SIEMENS

Data sheet

6ES7322-1CF00-0AA0



SIMATIC S7-300, Digital output SM 322, isolated, 8 DO, 48-125 V DC, 1.5A, 1x 20-pole

Figure similar

Supply voltage	
Load voltage L+	
 Rated value (DC) 	48 V; 48 V DC to 125 V DC
 permissible range, lower limit (DC) 	40 V
 permissible range, upper limit (DC) 	140 V
 Reverse polarity protection 	Yes; through fuse
Input current	
from load voltage L+ (without load), max.	2 mA
from backplane bus 5 V DC, max.	100 mA
Power loss	
Power loss, typ.	7.2 W
Digital outputs	
Number of digital outputs	8
Short-circuit protection	Yes; Electronic
 Response threshold, typ. 	4.4 A
Limitation of inductive shutdown voltage to	M (-1 V)
Controlling a digital input	Yes
Spare fuses	6.3 A / 250 V, quick-response, 5x 20 mm
Switching capacity of the outputs	
• on lamp load, max.	15 W; 15 W (48 V) or 40 W (125 V)
Output voltage	
● for signal "1", min.	L+ (-1.2 V)
Output current	
● for signal "1" rated value	1.5 A
 for signal "1" permissible range for 0 to 40 °C, min. 	10 mA
 for signal "1" permissible range for 0 to 40 °C, max. 	1.5 A
 for signal "1" permissible range for 40 to 60 °C, min. 	10 mA
 for signal "1" permissible range for 40 to 60 °C, max. 	1.5 A
for signal "1" minimum load current	10 mA
for signal "1" permissible surge current, max.	3 A; for 10 ms
• for signal "0" residual current, max.	0.5 mA
Output delay with resistive load	
• "0" to "1", max.	2 ms
• "1" to "0", max.	15 ms
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.	25 Hz
with inductive load, max.	0.5 Hz
 with inductive load, max. with inductive load (acc. to IEC 60947-5-1, DC13), 	0.5 Hz
max.	0.5112
• on lamp load, max.	10 Hz
Total current of the outputs (per group)	
horizontal installation	
— up to 40 °C, max.	6 A
— up to 50 °C, max.	4 A
— up to 60 °C, max.	3 A
vertical installation	
— up to 40 °C, max.	4 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	
 Rated load voltage PWR (green) 	No
Fuse OK FSG (green)	No
Group error SF (red)	Yes
 Status indicator digital output (green) 	Yes
Potential separation	
Potential separation digital outputs	
 between the channels 	Yes
 between the channels, in groups of 	4
 between the channels and backplane bus 	Yes; Optocoupler
Isolation	
Isolation tested with	1 500 V AC
connection method / header	
required front connector	20-pin
Dimensions	
Width	40 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	250 g
	1/16/2021 🖸

6ES73221CF000AA0 Page 2/2