SIEMENS

Data sheet

6ES7322-1FF01-0AA0



SIMATIC S7-300, Digital output SM 322, isolated, 8 DO, 120/230 V AC, 1 A, 1x 20-pole

Figure similar

Supply voltage		
Load voltage L1		
 Rated value (AC) 	230 V; 120/230 V AC	
 permissible range, lower limit (AC) 	93 V	
 permissible range, upper limit (AC) 	264 V	
 permissible frequency range, lower limit 	47 Hz	
 permissible frequency range, upper limit 	63 Hz	
Input current		
from load voltage L1 (without load), max.	2 mA	
from backplane bus 5 V DC, max.	100 mA	
Power loss		
Power loss, typ.	8.6 W	
Digital outputs		
Number of digital outputs	8	
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.	5 NEMA compliant	
Spare fuses	8 A / quick response	
Zero-crossing switch	Yes; Max. 60 V	
Switching capacity of the outputs		
• on lamp load, max.	50 W	
Output voltage		
 for signal "1", min. 	L1 (-1.5 V)	
 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 	2 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. 	2 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 A	
 for signal "1" minimum load current 	10 mA	
 for signal "1" permissible surge current, max. 	20 A; max. 1 AC cycle	
 for signal "0" residual current, max. 	2 mA	
Output delay with resistive load		

• "0" to "1", max.	1 AC cycle
• "1" to "0", max.	1 AC cycle
Parallel switching of two outputs	
• for uprating	No
for redundant control of a load	Yes
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)	
horizontal installation	
— up to 40 °C, max.	4 A
— up to 60 °C, max.	2 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	Yes; Fuse blown or load voltage missing
Alarms	
Diagnostic alarm	No
Diagnoses	
Wire-break	No
Short-circuit	No
Fuse blown	Yes
 missing load voltage 	Yes
Diagnostics indication LED	
 Rated load voltage PWR (green) 	Yes
Fuse OK FSG (green)	Yes
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
	125 mm
Height	120 mm
Depth	
Weights	075
Weight, approx.	275 g
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