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

Figure similar

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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	

horizontal installation — up to 40 °C, max. — up to 60 °C, max. Vertical installation — up to 40 °C, max. 0.5 A; 8 A per module — up to 40 °C, max. 0.5 A; 8 A per module Cable length • shielded, max. • unshielded, max. • unshielded, max. Interrupts/diagnostics/status information Diagnostics function Alarms • Diagnostic alarm Diagnoses • Diagnostic information readable Diagnostic information readable Yes; Parameterizable Diagnostics indication LED • Group error SF (red) • Status indicator digital output (green) Potential separation Potential separation digital outputs • between the channels in groups of • between the channels and backplane bus • between the channels and the power supply of the electronics Isolation Isolation Isolation Isolation Isolation tested with 1 500 V AC connection method	Total current of the outputs (per group)	
- up to 60 °C, max. vertical installation - up to 40 °C, max. 0.5 A; 8 A per module Cable length • shielded, max. • unshielded, max. • unshielded, max. • unshielded, max. • unshielded, max. • biagnostics function Diagnostics function Alarms • Diagnostic alarm • Diagnostic alarm • Diagnostic information readable Diagnostic information readable • Group error SF (red) • Status indicator digital output (green) Potential separation Potential separation Potential separation digital outputs • between the channels • between the channels and backplane bus • between the channels and the power supply of the electronics Isolation Isolation tested with 1 500 V AC	horizontal installation	
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up to 40 °C, max. Cable length • shielded, max. • unshielded, max. • unshielded, max. • unshielded, max. • unshielded, max. 1 000 m 600 m Interrupts/diagnostics/status information	— up to 60 °C, max.	0.5 A; 8 A per module
Cable length	vertical installation	
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unshielded, max. linterrupts/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; Optocoupler between the channels and backplane bus Yes; Optocoupler between the channels and the power supply of the electronics Isolation Isolation tested with 1 500 V AC	Cable length	
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between the channels and the power supply of the electronics Isolation Isolation tested with 1 500 V AC	 between the channels, in groups of 	1
electronics Isolation Isolation tested with 1 500 V AC	 between the channels and backplane bus 	Yes; Optocoupler
Isolation tested with 1 500 V AC		Yes
	Isolation	
connection method	Isolation tested with	1 500 V AC
	connection method	
required front connector 40-pin	required front connector	40-pin
Dimensions	Dimensions	
Width 40 mm	Width	40 mm
Height 125 mm	Height	125 mm
Depth 120 mm	Depth	120 mm
Weights	Weights	
Weight, approx. 260 g	Weight, approx.	260 g

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