

Data sheet for SINAMICS S210

Article No. : 6SL5310-1BB10-2CF0

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

Item no. :
Consignment no. :
Project :

Figure similar



Rated data

Input

Number of phases	1 AC
Line voltage	200 ... 240 V ±10 %
Line frequency	45 ... 66 Hz
Rated current	2.7 A
Inrush current	8.0 A

Output

Number of phases	3 AC
Rated power (at 400V)	0.20 kW
Rated current I_N	1.4 A
Max. output current	4.8 A
Pulse frequency	8 kHz
Output frequency for servo control	0 ... 550 Hz

Electronics power supply

Voltage	24 V -15 % ... +20 %
Current demand, max.	0.8 A

Communication

Communication	PROFINET
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Ambient conditions

Installation altitude	1,000 m (3,281 ft)
Cooling	convection cooling

Ambient temperature during

Operation	-10 ... 50 °C (14 ... 122 °F) Better than class 3K3, in acc. with EN 60721-3-3: 2002, without derating
Transport	-40 ... 70 °C (-40 ... 158 °F) Class 2K4, in acc. with EN 60721-3-2: 1997, in transport packaging
Storage	-25 ... 55 °C (-13 ... 131 °F) Class 1K4, in acc. with EN 60721-3-1: 1997, in product packaging

Relative humidity during

Max. operation	95 % RH, condensation not permitted
Transport, max.	95 % at 40 °C (104 °F)
Bearing, max.	95 %

Inputs / outputs

Standard digital inputs

Number	5 of which 2 for F-DI
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Fail-safe digital inputs

Number	1 Can only be used for STO/SS1-t
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Mechanical data

Mounting position	vertical wall mounting
Degree of protection	IP20 / UL open type
Frame size	FSA
Net weight	1.10 kg (2.43 lb)

Dimensions

Width	45.0 mm (1.77 in)
Height	170.0 mm (6.69 in)
Depth	172.4 mm (6.79 in)

Connections

Line side

Version	push-in spring-type terminals
Conductor cross-section	0.20 ... 2.50 mm² / 24 ... 14 AWG

Motor end

Version	push-in spring-type terminals
Conductor cross-section	0.20 ... 2.50 mm² / 24 ... 14 AWG

DC link (for braking resistor)

Version	push-in spring-type terminals
Conductor cross-section	0.20 ... 2.50 mm² / 24 ... 14 AWG
Cable length	10 m (32.81 ft)

PE connection

Version	M4 screw studs
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Max. motor cable length¹⁾

Shielded	50 m (164.04 ft)
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Standards

Compliance with standards	CE, cULus, RCM, UKCA
CE marking	Low-voltage directive 2006/95/EC
Verification of suitability for fail-safety	SIL 3 in acc. with IEC 61508 and IEC 61800-5-2, PL e in acc. with ISO 13849-1, Category 3 or Category 4 in acc. with ISO 13849-1

¹⁾ Cable length with possibility of connection an external filter