

Data sheet for SINAMICS Power module PM330

Article No. : 6SL3310-1PE34-6AA0



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)	459.00 A
Rated current (HO)	375.00 A

Output

Number of phases	3 AC	
Rated voltage	400V IEC	480V NEC ¹⁾
Rated power (LO)	250.00 kW	300.00 hp
Rated power (HO)	200.00 kW	200.00 hp
Rated current (LO)	450.00 A	
Rated current (HO)	368.00 A	
Max. output current	608.00 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 λ	0.93
Offset factor $\cos \varphi$	0.96
Efficiency η	0.98
Sound pressure level (1m)	71 dB
Power loss	4.40 kW
Filter class (integrated)	-

Ambient conditions

Cooling	Internal air cooling
Cooling air requirement	0.210 m ³ /s (7.416 ft ³ /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
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Connections

Line side

Version	M12 screw
Conductor cross-section	185.00 ... 2 x 240.00 mm ² (AWG -5 ... MCM 2 x 500)

Motor end

Version	M12 screw
Conductor cross-section	150.00 ... 2 x 240.00 mm ² (AWG -4 ... MCM 2 x 500)

DC link (for braking resistor)

Version	M12 screw
Conductor cross-section	150.00 ... 2 x 240.00 mm ² (AWG -4 ... 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	107.00 kg (235.89 lb)
Dimensions	
Width	452 mm (17.80 in)
Height	1,447 mm (56.97 in)
Depth	327 mm (12.87 in)

Standards

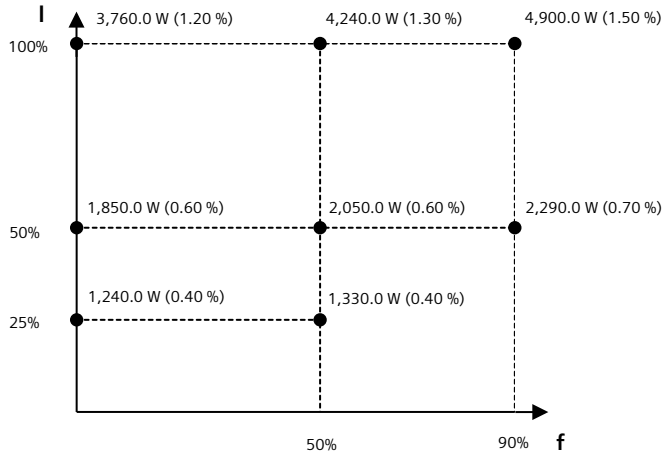
Compliance with standards	UL, cUL, CE, C-Tick (RCM), kc, GOST-R (EAC)
CE marking	Low-voltage directive 2006/95/EC

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Converter losses to IEC61800-9-2*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	37.60 %



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

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