

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

## **Ordering data**

6SL3210-1NE31-1AL0



Client order no.: Item no.:
Order no.: Consignment no.:
Offer no.: Project:
Remarks:

Rated data		General tec	General tech. specifications	
Input		Power factor λ	0.90	
Number of phases	3 AC	Offset factor cos φ	0.95	
Line voltage	380 480 V ±10 %	Efficiency η	0.97	
Line frequency	47 63 Hz	Sound pressure level (1m)	60 dB	
Rated current (LO)	102.00 A	Power loss	1.40 kW	
Rated current (HO)	84.00 A	Ambier	nt conditions	
Output		Cooling	Internal air cooling	
Number of phases	3 AC	Cooling air requirement	0.150 m³/s	
Rated voltage	400 V	Installation altitude	1000 m	
Rated power (LO)	55.00 kW / 75.00 hp	Ambient temperature		
Rated power (HO)	45.00 kW / 60.00 hp	Operation LO	0 40 °C (32 104 °F)	
Rated current (LO)	110.00 A	Operation HO	0 50 °C (32 122 °F)	
Rated current (HO)	90.00 A	Transport	-40 70 °C (-40 158 °F)	
Max. output current	135.00 A	Storage	-25 55 °C (-13 131 °F)	
Pulse frequency	4 kHz	Relative humidity		
Output frequency for vector control	0 200 Hz			
Output frequency for V/f control	0 550 Hz	Max. operation	95 % RH, condensation not permitted	

## Overload capability

# Low Overload (LO)

1.1 × output current rating (i.e., 110 % overload) for 57 s with a cycle time of 300 s 1.5 × output current rating (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



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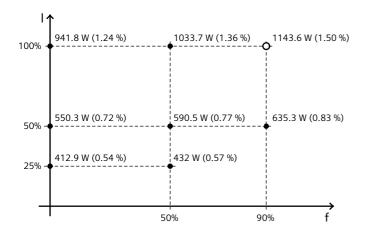
#### 6SL3210-1NE31-1AL0



Mechanical data		Co	Connections	
Degree of protection	IP20	Line side		
Size	FSF	Version	M8 bolt	
Net weight	46.00 kg	Conductor cross-section	35.00 120.00 mm²	
Width	350.0 mm	Motor end		
Height	934.0 mm	Version	M8 bolt	
Depth	316.0 mm	Conductor cross-section	35.00 120.00 mm²	

### Converter losses to EN 50598-2\*

Comparison with the reference converter (90% / -68.49 % 100%)



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 EN 50598) of the relative torque generating current (f) over the relative motor stator frequency(f). The values are valid for the basic version of the converter without options/components.

### Max. motor cable length

Shielded	25 m			
Unshielded	100 m			
Standards				
Compliance with standards	CE, C-Tick (RCM)			
CE marking	According to low-voltage directive			

<sup>\*</sup>calculated values; increased by 10% according to the standard