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)

Supply voltage	
Load voltage L+	
Rated value (DC)	24 V
• permissible range, lower limit (DC)	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

Switching frequency	
with resistive load, max.	100 Hz
• with inductive load, max.	0.5 Hz
 with inductive load (acc. to IEC 60947-5-1, DC13), 	0.5 Hz
max.	
 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.	2 A
Cable length	
 shielded, max. 	1 000 m
 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
 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 	8
• 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	
	260 a
Weight, approx.	260 g
last modified.	

last modified:

1/16/2021 🖸