

MLFB-Ordering data

6SL3210-1KE23-2AB1



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

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

| Rated data | | General teo | 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) | 40.60 A | Power loss | 0.43 kW | |
| Rated current (HO) | 36.40 A | Filter class (integrated) | Class A | |
| Output | | - | | |
| Number of phases | 3 AC | Ambient conditions | | |
| Rated voltage | 400 V | Cooling | Air cooling using an integrated fan | |
| Rated power IEC 400V (LO) | 15.00 kW | | | |
| Rated power NEC 480V (LO) | 20.00 hp | Cooling air requirement | 0.018 m³/s (0.636 ft³/s) | |
| Rated power IEC 400V (HO) | 11.00 kW | Installation altitude | 1000 m (3280.84 ft) | |
| Rated power NEC 480V (HO) | 15.00 hp | Ambient temperature | | |
| Rated current (IN) | 32.00 A | Operation | -10 40 °C (14 104 °F) | |
| Rated current (LO) | 31.00 A | Transport | -40 70 °C (-40 158 °F) | |
| Rated current (HO) | 25.00 A | Storage | -40 70 °C (-40 158 °F) | |
| Max. output current | 50.00 A | Relative humidity | | |
| Pulse frequency | 4 kHz | Max. operation | 95 % At 40 °C (104 °F), condensation and icing not permissible | |
| Output frequency for vector control | 0 240 Hz | | | |
| output frequency for vector control | 0 240 112 | Closed-loop control techniques | | |
| Output frequency for V/f control | 0 550 Hz | V/f linear / square-law / parame | eterizable Yes | |
| | | V/f with flux current control (F | CC) 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

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) | Yes |
|-------------------------------------|-----|
| 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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Figure similar

| Mechanical data | | Figure simila Communication | |
|------------------------------------|-------------------------|--------------------------------|--|
| Degree of protection | IP20 / UL open type | Communication | USS/MODBUS RTU |
| Size | FSC | Connections | |
| Net weight | 4.40 kg (9.70 lb) | Signal cable | |
| Width | 140 mm (5.51 in) | Conductor cross-section | 0.15 1.50 mm² (AWG 24 AWG 16) |
| Height | 295 mm (11.61 in) | Line side | |
| Depth | 203 mm (7.99 in) | Version | Plug-in screw terminals |
| Inputs / outputs | | Conductor cross-section | 6.00 16.00 mm² (AWG 10 AWG 6) |
| Standard digital inputs | | Motor end | |
| Number | 6 | Version | Plug-in screw terminals |
| Switching level: 0→1 | 11 V | Conductor cross-section | 6.00 16.00 mm² (AWG 10 AWG 6) |
| 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 | 6.00 16.00 mm² (AWG 10 AWG 6 |
| 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 | on nousing with we sciew |
| 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-Volta 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 $\pm 5~^\circ\mathrm{C}$



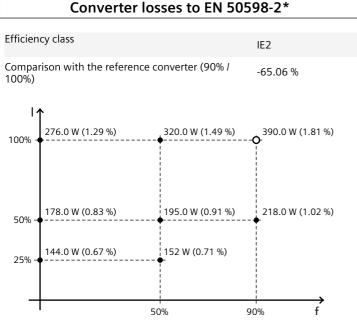


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Figure similar



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

