

INDUSTRIAL AUTOMATION PRODUCT

6ES7322-1HH01-0AA0

SIMATIC S7-300 SM 322 16-Relay Digital Output Module

Siemens 6ES7322-1HH01-0AA0 is a SIMATIC S7-300 SM 322 digital output module with 16 isolated relay-contact outputs. It uses a 20-pole front connector and switches documented AC or DC field loads.

CONTROLLED ENGINEERING COPY

IDENTITY	VERIFIED VALUE
Manufacturer	Siemens
System family	SIMATIC S7-300
Part number	6ES7322-1HH01-0AA0
Document status	Controlled product and system reference

DOCUMENT SCOPE

Exact article identity, official technical data, host matching, installation checks, applications, precautions and controlled acceptance evidence.

MODEL-SPECIFIC ENGINEERING NOTE

Install 6ES7322-1HH01-0AA0 only in the documented SIMATIC S7-300 position and preserve its exact wiring, interfaces and configuration. After controlled energization, verify diagnostics and switching sixteen isolated relay-contact field loads from a documented S7-300 station before service release.

System Role and Architecture

Siemens 6ES7322-1HH01-0AA0 is a SIMATIC S7-300 SM 322 digital output module with 16 isolated relay-contact outputs. It uses a 20-pole front connector and switches documented AC or DC field loads.

FUNCTION 1
Sixteen relay-contact outputs

FUNCTION 2
Two isolated groups of eight

FUNCTION 3
24-120 V DC or 24-230 V AC loads

FUNCTION 4
20-pole front connector

RELATED APTER POWER PAGES					
1	Siemens 6SL3246-0BA22-1FA0	2	Siemens 6SL3210-1PE21-8AL0	3	Siemens 6SL3210-1PE21-1AL0
4	Siemens A5F00133580-014-C98043-A7100	5	Siemens C98043-A7005-L1-6RY1704-0AA00	6	Siemens 6SL3246-0BA22-1PA0-V-4-7
7	Siemens C98043-A7042-L1-6	8	Siemens 6SL3310-1GE35-0AA3	9	Siemens 6SL3210-1PE31-8AL0

MATCHED SYSTEM COMPONENTS

NO.	DOCUMENTED COMPONENT / ROLE
01	SIMATIC S7-300
02	Matched SIMATIC S7-300 host or field system
03	Documented power, signal, communication and protective interfaces
04	Approved engineering configuration and acceptance record

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	SIMATIC S7-300
Interface role	switching sixteen isolated relay-contact field loads from a documented S7-300 station
Field / power context	documented SIMATIC S7-300 installation
Commissioning evidence	Identity, wiring, configuration, diagnostics and controlled response recorded

INSTALLATION AND CONNECTION CHECKS

- 1

Confirm the complete 6ES7322-1HH01-0AA0 marking and the documented SIMATIC S7-300 SM 322 16-Relay Digital Output Module execution.
- 2

Place the machine, controller and affected process in the approved maintenance state.
- 3

Isolate all hazardous energy and prove the safe state before disconnecting hardware.
- 4

Record the installed position, every terminal or port, and the active engineering configuration.

Technical Specifications

Technical values below are limited to the named product record and directly applicable manufacturer documentation.

PARAMETER	VALUE	PARAMETER	VALUE
Product designation	SM 322 digital output module	Relay-coil supply	24 V DC
Host system	SIMATIC S7-300	Switching frequency, resistive load	1 Hz maximum
Digital outputs	16 relay contacts	Switching frequency, inductive load	0.5 Hz maximum
Isolation groups	2 groups of 8 outputs	Switching frequency, lamp load	1 Hz maximum
Front connector	1 x 20-pole	Mechanical switching frequency	10 Hz maximum
Load voltage DC	24 to 120 V DC	Backplane current	100 mA maximum at 5 V DC
Load voltage AC	24 to 230 V AC	24 V supply current	250 mA maximum
Nominal output current	2 A	Power loss	4.5 W typical
Minimum load current	10 mA	Lifecycle status	Product phase-out since 1 October 2023

