SIEMENS

# Data sheet for SINAMICS G120D

## Ordering data

**6SL3525-0PE17-5AA1**



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** | 2.10 A |

### Output

| | |
|---|---|
| **Number of phases** | 3 AC |
| **Rated voltage** | 400 V |
| **Rated power** | 0.75 kW |
| **Rated current (IN)** | 2.20 A |
| **Max. output current** | 4.40 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 |
| **Power loss** | 0.05 kW |

## Ambient conditions

| | |
|---|---|
| **Cooling** | Convection |
| **Cooling air requirement** | 0.004 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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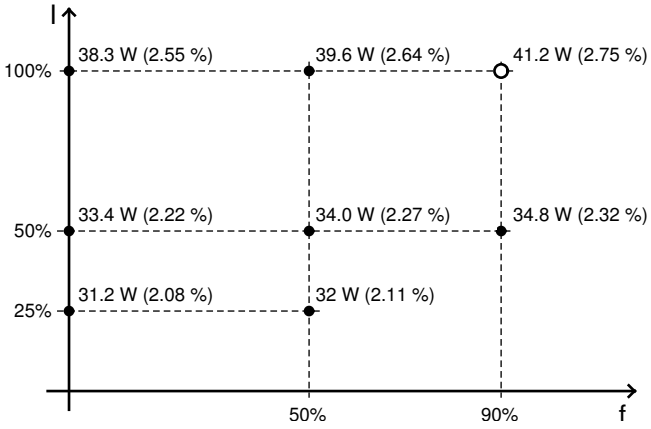
## Mechanical data

| | |
|---|---|
| **Degree of protection** | IP65/UL Type 3 |
| **Size** | FSA |
| **Net weight** | 5.70 kg |
| **Width** | 445.0 mm |
| **Height** | 210.0 mm |
| **Depth** | 110.0 mm |

## Converter losses to EN 50598-2*

| | |
|---|---|
| Efficiency class | IE2 |
| Comparison with the reference converter (90% / 100%) | -75.07 % |




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** | 1.50 ... 6.00 mm² |

### Motor end

| | |
|---|---|
| **Version** | HAN Q8 (socket) |
| **Conductor cross-section** | 1.00 ... 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 |