

MLFB-Ordering data

6SL3210-1KE23-8UP1



Figure similar

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

| ltem no. : | |
|-------------------|--|
| Consignment no. : | |
| Proiect : | |

| Rated data | | General tech | 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) | 66 dB | | |
| Rated current (LO) | 48.20 A | Power loss | 0.50 kW | | |
| Rated current (HO) | 45.20 A | Ambient conditions | | | |
| Output | | Ambien | | | |
| Number of phases | 3 AC | Cooling | Air cooling using an integrated fa | | |
| Rated voltage | 400 V | Cooling air requirement | 0.018 m³/s (0.636 ft³/s) | | |
| Rated power IEC 400V (LO) | 18.50 kW | Installation altitude | 1000 m (3280.84 ft) | | |
| Rated power NEC 480V (LO) | 25.00 hp | | 1000 111 (3280.84 11) | | |
| Rated power IEC 400V (HO) | 15.00 kW | Ambient temperature | | | |
| Rated power NEC 480V (HO) | 20.00 hp | Operation | -10 40 °C (14 104 °F) | | |
| Rated current (IN) | 38.00 A | Transport | -40 70 °C (-40 158 °F) | | |
| Rated current (LO) | 37.00 A | Storage | -40 70 °C (-40 158 °F) | | |
| Rated current (HO) | 31.00 A | Relative humidity | | | |
| Max. output current | 62.00 A | Max. operation | 95 % At 40 °C (104 °F), condensat and icing not permissible | | |
| Pulse frequency | 4.000 kHz | | | | |
| 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 / paramete | erizable Yes | | |
| | | V/f with flux current control (FCC | C) Yes | | |
| | | V/f ECO linear / square-law | Yes | | |
| Overload capability | | Sensorless vector control | Yes | | |
| 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 | | Vector control, with sensor | No | | |
| | | Encoderless torque control | No | | |
| High Overload (HO) | | Torque control, with encoder | No | | |
| 200 % base load current IH for 3 s, followed by 150 % base load current IH for 57 s in a 300 s cycle time | | Communication | | | |

Communication

PROFIBUS DP



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| Mechanical data | | Co | Figure similar Connections | | |
|--------------------------------------|-------------------------|-------------------------------|--|--|--|
| Degree of protection | IP20 / UL open type | Signal cable | | | |
| Size | FSC | Conductor cross-section | 0.15 1.50 mm² (AWG 24 AWG 16) | | |
| Net weight | 4.40 kg (9.70 lb) | Line side | | | |
| Width | 140 mm (5.51 in) | Version | Plug-in screw terminals | | |
| Height | 295 mm (11.61 in) | Conductor cross-section | 6.00 16.00 mm² (AWG 10 AWG 6) | | |
| Depth | 203 mm (7.99 in) | Motor end | | | |
| Inputs / out | tputs | Version | Plug-in screw terminals | | |
| Standard digital inputs | | Conductor cross-section | 6.00 16.00 mm² (AWG 10 AWG 6) | | |
| Number | 6 | DC link (for braking resistor |) | | |
| Switching level: 0→1 | 11 V | Version | Plug-in screw terminals | | |
| Switching level: 1→0 | 5 V | Conductor cross-section | 6.00 16.00 mm² (AWG 10 AWG 6) | | |
| Max. inrush current | 15 mA | Line length, max. | 15 m (49.21 ft) | | |
| Fail-safe digital inputs | | PE connection | On housing with M4 screw | | |
| Number | 1 | Max. motor cable length | | | |
| Digital outputs | | Shielded | 150 m (492.13 ft) | | |
| Number as relay changeover contact | 1 | Unshielded | 150 m (492.13 ft) | | |
| Output (resistive load) | DC 30 V, 0.5 A | Standards | | | |
| Number as transistor | 1 | Compliance with standards | UL, cUL, CE, C-Tick (RCM) | | |
| Output (resistive load) | DC 30 V, 0.5 A | | | | |
| Analog / digital inputs | | CE marking | EMC Directive 2004/108/EC, Low-Voltage Directive 2006/95/EC | | |
| Number | 1 (Differential input) | | | | |
| Resolution | 10 bit | | | | |
| Switching threshold as digital input | | | | | |
| 0→1 | 4 V | | | | |
| 1→0 | 1.6 V | | | | |
| 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 $\pm 5~^\circ\mathrm{C}$

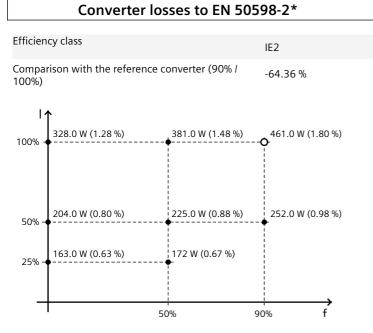


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Figure similar



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