

6ES7223-1BL22-0XA0

SIMATIC S7-200 EM223 Digital I/O Module



INSTALLATION AND COMMISSIONING WORKBOOK

1

IDENTIFY

2

ISOLATE

3

INSTALL

4

VERIFY

Preparation gate

Complete these checks before disconnecting the installed product.

1

Confirm the full 6ES7223-1BL22-0XA0 article number and hardware version.

☐

2

Back up the S7-200 project and record the expansion-chain position.

☐

3

Isolate CPU and 24 VDC field power before removing conductors.

☐

4

Label all sixteen input and sixteen output circuits and their commons.

☐

PRE-WORK RECORD

Work order

Drawing / revision

Checked by

Date

Installation and connection sequence

Install 6ES7223-1BL22-0XA0 only in a documented S7-22X expansion arrangement and isolate the 24 VDC field supply before wiring. Restore the input commons, source-output groups and STEP 7 Micro/WIN configuration, then prove each affected channel before machine release.

05

Verify sink/source input wiring and source-output supply polarity.

06

Keep output loads within the documented per-channel and group limits.

07

Restore the approved STEP 7 Micro/WIN hardware and address configuration.

08

Test every input, output and interlock before returning the machine to automatic mode.

Commissioning record

Record the controlled checks used to release this exact product.

1. Identity / article	PASS / FAIL	_____

2. Mechanical installation	PASS / FAIL	_____

3. Power / wiring	PASS / FAIL	_____

4. Grounding / shielding	PASS / FAIL	_____

5. Configuration	PASS / FAIL	_____

6. Signal response	PASS / FAIL	_____

7. Diagnostics / alarms	PASS / FAIL	_____

8. Final release	PASS / FAIL	_____

MODEL-SPECIFIC ACCEPTANCE

Confirm 6ES7223-1BL22-0XA0, the S7-22X CPU, expansion order, hardware version, terminal assignments, 24 VDC supplies and commons, output loads, protective grounding, STEP 7 Micro/WIN project and controlled I/O and interlock test before commissioning.

Engineering navigation and closeout

Eight different validated product pages for related system planning.

VALIDATED RELATED ENGINEERING PAGES	
01	6ES7321-1BL00-0AA0 digital input module
02	6ES7153-2BA02-0XB0 ET 200M interface
03	6ES7215-1BG40-0XB0 S7-1200 CPU
04	6DD1683-0CH0 SIMATIC TDC interface
05	6AU1455-2AD00-0AA0 SIMOTION controller
06	6AV6643-0CD01-1AX1 SIMATIC HMI
07	6ES7314-6BH04-0AB0 S7-300 CPU
08	6ES7315-2EG10-0AB0 S7-300 CPU

Navigation links only - not manufacturer evidence for technical parameters.

MANUFACTURER SOURCE

SIMATIC S7-200 EM223 Product Data Sheet | Siemens Industry Mall article 6ES7223-1BL22-0XA0

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