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> [ABB 1SDA105008R1 Automatic Switch User Manual](#)

## ABB 1SDA105008R1

# ABB 1SDA105008R1 Automatic Switch in Molded Box User Manual

## INTRODUCTION

This manual provides essential instructions for the safe installation, operation, and maintenance of the ABB 1SDA105008R1 Automatic Switch in Molded Box. Please read this manual thoroughly before use to ensure proper functionality and safety. This product is designed for professional electrical applications.

## SAFETY INFORMATION

**WARNING: Electrical work should only be performed by qualified and certified personnel. Failure to follow these instructions can result in serious injury, electric shock, or death.**

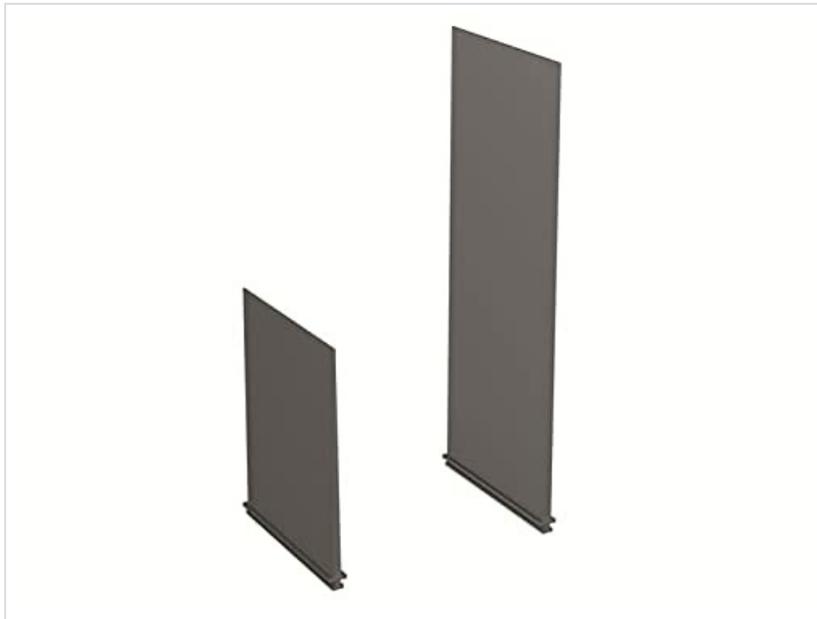
- Always disconnect power to the installation area completely before installing, servicing, or inspecting the device. Verify zero voltage with appropriate testing equipment.
- Ensure all local, state, and national electrical codes and regulations are strictly followed during installation and operation.
- Do not operate the device if it appears damaged, has exposed wiring, or shows any signs of malfunction.
- Wear appropriate personal protective equipment (PPE), including insulated gloves and safety glasses, when working with electrical components.
- This product contains lead. Wash hands thoroughly after handling.

## PRODUCT OVERVIEW

The ABB 1SDA105008R1 is an automatic switch designed for integration within a molded box. It is supplied as a kit, specifically a PB Set of 4 XT5 3P Kit Di.PH.RE, which includes four 3-pole phase dividers. These components are intended for use with XT5 three-pole applications, particularly for rear low fixed part phase division.

**Product Reference:** ABB 1SDA105008R1

**Product Family:** Automatic Switch in Molded Box



*Image Description:* A close-up view of the ABB 1SDA105008R1 Automatic Switch components, showing the molded box and internal elements. This image illustrates the physical appearance of the product and its included parts.

## SETUP AND INSTALLATION

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Installation of the ABB 1SDA105008R1 Automatic Switch requires careful attention to electrical connections and mounting procedures. It is strongly recommended that installation be performed by a certified electrician to ensure safety and compliance.

