SIEMENS

Data sheet for SINAMICS G120C

Article No. :

6SL3210-1KE23-8UB1



Figure similar

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

| Rated data | | | | |
|-------------------------------------|-----------------|------------------------|--|--|
| Input | | | | |
| Number of phases | 3 AC | | | |
| Line voltage | 380 480 V +10 % | 6 -20 % | | |
| Line frequency | 47 63 Hz | | | |
| Rated current (LO) | 48.20 A | | | |
| Rated current (HO) | 45.20 A | | | |
| Output | | | | |
| Number of phases | 3 AC | | | |
| Rated voltage | 400V IEC | 480V NEC ¹⁾ | | |
| Rated power (LO) | 18.50 kW | 25.00 hp | | |
| Rated power (HO) | 15.00 kW | 20.00 hp | | |
| Rated current (LO) | 37.00 A | | | |
| Rated current (HO) | 31.00 A | | | |
| Rated current (IN) | 38.00 A | | | |
| Max. output current | 62.00 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) | 66 dB | |
| Power loss | 434.0 W | |
| Filter class (integrated) | Unfiltered | |
| Communication | | |
| | | |

Communication

USS/MODBUS RTU

ltem no. : Consignment no. : Project :

| Inputs / outputs | | | | |
|--|--|--|--|--|
| Standard digital inputs | | | | |
| 6 | | | | |
| 11 V | | | | |
| 5 V | | | | |
| 15 mA | | | | |
| | | | | |
| 1 | | | | |
| | | | | |
| 1 | | | | |
| DC 30 V, 0.5 A | | | | |
| 1 | | | | |
| DC 30 V, 0.5 A | | | | |
| | | | | |
| 1 (Differential input) | | | | |
| 10 bit | | | | |
| | | | | |
| 4 V | | | | |
| 1.6 V | | | | |
| | | | | |
| 1 (Non-isolated output) | | | | |
| | | | | |
| 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 | | | | |
| Yes | | | | |
| Yes | | | | |
| | | | | |
| | | | | |

| Sensorless vector control | Yes |
|------------------------------|-----|
| Vector control, with sensor | No |
| Encoderless torque control | No |
| Torque control, with encoder | No |

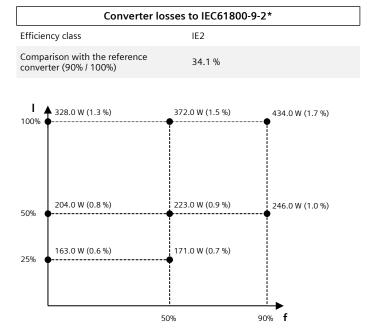
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| Ambie | ent conditions |
|--------------------------------|---|
| Cooling | Air cooling using an integrated fan |
| Cooling air requirement | 0.018 m³/s (0.636 ft³/s) |
| Installation altitude | 1,000 m (3,280.84 ft) |
| Ambient temperature | |
| Operation | -10 40 °C (14 104 °F) |
| Transport | -40 70 °C (-40 158 °F) |
| Storage | -40 70 °C (-40 158 °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 mm² (AWG 24 AWG 16) |
| Line side | |
| Version | Plug-in screw terminals |
| Conductor cross-section | 6.00 16.00 mm ² (AWG 10 AWG 6) |
| Motor end | |
| Version | Plug-in screw terminals |
| Conductor cross-section | 6.00 16.00 mm² (AWG 10 AWG 6) |
| DC link (for braking resistor) | |
| Version | Plug-in screw terminals |
| Conductor cross-section | 6.00 16.00 mm² (AWG 10 AWG 6) |
| 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 | hanical data |
| Degree of protection | IP20 / UL open type |
| Frame size | FSC |
| Net weight | 4.40 kg (9.70 lb) |
| Dimensions | |
| Width | 140 mm (5.51 in) |
| Height | 295 mm (11.61 in) |
| Depth | 203 mm (7.99 in) |
| S | Standards |
| Compliance with standards | UL, cUL, CE, 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

 $^{1)}\mbox{The}$ output current and HP ratings are valid for the voltage range 440V-480V