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

1 *110.11	
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	8
Short-circuit protection	Yes
Response threshold, typ.	1 A
Limitation of inductive shutdown voltage to	L+ (-53 V)

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	ουσ μο
• for uprating	No
for redundant control of a load	Yes; only outputs of the same group
	res, only outputs of the same group
Switching frequency	400 U-
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
shielded, max.unshielded, max.	1 000 m 600 m
• unshielded, max.	
unshielded, max. Encoder	
unshielded, max. Encoder Connectable encoders 2-wire sensor	600 m Yes
unshielded, max. Encoder Connectable encoders 2-wire sensor — permissible quiescent current (2-wire sensor), max.	600 m
unshielded, max. Encoder Connectable encoders 2-wire sensor — permissible quiescent current (2-wire sensor), max. Interrupts/diagnostics/status information	Yes 2 mA
unshielded, max. Encoder Connectable encoders 2-wire sensor permissible quiescent current (2-wire sensor), max. Interrupts/diagnostics/status information Alarms	Yes 2 mA
unshielded, max. Encoder Connectable encoders 2-wire sensor permissible quiescent current (2-wire sensor), max. Interrupts/diagnostics/status information Alarms Diagnostics function	Yes 2 mA
unshielded, max. Encoder Connectable encoders 2-wire sensor permissible quiescent current (2-wire sensor), max. Interrupts/diagnostics/status information Alarms Diagnostics function Diagnostics indication LED	Yes 2 mA No No
unshielded, max. Encoder Connectable encoders 2-wire sensor permissible quiescent current (2-wire sensor), max. Interrupts/diagnostics/status information Alarms Diagnostics function Diagnostics indication LED Status indicator digital input (green)	Yes 2 mA No No Yes
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Depth	120 mm
Weights	
Weight, approx.	220 g

last modified:

8/16/2023