SIEMENS

Data sheet

6ES7322-5HF00-0AB0



SIMATIC S7-300, Digital output SM 322, isolated, 8 DO (relay), 1x 40-pole, 24 V DC, 120-230 V AC, 5 A with RC filter overvoltage protection

Figure similar

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Supply voltage		
Load voltage L+		
 Rated value (DC) 	24 V	
 permissible range, lower limit (DC) 	24 V	
• permissible range, upper limit (DC)	120 V	
Load voltage L1		
 Rated value (AC) 	230 V	
Input current		
from supply voltage L+, max.	160 mA	
from backplane bus 5 V DC, max.	100 mA	
Power loss		
Power loss, typ.	3.5 W	
Digital outputs		
Number of digital outputs	8; Relays	
Short-circuit protection	No; to be provided externally	
Controlling a digital input	Yes	
Switching capacity of the outputs		
 on lamp load, max. 	1 500 W; 230 V AC	
 Low energy/fluorescent lamps with electronic control gear 	10x 58 W	
 Fluorescent tubes, conventionally compensated 	1x 58 W	
Fluorescent tubes, uncompensated	10x 58 W	
Output current		
● for signal "1" rated value	5 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.	2 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. 	2 Hz	
mechanical, max.	10 Hz	
Total current of the outputs (per group)		
horizontal installation		
— up to 60 °C, max.	5 A	
vertical installation		
— up to 40 °C, max.	5 A	
Relay outputs		

Contact connection (internal)	Yes; 330 Ohm, 0.1uF	
 Number of operating cycles, max. 	100 000; 100 000 (24 V DC, at 5 A), 100 000 (230 V AC, at 5 A)	
Switching capacity of contacts		
— with inductive load, max.	5 A; 5 A (230 V DC), 5 A (24 V AC)	
— with resistive load, max.	5 A; 5 A (230 V DC), 5 A (24 V AC)	
 Thermal continuous current, max. 	5 A	
Cable length		
shielded, max.	1 000 m	
• unshielded, max.	600 m	
Interrupts/diagnostics/status information		
Alarms	Yes	
Diagnostics function	Yes; Parameterizable	
Alarms		
Diagnostic alarm	Yes; Parameterizable	
Diagnoses		
Diagnostic information readable	Yes	
Diagnostics indication LED		
 Group error SF (red) 	Yes	
 Status indicator digital output (green) 	Yes	
Potential separation		
Potential separation digital outputs		
 between the channels 	Yes	
 between the channels, in groups of 	1	
 between the channels and backplane bus 	Yes; Optocoupler	
 Between the channels and the power supply of the relays 	Yes	
Isolation		
Isolation tested with	1 500 V AC	
connection method		
required front connector	40-pin	
Dimensions		
Width	40 mm	
Height	125 mm	
Depth	120 mm	
Weights		
Weight, approx.	320 g	

last modified:

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