6ES7322-1BL00-0AA0

Data sheet



SIMATIC S7-300, Digital output SM 322, isolated, 32 DO, 24 V DC, 0.5A, 1x 40-pole, Total current 4 A/group (16 A/module)

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.	160 mA	
from backplane bus 5 V DC, max.	110 mA	
Power loss		
Power loss, typ.	6.6 W	
Digital outputs		
Number of digital outputs	32	
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	

0.711.	
Switching frequency	400.11
with resistive load, max.	100 Hz
with inductive load, max. with inductive load (ass. to IEC 60047 5.1, DC12).	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)	10112
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	
Diagnostic information readable	No
Wire-break	No
Short-circuit	No
missing load voltage	No
Diagnostics indication LED	
Rated load voltage PWR (green)	No
Fuse OK FSG (green)	No
 Group error SF (red) 	No
 Status indicator digital output (green) 	Yes; per channel
 Channel fault indicator F (red) 	No
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	40-pin
Dimensions	
Width	40 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	260 g
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last modified: 12/16/2020 🖸