SIEMENS

Data sheet

6ES7322-8BF00-0AB0



SIMATIC S7-300, Digital output SM 322, isolated, 8 DO, 24 V DC, 0.5A (1x 8 DO), Short-circuit protection diagnostics, 1x 20-pole

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.	90 mA
from backplane bus 5 V DC, max.	70 mA
Power loss	
Power loss, typ.	5 W
Digital outputs	
Number of digital outputs	8
Short-circuit protection	Yes; Electronic
Response threshold, typ.	0.75 to 1.5 A
Limitation of inductive shutdown voltage to	L+ (-45 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	3 kΩ
Output voltage	
● for signal "1", min.	L+ (-0.8 to -1.6 V)
Output current	
for signal "1" rated value	0.5 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. 	0.6 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. 	0.6 A
for signal "1" minimum load current	10 mA
for signal "0" residual current, max.	0.5 mA
Output delay with resistive load	
● "0" to "1", max.	180 μs
• "1" to "0", max.	245 µs
Parallel switching of two outputs	
• for uprating	No
for redundant control of a load	Outputs with series diodes only
Switching frequency	
 with resistive load, max. 	100 Hz

a unital individual and many	211-
with inductive load, max. with inductive load (ass. to UEC 60047 5.1, DC13), max.	2 Hz
with inductive load (acc. to IEC 60947-5-1, DC13), max.	2 Hz 10 Hz
on lamp load, max. Total current of the outputs (per group)	10 HZ
Total current of the outputs (per group)	
horizontal installation	4.0
— up to 40 °C, max.	4 A
— up to 60 °C, max. vertical installation	3 A
	4.0
— up to 40 °C, max.	4 A
Cable length	4 000
• shielded, max.	1 000 m
• unshielded, max.	600 m
Interrupts/diagnostics/status information	V 5 1 1 1
Diagnostics function	Yes; Parameterizable
Alarms	V 2
Diagnostic alarm	Yes; Parameterizable
Diagnoses	v.
Diagnostic information readable	Yes
Wire-break	Yes
Short-circuit	Yes
• Fuse blown	No
missing load voltage	Yes
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; per channel
Channel fault indicator F (red)	Yes
Potential separation	
Potential separation digital outputs	
 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	20-pin
Dimensions	
Width	40 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	210 g

last modified: 3/12/2024 🖸