



Figure similar

Article No. : 6SL3040-0JA01-0AA0

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

Item no. :
Consignment no. :
Project :

Inputs / outputs

Digital inputs

Number	5
Voltage	-3 ... 30 V
Low level	-3 ... 5 V
High level	15 ... 30 V
Power consumption at 24 V DC, typ.	6.0 mA
Delay time L→H, typ. ¹⁾	15 µs
Delay time H→L, typ. ¹⁾	55 µs

Fail-safe digital inputs

Number ²⁾	3
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Digital I/O

Number ³⁾	4
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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.	6.0 mA
Delay time L→H ¹⁾	5 µs
Delay time H→L ¹⁾	5 µs

As output

Continuous short-circuit proof	Yes
Voltage	DC 24 V
Load current per digital output, max.	100 mA
Delay time, approx.	150 µs

As fail-safe digital output

Number	1
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Analog inputs

Number	1
Voltage	-10 ... 10 V
Resolution	12 bit + sign
Internal resistor	15 kOhm

Electrical data

Power supply voltage	DC 24 V -15 % + 20 %
Max. power consumption ⁵⁾	0.8 A
Power loss, max.	20 W
Protection, max.	20 A

Communication

Communication	PROFINET
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On-board encoder interface

Encoder evaluation	optional incremental encoder TTL/HTL or encoder SSI without incremental signals
Current consumption at 24 V DC	0.35 A
Current consumption at 5 V DC	0.35 A
Encoder frequency, max.	500 kHz
SSI baudrate	100 ... 250 kBaud The baud rate depends on cable length
SSI absolute position resolution	30 bit

Line length, max.

TTL encoder ⁶⁾	100 m (328.08 ft)
HTL encoder unipolar signal	100 m (328.08 ft)
HTL encoder bipolar signal	300 m (984.25 ft)
SSI encoder	100 m (328.08 ft)

Environmental conditions

Installation altitude	1,000 m (3,280.84 ft)
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Ambient temperature during

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

Relative humidity during

Transport, max.	95 % at 40 °C (104 °F)
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Connections

PE connection	M5 screw
Supply voltage, max.	2.5 mm ² (AWG 14)
Digital inputs, max.	1.5 mm ² (AWG 16)
Digital inputs/outputs, max.	1.5 mm ² (AWG 16)

Mechanical data

Net weight	0.95 kg (2.09 lb)
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Dimensions

Width	73.0 mm (2.87 in)
Height	195.0 mm (7.68 in)
Depth	71.0 mm (2.80 in)

Standards

Compliance with standards	cULus
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Data sheet for SINAMICS S110 Control Unit CU305 PN

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Figure similar

¹⁾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.

²⁾3 parameterizable, fail-safe digital inputs (floating), or alternatively 6 parameterizable digital inputs (floating)

³⁾can be parameterized - as DI - as DO

⁵⁾Power requirement 0.8 A for CU305 incl. 350 mA for HTL encoder + 0.5 A for PM340

⁶⁾TTL only bipolar signals; for bipolar signals, the signal lines must be twisted in pairs and shielded