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Data sheet for SINAMICS G120 Power Module PM240



Ordering data

6SL3224-0BE38-8UA0

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 with line reactor	210.00 A
Rated current without line reactor	245.00 A

Output

Number of phases	3 AC
Rated voltage	400 V
Rated power (LO)	110.00 kW
Rated power (HO)	90.00 kW
Rated current (LO)	205.00 A
Rated current (HO)	178.00 A
Max. output current	308.00 A
Pulse frequency	2 kHz
Output frequency for vector control	0 ... 200 Hz
Output frequency for V/f control	0 ... 550 Hz

General tech. specifications

Power factor λ	0.85
Offset factor cos φ	0.95
Efficiency η	0.97
Sound pressure level (1m)	65 dB
Power loss	2.43 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)

1.36 × output current rating (i.e., 136% overload) for 57 s with a cycle time of 300 s 1.6 × output current rating (i.e., 160% overload) for 3 s with a cycle time of 300 s

Technical data are subject to change! There may be discrepancies between calculated and rating plate values.

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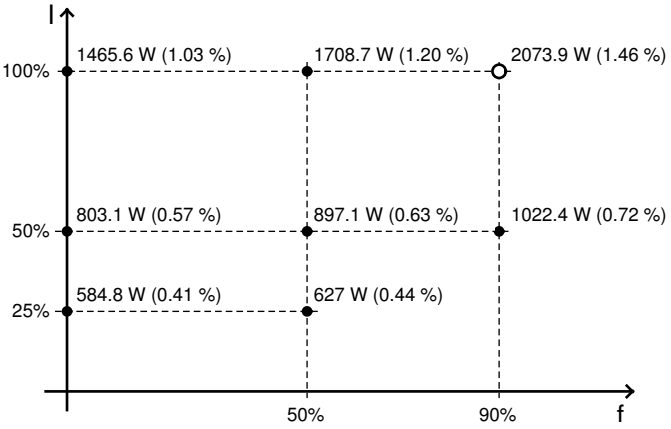
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Mechanical data

Degree of protection	IP20
Size	FSF
Net weight	39.00 kg
Width	350.0 mm
Height	634.0 mm
Depth	316.0 mm

Converter losses to EN 50598-2

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-64.73 %



The percentage values indicate the losses with reference 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.

Connections

Line side

Version	M8 bolt
Conductor cross-section	25.00 ... 120.00 mm²

Motor end

Version	M8 bolt
Conductor cross-section	25.00 ... 120.00 mm²

DC link (for braking resistor)

Conductor cross-section	25.00 ... 120.00 mm²

Max. motor cable length

Shielded	50 m
Unshielded	100 m

Standards

Compliance with standards	UL, cUL, CE, C-Tick, SEMI F47
CE marking	According to low-voltage directive 2006/95/EC