SIEMENS PRODUCT REFERENCE

6ES7212-1HE40-0XB0

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

SIMATIC S7-1200 CPU 1212C with a 24 V DC supply, 8 digital inputs, 6 relay outputs, 2 analog inputs and 100 KB work memory.

Configuration at a glance

ONBOARD I/O **8 DI | 6 relay DO | 2 AI**	POWER / OUTPUT **DC / DC / Relay**
WORK MEMORY **100 KB**	LIFECYCLE **Active Product**

Technical data for the exact article

SPECIFICATION	VERIFIED ARTICLE DATA
Article number	6ES7212-1HE40-0XB0
CPU designation	CPU 1212C DC/DC/relay
Digital inputs	8 x 24 V DC
Digital outputs	6 x relay, 2 A
Analog inputs	2 x 0-10 V DC
DC supply range	20.4-28.8 V DC
Work memory	100 KB
Firmware shown by Siemens	V4.7
Engineering software	STEP 7 V20 or higher
Approximate net weight	0.311 kg
Current Siemens lifecycle	Active Product

Application guidance

24 V DC machine controls

Runs from a standard industrial 24 V DC control supply while switching suitable relay loads.

Mixed-load compact panels

Relay outputs provide switching flexibility after contact and common-group limits are reviewed.

Remote utility enclosures

Useful where DC control power is available and compact integrated I/O is preferred.

1212C replacement projects

Supports like-for-like service where the HE suffix, firmware and project hardware configuration match.

Engineering verification notes

HE is not the transistor-output model

The CPU uses a DC supply and DC inputs but its six digital outputs are relays.

Coordinate DC power and relay loads

The CPU supply budget and the switched load circuits are separate engineering checks.

Questions engineers commonly ask

What is distinctive about the HE suffix in 6ES7212-1HE40-0XB0?

This article is a CPU 1212C with DC power, 24 V DC digital inputs and relay digital outputs. It combines a DC control supply with contact outputs.

How many points are integrated before expansion modules are added?

Siemens lists 8 digital inputs, 6 relay outputs and 2 analog 0-10 V inputs on the CPU.

Which 24 V power range should the cabinet supply maintain?

The official product description specifies 20.4-28.8 V DC. The power unit must also accommodate startup, connected modules and sensor loads.

Can the HE model replace the AE transistor-output CPU without rewiring?

No direct interchange should be assumed. Relay contacts and transistor outputs have different commons, switching behavior, frequency, leakage and load constraints.

DOCUMENT STATUS	Prepared by Moore Automation from the Siemens product records identified as Siemens SiePortal product page, Siemens official technical data. This independent reference is not a Siemens-issued manual and does not replace the current manufacturer documentation for installation, wiring, safety or certification.

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Before ordering, match the complete article number, hardware version, firmware, electrical design, wiring and application.