

Article No. : 6SL5120-1UE26-0AC0



Figure similar

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

Item no. :
Consignment no. :
Project :

| Rated data | |
|---|------------------|
| Input | |
| DC link voltage | DC 495 ... 720 V |
| DC-link current | 75.0 A |
| Output | |
| Rated power IEC | 30.0 kW |
| Rated power NEC | 40.0 hp |
| Output current | |
| Rated value I_N | 60.0 A |
| Maximum current I_{max} | 120.0 A |
| For S6 duty (40%) I_{S6} | 80.0 A |
| Rated pulse frequency | 4 kHz |
| Pulse frequency, max. | 16 kHz |
| Current carrying capacity | |
| DC link busbars ¹⁾ | 200 A |
| 24 V busbars | 20 A |
| DC link capacitance | 1,410 μ F |
| Output frequency for servo control ²⁾ | 0 ... 650 Hz |
| Output frequency for V/f control ³⁾ | 0 ... 600 Hz |
| Output frequency for vector control ⁴⁾ | 0 ... 300 Hz |

| Electronics power supply | |
|--------------------------|--|
| Voltage | 24V (20.4 ... 28.8 V) -15% / +20% |
| Power loss, typ. | 1.00 A (External 24 V power supply required) |

| General tech. specifications | |
|------------------------------|----------|
| Efficiency η | 0.98 |
| Sound pressure level (1m) | 75 dB |
| Power loss (typical) | 486.00 W |

| Inputs / outputs | |
|---------------------------------|-------------------------------|
| Fail-safe digital inputs | |
| Number | 1 (for enable pulse function) |
| Type | Type 1 and type 3 |
| Design | Optocoupler (up to 60 V) |

| Ambient conditions | |
|--|---|
| Cooling | Air cooling using an integrated fan |
| Cooling air requirement | 64 m ³ /h (0.6 ft ³ /s) |
| Installation altitude (without derating) | 1,000 m (13,123.00 ft) |
| Relative humidity | |
| Operation | 5 ... 95% |
| Transport | 5 ... 95% |
| Storage | 5 ... 95% |
| Ambient temperature | |
| Operation | -10 ... 55 °C (14 ... 131 °F) |
| Transport | -25 ... 70 °C (-13 ... 158 °F) |
| Storage | -25 ... 55 °C (-13 ... 131 °F) |

| Connections | |
|---------------------------------------|--|
| Signal cable | |
| Type | Plug-in terminal connection |
| Conductor cross-section ⁵⁾ | 0.2 ... 1.5 mm ² (23 ... 16 AWG) |
| Motor end | |
| Type | Stud terminal; M6; SW 10 or TX25 |
| Conductor cross-section ⁶⁾ | 6.0 ... 50.0 mm ² (9 ... 1/0 AWG) |
| Number of connections | 1 |
| DC link | |
| Type | Busbar connection |
| Number of connections | 2 |
| PE connection | |
| Type ⁷⁾ | Screw terminal; M6/ SW 10 or TX25 |
| Conductor cross-section | 6.00 ... 25.0 mm ² (9 ... 3 AWG) |
| Holding brake | |
| Type | X11 screw terminal; slotted screwdriver 0.5 x 3.5 mm |
| Conductor cross-section | 0.08 ... 2.5 mm ² (13 ... 28 AWG) |
| Number of connections | 1 |
| Max. motor cable length | |
| Shielded | 100 m (328.00 ft) |
| Unshielded | 150 m (492.00 ft) |

| Mechanical data | |
|-------------------------------|---------------------|
| Degree of protection | IP20 / UL open type |
| Net weight | 8.6 kg (18.96 lb) |
| Dimensions | |
| Width | 100 mm (3.94 in) |
| Depth | 270 mm (10.63 in) |
| Height | 380 mm (14.96 in) |
| Height including shield plate | 552.3 mm (21.74 in) |

| Certificates | |
|---|--|
| Certificate of suitability | CE, cULus (UL 61800-5-1, CSA 22.2 No. 274), KC, EAC, UKCA |
| Verification of suitability for fail-safety | SIL 2 according to IEC 61508 and IEC 61800-5-2, PL d according to ISO 13849-1, Category 2 according to ISO 13849-1 |

¹⁾Connection via DC link adapter (accessory)

²⁾Note the correlation between the max. output frequency, pulse frequency and current derating. The output frequency is currently limited to 550 Hz. The specified value applies to systems with supplementary license.

³⁾Observe the dependency between max. output frequency and current derating.

⁴⁾Note the correlation between the max. output frequency, pulse frequency and current derating. The output frequency is currently limited to 550 Hz. The specified value applies to systems with supplementary license.

⁵⁾0.75 mm² for flexible cables with protective collar

⁶⁾Alternatively, 2 x 4 ... 25 mm²

⁷⁾Protective conductor of the Motor Module