MOORE AUTOMATION TECHNICAL DATA SHEET

6ES7212-1HE40-0XB0

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

Exact article	6ES7212-1HE40-0XB0	Product family	SIMATIC S7-1200

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

Verified technical characteristics

PARAMETER	ARTICLE-SPECIFIC VALUE
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

IMPORTANT This sheet is tied to the exact Siemens article number. Confirm the supplied hardware version, firmware, electrical ratings and current manufacturer documentation before installation.

APPLICATION AND COMMISSIONING GUIDE

Engineering checks for 6ES7212-1HE40-0XB0

Application-fit matrix

APPLICATION CONTEXT	ENGINEERING FIT
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.

Six-point verification workflow

01 Match article identity

Confirm the complete order number 6ES7212-1HE40-0XB0 on the supplied nameplate.

02 Check electrical design

Verify supply, input, output and interface ratings against the actual panel wiring.

03 Confirm system compatibility

Match the SIMATIC S7-1200 hardware, firmware, accessories and engineering project.

04 Inspect installation conditions

Check terminal assignment, grounding, cable routing, ventilation and environmental limits.

05 Commission with evidence

Record supply measurements, diagnostics, I/O tests, communication status and the validated project backup.

06 Approve replacement

Release the unit only after the application owner confirms functional and safety checks.

Article-specific engineering 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.

SOURCE BASIS	Prepared by Moore Automation from the article-specific records identified as Siemens SiePortal product page, Siemens official technical data. This independent technical sheet is not a Siemens-issued manual and does not replace current manufacturer instructions for installation, wiring, safety or certification.

Technical support: Tiffany Guan | plcsale@mooreplc.com | WhatsApp/WeChat: +86 180 3023 5313