



Figure similar

MLFB-Ordering data

6SL3420-1TE15-0AA1

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 ⁸⁾ | Internal air cooling |
| Current demand, max. | 0.85 A | Cooling air requirement | 0.008 m ³ /s |
| DC-link current I _d | 6.0 A | Ambient temperature | |
| Output current | | During operation | 0 ... 40 °C (32 ... 104 °F) |
| Rated value I _N | 5.0 A | Connections | |
| Base load current I _H | 4.3 A | Motor end | |
| For S6 duty (40%) I _{S6} | 6.0 A | Version | connector (X1) with Screw-type |
| I _{max} | 15.0 A | Conductor cross-section | 0 ... 6 mm ² (24 ... 10 AWG) |
| Type rating ²⁾ | | PE connection | M5 screw |
| Based on I _N | 2.7 kW | Shield connecting kit | Integrated connection plug (X1) |
| Based on I _H | 2.3 kW | Max. motor cable length | |
| Rated pulse frequency | 8.00 kHz | Shielded | 50 m (164 ft) |
| Current carrying capacity | | Unshielded | 75 m (246 ft) |
| DC link busbars | 100 A | Standards | |
| 24 V busbars ⁴⁾ | 20 A | Compliance with standards | CE / UL |
| DC link capacitance | 110 µF | Safety Integrated | SIL 2 acc. to IEC 61508, PL d acc. to EN ISO 13849-1, Category 3 acc. to EN ISO 13849-1 |
| Output frequency for servo control ⁵⁾ | 0 ... 650 Hz | | |
| Output frequency for V/f control ⁶⁾ | 0 ... 600 Hz | | |
| Output frequency for vector control ⁷⁾ | 0 ... 300 Hz | | |



Figure similar

Mechanical data

Line side

| | |
|----------------------|----------------------|
| Width | 50.00 mm (1.97 in) |
| Height | 270.00 mm (10.63 in) |
| Depth | 226.00 mm (8.90 in) |
| Degree of protection | IP20 / UL open type |
| Type of construction | Booksize Compact |
| Net weight | 2.7 kg (5.95 lb) |

General tech. specifications

| | |
|--------------------------------|---------|
| Sound pressure level (1m) | 60.0 dB |
| Power loss, typ. ⁹⁾ | 0.10 kW |

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

4) If, when connecting several Line Modules and Motor Modules in series, the current carrying capacity exceeds 20 A, another 24 V DC connection is required using a 24 V terminal adapter (max. connectable cross-section 6 mm², max. protection 20 A).

5) 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