

Overview



- Digital inputs and outputs
- For connecting standard switches, two-wire proximity switches (BERO), solenoid valves, contactors, low-power motors, lamps and motor starters

Technical specifications

SM 323	6ES7 323-1BH01-0AA0	6ES7 323-1BL00-0AA0
Inputs		
• Number	8	16
Interrupts	-	-
Diagnostics	-	-
Rated load voltage		
• Rated value	24 V DC	24 V DC
• Permissible range	20.4 to 28.8 V	20.4 to 28.8 V
Input voltage		
• Rated value	24 V DC	24 V DC
• For "1" signal	13 to 30 V	13 to 30 V
• For "0" signal	-30 to + 5 V	-30 to + 5 V
• Frequency	-	-
Electrical isolation to backplane bus	Optocoupler	Optocoupler
• In groups of	8	16
Input current		
• For "1" signal, typ.	7 mA	7 mA
Input delay time		
• Configurable	-	-
• At rated input voltage, typ.	1.2 to 4.8 ms	1.2 to 4.8 ms
No. of simultaneously controllable inputs		
• Up to 40°C	8	16
• Up to 60°C	8	8
Connection of 2-wire BERO	Possible	Possible
• Permissible quiescent current, max.	2 mA	1.5 mA

ET 200 distributed I/Os

ET 200M

SM 323/SM 327 digital input/output modules

Technical specifications (continued)

SM 323	6ES7 323-1BH01-0AA0	6ES7 323-1BL00-0AA0
Outputs		
• Number	8	16
Interrupts	-	-
Diagnostics	-	-
Rated load voltage L+/L1	24 V DC	24 V DC
• Permissible range	20.4 to 28.8 V	20.4 to 28.8 V
Output voltage		
• For "1" signal	L+ - 0.8 V	L+ - 0.8 V
Electrical isolation	Optocoupler	Optocoupler
• In groups of	8	8
Maximum output current		
• For "1" signal		
- rated value at 60 °C	0.5 A	0.5 A
- minimum current	5 mA	5 mA
• For "0" signal, max.	0.5 mA	0.5 mA
Total current of the outputs (per group)		
• Up to 40°C	4 A	4 A
• Up to 60°C (horiz. mounting)	4 A	3 A
Lamp load, max.	5 W	5 W
Switching frequency of outputs		
• Ohmic load, max.	100 Hz	100 Hz
• Inductive loads, max.	0.5 Hz	0.5 Hz
• For a lamp load	100 Hz	100 Hz
Voltage induced on circuit interruption limited to	L+ - 48 V	L+ - 48 V
Short-circuit protection	Electronic	Electronic
General		
Cable length	600 m	600 m
• Unshielded	1000 m	1000 m
• Shielded		
Current consumption		
• From backplane bus, max.	40 mA	80 mA
• From L+/L1 (without load)	20 mA	100 mA
Power losses, typically	4.5 W	6.5 W
Electrical isolation tested at	500 V DC	600 V DC
Dimensions (W x H x D) in mm	40 x 125 x 120	40 x 125 x 120
Required front connector	20-pin	40-pin
Weight, approx.	220 g	260 g

ET 200 distributed I/Os

ET 200M

SM 323/SM 327 digital input/output modules

Ordering data

Order No.

SM 323 digital I/O modules

incl. labeling strips,
bus connectors

- 8 inputs, 8 outputs
- 16 inputs, 16 outputs

6ES7 323-1BH01-0AA0

6ES7 323-1BL00-0AA0

SIPLUS SM 323 digital I/O modules for amplified temperature range

incl. labeling strips,
bus connectors

- 8 inputs, 8 outputs

6AG1 323-1BH01-2AA0

SM 327 digital I/O modules

incl. labeling strips,
bus connectors

8 inputs, 8 inputs or outputs
(configurable)

6ES7 327-1BH00-0AB0

Front connector

20-pin, screw-type terminals

- 1 item
- 100 items

6ES7 392-1AJ00-0AA0

6ES7 392-1AJ00-1AB0

20-pin, with spring-clamp terminals

6ES7 392-1BJ00-0AA0

40-pin, screw-type contacts

- 1 item
- 100 items

6ES7 392-1AM00-0AA0

6ES7 392-1AM00-1AB0

40-pin with cage clamp contacts

6ES7 392-1BM01-0AA0

Front door, enhanced version

e.g., for 32-channel modules;
supports the connection of
1.3 mm²/16 AWG wires

6ES7 328-0AA00-7AA0

SIMATIC TOP connect

See Catalog ST 70

Bus connectors

1 item (spare part)

6ES7 390-0AA00-0AA0

Labeling strips.

10 items (spare part)

- For signal modules (not 32-channel), function modules
- For 32-channel signal modules

6ES7 392-2XX00-0AA0

6ES7 392-2XX10-0AA0

Label cover

10 items (spare part)

- For signal modules (not 32-channel), function modules
- For 32-channel signal modules

6ES7 392-2XY00-0AA0

6ES7 392-2XY10-0AA0

S7 SmartLabel

Software for labeling modules
mechanically directly in the
STEP 7 project

2XV9 450-1SL01-0YX0

Sheets of labels for machine inscription

For 16-channel signal modules,
DIN A4, for printing using a laser
printer; 10 items

- Petrol
- Light beige
- Yellow
- Red

6ES7 392-2AX00-0AA0

6ES7 392-2BX00-0AA0

6ES7 392-2CX00-0AA0

6ES7 392-2DX00-0AA0

For 32-channel signal modules,
DIN A4, for printing using a laser
printer; 10 items

- Petrol
- Light beige
- Yellow
- Red

6ES7 392-2AX10-0AA0

6ES7 392-2BX10-0AA0

6ES7 392-2CX10-0AA0

6ES7 392-2DX10-0AA0

SIMATIC Manual Collection

Electronic manuals on CD-ROM,
multilingual: S7-200, TD 200, S7-
300, C7, S7-400, STEP 7, Engi-
neering Tools, Runtime Software,
SIMATIC DP (Distributed I/O),
SIMATIC HMI (Human Machine
Interface), SIMATIC NET (Indus-
trial Communication)

6ES7 998-8XC01-8YE0

SIMATIC Manual Collection update service for 1 year

Up-to-date Manual Collection CD
as well as the three subsequent
updates

6ES7 998-8XC01-8YE2

S7-300 Manual

Configuration, CPU data, module
data, command list

- German
- English
- French
- Spanish
- Italian

6ES7 398-8FA10-8AA0

6ES7 398-8FA10-8BA0

6ES7 398-8FA10-8CA0

6ES7 398-8FA10-8DA0

6ES7 398-8FA10-8EA0