

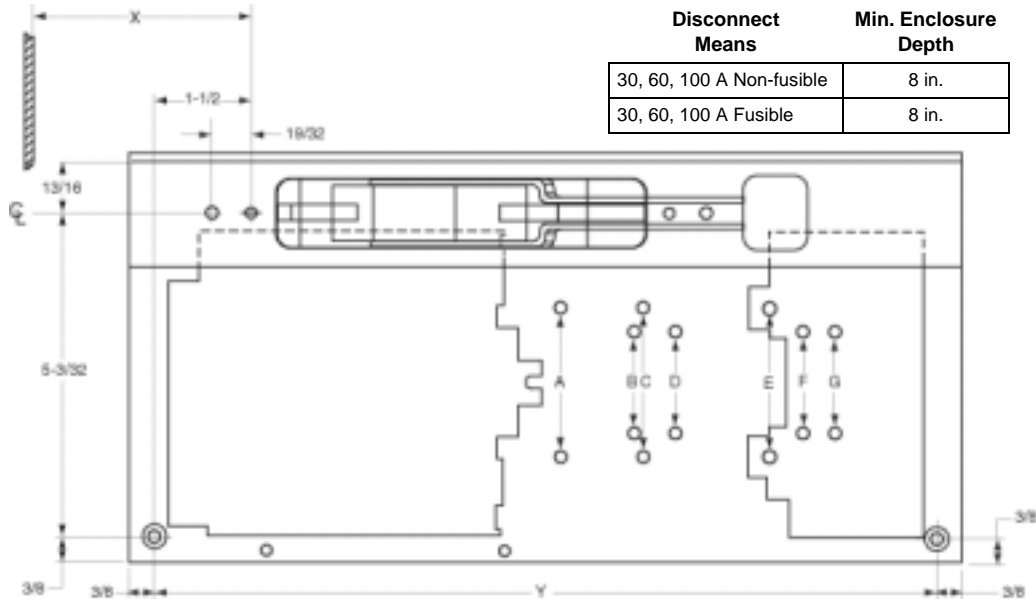


**Bracket Mounted Operating Mechanisms**  
**30, 60, and 100 A Disconnect Switches**  
**Class 9422**

Replaces 50006-415-01 dated 3/95

**ENCLOSURE**  
**CONSTRUCTION**

Construct the enclosure, maintaining the minimum dimensions (in inches) shown in Figure 1. To allow adequate wire bending space, minimum dimension X from mounting hole to wall or barrier is 2.75 inches for 30 A and 60 A devices (#2 wire) and 5.25 inches for 100 A devices (#0 wire). Refer to NEC 430-10.



**Figure 1 Dimensions for Enclosure Construction (BTEF10)**

**Table 1 Fuses and Mounting**

| Switch Type | Maximum Voltage | Fuse Type Class | Load Base Mounting Position | Class R Fuse Kit | Dimension Y |
|-------------|-----------------|-----------------|-----------------------------|------------------|-------------|
| BTCN30      | —               | Unfused         | —                           | —                | 8-3/4       |
| BTCF30      | 30 A, 250 V     | H, K, R         | B                           | RFK03            | 12-3/8      |
| BTCF31      | 30 A, 250 V     | H, K, R         | B                           | RFK03            | 8-3/4       |
| BTCF32      | 30 A, 600 V     | J               | B                           | —                | 8-3/4       |
| BTCF33      | 30 A, 600 V     | H, K, R         | F                           | RFK06            | 12-3/8      |
|             | 30 A, 600 V     | J               | B                           | —                | 12-3/8      |
|             | 60 A, 250 V     | H, K, R         | D                           | RFK06            | 12-3/8      |
| BTDN60      | —               | Unfused         | —                           | —                | 8-3/4       |
| BTDF60      | 60 A, 250 V     | H, K, R         | D                           | RFK06            | 12-3/8      |
|             | 30 A, 600 V     | J               | B                           | —                | 12-3/8      |
|             | 30 A, 600 V     | H, K, R         | F                           | RFK06            | 12-3/8      |
| BTDF61      | 60 A, 250 V     | H, K, R         | D                           | RFK06            | 8-3/4       |
| BTDF62      | 60 A, 600 V     | J               | B                           | —                | 8-3/4       |
| BTDF63      | 60 A, 600 V     | H, K, R         | G                           | RFK06H           | 12-3/8      |
|             | 60 A, 600 V     | J               | B                           | —                | 12-3/8      |
| BTEN10      | —               | Unfused         | —                           | —                | 8-3/4       |
| BTEF10      | 100 A, 250 V    | H, K, R         | C                           | RFK10            | 12-3/8      |
|             | 100 A, 600 V    | H, K, R         | E                           | RFK10            | 12-3/8      |
|             | 100 A, 600 V    | J               | A                           | —                | 12-3/8      |
| BTEF11      | 100 A, 600 V    | J               | A                           | —                | 8-3/4       |


