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

1 * 100 00		
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		
-	No	
for upratingfor redundant control of a load	Yes	
Switching frequency	165	
	40.11-	
with resistive load, max. with industrial load, max.	10 Hz	
with inductive load, max. It is the discrete HEO 00047 F to A045.	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		
required front connector	20-pin	
Dimensions		
Width	40 mm	
Height	125 mm	
Depth	120 mm	
Weights		
Weight, approx.	275 g	
rroigni, approx.	2109	

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