

SIMATIC S7-300 digital output SM 322, isolated in groups of 16, 64 DO, 24 V DC, 0.3 A sink output total current 2 A/group, 8 A/module terminal blocks 6ES7392-1.N00-0AA0 and cable 6ES7392-4...0-0AA0 required

Supply voltage	
Load voltage L+	
<ul style="list-style-type: none"> <li>Rated value (DC)</li> </ul>	24 V
<ul style="list-style-type: none"> <li>permissible range, lower limit (DC)</li> </ul>	20.4 V
<ul style="list-style-type: none"> <li>permissible range, upper limit (DC)</li> </ul>	28.8 V
Input current	
from load voltage L+ (without load), max.	75 mA
from backplane bus 5 V DC, max.	100 mA
Power loss	
Power loss, typ.	6 W
Digital outputs	
Number of digital outputs	64
Short-circuit protection	Yes; Electronic
<ul style="list-style-type: none"> <li>Response threshold, typ.</li> </ul>	0.7 to 1.9 A
Limitation of inductive shutdown voltage to	L+ (-53 V)
Controlling a digital input	Yes
Switching capacity of the outputs	
<ul style="list-style-type: none"> <li>on lamp load, max.</li> </ul>	5 W
Load resistance range	
<ul style="list-style-type: none"> <li>lower limit</li> </ul>	80 Ω
<ul style="list-style-type: none"> <li>upper limit</li> </ul>	10 kΩ
Output voltage	
<ul style="list-style-type: none"> <li>for signal "1", min.</li> </ul>	L+ (-0.5 V)
Output current	
<ul style="list-style-type: none"> <li>for signal "1" rated value</li> </ul>	0.3 A
<ul style="list-style-type: none"> <li>for signal "1" permissible range, min.</li> </ul>	2.4 mA
<ul style="list-style-type: none"> <li>for signal "1" permissible range, max.</li> </ul>	0.36 A
<ul style="list-style-type: none"> <li>for signal "0" residual current, max.</li> </ul>	0.1 mA
Output delay with resistive load	
<ul style="list-style-type: none"> <li>"0" to "1", max.</li> </ul>	550 μs
<ul style="list-style-type: none"> <li>"1" to "0", max.</li> </ul>	550 μs
Parallel switching of two outputs	
<ul style="list-style-type: none"> <li>for uprating</li> </ul>	No
<ul style="list-style-type: none"> <li>for redundant control of a load</li> </ul>	Yes
Switching frequency	
<ul style="list-style-type: none"> <li>with resistive load, max.</li> </ul>	100 Hz
<ul style="list-style-type: none"> <li>with inductive load, max.</li> </ul>	0.5 Hz
<ul style="list-style-type: none"> <li>on lamp load, max.</li> </ul>	10 Hz
Total current of the outputs (per group)	
horizontal installation	
<ul style="list-style-type: none"> <li>— up to 40 °C, max.</li> </ul>	1.6 A
<ul style="list-style-type: none"> <li>— up to 60 °C, max.</li> </ul>	1.2 A
vertical installation	
<ul style="list-style-type: none"> <li>— up to 40 °C, max.</li> </ul>	1.6 A
Cable length	
<ul style="list-style-type: none"> <li>shielded, max.</li> </ul>	1 000 m
<ul style="list-style-type: none"> <li>unshielded, max.</li> </ul>	600 m
Interrupts/diagnostics/status information	
Alarms	No
Diagnostics function	No

<b>Alarms</b>	
• Diagnostic alarm	No
<b>Diagnoses</b>	
• Diagnostic information readable	No
• Wire-break	No
• Short-circuit	No
• Fuse blown	No
• missing load voltage	No
<b>Potential separation</b>	
Potential separation digital outputs	
• between the channels	No
• between the channels, in groups of	16
• between the channels and backplane bus	Yes; Optocoupler
<b>Isolation</b>	
Isolation tested with	500 V DC
<b>connection method</b>	
required front connector	Cable: 6ES7392-4Bxx0-0AA0 terminal blocks: 6ES7392-1xN00-0AA0
<b>Dimensions</b>	
Width	40 mm
Height	125 mm
Depth	112 mm
<b>Weights</b>	
Weight, approx.	230 g

**last modified:** 3/12/2024 