SIEMENS

Data sheet

6ES7322-1BL00-0AA0



SIMATIC S7-300, Digital output SM 322, isolated, 32 DO, 24 V DC, 0.5A, 1x 40-pole, Total current 4 A/group (16 A/module)

Complexed force	
Supply voltage	
Load voltage L+	241/
Rated value (DC)	24 V
permissible range, lower limit (DC) in the second control of the second control	20.4 V
permissible range, upper limit (DC)	28.8 V
Input current	
from load voltage L+ (without load), max.	160 mA
from backplane bus 5 V DC, max.	110 mA
Power loss	
Power loss, typ.	6.6 W
Digital outputs	
Number of digital outputs	32
Short-circuit protection	Yes; Electronic
Response threshold, typ.	1 A
Limitation of inductive shutdown voltage to	L+ (-53 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	4 kΩ
Output voltage	
• for signal "1", min.	L+ (-0.8 V)
Output current	
for signal "1" rated value	0.5 A
 for signal "1" permissible range for 0 to 40 °C, min. 	5 mA
 for signal "1" permissible range for 0 to 40 °C, max. 	0.6 A
 for signal "1" permissible range for 40 to 60 °C, min. 	5 mA
 for signal "1" permissible range for 40 to 60 °C, max. 	0.6 A
for signal "1" minimum load current	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
 for redundant control of a load 	Yes; only outputs of the same group

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Switching frequency • with resistive load, max. • with inductive load, max. • with inductive load (acc. to IEC 60947-5-1, DC13), max. 100 Hz 0.5 Hz 0.5 Hz	
 with inductive load, max. with inductive load (acc. to IEC 60947-5-1, DC13), 0.5 Hz 	
• with inductive load (acc. to IEC 60947-5-1, DC13), 0.5 Hz	
THOM:	
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. 3 A	
vertical installation	
— up to 40 °C, max.	
Cable length	
• shielded, max. 1 000 m	
• unshielded, max. 600 m	
Interrupts/diagnostics/status information	
Alarms	
Diagnostics function No	
Alarms	
Diagnostic alarm No	
Diagnoses	
Diagnostic information readable No	
Wire-break No	
Short-circuit No	
missing load voltage No	
Diagnostics indication LED	
Rated load voltage PWR (green) No	
• Fuse OK FSG (green) No	
Group error SF (red) No	
Status indicator digital output (green) Yes; per channel	
Channel fault indicator F (red) No	
Potential separation	
Potential separation digital outputs	
• between the channels Yes	
between the channels, in groups of	
• between the channels and backplane bus Yes; Optocoupler	
Isolation	
Isolation tested with 500 V DC	
Connection method	
required front connector 40-pin	
Dimensions	
Width 40 mm	
Height 125 mm	
Depth 120 mm	
Weights	
Weight, approx. 260 g	
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