

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.

PRODUCT SNAPSHOT

BRAND

Siemens

FAMILY

SIMATIC S7-300 signal modules

PART

6ES7332-5HD01-0AB0

HS CODE

8537101190

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PRODUCT OVERVIEW

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.

1

Converts S7-300 output words into four isolated analog channels

2

Provides voltage or current command signals for field actuators

3

Supports parameterized diagnostics and substitute values

4

Maintains galvanic separation between outputs, backplane and load circuits

SYSTEM COMPONENTS

SIMATIC S7-300 rack and backplane

20-pin front connector

Shielded actuator cables

STEP 7 hardware configuration

TECHNICAL DATA

PARAMETER	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

PARAMETER	VALUE
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

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

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.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

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

PRODUCT 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.
- 5 Confirm SIMATIC S7-300 rack and backplane and 20-pin front connector against the approved project configuration.
- 6 Restore 6ES7332-5HD01-0AB0 under controlled conditions and review module diagnostics before release.
- 7 Run a limited functional test for control-valve positioning before returning the process to automatic control.
- 8 Retain the as-left settings, diagnostic status and test evidence for 6ES7332-5HD01-0AB0 in the maintenance record.

ENGINEER FAQ

Q1 Does 6ES7332-5HD01-0AB0 match SIMATIC S7-300 rack and backplane in a Control-valve positioning installation?

Verify the complete 6ES7332-5HD01-0AB0 marking, the documented SIMATIC S7-300 signal modules position and the installed SIMATIC S7-300 rack and backplane before fitting the assembly.

Q3 Which SIMATIC S7-300 signal modules records should be captured before removing 6ES7332-5HD01-0AB0?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with 6ES7332-5HD01-0AB0 before disconnection.

Q5 Which 20-pin front connector condition should be checked when 6ES7332-5HD01-0AB0 reports an abnormal state?

Check the 20-pin front connector supply, seating and connection first, then compare channel diagnostics with the recorded 6ES7332-5HD01-0AB0 baseline.

Q7 What maintenance evidence is required after 6ES7332-5HD01-0AB0 is used for Distributed analog setpoint generation?

Retain the nameplate record, corrective action, final diagnostics and a controlled distributed analog setpoint generation functional-test result for 6ES7332-5HD01-0AB0.

Q2 How should 6ES7332-5HD01-0AB0 be wired when it must converts s7-300 output words into four isolated analog channels?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for 6ES7332-5HD01-0AB0; then continuity-test the affected path.

Q4 What controlled test confirms that 6ES7332-5HD01-0AB0 can provides voltage or current command signals for field actuators?

Apply the approved field or simulated stimulus, observe the SIMATIC S7-300 signal modules indication and confirm the intended response without bypassing the normal interlocks.

Q6 Can 6ES7332-5HD01-0AB0 be moved directly into Variable-speed drive reference without validating STEP 7 hardware configuration?

No. Confirm the STEP 7 hardware configuration, revision, connection scheme and SIMATIC S7-300 signal modules configuration before transferring 6ES7332-5HD01-0AB0 to that duty.

Q8 How should 6ES7332-5HD01-0AB0 be returned to service in Redundant S7-400H analog-output applications?

Restore power under control, verify supports parameterized diagnostics and substitute values, exercise the intended signal path and release 6ES7332-5HD01-0AB0 only after the SIMATIC S7-300 signal modules remains in its approved operating state.