

## Data sheet for SINAMICS S200

Article No. : 6SL5510-1BE12-5AF0



Figure similar

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

Item no. :  
Consignment no. :  
Project :

### Rated data

| Input                      |                         |
|----------------------------|-------------------------|
| Number of phases           | 3 AC                    |
| Line voltage               | 380 ... 480 V +10 % - % |
| Line frequency             | 45 ... 66 Hz            |
| Rated current for 3 phases | 8.0 A                   |
| Inrush current             | 15.0 A                  |
| Output                     |                         |
| Number of phases           | 3 AC                    |
| Rated power                | 2.50 kW                 |
| Rated current $I_N$        | 7.8 A                   |
| Max. output current        | 26.5 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 |
|---------------|----------|

### Ambient conditions

|  |                                     |
|--|-------------------------------------|
| Cooling                                  | Air cooling using an integrated fan |
| 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 |
|--------|---|

#### Fail-safe digital inputs

|        |   |
|--------|---|
| Number | 2 |
|--------|---|

#### Rapid input digital inputs

|        |   |
|--------|---|
| Number | 2 |
|--------|---|

#### Digital outputs

|        |   |
|--------|---|
| Number | 2 |
|--------|---|

### Mechanical data

|                      |                |
|----------------------|----------------|
| Degree of protection | IP20 / UL open |
|----------------------|----------------|

|            |     |
|------------|-----|
| Frame size | FSC |
|------------|-----|

|            |                   |
|------------|-------------------|
| Net weight | 2.00 kg (4.85 lb) |
|------------|-------------------|

#### Dimensions

|       |                   |
|-------|-------------------|
| Width | 70.0 mm (2.76 in) |
|-------|-------------------|

|        |                    |
|--------|--------------------|
| Height | 180.0 mm (7.09 in) |
|--------|--------------------|

|       |                    |
|-------|--------------------|
| Depth | 200.0 mm (7.87 in) |
|-------|--------------------|

### Connections

#### Signal cable

|         |          |
|---------|----------|
| Version | MDR plug |
|---------|----------|

#### Line side

|         |                    |
|---------|--------------------|
| Version | Push-in connection |
|---------|--------------------|

|                         |   |
|-------------------------|---|
| Conductor cross-section | 0.75 ... 2.50 mm <sup>2</sup> / ... AWG |
|-------------------------|---|

#### Motor end

|         |                    |
|---------|--------------------|
| Version | Push-in connection |
|---------|--------------------|

|                         |   |
|-------------------------|---|
| Conductor cross-section | 0.75 ... 2.50 mm <sup>2</sup> / ... AWG |
|-------------------------|---|

#### DC link (for braking resistor)

|         |                    |
|---------|--------------------|
| Version | Push-in connection |
|---------|--------------------|

|                         |   |
|-------------------------|---|
| Conductor cross-section | 0.75 ... 2.50 mm <sup>2</sup> / 19 ... 13 AWG |
|-------------------------|---|

|              |             |
|--------------|-------------|
| Cable length | 3.00 m (10) |
|--------------|-------------|

#### PE connection

|                         |                               |
|-------------------------|-------------------------------|
| Conductor cross-section | 0.75 ... 2.50 mm <sup>2</sup> |
|-------------------------|-------------------------------|

#### Holding brake

|         |                    |
|---------|--------------------|
| Version | Push-in connection |
|---------|--------------------|

|                         |   |
|-------------------------|---|
| Conductor cross-section | 0.00 ... 2.00 mm <sup>2</sup> / 23 ... 16 AWG |
|-------------------------|---|

#### STO connection

|         |                    |
|---------|--------------------|
| Version | Push-in connection |
|---------|--------------------|

|                         |   |
|-------------------------|---|
| Conductor cross-section | 0.00 ... 2.00 mm <sup>2</sup> / 24 ... 16 AWG |
|-------------------------|---|

#### encoder connection

|         |                         |
|---------|-------------------------|
| Version | plug connector IX Typ C |
|---------|-------------------------|

#### Max. motor cable length

|          |      |
|----------|------|
| Shielded | 30 m |
|----------|------|

### 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

#### 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 |
|-----------|--|

#### 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          |