## **SIEMENS**

## **Data sheet**

## 6ES7322-1BH01-0AA0



SIMATIC S7-300, Digital output SM 322, isolated, 16 DO, 24 V DC, 0.5A, 1x 20-pole, Total current 4 A/group (8 A/module)

Figure similar

E 98 HUG 1 A	
Supply voltage	
Load voltage L+	
<ul> <li>Rated value (DC)</li> </ul>	24 V
<ul> <li>permissible range, lower limit (DC)</li> </ul>	20.4 V
<ul> <li>permissible range, upper limit (DC)</li> </ul>	28.8 V
Input current	
from load voltage L+ (without load), max.	80 mA
from backplane bus 5 V DC, max.	80 mA
Power loss	
Power loss, typ.	4.9 W
Digital outputs	
Number of digital outputs	16
Short-circuit protection	Yes; Electronic
<ul> <li>Response threshold, typ.</li> </ul>	1 A
Limitation of inductive shutdown voltage to	L+ (-53 V)
Controlling a digital input	Yes
Switching capacity of the outputs	
on lamp load, max.	5 W
Load resistance range	
<ul> <li>lower limit</li> </ul>	48 Ω
upper limit	4 kΩ
Output voltage	
● for signal "1", min.	L+ (-0.8 V)
Output current	
● for signal "1" rated value	0.5 A
<ul> <li>for signal "1" permissible range for 0 to 40 °C, min.</li> </ul>	5 mA
<ul> <li>for signal "1" permissible range for 0 to 40 °C, max.</li> </ul>	0.6 A
<ul> <li>for signal "1" permissible range for 40 to 60 °C, min.</li> </ul>	5 mA
<ul> <li>for signal "1" permissible range for 40 to 60 °C, max.</li> </ul>	0.6 A
<ul><li>for signal "1" minimum load current</li></ul>	5 mA
for signal "0" residual current, max.	0.5 mA
Output delay with resistive load	
● "0" to "1", max.	100 µs
● "1" to "0", max.	500 μs
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>	100 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.	4 A
— up to 60 °C, max.	3 A
vertical installation	
— up to 40 °C, max.	2 A
Cable length	
• shielded, max.	1 000 m
<ul><li>unshielded, max.</li></ul>	600 m
Interrupts/diagnostics/status information	
Alarms	No
Diagnostics function	No
Alarms	
Diagnostic alarm	No
Diagnoses	
Wire-break	No
Short-circuit	No
• Fuse blown	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>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>	8
<ul> <li>between the channels and backplane bus</li> </ul>	Yes; Optocoupler
Isolation	
Isolation tested with	500 V DC
connection method	
required front connector	20-pin
Dimensions	
Width	40 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	190 g
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