SIEMENS

Data sheet for SINAMICS S210

Article No. : 6SL5310-1BE12-0DF1



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	200 ... 480 V ±10 %
Line frequency	45 ... 66 Hz
Rated current	7.5 A
Inrush current	8.6 A
Output	
Number of phases	3 AC
Rated power (at 400V)	2.00 kW
Rated power (at 240V)	1.20 kW
Rated current I_N	7.0 A
Max. output current	24.0 A
Pulse frequency	8 kHz
Output frequency for servo control	0 ... 550 Hz

Electronics power supply

Voltage	24 V -15 % ... +20 %
Current demand, max.	1.0 A

Communication

Communication	PROFINET

Ambient conditions

Installation altitude	1,000 m (3,281 ft)
Cooling	Air cooling using an integrated fan
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	FSB
Net weight	3.30 kg (7.28 lb)
Dimensions	
Width	70.0 mm (2.76 in)
Height	280.0 mm (11.00 in)
Depth	222.8 mm (8.77 in)

Connections

Line side	
Version	push-in spring-type terminals
Conductor cross-section	0.75 ... 6.00 mm² / 18 ... 10 AWG
Motor end	
Version	push-in spring-type terminals
Conductor cross-section	0.75 ... 6.00 mm² / 18 ... 10 AWG
DC link (for braking resistor)	
Version	push-in spring-type terminals
Conductor cross-section	0.75 ... 6.00 mm² / 18 ... 10 AWG
Cable length	10 m (32.81 ft)
PE connection	
Version	M4 screw studs
Max. motor cable length[1)]	
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

[1)] Cable length with possibility of connection an external filter