

## ABB S200UP Series Busbar

# ABB Busbar Instruction Manual

For Use with S200UP Series Miniature Circuit Breakers

## INTRODUCTION

This manual provides essential instructions for the safe and effective installation, operation, and maintenance of the ABB Busbar, specifically designed for use with ABB S200UP Series Miniature Circuit Breakers. Please read this manual thoroughly before proceeding with any installation or operation to ensure proper functionality and safety.



Image 1: An ABB Busbar, typically used for power distribution to multiple miniature circuit breakers. This image shows the busbar with multiple connection points.

## SAFETY INFORMATION

Electrical installations must only be performed by qualified and authorized personnel. Always adhere to local electrical codes, regulations, and safety standards. Failure to do so may result in serious injury, death, or damage to equipment.

- **Disconnect Power:** Always ensure that the main power supply is disconnected and locked out before beginning any installation, maintenance, or inspection work.
- **Proper Tools:** Use insulated tools appropriate for electrical work.
- **Personal Protective Equipment (PPE):** Wear appropriate PPE, including safety glasses and insulated gloves.
- **Voltage Verification:** Always verify that circuits are de-energized using a suitable voltage tester before touching any conductors.

## SETUP AND INSTALLATION

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The ABB Busbar is designed for plug-in mounting with S200UP Series Miniature Circuit Breakers. Follow these steps for proper installation:

1. **Power Disconnection:** Ensure all power to the electrical panel or distribution board is completely disconnected and verified as de-energized.
2. **Mounting Location:** Identify the appropriate mounting location within the electrical enclosure. The busbar is designed to connect to the input terminals of the miniature circuit breakers.
3. **Busbar Placement:** Position the busbar so its connection pins align with the input terminals of the S200UP Series Miniature Circuit Breakers.
4. **Secure Connection:** Firmly press the miniature circuit breakers onto the busbar pins until they are securely seated. Ensure a tight electrical connection.
5. **Main Power Connection:** Connect the main incoming power supply conductors to the designated input terminal(s) of the busbar, if applicable, or to the main circuit breaker that feeds the busbar. Ensure all connections are torqued to the manufacturer's specifications.
6. **Verify Installation:** Double-check all connections for tightness and proper seating. Ensure no bare conductors are exposed.
7. **Restore Power:** Once installation is complete and verified, carefully restore power to the system.

Refer to the specific installation instructions for your S200UP Series Miniature Circuit Breakers for detailed wiring diagrams and torque specifications.

## OPERATING PRINCIPLES

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The ABB Busbar serves as a robust and efficient method for distributing electrical power from a single source to multiple S200UP Series Miniature Circuit Breakers. Once installed, it provides a common electrical path, simplifying wiring and improving the overall neatness and reliability of the electrical panel.

- **Power Distribution:** The busbar receives power from an upstream source (e.g., a main breaker or feeder cable) and distributes it to each connected miniature circuit breaker.
- **Simplified Wiring:** It eliminates the need for individual wiring connections from the main supply to each circuit breaker, reducing installation time and potential wiring errors.
- **Enhanced Safety:** A properly installed busbar system reduces the number of exposed conductors and connection points, contributing to a safer electrical environment.

## MAINTENANCE

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The ABB Busbar is designed for long-term reliability with minimal maintenance. However, periodic inspection is recommended to ensure continued safe operation.

- **Visual Inspection (Annually):** With power disconnected and verified, visually inspect the busbar and its connections for any signs of discoloration, overheating, loose connections, or physical damage.
- **Cleaning:** If necessary, gently clean the busbar and surrounding components with a dry, non-conductive cloth. Do not use liquids or abrasive cleaners.
- **Connection Tightness:** Periodically check the tightness of all electrical connections, especially the main power input to the busbar and the connections of the miniature circuit breakers. Re-torque connections to manufacturer specifications if required.
- **Environmental Conditions:** Ensure the electrical enclosure remains free from excessive dust, moisture, and corrosive substances.

Any signs of damage or overheating should be addressed immediately by a qualified electrician.

## TROUBLESHOOTING

Troubleshooting issues related to the busbar typically involves identifying problems with power distribution or connection integrity. Always ensure power is disconnected before troubleshooting.

