

MLFB-Ordering data

6SL3120-1TE21-0AD0



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

Remarks :

Item no. : Consignment no. :

Project :

| Rated data | | | |
|--|-----------------------|---|--|
| C link voltage | DC 510 720 V | | |
| Electronics power supply | DC 24 V -15 % / +20 % | Installation altitude (derating) | |
| Current demand, max. | 0.75 A | Cooling ⁸⁾ | |
| C-link current I _d 1) | 11.0 A | Cooling air requirement | |
| output current | | Ambient temperature | |
| Rated value I _N | 9.0 A | During operation | |
| Base load current I _H | 7.7 A | During operation 0 40 °C (32 104 °F) Connections | |
| For S6 duty (40%) I _{S6} | 12.0 A | Motor end | |
| I _{max} | 27.0 A | Version | |
| Гуре rating ²⁾ | | Conductor cross-section | |
| Based on _{IN} | 4.8 kW | PE connection | |
| Based on _{IH} | 4.1 kW | | |
| Rated pulse frequency | 4.00 kHz | Max. motor cable length | |
| Current carrying capacity | | Shielded | |
| DC link busbars ³⁾ | 100 A | Unshielded | |
| 24 V busbars ⁴⁾ | 20 A | | |
| DC link capacitance | 110 μF | | |
| Output frequency for servo control 5) | 650 Hz | Compliance with standard | |
| Output frequency for V/f control ⁶⁾ | 600 Hz | Safety Integrated | |
| Output frequency for vector control 7) | 300 Hz | | |



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| Mechanical data | | General tech. specifications | |
|----------------------|----------------------|------------------------------|-------------------|
| Line side | | Sound pressure level (1m) | 60.0 dB |
| Width | 50.00 mm (1.97 in) | Power loss, typ./max. 9) | 0.06 kW / 0.10 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
- 3) 200 A possible with reinforced DC link bridges (accessory).
- 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.
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- 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