

GEH6283 INSTRUCTIONS

Power Break® II Circuit Breaker Accessories

Remote Close

Introduction

The Remote Close accessory, shown in Figure 1, can be installed in 800–4000 ampere frame Power Break® II circuit breakers. It provides a means of remotely closing the circuit breaker after the springs have been charged. Table 1 lists the catalog numbers and corresponding electrical data for the available models.

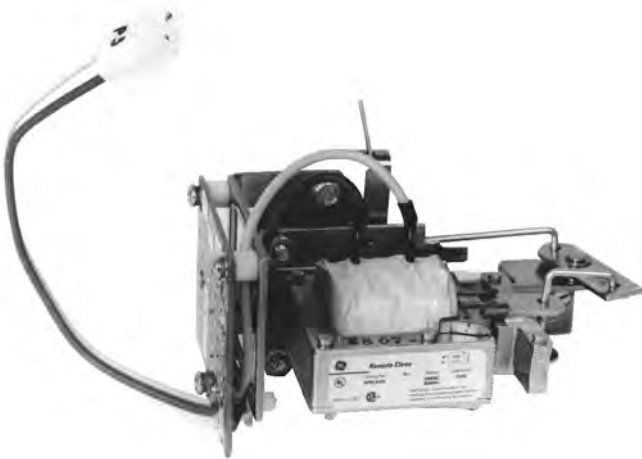


Figure 1. Remote Close accessory.

Remote Operation

The circuit breaker can be closed remotely, provided that the closing springs are charged, by applying voltage to terminals 16 and 34 on the terminal block on the right side of the breaker with a push button or similar device.

Installation

WARNING: Before installing any accessories, turn the breaker OFF, disconnect it from all voltage sources, and discharge the closing springs.

AVERTISSEMENT: Avant d'installer tout accessoire, mettre le disjoncteur en position OFF, le déconnecter de toute tension d'alimentation, et décharger les ressorts d'armement.

Use the following procedure to install the Remote Close accessory into the circuit breaker.

1. Verify that the rating on the Remote Close identification plate matches the electrical data required for the application, as listed in Table 1.
2. Turn the breaker off and discharge the closing springs by depressing the OFF and ON buttons in the sequence OFF–ON–OFF. Verify that the breaker OFF–ON indicator shows OFF on a green background and that the charge indicator shows DISCHARGED on a white background.
3. Loosen the four screws on the gray painted trim-plate assembly (when present) and remove the trim plate.
4. Loosen the four screws at the corner of the breaker cover. Crank handle 1 time & hold to remove the cover from the breaker face, as illustrated in Figure 2.
5. Remove one Phillips screw holding the left secondary terminal block to the midcover and lift the terminal block up and away from its mounting ridge on the midcover. (Screw located behind terminal 6 on 800-2000A frames & terminal 13 on 2500-4000A frames.)

Catalog No.	Voltage Rating	Peak Inrush Current
SPRCS024	24 Vdc	16.0 A
SPRCS048	48 Vdc	6.8 A
SPRCS072	72 Vdc	13.34 A
SPRCS120	120 Vac	13.6 A
SPRCS125	125 Vdc	3.5 A
SPRCS240	240 Vac	5.3 A

Table 1. Electrical data for the Remote Close accessory.

6. Remove the Motor Operator Mechanism, if present, following the reverse of the installation procedure described in GEH6281.
7. While holding the charge interlock rod of the breaker down against the midcover, move the Remote Close under the spring frame until it rests against the side frame of the breaker mechanism, as illustrated in Figure 3. Slide the Remote Close under the breaker's torque tube **until the Remote Close engages the closing lever projecting through the breaker side frame.**
8. Align the two hex-head bolts with the threaded holes in the mechanism side frame. Tighten to 32 in-lb.
9. Attach the wire connector to the mating color coded (brown and yellow) wires, as shown in Figure 4. The mating wires are secured to the breaker frame at the factory with a wire tie. The wire tie will need to be removed to allow the wires to connect.
10. Route and tie the wires as shown in Figures 4 & 5. Use wire ties and ensure that the wires do not interfere with any moving parts in the mechanism. Check that the wires are not in a position to be pinched by or interfere with the re installation of the breaker top cover.
11. Reinstall the Motor Operator Mechanism, if present.
12. Reinstall the secondary terminal block onto the breaker midcover terminal block mounting ridge and fasten with the screw previously removed.
13. Test the Remote Close electrically according to Table 1.
14. Reinstall the breaker top cover and tighten the four #10-32 screws to 15 in-lb.

