



Figure similar

### MLFB-Ordering data

6SL3120-1TE32-0AA4

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

| Rated data  |                       | Ambient conditions                       |   |
|---|-----------------------|--|---|
| DC link voltage                                   | DC 510 ... 720 V      | Installation altitude (without derating) | 1000 m (3281 ft)  |
| Electronics power supply                          | DC 24 V -15 % / +20 % | Cooling <sup>8)</sup>                    | Internal air cooling  |
| Current demand, max.                              | 1.50 A                | Cooling air requirement                  | 0.144 m <sup>3</sup> /s   |
| DC-link current I <sub>d</sub>                    | 200.0 A               | Ambient temperature                      |   |
| Output current                                    |                       | During operation                         | 0 ... 40 °C (32 ... 104 °F)   |
| Rated value I <sub>N</sub>                        | 200.0 A               | Connections                              |   |
| Base load current I <sub>H</sub>                  | 141.0 A               | Motor end                                |   |
| For S6 duty (40%) I <sub>S6</sub>                 | 230.0 A               | Version                                  | M8 bolt (X1)  |
| I <sub>max</sub>                                  | 282.0 A               | Conductor cross-section                  | 3 ... 120 mm <sup>2</sup> (14 ... -3 AWG)   |
| Type rating <sup>2)</sup>                         |                       | PE connection                            | M8 Screw  |
| Based on I <sub>N</sub>                           | 107.0 kW              | Max. motor cable length                  |   |
| Based on I <sub>H</sub>                           | 76.0 kW               | Shielded                                 | 100 m (328 ft)  |
| Rated pulse frequency                             | 4.00 kHz              | Unshielded                               | 150 m (492 ft)  |
| Current carrying capacity                         |                       | Standards                                |   |
| DC link busbars                                   | 200 A                 | Compliance with standards                | CE, cULus   |
| 24 V busbars                                      | 20 A                  | Safety Integrated                        | SIL 2 acc. to IEC 61508, PL d acc. to EN ISO 13849-1, Category 3 acc. to EN ISO 13849-1 |
| DC link capacitance                               | 3995 μF               |  |   |
| Output frequency for servo control <sup>5)</sup>  | 0 ... 650 Hz          |  |   |
| Output frequency for V/f control <sup>6)</sup>    | 0 ... 600 Hz          |  |   |
| Output frequency for vector control <sup>7)</sup> | 0 ... 300 Hz          |  |   |



Figure similar

### Mechanical data

#### Line side

|                      |                      |
|----------------------|----------------------|
| Width                | 300.00 mm (11.81 in) |
| Height               | 380.00 mm (14.96 in) |
| Depth                | 270.00 mm (10.63 in) |
| Degree of protection | IP20 / UL open type  |
| Type of construction | Booksize             |
| Net weight           | 21.0 kg (46.30 lb)   |

### General tech. specifications

|                                     |                   |
|-------------------------------------|-------------------|
| Sound pressure level (1m)           | 73.0 dB           |
| Power loss, typ./max. <sup>9)</sup> | 2.03 kW / 2.09 kW |

2) Rated output of a typical standard asynchronous motor at 400 V 3 AC

5) With rated output current (max. output frequency 1300 Hz at a current controller cycle of 62.5 μs, pulse frequency 8 kHz, 60 % permissible output current). Observe the dependency between max. output frequency and current derating. At present, the output frequency is limited to 550 Hz, the values stated apply with the high output frequency license.

6) Observe the dependency between max. output frequency and current derating. At present, the output frequency is limited to 550 Hz, the values stated apply with the high output frequency license.

7) Observe the dependency between max. output frequency and current derating.

8) Power units with intensified air cooling thanks to integrated fan

9) Power loss of the Motor Module with rated power including losses of the 24 V DC electronics power supply