SIEMENS

Data sheet for SINAMICS Power Module PM230



Ordering data

6SL3210-1NE31-5AL0

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)	135.00 A
Rated current (HO)	102.00 A

Output

Number of phases	3 AC
Rated voltage	400 V
Rated power (LO)	75.00 kW
Rated power (HO)	55.00 kW
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

General tech. specifications

Power factor λ	0.90
Offset factor cos φ	0.95
Efficiency η	0.97
Sound pressure level (1m)	60 dB
Power loss	2.00 kW

Ambient conditions

Cooling	Internal air cooling
Cooling air requirement	0.150 m³/s
Installation altitude	1000 m

Ambient temperature

Operation LO	0 ... 40 °C (32 ... 104 °F)
Operation HO	0 ... 50 °C (32 ... 122 °F)
Transport	-40 ... 70 °C (-40 ... 158 °F)
Storage	-25 ... 55 °C (-13 ... 131 °F)

Relative humidity

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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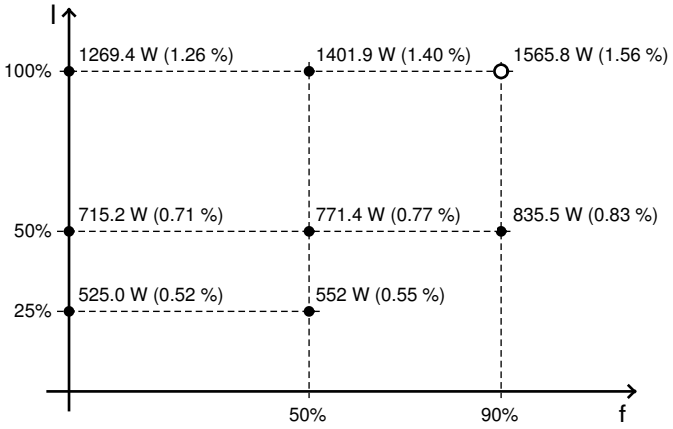
Mechanical data

Degree of protection	IP20
Size	FSF
Net weight	46.00 kg
Width	350.0 mm
Height	934.0 mm
Depth	316.0 mm

Converter losses to EN 50598-2*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-66.88 %



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 (I) over the relative motor stator frequency(f). The values are valid for the basic version of the converter without options/components.

*calculated values; increased by 10% according to the standard

Connections

Line side

Version	M8 bolt
Conductor cross-section	35.00 ... 120.00 mm²

Motor end

Version	M8 bolt
Conductor cross-section	35.00 ... 120.00 mm²

Max. motor cable length

Shielded	25 m
Unshielded	100 m

Standards

Compliance with standards	CE, C-Tick
CE marking	According to low-voltage directive 2006/95/EC