## 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

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Supply voltage		
Load voltage L+		
• Rated value (DC)	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	
• Rated value (DC)	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	

Limitation of inductive shutdown voltage to	L+ (-48 V)
Controlling a digital input	Yes
Switching capacity of the outputs	165
• on lamp load, max.	5 W
Load resistance range	5 W
lower limit	48 Ω
upper limit	4 kΩ
Output voltage	177
• for signal "1", min.	L+ (-0.8 V)
Output current	
for signal "1" rated value	0.5 A
<ul> <li>for signal "1" permissible range, min.</li> </ul>	5 mA
<ul> <li>for signal "1" permissible range, max.</li> </ul>	0.6 A
<ul> <li>for signal "1" minimum load current</li> </ul>	5 mA
<ul> <li>for signal "0" residual current, max.</li> </ul>	0.5 mA
Output delay with resistive load	0.5 mA
• "0" to "1", max.	100 μs
• 0 to 1, max. • "1" to "0", max.	
	500 µs
Parallel switching of two outputs	No
<ul> <li>for uprating</li> <li>for redundant control of a load</li> </ul>	No
	Yes; only outputs of the same group
Switching frequency	100 Hz
with resistive 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	
between the channels	Yes
<ul> <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	
between the channels	Yes
<ul> <li>between the channels, in groups of</li> </ul>	8
<ul> <li>between the channels and backplane bus</li> </ul>	Yes; Optocoupler
Isolation	
Isolation tested with	500 V DC
connection method	
required front connector	40-pin
Dimensions	
Width	40 mm
Height	125 mm

Depth	120 mm
Weights	
Weight, approx.	260 g
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