## **SIEMENS**

## **Data sheet**

6ES7322-8BF00-0AB0



SIMATIC S7-300, Digital output SM 322, isolated, 8 DO, 24 V DC, 0.5A (1x 8 DO), Short-circuit protection diagnostics, 1x 20-pole

Figure similar

Supply voltage		
Load voltage L+		
Rated value (DC)	24 V	
• permissible range, lower limit (DC)	20.4 V	
<ul> <li>permissible range, upper limit (DC)</li> </ul>	28.8 V	
Input current		
from load voltage L+ (without load), max.	90 mA	
from backplane bus 5 V DC, max.	70 mA	
Power loss		
Power loss, typ.	5 W	
Digital outputs		
Number of digital outputs	8	
Short-circuit protection	Yes; Electronic	
Response threshold, typ.	0.75 to 1.5 A	
Limitation of inductive shutdown voltage to	L+ (-45 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	3 kΩ	
Output voltage		
● for signal "1", min.	L+ (-0.8 to -1.6 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>	10 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>	10 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>	10 mA	
for signal "0" residual current, max.	0.5 mA	
Output delay with resistive load		
• "0" to "1", max.	180 μs	
• "1" to "0", max.	245 μs	
Parallel switching of two outputs		
<ul><li>for uprating</li></ul>	No	
<ul> <li>for redundant control of a load</li> </ul>	Outputs with series diodes only	

Switching frequency	
with resistive load, max.	100 Hz
with resistive load, max.      with inductive load, max.	2 Hz
<ul> <li>with inductive load, max.</li> <li>with inductive load (acc. to IEC 60947-5-1, DC13),</li> </ul>	2 Hz
max.	
<ul><li>on lamp load, max.</li></ul>	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.	4 A
Cable length	
<ul><li>shielded, max.</li></ul>	1 000 m
unshielded, max.	600 m
Interrupts/diagnostics/status information	
Diagnostics function	Yes; Parameterizable
Alarms	
Diagnostic alarm	Yes; Parameterizable
Diagnoses	
<ul> <li>Diagnostic information readable</li> </ul>	Yes
Wire-break	Yes
Short-circuit	Yes
Fuse blown	No
missing load voltage	Yes
Diagnostics indication LED	
Rated load voltage PWR (green)	No
• Fuse OK FSG (green)	No
• Group error SF (red)	Yes
Status indicator digital output (green)  Change of fault in digital output (green)	Yes; per channel
Channel fault indicator F (red)	Yes
Potential separation	
Potential separation digital outputs	•
between the channels, in groups of	8
between the channels and backplane bus	Yes; Optocoupler
Isolation	500 // DO
Isolation tested with	500 V DC
connection method / header	00.1
required front connector	20-pin
Dimensions	
Width	40 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	210 g
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