## **SIEMENS**

## **Data sheet for SINAMICS Power module PM230**

Article No.: 6SL3223-0DE25-5AG1

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





Figure simila

Rated data		
Input		
Number of phases	3 AC	
Line voltage	380 480 V ±10	%
Line frequency	47 63 Hz	
Rated current (LO)	14.00 A	
Rated current (HO)	11.00 A	
Output		
Number of phases	3 AC	
Rated voltage	400V IEC	480V NEC 1)
Rated power (LO)	5.50 kW	7.50 hp
Rated power (HO)	4.00 kW	5.00 hp
Rated current (LO)	13.20 A	
Rated current (HO)	10.20 A	
Max. output current	20.40 A	
Pulse frequency	4 kHz	
Output frequency for vector control	0 200 Hz	
Output frequency for V/f control	0 550 Hz	
Overload canability		

## Overload capability

Low Overload (LO)

1.1 x rated output current (i.e. 110 % overload) for 57 s with a cycle time of 300 s 1.5 x rated output current (i.e. 150 % overload) for 3 s with a cycle time 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	0.97	
Sound pressure level (1m)	63 dB	
Power loss	0.18 kW	
Filter class (integrated)	Class A	

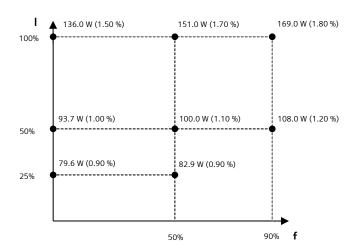
	Ambient conditions		
Cooling	Internal air cooling		
Cooling air requirement	0.009 m <sup>3</sup> /s (0.318 ft <sup>3</sup> /s)		
Installation altitude	1,000 m (3,280.84 ft)		
Ambient temperature			
Operation LO	-10 40 °C (14 104 °F)		
Operation HO	-10 50 °C (14 122 °F)		
Transport	-25 55 °C (-13 131 °F)		
Storage	-25 55 °C (-13 131 °F)		
Relative humidity			
Max. operation	95 % RH, condensation not permitted		
Connections			
Line side			
Version	Plug-in screw terminals		
Conductor cross-section	4.00 6.00 mm <sup>2</sup> (AWG 12 AWG 10)		
Motor end			
Version	Plug-in screw terminals		
Conductor cross-section	4.00 6.00 mm <sup>2</sup> (AWG 12 AWG 10)		
Max. motor cable length			
Shielded	25 m (82.02 ft)		
Unshielded	100 m (328.08 ft)		
	Mechanical data		
Degree of protection	IP55 / UL type 12		
Frame size	FSB		
Net weight	6.30 kg (13.89 lb)		
Dimensions			
Width	180 mm (7.09 in)		
Height	540 mm (21.26 in)		
Depth	249 mm (9.80 in)		
	Standards		
Compliance with standards	UL, 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%)	31.60 %	



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.

\*calculated values

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