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Data sheet for SINAMICS S200

Article No. : **6SL5510-1BE10-8AF0**

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	2.0 A
Inrush current	7.5 A

Output

Number of phases	3 AC
Rated power	0.75 kW
Rated current I_N	2.5 A
Max. output current	9.3 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 %

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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	FSB
Net weight	2.00 kg (3.97 lb)
Dimensions	
Width	60.0 mm (2.36 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 mm² / ... AWG
Motor end	
Version	Push-in connection
Conductor cross-section	0.75 ... 2.50 mm² / ... AWG
DC link (for braking resistor)	
Version	Push-in connection
Conductor cross-section	0.75 ... 2.50 mm² / 19 ... 13 AWG
Cable length	3.00 m (10)
PE connection	
Conductor cross-section	0.75 ... 2.50 mm²
Holding brake	
Version	Push-in connection
Conductor cross-section	0.00 ... 2.00 mm² / 23 ... 16 AWG
STO connection	
Version	Push-in connection
Conductor cross-section	0.00 ... 2.00 mm² / 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