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	

· ·	Hz 5 Hz 5 Hz
for redundant control of a load Switching frequency with resistive load, max. with inductive load, max. 0.5	Hz 5 Hz 5 Hz
Switching frequency • with resistive load, max. • with inductive load, max. 0.5	Hz 5 Hz 5 Hz
 with resistive load, max. with inductive load, max. 0.5 	5 Hz 5 Hz
• with inductive load, max. 0.5	5 Hz 5 Hz
·	5 Hz
• with inductive load (acc. to IEC 60947-5-1, AC15), max.	
	dz
• on lamp load, max.	
Total current of the outputs (per group)	
horizontal installation	
— up to 40 °C, max.	
— up to 60 °C, max. 2 A	4
vertical installation	
— up to 40 °C, max. 2 A	4
Cable length	
	000 m
• unshielded, max. 600	0 m
Interrupts/diagnostics/status information	
Alarms	
Diagnostics function Yes	es; Fuse blown or load voltage missing
Alarms	
Diagnostic alarm No	
Diagnoses	
• Wire-break No	
• Short-circuit No	
• Fuse blown Yes	es
missing load voltage Yes	es
Diagnostics indication LED	
Rated load voltage PWR (green) Yes	es
• Fuse OK FSG (green)	es
Group error SF (red) Yes	es
Status indicator digital output (green) Yes	es ·
Potential separation	
Potential separation digital outputs	
• between the channels Yes	es
• between the channels, in groups of 4	
	es; Optocoupler
Isolation	
Isolation tested with 1 50	500 V AC
connection method	
	-pin
Dimensions 25	
	mm
	5 mm
	0 mm
Weights	V IIIII
	5 a
Weight, approx. 275	o y

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