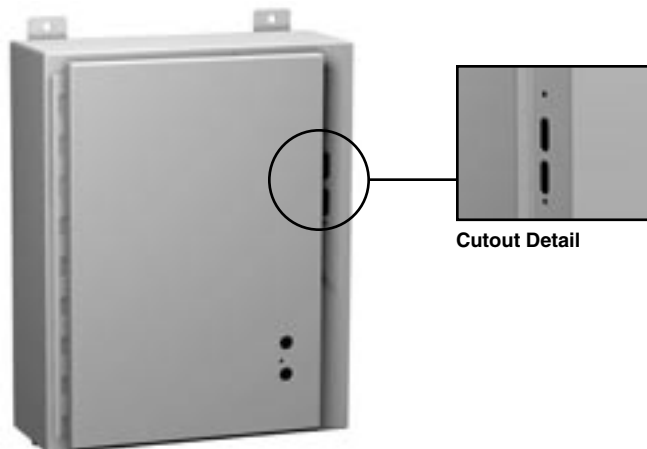


# 1447S Single Door Disconnect Enclosures - NEMA 12, 13

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

Disconnect



Cutout Detail



## Application

Designed to house the following safety disconnect equipment:

- **ABB Controls** flange-mounted variable depth operating mechanism for disconnect switches and circuit breakers. Also cable version for circuit breakers.
- **Allen Bradley** 1494V variable depth flange mounted disconnect switches and circuit breaker operators. Will not accept Allen Bradley 1494F disconnect switches, 1494D circuit breaker operators.
- **C-H Westinghouse** C361 flange mounted variable depth operating mechanism with disconnect switches and C371 flange mounted variable depth operating mechanisms for circuit breakers. Also Flex-Shaft™ handle mechanisms for circuit breakers.
- **General Electric** Type STDA flange handles and variable depth operating mechanism for disconnect switches and circuit breakers. Also SpectraFlex™ cable operators for circuit breakers.
- **Siemens I-T-E Max-Flex™** flange mounted variable depth handles for disconnect switches and circuit breakers.
- **Square D** class 9422 disconnect switches with flange mounted variable depth operating mechanisms or cable mechanisms and Class 9422 flange-mounted variable depth operating mechanisms or cable mechanisms for circuit breakers. Will not accept Square D Class 9422 bracket-mounted disconnect devices, 9422TG1 or TG2 devices.

## Standards

- UL 508 Type 12, 13
- CSA Type 12, 13
- **Complies with**
  - NEMA Type 12 and 13
  - JIC EGP-1-1967
  - IEC 60529, IP54
- Appropriate components are required to maintain these standards.

## Construction

- Formed 14-gauge steel.
- Continuously welded seams.
- Larger sizes include door and body stiffeners.
- Welded brackets provide for enclosure mounting.
- Formed lip on door and enclosure exclude flowing liquids and contaminants.
- Cutouts and holes are provided to suit the handle, operating mechanism and door closing mechanism.
- Continuously hinged doors may be removed by pulling the hinge pin.
- Latch pivots and cover interlock brackets are welded to the door.
- Cover latch bars for door handles are provided.
- Collar studs are provided for mounting inner panels.
- A removable 12 gauge inner panel is included.
- Oil resistant gaskets are permanently secured and mechanically retained.
- A bonding stud is provided on the door and a grounding stud is provided in the enclosure.
- A literature pocket is provided.

## Note:

- Disconnects, operating mechanisms and door hardware are not provided with the enclosure, and must be ordered separately from the manufacturer.
- Enclosures with an "A" dimension under 40" require 2 point door closing hardware.
- Enclosures with an "A" dimension 40" or more require 3 point door closing hardware.

## Finish

- Door and enclosure are phosphatized and finished in ANSI 61 gray recoatable powder coating on the outside.
- Enclosure interior is finished in white powder coating.
- Inner panel is finished in white powder coating.

