Bussmann BM6033SQ

Cooper Bussmann BM6033SQ Buss Fuse Block User Manual

Model: BM6033SQ

1. Introduction

This manual provides essential information for the safe and effective installation, operation, and maintenance of the Cooper Bussmann BM6033SQ Buss Fuse Block. Please read this manual thoroughly before proceeding with any installation or operation to ensure proper usage and to prevent potential hazards.

2. Safety Information

WARNING: Electrical shock hazard. Only qualified personnel should install or service this equipment.

- Always disconnect power before installing, servicing, or removing fuses from the fuse block.
- Use appropriate personal protective equipment (PPE) such as insulated gloves and eye protection.
- Ensure all wiring complies with local and national electrical codes.
- Verify the voltage and current ratings of the fuse block and fuses match the application requirements.
- Do not exceed the specified voltage or current ratings of the fuse block.

3. Product Overview

The Cooper Bussmann BM6033SQ is a 3-pole fuse block designed to hold 10x38mm fuses. It provides overcurrent protection for various industrial electrical applications. The modular design allows for easy assembly and disassembly of individual fuse holder units.

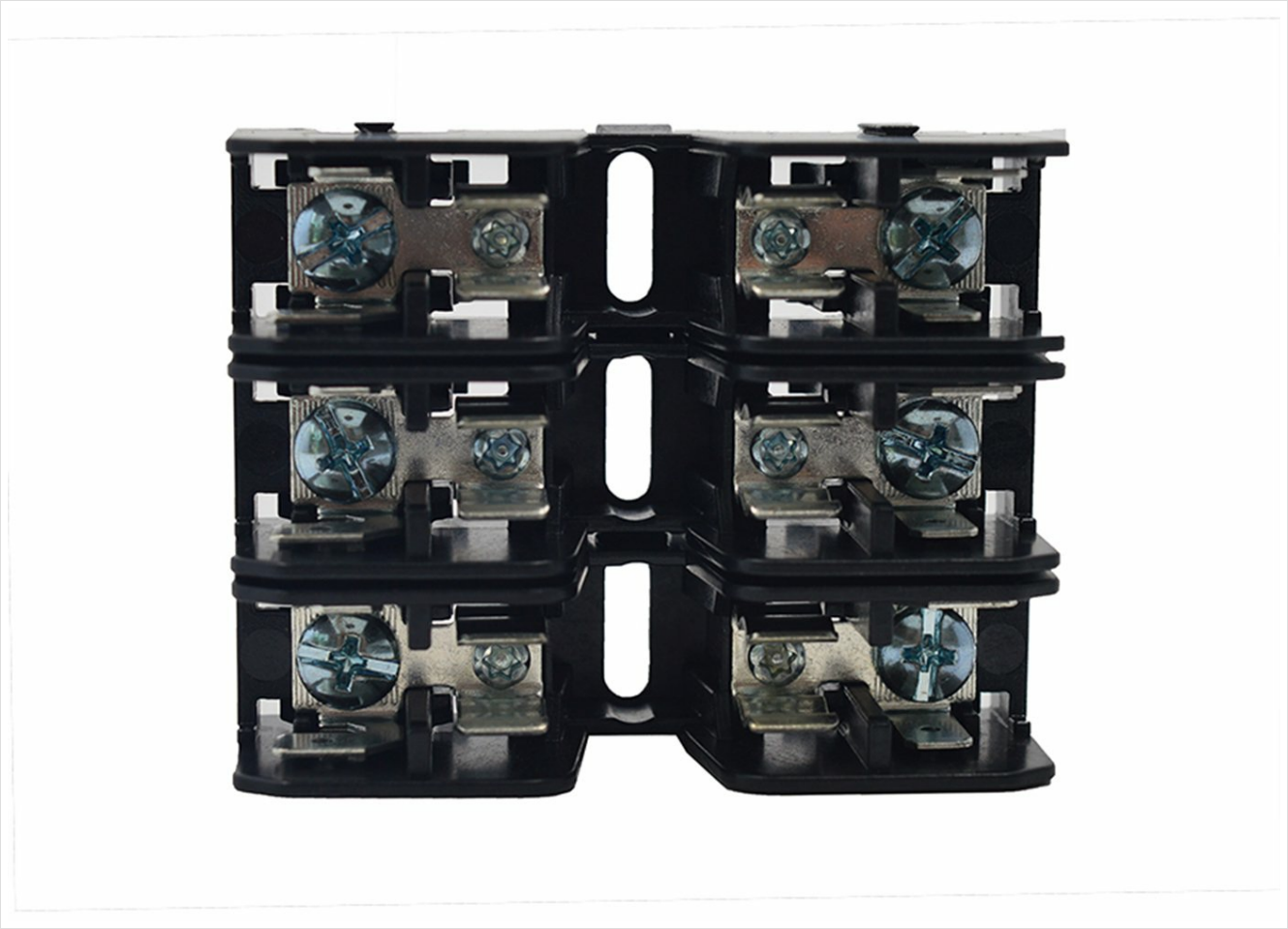

Figure 1: Front view of the BM6033SQ Fuse Block, illustrating the three fuse holder units and their screw terminals for wiring connections.

