

Data sheet for SINAMICS Power module PM230

Article No. : 6SL3210-1NE24-5AL0



Figure similar

Client order no. :
Order no. :
Offer no. :
Remarks :

Item no. :
Consignment no. :
Project :

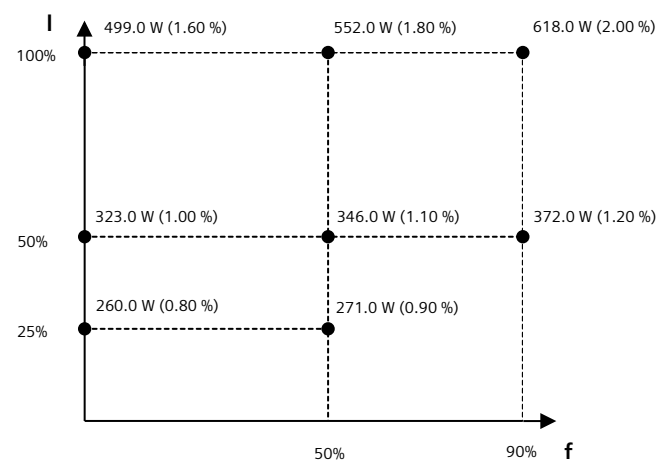
Rated data			
Input			
Number of phases	3 AC		
Line voltage	380 ... 480 V ±10 %		
Line frequency	47 ... 63 Hz		
Rated current (LO)	42.00 A		
Rated current (HO)	36.00 A		
Output			
Number of phases	3 AC		
Rated voltage	400V IEC	480V NEC ¹⁾	
Rated power (LO)	22.00 kW	30.00 hp	
Rated power (HO)	18.50 kW	25.00 hp	
Rated current (LO)	45.00 A		
Rated current (HO)	38.00 A		
Max. output current	57.00 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 × rated output current (i.e. 110 % overload) for 57 s with a cycle time of 300 s 1.5 × rated output current (i.e. 150 % overload) for 3 s with a cycle time of 300 s			
High Overload (HO)			
1.5 × output current rating (i.e., 150 % overload) for 57 s with a cycle time of 300 s 2 × output current rating (i.e., 200 % overload) for 3 s with a cycle time of 300 s			
General tech. specifications			
Power factor λ	0.90		
Offset factor cos φ	0.95		
Efficiency η	0.98		
Sound pressure level (1m)	60 dB		
Power loss	0.52 kW		
Filter class (integrated)	Class A		

Ambient conditions	
Cooling	Internal air cooling
Cooling air requirement	0.080 m³/s (2.825 ft³/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 mm² (AWG 6 ... AWG 2)
Motor end	
Version	M6 bolt
Conductor cross-section	16.00 ... 35.00 mm² (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	IP20 / UL open type
Frame size	FSD
Net weight	14.00 kg (30.86 lb)
Dimensions	
Width	275 mm (10.83 in)
Height	512 mm (20.16 in)
Depth	204 mm (8.03 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%)	40.70 %



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