

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"> Rated value (DC) 	24 V
<ul style="list-style-type: none"> permissible range, lower limit (DC) 	20.4 V
<ul style="list-style-type: none"> permissible range, upper limit (DC) 	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"> Response threshold, typ. 	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"> on lamp load, max. 	5 W
Load resistance range	
<ul style="list-style-type: none"> lower limit 	80 Ω
<ul style="list-style-type: none"> upper limit 	10 kΩ
Output voltage	
<ul style="list-style-type: none"> for signal "1", min. 	L+ (-0.5 V)
Output current	
<ul style="list-style-type: none"> for signal "1" rated value 	0.3 A
<ul style="list-style-type: none"> for signal "1" permissible range, min. 	2.4 mA
<ul style="list-style-type: none"> for signal "1" permissible range, max. 	0.36 A
<ul style="list-style-type: none"> for signal "0" residual current, max. 	0.1 mA
Output delay with resistive load	
<ul style="list-style-type: none"> "0" to "1", max. 	550 μs
<ul style="list-style-type: none"> "1" to "0", max. 	550 μs
Parallel switching of two outputs	
<ul style="list-style-type: none"> for uprating 	No
<ul style="list-style-type: none"> for redundant control of a load 	Yes
Switching frequency	
<ul style="list-style-type: none"> with resistive load, max. 	100 Hz
<ul style="list-style-type: none"> with inductive load, max. 	0.5 Hz
<ul style="list-style-type: none"> on lamp load, max. 	10 Hz
Total current of the outputs (per group)	
horizontal installation	
<ul style="list-style-type: none"> — up to 40 °C, max. 	1.6 A
<ul style="list-style-type: none"> — up to 60 °C, max. 	1.2 A
vertical installation	
<ul style="list-style-type: none"> — up to 40 °C, max. 	1.6 A
Cable length	
<ul style="list-style-type: none"> shielded, max. 	1 000 m
<ul style="list-style-type: none"> unshielded, max. 	600 m
Interrupts/diagnostics/status information	
Alarms	No
Diagnostics function	No

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

last modified: 3/12/2024 