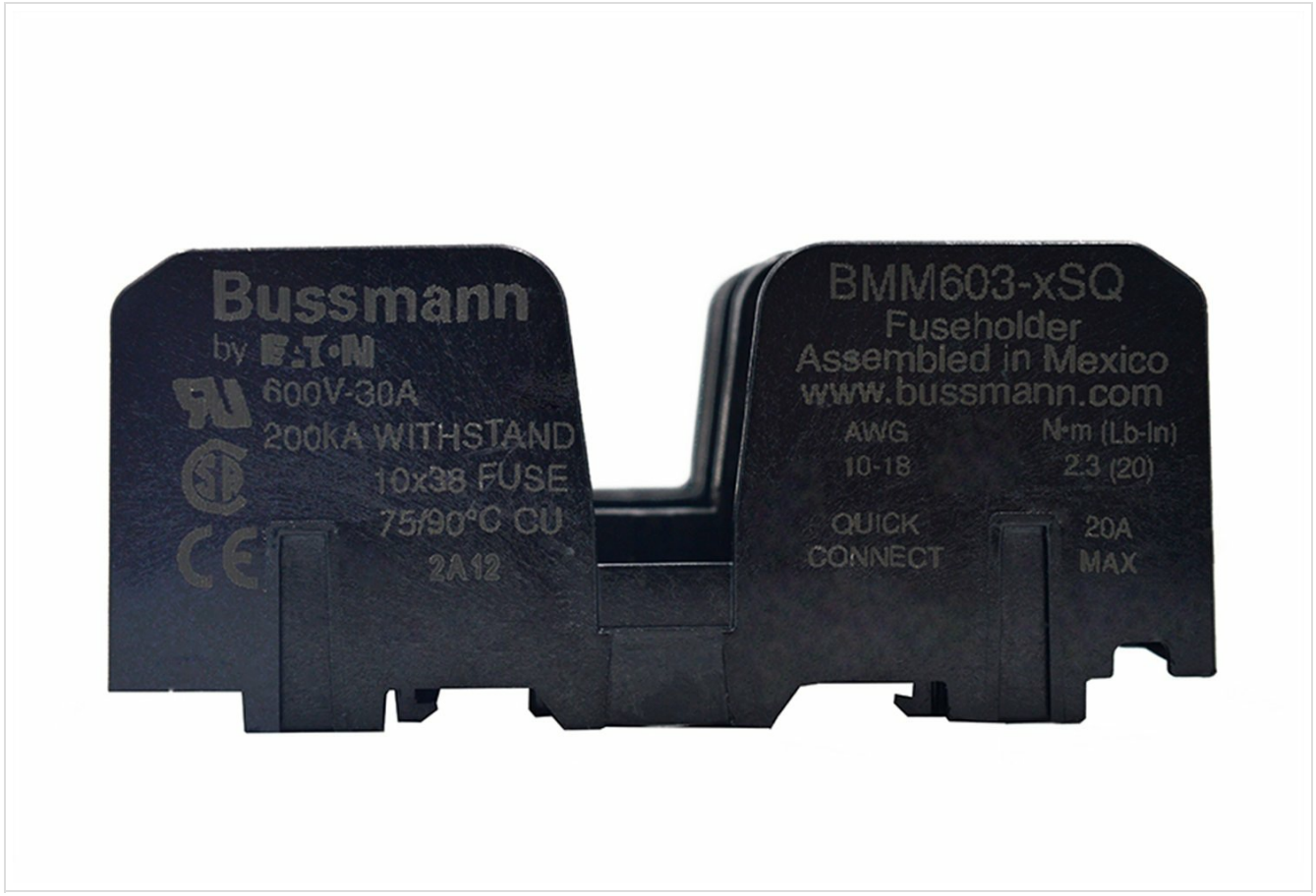

Figure 2: Side view of the BM6033SQ Fuse Block, displaying key specifications such as 600V-30A rating, 200kA withstand, and 10x38 fuse compatibility.

