

INDUSTRIAL AUTOMATION PRODUCT

6ES7332-5HD01-0AB0

SIMATIC S7-300 SM 332 Analog Output Module

Siemens 6ES7332-5HD01-0AB0 is an SM 332 four-channel analog output module for the SIMATIC S7-300. It supplies configured voltage or current signals to field actuators from the controller output image.

IDENTITY	VERIFIED VALUE
Manufacturer	Siemens
System family	SIMATIC S7-300 signal modules
Part number	6ES7332-5HD01-0AB0
HS code	8537101190

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Technical Specifications

Technical values below are limited to the named Siemens product record.

PARAMETER	TECHNICAL VALUE
Module designation	SM 332; AO 4 x 12 Bit
Analog outputs	4
Rated load voltage	24 V DC
Load current from L+	240 mA maximum
Backplane current	60 mA maximum
Power loss	3 W typical
Voltage ranges	0–10 V; 1–5 V; –10...+10 V
Current ranges	0–20 mA; –20...+20 mA; 4–20 mA
Voltage-load impedance	1 k Ω minimum; 1 μ F maximum capacitive
Current-load impedance	500 Ω maximum; 10 mH maximum inductive
Short-circuit current	25 mA maximum
Resolution	12 bit; 11 bit + sign for bipolar ranges
Conversion time	0.8 ms per channel
Shielded cable length	200 m maximum
Front connector	20-pin
Isolation test voltage	500 V DC
Output diagnostics	Parameterizable
Order number	6ES7332-5HD01-0AB0

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System Role and Architecture

Siemens 6ES7332-5HD01-0AB0 is an SM 332 four-channel analog output module for the SIMATIC S7-300. It supplies configured voltage or current signals to field actuators from the controller output image.

FUNCTION 1

Converts S7-300 output words into four isolated analog channels

FUNCTION 2

Provides voltage or current command signals for field actuators

FUNCTION 3

Supports parameterized diagnostics and substitute values

FUNCTION 4

Maintains galvanic separation between outputs, backplane and load circuits

Matched system components

- SIMATIC S7-300 rack and backplane
- 20-pin front connector
- Shielded actuator cables
- STEP 7 hardware configuration

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	SIMATIC S7-300 rack and backplane
Companion hardware	20-pin front connector
Field connection	Shielded actuator cables
Primary system function	Converts S7-300 output words into four isolated analog channels
Controlled acceptance duty	Control-valve positioning

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Applications and Engineering Context

Control-valve positioning

Converts S7-300 output words into four isolated analog channels

Variable-speed drive reference

Provides voltage or current command signals for field actuators

Distributed analog setpoint generation

Supports parameterized diagnostics and substitute values

Redundant S7-400H analog-output applications

Maintains galvanic separation between outputs, backplane and load circuits

TECHNICAL NOTE

Install the module in the assigned S7-300 rack position, wire the 20-pin front connector to the selected voltage or current circuit, and validate channel scaling with a controlled output test.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	6ES7332-5HD01-0AB0 / 6ES7332-5HD01-0AB0 recorded
Physical interface	SIMATIC S7-300 rack and backplane
Companion check	20-pin front connector
Functional proof	Converts S7-300 output words into four isolated analog channels
Application test	Control-valve positioning

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Engineering Precautions

1

Verify the complete 6ES7332-5HD01-0AB0 marking and the assigned SIMATIC S7-300 signal modules position before field work.

2

Isolate the applicable power, bus and field energy before disconnecting 6ES7332-5HD01-0AB0.

3

Use ESD controls and protect the keyed connectors and backplane interface of 6ES7332-5HD01-0AB0.

4

Record the installed wiring, station address and configuration before replacement of 6ES7332-5HD01-0AB0.

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Confirm SIMATIC S7-300 rack and backplane and 20-pin front connector against the approved project configuration.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
6ES7153-2AA02-0XB0	SIMATIC ET 200M interface module	View 6ES7153-2AA02-0XB0 page
6ED1052-1MD00-0BA5	LOGO! modular logic module	View 6ED1052-1MD00-0BA5 page
6ES7432-1HF00-0AB0	SIMATIC S7-400 analog output module	View 6ES7432-1HF00-0AB0 page
6EP1434-2BA20	SITOP industrial power supply	View 6EP1434-2BA20 page
6ES7414-3EM07-0AB0	SIMATIC S7-400 CPU	View 6ES7414-3EM07-0AB0 page
6GK1561-2AA00	SIMATIC PROFIBUS communications adapter	View 6GK1561-2AA00 page
6ES7590-1AB60-0AA0	SIMATIC S7-1500 front connector	View 6ES7590-1AB60-0AA0 page
6AV2124-0QC02-0AX1	SIMATIC HMI operator panel	View 6AV2124-0QC02-0AX1 page

MANUFACTURER SOURCE RECORD

Siemens S7-300 Module Data Equipment Manual
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