RELATED PRODUCT PAGES

1Siemens 6SL3246-0BA22-1FA0

2Siemens 6SL3210-1PE21-8AL0

3Siemens 6SL3210-1PE21-1AL0

4Siemens A5F00133580-014-C98043-A7100

5Siemens C98043-A7005-L1-6RY1704-0AA00

6Siemens 6SL3246-0BA22-1PA0-V-4-7

7Siemens C98043-A7042-L1-6

8Siemens 6SL3310-1GE35-0AA3

9Siemens 6SL3210-1PE31-8AL0

ENGINEERING BOUNDARY

Confirm 6ES7322-1HH01-0AA0, its exact SIMATIC S7-300 host, power source, installed position, interfaces, configuration, diagnostics and controlled acceptance evidence before release.

PRE-INSTALLATION CHECKS

- 1

Confirm the complete 6ES7322-1HH01-0AA0 marking and the documented SIMATIC S7-300 SM 322 16-Relay Digital Output Module
- 2

Place the machine, controller and affected process in the approved maintenance state.
- 3

Isolate all hazardous energy and prove the safe state before disconnecting hardware.
- 4

Record the installed position, every terminal or port, and the active engineering configuration.

Applications and Engineering Context

Contactor and starter control

Switches documented AC or DC coils through the approved relay contacts.

Solenoid-valve control

Operates field solenoids within the specified load and switching limits.

Signal-lamp output

Controls documented indication circuits from an S7-300 output image.

Legacy SM 322 replacement

Restores the exact slot, connector, supply groups and output assignments.

TECHNICAL NOTE

Install 6ES7322-1HH01-0AA0 only in the documented SIMATIC S7-300 position and preserve its exact wiring, interfaces and configuration. After controlled energization, verify diagnostics and switching sixteen isolated relay-contact field loads from a documented S7-300 station before service release.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	6ES7322-1HH01-0AA0 recorded
Host / carrier	SIMATIC S7-300
Physical interface	Installed terminals, ports and signal paths matched to the as-found record
Configuration	Approved hardware and engineering configuration restored
Functional proof	Controlled test confirms switching sixteen isolated relay-contact field loads from a documented S7-300 station

IMPORTANT NOTICE

Confirm 6ES7322-1HH01-0AA0, its exact SIMATIC S7-300 host, power source, installed position, interfaces, configuration, diagnostics and controlled acceptance evidence before release.

Related Products and Source Record

Brand-qualified Apter Power navigation links are provided for system planning only; manufacturer evidence remains the named source record.

RELATED PRODUCTS ON APTER POWER

1

Siemens 6SL3246-0BA22-1FA0

View Siemens 6SL3246-0BA22-1FA0 page

2

Siemens 6SL3210-1PE21-8AL0

View Siemens 6SL3210-1PE21-8AL0 page

3

Siemens 6SL3210-1PE21-1AL0

View Siemens 6SL3210-1PE21-1AL0 page

4

Siemens A5F00133580-014-C98043-A7100

View Siemens A5F00133580-014-C98043-A7100 page

5

Siemens C98043-A7005-L1-6RY1704-0AA00

View Siemens C98043-A7005-L1-6RY1704-0AA00 page

6

Siemens 6SL3246-0BA22-1PA0-V-4-7

View Siemens 6SL3246-0BA22-1PA0-V-4-7 page

7

Siemens C98043-A7042-L1-6

View Siemens C98043-A7042-L1-6 page

8

Siemens 6SL3310-1GE35-0AA3

View Siemens 6SL3310-1GE35-0AA3 page

9

Siemens 6SL3210-1PE31-8AL0

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MANUFACTURER SOURCE RECORD

Siemens Industry Mall exact-article record and SIMATIC S7-300 Module Data manual for 6ES7322-1HH01-0AA0 | Official manufacturer evidence verified 30 September 2026

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RECOMMENDATION SCOPE

These links support product navigation and comparison. Technical values in this document are sourced only from the manufacturer record above.