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Data sheet for SINAMICS S210

Figure similar

MLFB-Ordering data **6SL3210-5HB10-4UF0**

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

Item no. :
Consignment no. :
Project :

Rated data

Input

Number of phases	1 AC
Line voltage	200 ... 240 V ±10 %
Line frequency	45 ... 66 Hz
Rated current	5.0 A
Inrush current	8.0 A

Output

Number of phases	3 AC
Rated power	0.40 kW
Rated current I_N	2.4 A
Max. output current	8.7 A
Pulse frequency	8 kHz
Output frequency for servo control	0 ... 550 Hz

Electronics power supply

Voltage	24 V -15 % ... +20 %
Current demand, max.	0.8 A

Communication

Communication	PROFINET

Ambient conditions

Installation altitude	1000 m (3280.84 ft)
Cooling	convection cooling

Ambient temperature during

Operation	0 ... 50 °C (32 ... 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 %

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Figure similar

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

Mechanical data

Dimensions

Width	55.0 mm (2.17 in)
Height without shield plate	170.0 mm (6.69 in)
Depth	172.4 mm (6.79 in)
Mounting position	vertical wall mounting
Degree of protection	IP20 / UL open type
Frame size	FSB
Net weight	1.30 kg (2.87 lb)

Connections

Line side

Version	push-in spring-type terminals
Conductor cross-section	0.20 ... 2.50 mm² / 24 ... 14 AWG

Motor end

Version	push-in spring-type terminals
Conductor cross-section	0.20 ... 2.50 mm² / 24 ... 14 AWG

DC link (for braking resistor)

Version	push-in spring-type terminals
Conductor cross-section	0.20 ... 2.50 mm² / 24 ... 14 AWG
Cable length	3 m (9.84 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, KC, EAC, UKCA
CE marking	Low-voltage directive 2006/95/EC
Verification of suitability for fail-safety	SIL 2 in acc. with IEC 61508 parts 1-3 (2010) and IEC 61800-5-2 (2016), PL d in acc. with ISO 13849 part 1 (2015), Category 3 in acc. with ISO 13849 part 1 (2015)

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