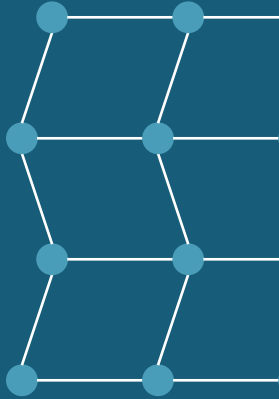


MANUFACTURER-SOURCE TECHNICAL REFERENCE

# ABB AI880A 3BSE039293R1

## Product Reference

ABB S800 I/O high-integrity analog input module



### DOCUMENT SCOPE

Independent Apter Power manual compiled only from the cited ABB manufacturer sources. No product photograph is included.

|                           |                                                                   |
|---------------------------|-------------------------------------------------------------------|
| Product / lookup identity | ABB AI880A 3BSE039293R1                                           |
| Reference number          | 3BSE039293R1                                                      |
| Document basis            | Published ABB product records, PDFs, and manuals listed on page 3 |



### Product page

<https://www.apterpower.com/ABB/ai880a>  
**Apter Power contact**

[sales13@apterpower.com](mailto:sales13@apterpower.com) | +86 180 3023 5313

## Product role and published parameters

### WHAT IT IS, WHAT IT DOES, AND WHERE IT FITS

ABB AI880A 3BSE039293R1 is an evidence-bounded S800 I/O high-integrity analog input module in the ABB installed-base context. System role: It acquires eight single-ended 0/4-20 mA analog input channels for S800 I/O applications, including redundant and high-integrity configurations. System context: ABB S800 I/O high-integrity analog input module.

| Published field  | Manufacturer-published value or verified identity note |
|------------------|--------------------------------------------------------|
| ABB product ID   | 3BSE039293R1                                           |
| Channels         | 8 single-ended analog inputs                           |
| Input range      | 0 to 20 mA / 4 to 20 mA                                |
| HART             | Yes                                                    |
| Resolution       | 12 bit                                                 |
| Input shunt      | 250 ohm with TY801                                     |
| Accuracy / drift | 0.1%; 50 ppm/C                                         |

## System function and signal path

|    |                                                                                                                                                                                   |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 01 | System Inputs: It acquires eight single-ended 0/4-20 mA analog input channels for S800 I/O applications, including redundant and high-integrity configurations.                   |
| 02 | Processing: The module uses group-isolated inputs with a common ground and 250-ohm input shunts; terminal-unit and redundancy design must match the exact S800 I/O configuration. |

## Applications, answers, and official sources

**1** Installed-base maintenance: Supports evidence-led identification and replacement planning for ABB AI880A 3BSE039293R1.

**2** System documentation: Provides a source-traceable boundary for rack, network, I/O and termination records.

**3** Commissioning review: Guides pre-power checks, companion-module verification and controlled functional testing.

**4** Migration assessment: Separates exact-model facts from successor, sibling and family-level information.

## Frequently asked questions

|                                                  |                                                                                                                                                  |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>What is ABB AI880A 3BSE039293R1?</b>          | It is an ABB S800 I/O high-integrity analog input module; this page is limited to the exact evidence boundary stated in the cited ABB sources.   |
| <b>Is the exact model identity verified?</b>     | Verified Exact Product Id.                                                                                                                       |
| <b>What is its system role?</b>                  | It acquires eight single-ended 0/4-20 mA analog input channels for S800 I/O applications, including redundant and high-integrity configurations. |
| <b>Which system family is documented?</b>        | ABB installed-base architecture, subject to the exact source boundary.                                                                           |
| <b>Are related models automatic substitutes?</b> | No. A sibling, SP/IN generation, repair code or evolution path is not an alias or unconditional drop-in approval.                                |
| <b>Must the physical nameplate be checked?</b>   | Yes. Verify the model, revision, firmware and all order or repair suffixes.                                                                      |

### Official ABB sources

|                                                             |                                                                                                                                                                                                                                                                     |
|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ABB Compact Product Suite Hardware Selector – AI880A</b> | <a href="https://compacthardwareselector.automation.abb.com/product/ai880a">https://compacthardwareselector.automation.abb.com/product/ai880a</a>                                                                                                                   |
| <b>ABB AI880A product data sheet</b>                        | <a href="https://compacthardwareselector.automation.abb.com/pdf/download/f0605409-9e3f-4d51-bcd7-6c5146891220?ts=638846432702878466">https://compacthardwareselector.automation.abb.com/pdf/download/f0605409-9e3f-4d51-bcd7-6c5146891220?ts=638846432702878466</a> |