## **SIEMENS**

## **Data sheet**



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

E 361816 (4.1)	
Supply voltage	
Load voltage L+	
<ul> <li>Rated value (DC)</li> </ul>	24 V
<ul> <li>permissible range, lower limit (DC)</li> </ul>	24 V
<ul> <li>permissible range, upper limit (DC)</li> </ul>	120 V
Load voltage L1	
<ul> <li>Rated value (AC)</li> </ul>	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> <li>on lamp load, max.</li> </ul>	1 500 W; 230 V AC
<ul> <li>Low energy/fluorescent lamps with electronic control gear</li> </ul>	10x 58 W
<ul> <li>Fluorescent tubes, conventionally compensated</li> </ul>	1x 58 W
<ul> <li>Fluorescent tubes, uncompensated</li> </ul>	10x 58 W
Output current	
for signal "1" rated value	5 A
for signal "1" minimum load current	10 mA
Parallel switching of two outputs	
<ul><li>for uprating</li></ul>	No
for redundant control of a load	Yes
Switching frequency	
<ul> <li>with resistive load, max.</li> </ul>	2 Hz
<ul> <li>with inductive load, max.</li> </ul>	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
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> <li>Contact connection (internal)</li> </ul>	Yes; 330 Ohm, 0.1uF
<ul> <li>Number of operating cycles, max.</li> </ul>	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	
• shielded, max.	1 000 m
• unshielded, max.	600 m
Interrupts/diagnostics/status information	
Alarms	Yes
Diagnostics function	Yes; Parameterizable
Alarms	
Diagnostic alarm	Yes; Parameterizable
Diagnoses	
Diagnostic information readable	Yes
Diagnostics indication LED	
<ul> <li>Group error SF (red)</li> </ul>	Yes
<ul> <li>Status indicator digital output (green)</li> </ul>	Yes
Potential separation	
Potential separation digital outputs	
<ul> <li>between the channels</li> </ul>	Yes
<ul> <li>between the channels, in groups of</li> </ul>	1
<ul> <li>between the channels and backplane bus</li> </ul>	Yes; Optocoupler
<ul> <li>Between the channels and the power supply of the relays</li> </ul>	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

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