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		
	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	0.5 IIIA
• "0" to "1", max.	100 μs
• "1" to "0", max.	500 μs
Parallel switching of two outputs	Ai-
• 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)	10112
horizontal installation	
— up to 40 °C, max.	4 A
— up to 40 °C, max.	4 A
vertical installation	4 A
	4 A
— up to 40 °C, max.	4 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. 	2 mA
Interrupts/diagnostics/status information	
Alarms	No
Diagnostics function	No
Diagnostics indication LED	INO
-	Von
Status indicator digital input (green) Status indicator digital output (green)	Yes
Status indicator digital output (green)	Yes
Potential separation	
Potential separation digital inputs	
 between the channels 	Yes
 between the channels, in groups of 	8
between the channels and backplane bus	Yes; Optocoupler
Potential separation digital outputs	
 between the channels 	Yes
 between the channels, in groups of 	8

 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