

MLFB-Ordering data

6SL3210-1KE14-3UF2



Figure similar

Client order no.:

Item no.: nt no. :

| Rated data | |
|----------------|-------------|
| Remarks : | |
| Offer no. : | Project : |
| Order no. : | Consignment |
| Cheff order no | item no |

| kated data | | |
|-------------------------------------|-----------------------|--|
| Input | | |
| Number of phases | 3 AC | |
| Line voltage | 380 480 V +10 % -20 % | |
| Line frequency | 47 63 Hz | |
| Rated current (LO) | 5.50 A | |
| Rated current (HO) 4.50 A | | |
| Output | | |
| Number of phases | 3 AC | |
| Rated voltage | 400 V | |
| Rated power IEC 400V (LO) | 1.50 kW | |
| Rated power NEC 480V (LO) | 2.00 hp | |
| Rated power IEC 400V (HO) | 1.10 kW | |
| Rated power NEC 480V (HO) | 1.50 hp | |
| Rated current (IN) | 4.30 A | |
| Rated current (LO) | 4.10 A | |
| Rated current (HO) | 3.10 A | |
| Max. output current | 6.20 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 φ | 0.95 | |
| Efficiency η | 0.97 | |
| Sound pressure level (1m) | 49 dB | |
| Power loss | 0.06 kW | |
| Filter class (integrated) | Unfiltered | |
| | | |

| Ambient conditions | | |
|-------------------------------------|--|--|
| Air cooling using an integrated fan | | |
| 0.005 m³/s (0.177 ft³/s) | | |
| 1000 m (3280.84 ft) | | |
| | | |
| -10 40 °C (14 104 °F) | | |
| -40 70 °C (-40 158 °F) | | |
| -40 70 °C (-40 158 °F) | | |
| Relative humidity | | |
| | | |

| 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 | |



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| | | _ | Figure s |
|------------------------------------|------------------------|--------------------------------|--|
| Mechanica | data | Com | munication |
| Degree of protection | IP20 / UL open type | Communication | PROFINET, EtherNet/IP |
| Size | FSAA | Co | nnections |
| 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 10 |
| Height | 173 mm (6.81 in) | Line side | |
| Depth | 160 mm (6.30 in) | Version | Plug-in screw terminals |
| Inputs / ou | tputs | Conductor cross-section | 1.00 2.50 mm² (AWG 18 AWG 14 |
| 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) |
| igital outputs | | PE connection | On housing with M4 screw |
| Number as relay changeover contact | 1 | Max. motor cable length | on nousing with wire screw |
| 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 | tandards |
| 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-Volt Directive 2006/95/EC |
| witching threshold as digital in | put | | |
| 0→1 | 4 V | | |
| | | | |

Analog outputs

1 → 0

Number 1 (Non-isolated output)

PTC/ KTY interface

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

1.6 V



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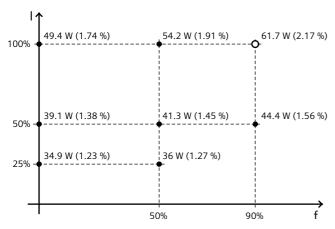
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Figure similar

Converter losses to EN 50598-2*

| Efficiency class | IE2 |
|--|----------|
| Comparison with the reference converter (90% / | -75.68 % |



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

