

MLFB-Ordering data

6SL3210-1KE17-5UP1



Figure similar

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

| Item no. : |
|-------------------|
| Consignment no. : |
| Project : |

| Rated data | | General tech. specifications | | | |
|-------------------------------------|-----------------------|----------------------------------|------------|--|--|
| Input | | Power factor λ | 0.7 | 70 0.85 | |
| Number of phases | 3 AC | Offset factor cos φ | 0.9 | 95 | |
| Line voltage | 380 480 V +10 % -20 % | Efficiency η | 0.9 | 97 | |
| Line frequency | 47 63 Hz | Sound pressure level (1m) | 52 | dB | |
| Rated current (LO) | 9.50 A | Power loss | 0.1 | 14 kW | |
| Rated current (HO) | 8.20 A | Filter class (integrated) | Un | filtered | |
| Output | | - Ah | | | |
| Number of phases | 3 AC | Ambient conditions | | | |
| Rated voltage | 400 V | Cooling | Air coolin | ig using an integrated fan | |
| Rated power IEC 400V (LO) | 3.00 kW | | 0.005 | | |
| Rated power NEC 480V (LO) | 4.00 hp | Cooling air requirement | | /s (0.177 ft³/s) | |
| Rated power IEC 400V (HO) | 2.20 kW | Installation altitude | 1000 m (| 3280.84 ft) | |
| Rated power NEC 480V (HO) | 3.00 hp | Ambient temperature | | | |
| Rated current (IN) | 7.50 A | Operation | -10 40 | °C (14 104 °F) | |
| Rated current (LO) | 7.30 A | Transport | -40 70 | °C (-40 158 °F) | |
| Rated current (HO) | 5.60 A | Storage | -40 70 | °C (-40 158 °F) | |
| Max. output current | 11.20 A | Relative humidity | | | |
| Pulse frequency | 4 kHz | Max eneration | | 95 % At 40 °C (104 °F), condensation and icing not permissible | |
| | | Max. operation | and icing | | |
| Output frequency for vector control | 0 240 Hz | Closed-loop control techniques | | | |
| Output frequency for V/f control | 0 550 Hz | | | -1 | |
| | | V/f linear / square-law / parame | eterizable | Yes | |
| | | V/f with flux current control (F | CC) | Yes | |

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

| v/f with flux current control (FCC) | res |
|-------------------------------------|-----|
| 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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| Mechanical data | | Communication | | |
|--|------------------------------------|--------------------------------|--|--|
| Degree of protection | IP20 / UL open type | Communication | PROFIBUS DP | |
| 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 | 203 mm (7.99 in) | Version | Plug-in screw terminals | |
| Inputs / outputs | | 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 mm² (AWG 18 AWG 14) | |
| Number | 1 | Line length, max. | 15 m (49.21 ft) | |
| Digital outputs | | PE connection | On housing with M4 screw | |
| Number as relay changeover contact | 1 | Max. motor cable length | - | |
| 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 | out | | | |
| 0→1 | 4 V | | | |
| 1→0 | 1.6 V | | | |
| Analog outputs | | | | |
| Number | 1 (Non-isolated output) | | | |
| PTC/ KTY interface | | | | |
| 1 motor temperature sensor input, sensor and Thermo-Click, accuracy ±5 °C | rs that can be connected: PTC, KTY | | | |



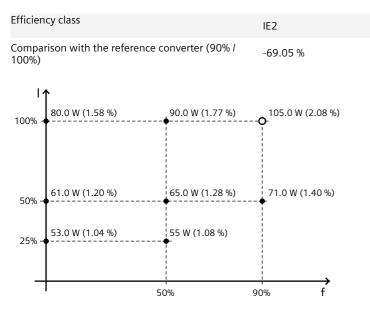
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Figure similar

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