



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 <sup>1)</sup> | 65 kA         |

#### Line power factor

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

Overvoltage category Class III

#### DC link voltage<sup>2)</sup>

|                                  |                     |
|----------------------------------|---------------------|
| 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 <sup>2</sup> (AWG 14 ... AWG 10)               |
| PE conductor             | M5 screw  |
| Shield connecting kit    | Cable shield connection plate integrated into the connector |
| <b>Line length, max.</b> |   |
| 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 <sup>4)</sup> | 0.080 kW |

### Ambient conditions

|                                  |  |
|----------------------------------|--|
| Ambient temperature in operation | 0 ... 40 °C (32 ... 104 °F)                        |
| Cooling air throughput           | 0.008 m <sup>3</sup> /s (0.283 ft <sup>3</sup> /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)

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

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

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