

MLFB-Ordering data

6SL3220-2YE58-0CP0



Figure similar

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

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

| Rated da | ita | | General tech | . specifications |
|-------------------------------------|-----------|---------------|---------------------------------|--|
| Input | | | Power factor λ | 0.75 0.93 |
| Number of phases | 3 AC | | Offset factor cos φ | 0.96 |
| Line voltage | 380 480 V | / +10 % -10 % | Efficiency η | 0.98 |
| Line frequency | 47 63 Hz | | Sound pressure level (1m) | 74 dB |
| Rated voltage | 400V IEC | 480V NEC | Power loss | 7.687 kW |
| - | | | rowerioss | 7.007 KW |
| Rated current (LO) | 668.00 A | 525.00 A | Filter class (integrated) | RFI suppression filter for Category C3 |
| Rated current (HO) | 501.00 A | 402.00 A | | 5,7 |
| Output | | | EMC category (with accessories) | Category C3 |
| Number of phases | 3 AC | | | |
| Rated voltage | 400V IEC | 480V NEC | Ambient conditions | |
| Rated power (LO) | 355.00 kW | 450.00 hp | Standard board coating type | Class 3C2, according to IEC 60721-3 3: 2002 |
| Rated power (HO) | 250.00 kW | 300.00 hp | | |
| Rated current (LO) | 640.00 A | 515.00 A | Cooling | Air cooling using an integrated fan |
| Rated current (HO) | 570.00 A | 394.00 A | | |
| Rated current (IN) | 655.00 A | | Cooling air requirement | 0.362 m³/s (12.784 ft³/s) |
| Max. output current | 864.00 A | | Installation altitude | 1000 m (3280.84 ft) |
| Pulse frequency | 4 kHz | | Ambient temperature | |
| Output frequency for vector control | 0 100 Hz | | Operation | 0 45 ℃ (32 113 ℉) |
| | | | Transport | -40 70 °C (-40 158 °F) |
| Output frequency for V/f control | 0 100 Hz | | Storage | -25 55 °C (-13 131 °F) |
| | | | Relative humidity | |
| | | | Max operation | 95 % At 40 °C (104 °F), condensatio |

Overload capability

Low Overload (LO)

110% base load current IL for 60 s in a 300 s cycle time

High Overload (HO)

150% x base load current IH for 60 s within a 600 s cycle time

Max. operation

and icing not permissible



MLFB-Ordering data

6SL3220-2YE58-0CP0



| Mechanical | data | Closed-loop co | Figure similar |
|------------------------------------|-------------------------|-------------------------------------|---|
| Degree of protection | IP20 / UL open type | | |
| Size | FSH | V/f linear / square-law / parameter | rizable Yes |
| | | V/f with flux current control (FCC) | Yes |
| Net weight | 157 kg (346.13 lb) | V/f ECO linear / square-law | Yes |
| Width | 548 mm (21.57 in) | Sensorless vector control | Yes |
| Height | 1695 mm (66.73 in) | Vector control, with sensor | No |
| Depth | 393 mm (15.47 in) | Encoderless torque control | Yes |
| Inputs / out | puts | | |
| Standard digital inputs | | Torque control, with encoder | No |
| Number | 6 | Commi | inication |
| Switching level: 0→1 | 11 V | Communication | PROFIBUS DP |
| Switching level: 1→0 | 5 V | Г | |
| Max. inrush current | 15 mA | Connections | |
| Fail-safe digital inputs | | Signal cable | |
| Number | 1 | Conductor cross-section | 0.15 1.50 mm² (AWG 24 AWG 16) |
| Digital outputs | | Line side | |
| Number as relay changeover contact | 2 | Version | M12 screw |
| Output (resistive load) | DC 30 V, 5.0 A | Conductor cross-section | 240.00 mm² (MCM 2 x 500 MCM 4 x 500) |
| Number as transistor | 0 | Motor end | |
| Analog / digital inputs | | Version | M12 screw |
| Number | 2 (Differential input) | Conductor cross-section | 240.00 mm² (MCM 2 x 500 MCM 4 x 500) |
| Resolution | 10 bit | DC link (for braking resistor) | |
| Switching threshold as digital in | out | PE connection | M12 screw |
| 0→1 | 4 V | Max. motor cable length | |
| 1→0 | 1.6 V | Shielded | 150 m (492.13 ft) |
| Analog outputs | | Sinclueu | 150 m (492.15 m) |
| Number | 1 (Non-isolated output) | | |
| PTC/ KTY interface | | | |

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

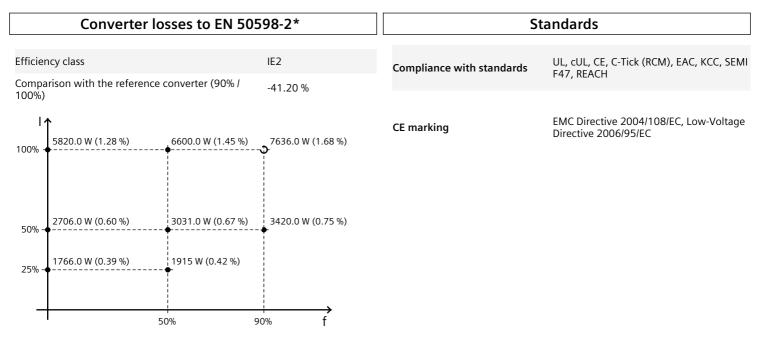


MLFB-Ordering data

6SL3220-2YE58-0CP0



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

Operator panel: Basic Operator Panel (BOP-2)

| Screen | | Ambient conditions | |
|----------------------|---------------------|-----------------------------|--------------------------|
| Display design | LCD, monochrome | Ambient temperature durin | ng |
| | | Operation | 0 50 °C (32 122 °F) |
| Mechanical data | | Storage | -40 70 °C (-40 158 °F) |
| Degree of protection | IP55 / UL type 12 | Transport | -40 70 °C (-40 158 °F) |
| Net weight | 0.14 kg (0.31 lb) | Relative humidity at 25°C d | uring |
| Width | 70.0 mm (2.76 in) | Max. operation | 95 % |
| Height | 106.85 mm (4.21 in) | | Approvals |
| Depth | 19.60 mm (0.77 in) | Certificate of suitability | CE, cULus, EAC, KCC, RCM |