SIEMENS

Data sheet for Smart Line Modules Booksize

Article No. : 6SL3131-6TE23-6AA3



Figure similar

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	0.96
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 ... 50 mm² (AWG 14 ... AWG 1)
PE conductor	M6 screw
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	13.8 kg (30.42 lb)
Dimensions	
Width	150 mm (5.91 in)
Height	380 mm (14.96 in)
Depth [3]	226 mm (8.90 in)

Standards

Compliance with standards	CE, cULus

Rated data

Infeed power	
Rated value	36.0 kW (40.0 hp)
for S6 duty	47.0 kW
Maximum	70.0 kW
Regenerative feedback power	
Rated value	36.0 kW (40.0 hp)
for S6 duty	47.0 kW
Maximum	70.0 kW
DC-link current	
at 540 V DC	67.0 A
at 600 V DC	60.0 A
for S6 duty	79.0 A
Maximum	117.0 A
Input current	
at 380 V AC 3-phase	58.0 A
at 400 V AC 3-phase	55.0 A
at 480 V AC 3-phase	46.0 A
at 400 V S6 duty	72.0 A
at 400 V, maximum	107.0 A
Current requirement at 24 V DC, maximum	1.50 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 Line Module	1,410 µF
of the drive system, maximum	20,000 µF

General technical specifications

Sound pressure level	60 dB
Losses [4]	0.405 kW

Ambient conditions

Ambient temperature in operation	0 ... 40 °C (32 ... 104 °F)
Cooling air throughput	0.031 m³/s (1.095 ft³/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)

SIEMENS

Data sheet for Smart Line Modules Booksize

Article No. : **6SL3131-6TE23-6AA3**

[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