SIEMENS

Data sheet for SINAMICS \$120 control unit CU320-2 DP

Article No.: 6SL3040-1MA00-0AA0

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



Installation altitude

Inputs / outputs		
Digital inputs		
Number	12	
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. ¹)	50 μs	
Delay time $H\rightarrow L$, typ. 1)	150 μs	
Digital I/O		
Number of bidirectional, not potential-free inputs 3)	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 1)	5 μs	
Delay time H→L 1)	50 μs	
As output		
Continuous short-circuit proof	Yes	
Voltage	DC 24 V	
Load current per digital output, max.	500 mA	
Delay time L \rightarrow H, typ./ max.	150 μs / 400 μs	
Delay time $H\rightarrow L$, typ./ max.	75 μs / 100 μs	
Electrical data		
Electronics power supply	DC 24 V (20.4 28.8 V)	
Max. power consumption 5)	1.0 A	
Power loss, max.	24 W	
Protection, max.	20 A	
Communication		

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)
Connections	
PE connection	1 (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)
DRIVE-CLIQ	4
PROFINET	
PROFIBUS	1
RS232	1
Ethernet	1
Temperature sensor	
24 V	1
Measuring sockets	3
Number of slots	
Flash card	1
for option modules	1
Mechanical data	
Net weight	2.20 kg (4.85 lb)
Dimensions	
Width	50.0 mm (1.97 in)
Height	300.0 mm (11.81 in)
Depth	226.0 mm (8.90 in)

Standards

Environmental conditions

2,000 m (6,561.68 ft)

Communication

Profibus DP

Compliance with standards

CE, KC, cULus, EAC, C-Tick (RCM)

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.

 $^{^{\}rm 3)}$ can be parameterized - as DI - as DO

⁵⁾ without taking into account digital outputs. Option slot extension and DRIVE-CLiQ supply