15. Replace the trim plate and tighten the four #8-32 screws to 20 in-lb.
16. Affix the accessory rating label to the side of the breaker. Affix the yellow "ELECTRICALLY OPERATED" label to the top cover above the ON-OFF indicator.

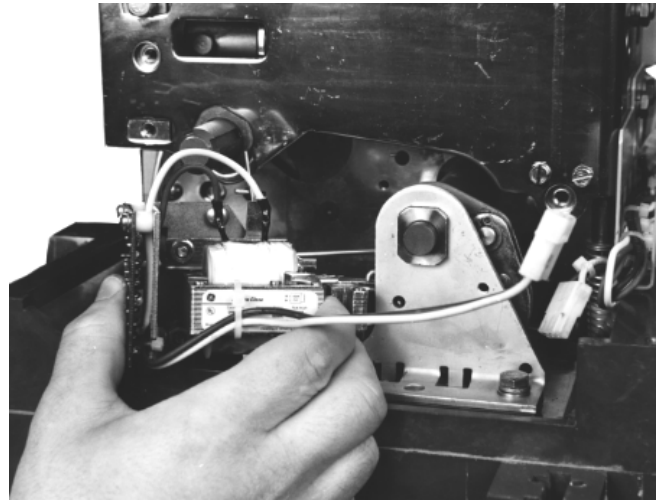


Figure 3. Installation of the Remote Close under the breaker spring frame.

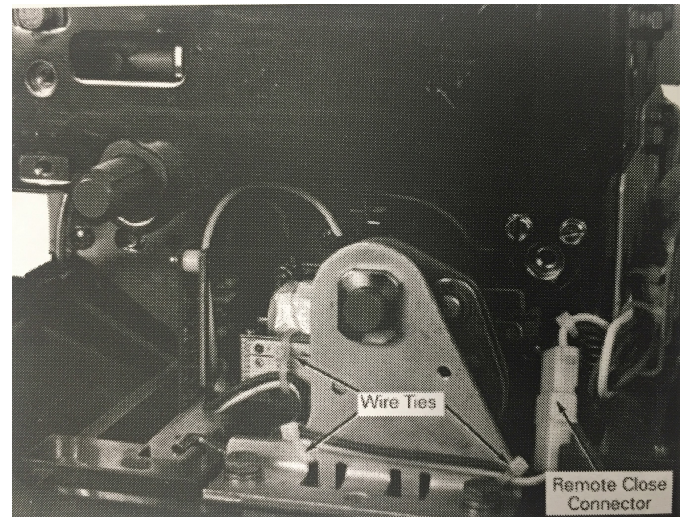


Figure 4. Routing of the Remote Close wiring and the locations of the wire ties.



Figure 2. Removal of the breaker top cover.

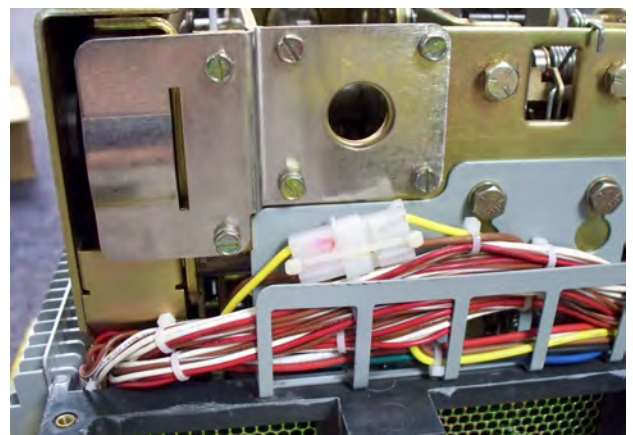


Figure 5. Locate connector in wire trough as shown (Oct. 2009 wires lengthened from 8" to 10.5" to reach this location)

Trouble-Shooting

The following guide is provided for trouble-shooting and isolating common problems. It does not cover every possible situation. Contact the Post Sale Service Customer Support Center at (888-437- 3765).if any problem is not resolved by these procedures.

