## **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

P SKILLE CLE		
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	
<ul> <li>permissible range, upper limit (DC)</li> </ul>	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	
<ul> <li>Response threshold, typ.</li> </ul>	1 A	

	1. (40.10)
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 registenes range.	5 W
Load resistance range	40.0
• lower limit	48 Ω 4 kΩ
• upper limit	4 KΩ
Output voltage	1. (00)
• for signal "1", min.	L+ (-0.8 V)
Output current  • for signal "1" rated value	0.5 A
<u> </u>	5 mA
for signal "1" permissible range, min.     for signal "1" permissible range, may	
for signal "1" permissible range, max.     for signal "1" minimum load surrent.	0.6 A
• for signal "1" minimum load current	5 mA
for signal "0" residual current, max.  Output delay with registive 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	No
for redundant control of a load  Switching frequency	Yes; only outputs of the same group
Switching frequency	100 47
with resistive load, max.      with industive load, may.	100 Hz
with inductive load, max.	0.5 Hz
• on lamp load, max.	100 Hz
Total current of the outputs (per group)	
horizontal installation	4.4
— up to 40 °C, max.	4 A
— up to 60 °C, max.	3 A
vertical installation	0.4
— up to 40 °C, max.	2 A
Cable length	4 000
• shielded, max.	1 000 m
• unshielded, max.	600 m
Encoder	
Connectable encoders	N/
• 2-wire sensor	Yes
— permissible quiescent current (2-wire sensor), max.	1.5 mA
	1.0 110 (
Interrupts/diagnostics/status information	
Alarms	No
Alarms Diagnostics function	
Alarms Diagnostics function Diagnostics indication LED	No No
Alarms Diagnostics function Diagnostics indication LED  • Status indicator digital input (green)	No No Yes
Alarms Diagnostics function Diagnostics indication LED  • Status indicator digital input (green)  • Status indicator digital output (green)	No No
Alarms Diagnostics function Diagnostics indication LED  • Status indicator digital input (green)  • Status indicator digital output (green)  Potential separation	No No Yes
Alarms Diagnostics function Diagnostics indication LED  • Status indicator digital input (green) • Status indicator digital output (green)  Potential separation Potential separation digital inputs	No No Yes Yes
Alarms Diagnostics function Diagnostics indication LED  • Status indicator digital input (green)  • Status indicator digital output (green)  Potential separation  Potential separation digital inputs  • between the channels	No No Yes Yes
Alarms Diagnostics function Diagnostics indication LED  • Status indicator digital input (green)  • Status indicator digital output (green)  Potential separation  Potential separation digital inputs  • between the channels  • between the channels, in groups of	No No Yes Yes 16
Alarms Diagnostics function Diagnostics indication LED  • Status indicator digital input (green) • Status indicator digital output (green)  Potential separation  Potential separation digital inputs • between the channels • between the channels, in groups of • between the channels and backplane bus	No No Yes Yes
Alarms Diagnostics function Diagnostics indication LED  Status indicator digital input (green) Status indicator digital output (green)  Potential separation  Potential separation digital inputs  between the channels between the channels, in groups of between the channels and backplane bus  Potential separation digital outputs	No No Yes Yes Yes Yes Optocoupler
Alarms Diagnostics function Diagnostics indication LED  • Status indicator digital input (green) • Status indicator digital output (green)  Potential separation  Potential separation digital inputs • between the channels • between the channels, in groups of • between the channels and backplane bus  Potential separation digital outputs • between the channels	No No Yes Yes Yes  Yes 16 Yes; Optocoupler
Alarms Diagnostics function Diagnostics indication LED  Status indicator digital input (green) Status indicator digital output (green)  Potential separation  Potential separation digital inputs between the channels between the channels, in groups of between the channels and backplane bus  Potential separation digital outputs between the channels between the channels between the channels between the channels, in groups of	No No Yes Yes Yes  Yes 16 Yes; Optocoupler  Yes 8
Alarms Diagnostics function Diagnostics indication LED  Status indicator digital input (green) Status indicator digital output (green)  Potential separation  Potential separation digital inputs between the channels between the channels, in groups of between the channels and backplane bus  Potential separation digital outputs between the channels, in groups of between the channels between the channels between the channels between the channels and backplane bus	No No Yes Yes Yes  Yes 16 Yes; Optocoupler
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Alarms Diagnostics function Diagnostics indication LED  Status indicator digital input (green) Status indicator digital output (green)  Potential separation  Potential separation digital inputs  between the channels between the channels, in groups of between the channels and backplane bus  Potential separation digital outputs  between the channels and backplane bus  Isolation  Isolation tested with	No No Yes Yes Yes  Yes 16 Yes; Optocoupler  Yes 8
Alarms Diagnostics function Diagnostics indication LED  Status indicator digital input (green) Status indicator digital output (green)  Potential separation  Potential separation digital inputs  between the channels between the channels, in groups of between the channels and backplane bus  Potential separation digital outputs  between the channels and backplane bus	No No Yes Yes Yes  Yes 16 Yes; Optocoupler  Yes 8 Yes; Optocoupler
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Alarms Diagnostics function Diagnostics indication LED  Status indicator digital input (green) Status indicator digital output (green)  Potential separation  Potential separation digital inputs between the channels between the channels, in groups of between the channels and backplane bus  Potential separation digital outputs between the channels in groups of between the channels between the channels between the channels between the channels and backplane bus  Isolation Isolation tested with  connection method required front connector	No No Yes Yes Yes  Yes 16 Yes; Optocoupler  Yes 8 Yes; Optocoupler
Alarms Diagnostics function Diagnostics indication LED  Status indicator digital input (green) Status indicator digital output (green)  Potential separation  Potential separation digital inputs  between the channels between the channels, in groups of between the channels and backplane bus  Potential separation digital outputs  between the channels and backplane bus  Isolation Isolation tested with connection method required front connector Dimensions	No No Yes Yes Yes  Yes 16 Yes; Optocoupler  Yes 8 Yes; Optocoupler  500 V DC

Depth	120 mm
Weights	
Weight, approx.	260 g

last modified:

3/12/2024