## 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

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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.	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	
lower limit	48 Ω
upper limit	3 kΩ
Output voltage	
<ul> <li>for signal "1", min.</li> </ul>	L+ (-0.8 to -1.6 V)
Output current	
<ul> <li>for signal "1" rated value</li> </ul>	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
<ul> <li>for signal "0" residual current, max.</li> </ul>	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	
<ul> <li>with resistive load, max.</li> </ul>	100 Hz

<ul> <li>with inductive load, max.</li> </ul>	2 Hz
<ul> <li>with inductive load (acc. to IEC 60947-5-1, DC13), max.</li> </ul>	2 Hz
<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	
Diagnostic information readable	Yes
• Wire-break	Yes
Short-circuit	Yes
• Fuse blown	No
<ul> <li>missing load voltage</li> </ul>	Yes
Diagnostics indication LED	
<ul> <li>Rated load voltage PWR (green)</li> </ul>	No
Fuse OK FSG (green)	No
Group error SF (red)	Yes
<ul> <li>Status indicator digital output (green)</li> </ul>	Yes; per channel
<ul> <li>Channel fault indicator F (red)</li> </ul>	Yes
Potential separation	
Potential separation digital outputs	
<ul> <li>between the channels, in groups of</li> </ul>	8
between the channels and backplane bus	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.	210 g
Troight, approx.	2.09

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