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

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Supply voltage					
Load voltage L1					
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	2.0
• 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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