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

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	

un to 60 °C may	5 A
— up to 60 °C, max.	J A
vertical installation	F. A.
— 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	100 000, 100 000 (24 V DC, at 3 A), 100 000 (230 V AC, at 3 A)
— with inductive load, max.	5 A; 5 A (230 V DC), 5 A (24 V AC)
with inductive load, max. — with resistive load, max.	
•	5 A; 5 A (230 V DC), 5 A (24 V AC)
— Thermal continuous current, max. Cable length	5 A
	1 000 m
• shielded, max.	600 m
• unshielded, max.	800 III
Interrupts/diagnostics/status information	V
Alarms	Yes
Diagnostics function	Yes; Parameterizable
Alarms	V D
Diagnostic alarm	Yes; Parameterizable
Diagnoses	V.
Diagnostic information readable	Yes
Diagnostics indication LED	N.
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
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