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Eaton 10108 RTSC

Eaton B-line Series Type 3/3R Junction Box Instruction Manual

Model: 10108 RTSC

INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of the Eaton B-line Series Type 3/3R Junction Box, Model 10108 RTSC. This enclosure is designed to protect electrical wiring and components in various environments.

SAFETY INFORMATION

Always adhere to local electrical codes and regulations when installing or servicing this product. Installation should only be performed by qualified personnel. Disconnect all power before working on or inside the enclosure.

- Ensure power is disconnected before installation or maintenance.
- Wear appropriate personal protective equipment (PPE).
- Do not modify the enclosure.
- Verify proper grounding.

PRODUCT OVERVIEW

The Eaton B-line Series Type 3/3R Junction Box is a robust enclosure designed for use as wiring boxes, junction boxes, and pull boxes. It provides protection against falling rain, sleet, and external ice formation, making it suitable for outdoor applications.



Figure 1: Front view of the Eaton B-line Series Type 3/3R Junction Box. This image shows the grey metal enclosure with its sloped top cover, designed to shed water, and a small latch mechanism at the bottom center.

Key Features:

- Type 3R rated for outdoor use.
- Embossed mounting holes on the back for easy installation.
- Secure cover fastening mechanism.

SETUP AND INSTALLATION

Mounting the Enclosure:

1. Select a suitable mounting location that is flat, stable, and accessible, ensuring compliance with all local electrical codes.
2. Identify the embossed mounting holes located on the back of the enclosure.

3. Mark the drilling points on the mounting surface using the enclosure's mounting holes as a template.
4. Drill appropriate holes and install suitable mounting hardware (e.g., screws, anchors) that can support the weight of the enclosure and its contents.
5. Securely fasten the enclosure to the mounting surface using the embossed holes.

Securing the Cover:

The cover is designed for secure closure to maintain the Type 3R rating.

1. To close, slide the top edge of the cover under the top end flange of the enclosure body.
2. Lower the cover until it aligns with the bottom end flange.
3. Fasten the cover securely using the provided plated screws on the bottom end flange. Ensure all screws are tightened to prevent water ingress.

OPERATING INSTRUCTIONS

This junction box is intended to house and protect electrical wiring and components from environmental elements. Once installed and wired according to electrical standards, the enclosure operates passively by providing a secure and protected environment for its contents.

- Ensure all internal wiring connections are secure and properly insulated.
- Verify that the cover is always securely fastened to maintain the Type 3R protection against rain, sleet, and external ice formation.
- Do not exceed the internal volume or weight capacity of the enclosure.

MAINTENANCE

Regular maintenance ensures the longevity and protective integrity of the junction box.

- **Periodic Inspection:** Annually inspect the enclosure for any signs of damage, corrosion, or loose fasteners. Check the integrity of the seals if applicable.
- **Cleaning:** Clean the exterior of the enclosure with a damp cloth and mild detergent as needed. Avoid abrasive cleaners or solvents that could damage the finish.
- **Cover Security:** Periodically check that the cover screws are tight and the cover remains securely fastened to maintain its environmental rating.
- **Internal Check:** If opening the enclosure for internal inspection or modification, ensure power is disconnected and re-secure the cover properly upon completion.

TROUBLESHOOTING

Most issues related to the enclosure itself are physical in nature. Electrical issues within the enclosure should be addressed by a qualified electrician.

Problem	Possible Cause	Solution
Water ingress into enclosure	Cover not properly secured; damaged seal; improper installation.	Ensure cover screws are tight. Inspect and replace seal if damaged. Verify proper mounting and sealing around conduit entries.
Enclosure feels loose on mounting surface	Loose mounting hardware; inadequate mounting surface.	Tighten mounting screws. Reinforce mounting surface if necessary.
Corrosion on exterior	Exposure to harsh chemicals or prolonged moisture without cleaning.	Clean regularly. Consider protective coatings if in extremely corrosive environments (consult manufacturer).

SPECIFICATIONS

Attribute	Value
Brand	Eaton
Model Number	10108 RTSC
Type	Type 3/3R Junction Box
Dimensions (H x L x W)	10 inches x 8 inches x 10 inches
Standards	UL 50 listed, CSA C22.2 No. 40 certified, Conforms to NEMA standard for Type 3R
UPC	782051081428

WARRANTY AND SUPPORT

For detailed warranty information and technical support, please refer to the official Eaton website or contact Eaton customer service directly. Warranty terms may vary based on region and purchase date.

Eaton Official Website: www.eaton.com

