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Data sheet for SINAMICS Power Module PM330

Article No. : **6SL3310-1PE38-4AA0**



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)	850.00 A	
Rated current (HO)	696.00 A	
Output		
Number of phases	3 AC	
Rated voltage	**400V IEC**	**480V NEC [1)]**
Rated power (LO)	450.00 kW	500.00 hp
Rated power (HO)	355.00 kW	450.00 hp
Rated current (LO)	820.00 A	
Rated current (HO)	672.00 A	
Max. output current	1,107.00 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 × base load current IL (i.e., 135 % overload) for 3 s or 1.1 × base load current IL (i.e., 110 % overload) for 60 s in a 300 s cycle time

High Overload (HO)

1.5 × 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 φ	0.96
Efficiency η	0.98
Sound pressure level (1m)	74 dB
Power loss	9.58 kW
Filter class (integrated)	-

Ambient conditions

Cooling	Internal air cooling
Cooling air requirement	0.450 m³/s (15.892 ft³/s)
Installation altitude	1,000 m (3,280.84 ft)
Ambient temperature	
Operation LO	0 ... 40 °C (32 ... 104 °F)
Operation HO	0 ... 40 °C (32 ... 104 °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	M12 screw
Conductor cross-section	185.00 ... 6 x 240.00 mm² (AWG -5 ... MCM 6 x 500)
Motor end	
Version	M12 screw
Conductor cross-section	150.00 ... 4 x 240.00 mm² (AWG -4 ... MCM 4 x 500)
DC link (for braking resistor)	
Version	M12 screw
Conductor cross-section	120.00 ... 4 x 240.00 mm² (AWG -3 ... MCM 4 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	JX
Net weight	235.00 kg (518.09 lb)
Dimensions	
Width	801 mm (31.54 in)
Height	1,621 mm (63.82 in)
Depth	393 mm (15.47 in)

Standards

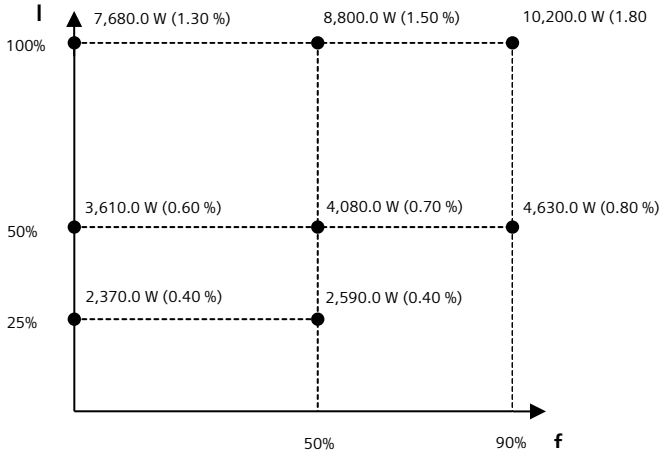
Compliance with standards	UL, cUL, CE, C-Tick (RCM)
CE marking	Low-voltage directive 2006/95/EC

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Converter losses to IEC61800-9-2*	
Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	43.10 %



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

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