICS Power module PM240

Article No. : 6SL3224-0BE22-2UA0

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	6.10 A
Rated current without line reactor	7.60 A

#### Output

Number of phases	3 AC	
<b>Rated voltage</b>	<b>400V IEC</b>	<b>480V NEC <sup>1)</sup></b>
Rated power (LO)	2.20 kW	3.00 hp
Rated power (HO)	2.20 kW	3.00 hp
Rated current (LO)	5.90 A	
Rated current (HO)	5.90 A	
Max. output current	11.80 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)

1.5  $\times$  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 $\lambda$	0.85
Offset factor $\cos \varphi$	0.95
Efficiency $\eta$	0.97
Sound pressure level (1m)	50 dB
Power loss	0.14 kW
Filter class (integrated)	-

### Ambient conditions

Cooling	Internal air cooling
Cooling air requirement	0.024 m <sup>3</sup> /s (0.848 ft <sup>3</sup> /s)
Installation altitude	1,000 m (3,280.84 ft)
<b>Ambient temperature</b>	
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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### Mechanical data

Degree of protection	IP20 / UL open type
Size	FSB
Net weight	4.00 kg (8.82 lb)
<b>Dimensions</b>	
Width	153 mm (6.02 in)
Height	270 mm (10.63 in)
Depth	165 mm (6.50 in)

### Connections

#### Line side

Version	screw-type terminal
Conductor cross-section	1.00 ... 6.00 mm <sup>2</sup> (AWG 18 ... AWG 10)

#### Motor end

Version	Screw-type terminals
Conductor cross-section	1.00 ... 6.00 mm <sup>2</sup> (AWG 18 ... AWG 10)

#### DC link (for braking resistor)

Version	Screw-type terminals
Conductor cross-section	1.00 ... 6.00 mm <sup>2</sup> (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)

### Standards

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

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

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