

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

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
Limitation of inductive shutdown voltage to	L+ (-45 V)
Switching capacity of the outputs	
• on lamp load, max.	5 W
Load resistance range	

• lower limit	48 Ω
• upper limit	3 kΩ
<b>Output voltage</b>	
• for signal "1", min.	L+ (-0.8 to -1.6 V)
<b>Output current</b>	
• for signal "1" rated value	0.5 A
• for signal "1" minimum load current	10 mA
• for signal "0" residual current, max.	0.5 mA
<b>Switching frequency</b>	
• with resistive load, max.	100 Hz
• with inductive load, max.	2 Hz
• on lamp load, max.	10 Hz
<b>Total current of the outputs (per group)</b>	
<b>horizontal installation</b>	
— up to 40 °C, max.	4 A
— up to 60 °C, max.	3 A
<b>vertical installation</b>	
— up to 40 °C, max.	4 A
<b>Cable length</b>	
• shielded, max.	1 000 m
• unshielded, max.	600 m
<b>Interrupts/diagnostics/status information</b>	
Diagnostics function	Yes; Parameterizable
<b>Alarms</b>	
• Diagnostic alarm	Yes; Parameterizable
<b>Diagnostic messages</b>	
• Wire-break	Yes
• Short-circuit	Yes
• Fuse blown	No
• missing load voltage	Yes
<b>Diagnostics indication LED</b>	
• 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
<b>Potential separation</b>	
<b>Potential separation digital outputs</b>	
• 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

Weight, approx.	210 g
-----------------	-------

<b>last modified:</b>	08/30/2019
-----------------------	------------