## **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
<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	4.000
• shielded, max.	1 000 m
• unshielded, max.	600 m
Digital outputs	
Number of digital outputs	16

Chart aircuit protection	Von
Short-circuit protection	Yes
Response threshold, typ.  Limitation of industries shutdown voltage to	1 A
Limitation of inductive shutdown voltage to	L+ (-48 V)
Controlling a digital input	Yes
Switching capacity of the outputs	F M
on lamp load, max.  Load registance range.	5 W
Load resistance range	40.0
• lower limit	48 Ω
• upper limit	4 kΩ
Output voltage	1. (00)
• for signal "1", min.	L+ (-0.8 V)
Output current	0.5.4
• for signal "1" rated value	0.5 A 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 current.	0.6 A
for signal "1" minimum load current     for signal "0" residual surrent	5 mA
• for signal "0" residual current, max.	0.5 mA
Output delay with resistive load	100 up
• "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 Hz
with resistive load, max.      with industive load, max.	100 Hz
with inductive load, max.	0.5 Hz 100 Hz
on lamp load, max.  Total surrout of the surburts (new resurb)	100 HZ
Total current of the outputs (per group)	
horizontal installation	4.0
— up to 40 °C, max.	4 A 3 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	V
• 2-wire sensor	Yes
<ul> <li>permissible quiescent current (2-wire sensor), max.</li> </ul>	1.5 mA
Interrupts/diagnostics/status information	
	No
Alarms Diagnostics function	No No
Diagnostics function	No
Diagnostics indication LED	Von
Status indicator digital output (green)     Status indicator digital output (green)	Yes
Status indicator digital output (green)	Yes
Potential separation	
Potential separation digital inputs	V
between the channels	Yes
between the channels, in groups of	16
between the channels and backplane bus	Yes; Optocoupler
Potential separation digital outputs	V
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 / header	
required front connector	40-pin

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

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