SIEMENS

Data sheet

6ES7322-1BH01-0AA0



SIMATIC S7-300, Digital output SM 322, isolated, 16 DO, 24 V DC, 0.5A, 1x 20-pole, Total current 4 A/group (8 A/module)

Figure	similar

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.	80 mA
from backplane bus 5 V DC, max.	80 mA
Power loss	
Power loss, typ.	4.9 W
Digital outputs	
Number of digital outputs	16
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
Switching frequency	103
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	
• Wire-break	No
• Short-circuit	No
• Fuse blown	No
missing load voltage	No
Diagnostics indication LED	Na
Rated load voltage PWR (green)	No
Fuse OK FSG (green) Statue indicator digital output (green)	No
Status indicator digital output (green)	Yes
Potential separation	
Potential separation digital outputs	Mar.
between the channels	Yes
between the channels, in groups of	8 Vaci Onteccupler
between the channels and backplane bus	Yes; Optocoupler
Isolation	500 V DO
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.	190 g
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