SIEMENS

Data sheet

6ES7323-1BH01-0AA0



SIMATIC S7-300, Digital module SM 323, isolated, 8DI and 8DO, 24 V DC, 0.5 A Total current 2A, 1x 20-pole

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Supply voltage	
Supply voltage	
Load voltage L+	04.14
Rated value (DC)	24 V
• permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Input current	
from load voltage L+ (without load), max.	40 mA
from backplane bus 5 V DC, max.	40 mA
Power loss	
Power loss, typ.	3.5 W
Digital inputs	
Number of digital inputs	8
Input characteristic curve in accordance with IEC 61131, type 1	Yes
Number of simultaneously controllable inputs	
horizontal installation	
— up to 60 °C, max.	8
vertical installation	
— up to 40 °C, max.	8
Input voltage	
 Type of input voltage 	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	
• shielded, max.	1 000 m
• unshielded, max.	600 m
Digital outputs	
Number of digital outputs	8
Short-circuit protection	Yes
Response threshold, typ.	1 A
Limitation of inductive shutdown voltage to	L+ (-53 V)

	No.
Controlling a digital input	Yes
Switching capacity of the outputs	
on lamp load, max.	5 W
Load resistance range	
lower limit	48 Ω
upper limit	4 kΩ
Output voltage	
• for signal "1", min.	L+ (-0.8 V)
Output current	
 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
 with inductive load, max. 	0.5 Hz
• with inductive load (acc. to IEC 60947-5-1, DC13), max.	0.5 Hz
 on lamp load, max. 	10 Hz
Total current of the outputs (per group)	
horizontal installation	
— up to 40 °C, max.	4 A
— up to 60 °C, max.	4 A
vertical installation	
— up to 40 °C, max.	4 A
Cable length	
 shielded, max. 	1 000 m
• unshielded, max.	600 m
Encoder	
Connectable encoders	
2-wire sensor	Yes
 permissible quiescent current (2-wire sensor), max. 	2 mA
Interrupts/diagnostics/status information	
Alarms	No
Diagnostics function	No
	NO
Diagnostics indication LED Status indicator digital input (green)	Vec
	Yes
 Status indicator digital output (green) 	Voc
Potential concration	Yes
Potential separation	Yes
Potential separation digital inputs	
Potential separation digital inputs between the channels 	Yes
Potential separation digital inputs between the channels between the channels, in groups of 	Yes 8
Potential separation digital inputs between the channels between the channels, in groups of between the channels and backplane bus 	Yes
Potential separation digital inputs between the channels between the channels, in groups of between the channels and backplane bus Potential separation digital outputs	Yes 8 Yes; Optocoupler
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	Yes 8 Yes; Optocoupler Yes
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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 • between the channels and backplane bus Isolation Isolation tested with	Yes 8 Yes; Optocoupler Yes 8
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 • between the channels and backplane bus Isolation	Yes 8 Yes; Optocoupler Yes 8 Yes; Optocoupler
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 • between the channels and backplane bus Isolation Isolation tested with	Yes 8 Yes; Optocoupler Yes 8 Yes; Optocoupler
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, in groups of • between the channels • between the channels • between the channels and backplane bus Isolation Isolation tested with connection method	Yes 8 Yes; Optocoupler Yes 8 Yes; Optocoupler 500 V DC
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, in groups of • between the channels • between the channels • between the channels and backplane bus Isolation Isolation tested with connection method required front connector	Yes 8 Yes; Optocoupler Yes 8 Yes; Optocoupler 500 V DC
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, in groups of • between the channels, in groups of • between the channels and backplane bus Isolation Isolation tested with connection method required front connector Dimensions	Yes 8 Yes; Optocoupler Yes 8 Yes; Optocoupler 500 V DC 20-pin

Depth	120 mm
Weights	
Weight, approx.	220 g
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