## **SIEMENS**

## **Data sheet**

6ES7322-5HF00-0AB0



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+	
<ul> <li>Rated value (DC)</li> </ul>	24 V
<ul> <li>permissible range, lower limit (DC)</li> </ul>	24 V
• permissible range, upper limit (DC)	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
Fluorescent tubes, uncompensated	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	
• for uprating	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
<ul> <li>on lamp load, max.</li> </ul>	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	

Contact connection (internal)	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		
<ul><li>— with inductive load, max.</li></ul>	5 A; 5 A (230 V DC), 5 A (24 V AC)	
<ul><li>— with resistive load, max.</li></ul>	5 A; 5 A (230 V DC), 5 A (24 V AC)	
— Thermal continuous current, max.	5 A	
Cable length		
<ul><li>shielded, max.</li></ul>	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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