

MLFB-Ordering data

6SL3210-1KE24-4AF1



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

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

| Rated data | | General tech. specifications | | |
|---|-----------------------|--|-----------------------|----------------------------|
| Input | | Power factor λ | 0.9 | 90 0.95 |
| Number of phases | 3 AC | Offset factor cos φ | 0.9 | 99 |
| Line voltage | 380 480 V +10 % -20 % | Efficiency η | 0.9 | 98 |
| Line frequency | 47 63 Hz | Sound pressure level (1m) | 72 | dB |
| Rated current (LO) | 41.00 A | Power loss | 0.6 | 58 kW |
| Rated current (HO) | 39.00 A | Filter class (integrated) | Cla | iss A |
| Output | | Ambion | t conditio | |
| Number of phases | 3 AC | Ambient conditions | | |
| Rated voltage | 400 V | Cooling | Air coolin | g using an integrated fan |
| Rated power IEC 400V (LO) | 22.00 kW | Cooling air requirement | 0 055 m³ | /s (1.942 ft³/s) |
| Rated power NEC 480V (LO) | 25.00 hp | Installation altitude | | |
| Rated power IEC 400V (HO) | 18.50 kW | | 1000 III (. | 3280.84 ft) |
| Rated power NEC 480V (HO) | 20.00 hp | Ambient temperature | 20 40 | 0C (4 404 0E) |
| Rated current (IN) | 43.00 A | Operation _ | -20 40 °C (-4 104 °F) | |
| Rated current (LO) | 43.00 A | Transport | | °C (-40 158 °F) |
| Rated current (HO) | 37.00 A | Storage | -40 70 | °C (-40 158 °F) |
| Max. output current | 74.00 A | Relative humidity | | |
| Pulse frequency | 4 kHz | Max. operation 95 % RH, condensation not permi | | condensation not permittee |
| Output frequency for vector control | 0 240 Hz | | | |
| | | Closed-loop c | ontrol tec | hniques |
| Output frequency for V/f control | 0 550 Hz | V/f linear / square-law / parame | terizable | 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 | | Vector control, with sensor | | No |
| | | Encoderless torque control | | No |
| High Overload (HO) 200 % base load current IH for 3 s, followed by 150 % base load current IH for 57 s in a | | Torque control, with encoder | | No |

300 s cycle time



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| Mechanical data | | Com | Figure similar Communication | | |
|------------------------------------|------------------------|------------------------------------|--|--|--|
| Degree of protection | IP20 / UL open type | Communication | PROFINET, EtherNet/IP | | |
| Size | FSD | Connections | | | |
| Net weight | 18.80 kg (41.45 lb) | Signal cable | | | |
| Width | 200 mm (7.87 in) | Conductor cross-section | 0.15 1.50 mm² (AWG 24 AWG 16) | | |
| Height | 472 mm (18.58 in) | Line side | | | |
| Depth | 237 mm (9.33 in) | Version | screw-type terminal | | |
| Inputs / out | puts | Conductor cross-section | 10.00 35.00 mm² (AWG 8 AWG 2) | | |
| Standard digital inputs | | Motor end | | | |
| Number | 6 | Version | Screw-type terminals | | |
| Switching level: 0→1 | 11 V | Conductor cross-section | 10.00 35.00 mm² (AWG 8 AWG 2) | | |
| Switching level: 1→0 | 5 V | DC link (for braking resistor) |) | | |
| Max. inrush current | 15 mA | Version | Screw-type terminals | | |
| ail-safe digital inputs | | Conductor cross-section | 10.00 35.00 mm ² (AWG 8 AWG 2) | | |
| Number | 1 | | 10 m (32.81 ft) | | |
| Digital outputs | | Line length, max. PE connection | | | |
| Number as relay changeover contact | 1 | Max. motor cable length | Screw-type terminals | | |
| Output (resistive load) | DC 30 V, 0.5 A | Shielded | 200 m (656.17 ft) | | |
| Number as transistor | 1 | Unshielded | 300 m (984.25 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 | | | | |
| 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 $\pm 5~^\circ\mathrm{C}$

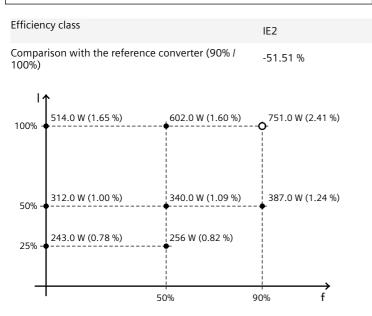


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Converter losses to EN 50598-2*



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