SIEMENS

Data sheet 6ES7322-1HH01-0AA0

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

Figure similar

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.	2 A; 2 A (230 V AC), 2 A (24 V DC)
— with resistive load, max.	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 modified: 4/26/2024