SIEMENS

Product Information

SIMATIC S7-300

Digital Output Module SM 322; DO 32 X AC 120V/230V/1.0A

Release

New Digital Output Module Available

The S7-300 Digital Output Module SM 322; DO 32 X AC 120V/230V/1.0A has been added to the S7-300 family. The order number for this module is 6ES7 322-1FL00-0AA0.

This product information includes details about the characteristics and technical specifications of the SM 322; DO 32 X AC 120V/230V/1.0A Module. Refer to the *S7-300 Installation and Hardware Manual* for more information about the *S7-300* product family.

Additional Assistance

For assistance in answering technical questions, for training on this product, or for ordering, contact your Siemens distributor or sales office.

Digital Output Module SM 322; DO 32 X AC 120V/230V/1.0A

Order Number

6ES7 322-1FL00-0AA0

Characteristics

The SM 322; DO 32 ♥ AC 120V/230V/1.0 A features the following characteristics:

- 32 outputs, fused and isolated in groups of 8
- 1.0 A output current
- 120 VAC / 230 VAC rated load voltage
- · Blown fuse indicator for each group
- Suitable for AC solenoids, contactors, starters, fractional horsepower motors and indicator lights
- Group error display

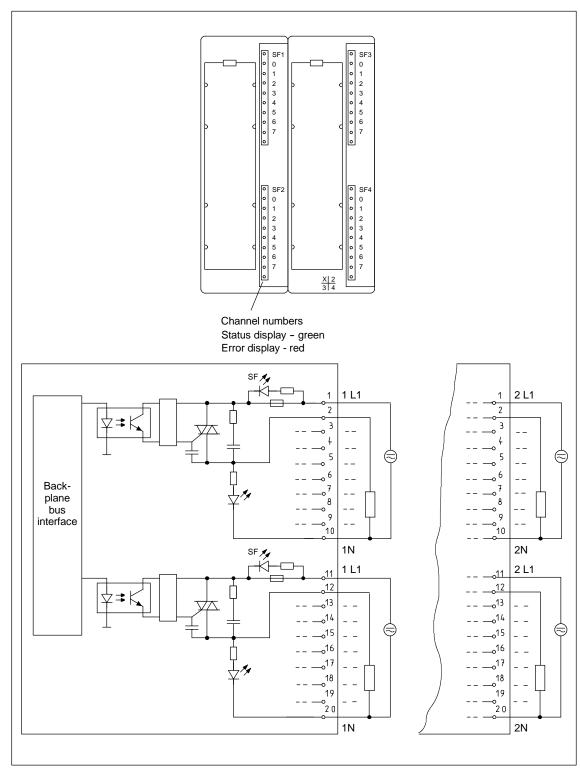


Figure 1 Module View and Block Diagram of the SM 322; D0 32

C AC 120V/230V/1.0 A

Terminal Assignment

The following figure shows the assignment of the channels to the addresses.

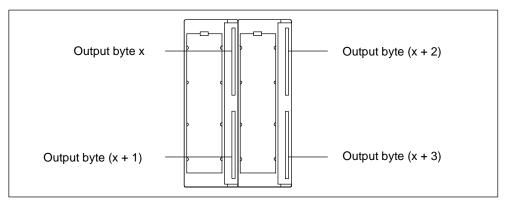


Figure 2 Terminal Assignment of the SM 322; DO 32 \times AC 120V/230V/1.0A

Technical Specification of the SM 322; DO 32 \times AC 120V/230V/1.0 A

Dimensions and Weight		Status, Interrupts, Diagnostics	
Dimensions W×H×D (in millimeters)	80¢125¢117	Status display	Green LED per channel
,	Approx. FOO a	Interrupts	No
Weight	Approx. 500 g	Diagnostic functions	Yes
Data for Specific Module		Group error display	Red LED (SF)
Supports clocked operation	No	Data for Selecting an Actuator	
Number of outputs	32	Output voltage	14 (0.0 \)
Length of cable		At signal "1"	min. L1 (-0.8 V)
Unshielded	max. 600 m	Output current	
Shielded	max. 1000 m	At "1" signal	
Voltages, Currents	, Potentials	Rated value	1 A
Rated load voltage L1	AC 120V/230V	Permitted range	10 mA to 1 A
Permitted frequency range	47 Hz to 63 Hz	Permitted current surge (per group)	10 A (for 2 AC scan cycles)
Total current of the outputs (per group)		At "0" signal Leakage current	max. 2 mA
 Horizontal configuration Up to 60°C Up to 40°C 	max. 3 A max. 4 A	Output delay (for resistive load)	
		• At "0" to "1"	1 AC scan cycle
Vertical configuration	max. 4 A	• At "1" to "0"	1 AC scan cycle
Up to 40°C		Zero cross inhibit voltage	max. 60 V
Isolation		Size of the motor starter	max. size 4 to NEMA
 Between channels and backplane bus 	Yes	Lamp load	max. 50 W
Between the channels	Yes	Parallel connection of 2 outputs	
In groups of	8	For redundant	Possible (only outputs
Permitted potential difference		actuation of a load	of the same group)
 Between M_{internal} and the outputs 	250 VAC	To increase performance	Not possible
Between the outputs of the	250 VAC	Triggering a digital input	Possible
different groups	ZJU VAC	Switch rate	
Insulation tested with	4000 VDC	For resistive loadInductive loads, according	max. 10 Hz max. 0.5 Hz
Current consumption		to IEC 947-5-1, AC 15	
From the backplane bus	max. 190 mA	For lamp load	1 Hz
From load voltage L1 (without load)	max. 10 mA	Short-circuit protection of the output	No
Power dissipation of the module	typ. max. 25 W		