

MLFB-Ordering data

6SL3210-1KE14-3AB1



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

Item no.: Consignment no. : Project :

| Rated da | ata | 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 dB | | |
| Rated current (LO) | 5.50 A | Power loss | 0.07 kW | | |
| Rated current (HO) | 4.50 A | Ambient conditions | | | |
| Output | | | | | |
| Number of phases | 3 AC | Cooling | Air cooling using an integrated fan | | |
| Rated voltage | 400 V | Cooling air requirement | 0.005 m³/s | | |
| Rated power (LO) | 1.50 kW | Installation altitude | 1000 m | | |
| Rated power (HO) | 1.10 kW | Ambient temperature | | | |
| Rated current (IN) | 4.30 A | Operation | -10 40 °C (14 104 °F) | | |
| Rated current (LO) | 4.10 A | Transport | -40 70 °C (-40 158 °F) | | |
| Rated current (HO) | 3.10 A | Storage | -40 70 °C (-40 158 °F) | | |
| Max. output current | 6.20 A | Relative humidity | | | |
| Pulse frequency | 4 kHz | Mary arrangation | 95 % At 40 °C (104 °F), condensation | | |
| Output frequency for vector control | 0 240 Hz | Max. operation | and icing not permissible | | |
| Output frequency for V/f control | 0 550 Hz | Closed-loop control techniques | | | |
| | | V/f linear / square-law / parame | eterizable Yes | | |
| | | V/f with flux current control (FG | CC) 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 | RS485 | | |



MLFB-Ordering data

Number

Number

Analog outputs

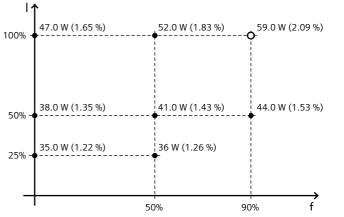
PTC/ KTY interface

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| Fi | | | | | | |
|----|--|--|--|--|--|--|

| Mechanical data | | Connections | | | |
|------------------------------------|---------------------|---|---------------------------|--|--|
| Degree of protection | IP20 / UL open type | Signal cable | | | |
| Size | FSA | Conductor cross-section | 0.15 1.50 mm² (28 16 AWG) | | |
| Net weight | 1.70 kg | Line side | | | |
| Width | 73.0 mm | Version | Plug-in screw terminals | | |
| Height | 196.0 mm | Conductor cross-section | 1.00 2.50 mm² (16 14 AWG) | | |
| Depth | 203.0 mm | Motor end | | | |
| Inputs / out | puts | Version | Plug-in screw terminals | | |
| Standard digital inputs | | Conductor cross-section | 1.00 2.50 mm² (16 14 AWG) | | |
| 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 | 1.00 2.50 mm² (16 14 AWG) | | |
| Max. inrush current | 15 mA | PE connection | On housing with M4 screw | | |
| ail-safe digital inputs | | Max. motor cable length | | | |
| Number | 1 | Shielded | 50 m | | |
| Digital outputs | | Unshielded | 100 m | | |
| Number as relay changeover contact | 1 | Converter losses to EN 50598-2* | | | |
| Output (resistive load) | DC 30 V, 0.5 A | Efficiency class | IFO. | | |
| Number as transistor | 1 | | IE2 | | |
| Output (resistive load) | DC 30 V, 0.5 A | Comparison with the reference con 100%) | overter (90% / -74.54 % | | |
| Analog / digital inputs | | - I ↑ | | | |



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.

| 1 motor temperature sensor input, sensors that can be connected: PTC, KTY and Thermo-Click, accuracy $\pm 5^{\circ}\text{C}$ | | | | |
|--|---------------------------|--|--|--|
| Standards | | | | |
| Compliance with standards | UL, cUL, CE, C-Tick (RCM) | | | |

1 (Differential input)

1 (Non-isolated output)

EMC Directive 2004/108/EC, Low-Voltage **CE** marking Directive 2006/95/EC

^{*}calculated values; increased by 10% according to the standard