

## Data sheet for SINAMICS Power module PM230

Article No. : 6SL3223-0DE22-2BG1



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)	6.10 A
Rated current (HO)	4.20 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)	1.50 kW      2.00 hp
Rated current (LO)	5.90 A
Rated current (HO)	4.10 A
Max. output current	8.90 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 × 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	0.95
Efficiency η	0.96
Sound pressure level (1m)	62 dB
Power loss	0.10 kW
Filter class (integrated)	Class B

### Ambient conditions

Cooling	Internal air cooling
Cooling air requirement	0.007 m <sup>3</sup> /s (0.247 ft <sup>3</sup> /s)
Installation altitude	1,000 m (3,280.84 ft)
<b>Ambient temperature</b>	
Operation LO	-10 ... 40 °C (14 ... 104 °F)
Operation HO	-10 ... 50 °C (14 ... 122 °F)
Transport	-25 ... 55 °C (-13 ... 131 °F)
Storage	-25 ... 55 °C (-13 ... 131 °F)
<b>Relative humidity</b>	
Max. operation	95 % RH, condensation not permitted

### Connections

#### Line side

Version	Plug-in screw terminals
Conductor cross-section	1.00 ... 2.50 mm <sup>2</sup> (AWG 18 ... AWG 14)

#### Motor end

Version	Plug-in screw terminals
Conductor cross-section	1.00 ... 2.50 mm <sup>2</sup> (AWG 18 ... AWG 14)

#### Max. motor cable length

Shielded	50 m (164.04 ft)
Unshielded	100 m (328.08 ft)

### Mechanical data

Degree of protection	IP55 / UL type 12
Frame size	FSA
Net weight	4.30 kg (9.48 lb)
<b>Dimensions</b>	
Width	154 mm (6.06 in)
Height	460 mm (18.11 in)
Depth	249 mm (9.80 in)

### Standards

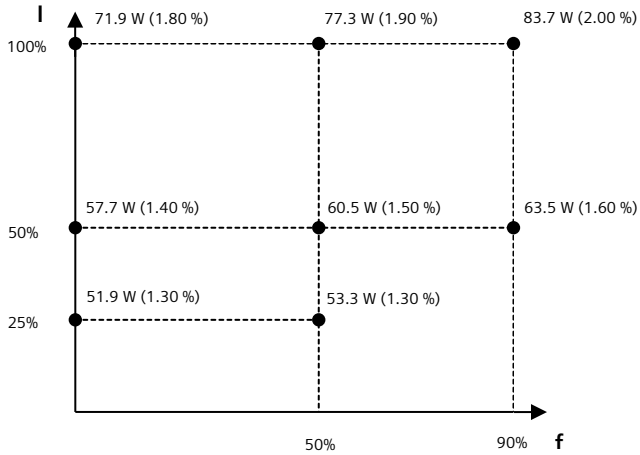
Compliance with standards	UL, CE, C-Tick (RCM)
CE marking	Low-voltage directive 2006/95/EC

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

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	30.50 %



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 440V-480V