

## Data sheet for SINAMICS S200

Article No. : 6SL5510-1BB10-2AF0



Figure similar

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

Item no. :  
Consignment no. :  
Project :

### Rated data

#### Input

Number of phases	1/3 AC
Line voltage	200 ... 240 V +10 % - %
Line frequency	45 ... 66 Hz
Rated current for 1 phase	2.0 A
Rated current for 3 phases	1.0 A
Inrush current	10.5 A

#### Output

Number of phases	3 AC
Rated power	0.20 kW
Rated current $I_N$	1.3 A
Max. output current	5.1 A
Pulse frequency	8 kHz
Output frequency	0 ... 550 Hz

### Electronics power supply

Voltage	20.4 ... 28.8 V
Current demand, max.	0.7 A

### Control Type

Communication	PROFINET
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### Ambient conditions

Cooling	natural convection
Installation altitude (without derating)	4,000 m
Installation altitude	1,000 m (3,281.00 ft)

### Ambient temperature during

Operation	0 ... 55 °C (32 ... 131 °F)
Maximum without power reduction	45 °C
Transport	-40 ... 70 °C (-40 ... 158 °F)
Storage	-40 ... 70 °C (-40 ... 158 °F)

### Relative humidity during

Max. operation	95 %
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### Inputs / outputs

#### Standard digital inputs

Number	4
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#### Fail-safe digital inputs

Number	2
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#### Rapid input digital inputs

Number	2
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#### Digital outputs

Number	2
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### Mechanical data

Degree of protection	IP20 / UL open
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Frame size	FSA
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Net weight	1.00 kg (1.98 lb)
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#### Dimensions

Width	40.0 mm (1.57 in)
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Height	170.0 mm (6.69 in)
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Depth	135.0 mm (5.31 in)
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### Connections

#### Signal cable

Version	MDR plug
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#### Line side

Version	Push-in connection
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Conductor cross-section	0.75 ... 2.50 mm <sup>2</sup> / ... AWG
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#### Motor end

Version	Push-in connection
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Conductor cross-section	0.75 ... 2.50 mm <sup>2</sup> / ... AWG
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#### DC link (for braking resistor)

Version	Push-in connection
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Conductor cross-section	0.75 ... 2.50 mm <sup>2</sup> / 19 ... 13 AWG
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Cable length	3.00 m (10)
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#### PE connection

Conductor cross-section	0.75 ... 2.50 mm <sup>2</sup>
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#### Holding brake

Version	Push-in connection
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Conductor cross-section	0.00 ... 2.00 mm <sup>2</sup> / 23 ... 16 AWG
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#### STO connection

Version	Push-in connection
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Conductor cross-section	0.00 ... 2.00 mm <sup>2</sup> / 24 ... 16 AWG
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#### encoder connection

Version	plug connector IX Typ C
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#### Max. motor cable length

Shielded	30 m
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### Certificates

#### Certificate of suitability

CE marking	EMC Directive 2014/30/EU with IEC 61800-3, Low-Voltage Directive 2014/35/EU, Machinery Directive 2006/42/EC, RoHS 2011/65/EU, WEE 2012/19/EU
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Verification of suitability for fail-safety	SIL 3 according to IEC 61508 and IEC 61800-5-2, PL e according to ISO 13849-1, Category 3 or 4 according to ISO 13849-1
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### Environmental conditions

#### Chemically active substances

Operation	Class 3C2 according to EN 60721-3-3: 2002
Transport	Class 2C2 according to IEC 60721-3-2:1997
Storage	Class 1C2 according to IEC 60721-3-1: 1997

#### Biologically active substances

Operation	Class 3B1, acc. to EN 60721-3-3: 2002, dust not permitted
Storage	Class 1B1 according to IEC 60721-3-1:1997

#### Mechanically active substances

Operation	Class 3S2 according to IEC 60721-3-3: Ed. 2.2 2002
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#### Climatic environmental conditions

Operation	Class 3K3 according to IEC 60721-3-3 Ed. 2.2: 2002
Transport	Class 2K4 according to IEC 60721-3-2:1997
Storage	Class 1K4 according to IEC 60721-3-1:1997

#### Mechanical environmental conditions

Operation	Class 3M1 according to IEC 60721-3-3 Ed. 2.2: 2002
Transport	Class 2M3 according to IEC 60721-3-2:1997
Storage	Class 1M2 according to IEC 60721-3-1:1997