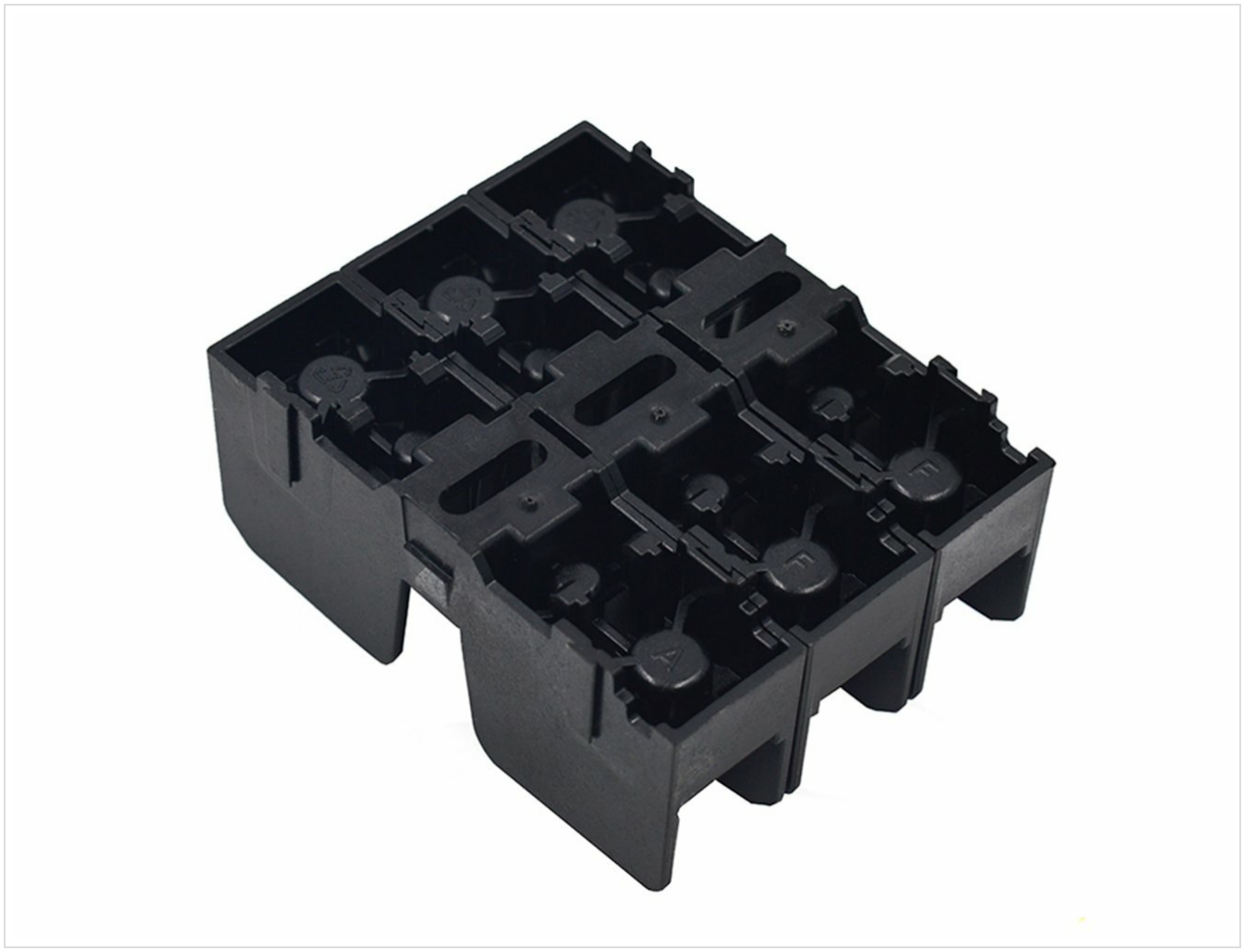

Figure 3: Top-down view of the BM6033SQ Fuse Block, showing the interlocking dovetail slots and clips that allow individual fuse blocks to be combined or separated.

