

## Data sheet for SINAMICS S210

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



Figure similar

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

Item no. :  
Consignment no. :  
Project :

### Rated data

#### Input

Number of phases	1 AC
Line voltage	200 ... 240 V ±10 %
Line frequency	45 ... 66 Hz
Rated current	1.4 A
Inrush current	8.0 A

#### Output

Number of phases	3 AC
Rated power (at 400V)	0.10 kW
Rated current $I_N$	0.8 A
Max. output current	3.1 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
---------------	----------

### 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
--------	--------------------------

#### Fail-safe digital inputs

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

### 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 mm <sup>2</sup> / 24 ... 14 AWG

#### Motor end

Version	push-in spring-type terminals
Conductor cross-section	0.20 ... 2.50 mm <sup>2</sup> / 24 ... 14 AWG

#### DC link (for braking resistor)

Version	push-in spring-type terminals
Conductor cross-section	0.20 ... 2.50 mm <sup>2</sup> / 24 ... 14 AWG
Cable length	10 m (32.81 ft)

#### PE connection

Version	M4 screw studs
---------	----------------

#### Max. motor cable length<sup>1)</sup>

Shielded	50 m (164.04 ft)
----------	------------------

### 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

<sup>1)</sup>Cable length with possibility of connection an external filter