SIEMENS

# Data sheet for Motor Module



Figure similar

**Article No. :** **6SL3120-2TE21-0AA4**

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

Item no. :
Consignment no. :
Project :

| Rated data | |
|---|---|
| DC link voltage | DC 510 ... 720 V |
| Electronics power supply | DC 24 V -15 % / +20 % |
| Current demand, max. | 1.15 A |
| DC-link current $I_d$ | 22.0 A |
| **Output current** | |
| Rated value $I_N$ | 2 x 9.0 A |
| Base load current $I_H$ | 2 x 7.7 A |
| For S6 duty (40%) $I_{S6}$ | 2 x 10.0 A |
| $I_{max}$ | 2 x 27.0 A |
| **Type rating** [2] | |
| Based on $_{IN}$ | 2 x 4.8 kW |
| Based on $_{IH}$ | 2 x 4.1 kW |
| **Current carrying capacity** | |
| DC link busbars | 100 A |
| 24 V busbars [4] | 20 A |
| DC link capacitance | 220 µF |

| Ambient conditions | |
|---|---|
| Installation altitude (without derating) | 1,000 m (3,281 ft) |
| Cooling [8] | Internal air cooling |
| Cooling air requirement | 0.008 m³/s |
| **Ambient temperature** | |
| During operation | 0 ... 40 °C (32 ... 104 °F) |

| Connections | |
|---|---|
| **Motor end** | |
| Version | connector (X1, X2) |
| PE connection | M5 screw |
| Shield connecting kit | Integrated connection plug (X1, X2) |
| **Max. motor cable length** | |
| Shielded | 50 m (164 ft) |
| Unshielded | 75 m (246 ft) |

| Standards | |
|---|---|
| Compliance with standards | CE, cULus |
| Safety Integrated | SIL 2 acc. to IEC 61508, PL d acc. to EN ISO 13849-1, Category 3 acc. to EN ISO 13849-1 |

| Mechanical data | |
|---|---|
| **Line side** | |
| Width | 50.00 mm (1.97 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 | 5.5 kg (12.13 lb) |

| General tech. specifications | |
|---|---|
| Sound pressure level (1m) | 60.0 dB |
| Power loss, typ./max. [9] | 0.15 kW / 0.19 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).

[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

Subject to change. Calculated values may differ from nameplate ratings. © Copyright Siemens