

## Data sheet for SINAMICS Power module PM330

Article No. : 6SL3310-1PE33-0AA0



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)	307.00 A
Rated current (HO)	254.00 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)	160.00 kW	200.00 hp
Rated power (HO)	132.00 kW	150.00 hp
Rated current (LO)	290.00 A	
Rated current (HO)	240.00 A	
Max. output current	392.00 A	
Pulse frequency	2 kHz	
Output frequency for vector control	0 ... 100 Hz	
Output frequency for V/f control	0 ... 100 Hz	

#### Overload capability

##### Low Overload (LO)

1.35  $\times$  base load current IL (i.e., 135 % overload) for 3 s or 1.1  $\times$  base load current IL (i.e., 110 % overload) for 60 s in a 300 s cycle time

##### High Overload (HO)

1.5  $\times$  base load current IH (i.e., 150 % overload) for 60 s in a 300 s cycle time

### General tech. specifications

Power factor $\lambda$	0.93
Offset factor $\cos \varphi$	0.96
Efficiency $\eta$	0.98
Sound pressure level (1m)	71 dB
Power loss	3.23 kW
Filter class (integrated)	-

### Ambient conditions

Cooling	Internal air cooling
Cooling air requirement	0.210 m <sup>3</sup> /s (7.416 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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### Connections

#### Line side

Version	M12 screw
Conductor cross-section	120.00 ... 2 x 240.00 mm <sup>2</sup> (AWG -3 ... MCM 2 x 500)

#### Motor end

Version	M12 screw
Conductor cross-section	95.00 ... 2 x 240.00 mm <sup>2</sup> (AWG -2 ... MCM 2 x 500)

#### DC link (for braking resistor)

Version	M12 screw
Conductor cross-section	120.00 ... 2 x 240.00 mm <sup>2</sup> (AWG -3 ... MCM 2 x 500)
PE connection	M12 screw

#### Max. motor cable length

Shielded	100 m (328.08 ft)
Unshielded	200 m (656.17 ft)

### Mechanical data

Degree of protection	IP20 / UL open type
Frame size	GX
Net weight	101.00 kg (222.67 lb)
<b>Dimensions</b>	
Width	452 mm (17.80 in)
Height	1,447 mm (56.97 in)
Depth	327 mm (12.87 in)

### Standards

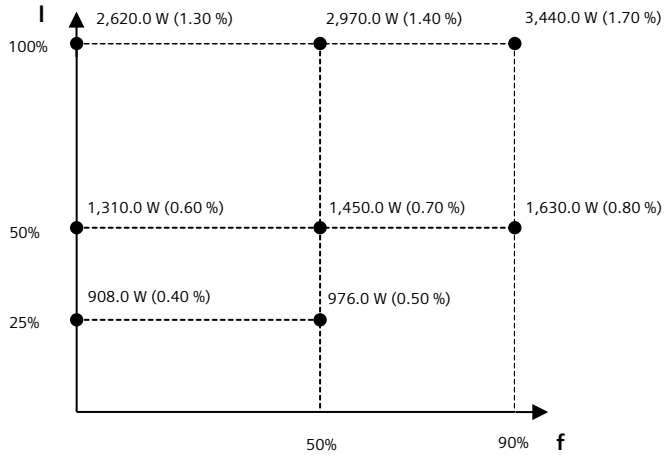
Compliance with standards	UL, cUL, CE, C-Tick (RCM), kc, GOST-R (EAC)
CE marking	Low-voltage directive 2006/95/EC

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

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	40.60 %



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

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