

MLFB-Ordering data

6SL3120-1TE21-8AC0



Client order no. :

Order no. : Offer no. :

Remarks :

ltem no. : Consignment no. : Project :

| Rated data | | Ambient conditions | |
|---|-----------------------|--|---|
| DC link voltage | DC 510 720 V | | |
| Electronics power supply | DC 24 V -15 % / +20 % | Installation altitude (without derating) | 1000 m (3281 ft) |
| Current demand, max. | 0.75 A | Cooling ⁸⁾ | Internal air cooling |
| | | | |
| DC-link current I _d ¹⁾ | 22.0 A | Cooling air requirement | 0.009 m³/s |
| Output current | | Ambient temperature | |
| Rated value I _N | 18.0 A | During operation | 0 40 °C (32 104 °F) |
| Base load current I _H | 15.3 A | Connections | |
| For S6 duty (40%) l _{s6} | 24.0 A | Motor end | |
| l _{max} | 36.0 A | Version | connector (X1) |
| Type rating ²⁾ | | Conductor cross-section | 2 6 mm² (16 10 AWG) |
| Based on _{IN} | 9.7 kW | PE connection | M5 screw |
| Based on _{IH} | 8.2 kW | re connection | MD SCIEW |
| Rated pulse frequency | 4.00 kHz | Max. motor cable length | |
| Current carrying capacity | | Shielded | 70 m (230 ft) |
| DC link busbars | 200 A | Unshielded | |
| 24 V busbars ⁴⁾ | 20 A | Unshielded | 100 m (328 ft) |
| DC link capacitance | 220 µF | Standards | |
| Output frequency for servo control ⁵⁾ | 650 Hz | Compliance with standards | CE, cULus |
| Output frequency for V/f control ⁶⁾ | 600 Hz | 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 vector control ⁷⁾ | 300 Hz | | |



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| Mechanical data | | General te | General tech. specifications | |
|----------------------|----------------------|-------------------------------------|------------------------------|--|
| Line side | | Sound pressure level (1m) | 60.0 dB | |
| Width | 50.00 mm (1.97 in) | Power loss, typ./max. ⁹⁾ | 0.14 kW / 0.19 kW | |
| 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 | 4.6 kg (10.14 lb) | | | |

1) Rated dc link current for dimensioning an external DC connection

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) 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