CBS ArcSafe®

Distance Is Safety®

A Group CBS Company

RSA-123C

For Square D Type QMBW
QMB225W, 325W, 326W, 365W, 366W, 367W, 368W; QMJ366 (15" Single Switch)

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More Products by CBS ArcSafe®

RRS-1 – *Universal Remote Racking System (Rotary)*

The CBS ArcSafe® RRS-1 is a universal remote racking system capable of remotely installing and removing rotary style draw out circuit breakers without requiring any modification to the existing switchgear. Operation of the simple to use RRS-1 is quite intuitive and requires only minimal setup. When used properly, the RRS-1 allows technicians to remain outside of the arc flash boundary during the potentially dangerous racking operation.

RRS-2 – *Universal Remote Racking System (Non-Rotary)*

The CBS ArcSafe® RRS-2 is a universal remote racking system capable of remotely installing and removing non-rotary style draw out circuit breakers without requiring any modification to the existing switchgear. Operation of the simple to use RRS-2 is quite intuitive and requires only minimal setup. When used properly, the RRS-2 allows technicians to remain outside of the arc flash boundary during the potentially hazardous racking operation.

RRS-3 – *Application Specific Remote Racking System (Rotary And Non-Rotary)*

The CBS ArcSafe® RRS-3 product line is made up of various application specific remote breaker racking devices. Each standalone system allows service personnel to remotely install and remove a particular type of circuit breaker safely while stationed safely outside of the arc flash boundary during the potentially dangerous operation. The lightweight and compact design of the RRS-3 systems makes them ideal for hard to access areas where space is at a premium.

RRS-4 – *PLC Based Universal Remote Racking System (Rotary)*

The CBS ArcSafe® RRS-4 universal remote racking system is an updated PLC based version of the best selling RRS-1. The dual mode, source programmable, PLC based control system offers two different operating modes to choose from based on user preference or the application. The RRS-4 is capable of remotely installing and removing rotary style draw out circuit breakers without requiring any modification to the existing switchgear, allowing users to remain outside of the arc flash boundary during the potentially hazardous racking operation.

RSA – *Remote Switch Actuator*

The CBS ArcSafe® Remote Switch Actuator (RSA) product line is made up of various application specific remote operating devices. These products allow service personnel to remotely perform all aspects of an operation for a particular type of electrical equipment from outside the arc flash boundary – reducing or eliminating the possibility of serious injury or death resulting from an arc flash.

RSO – *Remote Switch Operator*

During a remote operation, the CBS ArcSafe® RSO functions as both the power supply and user interface for the device being remotely operated by the user. When paired with an applicable CBS ArcSafe® device, this portable standalone system allows service personnel to remotely perform a racking or switching procedure from outside the arc flash boundary – reducing or eliminating the possibility of injury or death resulting from an arc flash
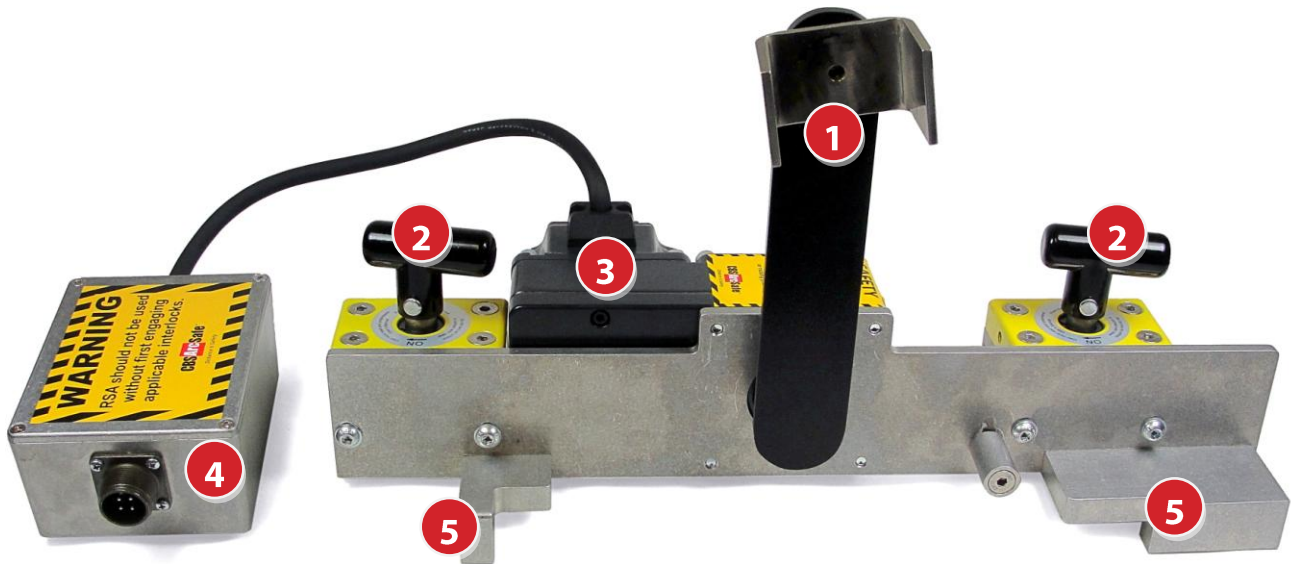
1 Introduction

This manual describes the installation and operation procedures for the Remote Switch Actuator (RSA-123C). Do not use this manual as a reference for the operation of any breaker or as an installation guide for any other CBS ArcSafe product. Please read and follow these instructions carefully. Failure to follow these instructions may result in personal injury or property and equipment damage.

