SIEMENS

Data sheet

6ES7322-1BF01-0AA0



SIMATIC S7-300, Digital output SM 322, isolated, 8 DO, 24 V DC, 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.	60 mA	
from backplane bus 5 V DC, max.	40 mA	
Power loss		
Power loss, typ.	6.8 W	
Digital outputs		
Number of digital outputs	8	
Short-circuit protection	Yes; Electronic	
Response threshold, typ.	3 A	
Limitation of inductive shutdown voltage to	L+ (-48 V)	
Controlling a digital input	Yes	
Switching capacity of the outputs		
 on lamp load, max. 	10 W	
Load resistance range		
lower limit	12 Ω	
upper limit	4 kΩ	
Output voltage		
● for signal "1", min.	L+ (-0.8 V)	
Output current		
 for signal "1" rated value 	2 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. 	2.4 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. 	2.4 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.	4 A
vertical installation	
— up to 40 °C, max.	4 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 	4
 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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