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Data sheet for SINAMICS Power Module PM230



Figure similar

MLFB-Ordering data 6SL3210-1NE21-0AG1

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)	10.50 A
Rated current (HO)	8.00 A

Output

Number of phases	3 AC
Rated voltage	400 V
Rated power (LO)	4.00 kW / 5.00 hp
Rated power (HO)	3.00 kW / 4.00 hp
Rated current (LO)	10.20 A
Rated current (HO)	7.70 A
Max. output current	15.40 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)	62 dB
Power loss	0.12 kW

Ambient conditions

Cooling	Internal air cooling
Cooling air requirement	0.009 m³/s
Installation altitude	1000 m

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 (-13 ... 131 °F)

Relative humidity

Max. operation	95 % RH, condensation not permitted

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 × rated output current (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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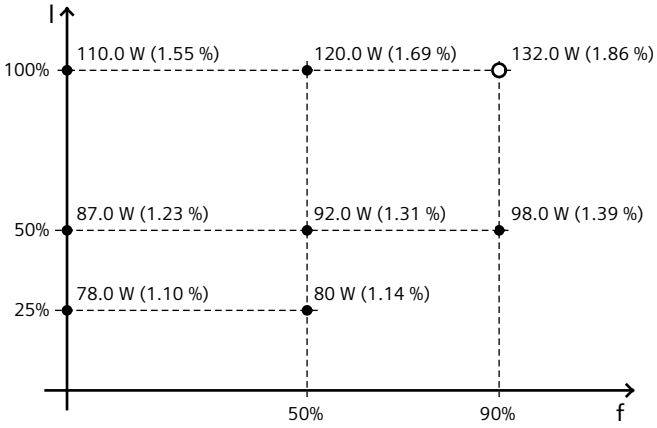
Figure similar

Mechanical data

Degree of protection	IP20
Size	FSB
Net weight	6.30 kg
Width	100.0 mm
Height	292.0 mm
Depth	165.0 mm

Converter losses to EN 50598-2*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-70.89 %



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.

*converted values

Connections

Line side

Version	Plug-in screw terminals
Conductor cross-section	1.50 ... 6.00 mm²

Motor end

Version	Plug-in screw terminals
Conductor cross-section	1.50 ... 6.00 mm²

Max. motor cable length

Shielded	25 m
Unshielded	100 m

Standards

Compliance with standards	UL, CE, C-Tick (RCM), KCC
CE marking	Low-voltage directive 2006/95/EC