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

Figure	similar

Supply voltage	
Load voltage L+	
 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	0
Number of digital outputs	8
Short-circuit protection	Yes 1 A
Response threshold, typ.	TA L+ (-53 V)
Limitation of inductive shutdown voltage to Controlling a digital input	L+ (-53 V) Yes
	res
Switching capacity of the outputs	E MI
on lamp load, max.	5 W
Load resistance range	40.0
lower limit	48 Ω
upper limit	4 kΩ
Output voltage	
• for signal "1", min.	L+ (-0.8 V)
Output current	0.5.4
• 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	400
• "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)	
Total current of the outputs (per group) horizontal installation	
Total current of the outputs (per group) horizontal installation — up to 40 °C, max.	4 A
Total current of the outputs (per group) horizontal installation — up to 40 °C, max. — up to 60 °C, max.	
Total current of the outputs (per group) horizontal installation — up to 40 °C, max. — up to 60 °C, max. vertical installation	4 A 4 A
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Total current of the outputs (per group) horizontal installation — up to 40 °C, max. — up to 60 °C, max. vertical installation — up to 40 °C, max. Cable length	4 A 4 A 4 A
Total current of the outputs (per group) horizontal installation — up to 40 °C, max. — up to 60 °C, max. vertical installation — up to 40 °C, max. Cable length • shielded, max.	4 A 4 A 4 A 1 000 m
Total current of the outputs (per group) horizontal installation — up to 40 °C, max. — up to 60 °C, max. vertical installation — up to 40 °C, max. Cable length	4 A 4 A 4 A
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Total current of the outputs (per group) horizontal installation — up to 40 °C, max. — up to 60 °C, max. vertical installation — up to 40 °C, max. Cable length • shielded, max. • unshielded, max. Encoder	4 A 4 A 4 A 1 000 m
Total current of the outputs (per group) horizontal installation — up to 40 °C, max. — up to 60 °C, max. vertical installation — up to 40 °C, max. Cable length • shielded, max. • unshielded, max. Encoder Connectable encoders	4 A 4 A 4 A 1 000 m 600 m
Total current of the outputs (per group) horizontal installation — up to 40 °C, max. — up to 60 °C, max. vertical installation — up to 40 °C, max. Cable length • shielded, max. • unshielded, max.	4 A 4 A 4 A 1 000 m 600 m
Total current of the outputs (per group) horizontal installation — up to 40 °C, max. — up to 60 °C, max. vertical installation — up to 40 °C, max. Cable length • shielded, max. • unshielded, max.	4 A 4 A 4 A 1 000 m 600 m
Total current of the outputs (per group) horizontal installation	4 A 4 A 4 A 1 000 m 600 m Yes 2 mA
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Total current of the outputs (per group) horizontal installation	4 A 4 A 1 000 m 600 m Yes 2 mA No No Yes Yes Yes 8
Total current of the outputs (per group) horizontal installation	4 A 4 A 4 A 1 000 m 600 m Yes 2 mA No No Yes Yes Yes
Total current of the outputs (per group) horizontal installation	4 A 4 A 4 A 1 000 m 600 m Yes 2 mA No No Yes Yes Yes Yes 8 Yes; Optocoupler
Total current of the outputs (per group) horizontal installation	4 A 4 A 4 A 1 000 m 600 m Yes 2 mA No No Yes Yes Yes Yes

 between the channels and backplane bus 	Yes; Optocoupler
Isolation	
Isolation tested with	500 V DC
Connection method	
required front connector	20-pin
Dimensions	
Width	40 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	220 g

last modified:

1/16/2021 🖸