

Data sheet for SINAMICS S220 Smart Line Module Booksize

Article No. : 6SL5130-6UE22-4AC0

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

Item no. :
Consignment no. :
Project :

Figure similar



Rated data

Input

Number of phases	3 AC
Line voltage	342 ... 528 V
Line frequency	47 ... 63 Hz
Short-circuit strength ¹⁾	100 kA
Rated current	42.8 A
Maximum current	85.5 A

DC link voltage ²⁾

DC-link voltage	495 ... 720V (typically 1.35 x line voltage)
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DC link capacitance

of the Smart Line Module	940 µF
of the drive system, maximum	20,000 µF

Output

Rated voltage	380 V	400 V	480 V
Rated power	24.0 kW	25.3 kW	30.0 kW
Maximum power	48.0 kW	50.5 kW	59.7 kW
Rated current	48.6 A		
Maximum current	97.1 A		

Ampacity of the busbars

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

Electrical data

Electronics power supply	DC 24 V (-15 % / 20 %)
Max. power consumption	0.70 A

General technical specifications

Line power factor

Fundamental power factor, minimal	.98
Total	0.65 ... 0.90
Sound pressure level	70 dB
Power loss ³⁾	0.200 kW
Overvoltage category	Class III

Ambient conditions

Ambient temperature in operation	-10 ... 40 °C (14 ... 104 °F)
Cooling air throughput	1.290 m³/s (45.556 ft³/s)
Installation altitude	1,000 m (3,280.84 ft)
Type of cooling ⁴⁾	Internal air cooling
RI suppression	Standard: No radio interference suppression; With line filter: Category C2b to EN 61800-3 Total cable length up to 750m (shielded)

Connections

Line side

Design	screw-type terminal (X1)
Conductor cross-section	6.0 ... 16 mm² (AWG 10 ... AWG 6)
PE conductor	M5 screw/ power connector
Shield connecting kit	Cable shield connection plate integrated into the housing

Line length, max.

Shielded	1,000 m (3,280.84 ft)
Unshielded	1,200 m (3,937.01 ft)

Mechanical data

Degree of protection	IP20 / UL open type
Type of construction	Booksize
Net weight	8.2 kg (18.04 lb)
Dimensions	
Width	100 mm (3.94 in)
Height	446 mm (17.56 in)
Depth	270 mm (10.63 in)

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⁾The DC link voltage is maintained at the mean value of the rectified line voltage.

³⁾Power loss of the Smart Line Module with rated power including losses of the 24 V DC electronics power supply

⁴⁾Power units with intensified air cooling thanks to integrated fan