

Data sheet for SINAMICS Power module PM230

6SL3211-1NE23-8UL1 Article No.:

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

Item no. : $Consignment\ no.:$ Project :

Figure similar

Error:

No CAD-Data available for this configuration.

natet	Rated data		
nput			
Number of phases	3 AC		
Line voltage	380 480 V ±1	10 %	
Line frequency	47 63 Hz		
Rated current (LO)	39.20 A		
Rated current (HO)	33.00 A		
utput			
Number of phases	3 AC		
Rated voltage	400V IEC	480V NEC 1)	
Rated power (LO)	18.50 kW	25.00 hp	
Rated power (HO)	15.00 kW	20.00 hp	
Rated current (LO)	38.00 A		
Rated current (HO)	32.00 A		
Max. output current	64.00 A		
Pulse frequency	4 kHz		
Output frequency for vector control	0 200 Hz		
Output frequency for V/f control	0 550 Hz		

of 300 s

High Overload (HO)

 $1.5\times$ output current rating (i.e., 150 % overload) for 57 s with a cycle time of 300 s 2 \times 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 $\cos\phi$	0.95	
Efficiency η	0.98	
Sound pressure level (1m)	65 dB	
Power loss	0.45 kW	
Filter class (integrated)	-	

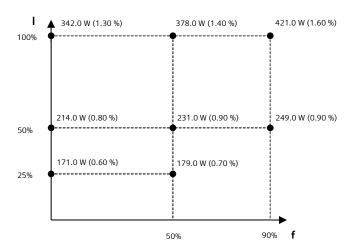
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Ambient conditions			
Cooling	Internal air cooling		
Cooling air requirement	0.019 m³/s (0.671 ft³/s)		
Installation altitude	1,000 m (3,280.84 ft)		
Ambient temperature			
Operation LO	-10 40 °C (14 104 °F)		
Operation HO	-10 50 °C (14 122 °F)		
Transport	-40 70 °C (-40 158 °F)		
Storage	-40 70 °C (-40 158 °F)		
Relative humidity			
Max. operation	95 % RH, condensation not permitted		
Connections			
Line side			
Version	Plug-in screw terminals		
Conductor cross-section	6.00 16.00 mm ² (AWG 10 AWG 6)		
Motor end			
Version	Plug-in screw terminals		
Conductor cross-section	10.00 16.00 mm² (AWG 8 AWG 6)		
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	FSC		
Net weight	5.40 kg (11.90 lb)		
Dimensions			
Width	200 mm (7.87 in)		
Height	411 mm (16.18 in)		
Depth	171 mm (6.73 in)		
:	Standards		
Compliance with standards	UL, CE, C-Tick (RCM), KCC		
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%)	32.20 %	



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