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Data sheet for SINAMICS Power Module PM330

Article No. : 6SL3310-1PG35-2AA0



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	500 ... 690 V ±10 %	
Line frequency	47 ... 63 Hz	
Rated current (LO)	489.00 A	
Rated current (HO)	410.00 A	
Output		
Number of phases	3 AC	
Rated voltage	**690V IEC**	**600V NEC [1)]**
Rated power (LO)	450.00 kW	450.00 hp
Rated power (HO)	400.00 kW	450.00 hp
Rated current (LO)	470.00 A	
Rated current (HO)	394.00 A	
Max. output current	682.00 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	7.72 kW
Filter class (integrated)	-

Ambient conditions	
Cooling	Internal air cooling
Cooling air requirement	0.362 m³/s (12.784 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	120.00 ... 4 x 240.00 mm² (AWG -3 ... MCM 4 x 500)
Motor end	
Version	M12 screw
Conductor cross-section	95.00 ... 4 x 240.00 mm² (AWG -2 ... MCM 4 x 500)
DC link (for braking resistor)	
Version	M12 screw
Conductor cross-section	150.00 ... 4 x 240.00 mm² (AWG -4 ... 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	HX
Net weight	162.00 kg (357.15 lb)
Dimensions	
Width	548 mm (21.57 in)
Height	1,696 mm (66.77 in)
Depth	393 mm (15.47 in)

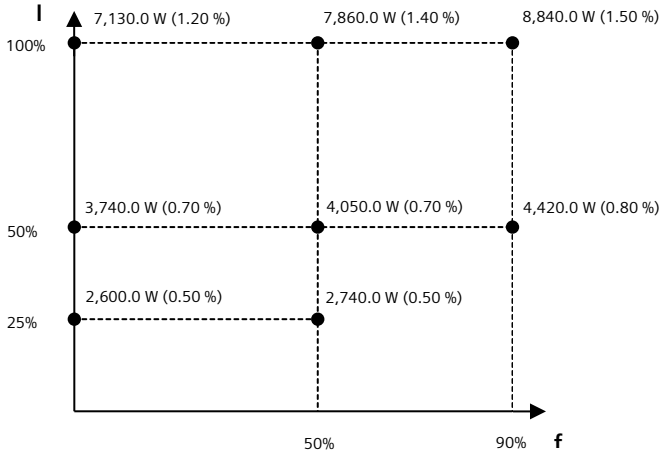
Standards	
Compliance with standards	UL, cUL, CE, C-Tick (RCM)
CE marking	Low-voltage directive 2006/95/EC

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Converter losses to IEC61800-9-2*	
Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	37.80 %



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 550V-600V