1. **Preparation:** Before beginning any work, ensure the main power supply to the installation area is completely disconnected and verified with a voltage tester.
2. **Mounting:** Securely mount the molded box in the designated location. Ensure the mounting surface is stable and that there is adequate space for ventilation and access for future maintenance.
3. **Wiring:** Connect the electrical wiring to the automatic switch terminals according to the specific wiring diagrams provided with the product (refer to product-specific documentation for detailed diagrams). Utilize the supplied 3-pole phase divider kit for proper phase separation and connection. Ensure all connections are tight and secure.
4. **Enclosure:** After all electrical connections are made and thoroughly checked for correctness and security, close and secure the molded box cover.
5. **Testing:** Carefully restore power to the circuit. Test the functionality of the automatic switch according to the operational guidelines and any specific testing procedures outlined in the product's technical documentation.

## OPERATING INSTRUCTIONS

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Once properly installed and powered, the ABB 1SDA105008R1 Automatic Switch operates automatically based on its internal design and configured parameters. Specific operational indicators or controls (if any) should be detailed in the product's dedicated technical documentation.

### General Operation:

- Monitor any status indicators or display panels on the device (if present) for normal operation. A steady green light typically indicates normal status.
- In the event of an electrical fault (e.g., overload, short circuit), the automatic switch is designed to activate its protective function, typically by tripping or opening the circuit.

- If the device trips, investigate and rectify the cause of the fault before attempting to reset or restore power. Do not repeatedly reset the device without addressing the underlying issue.

## MAINTENANCE

Regular maintenance ensures the longevity, reliability, and safe operation of your ABB 1SDA105008R1 Automatic Switch. Always disconnect power before performing any maintenance.

- **Periodic Inspection:** Annually inspect the device for any signs of physical damage, discoloration, loose connections, or evidence of overheating. Check the integrity of the molded box.
- **Cleaning:** Keep the exterior of the molded box clean and free from dust, dirt, and debris. Use a dry, soft, lint-free cloth for cleaning. Do not use liquid cleaners, solvents, or abrasive materials.
- **Connection Check:** Periodically (e.g., every 1-3 years, depending on environmental conditions and usage) verify that all electrical connections are tight and secure. **Ensure power is completely disconnected and verified before performing this check.**
- **Environmental Conditions:** Ensure the operating environment remains within the specified temperature and humidity ranges to prevent premature wear or failure.

## TROUBLESHOOTING

This section provides general guidance for common issues. For complex problems or issues not listed here, contact qualified service personnel or ABB technical support.

| Problem                                                  | Possible Cause                                                     | Solution                                                                                                                                                                   |
|----------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Device not operating                                     | No power supply to the circuit.                                    | Check the main power supply, circuit breakers, and upstream protective devices. Ensure all connections are secure.                                                         |
| Device trips frequently                                  | Overload, short circuit, or ground fault in the connected circuit. | Identify and rectify the cause of the overload, short circuit, or ground fault. Reduce load or repair faulty wiring/equipment. Consult an electrician.                     |
| Unusual noises (e.g., buzzing) or smells (e.g., burning) | Internal fault, loose connection, or component damage.             | Immediately disconnect power to the device. Do not attempt to operate. Contact qualified service personnel for inspection and repair.                                      |
| Device feels excessively hot                             | Overload, poor ventilation, or internal fault.                     | Disconnect power. Check for proper ventilation around the molded box. Verify the load does not exceed the device's rating. If problem persists, contact service personnel. |

## SPECIFICATIONS

- **Manufacturer:** ABB
- **Part Number:** 1SDA105008R1
- **Item Weight:** 2.11 ounces
- **Product Dimensions:** 0.39 x 0.79 x 0.39 inches
- **Item Model Number:** 1SDA105008R1

- **Color:** Multicoloured
- **Material:** Lead
- **Item Package Quantity:** 1
- **Included Components:** Automatic switch in molded box
- **Batteries Included?:** No
- **Batteries Required?:** No
- **ASIN:** B09BP3GTLL
- **Date First Available:** August 2, 2021

## WARRANTY AND SUPPORT

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For detailed warranty information, technical support, or service inquiries regarding your ABB 1SDA105008R1 Automatic Switch, please refer to the official ABB website or contact your local authorized ABB representative. It is advisable to keep your purchase receipt and product documentation for any warranty claims or support requests.

**ABB Official Website:** [www.abb.com](http://www.abb.com)