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

Figure similar

Cumply voltage		
Supply voltage		
Load voltage L1	000 V, 400/000 V AO	
• Rated value (AC)	230 V; 120/230 V 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	
Spare fuses	8 A / quick response	
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 waves	
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 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)	
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	
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

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