



Figure similar

MLFB-Ordering data

6SL3040-0JA01-0AA0

Client order no. :

Item no. :

Order no. :

Consignment no. :

Offer no. :

Project :

Remarks :

### 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 mA
Delay time L→H, typ. <sup>1)</sup>	15 μs
Delay time H→L, typ. <sup>1)</sup>	55 μs

#### Fail-safe digital inputs

Number <sup>2)</sup>	3
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#### Analog inputs

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

#### Digital I/O

Number <sup>3)</sup>	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 mA
Delay time L→H <sup>1)</sup>	5 μs
Delay time H→L <sup>1)</sup>	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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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



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### Electrical data

Power supply voltage	DC 24 V -15 % +20 %
Max. power consumption <sup>4)</sup>	0.8 A
Power loss, max.	20 W
Protection, max.	20 A

### 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 <sup>5)</sup>	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)

### Mechanical data

#### Dimensions

Width	73 mm (2.87 in)
Height	195 mm (7.68 in)
Depth	71 mm (2.80 in)
Net weight	0.95 kg (2.09 lb)

### Environmental conditions

Installation altitude 1000 m (3280.84 ft)

#### 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)

### Connections

**PE connection** M5 screw

**Supply voltage, max.** 2.5 mm<sup>2</sup> (AWG14)

**Digital inputs, max.** 1.5 mm<sup>2</sup> (AWG16)

**Digital inputs/outputs, max.** 1.5 mm<sup>2</sup> (AWG16)

### Communication

**Communication** PROFINET, EtherNet/IP

### Standards

**Compliance with standards** cULus

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

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