



Figure similar

Article No. : 6SL3525-0PE27-5AA1

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

Item no. :  
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Project :

### Rated data

#### Input

Number of phases	3 AC
Line voltage	380 ... 500 V $\pm$ 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 <sup>1)</sup>	0 ... 650 Hz

#### 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

### General tech. specifications

Power factor $\lambda$	0.95
Efficiency $\eta$	0.97
Sound pressure level (1m)	74.5 dB
Power loss	0.29 kW

### Ambient conditions

Cooling	demand-driven air cooling via integrated fan
Cooling air requirement	0.025 m <sup>3</sup> /s (0.880 ft <sup>3</sup> /s)
Installation altitude	1,000 m (3,280.84 ft)

#### 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
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### Connections

#### Line side

Version	HAN Q4/2 (connector)
Conductor cross-section	4.00 ... 6.00 mm <sup>2</sup> (AWG 12 ... AWG 10)

#### Motor end

Version	HAN Q8 (socket)
Conductor cross-section	4.00 mm <sup>2</sup> (AWG 12)
PE connection	On housing with M5 screw
Conductor cross-section	10.00 ... 16.00 mm <sup>2</sup> (AWG 8 ... AWG 6)

#### Max. motor cable length

Shielded	15 m (49.21 ft)
Unshielded	30 m (98.43 ft)

### Mechanical data

Degree of protection	IP65 / UL type 3
Frame size	F5C
Net weight	8.50 kg (18.74 lb)

#### Dimensions

Width	445.0 mm (17.52 in)
Height	210.0 mm (8.27 in)
Depth	220.0 mm (8.66 in)

### Standards

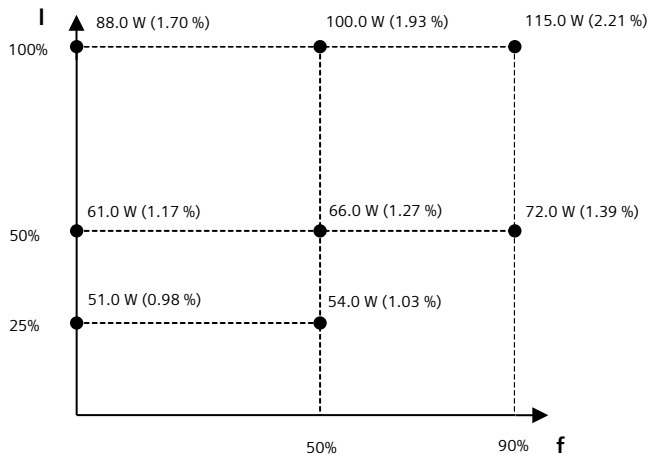
Compliance with standards	UL 508C (UL list number E121068), CE, RCM
CE marking	Low-voltage directive 2006/95/EC

## Data sheet for SINAMICS G120D

Article No. : 6SL3525-0PE27-5AA1

### Converter losses to IEC61800-9-2\*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	62.16 %



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.

\*converted values

<sup>1)</sup>In firmware V4.7 and higher, due to legal requirements, the maximum output frequency is restricted to 550 Hz.