

## Data sheet for SINAMICS Power module PM240P-2

Article No. : 6SL3210-1RH25-2UL0



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	500 ... 690 V $\pm$ 10 %
Line frequency	47 ... 63 Hz
Rated current (LO)	50.00 A
Rated current (HO)	44.00 A
Output	
Number of phases	3 AC
<b>Rated voltage</b>	<b>690V IEC</b> <b>600V NEC <sup>1)</sup></b>
Rated power (LO)	45.00 kW      50.00 hp
Rated power (HO)	37.00 kW      40.00 hp
Rated current (LO)	52.00 A
Rated current (HO)	42.00 A
Max. output current	71.00 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  
1.35 x rated output current (i.e. 135 % overload) for 3 s with a cycle time of 300 s

#### High Overload (HO)

1.5 x output current rating (i.e., 150 % overload) for 60 s with a cycle time of 300 s

### General tech. specifications

Power factor $\lambda$	0.90
Offset factor $\cos \varphi$	0.99
Efficiency $\eta$	0.98
Sound pressure level (1m)	71 dB
Power loss	1.08 kW
Filter class (integrated)	-

### Ambient conditions

Cooling	Internal air cooling
Cooling air requirement	0.083 m <sup>3</sup> /s (2.931 ft <sup>3</sup> /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	-40 ... 70 °C (-40 ... 158 °F)
Storage	-40 ... 70 °C (-40 ... 158 °F)
Relative humidity	
Max. operation	95 % RH, condensation not permitted

### Connections

#### Line side

Version	screw-type terminal
Conductor cross-section	25.00 ... 70.00 mm <sup>2</sup> (AWG 4 ... AWG -1)

#### Motor end

Version	Screw-type terminals
Conductor cross-section	25.00 ... 70.00 mm <sup>2</sup> (AWG 4 ... AWG -1)

#### Max. motor cable length

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

### Mechanical data

Degree of protection	IP20 / UL open type
Frame size	F5E
Net weight	26.00 kg (57.32 lb)
Dimensions	
Width	275 mm (10.83 in)
Height	551 mm (21.69 in)
Depth	237 mm (9.33 in)

### Standards

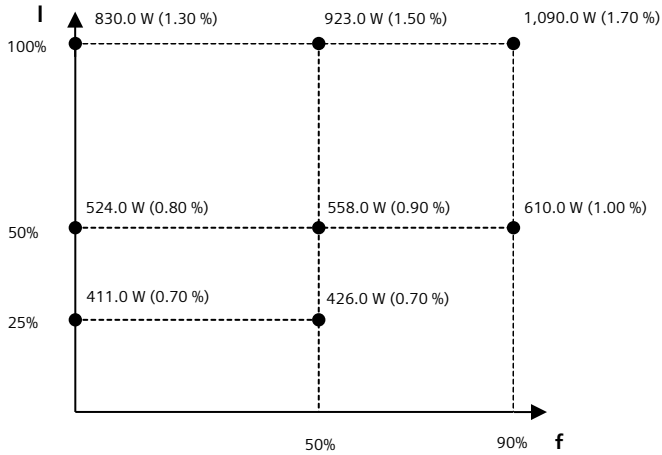
Compliance with standards	UL, cUL, CE, SEMI F47
CE marking	Low-voltage directive 2006/95/EC

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### Converter losses to IEC61800-9-2\*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	36.90 %



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

<sup>1)</sup>The output current and HP ratings are valid for the voltage range 550V-600V