4. Specifications

Feature	Specification
Model Number	BM6033SQ
Current Rating	30 Amps
Voltage Rating	600 Volts
Number of Poles	3
Compatible Fuse Size	10x38mm
Connector Type	Screw
Mounting Type	DIN Rail Mount
Material	Plastic
Product Dimensions (W x H)	0.39" x 1.5" (per individual block)
Upper Temperature Rating	85 Degrees Celsius
Manufacturer	Cooper Bussmann

5. Setup & Installation

5.1 Pre-Installation Checks

- Ensure the power supply is disconnected and locked out.
- Verify that the fuse block's ratings (voltage, current) are suitable for your application.
- Confirm that the fuses to be used are 10x38mm and have the correct current rating.

5.2 Mounting the Fuse Block

The BM6033SQ fuse block is designed for DIN rail mounting.

1. Align the fuse block's mounting clips with the DIN rail.
2. Press firmly until the block snaps securely onto the rail.
3. To remove, use a screwdriver to gently pry open the retaining clip and lift the block off the rail.

5.3 Wiring Connections

The fuse block features screw terminals for secure wire connections.

1. Strip approximately 10-12mm of insulation from the wire ends.
2. Insert the stripped wire into the appropriate screw terminal.
3. Tighten the screw firmly to ensure a good electrical connection. Refer to the product specifications for recommended torque values if available.
4. Ensure all connections are secure and there are no loose strands of wire.

6. Operation

6.1 Inserting Fuses

1. Ensure power is disconnected before handling fuses.
2. Open the fuse holder cover by lifting the latch.
3. Insert the 10x38mm fuse into the designated clips within the holder.
4. Close the fuse holder cover, ensuring it latches securely.

6.2 Replacing Fuses

If a fuse blows, it must be replaced with a fuse of the exact same type and rating.

1. Disconnect power to the circuit protected by the fuse block.
2. Open the fuse holder cover.
3. Carefully remove the blown fuse.
4. Insert a new 10x38mm fuse with the correct current rating.
5. Close the fuse holder cover securely.
6. Restore power and verify proper operation.

7. Maintenance

The Cooper Bussmann BM6033SQ fuse block requires minimal maintenance. Regular inspections are recommended to ensure optimal performance and safety.

- **Periodic Inspection:** Annually, or more frequently in harsh environments, inspect the fuse block for any signs of physical damage, discoloration, or loose connections.
- **Cleaning:** If necessary, clean the exterior of the fuse block with a dry, lint-free cloth. Do not use abrasive cleaners or solvents. Ensure power is disconnected before cleaning.
- **Terminal Tightness:** Periodically check the tightness of all screw terminals to prevent loose connections, which can lead to overheating or intermittent operation.

8. Troubleshooting

Problem	Possible Cause	Solution
No power through the fuse block	Blown fuse	Replace the fuse with one of the correct rating (see Section 6.2). Investigate the cause of the blown fuse.
Loose connections	Wiring not properly secured	Disconnect power and re-tighten all screw terminals.
Fuse block overheating	Overcurrent condition, loose connections, or incorrect fuse rating	Verify circuit load does not exceed fuse or block rating. Check and tighten all connections. Ensure correct fuse rating is used.
Difficulty inserting/removing fuse	Incorrect fuse size or damaged holder	Ensure fuses are 10x38mm. Inspect the fuse holder for damage; replace if necessary.

9. Support

For technical assistance or further information regarding the Cooper Bussmann BM6033SQ Buss Fuse Block, please contact Cooper Bussmann customer support or visit their official website. Always refer to the latest product documentation for the most up-to-date information.