

MLFB-Ordering data

6SL3210-1KE14-3UB2



Figure similar

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

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

| Rated data | | General tecl | General tech. specifications | |
|-------------------------------------|-----------------------|---|--|--|
| Input | | Power factor λ | 0.70 0.85 | |
| Number of phases | 3 AC | Offset factor cos φ | 0.95 | |
| Line voltage | 380 480 V +10 % -20 % | Efficiency η | 0.97 | |
| Line frequency | 47 63 Hz | Sound pressure level (1m) | 49 dB | |
| Rated current (LO) | 5.50 A | Power loss | 0.06 kW | |
| Rated current (HO) | 4.50 A | Filter class (integrated) | Unfiltered | |
| Output | | Ambian | t conditions | |
| Number of phases | 3 AC | Ambien | | |
| Rated voltage | 400 V | Cooling | Air cooling using an integrated fan | |
| Rated power IEC 400V (LO) | 1.50 kW | Cooling singer incoment | 0.005 | |
| Rated power NEC 480V (LO) | 2.00 hp | Cooling air requirement | 0.005 m ³ /s (0.177 ft ³ /s) | |
| Rated power IEC 400V (HO) | 1.10 kW | Installation altitude | 1000 m (3280.84 ft) | |
| Rated power NEC 480V (HO) | 1.50 hp | Ambient temperature | | |
| Rated current (IN) | 4.30 A | Operation | -10 40 °C (14 104 °F) | |
| Rated current (LO) | 4.10 A | Transport | -40 70 °C (-40 158 °F) | |
| Rated current (HO) | 3.10 A | Storage | -40 70 °C (-40 158 °F) | |
| Max. output current | 6.20 A | Relative humidity | | |
| Pulse frequency | 4 kHz | Max. operation | 95 % At 40 °C (104 °F), condensation and icing not permissible | |
| Output frequency for vector control | 0 240 Hz | | | |
| | | Closed-loop control techniques | | |
| Output frequency for V/f control | 0 550 Hz | V/f linear / square-law / parameterizable Yes | | |
| | | V/f with flux current control (FC | C) Yes | |
| Overload capability | | V/f ECO linear / square-law | Yes | |
| Low Overload (LO) | | Sensorless vector control | Yes | |
| | | | | |

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

Vector control, with sensor

Encoderless torque control

Torque control, with encoder

No

No

No



Technical data are subject to change! There may be discrepancies between calculated and rating plate values.



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| | | | Figure s | |
|------------------------------------|------------------------|-------------------------------|--|--|
| Mechanical data | | Com | Communication | |
| Degree of protection | IP20 / UL open type | Communication | USS/MODBUS RTU | |
| Size | FSAA | Connections | | |
| Net weight | 1.40 kg (3.09 lb) | Signal cable | | |
| Width | 73 mm (2.87 in) | Conductor cross-section | 0.15 1.50 mm² (AWG 24 AWG 1 | |
| Height | 173 mm (6.81 in) | Line side | | |
| Depth | 155 mm (6.10 in) | Version | Plug-in screw terminals | |
| Inputs / outputs | | Conductor cross-section | 1.00 2.50 mm² (AWG 18 AWG 1 | |
| tandard digital inputs | | Motor end | | |
| Number | 6 | Version | Plug-in screw terminals | |
| Switching level: 0→1 | 11 V | Conductor cross-section | 1.00 2.50 mm² (AWG 18 AWG 1 | |
| Switching level: 1→0 | 5 V | DC link (for braking resistor |) | |
| Max. inrush current | 15 mA | Version | Plug-in screw terminals | |
| ail-safe digital inputs | | Conductor cross-section | 1.00 2.50 mm² (AWG 18 AWG 1 | |
| Number | 1 | Line length, max. | 15 m (49.21 ft) | |
| ligital outputs | | PE connection | On housing with M4 screw | |
| Number as relay changeover contact | 1 | Max. motor cable length | on housing with we selew | |
| Output (resistive load) | DC 30 V, 0.5 A | Shielded | 50 m (164.04 ft) | |
| Number as transistor | 1 | Unshielded | 100 m (328.08 ft) | |
| Output (resistive load) | DC 30 V, 0.5 A | S | Standards | |
| nalog / digital inputs | | Compliance with standards | UL, cUL, CE, C-Tick (RCM) | |
| Number | 1 (Differential input) | | | |
| Resolution | 10 bit | CE marking | EMC Directive 2004/108/EC, Low-Vol Directive 2006/95/EC | |
| witching threshold as digital in | put | | | |
| 0→1 | 4 V | | | |
| | | | | |

Analog outputs

Number

1→0

1 (Non-isolated output)

1.6 V

PTC/ KTY interface

1 motor temperature sensor input, sensors that can be connected: PTC, KTY and Thermo-Click, accuracy $\pm 5~^\circ\mathrm{C}$





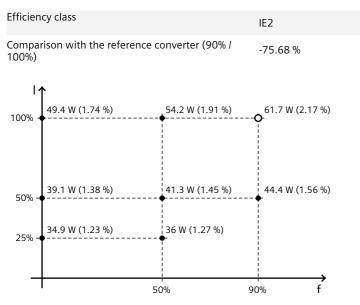
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Figure similar

Converter losses to EN 50598-2*



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 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

