## 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

Figuresimilar	Figure	similar	
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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,	Yes
type 1	
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	
Type of input voltage	DC
<ul> <li>Rated value (DC)</li> </ul>	24 V
<ul> <li>for signal "0"</li> </ul>	-30 to +5 V
<ul> <li>for signal "1"</li> </ul>	13 to 30V
Input current	
<ul> <li>for signal "1", typ.</li> </ul>	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	
• on lamp load, max.	5 W
Load resistance range	10.0
lower limit	48 Ω
upper limit	4 kΩ
Output voltage	
• for signal "1", min.	L+ (-0.8 V)
Output current	0.5 A
• for signal "1" rated value	5 mA
• for signal "1" permissible range, min.	0.6 A
<ul> <li>for signal "1" permissible range, max.</li> <li>for signal "1" minimum load surrant.</li> </ul>	5 mA
for signal "1" minimum load current     for signal "0" racidual surrent	0.5 mA
for signal "0" residual current, max. Output delay with resistive load	0.5 IIIA
• "0" to "1", max.	100 µs
• "1" to "0", max.	500 µs
Parallel switching of two outputs	500 µs
• for uprating	No
<ul> <li>for redundant control of a load</li> </ul>	Yes; only outputs of the same group
Switching frequency	res, only outputs of the same group
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)	100 112
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
<ul> <li>shielded, max.</li> <li>unshielded, max.</li> </ul>	1 000 m 600 m
• unshielded, max.	
• unshielded, max. Encoder	
unshielded, max. Encoder Connectable encoders	600 m
unshielded, max. Encoder Connectable encoders     • 2-wire sensor	600 m Yes
unshielded, max. Encoder Connectable encoders	600 m
unshielded, max. Encoder Connectable encoders     • 2-wire sensor     — permissible quiescent current (2-wire sensor),     max.	600 m Yes
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<ul> <li>unshielded, max.</li> <li>Encoder</li> <li>Connectable encoders         <ul> <li>2-wire sensor</li> <li>permissible quiescent current (2-wire sensor), max.</li> </ul> </li> <li>Interrupts/diagnostics/status information         <ul> <li>Alarms</li> <li>Diagnostics function</li> <li>Diagnostics indication LED</li> <li>Status indicator digital input (green)</li> <li>Status indicator digital output (green)</li> </ul> </li> <li>Potential separation</li> <li>Potential separation digital inputs         <ul> <li>between the channels</li> <li>between the channels and backplane bus</li> </ul> </li> <li>Potential separation digital outputs         <ul> <li>between the channels, in groups of</li> <li>between the channels and backplane bus</li> </ul> </li> <li>Potential separation digital outputs         <ul> <li>between the channels and backplane bus</li> </ul> </li> <li>Potential separation digital outputs         <ul> <li>between the channels, in groups of</li> <li>between the channels and backplane bus</li> </ul> </li> <li>Isolation tested with         <ul> <li>connection method / header</li> <li>required front connector</li> </ul> </li></ul>	600 m Yes 1.5 mA No No Yes Yes Yes 16 Yes; Optocoupler Yes 8 Yes; Optocoupler 500 V DC
<ul> <li>unshielded, max.</li> <li>Encoder</li> <li>Connectable encoders         <ul> <li>2-wire sensor</li> <li>permissible quiescent current (2-wire sensor), max.</li> </ul> </li> <li>Interrupts/diagnostics/status information         <ul> <li>Alarms</li> <li>Diagnostics function</li> <li>Diagnostics indicator LED</li> <li>Status indicator digital input (green)</li> <li>Status indicator digital output (green)</li> <li>Status indicator digital output (green)</li> </ul> </li> <li>Potential separation</li> <li>Potential separation digital inputs         <ul> <li>between the channels</li> <li>between the channels and backplane bus</li> </ul> </li> <li>Potential separation digital outputs         <ul> <li>between the channels, in groups of</li> <li>between the channels</li> <li>between the channels</li> <li>between the channels</li> <li>between the channels</li> <li>between the channels and backplane bus</li> </ul> </li> <li>Solation     <ul> <li>Isolation</li> <li>Isolation tested with</li> <li>connection method / header</li> <li>required front connector</li> </ul> </li> </ul>	600 m Yes 1.5 mA No No Yes Yes Yes Yes 16 Yes; Optocoupler Yes 8 Yes; Optocoupler Yes 8 Yes; Optocoupler 40-pin
<ul> <li>unshielded, max.</li> <li>Encoder</li> <li>Connectable encoders         <ul> <li>2-wire sensor</li> <li>permissible quiescent current (2-wire sensor), max.</li> </ul> </li> <li>Interrupts/diagnostics/status information         <ul> <li>Alarms</li> <li>Diagnostics function</li> <li>Diagnostics indicator LED</li> <li>Status indicator digital input (green)</li> <li>Status indicator digital output (green)</li> </ul> </li> <li>Potential separation</li> <li>Potential separation digital inputs         <ul> <li>between the channels</li> <li>between the channels and backplane bus</li> </ul> </li> <li>Potential separation digital outputs         <ul> <li>between the channels, in groups of</li> <li>between the channels</li> <li>between the channels</li> <li>between the channels and backplane bus</li> </ul> </li> <li>Potential separation digital outputs         <ul> <li>between the channels, in groups of</li> <li>between the channels, in groups of</li> <li>between the channels, in groups of</li> <li>between the channels, and backplane bus</li> </ul> </li> <li>Isolation         <ul> <li>Isolation tested with</li> <li>connection method / header</li> <li>required front connector</li> <li>Dimensions</li> <li>Width</li> </ul> </li></ul>	600 m Yes 1.5 mA No No Yes Yes Yes 16 Yes 16 Yes; Optocoupler Yes 8 Yes; Optocoupler 500 V DC 40-pin 40 mm

Weights	
Weight, approx.	260 g
last modified:	1/16/2021

Pobrano z: https://sterowniki-plc.net/modul-16-wejsc-16-wyjsc-binarnych-sm323-6es7323-1bl00-0aa0-simatic-s7-300-siemens