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Data sheet for SINAMICS G110D

MLFB-Ordering data

6SL3511-1PE24-0AM0



Figure similar

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

Item no. :
Consignment no. :
Project :

Rated data

Input

Number of phases	3 AC
Line voltage	380 ... 500 V ±10 %
Line frequency	47 ... 63 Hz
Rated current	9.10 A

Output

Number of phases	3 AC
Rated voltage	500 V
Rated power	4.00 kW
Rated current (IN)	10.20 A
Max. output current	20.40 A
Pulse frequency	4.000
Output frequency for V/f control	0 ... 650 Hz

Due to legal restrictions a limitation to 550 Hz is under preparation

General tech. specifications

Power factor λ	0.70 ... 0.85
Efficiency η	0.95

Ambient conditions

Cooling	demand-driven air cooling via integrated fan
Installation altitude	1000 m

Ambient temperature

Operation	-10 ... 40 °C (14 ... 104 °F)
Transport	-40 ... 70 °C (-40 ... 158 °F)
Storage	-40 ... 70 °C (-40 ... 158 °F)

Relative humidity

Max. operation	95 % at 40 °C (104 °F); RH, condensation not permitted

Overload capability

High Overload (HO)

Average max. rated output current during a cycle time of 300 s; 1.5 × rated output current (i.e. 150% overload) for 60 s with a cycle time of 300 s; 2 × rated output current (i.e. 200 % overload) for 3 s with a cycle time of 300 s

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Mechanical data

Degree of protection	IP65 / UL type 3
Frame size	FSB
Net weight	7.70 kg
Width	445.0 mm
Height	210.0 mm
Depth	165.0 mm

Inputs / outputs

Standard digital inputs

Number	4

Analog / digital inputs

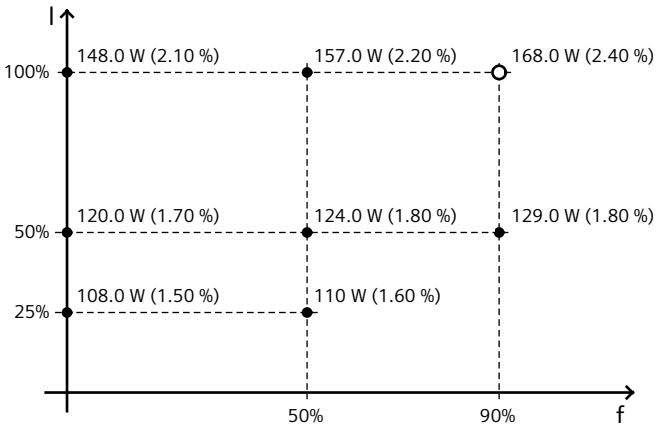
Number	1

PTC/ KTY interface

1 input, connectable sensors: PTC, KTY or Thermo-Click, connection via Power Modules

Converter losses to IEC61800-9-2*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	39.60 %



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

Connections

Line side

Version	HAN Q4/2 (connector)
Conductor cross-section	2.50 ... 6.00 mm²

Motor end

Version	HAN Q8 (socket)
Conductor cross-section	2.50 ... 4.00 mm²

Max. motor cable length

Shielded	15 m
Unshielded	30 m

Communication

Communication	AS-Interface

Closed-loop control techniques

V/f linear / square-law / parameterizable	Yes
V/f with flux current control (FCC)	Yes

Standards

Compliance with standards	UL 508C (UL list number E121068), CE, RCM
CE marking	Low-voltage directive 2006/95/EC