



Figure similar

Article No. : 6SL3040-1LA01-0AA0

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

Item no. :  
Consignment no. :  
Project :

### Inputs / outputs

#### Digital inputs

Number	11
Voltage	-3 ... 30 V
Low level	-3 ... 5 V
High level	15 ... 30 V
Power consumption at 24 V DC, typ.	3.5 mA
Delay time L→H, typ. <sup>1)</sup>	50 μs
Delay time H→L, typ. <sup>1)</sup>	150 μs

#### Digital I/O

Number of bidirectional, not potential-free inputs <sup>3)</sup>	8
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#### As input

Voltage	-3 ... 30 V
Low level	-3 ... 5 V
High level	15 ... 30 V
Power consumption at 24 V DC, typ.	3.5 mA
Delay time L→H <sup>1)</sup>	5 μs
Delay time H→L <sup>1)</sup>	50 μs

#### As output

Continuous short-circuit proof	Yes
Voltage	DC 24 V
Load current per digital output, max.	500 mA
Delay time L→H, typ./ max.	150 μs / 400 μs
Delay time H→L, typ./ max.	75 μs / 100 μs

#### Analog inputs

Number <sup>4)</sup>	1
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#### As voltage input

Voltage	-10 ... 10 V
Resolution	12 bit + sign (with respect to the maximum range that can be resolved - 11 ... +11 V)
R <sub>i</sub>	>100 kΩ

#### As current input

Voltage	-20 ... 20 mA
Resolution	11 bit + sign (with respect to -22 ... 22 mA); Maximum range that can be resolved -44 ... +44 mA)
R <sub>i</sub>	>250 Ω

### Electrical data

Electronics power supply	DC 24 V (20.4 ... 28.8 V)
Max. power consumption <sup>5)</sup>	0.8 A
Power loss, max.	20 W
Protection, max.	20 A

### Communication

Communication	PROFINET, EtherNet/IP
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### On-board encoder interface

Encoder evaluation	optical incremental encoder TTL/HTL or encoder SSI without incremental signals
max. load current at 24 V encoder supply	0.35 A
max. load current at 5 V encoder supply	0.35 A
Encoder frequency, max.	300 kHz
SSI baudrate	100 ... 1,000 kBaud
SSI absolute position resolution	30 bit

#### Line length, max.

TTL encoder <sup>6)</sup>	100 m (328.08 ft)
HTL encoder unipolar signal	100 m (328.04 ft)
HTL encoder bipolar signal	300 m (984.25 ft)
SSI encoder	100 m (328.08 ft)

### Environmental conditions

Installation altitude	2,000 m (6,561.68 ft)
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#### Ambient temperature during

Operation	0 ... 55 °C (32 ... 131 °F)
Storage	-25 ... 55 °C (-13 ... 131 °F)
Transport	-40 ... 70 °C (-40 ... 158 °F)

#### Relative humidity during

Transport, max.	95 % at 40 °C (104 °F)
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## Data sheet for SINAMICS S120 control unit CU310-2 PN



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Connections	
PE connection	1 (M5 screw)
Supply voltage, max.	2.5 mm <sup>2</sup> (AWG 14)
Digital inputs, max.	1.5 mm <sup>2</sup> (AWG 16)
Digital inputs/outputs, max.	1.5 mm <sup>2</sup> (AWG 16)
DRIVE-CLiQ	1
PROFINET	2
PROFIBUS	--
RS232	--
Ethernet	1
Temperature sensor	1
24 V	1

Measuring sockets	3
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Number of slots	
Flash card	1

### Mechanical data

Net weight	0.95 kg (2.09 lb)
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### Dimensions

Width	73.0 mm (2.87 in)
Height	191.0 mm (7.52 in)
Depth	75.0 mm (2.95 in)

### Standards

Compliance with standards	CE, KC, cULus, EAC, C-Tick (RCM)
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<sup>1)</sup>The specified delay times refer to the hardware. The actual reaction time depends on the time slot in which the digital input or output is processed.

<sup>3)</sup> can be parameterized - as DI - as DO

<sup>4)</sup>The analog input can be switched between current and voltage input.

<sup>5)</sup> without taking into account digital outputs. Option slot extension, DRIVE-CLiQ supply and Power Module PM340

<sup>6)</sup>Signal cables twisted in pairs and shielded