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

i igure siiinia		
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	
Switching frequency		
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	
required front connector	20-pin
Dimensions	
Width	40 mm
Height	125 mm
Depth	120 mm
Weights	120 (1)(1)
	210 a
Weight, approx.	210 g

last modified: 1/16/2021 🖸