SIEMENS

Data sheet

6ES7322-1BH01-0AA0



SIMATIC S7-300, Digital output SM 322, isolated, 16 DO, 24 V DC, 0.5A, 1x 20-pole, Total current 4 A/group (8 A/module)

Figure simila

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.	80 mA	
from backplane bus 5 V DC, max.	80 mA	
Power loss		
Power loss, typ.	4.9 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.	500 μs	
Parallel switching of two outputs		
for uprating	No	

• for redundant control of a load	Yes	
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.	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	Diagnostics indication LED	
 Rated load voltage PWR (green) 	No	
Fuse OK FSG (green)	No	
 Status indicator digital output (green) 	Yes	
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.	190 g	
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