

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



### 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 |
|------------------|------|

### Digital outputs

- |                                   |      |
|-----------------------------------|------|
| Number of digital outputs         | 32   |
| Switching capacity of the outputs |      |
| • on lamp load, max.              | 50 W |

### Output voltage

- |                        |             |
|------------------------|-------------|
| • for signal "1", min. | L1 (-0.8 V) |
|------------------------|-------------|

Output current	
• 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
Switching frequency	
• with resistive load, max.	10 Hz
• with inductive load, max.	0.5 Hz
• on lamp load, max.	1 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; 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
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	4 000 V DC
Connection method	
required front connector	20-pin
Dimensions	
Width	80 mm
Height	125 mm
Depth	117 mm
Weights	
Weight, approx.	500 g

last modified:

12/14/2018