SIEMENS

Data sheet

6ES7322-1BH10-0AA0



SIMATIC S7-300, Digital output SM 322 High Speed, isolated, 16 DO, 24 V DC, 0.5A, 1x 20-pole

Figure similar

i igure sinina		
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.	110 mA	
from backplane bus 5 V DC, max.	70 mA	
Power loss		
Power loss, typ.	5 W	
Digital outputs		
Number of digital outputs	16	
Short-circuit protection	Yes; Electronic	
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 for 0 to 40 °C, min. 	5 mA	
 for signal "1" permissible range for 0 to 40 °C, max. 	0.6 A	
 for signal "1" permissible range for 40 to 60 °C, min. 	5 mA	
 for signal "1" permissible range for 40 to 60 °C, 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.	200 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. 	1 000 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.	3 A
vertical installation	
— up to 40 °C, max.	2 A
Cable length	
• shielded, max.	1 000 m
unshielded, max.	600 m
Interrupts/diagnostics/status information	
Alarms	No
Diagnostics function	No
Alarms	
Diagnostic alarm	No
Diagnoses	
Wire-break	No
Short-circuit	No
• Fuse blown	No
missing load voltage	No
Diagnostics indication LED	
 Rated load voltage PWR (green) 	No
 Fuse OK FSG (green) 	No
 Status indicator digital output (green) 	Yes; per channel
Potential separation	
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.	200 g

last modified:

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