## Accessories

- Additional inner panels...see page **433**
- Air conditioners...see page **389**
- Blowers...see page **406**
- Breather kits...see page **423**
- Doorstop kits...see page **447**
- Drip shield kits...see page **447**
- Enclosure stabilizers...see page **451**
- Filter fans...see page **413-414**
- Floor stand kits...see page **448**
- Heaters...see page **418-420**
- Thermostats...see page **421**
- Window kits...see page **444**

Technical references and DXF downloads available at [www.hammfg.com](http://www.hammfg.com)

All dimensions in inches unless specified otherwise

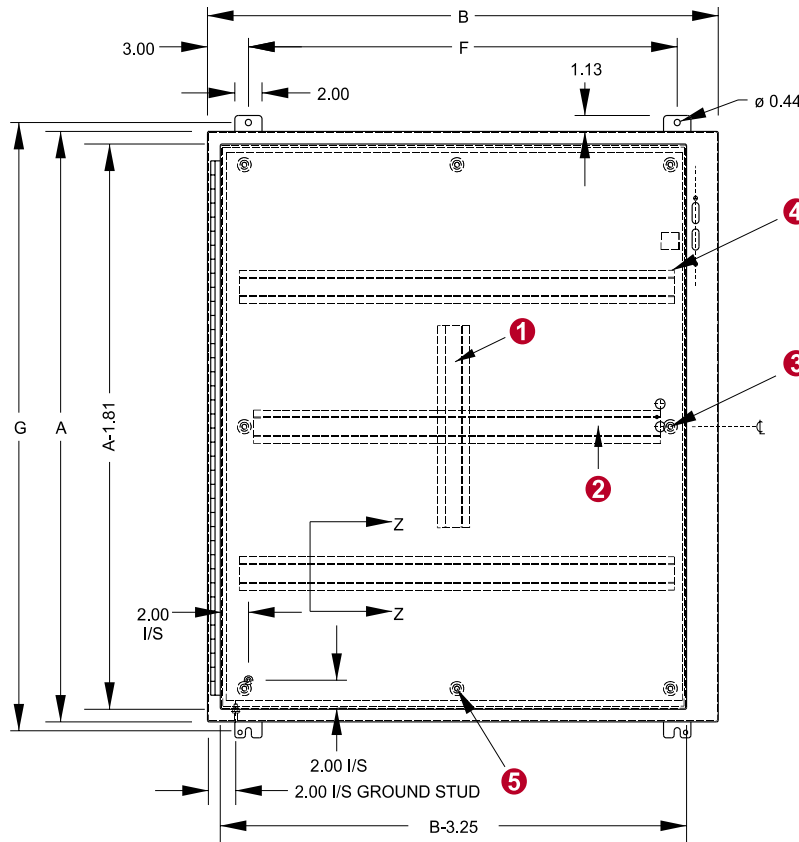
Wallmount Enclosures

# 1447S Single Door Disconnect Enclosures - NEMA 12, 13

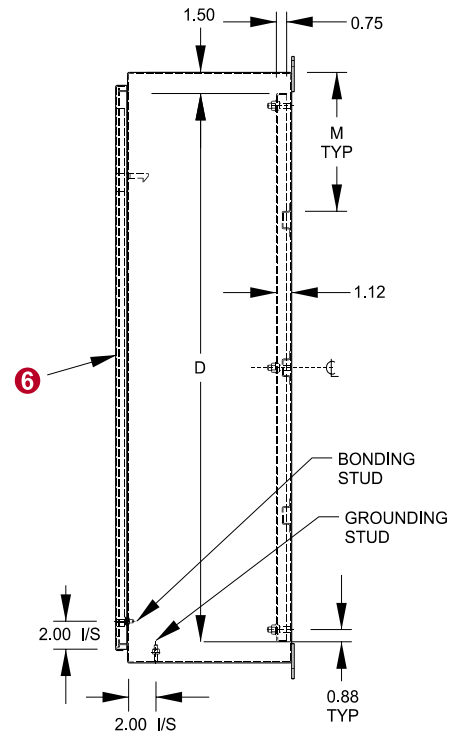
ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

