

Article No. : 6SL5510-1BB10-8AF0



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 | 8.0 A |
| Rated current for 3 phases | 4.0 A |
| Inrush current | 7.6 A |

Output

| | |
|---------------------|--------------|
| Number of phases | 3 AC |
| Rated power | 0.75 kW |
| Rated current I_N | 4.4 A |
| Max. output current | 16.8 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 | 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 % |
|----------------|------|

Data sheet for SINAMICS S200

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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 (3.97 lb) |
|------------|-------------------|

Dimensions

| | |
|-------|-------------------|
| Width | 60.0 mm (2.36 in) |
|-------|-------------------|

| | |
|--------|--------------------|
| Height | 170.0 mm (6.69 in) |
|--------|--------------------|

| | |
|-------|--------------------|
| Depth | 195.0 mm (7.68 in) |
|-------|--------------------|

Connections

Signal cable

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

Line side

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

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

Motor end

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

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

DC link (for braking resistor)

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

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

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

PE connection

| | |
|-------------------------|-------------------------------|
| Conductor cross-section | 0.75 ... 2.50 mm ² |
|-------------------------|-------------------------------|

Holding brake

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

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

STO connection

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

| | |
|-------------------------|---|
| Conductor cross-section | 0.00 ... 2.00 mm ² / 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 |
|---|---|

Data sheet for SINAMICS S200

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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 |