



Figure similar

Article No. : 6SL3525-0PE23-0AA1

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 \pm 10 % |
| Line frequency | 47 ... 63 Hz |
| Rated current | 7.20 A |

Output

| | |
|--|--------------|
| Number of phases | 3 AC |
| Rated voltage | 400 V |
| Rated power | 3.00 kW |
| Rated current (IN) | 7.70 A |
| Max. output current | 15.40 A |
| Pulse frequency | 4 kHz |
| Output frequency for vector control | 0 ... 200 Hz |
| Output frequency for V/f control ¹⁾ | 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 λ | 0.95 |
| Efficiency η | 0.97 |
| Power loss | 0.10 kW |

Ambient conditions

| | |
|-------------------------|--|
| Cooling | Convection |
| Cooling air requirement | 0.009 m ³ /s (0.320 ft ³ /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 |
|----------------|--|

Connections

Line side

| | |
|-------------------------|--|
| Version | HAN Q4/2 (connector) |
| Conductor cross-section | 2.50 ... 6.00 mm ² (AWG 14 ... AWG 10) |

Motor end

| | |
|-------------------------|--|
| Version | HAN Q8 (socket) |
| Conductor cross-section | 2.50 ... 4.00 mm ² (AWG 14 ... AWG 12) |
| PE connection | On housing with M5 screw |
| Conductor cross-section | 10.00 ... 16.00 mm ² (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 | FSB |
| Net weight | 8.00 kg (17.64 lb) |
| Dimensions | |
| Width | 445.0 mm (17.52 in) |
| Height | 210.0 mm (8.27 in) |
| Depth | 180.0 mm (7.09 in) |

Standards

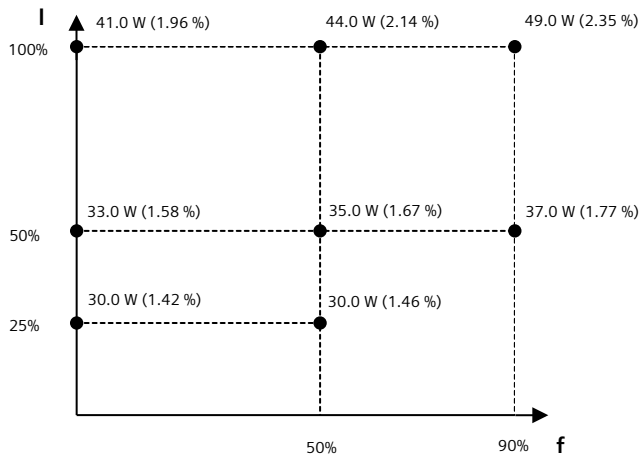
| | |
|---------------------------|---|
| Compliance with standards | UL 508C (UL list number E121068), CE, RCM |
| CE marking | Low-voltage directive 2006/95/EC |

Data sheet for SINAMICS G120D

Article No. : 6SL3525-0PE23-0AA1

Converter losses to IEC61800-9-2*

| | |
|--|---------|
| Efficiency class | IE2 |
| Comparison with the reference converter (90% / 100%) | 65.03 % |



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

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