SIEMENS

Data sheet for Active Line Modules

Article No.: 6SL3131-7TE31-2AA3

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





Figure simila

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 %)	
Conn	ections	
Line side		
Design	M8 bolt (X1)	
Conductor cross-section	2.50 120.00 mm² (AWG 14 AWG - 3) (Alternatively 2 x 50 mm²)	
PE conductor	M8 Screw	
Line length, max.		
Shielded	1,000 m (3,280.84 ft)	
Unshielded	1,500 m (4,921.26 ft)	
Mechar	nical data	
Degree of protection	IP20 / UL open type	
Type of construction	Booksize	
Net weight	30.7 kg (67.68 lb)	
Dimensions		
Width	300 mm (11.81 in)	
Height	380 mm (14.96 in)	
Depth ⁵⁾	226 mm (8.90 in)	
P	,,	

	ed data	
Infeed power		
Rated value	120 kW (150 hp)	
for S6 duty	145 kW	
Maximum	175 kW	
Regenerative feedback power		
Rated value	120 kW (150 hp)	
for S6 duty	145 kW	
Maximum	175 kW	
DC-link current		
at 600 V DC	200 A	
for S6 duty	244 A	
Maximum	292 A	
Input current		
at 380 V AC 3-phase	192 A	
at 400 V AC 3-phase	182 A	
at 480 V AC 3-phase	152 A	
at 400 V S6 duty	220 A	
at 400 V, maximum	267 A	
Current requirement at 24 V DC, maximum	2.5 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 Active Line Module	3,995 µF	
of the drive system, maximum	20,000 μF	
General techni	ical specifications	
Sound pressure level	75 dB	
Losses 10)	2.26 kW	
Ambient	conditions	
Ambient temperature in operation	0 40 °C (32 104 °F)	
Cooling air throughput	0.144 m³/s (5.085 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.	

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.

⁵⁾ At installation leve

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