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3.16 Digital input module SM 321; DI 16 x AC 120/230 V; (6ES7321-1FH00-0AA0)

Order number

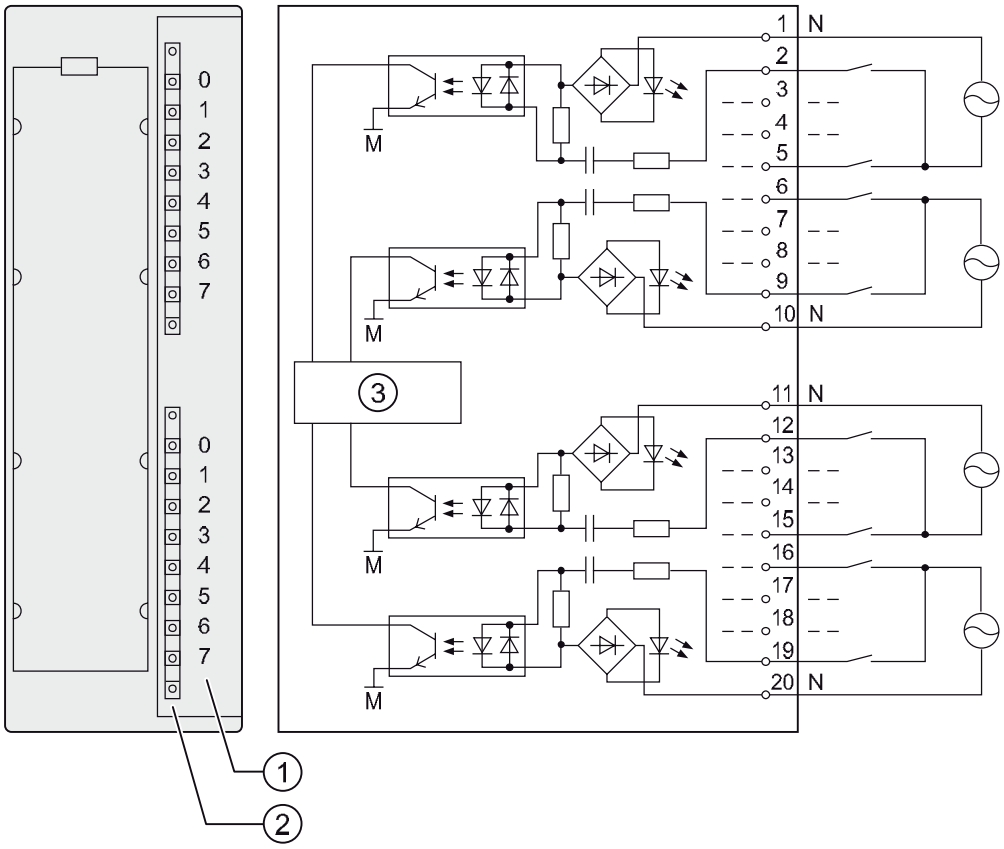
6ES7321-1FH00-0AA0

Properties

Properties of SM 321, DI 16 x AC 120/230 V:

- 16 inputs, electrically isolated in groups of 4
- Rated input voltage 120/230 VAC
- Suitable for switches and 2-/3-wire proximity switches (AC)

Wiring and block diagrams of SM 321; DI 16 x AC 120/230 V



① Channel number
② Status display - green
③ Backplane bus interface

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SM 321; DI 16 x AC 120/230 V- Technical specifications

Technical specifications	
Dimensions and weight	
Dimensions W x H x D	40 x 125 x 117
Weight	ca. 240 g
Module-specific data	
Supports isochronous mode	no
Number of inputs	16
Cable length • unshielded • shielded	 max. 600 m max. 1000 m
Voltages, currents, electrical potentials	
Rated load voltage L1 All load voltages must be connected to a common phase	120/230 V
Number of simultaneously controlled inputs	
• Horizontal mounting position to 60 °C	16
• Vertical mounting position to 40 °C	16
Electrical isolation	
• Between channels and the backplane bus	Yes
• between channels in groups of	Yes 4
Maximum potential difference	
• between $M_{internal}$ and inputs	230 VAC
• between inputs of different groups	500 VAC
Isolation test voltage	4000 VDC
Current consumption	
• from the backplane bus	max. 29 mA
Power loss of the module	typ. 4.9 W
Status, interrupts, diagnostics	
Status display	green LED per channel
Interrupts	none
Diagnostic functions	none
Sensor selection data	
Input voltage • Rated value • "1" signal • "0" signal • Frequency band	 120/230 VAC 79 V to 264 V 0 V to 40 V 47 Hz to 63 Hz

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Technical specifications	
Input current	
• "1" signal	
120 V, 60 Hz	typ. 6.5 mA
230 V, 50 Hz	typ. 16.0 mA
Input delay	
• "0" to "1" transition	max. 25 ms
• "0" to "1" transition	max. 25 ms
Input characteristics	to IEC 61131, type 1
Connection of 2-wire BEROs	supported
• Permissible quiescent current	max. 2 mA
Wiring the signal transducers	using a 20-pin front connector

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