

MLFB-Ordering data

6SL3220-3YE12-0AF0



Figure similar

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

| ltem no. : |
|-------------------|
| Consignment no. : |
| Project : |

| Rated data | | | General tech | General tech. specifications | |
|-------------------------------------|-----------------------|----------|---------------------------------|---|--|
| nput | | | Power factor λ | 0.70 0.85 | |
| Number of phases | 3 AC | | Offset factor cos φ | 0.96 | |
| Line voltage | 380 480 V +10 % -20 % | | - Efficiency η | 0.98 | |
| Line frequency | 47 63 Hz | | Sound pressure level (1m) | 55 dB | |
| Rated voltage | 400V IEC | 480V NEC | Power loss | 0.050 kW | |
| Rated current (LO) | 2.80 A | 2.70 A | Filter class (integrated) | RFI suppression filter for Category C2 | |
| Rated current (HO) | 1.99 A | 2.00 A | Filler class (integrated) | | |
| Output | | | EMC category (with accessories) | Category C2 | |
| Number of phases | 3 AC | | | | |
| Rated voltage | 400V IEC | 480V NEC | Ambient conditions | | |
| Rated power (LO) | 1.10 kW | 1.50 hp | Standard board coating type | Class 3C2, according to IEC 6072 3: 2002 | |
| Rated power (HO) | 0.75 kW | 1.00 hp | | | |
| Rated current (LO) | 3.10 A | 3.00 A | Cooling | Air cooling using an integrated fa | |
| Rated current (HO) | 2.20 A | 2.10 A | | | |
| Rated current (IN) | 3.20 A | | Cooling air requirement | 0.005 m³/s (0.177 ft³/s) | |
| Max. output current | 3.40 A | | Installation altitude | 1000 m (3280.84 ft) | |
| Pulse frequency | 4 kHz | | Ambient temperature | | |
| Output frequency for vector control | 0 200 Hz | | Operation | -20 45 °C (-4 113 °F) | |
| | | | Transport | -40 70 °C (-40 158 °F) | |
| Output frequency for V/f control | 0 550 Hz | | Storage | -25 55 ℃ (-13 131 °F) | |
| | | | Relative humidity | | |
| | | | Max operation | 95 % At 40 °C (104 °F), condensa | |

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

Max. operation

and icing not permissible



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Figure similar **Mechanical data Closed-loop control techniques** Degree of protection IP20 / UL open type V/f linear / square-law / parameterizable Yes Size FSA V/f with flux current control (FCC) Yes Net weight 3 kg (7.50 lb) V/f ECO linear / square-law Yes Width 73 mm (2.87 in) Sensorless vector control Yes 232 mm (9.13 in) Height Vector control, with sensor No Depth 218 mm (8.58 in) **Encoderless torque control** Yes Inputs / outputs **Standard digital inputs** Torque control, with encoder No Number 6 Communication Switching level: 0→1 11 V Communication PROFINET, EtherNet/IP Switching level: 1→0 5 V Connections Max. inrush current 15 mA Signal cable Fail-safe digital inputs 0.15 ... 1.50 mm² Conductor cross-section Number (AWG 24 ... AWG 16) **Digital outputs** Line side screw-type terminal Version Number as relay changeover contact 2 1.50 ... 2.50 mm² Conductor cross-section Output (resistive load) DC 30 V, 5.0 A (AWG 16 ... AWG 14) Number as transistor Motor end Λ Version Screw-type terminals Analog / digital inputs 1.50 ... 2.50 mm² 2 (Differential input) Number Conductor cross-section (AWG 16 ... AWG 14) Resolution 10 bit DC link (for braking resistor) Switching threshold as digital input PE connection On housing with M4 screw 0→1 4 V Max. motor cable length 1→0 1.6 V Shielded 150 m (492.13 ft) 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 $\pm5~^\circ\text{C}$

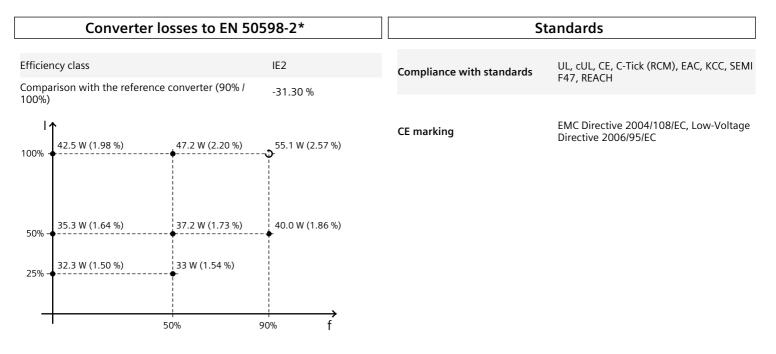


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The percentage values show the losses in relation to the rated apparent power of the converter.

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.

*converted values

Operator panel: Intelligent Operator Panel (IOP-2)

| S | Screen | Amb | Ambient conditions | |
|----------------------|---------------------|-----------------------------|-----------------------------------|--|
| Display design | LCD colors | Ambient temperature during | | |
| Screen resolution | 320 x 240 Pixel | Operation | 0 50 °C (32 122 °F) | |
| | 520 / 2 10 11/01 | | 55 °C only with door mounting kit | |
| Mechanical data | | Storage | -40 70 °C (-40 158 °F) | |
| Degree of protection | IP55 / UL type 12 | Transport | -40 70 °C (-40 158 °F) | |
| Net weight | 0.13 kg (0.30 lb) | Relative humidity at 25°C (| during | |
| Width | 70.0 mm (2.76 in) | Max. operation | 95 % | |
| Height | 106.85 mm (4.21 in) | | | |
| - | | | Approvals | |
| Depth | 19.65 mm (0.77 in) | Certificate of suitability | CE, cULus, EAC, KCC, RCM | |