SIEMENS

Data sheet

6ES7323-1BL00-0AA0



SIMATIC S7-300, Digital module SM 323, isolated, 16 DI and 16 DO, 24 V DC, 0.5 A, Total current 4A, 1x 40-pole

Figure similar

1 igure siiiina		
Supply voltage		
Load voltage L+		
 Rated value (DC) 	24 V	
 permissible range, lower limit (DC) 	20.4 V	
 permissible range, upper limit (DC) 	28.8 V	
Input current		
from load voltage L+ (without load), max.	80 mA	
from backplane bus 5 V DC, max.	80 mA	
Power loss		
Power loss, typ.	6.5 W	
Digital inputs		
Number of digital inputs	16	
Input characteristic curve in accordance with IEC 61131, type 1	Yes	
Number of simultaneously controllable inputs		
horizontal installation		
— up to 40 °C, max.	16	
— up to 60 °C, max.	8	
vertical installation		
— up to 40 °C, max.	16	
Input voltage		
 Type of input voltage 	DC	
 Rated value (DC) 	24 V	
• for signal "0"	-30 to +5 V	
• for signal "1"	13 to 30V	
Input current		
	7 mA	
Input delay (for rated value of input voltage)		
for standard inputs		
— at "0" to "1", min.	1.2 ms	
— at "0" to "1", max.	4.8 ms	
— at "1" to "0", min.	1.2 ms	
— at "1" to "0", max.	4.8 ms	
Cable length		
• shielded, max.	1 000 m	
• unshielded, max.	600 m	
Digital outputs		
Number of digital outputs	16	
Short-circuit protection	Yes	
Response threshold, typ.	1 A	

Limitation of industive objects we walke so the	1. (40.1)
Limitation of inductive shutdown voltage to	L+ (-48 V)
Controlling a digital input	Yes
Switching capacity of the outputs	5 W
on lamp load, max. Load registered range.	5 W
Load resistance range	49.0
lower limit	48 Ω 4 kΩ
• upper limit	4 KΩ
Output voltage	1. (0.010)
for signal "1", min. Output current	L+ (-0.8 V)
·	0.5.4
for signal "1" rated value for signal "1" parmissible range, min	0.5 A 5 mA
for signal "1" permissible range, min. for signal "1" permissible range, may	0.6 A
for signal "1" permissible range, max. for signal "1" minimum load surrent.	
for signal "1" minimum load current for signal "0" residual surrent resu	5 mA
for signal "0" residual current, max. Output delay with resisting lead.	0.5 mA
Output delay with resistive load	100
• "0" to "1", max.	100 μs
• "1" to "0", max.	500 μs
Parallel switching of two outputs	No
for uprating for redundant control of a load	No
for redundant control of a load Cuitabian fragulation	Yes; only outputs of the same group
Switching frequency	100 🗠
with resistive load, max. with industria load, max.	100 Hz
with inductive load, max.	0.5 Hz
• on lamp load, max.	100 Hz
Total current of the outputs (per group)	
horizontal installation	A A
— up to 40 °C, max.	4 A
— up to 60 °C, max.	3 A
vertical installation	2.4
— up to 40 °C, max.	2 A
Cable length	4 000
shielded, max.	1 000 m
• unshielded, max.	600 m
Encoder	
Connectable encoders	
• 2-wire sensor	Yes
— permissible quiescent current (2-wire sensor), max.	1.5 mA
Interrupts/diagnostics/status information	
Alarms	No
Diagnostics function	No
Diagnostics indication LED	
Status indicator digital input (green)	Yes
Status indicator digital output (green)	Yes
Potential separation	
Potential separation digital inputs	
between the channels	Yes
between the channels, in groups of	16
between the channels and backplane bus	Yes; Optocoupler
Potential separation digital outputs	
between the channels	Yes
between the channels, in groups of	8
between the channels and backplane bus	Yes; Optocoupler
Isolation	
Isolation tested with	500 V DC
connection method	
required front connector	40-pin
Dimensions	
Width	40 mm
Height	125 mm
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Depth	120 mm
Weights	
Weight, approx.	260 g

last modified:

1/16/2021