SIEMENS

Data sheet

6ES7322-8BF00-0AB0



SIMATIC S7-300, Digital output SM 322, isolated, 8 DO, 24 V DC, 0.5A (1x 8 DO), Short-circuit protection diagnostics, 1x 20-pole

Figure similar	
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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.	90 mA	
from backplane bus 5 V DC, max.	70 mA	
Power loss		
Power loss, typ.	5 W	
Digital outputs		
Number of digital outputs	8	
Short-circuit protection	Yes; Electronic	
Response threshold, typ.	0.75 to 1.5 A	
Limitation of inductive shutdown voltage to	L+ (-45 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	3 kΩ	
Output voltage		
● for signal "1", min.	L+ (-0.8 to -1.6 V)	
Output current		
 for signal "1" rated value 	0.5 A	
 for signal "1" permissible range for 0 to 40 °C, min. 	10 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. 	10 mA	
 for signal "1" permissible range for 40 to 60 °C, max. 	0.6 A	
 for signal "1" minimum load current 	10 mA	
 for signal "0" residual current, max. 	0.5 mA	
Output delay with resistive load		
• "0" to "1", max.	180 µs	
• "1" to "0", max.	245 µs	
Parallel switching of two outputs		
 for uprating 	No	
 for redundant control of a load 	Outputs with series diodes only	

Cuttohing froquency	
Switching frequency	400.11
• with resistive load, max.	100 Hz
with inductive load, max.	2 Hz
 with inductive load (acc. to IEC 60947-5-1, DC13), max. 	2 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.	4 A
Cable length	
 shielded, max. 	1 000 m
 unshielded, max. 	600 m
Interrupts/diagnostics/status information	
Diagnostics function	Yes; Parameterizable
Alarms	
 Diagnostic alarm 	Yes; Parameterizable
Diagnoses	
 Diagnostic information readable 	Yes
Wire-break	Yes
Short-circuit	Yes
Fuse blown	No
 missing load voltage 	Yes
Diagnostics indication LED	
 Rated load voltage PWR (green) 	No
 Fuse OK FSG (green) 	No
 Group error SF (red) 	Yes
 Status indicator digital output (green) 	Yes; per channel
Channel fault indicator F (red)	Yes
Potential separation	
Potential separation digital outputs	
 between the channels, in groups of 	8
 between the channels and backplane bus 	Yes; Optocoupler
Isolation	
Isolation tested with	500 V DC
connection method / header	
required front connector	20-pin
Dimensions	
Width	40 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	210 g
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