

MLFB-Ordering data

6SL3210-1KE18-8AP1



Figure similar

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

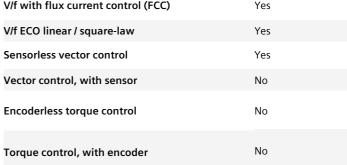
| ltem no. : |
|-------------------|
| Consignment no. : |
| Project : |

| Rated da | ita | General te | ch. 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) | 11.40 A | Power loss | 0.15 kW | | |
| Rated current (HO) | 10.60 A | Filter class (integrated) | Class A | | |
| Output | | Ambie | nt conditions | | |
| Number of phases | 3 AC | | | | |
| Rated voltage | 400 V | Cooling | Air cooling using an integrated fan | | |
| Rated power IEC 400V (LO) | 4.00 kW | Cooling oir requirement | 0.005 = 3/2 (0.177 ft 3/2) | | |
| Rated power NEC 480V (LO) | 5.00 hp | Cooling air requirement0.005 m³/s (0.177 ft³/s)Lot III structure this descent1000 (2000 04 ft) | | | |
| Rated power IEC 400V (HO) | 3.00 kW | Installation altitude 1000 m (3280.84 ft) | | | |
| Rated power NEC 480V (HO) | 4.00 hp | Ambient temperature | | | |
| Rated current (IN) | 9.00 A | Operation | -10 40 °C (14 104 °F) | | |
| Rated current (LO) | 8.80 A | Transport -40 70 °C (-40 158 °F) | | | |
| Rated current (HO) | 7.30 A | Storage | -40 70 °C (-40 158 °F) | | |
| Max. output current | 14.60 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 | | | | |
| | | Closed-loop control techniques | | | |
| Output frequency for V/f control | 0 550 Hz | V/f linear / square-law / paramo | 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 | | Vector control, with sensor | No | | |

s, ed by 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







MLFB-Ordering data

6SL3210-1KE18-8AP1



Figure similar

| Mechanical data | | Figure sim | | |
|------------------------------------|-------------------------|--------------------------------|------------------------------------|--|
| Degree of protection | IP20 / UL open type | Communication | PROFIBUS DP | |
| Size | FSA | Co | Connections | |
| Net weight | 1.70 kg (3.75 lb) | Signal cable | | |
| Width | 73 mm (2.87 in) | Conductor cross-section | 0.15 1.50 m | |
| Height | 196 mm (7.72 in) | Line side | | |
| Depth | 203 mm (7.99 in) | Version | Plug-in screw t | |
| Inputs / ou | tputs | Conductor cross-section | 1.00 2.50 m | |
| Standard digital inputs | • | Motor end | | |
| Number | 6 | Version | Plug-in screw to | |
| Switching level: 0→1 | 11 V | Conductor cross-section | 1.00 2.50 m | |
| Switching level: 1→0 | 5 V | DC link (for braking resistor) |) | |
| Max. inrush current | 15 mA | Version | Plug-in screw te | |
| ail-safe digital inputs | | Conductor cross-section | 1.00 2.50 m | |
| Number | 1 | Line length, max. | 15 m (49.21 ft) | |
| Digital outputs | | PE connection | | |
| Number as relay changeover contact | 1 | Max. motor cable length | On housing wit | |
| Output (resistive load) | DC 30 V, 0.5 A | Shielded | 50 m (164.04 f | |
| Number as transistor | 1 | Unshielded | 150 m (492.13 | |
| Output (resistive load) | DC 30 V, 0.5 A | S | tandards | |
| Analog / digital inputs | | Compliance with standards | UL, cUL, CE, C-1 | |
| Number | 1 (Differential input) | | | |
| Resolution | 10 bit | CE marking | EMC Directive 2 Directive 2006/ | |
| 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 $\pm 5~^\circ\mathrm{C}$





MLFB-Ordering data

6SL3210-1KE18-8AP1



Figure similar

Converter losses to EN 50598-2*

Efficiency class IE2 Comparison with the reference converter (90% / -65.57 % 100%) -**O**-^{134.0 W (2.20 %)} 98.0 W (1.60 %) 111.0 W (1.83 %) 100% 72.0 W (1.18 %) 78.0 W (1.28 %) 86.0 W (1.42 %) 50% 62.0 W (1.02 %) 65 W (1.06 %) 25% 50% 90% f

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

