SIEMENS

Data sheet

6ES7322-1HH01-0AA0



SIMATIC S7-300, Digital output SM 322, Isolated 16 DO, relay contacts, 1x 20-pole

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Supply voltage	
Load voltage L+	
Rated value (DC)	120 V
Load voltage L1	
Rated value (AC)	230 V
Input current	
from supply voltage L+, max.	250 mA
from backplane bus 5 V DC, max.	100 mA
Power loss	
Power loss, typ.	4.5 W
Digital outputs	
Number of digital outputs	16; Relays
Short-circuit protection	No
Controlling a digital input	Yes
Size of motor starters according to NEMA, max.	Size 5 according to NEMA
Switching capacity of the outputs	
• on lamp load, max.	50 W; 230 V AC
Output current	
 for signal "1" rated value 	2 A
 for signal "1" minimum load current 	10 mA
Parallel switching of two outputs	
 for uprating 	No
 for redundant control of a load 	Yes
Switching frequency	
 with resistive load, max. 	1 Hz
 with inductive load, max. 	0.5 Hz
• With inductive load (to IEC 60947-5-1, DC13/AC15), max.	0.5 Hz
 on lamp load, max. 	1 Hz
 mechanical, max. 	10 Hz
Total current of the outputs (per group)	
horizontal installation	
— up to 60 °C, max.	8 A
vertical installation	
— up to 40 °C, max.	8 A
Relay outputs	
 Rated supply voltage of relay coil L+ (DC) 	24 V
 Contact connection (internal) 	No
Number of operating cycles, max.	100 000; 50 000 (24 V DC, at 2 A); 700 000 (120 V AC, at 2 A); 100 000 (230 V AC, at 2 A)
Switching capacity of contacts	

 — with inductive load, max. — with resistive load, max. 	2 A; 2 A (230 V AC), 2 A (24 V DC) 2 A; 2 A (230 V AC), 2 A (24 V DC)	
- Thermal continuous current, max.	2 A	
Cable length		
shielded, max.	1 000 m	
unshielded, max.	600 m	
Interrupts/diagnostics/status information		
Alarms	No	
Diagnostics function	No	
Alarms		
Diagnostic alarm	No	
Diagnoses		
Wire-break	No	
Short-circuit	No	
Fuse blown	No	
 missing load voltage 	No	
Diagnostics indication LED		
 Rated load voltage PWR (green) 	No	
 Fuse OK FSG (green) 	No	
 Status indicator digital output (green) 	Yes	
Potential separation		
Potential separation digital outputs		
 between the channels 	Yes	
 between the channels, in groups of 	8	
 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.	250 g	
last medified		

last modified:

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