

SIMATIC S7-300 digital output SM 322, Isolated in groups of 16, 64DO, 24 V DC, 0.3A source output Total current 2 A/group, 8 A/module Terminal blocks 6ES7392-1.N00-0AA0 and cable 6ES7392-4...0-0AA0 required



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.	75 mA
from backplane bus 5 V DC, max.	100 mA
Power loss	
Power loss, typ.	6 W
Digital outputs	
Number of digital outputs	64
Short-circuit protection	Yes; Electronic
Limitation of inductive shutdown voltage to	M+ (45 V)
Controlling a digital input	Yes
Switching capacity of the outputs	
• on lamp load, max.	5 W
Load resistance range	

• lower limit	80 Ω
• upper limit	10 kΩ
<b>Output voltage</b>	
• for signal "1", min.	M+ (0.5 V)
<b>Output current</b>	
• for signal "1" rated value	0.3 A
• for signal "1" permissible range, min.	2.4 mA
• for signal "1" permissible range, max.	0.36 A
<b>Output delay with resistive load</b>	
• "0" to "1", max.	450 μs
• "1" to "0", max.	450 μs
<b>Parallel switching of two outputs</b>	
• for uprating	No
• for redundant control of a load	Yes
<b>Switching frequency</b>	
• with resistive load, max.	100 Hz
• with inductive load, max.	0.5 Hz
• on lamp load, max.	10 Hz
<b>Total current of the outputs (per group)</b>	
horizontal installation	
— up to 40 °C, max.	1.6 A
— up to 60 °C, max.	1.2 A
vertical installation	
— up to 40 °C, max.	1.6 A
<b>Cable length</b>	
• shielded, max.	1 000 m
• unshielded, max.	600 m
<b>Interrupts/diagnostics/status information</b>	
Alarms	No
Diagnostics function	No
<b>Alarms</b>	
• Diagnostic alarm	No
<b>Diagnoses</b>	
• Diagnostic information readable	No
• Wire-break	No
• Short-circuit	No
• Fuse blown	No
• missing load voltage	No
<b>Diagnostics indication LED</b>	
• Rated load voltage PWR (green)	No
• Fuse OK FSG (green)	No

- Group error SF (red) No
- Status indicator digital output (green) Yes
- Channel fault indicator F (red) No

### Potential separation

#### Potential separation digital outputs

- between the channels No
- between the channels, in groups of 16
- between the channels and backplane bus Yes; Optocoupler

### Isolation

Isolation tested with 500 V DC

### Connection method

required front connector Cable: 6ES7392-4Bxx0-0AA0 terminal blocks: 6ES7392-1xN00-0AA0

### Dimensions

Width 40 mm  
 Height 125 mm  
 Depth 112 mm

### Weights

Weight, approx. 230 g

**last modified:** 10/09/2020