

SIMATIC S7-300, Digital output SM 322, isolated, 8 DO, 120/230 V AC, 1 A, 1x 20-pole



Supply voltage

Load voltage L1

- | | |
|---------------------------------------|---------------------|
| • Rated value (AC) | 230 V; 120/230 V AC |
| • permissible range, lower limit (AC) | 93 V |
| • permissible range, upper limit (AC) | 264 V |

Input current

- | | |
|---|--------|
| from load voltage L1 (without load), max. | 2 mA |
| from backplane bus 5 V DC, max. | 100 mA |

Power loss

- | | |
|------------------|-------|
| Power loss, typ. | 8.6 W |
|------------------|-------|

Digital outputs

- | | |
|-----------------------------------|------|
| Number of digital outputs | 8 |
| Switching capacity of the outputs | |
| • on lamp load, max. | 50 W |

Output voltage

- | | |
|------------------------|-------------|
| • for signal "1", min. | L1 (-1.5 V) |
|------------------------|-------------|

Output current	
• for signal "1" rated value	2 A
• for signal "1" minimum load current	10 mA
• for signal "1" permissible surge current, max.	20 A; max. 1 AC cycle
• 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.	2 A
vertical installation	
— up to 40 °C, max.	2 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
Diagnostic messages	
• Wire-break	No
• Short-circuit	No
• Fuse blown	Yes
• missing load voltage	Yes
Diagnostics indication LED	
• Rated load voltage PWR (green)	Yes
• Fuse OK FSG (green)	Yes
• Group error SF (red)	Yes
• Status indicator digital output (green)	Yes
Potential separation	
Potential separation digital outputs	
• between the channels	Yes
• between the channels, in groups of	4
• between the channels and backplane bus	Yes; Optocoupler
Isolation	
Isolation tested with	1500 V AC
Connection method	

required front connector	20-pin
Dimensions	
Width	40 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	275 g
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