3.18 Digital Output Module SM 322; DO 16 x DC 24 V/ 0.5 A; (6ES7322-1BH01-0AA0)

Order number: "Standard module"

6ES7322-1BH01-0AA0

Order number: "SIPLUS S7-300-Module"

6AG1322-1BH01-2AA0

Characteristics

The digital output module SM 322; DO 16 x 24 VDC/0.5 A has the following salient features:

- 16 outputs, isolated in groups of 8
- 0.5 A output current
- 24 VDC rated load voltage
- Suitable for solenoid valves, DC contactors and indicator lights

Using the module with high-speed counters

Please take note of the following information on the use of the module in connection with high-speed counters:

Note

When connecting the 24 V power supply via a mechanical contact, the outputs of the SM 322; DO 16 x 24 VDC/0.5 A carry a "1" signal for approximately 50 μ s for reasons associated with the circuitry.



Terminal assignment and block diagram of the SM 322; DO 16 x 24 VDC/0.5 A

Figure 3-20 Module View and Block Diagram of the SM 322; DO 16 x 24 VDC/0.5 A

Technical specifications of the SM 322; DO 16 x 24 VDC/0.5 A

Dimensions and Weight		Data for Selecting an Actuator	
Dimensions W x H x D	40 x 125 x 117	Output voltage	
(in millimeters)		 At signal "1" 	min. L + (–0.8 V)
Weight	Approx. 190 g	Output current	
Data for Specific Module		 At signal "1" 	
Supports clocked	No	Rated value	0.5 A
operation		Permitted range	5 mA to 0.6 A
Number of outputs	16	 At signal "0" 	max. 0.5 mA
Length of cable		(leakage current)	
Unshielded	max. 600 m	Output delay	
Shielded	max. 1000 m	(for resistive load)	
Voltages, Currents, Potentials		• From " 0" to "1"	max. 100 μs
Rated load voltage L+	24 VDC	• At "1" to "0"	max. 500 μs
Total current of the outputs		Load resistor range	48 Ω to 4 k Ω
(per group)		Lamp load	max. 5 W
Horizontal configuration		Parallel connection of	
Up to 40 °C	max. 4 A	2 outputs	
 Up to 60 °C Vertical configuration 	max. 3 A	 For redundant triggering of a load 	Possible (only outputs of the same group)
Up to 40 °C	max. 2 A	To increase performance	Not possible
Isolation		Triggering a digital input	Possible
 Between channels and 	Yes	Switch rate	
backplane bus	105	For resistive load	max. 100 Hz
Between the channels	Yes	 Inductive loads according to IEC 947-5-1, DC 13 	max. 0.5 Hz
In groups of	8		
Permitted potential difference		Earlampland	mov 10 H 7
 Between the different 	75 VDC / 60 VAC	• For lamp load	
	500 1/00	circuit interruption voltage up	L + (-53 V), typ.
Insulation tested with	500 VDC	Short-circuit protection of the	Yes, electronic
Current consumption	00	output	,
From the backplane bus		Threshold on	1 A, typ.
 From load voltage L + (without load) 	max. 80 mA		
Power dissipation of the module	typ. 4.9 W		
Status, Interrupts, Diagnostics			
Status display	Green LED per channel		
Interrupts	None		
Diagnostic functions	None		