

MLFB-Ordering data

6SL3210-1KE31-1UF1



Figure similar

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

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

| Rated data | | General tech. specifications | | |
|---|-----------------------|-----------------------------------|-------------|----------------------------|
| Input | | Power factor λ | 0.9 | 0 0.95 |
| Number of phases | 3 AC | Offset factor cos φ | 0.9 | 9 |
| Line voltage | 380 480 V +10 % -20 % | Efficiency η | 0.9 | 8 |
| Line frequency | 47 63 Hz | Sound pressure level (1m) | 71 | dB |
| Rated current (LO) | 96.00 A | Power loss | 1.5 | 4 kW |
| Rated current (HO) | 85.00 A | Filter class (integrated) | Unf | iltered |
| Output | | Ambian | t condition | |
| Number of phases | 3 AC | Ambient conditions | | |
| Rated voltage | 400 V | Cooling | Air cooling | g using an integrated fan |
| Rated power IEC 400V (LO) | 55.00 kW | Cooling air requirement | 0.082 m³/ | s (2.931 ft³/s) |
| Rated power NEC 480V (LO) | 60.00 hp | Installation altitude | | |
| Rated power IEC 400V (HO) | 45.00 kW | | 1000 m (3 | 3280.84 ft) |
| Rated power NEC 480V (HO) | 50.00 hp | Ambient temperature | 20 404 | |
| Rated current (LO) | 103.00 A | Operation | | °C (-4 104 °F) |
| Rated current (HO) | 83.00 A | Transport | | °C (-40 158 °F) |
| Rated current (IN) | 103.00 A | Storage | -40 70 ° | °C (-40 158 °F) |
| Max. output current | 165.00 A | Relative humidity | | |
| Pulse frequency | 4 kHz | Max. operation | 95 % RH, d | condensation not permitted |
| Output frequency for vector control | 0 240 Hz | | | |
| | | Closed-loop c | ontrol tech | nniques |
| Output frequency for V/f control | 0 550 Hz | V/f linear / square-law / paramet | erizable | Yes |
| | | V/f with flux current control (FC | _) | 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 | | Vector control, with sensor | | No |
| 300 s cycle time | | 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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Figure similar

| Mechanical data | | Com | Figure simil | | |
|--|-----------------------------------|--------------------------------|--|--|--|
| Degree of protection IP20 / UL open type | | | | | |
| | FSE | Communication | PROFINET, EtherNet/IP | | |
| Size | | Co | nnections | | |
| Net weight | 26.50 kg (58.42 lb) | Signal cable | | | |
| Width | 275 mm (10.83 in) | Conductor cross-section | 0.15 1.50 mm² (AWG 24 AWG 16) | | |
| Height | 551 mm (21.69 in) | Line side | | | |
| Depth | 237 mm (9.33 in) | Version | screw-type terminal | | |
| Inputs / outputs | | Conductor cross-section | 25.00 70.00 mm² (AWG 4 AWG -1 | | |
| tandard digital inputs | | Motor end | | | |
| Number | 6 | Version | Screw-type terminals | | |
| Switching level: 0→1 | 11 V | Conductor cross-section | 25.00 70.00 mm² (AWG 4 AWG -1 | | |
| 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 | 25.00 70.00 mm² (AWG 4 AWG -1 | | |
| Number | 1 | Line length, max. | 10 m (32.81 ft) | | |
| Digital outputs | | PE connection | Screw-type terminals | | |
| Number as relay changeover contact | 1 | Max. motor cable length | Selew type terminuts | | |
| 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 | | | |
| 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-Volta Directive 2006/95/EC | | |
| witching threshold as digital inp | but | | | | |
| 0→1 | 4 V | | | | |
| 1→0 | 1.6 V | | | | |
| nalog outputs | | | | | |
| Number | 1 (Non-isolated output) | | | | |
| TC/ KTY interface | | | | | |
| 1 motor temperature sensor input, sensor | re that can be connected. DTC KTV | | | | |

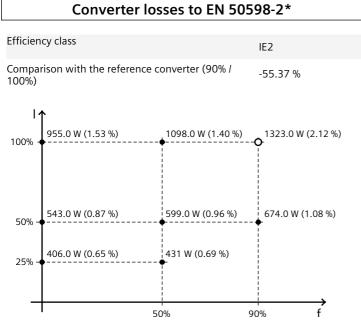
1 motor temperature sensor input, sensors that can be connected: PTC, KTY and Thermo-Click, accuracy $\pm 5~^\circ\mathrm{C}$



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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