

SIMATIC S7-300, Digital output SM 322, isolated, 32 DO, 120 V/230 V AC, 1 A, double-width, 2x 20-pole



Figure similar

### Supply voltage

#### Load voltage L1

• Rated value (AC)	120 V; 120/230 V AC
• permissible range, lower limit (AC)	79 V
• permissible range, upper limit (AC)	264 V

### Input current

from load voltage L1 (without load), max.	10 mA
from backplane bus 5 V DC, max.	190 mA

### Power loss

Power loss, typ.	25 W
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### Digital outputs

Number of digital outputs	32
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#### Switching capacity of the outputs

• on lamp load, max.	50 W
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#### Output voltage

• for signal "1", min.	L1 (-0.8 V)
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<b>Output current</b>	
• for signal "1" rated value	1 A
• for signal "1" minimum load current	10 mA
• for signal "1" permissible surge current, max.	10 A; per group (for 2 AC cycles)
• for signal "0" residual current, max.	2 mA
<b>Switching frequency</b>	
• with resistive load, max.	10 Hz
• with inductive load, max.	0.5 Hz
• on lamp load, max.	1 Hz
<b>Total current of the outputs (per group)</b>	
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
<b>Cable length</b>	
• shielded, max.	1 000 m
• unshielded, max.	600 m
<b>Interrupts/diagnostics/status information</b>	
Diagnostic functions	Yes; Fuse blown or load voltage missing
Alarms	
• Diagnostic alarm	No
Diagnostics indication LED	
• Group error SF (red)	Yes
• Status indicator digital output (green)	Yes; per channel
<b>Potential separation</b>	
Potential separation digital outputs	
• between the channels	Yes
• between the channels, in groups of	8
• between the channels and backplane bus	Yes; Optocoupler
<b>Isolation</b>	
Isolation tested with	4 000 V DC
<b>Connection method</b>	
required front connector	20-pin
<b>Dimensions</b>	
Width	80 mm
Height	125 mm
Depth	117 mm
<b>Weights</b>	
Weight, approx.	500 g

**last modified:**

08/13/2018