SIEMENS

Data sheet

6ES7322-1FH00-0AA0



SIMATIC S7-300, Digital output SM 322, Isolated 16 DO, 120/230 V AC, 1 A, 1x 20-pole

Figuresimilar

Supply voltage		
Load voltage L1		
• Rated value (AC) 230 V; 120/230 V A	AC	
• permissible range, lower limit (AC) 79 V		
• permissible range, upper limit (AC) 264 V		
Input current		
from load voltage L1 (without load), max. 2 mA		
from backplane bus 5 V DC, max. 200 mA		
Power loss		
Power loss, typ. 8.6 W		
Digital outputs		
Number of digital outputs 16		
Short-circuit protection Yes; Fuse 8 A, 250) V; per group	
• required current for fuse shutdown, min. 40 A		
Response time, max. 300 ms		
Controlling a digital input Yes		
Size of motor starters according to NEMA, max. 4 NEMA compliant	t i i i i i i i i i i i i i i i i i i i	
Spare fuses 8 A / quick response	se	
Switching capacity of the outputs		
• on lamp load, max. 50 W		
Output voltage		
• for signal "1" (at max. current), min. L1 (-1.5 V)		
• for signal "1" (at min. current), min. L1 (-8.5 V)		
Output current		
• for signal "1" rated value 1 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 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. 0.5 A		
• for signal "1" minimum load current 10 mA		
• for signal "1" permissible surge current, max. 20 A; with 2 half wa	aves	
• for signal "0" residual current, max. 2 mA		
Parallel switching of two outputs		
• for uprating No		
• for redundant control of a load Yes; only outputs of	of the same group	
Switching frequency		
• with resistive load, max. 10 Hz		
• with inductive load, max. 0.5 Hz		
• with inductive load (acc. to IEC 60947-5-1, AC15), max. 0.5 Hz		

 on lamp load, max. 	1 Hz	
Total current of the outputs (per group)	1.1.16	
horizontal installation		
— up to 40 °C, max.	4 A	
— up to 60 °C, max.	2 A	
vertical installation	2/1	
— up to 40 °C, max.	2 A	
Cable length	2.1	
• shielded, max.	1 000 m	
• unshielded, max.	600 m	
Interrupts/diagnostics/status information		
Diagnostics function	Yes; Fuse blown or load voltage missing	
Alarms	· · · · · · · · · · · · · · · · · · ·	
Diagnostic alarm	No	
Diagnoses		
• Wire-break	No	
Short-circuit	No	
Fuse blown	Yes	
 missing load voltage 	No	
Diagnostics indication LED		
 Rated load voltage PWR (green) 	No	
Fuse OK FSG (green)	Yes; Red LED for fuse	
Group error SF (red)	Yes	
 Status indicator digital output (green) 	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	4 000 V DC	
connection method		
required front connector	20-pin	
Dimensions		
Width	40 mm	
Height	125 mm	
Depth	120 mm	
Weights		
Weight, approx.	275 g	
last modified:	3/12/2024 🖸	