Disconnect

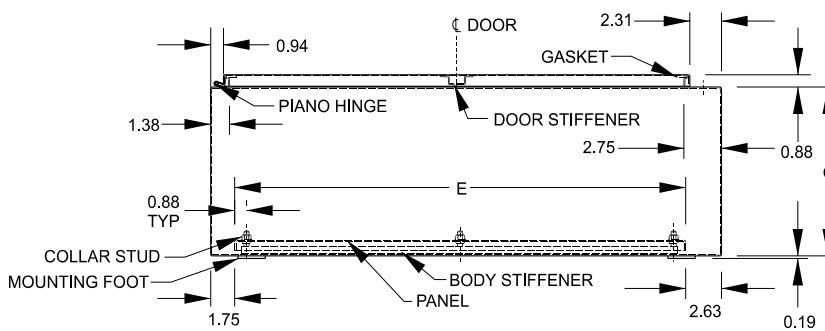
Wallmount Enclosures



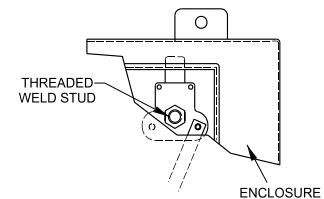
**Front View**



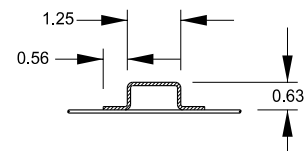
**Side View**



**Top View**



**Closing Mechanism**  
Catches top of enclosure only



**Section Z-Z**

| When A= | M=    |
|---------|-------|
| 36      | 9.00  |
| 42      | 9.88  |
| 48      | 11.38 |
| 60      | 14.38 |

- ① Vertical body stiffener req'd on 1447SG only.
- ② Omit center body stiffener if A is less than 41".
- ③ Omit 2 middle studs if A is less than 31".
- ④ Omit body stiffeners if B is 28" or less.
- ⑤ Omit 2 middle studs if B is less than 32".
- ⑥ Omit door stiffener if B is 32" or less except if AxB is 42"x31.38".

