

MLFB-Ordering data

6SL3210-1KE18-8UF1



Figure similar

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

| Remarks : | | | | |
|-------------------------------------|-----------------------|-----------------------------------|------------|---|
| Rated data | | 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) | 52 | 2 dB |
| Rated current (LO) | 11.40 A | Power loss | 0. | 15 kW |
| Rated current (HO) | 10.60 A | Filter class (integrated) | Ur | nfiltered |
| Output | | Amhien | t conditio | nns |
| Number of phases | 3 AC | Ambien | Conditio | ,,,,, |
| Rated voltage | 400 V | Cooling | Air cooli | ng using an integrated fan |
| Rated power IEC 400V (LO) | 4.00 kW | | | |
| Rated power NEC 480V (LO) | 5.00 hp | Cooling air requirement | 0.005 m | ³/s (0.177 ft³/s) |
| Rated power IEC 400V (HO) | 3.00 kW | Installation altitude | 1000 m | (3280.84 ft) |
| Rated power NEC 480V (HO) | 4.00 hp | Ambient temperature | | |
| • | · | Operation | -10 40 | °C (14 104 °F) |
| Rated current (IN) | 9.00 A | Transport | -40 70 |) °C (-40 158 °F) |
| Rated current (LO) | 8.80 A | Storage | -40 70 |) °C (-40 158 °F) |
| Rated current (HO) | 7.30 A | Relative humidity | | |
| Max. output current | 14.60 A | neduce numbers | | |
| Pulse frequency | 4 kHz | Max. operation | | 40 °C (104 °F), condensation g not permissible |
| Output frequency for vector control | 0 240 Hz | | | |
| | | Closed-loop o | ontrol tec | chniques |
| Output frequency for V/f control | 0 550 Hz | V/f linear / square-law / paramet | terizable | Yes |
| | | V/f with flux current control (FC | C) | Yes |
| Overload capability | | V/f ECO linear / square-law | | Yes |
| 5.5.70aa capasiiity | | | | |

Item no.: Consignment no. : Project :

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

Sensorless vector control

Vector control, with sensor

Encoderless torque control

Torque control, with encoder

Yes

No

No

No



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| Mechanical data | | Com | munication |
|------------------------------------|------------------------|--|--|
| Degree of protection | IP20 / UL open type | Communication | PROFINET, EtherNet/IP |
| Size | FSA | Connections | |
| Net weight | 1.70 kg (3.75 lb) | Signal cable | |
| Width | 73 mm (2.87 in) | Conductor cross-section | 0.15 1.50 mm² (AWG 24 AWG 16) |
| Height | 196 mm (7.72 in) | Line side | |
| Depth | 208 mm (8.19 in) | Version | Plug-in screw terminals |
| Inputs / out | tputs | Conductor cross-section | 1.00 2.50 mm² (AWG 18 AWG 14) |
| Standard 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 14) |
| Switching level: 1→0 | 5 V | DC link (for braking resistor) |) |
| Max. inrush current | 15 mA | Version | Plug-in screw terminals |
| Fail-safe digital inputs | | Conductor cross-section | 1.00 2.50 mm ² (AWG 18 AWG 14) |
| Number | 1 | | |
| Digital outputs | | Line length, max. | 15 m (49.21 ft) |
| Number as relay changeover contact | 1 | PE connection Max. motor cable length | On housing with M4 screw |
| Output (resistive load) | DC 30 V, 0.5 A | Shielded | 50 m (164.04 ft) |
| Number as transistor | 1 | Unshielded | 150 m (492.13 ft) |
| Output (resistive load) | DC 30 V, 0.5 A | Standards | |
| Analog / 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-Voltage Directive 2006/95/EC |
| Switching threshold as digital in | put | | |
| - | | | |

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Analog outputs

0→1

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 $\pm 5~^{\circ}\text{C}$

4 V

1.6 V



MLFB-Ordering data

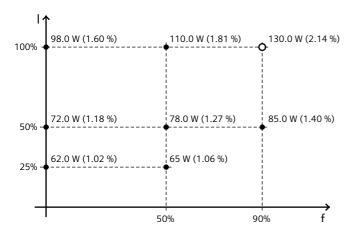
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Figure similar

Converter losses to EN 50598-2*

| Efficiency class | IE2 |
|--|----------|
| Comparison with the reference converter (90% / 100%) | -66.51 % |



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