## **SIEMENS**

## **Data sheet**

## 6ES7322-1BF01-0AA0



SIMATIC S7-300, Digital output SM 322, isolated, 8 DO, 24 V DC, 2A, 1x 20-pole

Figure similar

Supply voltage	
Load voltage L+	
Rated value (DC)	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.	60 mA
from backplane bus 5 V DC, max.	40 mA
Power loss	
Power loss, typ.	6.8 W
Digital outputs	
Number of digital outputs	8
Short-circuit protection	Yes; Electronic
<ul> <li>Response threshold, typ.</li> </ul>	3 A
Limitation of inductive shutdown voltage to	L+ (-48 V)
Controlling a digital input	Yes
Switching capacity of the outputs	
● on lamp load, max.	10 W
Load resistance range	
<ul><li>lower limit</li></ul>	12 Ω
upper limit	4 kΩ
Output voltage	
• for signal "1", min.	L+ (-0.8 V)
Output current	
<ul><li>for signal "1" rated value</li></ul>	2 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>	2.4 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>	2.4 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
<ul> <li>for redundant control of a load</li> </ul>	Yes

Switching fraguency	
Switching frequency	400 U-
with resistive load, max.	100 Hz
with inductive load, max.      with inductive load (ass. to IEC 60047.5.4. DC43)	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.	4 A
vertical installation	
— up to 40 °C, max.	4 A
Cable length	
<ul><li>shielded, max.</li></ul>	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	
Rated load voltage PWR (green)	No
• Fuse OK FSG (green)	No
Status indicator digital output (green)	Yes; per channel
Potential separation	100 pt 100 pt
Potential separation digital outputs	
between the channels	Yes
between the channels, in groups of	4
between the channels and backplane bus	Yes; Optocoupler
Isolation	
Isolation tested with	500 V DC
connection method / header	
required front connector	20-pin
Dimensions	
Width	40 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	190 g
··	·
last modified:	1/16/2021 🗗