# 1447S Single Door Disconnect Enclosures - NEMA 12, 13

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

Disconnect

Wallmount Enclosures

| Part No.   | Panel Size |       |    |    |      | Mounting Center |       | Ship Wt. lbs | Center Stiffener <sup>2</sup> |
|------------|------------|-------|----|----|------|-----------------|-------|--------------|-------------------------------|
|            | A          | B     | C  | D  | E    | F               | G     |              |                               |
| 1447SA8    | 20         | 21.38 | 8  | 17 | 17   | 15.38           | 21.25 | 51           | N                             |
| 1447SB8    | 24         | 21.38 | 8  | 21 | 17   | 15.38           | 25.25 | 60           | N                             |
| 1447SC8    | 24         | 25.38 | 8  | 21 | 21   | 19.38           | 25.25 | 71           | N                             |
| 1447SD8    | 30         | 21.38 | 8  | 27 | 17   | 15.38           | 31.25 | 74           | N                             |
| 1447SE8    | 30         | 25.38 | 8  | 27 | 21   | 19.38           | 31.25 | 87           | N                             |
| 1447SF8    | 36         | 25.38 | 8  | 33 | 21   | 19.38           | 37.25 | 98           | N                             |
| 1447SG8    | 36         | 31.38 | 8  | 33 | 27   | 25.38           | 37.25 | 121          | N                             |
| 1447SH8    | 42         | 31.38 | 8  | 39 | 27   | 25.38           | 43.25 | 135          | I                             |
| 1447SJ8    | 42         | 37.38 | 8  | 39 | 33   | 31.38           | 43.25 | 154          | I                             |
| 1447SK8    | 48         | 37.38 | 8  | 45 | 33   | 31.38           | 49.25 | 172          | I                             |
| 1447SL8    | 60         | 37.38 | 8  | 57 | 33   | 31.38           | 61.25 | 248          | I                             |
| 1447SA10   | 20         | 21.38 | 10 | 17 | 17   | 15.38           | 21.25 | 52           | N                             |
| 1447SB10   | 24         | 21.38 | 10 | 21 | 17   | 15.38           | 25.25 | 63           | N                             |
| 1447SC10   | 24         | 25.38 | 10 | 21 | 21   | 19.38           | 25.25 | 71           | N                             |
| 1447SD10   | 30         | 21.38 | 10 | 27 | 17   | 15.38           | 31.25 | 80           | N                             |
| 1447SE10   | 30         | 25.38 | 10 | 27 | 21   | 19.38           | 31.25 | 90           | N                             |
| 1447SF10   | 36         | 25.38 | 10 | 33 | 21   | 19.38           | 37.25 | 100          | N                             |
| 1447SG10   | 36         | 31.38 | 10 | 33 | 27   | 25.38           | 37.25 | 126          | N                             |
| 1447SH10   | 42         | 31.38 | 10 | 39 | 27   | 25.38           | 43.25 | 143          | I                             |
| 1447SJ10   | 42         | 37.38 | 10 | 39 | 33   | 31.38           | 43.25 | 193          | I                             |
| 1447SK10   | 48         | 37.38 | 10 | 45 | 33   | 31.38           | 49.25 | 180          | I                             |
| 1447SL10   | 60         | 37.38 | 10 | 57 | 33   | 31.38           | 61.25 | 255          | I                             |
| 1447SE12   | 30         | 25.38 | 12 | 27 | 21   | 19.38           | 31.25 | 100          | N                             |
| 1447SG12   | 36         | 31.38 | 12 | 33 | 27   | 25.38           | 37.25 | 130          | N                             |
| 1447SH12   | 42         | 31.38 | 12 | 39 | 27   | 25.38           | 43.25 | 150          | I                             |
| 1447SJ12   | 42         | 37.38 | 12 | 39 | 33   | 31.38           | 43.25 | 200          | I                             |
| 1447SK12   | 48         | 37.38 | 12 | 45 | 33   | 31.38           | 49.25 | 220          | I                             |
| 1447SL12   | 60         | 37.38 | 12 | 57 | 33   | 31.38           | 61.25 | 265          | I                             |
| 1447S46L12 | 60         | 37.38 | 12 | 57 | 34.5 | 31.38           | 61.25 | 265          | I                             |
| 1447SG16   | 36         | 31.38 | 16 | 33 | 27   | 25.38           | 37.25 | 150          | N                             |
| 1447SK16   | 48         | 37.38 | 16 | 45 | 33   | 31.38           | 49.25 | 200          | I                             |
| 1447SL16   | 60         | 37.38 | 16 | 57 | 33   | 31.38           | 61.25 | 265          | I                             |

<sup>2</sup> Center stiffener; N = Not Included I = Included

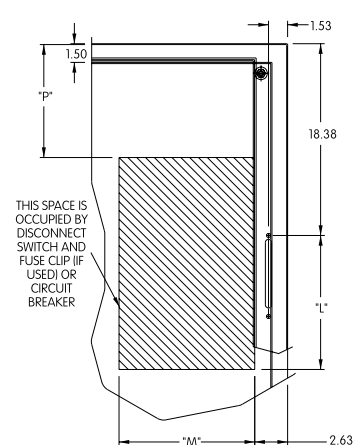
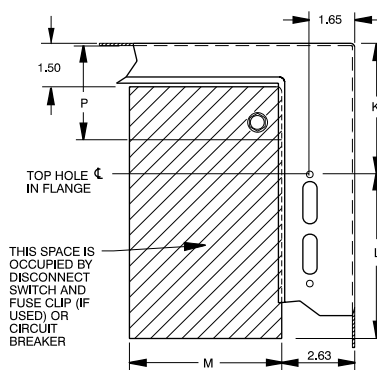
## Space Occupied by Disconnect

