SIEMENS

Data sheet for SINAMICS S120 control unit CU310-2 DP



Figure similar

MLFB-Ordering data **6SL3040-1LA00-0AA0**

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

Item no. :
Consignment no. :
Project :

Inputs / outputs

Digital inputs

Number of potential-free inputs	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.	50 µs
Delay time H→L, typ.	150 µs

Analog inputs

Number [1)]	1

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_i	>100 kΩ

As current input

Current	-20 ... +20 mA
Resolution	11 bit + sign (with respect to -22 ... 22 mA); Maximum range that can be resolved -44 ... +44 mA)
R_i	>250 Ω

Digital I/O

Number of bidirectional, not potential-free inputs	8

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	5 µs
Delay time H→L	50 µs

As output

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

1) The analog input can be switched between current and voltage input.

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Electrical data

Electronics power supply	DC 24 V (20.4 ... 28.8 V)
Max. power consumption [2)]	0.80 A
Power loss, max.	20 W

Mechanical data

Dimensions

Width	73 mm (2.87 in)
Height	191 mm (7.52 in)
Depth	75 mm (2.95 in)
Net weight	0.95 kg (2.09 lb)

On-board encoder interface

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 ... 1000 kBaud
SSI absolute position resolution	30 bit

Line length, max.

TTL encoder	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)

Ambient conditions

Installation altitude	2000 m (6561.68 ft)

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

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

Connections

PE connection	1 (M5 screw)
DRIVE-CLiQ	1
PROFINET	- -
PROFIBUS	1
RS232	- -
Ethernet	1
Temperature sensor	1
24 V	1
Measuring sockets	3

Number of slots

Flash card	1

Communication

Communication	Profibus DP

Standards

Compliance with standards	CE, KC, cULus, EAC, C-Tick (RCM)

2) without taking into account digital outputs. Option slot extension, DRIVE-CLiQ supply and Power Module PM340