

APTER POWER PRODUCT MANUAL

6ES7212-1HE40-0XB0

SIMATIC S7-1200 CPU 1212C DC/DC/Relay Compact CPU

The Siemens 6ES7212-1HE40-0XB0 is a SIMATIC S7-1200 CPU 1212C DC/DC/Relay Compact CPU that combines a 24 V DC CPU supply with relay outputs, integrated analog inputs, and compact S7-1200 expansion.

In a correctly engineered SIMATIC S7-1200 installation, it acquires eight 24 V DC inputs and two analog signals, runs the control program, and switches six relay-output circuits. It works with the exact host hardware, power, wiring, field devices, firmware, and project configuration published for this complete article number. It is applied in 24 V DC control panels that must operate mixed AC or DC loads through onboard relays.

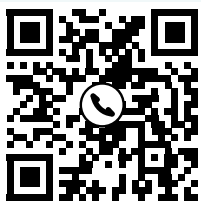
Manufacturer	Siemens
Prepared by	Apter Power
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APTER POWER SALES TEAM

INDUSTRIAL AUTOMATION PRODUCT SUPPORT

DC-powered logic. Relay-load freedom. Balanced 1212C expansion.

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6ES7212-1HE40-0XB0

1. Product Overview and Identity

The Siemens 6ES7212-1HE40-0XB0 is a SIMATIC S7-1200 CPU 1212C DC/DC/Relay Compact CPU that combines a 24 V DC CPU supply with relay outputs, integrated analog inputs, and compact S7-1200 expansion.

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Model Configuration

Field	Verified information
Complete model	6ES7212-1HE40-0XB0
Manufacturer	Siemens
Product description	SIMATIC S7-1200 CPU 1212C DC/DC/Relay Compact CPU

Key Features

- Exact Siemens article number 6ES7212-1HE40-0XB0
- SIMATIC S7-1200 CPU 1212C DC/DC/Relay Compact CPU
- 8 DI 24 V DC; 6 relay DO, 2 A; 2 AI 0 to 10 V DC
- 24 V DC; 20.4 to 28.8 V DC
- 90 x 100 x 75 mm
- 0.385 kg approximate published weight

2. Technical Specifications

Only manufacturer-confirmed information is stated. Values absent from the named Siemens source are marked for nameplate or document verification.

Parameter	Verified value
Product type	SIMATIC S7-1200 CPU 1212C DC/DC/Relay Compact CPU
Complete article number	6ES7212-1HE40-0XB0
Product type designation	CPU 1212C DC/DC/Relay
System	SIMATIC S7-1200
Supply voltage	24 V DC; 20.4 to 28.8 V DC
Integrated I/O	8 DI 24 V DC; 6 relay DO, 2 A; 2 AI 0 to 10 V DC
Work memory	100 KB
PROFINET	1 PROFINET port
Supported local expansion	1 signal board, up to 2 signal modules, and up to 3 communication modules
IP degree of protection	IP20
Device dimensions	90 x 100 x 75 mm (W x H x D)
Approximate device weight	0.385 kg
Country of origin	Germany
Lifecycle	Siemens Industry Mall lists the complete article number as a PM300 Active Product. Confirm the current regional lifecycle, delivery status, firmware, and engineering-software requirements when quoting.

Verification Note

Use the complete 6ES7212-1HE40-0XB0 identifier. Siemens Industry Mall lists the complete article number as a PM300 Active Product. Confirm the current regional lifecycle, delivery status, firmware, and engineering-software requirements when quoting. Values not published in the cited Siemens sources are intentionally not inferred.

3. Functions, Applications and Components

Core Functions

- Acquires eight 24 V DC inputs and two analog signals, runs the control program, and switches six relay-output circuits.
- Maintains the documented CPU 1212C DC/DC/Relay role for the complete 6ES7212-1HE40-0XB0 article number.
- Provides a model-specific basis for engineering, wiring, commissioning, diagnostics, and replacement verification.

Application Areas

Application	System role
Machine sequence control	Executes PLC logic while processing 8 di 24 v dc; 6 relay do, 2 a; 2 ai 0 to 10 v dc
Mixed-voltage load switching	Switches compatible AC or DC loads within the published relay limits
Analog process acquisition	Converts the integrated 0 to 10 V inputs for limits, scaling, trends, and closed-loop logic
PROFINET automation	Coordinates HMI, distributed I/O, drives, and controllers for 24 V DC control panels that must operate mixed AC or DC loads through onboard relays

Compatible Components

- SIMATIC S7-1200 hardware configuration explicitly supporting 6ES7212-1HE40-0XB0
- STEP 7 / TIA Portal version and CPU firmware stated in the current Siemens data sheet
- SIMATIC Memory Card, signal board, signal modules, and communication modules within the published CPU 1212C DC/DC/Relay limits
- 24 V DC sensors, analog transmitters, output loads, PROFINET devices, connectors, shielding, and circuit protection engineered to Siemens ratings

Lifecycle Status

Siemens Industry Mall lists the complete article number as a PM300 Active Product. Confirm the current regional lifecycle, delivery status, firmware, and engineering-software requirements when quoting.

4. Installation Precautions

- Confirm every character of 6ES7212-1HE40-0XB0, the CPU 1212C DC/DC/Relay marking, hardware revision, and firmware against the TIA Portal project.
- Isolate power and verify 24 V DC; 20.4 to 28.8 V DC; follow Siemens conductor, terminal, grounding, and circuit-protection requirements.
- Check relay contact voltage, 2 A resistive-load limit, output-group commons, fusing, and load suppression before connecting field loads.
- Separate analog and communication wiring from power conductors; terminate shields and references according to the S7-1200 system manual.
- Restore the verified project, commission inputs and outputs by circuit group, test network and fault behavior, and record the results.

STOP - Verify before installation

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Use the physical nameplate and current Siemens documents as the controlling records.

5. Official Source and Use Notice

Official source

Siemens official technical data sheet for 6ES7212-1HE40-0XB0: <https://support.industry.siemens.com/teddatasheet/?caller=SIOS&format=pdf&language=en&mlfbs=6ES7212-1HE40-0XB0>; Siemens official S7-1200 System Manual landing page: <https://support.industry.siemens.com/cs/ww/en/view/109759862>

Apter Power product page

<https://www.apterpower.com/Siemens/6es7212-1he40-0xb0>

Use Notice

This is an original Apter Power product-specific reference prepared from the Siemens source named above. It is not a Siemens publication and does not replace the original data sheet, nameplate, certificate, installation drawing, safety instructions, or machine-builder documentation.

ASK FOR QUOTE

For availability and quotation details, visit www.apterpower.com or contact sales13@apterpower.com.