## **SIEMENS**

## **Data sheet**

## 6ES7322-1CF00-0AA0



SIMATIC S7-300, Digital output SM 322, isolated, 8 DO, 48-125 V DC, 1.5A, 1x 20-pole

Figure similar

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Supply voltage		
Load voltage L+		
<ul> <li>Rated value (DC)</li> </ul>	48 V; 48 V DC to 125 V DC	
<ul> <li>permissible range, lower limit (DC)</li> </ul>	40 V	
<ul> <li>permissible range, upper limit (DC)</li> </ul>	140 V	
Reverse polarity protection	Yes; through fuse	
Input current		
from load voltage L+ (without load), max.	2 mA	
from backplane bus 5 V DC, max.	100 mA	
Power loss		
Power loss, typ.	7.2 W	
Digital outputs		
Number of digital outputs	8	
Short-circuit protection	Yes; Electronic	
<ul> <li>Response threshold, typ.</li> </ul>	4.4 A	
Limitation of inductive shutdown voltage to	M (-1 V)	
Controlling a digital input	Yes	
Spare fuses	6.3 A / 250 V, quick-response, 5x 20 mm	
Switching capacity of the outputs		
on lamp load, max.	15 W; 15 W (48 V) or 40 W (125 V)	
Output voltage		
• for signal "1", min.	L+ (-1.2 V)	
Output current		
<ul><li>for signal "1" rated value</li></ul>	1.5 A	
<ul> <li>for signal "1" permissible range for 0 to 40 °C, min.</li> </ul>	10 mA	
<ul> <li>for signal "1" permissible range for 0 to 40 °C, max.</li> </ul>	1.5 A	
<ul> <li>for signal "1" permissible range for 40 to 60 °C, min.</li> </ul>	10 mA	
<ul> <li>for signal "1" permissible range for 40 to 60 °C, max.</li> </ul>	1.5 A	
<ul><li>for signal "1" minimum load current</li></ul>	10 mA	
<ul><li>for signal "1" permissible surge current, max.</li></ul>	3 A; for 10 ms	
• for signal "0" residual current, max.	0.5 mA	
Output delay with resistive load		
• "0" to "1", max.	2 ms	
• "1" to "0", max.	15 ms	
Parallel switching of two outputs		
<ul><li>for uprating</li></ul>	No	
for redundant control of a load	Yes; only outputs of the same group	
Switching frequency		
<ul> <li>with resistive load, max.</li> </ul>	25 Hz	

<ul> <li>with inductive load, max.</li> </ul>	0.5 Hz
<ul> <li>with inductive load (acc. to IEC 60947-5-1, DC13), max.</li> </ul>	0.5 Hz
● on lamp load, max.	10 Hz
Total current of the outputs (per group)	
horizontal installation	
— up to 40 °C, max.	6 A
— up to 50 °C, max.	4 A
— up to 60 °C, max.	3 A
vertical installation	
— up to 40 °C, max.	4 A
Cable length	
<ul><li>shielded, max.</li></ul>	1 000 m
• unshielded, max.	600 m
Interrupts/diagnostics/status information	
Alarms	No
Diagnostics function	No
Alarms	
Diagnostic alarm	No
Diagnoses	
Wire-break	No
Short-circuit	No
<ul> <li>Fuse blown</li> </ul>	No
missing load voltage	No
Diagnostics indication LED	
<ul> <li>Rated load voltage PWR (green)</li> </ul>	No
<ul><li>Fuse OK FSG (green)</li></ul>	No
<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>	4
<ul> <li>between the channels and backplane bus</li> </ul>	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

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