

Article No. : 6SL3230-3YE34-0AB0

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

Item no. :
Consignment no. :
Project :



Figure similar

| Rated data | | |
|------------|--|--|
|------------|--|--|

| | | |
|--------------------|---------------------------|----------|
| Input | | |
| Number of phases | 3 AC | |
| Line voltage | 380 ... 480 V +10 % -20 % | |
| Line frequency | 47 ... 63 Hz | |
| Rated voltage | 400V IEC | 480V NEC |
| Rated current (LO) | 57.00 A | 49.00 A |
| Rated current (HO) | 47.00 A | 41.00 A |

| | | |
|-------------------------------------|--------------|------------------------|
| Output | | |
| Number of phases | 3 AC | |
| Rated voltage | 400V IEC | 480V NEC ¹⁾ |
| Rated power (LO) | 30.00 kW | 40.00 hp |
| Rated power (HO) | 22.00 kW | 30.00 hp |
| Rated current (LO) | 60.00 A | 52.00 A |
| Rated current (HO) | 45.00 A | 40.00 A |
| Rated current (IN) | 62.00 A | |
| Max. output current | 81.00 A | |
| Pulse frequency | 4 kHz | |
| Output frequency for vector control | 0 ... 200 Hz | |
| Output frequency for V/f control | 0 ... 550 Hz | |

| | |
|---------------------|--|
| Overload capability | |
| Low Overload (LO) | 110% base load current IL for 60 s in a 300 s cycle time |
| High Overload (HO) | 150% x base load current IH for 60 s within a 600 s cycle time |

| General tech. specifications | |
|-----------------------------------|---|
| Power factor λ | 0.90 ... 0.95 |
| Offset factor cos φ | 0.99 |
| Efficiency η | 0.97 |
| Sound pressure level (1m) | 70 dB |
| Power loss ³⁾ | 0.841 kW |
| Filter class (integrated) | RFI suppression filter for Category C2 |
| EMC category (with accessories) | Category C2 |
| Safety function "Safe Torque Off" | without SIRIUS device (e.g. via S7-1500F) |

| Communication | |
|---------------|-------------------------------|
| Communication | USS, Modbus RTU, BACnet MS/TP |

| Inputs / outputs | |
|------------------|--|
|------------------|--|

| | |
|-------------------------|-------|
| Standard digital inputs | |
| Number | 6 |
| Switching level: 0 → 1 | 11 V |
| Switching level: 1 → 0 | 5 V |
| Max. inrush current | 15 mA |

| | |
|--------------------------|---|
| Fail-safe digital inputs | |
| Number | 1 |

| | |
|------------------------------------|----------------|
| Digital outputs | |
| Number as relay changeover contact | 2 |
| Output (resistive load) | DC 30 V, 5.0 A |
| Number as transistor | 0 |

| | |
|-------------------------|------------------------|
| Analog / digital inputs | |
| Number | 2 (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 ±5 °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 |
| Sensorless vector control | Yes |
| Vector control, with sensor | No |
| Encoderless torque control | No |
| Torque control, with encoder | No |

Data sheet for SINAMICS G120X

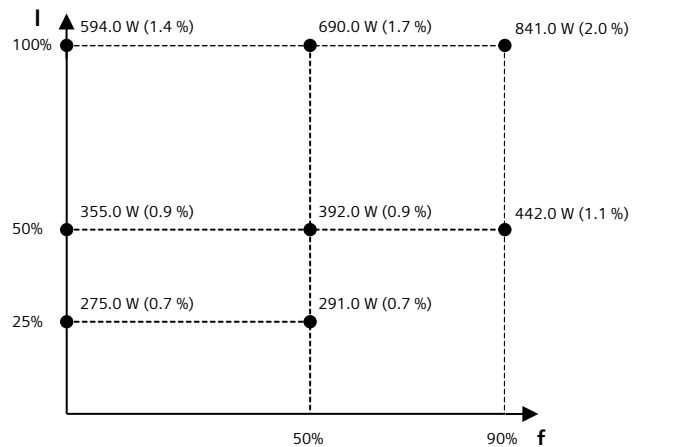
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| Ambient conditions | |
|-----------------------------|--|
| Standard board coating type | Class 3C3, according to IEC 60721-3-3: 2002 |
| Cooling | Air cooling using an integrated fan |
| Cooling air requirement | 0.055 m³/s (1.942 ft³/s) |
| Installation altitude | 1,000 m (3,280.84 ft) |
| Ambient temperature | |
| Operation | -20 ... 45 °C (-4 ... 113 °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 |

| Connections | |
|--------------------------------|---------------------------------------|
| Signal cable | |
| Conductor cross-section | 0.15 ... 1.50 mm² (AWG 24 ... AWG 16) |
| Line side | |
| Version | screw-type terminal |
| Conductor cross-section | 10.00 ... 35.00 mm² (AWG 8 ... AWG 2) |
| Motor end | |
| Version | Screw-type terminals |
| Conductor cross-section | 10.00 ... 35.00 mm² (AWG 8 ... AWG 2) |
| DC link (for braking resistor) | |
| PE connection | Screw-type terminals |
| Max. motor cable length | |
| Shielded | 150 m (492.13 ft) |

| Mechanical data | |
|---------------------------|---|
| Degree of protection | IP20 / UL open type |
| Frame size | FSD |
| Net weight | 18 kg (39.68 lb) |
| Dimensions | |
| Width | 200 mm (7.87 in) |
| Height | 472 mm (18.58 in) |
| Depth | 248 mm (9.76 in) |
| Standards | |
| Compliance with standards | UL, cUL, CE, C-Tick (RCM), EAC, KCC, SEMI F47, REACH |
| CE marking | EMC Directive 2004/108/EC, Low-Voltage Directive 2006/95/EC |

| Converter losses to IEC61800-9-2* | |
|--|--------|
| Efficiency class | IE2 |
| Comparison with the reference converter (90% / 100%) | 42.2 % |



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⁾The output current and HP ratings are valid for the voltage range 440V-480V
³⁾Typical value. More information can be found in the element group "Converter losses to IEC 61800-9-2" in this datasheet.



Data sheet for SINAMICS G120X

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| | |
|--|--|
| Operator panel: Intelligent Operator Panel (IOP-2) | |
| Screen | |
| Display design | LCD color |
| Screen resolution | 320 x 240 Pixel |
| Mechanical data | |
| Degree of protection | IP55 / UL type 12 |
| Net weight | 0.134 kg (0.30 lb) |
| Dimensions | |
| Width | 70.00 mm (2.76 in) |
| Height | 106.85 mm (4.21 in) |
| Depth | 19.65 mm (0.77 in) |
| Ambient conditions | |
| Ambient temperature | |
| Operation | 0 ... 50 °C (32 ... 122 °F) 55 °C only with door installation kit |
| Storage | -40 ... 70 °C (-40 ... 158 °F) |
| Transport | -40 ... 70 °C (-40 ... 158 °F) |
| Relative humidity at 25°C during | |
| Max. operation | 95 % |
| Approvals | |
| Certificate of suitability | CE, cULus, EAC, KCC, RCM |

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