MOORE AUTOMATION TECHNICAL DATA SHEET

6ES7212-1BE40-0XB0

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

Exact article	6ES7212-1BE40-0XB0	Product family	SIMATIC S7-1200

ONBOARD I/O	SUPPLY	WORK MEMORY	LIFECYCLE
8 DI | 6 relay DO | 2 AI	85-264 V AC	100 KB	Active Product

Verified technical characteristics

PARAMETER	ARTICLE-SPECIFIC VALUE
Article number	6ES7212-1BE40-0XB0
CPU designation	CPU 1212C AC/DC/relay
Digital inputs	8 x 24 V DC
Digital outputs	6 x relay, 2 A
Analog inputs	2 x 0-10 V DC
AC supply range	85-264 V AC
Line frequency	47-63 Hz
Work memory	100 KB
Firmware shown by Siemens	V4.7
Engineering software	STEP 7 V20 or higher
Typical power loss	11 W
Approximate net weight	0.374 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 6ES7212-1BE40-0XB0

Application-fit matrix

APPLICATION CONTEXT	ENGINEERING FIT
Compact machine sequences	Eight onboard inputs and six relay outputs suit verified discrete-control duties.
Packaged process skids	Two voltage analog inputs can handle monitored 0-10 V signals with correct scaling and EMC practice.
AC-fed control cabinets	Integrated AC supply reduces the need for a separate CPU supply while 24 V sensor power planning remains necessary.
Incremental 1211C upgrades	Provides more onboard I/O and work memory than a comparable 1211C configuration, subject to project review.

Six-point verification workflow

01 Match article identity

Confirm the complete order number 6ES7212-1BE40-0XB0 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

Do not size only by I/O count

Check scan performance, memory, communications, expansion and technology-function requirements together.

Relay groups require load review

Contact current, load category, common grouping and suppression must be verified for every output circuit.

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.

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