Table 2 Lug Data

| Switch Size   | Switch Form | Lug Material      | Wire            |          | Lug Torque [2]  |
|---------------|-------------|-------------------|-----------------|----------|---|
|               |             |                   | Range           | Material |   |
| 30 A and 60 A | Std.        | Aluminum (Al) [1] | #14-#2          | Al or Cu | #14-10 = 35 lb-in<br>#8-4 = 40 lb-in<br>#3-0 = 45 lb-in |
|               | Y157        | Copper (Cu)       | #14-#4          | Cu       |   |
| 100 A         | Std.        | Al [1]            | #10-#0<br>#6-#0 | Cu<br>Al |   |
|               | Y157        | Cu                | #14-#0          | Cu       |   |

[1] Tin plated. [2] Suitable for use with 60 °C or 75 °C rated conductors.

INSTALLATION

These switches are designed for use with the Class 9999 Type TC11 and Class 9999 Type TC21 electrical interlocks as well as Class R Rejection Fuse Clip Kits RFK03, RFK06, RFK06H, and RFK10.

 **DANGER**

**HAZARD OF SHOCK, BURN, OR EXPLOSION.**

**Disconnect all power before working on equipment.**

Failure to observe this precaution will cause death or severe injury.

1. Weld or rivet the interlock blade mounting bracket to the enclosure door (Figure 2).
2. Attach the blade to the bracket with two 8-32 x 5/16" screws (Figure 3).
3. Drill four holes in the flange for mounting the device (Figure 2).
4. Cut an opening in the enclosure flange for the operating handle (Figure 2).
5. Mount the disconnect switch to the flange with two 1/4-20 x 1/2" screws from outside of the flange.
6. Place the trimplate over the operator handle and attach to the flange with two 8-32 x 1/2" screws from inside of the flange.

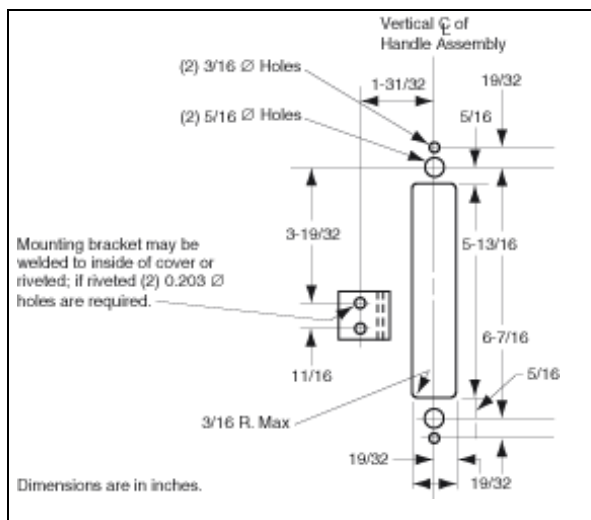


Figure 2 Drilling Dimensions

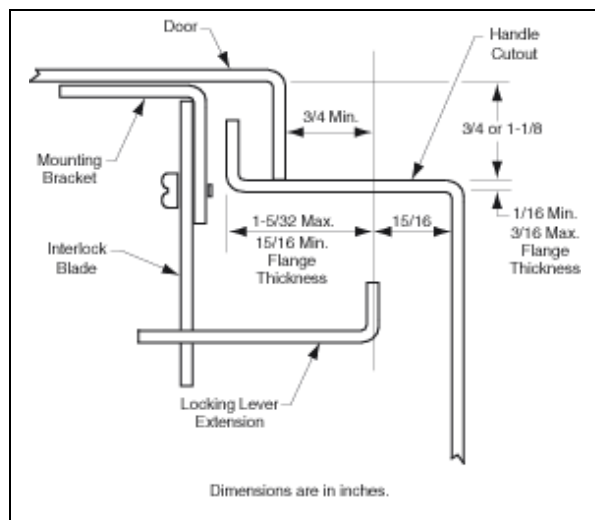


Figure 3 Installation—Bottom View

Electrical equipment should be serviced only by qualified electrical maintenance personnel. Square D assumes no responsibility for any consequences arising out of the use of this material.