## **SIEMENS**

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

6SL3210-1NE31-5UL0 Article No.:

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





Rated data		
Input		
Number of phases	3 AC	
Line voltage	380 480 V ±10	%
Line frequency	47 63 Hz	
Rated current (LO)	135.00 A	
Rated current (HO)	102.00 A	
Output		
Number of phases	3 AC	
Rated voltage	400V IEC	480V NEC 1)
Rated power (LO)	75.00 kW	100.00 hp
Rated power (HO)	55.00 kW	75.00 hp
Rated current (LO)	145.00 A	
Rated current (HO)	110.00 A	
Max. output current	165.00 A	
Pulse frequency	4 kHz	
Output frequency for vector control	0 200 Hz	
Output frequency for V/f control	0 550 Hz	
Overload capability		

Overload	capability
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Low Overload (LO)

1.1 x rated output current (i.e. 110 % overload) for 57 s with a cycle time of 300 s  $1.5 \times$  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)	60 dB	
Power loss	2.00 kW	
Filter class (integrated)	-	

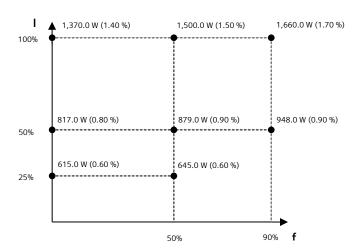
Ambi	Ambient conditions	
Cooling	Internal air cooling	
Cooling air requirement	0.150 m³/s (5.297 ft³/s)	
Installation altitude	1,000 m (3,280.84 ft)	
Ambient temperature		
Operation LO	0 40 °C (32 104 °F)	
Operation HO	0 50 °C (32 122 °F)	
Transport	-25 55 °C (-13 131 °F)	
Storage	-25 55 °C (-13 131 °F)	
Relative humidity		
Max. operation	95 % RH, condensation not permitted	
Connections		
Line side		
Version	M8 bolt	
Conductor cross-section	35.00 120.00 mm² (AWG 2 AWG -3)	
Motor end		
Version	M8 bolt	
Conductor cross-section	35.00 120.00 mm <sup>2</sup> (AWG 2 AWG -3)	
Max. motor cable length		
Shielded	25 m (82.02 ft)	
Unshielded	100 m (328.08 ft)	
Med	chanical data	
Degree of protection	IP20	
Frame size	FSF	
Net weight	34.00 kg (74.96 lb)	
Dimensions		
Width	350 mm (13.78 in)	
Height	634 mm (24.96 in)	
Depth	316 mm (12.44 in)	
Standards		
Compliance with standards	CE	
CE marking	Low-voltage directive 2006/95/EC	



## Data sheet for SINAMICS Power module PM230

Article No.: 6SL3210-1NE31-5UL0

Converter losses to IEC61800-9-2*		
Efficiency class	IE2	
Comparison with the reference converter (90% / 100%)	35.60 %	



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