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Data sheet for SINAMICS G110D

MLFB-Ordering data

6SL3511-0PE24-0AM0

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 kHz
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
Size	FSB
Net weight	7.40 kg
Width	445.0 mm
Height	210.0 mm
Depth	165.0 mm

Inputs / outputs

Standard digital inputs

Number	4

Analog / digital inputs

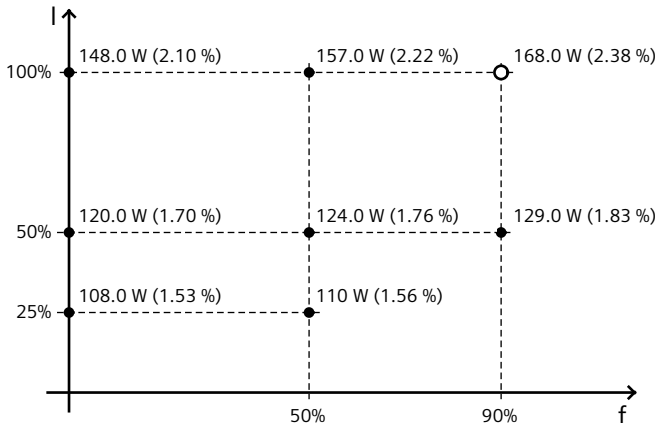
Number	1

PTC/ KTY interface

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

Converter losses to EN 50598-2*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-62.75 %



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	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	RS232

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