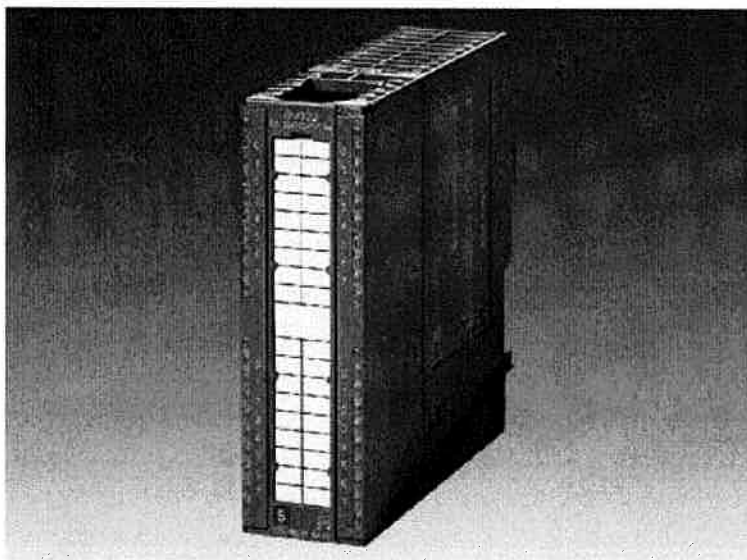


## Digital input/output modules - SM 322 output module



### Overview

#### Application

Digital output modules convert the internal signal levels of the S7-300 to the external signal levels required for the process. The modules are suitable for the connection of such equipment as solenoid valves, contactors, small motors, lamps and motor starters.

#### Design

Digital output modules are characterized by the following mechanical features:

- Compact design:
  - Green LEDs to indicate signal states at the outputs
  - Front connector protected by the front cover
  - Labeling area on the front cover.
- Easy assembly:
  - There are no slot rules: The output addresses are defined by the slots.
- User-friendly wiring.

## Technical data

<b>SM 322 6ES7 322-</b>	<b>1BH01-0AA0 1BH81-0AA0 1)</b>	<b>1BL00-0AA0</b>	<b>8BF00-0AB0 2)</b>
Number of outputs	16	32	8
Rated load voltage			
• Rated value	24 V DC	24 V DC	24 V DC
• Acceptable range	20.4 to 28.8V	20.4 to 28.8V	20.4 to 28.8 V
Isolation	Optocoupler		
Output current			
• for "1" signal	0.5 A	0.5 A	0.5 A
• for "0" signal	0.5 mA	0.5 mA	0.5 mA
Power loss	4.9 W	5 W	5 W
Dimensions (W x H x D) in mm	40 x 125 x 120		
Weight, approx.	190 g	210 g	210 g

<b>SM 322 6ES7 322-</b>	<b>1BF01-0AA0</b>	<b>1FF01-0AA0 1FF81-0AA0</b>	<b>1EH01-0AA0</b>
Number of outputs	8	8	16
Rated load voltage			
• Rated value	24 V DC	120/230 V AC	120 V AC
• Acceptable range	20.4 to 28.8 V	93 to 132 V/ 187 to 264 V	93 to 132 V Optocoupler
Isolation	Optocoupler		
Output current			
• for "1" signal	2 A	1 A	0.5 A
• for "0" signal	0.5 mA	2 mA	1 mA
Power loss	6.8 W	8.6 W	40 x 125 x 120
Dimensions (W x H x D) in mm	40 x 125 x 120		
Weight, approx.	190 g	275 g	300 g

<b>SM 322 6ES7 322-</b>	<b>1EL00-0AA0</b>	<b>1HF01-0AA0</b>
Number of outputs	16	8
Rated load voltage		
• Rated value	120 V AC	24 V DC AC to 230 V
• Acceptable range	93 to 132 V	-
Isolation	Optocoupler	Optocoupler
Output current		
• for "1" signal	1 A	-

• for "0" signal	3 mA	-
Power loss	2.5 W	2.2 W
Dimensions (W x H x D) in mm	80 x 125 x 120	40 x 125 x 120
Weight, approx.	500 g	190 g

<b>SM 322 6ES7 322-</b>	<b>1HH10-0AA0</b>	<b>1HH00-0AA0</b>
Number of outputs	16	16
Rated load voltage		
• Rated value	24 V DC AC to 120 V	24 V DC AC to 120 V
• Acceptable range	-	-
Isolation	Optocoupler	Optocoupler
Output current		
• for "1" signal	-	-
• for "0" signal	-	-
Power loss	4.2 W	4.5 W
Dimensions (W x H x D) in mm	40 x 125 x 120	40 x 125 x 120
Weight, approx.	320 g	250 g

- 1) With extended temperature range
- 2) When the CPU stops, the module can hold the last value (byte) or switch a substitute value (byte) to the outputs. Diagnostics via CPU analysis and color change of the LED on each channel from green to red.