

SIMATIC S7-300, Digital output SM 322, isolated, 8 DO (relay), 1x 40-pole, 24 V DC, 120-230 V AC, 5 A with RC filter overvoltage protection



Figure similar

### Supply voltage

#### Load voltage L+

- |                                       |       |
|---------------------------------------|-------|
| • Rated value (DC)                    | 24 V  |
| • permissible range, lower limit (DC) | 24 V  |
| • permissible range, upper limit (DC) | 120 V |

#### Load voltage L1

- |                    |       |
|--------------------|-------|
| • Rated value (AC) | 230 V |
|--------------------|-------|

### Input current

- |                                 |        |
|---------------------------------|--------|
| from supply voltage L+, max.    | 160 mA |
| from backplane bus 5 V DC, max. | 100 mA |

### Power loss

- |                  |       |
|------------------|-------|
| Power loss, typ. | 3.5 W |
|------------------|-------|

### Digital outputs

- |                                   |                   |
|-----------------------------------|-------------------|
| Number of digital outputs         | 8; Relays         |
| Switching capacity of the outputs |                   |
| • on lamp load, max.              | 1 500 W; 230 V AC |

<b>Output current</b>	
• for signal "1" rated value	5 A
• for signal "1" minimum load current	10 mA
<b>Switching frequency</b>	
• with resistive load, max.	2 Hz
• with inductive load, max.	0.5 Hz
• on lamp load, max.	2 Hz
• mechanical, max.	10 Hz
<b>Total current of the outputs (per group)</b>	
<b>horizontal installation</b>	
— up to 60 °C, max.	5 A
<b>vertical installation</b>	
— up to 40 °C, max.	5 A
<b>Relay outputs</b>	
• Number of operating cycles, max.	100 000; 100 000 (24 V DC, at 5 A), 100 000 (230 V AC, at 5 A)
<b>Switching capacity of contacts</b>	
— with inductive load, max.	5 A; 5 A (230 V DC), 5 A (24 V AC)
— with resistive load, max.	5 A; 5 A (230 V DC), 5 A (24 V AC)
<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>Diagnostics indication LED</b>	
• Group error SF (red)	Yes
• Status indicator digital output (green)	Yes
<b>Potential separation</b>	
<b>Potential separation digital outputs</b>	
• between the channels	Yes
• between the channels, in groups of	1
• between the channels and backplane bus	Yes; Optocoupler
<b>Isolation</b>	
Isolation tested with	1500 V AC
<b>Connection method</b>	
required front connector	40-pin
<b>Dimensions</b>	
Width	40 mm
Height	125 mm

Depth	120 mm
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### Weights

Weight, approx.	320 g
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**last modified:** 08/30/2019