SIEMENS

Data sheet for SINAMICS G120C

Article No. :

6SL3210-1KE11-8UF2



Figure similar

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

| Rated data | | | |
|-------------------------------------|-----------------------|------------------------|--|
| Input | | | |
| Number of phases | 3 AC | | |
| Line voltage | 380 480 V +10 % -20 % | | |
| Line frequency | 47 63 Hz | | |
| Rated current (LO) | 2.30 A | | |
| Rated current (HO) | 1.90 A | | |
| Output | | | |
| Number of phases | 3 AC | | |
| Rated voltage | 400V IEC | 480V NEC ¹⁾ | |
| Rated power (LO) | 0.55 kW | 0.75 hp | |
| Rated power (HO) | 0.37 kW | 0.50 hp | |
| Rated current (LO) | 1.70 A | | |
| Rated current (HO) | 1.30 A | | |
| Rated current (IN) | 1.80 A | | |
| Max. output current | 2.60 A | | |
| Pulse frequency | 4 kHz | | |
| Output frequency for vector control | 0 240 Hz | | |
| Output frequency for V/f control | 0 550 Hz | | |
| | | | |

Overload capability

Low Overload (LO)

150 % base load current IL for 3 s, followed by 110 % base load current IL for 57 s in a 300 s cycle time

High Overload (HO)

200% base load current IH for 3 s, followed by 150% base load current IH for 57 s in a 300 s cycle time

| General tech. specifications | | |
|------------------------------|------------|--|
| Power factor λ | 0.70 0.85 | |
| Offset factor $\cos \phi$ | 0.95 | |
| Efficiency η | 0.97 | |
| Sound pressure level (1m) | 49 dB | |
| Power loss | 33.5 W | |
| Filter class (integrated) | Unfiltered | |
| Communication | | |

Communication

PROFINET, EtherNet/IP

ltem no. : Consignment no. : Project :

| Inputs / outputs | | | | |
|--|-------------------------|--|--|--|
| Standard digital inputs | | | | |
| Number | 6 | | | |
| Switching level: 0→1 | 11 V | | | |
| Switching level: $1 \rightarrow 0$ | 5 V | | | |
| Max. inrush current | 15 mA | | | |
| Fail-safe digital inputs | | | | |
| Number | 1 | | | |
| Digital outputs | | | | |
| Number as relay changeover contact | 1 | | | |
| Output (resistive load) | DC 30 V, 0.5 A | | | |
| Number as transistor | 1 | | | |
| Output (resistive load) | DC 30 V, 0.5 A | | | |
| Analog / digital inputs | | | | |
| Number | 1 (Differential input) | | | |
| Resolution | 10 bit | | | |
| Switching threshold as digital input | | | | |
| 0→1 | 4 V | | | |
| 1→0 | 1.6 V | | | |
| Analog outputs | | | | |
| Number | 1 (Non-isolated output) | | | |
| PTC/ KTY interface | | | | |
| 1 motor temperature sensor input, sensors that can be connected PTC, KTY and Thermo-Click, accuracy $\pm 5~^\circ\text{C}$ | | | | |
| Closed-loop control techniques | | | | |
| V/f linear / square-law / parameterizable | Yes | | | |
| V/f with flux current control (FCC) | Yes | | | |
| V/f ECO linear / square-law | Yes | | | |

| V/f with flux current control (FCC) | Yes |
|-------------------------------------|-----|
| V/f ECO linear / square-law | Yes |
| Sensorless vector control | Yes |
| Vector control, with sensor | No |
| Encoderless torque control | No |
| Torque control, with encoder | No |

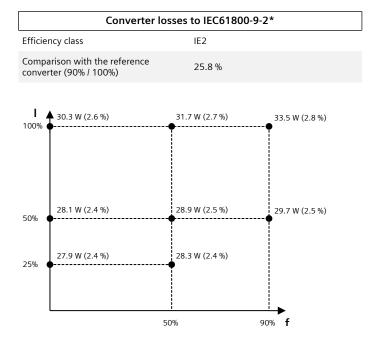
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| Ambi | ent conditions | |
|--------------------------------|---|--|
| Cooling | Air cooling using an integrated fan | |
| Cooling air requirement | 0.005 m³/s (0.177 ft³/s) | |
| Installation altitude | 1,000 m (3,280.84 ft) | |
| Ambient temperature | | |
| Operation | -10 40 °C (14 104 °F) | |
| Transport | -40 70 °C (-40 158 °F) | |
| Storage | -25 55 °C (-13 131 °F) | |
| Relative humidity | | |
| Max. operation | 95 % At 40 °C (104 °F), condensation and icing not permissible | |
| Co | onnections | |
| Signal cable | | |
| Conductor cross-section | 0.15 1.50 mm ² (AWG 24 AWG 16) | |
| Line side | | |
| Version | Plug-in screw terminals | |
| Conductor cross-section | 1.00 2.50 mm ² (AWG 18 AWG 14) | |
| Motor end | | |
| Version | Plug-in screw terminals | |
| Conductor cross-section | 1.00 2.50 mm² (AWG 18 AWG 14) | |
| DC link (for braking resistor) | | |
| Version | Plug-in screw terminals | |
| Conductor cross-section | 1.00 2.50 mm² (AWG 18 AWG 14) | |
| Line length, max. | 15 m (49.21 ft) | |
| PE connection | On housing with M4 screw | |
| Max. motor cable length | | |
| Shielded | 150 m (492.13 ft) | |
| Unshielded | 150 m (492.13 ft) | |
| Мес | chanical data | |
| Degree of protection | IP20 / UL open type | |
| Frame size | FSAA | |
| Net weight | 1.40 kg (3.09 lb) | |
| Dimensions | | |
| Width | 73 mm (2.87 in) | |
| Height | 173 mm (6.81 in) | |
| Depth | 160 mm (7.01 in) | |
| 9 | Standards | |
| Compliance with standards | CE, cUL, UL, KC, EAC, C-Tick (RCM) | |
| CE marking | EMC Directive 2004/108/EC, Low- Voltage Directive 2006/95/EC | |
| | | |



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.

*calculated values

¹⁾The output current and HP ratings are valid for the voltage range 440V-480V