## **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

Supply voltage		
Load voltage L+		
<ul><li>Rated value (DC)</li></ul>	24 V	
<ul> <li>permissible range, lower limit (DC)</li> </ul>	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		
<ul> <li>Type of input voltage</li> </ul>	DC	
<ul> <li>Rated value (DC)</li> </ul>	24 V	
● for signal "0"	-30 to +5 V	
● for signal "1"	13 to 30V	
Input current		
● for signal "1", typ.	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		
<ul><li>shielded, max.</li></ul>	1 000 m	
• unshielded, max.	600 m	
Digital outputs		
Number of digital outputs	16	
Short-circuit protection	Yes	
Response threshold, typ.	1 A	

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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	40.0
lower limit     upper limit	48 Ω
• upper limit	4 kΩ
Output voltage	1. (0.0.1)
for signal "1", min.  Output current	L+ (-0.8 V)
•	0.5 A
for signal "1" rated value     for signal "1" permissible range, min	5 mA
• for signal "1" permissible range, min.	
for signal "1" permissible range, max.     for signal "1" minimum lead surrent.	0.6 A
• for signal "0" residual surrent	5 mA
for signal "0" residual current, max.	0.5 mA
Output delay with resistive load	400
• "0" to "1", max.	100 μs
• "1" to "0", max.	500 μs
Parallel switching of two outputs	Ne
• for uprating	No
for redundant control of a load  Suitabling fragularity	Yes; only outputs of the same group
Switching frequency	400 Hz
with resistive load, max.      with industrial 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	
— up to 40 °C, max.	4 A
— up to 60 °C, max.	3 A
vertical installation	
— 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	
<ul> <li>between the channels</li> </ul>	Yes
<ul> <li>between the channels, in groups of</li> </ul>	16
between the channels and backplane bus	Yes; Optocoupler
Potential separation digital outputs	
<ul> <li>between the channels</li> </ul>	Yes
<ul> <li>between the channels, in groups of</li> </ul>	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
Lleight	125 mm
Height	1-2 11111

Depth	120 mm
Weights	
Weight, approx.	260 g

last modified:

3/12/2024