Symptom	Possible Cause	Corrective Action
The breaker does not close.	The breaker is already closed. Power is not available to the Remote Close.	Remove the close command and reapply after the breakerhas been subsequentlyopened and charged. The Remote Close cannot be wired for automatic operation. Check that the Remote Close is wired correctly, as shown in Figure 6. Check that all connectors are properly seated. Check for blown fuses. Check that the voltage applied to the Remote Close is within the specifiedrange.

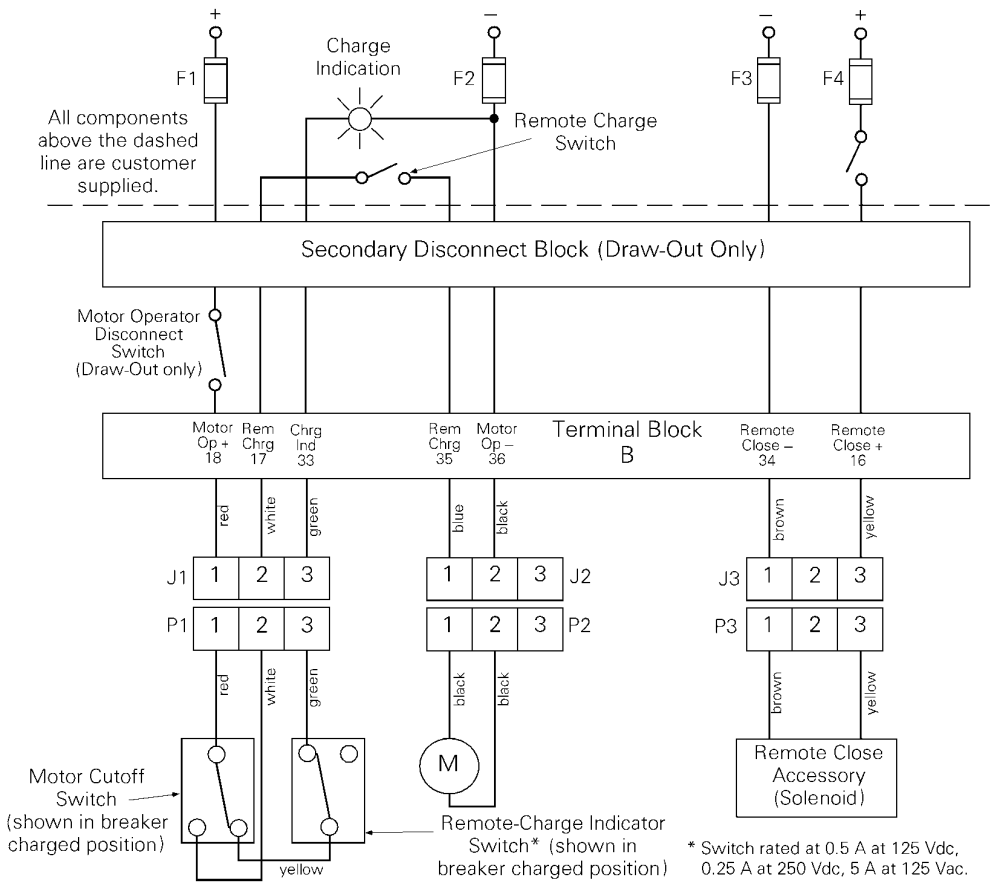


Figure 6. Wiring diagram for the Motor Operator Mechanism and Remote Close accessories.

These instructions do not cover all details or variations in equipment nor do they provide for every possible contingency that may be met in connection with installation, operation, or maintenance. Should further information be desired or should particular problems arise that are not covered sufficiently for the purchaser’s purposes, the matter should be referred to the ABB Inc.