

Data sheet for Smart Line Modules Booksize

Article No. : 6SL1310-6TE21-6AA4

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

Item no. :
Consignment no. :
Project :



Figure similar

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 ... 10 mm ² (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

Degree of protection	IP20 / UL open type
Type of construction	Booksize
Net weight	7.0 kg (15.43 lb)

Dimensions

Width	100 mm (3.94 in)
Height	380 mm (14.96 in)
Depth	270 mm (10.63 in)

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	29.0 A
at 400 V AC 3-phase	27.5 A
at 480 V AC 3-phase	24.5 A
at 400 V S6 duty	35.0 A
at 400 V, maximum	57.5 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 ⁴⁾	0.190 kW

Ambient conditions

Ambient temperature in operation	0 ... 40 °C (32 ... 104 °F)
Cooling air throughput	0.016 m ³ /s (0.565 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