SIEMENS

Data sheet

6ES7322-5GH00-0AB0



SIMATIC S7-300, Digital output SM 322, isolated, 16 DO (solid-state relay), 24-48 V AC/DC; 0.5 A with single rooting, 1x 40-pole

Supply voltage		
Mains buffering		
Mains/voltage failure stored energy time	5 ms	
Load voltage L+		
Rated value (DC)	24 V; 24 / 48	
 permissible range, lower limit (DC) 	20.4 V	
 permissible range, upper limit (DC) 	57.6 V	
Reverse polarity protection	Yes	
Input current		
from supply voltage L+, max.	200 mA	
from backplane bus 5 V DC, max.	100 mA	
Power loss		
Power loss, typ.	2.8 W	
Digital outputs		
Number of digital outputs	16	
Short-circuit protection	No; to be provided externally	
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.	2.5 W	
Output voltage		
• for signal "1", min.	L+ (-0.25 V)	
Output current		
for signal "1" rated value	0.5 A	
• for signal "1" permissible range for 0 to 40 °C, max.	0.5 A	
 for signal "1" permissible range for 40 to 60 °C, max. 	0.5 A	
for signal "1" permissible surge current, max.	1.5 A; for 50 ms, 1 A 2 s one-time	
for signal "0" residual current, max.	10 μΑ	
Output delay with resistive load		
• "0" to "1", max.	6 ms	
• "1" to "0", max.	3 ms	
Parallel switching of two outputs		
for uprating	No	
for redundant control of a load	Yes	
Switching frequency		
 with resistive load, max. 	10 Hz	
 with inductive load, max. 	0.5 Hz	
 with inductive load (acc. to IEC 60947-5-1, DC13), max. 	0.5 Hz	

• on lamp load, max.	0.5 Hz
Total current of the outputs (per group)	
horizontal installation	
— up to 40 °C, max.	0.5 A; 8 A per module
— up to 60 °C, max.	0.5 A; 8 A per module
vertical installation	
— up to 40 °C, max.	0.5 A; 8 A per module
Cable length	
shielded, max.	1 000 m
unshielded, max.	600 m
Interrupts/diagnostics/status information	
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 electronics 	Yes
Isolation	
Isolation tested with	1 500 V AC
connection method / header	
required front connector	40-pin
Dimensions	
Width	40 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	260 g

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last modified: