

APTER POWER PRODUCT MANUAL

6ES7214-1HG40-0XB0

SIMATIC S7-1200 CPU 1214C DC/DC/Relay Compact CPU

The Siemens 6ES7214-1HG40-0XB0 is a SIMATIC S7-1200 CPU 1214C DC/DC/Relay Compact CPU that uses a 24 V DC CPU supply while providing ten relay outputs, analog inputs, PROFINET, and modular expansion.

In a correctly engineered SIMATIC S7-1200 installation, it reads fourteen digital and two analog signals, executes sequential and process logic, and switches ten relay-output loads. 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 DC control cabinets that need onboard relay isolation and room for additional signal modules.

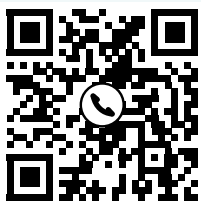
Manufacturer	Siemens
Prepared by	Apter Power
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APTER POWER SALES TEAM

INDUSTRIAL AUTOMATION PRODUCT SUPPORT

DC supply. Ten relay outputs. Flexible 1214C machine coordination.

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SCAN FOR PRODUCT & QUOTE
6ES7214-1HG40-0XB0

1. Product Overview and Identity

The Siemens 6ES7214-1HG40-0XB0 is a SIMATIC S7-1200 CPU 1214C DC/DC/Relay Compact CPU that uses a 24 V DC CPU supply while providing ten relay outputs, analog inputs, PROFINET, and modular expansion.

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Model Configuration

Field	Verified information
Complete model	6ES7214-1HG40-0XB0
Manufacturer	Siemens
Product description	SIMATIC S7-1200 CPU 1214C DC/DC/Relay Compact CPU

Key Features

- Exact Siemens article number 6ES7214-1HG40-0XB0
- SIMATIC S7-1200 CPU 1214C DC/DC/Relay Compact CPU
- 14 DI 24 V DC; 10 relay DO, 2 A; 2 AI 0 to 10 V DC
- 24 V DC; 20.4 to 28.8 V DC
- 110 x 100 x 75 mm
- 0.435 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 1214C DC/DC/Relay Compact CPU
Complete article number	6ES7214-1HG40-0XB0
Product type designation	CPU 1214C DC/DC/Relay
System	SIMATIC S7-1200
Supply voltage	24 V DC; 20.4 to 28.8 V DC
Integrated I/O	14 DI 24 V DC; 10 relay DO, 2 A; 2 AI 0 to 10 V DC
Work memory	150 KB
PROFINET	1 PROFINET port
Supported local expansion	1 signal board, up to 8 signal modules, and up to 3 communication modules
IP degree of protection	IP20
Device dimensions	110 x 100 x 75 mm (W x H x D)
Approximate device weight	0.435 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 6ES7214-1HG40-0XB0 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

- Reads fourteen digital and two analog signals, executes sequential and process logic, and switches ten relay-output loads.
- Maintains the documented CPU 1214C DC/DC/Relay role for the complete 6ES7214-1HG40-0XB0 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 14 di 24 v dc; 10 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 DC control cabinets that need onboard relay isolation and room for additional signal modules

Compatible Components

- SIMATIC S7-1200 hardware configuration explicitly supporting 6ES7214-1HG40-0XB0
- 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 1214C 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 6ES7214-1HG40-0XB0, the CPU 1214C 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 6ES7214-1HG40-0XB0: <https://support.industry.siemens.com/teddatasheet/?caller=SIOS&format=pdf&language=en&mlfbs=6ES7214-1HG40-0XB0>; 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/6es7214-1hg40-0xb0>

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.