1.1 Description

The RSA-123C will perform CLOSE/TRIP operations on the Square D QMBW breakers. The use of the RSA-123C for operations will greatly increase the safety of the operator by positioning the operator outside of the arc flash boundary.

1.2 Components

1. Motor Arm
2. Magnets
3. Motor
4. Motor Control Box
5. Locators

2 Installation

1. Ensure that the breaker is free from any obstruction that may interfere with the proper installation of the RSA.
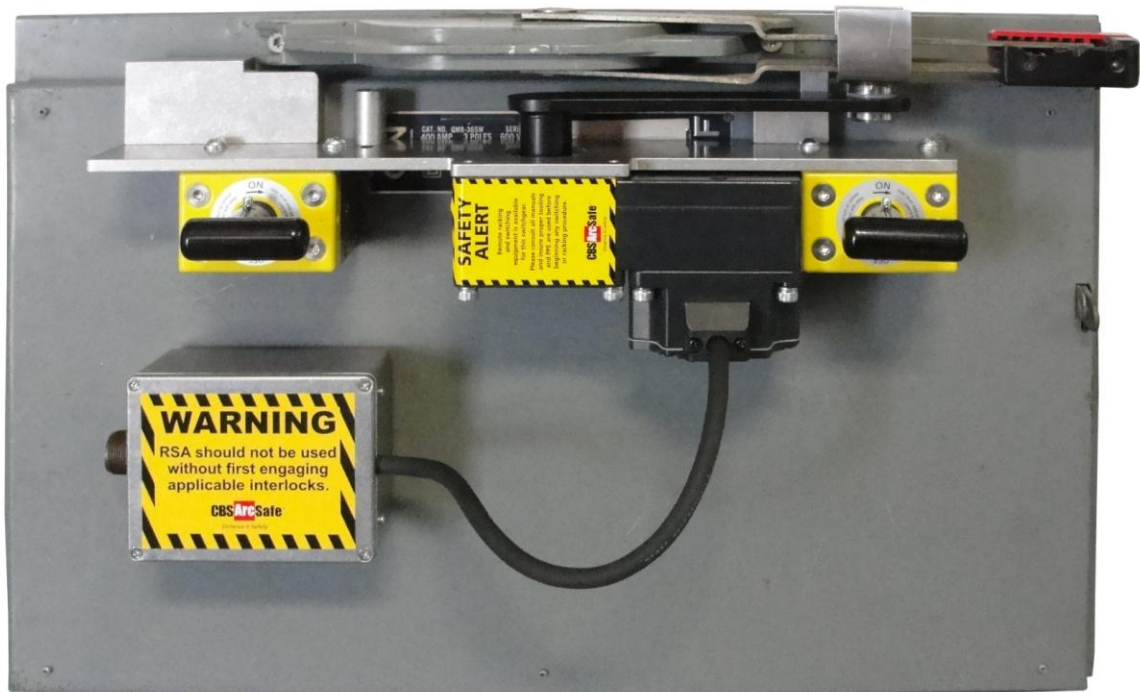

2. Place the RSA-123C on the face of the switch below the handle.
3. Tilt the RSA-123C toward the switch and slide towards the switch until the fork on the motor arm wraps around the switch handle.
   a. If the switch handle is in the ON position, then the motor arm will need to be rotated to the fully "UP" position to install.
   b. If the switch handle is in the OFF position, then the motor arm will need to be rotated to the fully "DOWN" position to install.

4. Slide the RSA-123C to the left to position the RSA-123C for operation.
5. Ensure that the Left and Right locators are sitting flush on the cabinet and nested on the base of the switch handle.
   a. The left handle locator can be adjusted if needed. To adjust, loosen the two bolts on the locator and reposition the locator as needed. Then retighten the bolts.

The RSA-123C is now ready for remote operation

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3 Operation

1. Ensure that the RSA is properly installed. See Section 3 for detailed instructions.
2. Plug the RSO-I AR into the motor control box on the RSA.
3. Exit the arc flash boundary
4. Turn the power switch on the RSO-I AR to the ON position.
5. Ensure that the Auto Retract (AR) function is OFF
6. If the breaker is ON and needs to be turned OFF then push and hold the TRIP button on the RSO-I AR until the breaker is tripped.
7. If the breaker is OFF and needs to be turned ON then push and hold the CLOSE button on the RSO-I AR until the breaker is closed.

Notes

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RSA-123C
Installation and Operation

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