

## Data sheet for SINAMICS Power module PM230

Article No. : 6SL3223-0DE33-0BA0



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 $\pm$ 10 %
Line frequency	47 ... 63 Hz
Rated current (LO)	56.00 A
Rated current (HO)	42.00 A
Output	
Number of phases	3 AC
<b>Rated voltage</b>	<b>400V IEC      480V NEC <sup>1)</sup></b>
Rated power (LO)	30.00 kW      40.00 hp
Rated power (HO)	22.00 kW      30.00 hp
Rated current (LO)	60.00 A
Rated current (HO)	45.00 A
Max. output current	90.00 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 x rated output current (i.e. 110 % overload) for 57 s with a cycle time of 300 s  
1.5 x rated output current (i.e. 150 % 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 57 s with a cycle time of 300 s  
2 x output current rating (i.e., 200 % overload) for 3 s with a cycle time of 300 s

### General tech. specifications

Power factor $\lambda$	0.90
Offset factor $\cos \varphi$	0.95
Efficiency $\eta$	0.97
Sound pressure level (1m)	56 dB
Power loss	0.68 kW
Filter class (integrated)	Class B

### Ambient conditions

Cooling	Internal air cooling
Cooling air requirement	0.039 m <sup>3</sup> /s (1.377 ft <sup>3</sup> /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	M6 bolt
Conductor cross-section	16.00 ... 35.00 mm <sup>2</sup> (AWG 6 ... AWG 2)

#### Motor end

Version	M6 bolt
Conductor cross-section	16.00 ... 35.00 mm <sup>2</sup> (AWG 6 ... AWG 2)

#### Max. motor cable length

Shielded	25 m (82.02 ft)
Unshielded	100 m (328.08 ft)

### Mechanical data

Degree of protection	IP55 / UL type 12
Frame size	FSD
Net weight	31.00 kg (68.34 lb)
Dimensions	
Width	320 mm (12.60 in)
Height	640 mm (25.20 in)
Depth	329 mm (12.95 in)

### Standards

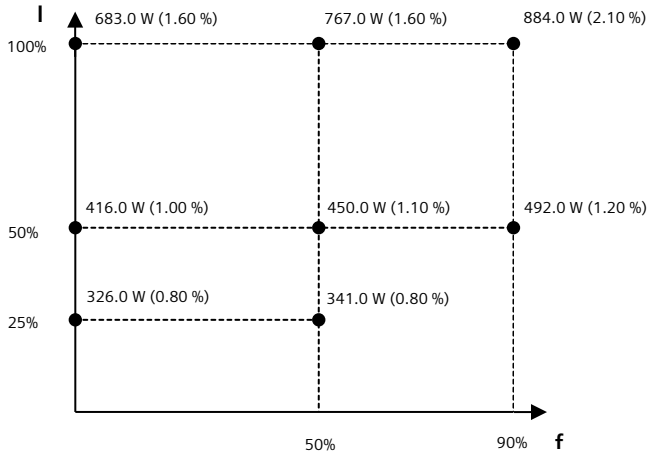
Compliance with standards	CE, C-Tick (RCM)
CE marking	Low-voltage directive 2006/95/EC

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

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	44.40 %



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