- **No Power to Circuit Breakers:**
  - Verify the main power supply to the busbar is active and correctly connected.
  - Check the main circuit breaker feeding the busbar for tripping or malfunction.
  - Inspect the busbar for any visible damage or breaks in the conductive path.
- **Intermittent Power:**
  - Check for loose connections at the busbar's main input and where the miniature circuit breakers plug in.
  - Look for signs of arcing or overheating at connection points, which may indicate a poor contact.
- **Overheating or Discoloration:**
  - Immediately disconnect power.
  - This indicates excessive current or a poor connection. Inspect all connections for tightness and ensure the busbar is rated for the applied load. Consult a qualified electrician.

If you are unable to resolve an issue, contact a qualified electrician or ABB technical support.

## SPECIFICATIONS

Feature	Detail
Brand	ABB
Model Compatibility	S200UP Series Miniature Circuit Breakers
Mounting Type	Plug-In Mount
Circuit Breaker Type (Supported)	Standard
Item Weight	54.94 Pounds <i>(Note: This weight may refer to shipping weight or bulk packaging. Actual product weight may vary.)</i>
ASIN	B01DL6ROZI
Date First Available	March 29, 2016




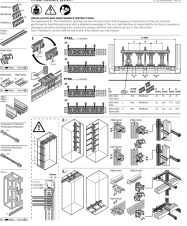
## WARRANTY AND SUPPORT

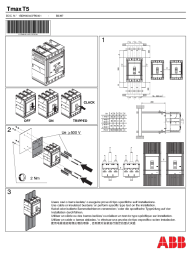
For information regarding product warranty, technical support, or service, please contact ABB directly or refer to the official ABB website. Warranty terms and conditions may vary based on region and purchase location.

**Manufacturer:** ABB

**Website:** [www.abb.com](http://www.abb.com) *(Please note: This is a general link to the manufacturer's website. Navigate to the specific product support section for detailed information.)*

## Related Documents - S200UP Series Busbar

 <p>ABB S802PV-SP16 S802PV-SP16 High Performance MCB</p>	<p><a href="#">ABB S802PV-SP16 High Performance MCB - Technical Specifications</a></p> <p>Detailed technical specifications, product information, dimensions, and ordering details for the ABB S802PV-SP16 High Performance Miniature Circuit Breaker (MCB) designed for photovoltaic DC applications.</p>
 <p>ABB SACE® Tmax® XT Spectra™ to SACE® Tmax® XT molded case circuit breakers</p>	<p><a href="#">ABB SACE® Tmax® XT Molded Case Circuit Breakers: Distributor Migration Guide from Spectra™</a></p> <p>This Distributor Migration Guide from ABB provides a comprehensive overview of the SACE® Tmax® XT molded case circuit breakers, detailing their features, applications, and benefits. It guides users on migrating from the retiring Spectra™ series, offers stocking strategies, lists accessories, and explains product ordering structures. Essential for electrical distributors and specifiers.</p>
 <p>ABB SMISSLINE TP</p>	<p><a href="#">ABB SMISSLINE TP Technical Catalogue: Touch-Proof Power and Safety Systems</a></p> <p>Discover the ABB SMISSLINE TP technical catalogue, featuring the innovative touch-proof pluggable socket system for enhanced electrical safety and efficiency. Explore circuit breakers, RCDs, busbars, and more for industrial and data center applications.</p>
 <p>ABB System pro E power</p>	<p><a href="#">ABB System pro E power Linear Busbars System: Installation Guide</a></p> <p>Comprehensive installation and maintenance instructions for ABB's System pro E power linear busbars system, covering component assembly, cabinet integration, and technical specifications. Includes part numbers and torque values.</p>
 <p>ABB VM1 Vacuum Circuit Breaker</p>	<p><a href="#">ABB VM1 Vacuum Circuit Breaker Instruction Manual</a></p> <p>Comprehensive instruction manual for the ABB VM1 vacuum circuit breaker, detailing its structure, function, installation, operation, maintenance, and technical specifications for medium voltage electrical systems.</p>



### [ABB Tmax T5 Circuit Breaker Installation and Technical Data](#)

Comprehensive technical specifications, dimensional drawings, and installation guidelines for ABB Tmax T5 circuit breakers, including various series like PR221DS.