

MLFB-Ordering data

6SL3220-1YE28-0AB0



Figure similar

| Client order no. : |
|--------------------|
| Order no. : |
| Offer no. : |
| Remarks · |

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

| Rated data | | | General tech. specifications | |
|-------------------------------------|-----------------------|----------|---------------------------------|---|
| put | | | Power factor λ | 0.70 0.85 |
| Number of phases | 3 AC | | Offset factor cos ϕ | 0.96 |
| Line voltage | 380 480 V +10 % -20 % | | Efficiency η | 0.98 |
| Line frequency | 47 63 Hz | | Sound pressure level (1m) | 67 dB |
| Rated voltage | 400V IEC | 480V NEC | Power loss | 0.396 kW |
| Rated current (LO) | 29.50 A | 26.00 A | Filter class (integrated) | RFI suppression filter for Category C2 |
| Rated current (HO) | 24.50 A | 21.30 A | | |
| utput | | | EMC category (with accessories) | Category C2 |
| Number of phases | 3 AC | | | |
| Rated voltage | 400V IEC | 480V NEC | Ambient conditions | |
| Rated power (LO) | 15.00 kW | 20.00 hp | Standard board coating type | Class 3C2, according to IEC 6072 3: 2002 |
| Rated power (HO) | 11.00 kW | 15.00 hp | | |
| Rated current (LO) | 32.00 A | 27.00 A | Cooling | Air cooling using an integrated fa |
| Rated current (HO) | 26.00 A | 21.00 A | | |
| Rated current (IN) | 33.00 A | | Cooling air requirement | 0.018 m³/s (0.653 ft³/s) |
| Max. output current | 43.00 A | | Installation altitude | 1000 m (3280.84 ft) |
| Pulse frequency | 4 kHz | | Ambient temperature | |
| Output frequency for vector control | 0 200 Hz | | Operation | -20 45 °C (-4 113 °F) |
| | | | Transport | -40 70 °C (-40 158 °F) |
| Dutput frequency for V/f control | 0 550 Hz | | Storage | -25 55 °C (-13 131 °F) |
| | | | Relative humidity | |
| | | | Max. operation | 95 % At 40 °C (104 °F), condensa and icing not permissible |

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



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| Mechanical data | | Figure sin | | |
|--|-------------------------|-------------------------------------|--|--|
| Degree of protection IP20 / UL open type | | | ······································ | |
| Size | FSC | V/f linear / square-law / parameter | izable Yes | |
| Net weight | 8 kg (16.89 lb) | V/f with flux current control (FCC) | Yes | |
| Width | 140 mm (5.51 in) | V/f ECO linear / square-law | Yes | |
| Height | 295 mm (11.61 in) | Sensorless vector control | Yes | |
| Depth | 218 mm (8.58 in) | Vector control, with sensor | No | |
| Inputs / outputs | | Encoderless torque control | Yes | |
| tandard digital inputs | | Torque control, with encoder | No | |
| Number | 6 | | | |
| Switching level: 0→1 | 11 V | Commu | inication | |
| Switching level: 1→0 | 5 V | Communication | USS, Modbus RTU, BACnet MS/TP | |
| Max. inrush current | 15 mA | Connections | | |
| ail-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 | screw-type terminal | |
| Output (resistive load) | DC 30 V, 5.0 A | Conductor cross-section | 1.50 16.00 mm² (AWG 16 AWG 6) | |
| Number as transistor | 0 | Motor end | | |
| Analog / digital inputs | | Version | Screw-type terminals | |
| Number | 2 (Differential input) | Conductor cross-section | 1.50 16.00 mm² (AWG 16 AWG 6) | |
| Resolution | 10 bit | DC link (for braking resistor) | (| |
| witching threshold as digital inp | out | | | |
| 0→1 | 4 V | PE connection | On housing with M4 screw | |
| 1→0 | 1.6 V | Max. motor cable length | | |
| Analog outputs | | Shielded | 150 m (492.13 ft) | |
| Number | 1 (Non-isolated output) | | | |
| PTC/ KTY interface | | | | |

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

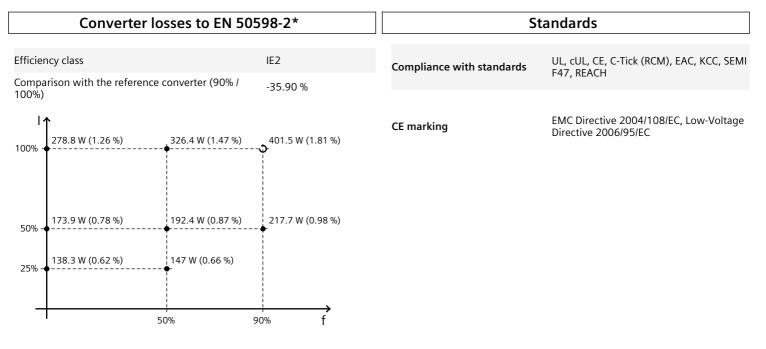


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The percentage values show the losses in relation to the rated apparent power of the converter.

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