

SIMATIC S7-300, Digital output SM 322, Isolated 16 DO, relay contacts, 1x 20-pole



Figure similar

Supply voltage	
Load voltage L+	
• Rated value (DC)	120 V
Load voltage L1	
• Rated value (AC)	230 V
Input current	
from supply voltage L+, max.	250 mA
from backplane bus 5 V DC, max.	100 mA
Power loss	
Power loss, typ.	4.5 W
Digital outputs	
Number of digital outputs	16; Relays
Short-circuit protection	No
Controlling a digital input	Yes
Size of motor starters according to NEMA, max.	Size 5 according to NEMA
Switching capacity of the outputs	

• on lamp load, max.	50 W; 230 V AC
<b>Output current</b>	
• for signal "1" rated value	2 A
• for signal "1" minimum load current	10 mA
<b>Parallel switching of two outputs</b>	
• for uprating	No
• for redundant control of a load	Yes
<b>Switching frequency</b>	
• with resistive load, max.	1 Hz
• with inductive load, max.	0.5 Hz
• With inductive load (to IEC 60947-5-1, DC13/AC15), max.	0.5 Hz
• on lamp load, max.	1 Hz
• mechanical, max.	10 Hz
<b>Total current of the outputs (per group)</b>	
<b>horizontal installation</b>	
— up to 60 °C, max.	8 A
<b>vertical installation</b>	
— up to 40 °C, max.	8 A
<b>Relay outputs</b>	
• Rated supply voltage of relay coil L+ (DC)	24 V
• Contact connection (internal)	No
• Number of operating cycles, max.	100 000; 50 000 (24 V DC, at 2 A); 700 000 (120 V AC, at 2 A); 100 000 (230 V AC, at 2 A)
<b>Switching capacity of contacts</b>	
— with inductive load, max.	2 A; 2 A (230 V AC), 2 A (24 V DC)
— with resistive load, max.	2 A; 2 A (230 V AC), 2 A (24 V DC)
— Thermal continuous current, max.	2 A
<b>Cable length</b>	
• shielded, max.	1 000 m
• unshielded, max.	600 m
<b>Interrupts/diagnostics/status information</b>	
Alarms	No
Diagnostics function	No
<b>Alarms</b>	
• Diagnostic alarm	No
<b>Diagnoses</b>	
• Wire-break	No
• Short-circuit	No
• Fuse blown	No
• missing load voltage	No
<b>Diagnostics indication LED</b>	

- Rated load voltage PWR (green) No
- Fuse OK FSG (green) No
- Status indicator digital output (green) Yes

### 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 1 500 V AC

### Connection method

required front connector 20-pin

### Dimensions

Width 40 mm  
 Height 125 mm  
 Depth 120 mm

### Weights

Weight, approx. 250 g

**last modified:** 08/19/2020