Note: "K" = 4.75 when "C" = 8.00  
 "K" = 7.09 when "C" = 10.00  
 "K" = 11.62 when "C" = 12.00  
 "K" = 11.62 when "C" = 16.00  
 "K" = 18.38 for 1447S46L12  
 "P" = Wiring Space

Disconnects will occupy space on panel shown by dimensions "K", "L" and "M".

Wiring space "P" is available when disconnect is installed in the enclosure.

\*The disconnect information and space occupied tables based on data supplied by disconnect manufacturer's bulletins. Hammond Manufacturing not responsible for dimensional accuracy.



**1447S46L12 only**  
**1494V-H2 and ITE PHOHN**  
**Operating Handle**

# 1447S Single Door Disconnect Enclosures - NEMA 12, 13

## Selection Guide

Disconnect

Wallmount Enclosures

| Hammond Series          |                                                            | 1447S                                                                                                                                             |
|-------------------------|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ABB Controls</b>     | <b>Disconnect Switch</b>                                   | Flange operated switch (fusible or non-fusible)                                                                                                   |
|                         |                                                            | Shaft: 8-12" dp enclosures, use DSFHS-12; 16" dp enclosures, use DSFHS-17                                                                         |
|                         |                                                            | Handle: DSFHN-HS12                                                                                                                                |
|                         |                                                            | Door Hardware: 2 pt. Latching, use KDHR2; 3 pt. Latching, use KDHR3 and FH-3RL                                                                    |
|                         | <b>Circuit Breaker</b>                                     | Circuit breaker: ABB                                                                                                                              |
|                         |                                                            | Operating Mechanism: see ABB chart                                                                                                                |
|                         |                                                            | Shaft: 8-12" dp enclosures, use K7FHD-S12; 16" dp enclosures, use K7FHD-S17                                                                       |
|                         |                                                            | Handle: K7FHD-HS12                                                                                                                                |
|                         |                                                            | Door Hardware: 2 pt. Latching, use FH-DHK; 3 pt. Latching, use FH-DHK and FH-3RL                                                                  |
| <b>Allen Bradley</b>    | <b>1494V Flange Disconnect Switch</b>                      | Disconnect switch and operating mechanism: Bulletin 1494V                                                                                         |
|                         |                                                            | Handle: Bulletin 1494V-H1 (except for Hammond part # 1447S46L12, use 1494V-H2)                                                                    |
|                         |                                                            | Connecting rod: 8-10" dp enclosures, use 1494V-RA1; 12-16" dp enclosures, use 1494V-RA2 (except for Hammond part # 1447S46L12, use 1494V-RB2 (2)) |
|                         |                                                            | Trailer fuse block kit (if required): Bulletin 1494V                                                                                              |
|                         |                                                            | Fuse kit (if required)                                                                                                                            |
|                         |                                                            | Line and load connectors (if required)                                                                                                            |
|                         |                                                            | Door Hardware: 2 pt. Latching, use 1494V-L1; 3 pt. Latching, use 1494V-L2                                                                         |
|                         | <b>1494V Flange Circuit Breaker</b>                        | Circuit breaker: C-H Westinghouse                                                                                                                 |
|                         |                                                            | Operating mechanism: Bulletin 1494V                                                                                                               |
|                         |                                                            | Handle: Bulletin 1494V-H11                                                                                                                        |
|                         |                                                            | Connecting rod: 8-10" dp enclosures, use 1494V-RA1; 12-16" dp enclosures, use 1494V-RA2                                                           |
|                         |                                                            | Door Hardware: 2 pt. Latching, use 1494V-L1; 3 pt. Latching, use 1494V-L2                                                                         |
| <b>Cutler Hammer</b>    | <b>Type C361 Disconnect Switch</b>                         | Disconnect switch and operating mechanism                                                                                                         |
|                         |                                                            | Handle: C361-H1 or H3                                                                                                                             |
|                         | <b>Type C371 Circuit Breaker</b>                           | Door Hardware: 2 pt. Latching, use C361KJ4 or KJ6; 3 pt. Latching, use C361KJ4 or KJ6, and C361KR                                                 |
|                         |                                                            | Circuit breaker: C-H Westinghouse                                                                                                                 |
