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Data sheet for Active Line Modules

Article No. : 6SL3131-7TE21-6AA3



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	
in Active mode	
Fundamental power factor cos phi 1 [2]	1
Total	1
in Smart Mode	
Fundamental power factor, minimal	0.96
Total	0.65 ... 0.90
Overvoltage category	Class III
DC link voltage [3]	
at 380 V ... 400 V AC, factory setting	600 V
at 400 V ... 415 V AC, factory setting	625 V
DC-link voltage	1.35 x line voltage (Smart Mode)
Electronics power supply with DC	24 V (-15 % / 20 %)

Connections

Line side	
Design	screw-type terminal (X1)
Conductor cross-section	2.50 ... 10.00 mm² (AWG 14 ... AWG 8)
PE conductor	M5 screw
Shield connecting kit	Integrated connection plug
Line length, max.	
Shielded [4]	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	8.8 kg (19.40 lb)
Dimensions	
Width	100 mm (3.94 in)
Height	380 mm (14.96 in)
Depth [5]	226 mm (8.90 in)

Rated data

Infeed power	
Rated value	16 kW (18 hp)
for S6 duty	21 kW
Maximum	35 kW
Regenerative feedback power	
Rated value	16 kW (18 hp)
for S6 duty	21 kW
Maximum	35 kW
DC-link current	
at 600 V DC	27 A
for S6 duty	35 A
Maximum	59 A
Input current	
at 380 V AC 3-phase	26 A
at 400 V AC 3-phase	25 A
at 480 V AC 3-phase	21 A
at 400 V S6 duty	32 A
at 400 V, maximum	54 A
Current requirement at 24 V DC, maximum	1.1 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 Active Line Module	710 µF
of the drive system, maximum	20,000 µF

General technical specifications

Sound pressure level	60 dB
Losses [10]	0.29 kW

Ambient conditions

Ambient temperature in operation	0 ... 40 °C (32 ... 104 °F)
Cooling air throughput	0.016 m³/s (0.565 ft³/s)
Installation altitude	1,000 m (3,280.84 ft)
Type of cooling [11]	External air cooling
RI suppression	Active Line Module + Active Interface Module: Category C3 according to EN 61800-3 up to 350 m (1148 ft) total cable length. With line filter: Category C2 according to EN 61800-3 up to 350 m (1148 ft) total cable length. Category C3 according to EN 61800-3 from 350 m to 1000 m (1148 ... 3281 ft) total cable length.

Standards

Compliance with standards	CE, cULus

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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] Factory setting can be altered by inputting a reactive current setpoint (Active Mode)

[3] In Active Mode, the DC link voltage is regulated and can be adjusted as a voltage decoupled from the line voltage. In Smart Mode, the DC link voltage is kept in proportion to the line voltage at the mean rectified line voltage value. For line voltages of 416 ... 480 V AC, Active Mode can also be selected if the connected motors are suitable for > 650 V DC.

[4] Max. cable lengths in conjunction with Active Interface Module and Basic Line Filter (Category C3 in accordance with EN 61800-3).

[5] At installation level

[10] Power loss of the Active Line Module with rated power including losses of the 24 V DC electronics power supply

[11] Power units with intensified air cooling thanks to integrated fan