## **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

0 3000000000000000000000000000000000000	
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	
• shielded, max.	1 000 m
• unshielded, max.	600 m
Digital outputs	
Number of digital outputs	16

Short aircuit protection	Von
Short-circuit protection	Yes
Response threshold, typ.  Limitation of industries shutdown voltage to	1 A
Limitation of inductive shutdown voltage to  Controlling a digital input	_ L+ (-48 V) Yes
Switching capacity of the outputs	res
	5 W
on lamp load, max.  Load resistance range	5 W
• lower limit	48 Ω
• upper limit	4 κΩ
Output voltage	4 KIZ
• for signal "1", min.	L+ (-0.8 V)
Output current	L. (-0.0 V)
• for signal "1" rated value	0.5 A
• for signal "1" permissible range, min.	5 mA
• for signal "1" permissible range, max.	0.6 A
• for signal "1" minimum load current	5 mA
• for signal "0" residual current, max.	0.5 mA
Output delay with resistive load	
• "0" to "1", max.	100 μs
• "1" to "0", max.	500 µs
Parallel switching of two outputs	
• for uprating	No
for redundant control of a load	Yes; only outputs of the same group
Switching frequency	
with resistive load, max.	100 Hz
<ul> <li>with inductive load, max.</li> </ul>	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	
<ul><li>shielded, max.</li></ul>	1 000 m
• unshielded, max.	600 m
Encoder	
Connectable encoders	
• 2-wire sensor	Yes
permissible quiescent current (2-wire sensor),	1.5 mA
max. Interrupts/diagnostics/status information	
	No
Alarms Diagnostics function	_ No No
Diagnostics indication LED	IVO
Status indicator digital input (green)	Yes
Status indicator digital input (green)     Status indicator digital output (green)	Yes
Potential separation	100
Potential separation digital inputs  • between the channels	Yes
<ul><li>between the channels</li><li>between the channels, in groups of</li></ul>	16
<ul> <li>between the channels and backplane bus</li> </ul>	Yes; Optocoupler
Potential separation digital outputs	ι ου, Ορισσουρία
between the channels	Yes
<ul><li>between the channels</li><li>between the channels, in groups of</li></ul>	8
between the channels and backplane bus	Yes; Optocoupler
Isolation	1 00, Ορισσουρίοι
Isolation tested with	500 V DC
connection method / header	000 ¥ DO
	40 nin
required front connector	40-pin

Dimensions	
Width	40 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	260 g

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