

Data sheet for Smart Line Modules Booksize

Article No. : 6SL3131-6TE25-5AA3

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	M6 bolt (X1)
Conductor cross-section	2.5 ... 95 mm ² (AWG 14 ... AWG -2)
PE conductor	M6 screw

Line length, max.

Shielded	1,000 m (3,280.84 ft)
Unshielded	1,500 m (4,921.26 ft)

Mechanical data

Dimensions

Width	200 mm (7.87 in)
Height	380 mm (14.96 in)
Depth ³⁾	226 mm (8.90 in)
Degree of protection	IP20 / UL open type
Net weight	18.5 kg (40.79 lb)
Type of construction	Booksize

Standards

Compliance with standards CE, cULus

Rated data

Infeed power

Rated value	55.0 kW (60.0 hp)
for S6 duty	71.0 kW
Maximum	91.0 kW

Regenerative feedback power

Rated value	55.0 kW (60.0 hp)
for S6 duty	71.0 kW
Maximum	91.0 kW

DC-link current

at 540 V DC	105.0 A
at 600 V DC	92.0 A
for S6 duty	138.0 A
Maximum	178.0 A

Input current

at 380 V AC 3-phase	94.0 A
at 400 V AC 3-phase	90.0 A
at 480 V AC 3-phase	77.0 A
at 400 V S6 duty	106.0 A
at 400 V, maximum	130.0 A

Current requirement at 24 V DC, maximum 1.90 A

Ampacity of the busbars

for electronics power supply at 24 V DC	20 A
for DC-link connection	200 A

DC link capacitance

of the Smart Line Module	1,880 µF
of the drive system, maximum	20,000 µF

General technical specifications

Sound pressure level	60 dB
Losses ⁴⁾	0.665 kW

Ambient conditions

Ambient temperature in operation	0 ... 40 °C (32 ... 104 °F)
Cooling air throughput	0.044 m ³ /s (1.554 ft ³ /s)
Installation altitude	1,000 m (3,280.84 ft)
Type of cooling ⁵⁾	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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- 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.
- ³⁾At installation level
- ⁴⁾Power loss of the Smart Line Module with rated power including losses of the 24 V DC electronics power supply
- ⁵⁾Power units with intensified air cooling thanks to integrated fan