SIEMENS

Data sheet for SINAMICS G120D

Ordering data

6SL3525-0PE27-5AA1



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	17.70 A

Output

Number of phases	3 AC
Rated voltage	400 V
Rated power	7.50 kW
Rated current (IN)	19.00 A
Max. output current	38.00 A
Pulse frequency	4 kHz
Output frequency for vector control	0 ... 200 Hz
Output frequency for V/f control	0 ... 650 Hz

In firmware V4.7 and higher, due to legal requirements, the maximum output frequency is restricted to 550 Hz.

General tech. specifications

Power factor λ	0.95
Efficiency η	0.97
Sound pressure level (1m)	74.5 dB
Power loss	0.30 kW

Ambient conditions

Cooling	demand-driven air cooling via integrated fan
Cooling air requirement	0.025 m³/s
Installation altitude	1000 m

Ambient temperature

Operation	-10 ... 55 °C (14 ... 131 °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 maximum rated output current during a cycle time of 300 s; 1.5 x rated output current (i.e. 150% overload) for 60 s with a cycle time of 300 s; 2 x rated output current (i.e. 200% overload) for 3 s with a cycle time of 300 s

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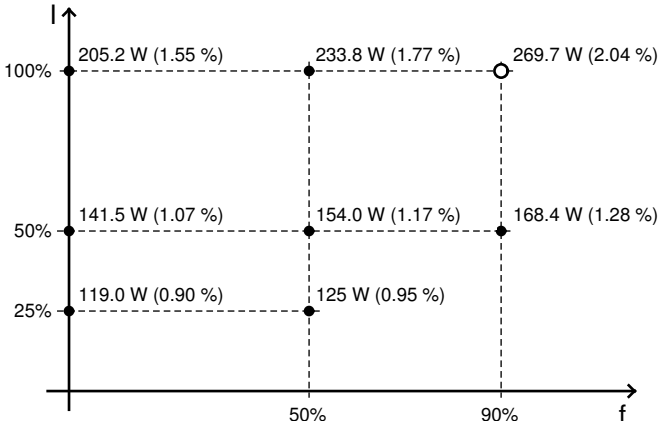
Mechanical data

Degree of protection	IP65/UL Type 3
Size	FSC
Net weight	8.50 kg
Width	445.0 mm
Height	210.0 mm
Depth	220.0 mm

Converter losses to EN 50598-2*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-65.19 %



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	4.00 ... 6.00 mm²

Motor end

Version	HAN Q8 (socket)
Conductor cross-section	4.00 mm²
PE connection	On enclosure with M5 screw
Conductor cross-section	10.00 ... 16.00 mm²

Max. motor cable length

Shielded	15 m
Unshielded	30 m

Standards

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