

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
Short-circuit protection	No; to be provided externally
Controlling a digital input	Yes

Switching capacity of the outputs	
<ul style="list-style-type: none"> • on lamp load, max. 	1 500 W; 230 V AC
<ul style="list-style-type: none"> • Low energy/fluorescent lamps with electronic control gear 	10x 58 W
<ul style="list-style-type: none"> • Fluorescent tubes, conventionally compensated 	1x 58 W
<ul style="list-style-type: none"> • Fluorescent tubes, uncompensated 	10x 58 W
Output current	
<ul style="list-style-type: none"> • for signal "1" rated value 	5 A
<ul style="list-style-type: none"> • for signal "1" minimum load current 	10 mA
Parallel switching of two outputs	
<ul style="list-style-type: none"> • for uprating 	No
<ul style="list-style-type: none"> • for redundant control of a load 	Yes
Switching frequency	
<ul style="list-style-type: none"> • with resistive load, max. 	2 Hz
<ul style="list-style-type: none"> • with inductive load, max. 	0.5 Hz
<ul style="list-style-type: none"> • With inductive load (to IEC 60947-5-1, DC13/AC15), max. 	0.5 Hz
<ul style="list-style-type: none"> • on lamp load, max. 	2 Hz
<ul style="list-style-type: none"> • mechanical, max. 	10 Hz
Total current of the outputs (per group)	
horizontal installation	
— up to 60 °C, max.	5 A
vertical installation	
— up to 40 °C, max.	5 A
Relay outputs	
<ul style="list-style-type: none"> • Contact connection (internal) 	Yes; 330 Ohm, 0.1uF
<ul style="list-style-type: none"> • Number of operating cycles, max. 	100 000; 100 000 (24 V DC, at 5 A), 100 000 (230 V AC, at 5 A)
Switching capacity of contacts	
— 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)
— Thermal continuous current, max.	5 A
Cable length	
<ul style="list-style-type: none"> • shielded, max. 	1 000 m
<ul style="list-style-type: none"> • unshielded, max. 	600 m
Interrupts/diagnostics/status information	
Alarms	Yes
Diagnostics function	Yes; Parameterizable
Alarms	
<ul style="list-style-type: none"> • Diagnostic alarm 	Yes; Parameterizable
Diagnostic messages	
<ul style="list-style-type: none"> • Diagnostic information readable 	Yes
Diagnostics indication LED	

- 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 1
- between the channels and backplane bus Yes; Optocoupler
- Between the channels and the power supply of the relays Yes

Isolation

Isolation tested with 1 500 V AC

Connection method

required front connector 40-pin

Dimensions

Width 40 mm
 Height 125 mm
 Depth 120 mm

Weights

Weight, approx. 320 g

last modified: 06/09/2020