

SIMATIC S7-300, Digital output SM 322, isolated, 8 DO (relay), 1x 20-pole, 24 V DC, 2 A or 230 V AC, 2A



Figure similar

Supply voltage	
Load voltage L+	
• Rated value (DC)	24 V
Input current	
from supply voltage L+, max.	160 mA
from backplane bus 5 V DC, max.	40 mA
Power loss	
Power loss, typ.	3.2 W
Digital outputs	
Number of digital outputs	8; Relays
Short-circuit protection	No
Controlling a digital input	Yes
Switching capacity of the outputs	
• on lamp load, max.	50 W
• Low energy/fluorescent lamps with electronic control gear	10x 58 W

• Fluorescent tubes, conventionally compensated	1x 58 W
• Fluorescent tubes, uncompensated	10x 58 W
Output current	
• for signal "1" rated value	2 A
• for signal "1" minimum load current	5 mA
Parallel switching of two outputs	
• for uprating	No
• for redundant control of a load	Yes
Switching frequency	
• with resistive load, max.	2 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.	2 Hz
• mechanical, max.	10 Hz
Relay outputs	
• Rated supply voltage of relay coil L+ (DC)	24 V; 110 mA
• Contact connection (internal)	Yes; SIOV-CU4032 K275G
• Number of operating cycles, max.	300 000; 230 V AC: 100 000; 120 V AC: 200 000; 24 V DC: 300 000 (at 2 A)
Switching capacity of contacts	
— with inductive load, max.	2 A; 2 A (230 V AC), 2 A (24 V DC)
— with resistive load, max.	2 A
— Thermal continuous current, max.	3 A
Cable length	
• shielded, max.	1 000 m
• unshielded, max.	600 m
Interrupts/diagnostics/status information	
Alarms	No
Diagnostics function	No
Alarms	
• Diagnostic alarm	No
Diagnostics messages	
• Wire-break	No
• Short-circuit	No
• Fuse blown	No
• missing load voltage	No
Diagnostics indication LED	
• Rated load voltage PWR (green)	No
• Fuse OK FSG (green)	No
• Status indicator digital output (green)	Yes

Potential separation

Potential separation digital outputs

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|--|------------------|
| • between the channels | Yes |
| • between the channels, in groups of | 2 |
| • between the channels and backplane bus | Yes; Optocoupler |

Isolation

Isolation tested with	1 500 V AC
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Connection method

required front connector	20-pin
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Dimensions

Width	40 mm
Height	125 mm
Depth	120 mm

Weights

Weight, approx.	190 g
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last modified:	06/09/2020
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