



Figure similar

Data sheet for Smart Line Modules Booksize

Article No. : 6SL3130-6AE15-0AB1

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

Item no. :
Consignment no. :
Project :

Electrical data

Input

| | |
|--------------------------------------|---------------|
| Number of phases | 3 AC |
| Line voltage | 342 ... 528 V |
| Line frequency | 47 ... 63 Hz |
| Short-circuit strength ¹⁾ | 65 kA |

Line power factor

| | |
|-----------------------------------|---------------|
| Fundamental power factor, minimal | .96 |
| Total | 0.65 ... 0.90 |

Overvoltage category

Class III

DC link voltage ²⁾

| | |
|----------------------------------|---------------------|
| DC-link voltage | 1.35 × line voltage |
| Electronics power supply with DC | 24 V (-15 % / 20 %) |

Connections

Line side

| | |
|-------------------------|---|
| Design | screw-type terminal (X1) |
| Conductor cross-section | 2.5 ... 6 mm ² (AWG 14 ... AWG 10) |
| PE conductor | M5 screw |
| Shield connecting kit | Cable shield connection plate integrated into the connector |

Line length, max.

| | |
|------------|---------------------|
| Shielded | 350 m (1,148.29 ft) |
| Unshielded | 560 m (1,837.27 ft) |

Mechanical data

| | |
|----------------------|---------------------|
| Degree of protection | IP20 / UL open type |
| Type of construction | Booksize |
| Net weight | 4.7 kg (10.36 lb) |

Dimensions

| | |
|--------|-------------------|
| Width | 50 mm (1.97 in) |
| Height | 380 mm (14.96 in) |
| Depth | 270 mm (10.63 in) |

Standards

| | |
|---------------------------|-----------|
| Compliance with standards | CE, cULus |
|---------------------------|-----------|

Rated data

Infeed power

| | |
|-------------|-----------------|
| Rated value | 5.0 kW (5.0 hp) |
| for S6 duty | 6.5 kW |
| Maximum | 10.0 kW |

Regenerative feedback power

| | |
|-------------|-----------------|
| Rated value | 5.0 kW (5.0 hp) |
| for S6 duty | 6.5 kW |
| Maximum | 10.0 kW |

DC-link current

| | |
|-------------|--------|
| at 540 V DC | 9.3 A |
| at 600 V DC | 8.3 A |
| for S6 duty | 11.0 A |
| Maximum | 16.6 A |

Input current

| | |
|---------------------|--------|
| at 380 V AC 3-phase | 8.6 A |
| at 400 V AC 3-phase | 8.1 A |
| at 480 V AC 3-phase | 6.7 A |
| at 400 V S6 duty | 10.6 A |
| at 400 V, maximum | 15.7 A |

| | |
|---|--------|
| Current requirement at 24 V DC, maximum | 0.80 A |
|---|--------|

Ampacity of the busbars

| | |
|---|-------|
| for electronics power supply at 24 V DC | 20 A |
| for DC-link connection | 100 A |

DC link capacitance

| | |
|------------------------------|----------|
| of the Smart Line Module | 220 µF |
| of the drive system, maximum | 6,000 µF |

General technical specifications

| | |
|----------------------|----------|
| Sound pressure level | 60 dB |
| Losses ⁴⁾ | 0.080 kW |

Ambient conditions

| | |
|----------------------------------|--|
| Ambient temperature in operation | 0 ... 40 °C (32 ... 104 °F) |
| Cooling air throughput | 0.008 m ³ /s (0.283 ft ³ /s) |
| Installation altitude | 1,000 m (3,280.84 ft) |
| Type of cooling | Internal air cooling |

RI suppression
Standard: No radio interference suppression; With line filter: Category C2 to EN 61800-3 Total cable length up to 350 m (1148 ft) (shielded)

¹⁾in conjunction with the recommended Class J fuse, or circuit breaker according to UL489 / CSA 22.2 No. 5-02

²⁾The DC link voltage is maintained at the mean value of the rectified line voltage.

⁴⁾Power loss of the Smart Line Module with rated power including losses of the 24 V DC electronics power supply