



Figure similar

## Data sheet for Smart Line Modules Booksize

Article No. : 6SL3131-6TE21-6AA3

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 ... 10 mm <sup>2</sup> (AWG 14 ... AWG 8)
PE conductor	M5 screw
Shield connecting kit	Cable shield connection plate integrated into the connector

#### Line length, max.

Shielded	630 m (2,066.93 ft)
Unshielded	850 m (2,788.71 ft)

### Mechanical data

#### Dimensions

Width	100 mm (3.94 in)
Height	380 mm (14.96 in)
Depth <sup>3)</sup>	226 mm (8.90 in)
Degree of protection	IP20 / UL open type
Net weight	8.8 kg (19.40 lb)
Type of construction	Booksize

### Standards

Compliance with standards	CE, cULus
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### Rated data

#### Infeed power

Rated value	16.0 kW (18.0 hp)
for S6 duty	21.0 kW
Maximum	35.0 kW

#### Regenerative feedback power

Rated value	16.0 kW (18.0 hp)
for S6 duty	21.0 kW
Maximum	35.0 kW

#### DC-link current

at 540 V DC	30.0 A
at 600 V DC	27.0 A
for S6 duty	35.0 A
Maximum	59.0 A

#### Input current

at 380 V AC 3-phase	26.0 A
at 400 V AC 3-phase	25.0 A
at 480 V AC 3-phase	21.0 A
at 400 V S6 duty	33.0 A
at 400 V, maximum	54.0 A

Current requirement at 24 V DC, maximum	0.95 A
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#### 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	710 µF
of the drive system, maximum	20,000 µF

### General technical specifications

Sound pressure level	60 dB
Losses <sup>4)</sup>	0.190 kW

### Ambient conditions

Ambient temperature in operation	0 ... 40 °C (32 ... 104 °F)
Cooling air throughput	0.016 m <sup>3</sup> /s (0.565 ft <sup>3</sup> /s)
Installation altitude	1,000 m (3,280.84 ft)
Type of cooling <sup>5)</sup>	External 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)

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- <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>3)</sup>At installation level
- <sup>4)</sup>Power loss of the Smart Line Module with rated power including losses of the 24 V DC electronics power supply
- <sup>5)</sup>Power units with intensified air cooling thanks to integrated fan