|                         |                                                            | Operating mechanism                                                                                                                               |
|                         | <b>C-H Westinghouse Circuit Breaker w/FlexShaft</b>        | Handle: 150 amp, use C371H1 or H3; 250-600 amp, use C371H5 or H7                                                                                  |
|                         |                                                            | Door Hardware: 2 pt. Latching, use C361KJ4 or KJ6; 3 pt. Latching, use C361KJ4 or KJ6, and C361KR                                                 |
|                         |                                                            | Circuit breaker                                                                                                                                   |
| <b>General Electric</b> | <b>Type STDA Flange Disconnect Switch</b>                  | Complete Flex-Shaft handle mechanism                                                                                                              |
|                         |                                                            | Door Hardware: 2 pt. Latching, use C361KJ4 or KJ6; 3 pt. Latching, use C361KJ4 or KJ6, and C361KR                                                 |
|                         | <b>Type STDA Flange Circuit Breaker</b>                    | Disconnect switch Type QMR or QMW                                                                                                                 |
|                         |                                                            | Handle: STDA1 or STDA2                                                                                                                            |
|                         |                                                            | Fuse kit (if required)                                                                                                                            |
|                         |                                                            | Variable depth operating mechanism                                                                                                                |
| <b>I-T-E Siemens</b>    | <b>Max-Flex Flange Disconnect Switch</b>                   | Door Hardware: 2 pt. Latching, use TDV-1; 3 pt. Latching, use TDV-1 and TDV-3                                                                     |
|                         |                                                            | Circuit breaker                                                                                                                                   |
|                         |                                                            | Handle: STDA1 or STDA2                                                                                                                            |
|                         |                                                            | Variable depth operating mechanism                                                                                                                |
|                         | <b>Max-Flex Flange Circuit Breaker</b>                     | Door Hardware: 2 pt. Latching, use TDV-1; 3 pt. Latching, use TDV-1 and TDV-3                                                                     |
|                         |                                                            | Circuit breaker                                                                                                                                   |
|                         |                                                            | Flange Mt. Handle: 150-600 amp, use STDA1; SK1200, use STDA3                                                                                      |
|                         |                                                            | Breaker mounted mechanism.                                                                                                                        |
| <b>Square D</b>         | <b>Class 9422 Disconnect Switch</b>                        | Operating cable                                                                                                                                   |
|                         |                                                            | Door Hardware: 2 pt. Latching, use TDV-1; 3 pt. Latching, use TDV-1 and TDV-3                                                                     |
|                         | <b>Class 9422 Circuit Breaker</b>                          | Disconnect switch: MCS                                                                                                                            |
|                         |                                                            | Fuse Kit (if required)                                                                                                                            |
|                         |                                                            | Handle: Flange mount FHOHS                                                                                                                        |
|                         |                                                            | Switch operator mechanism                                                                                                                         |
| <b>Siemens</b>          | <b>Max-Flex Flange Disconnect Switch</b>                   | Operating cable (standard 36.0")                                                                                                                  |
|                         |                                                            | Door Hardware: 2 pt. Latching, use DKR2; 3 pt. Latching, use DKR3                                                                                 |
|                         | <b>Max-Flex Flange Circuit Breaker</b>                     | Circuit breaker                                                                                                                                   |
|                         |                                                            | Pressure wire connectors                                                                                                                          |
|                         |                                                            | Handle: Flange mount FHOH (except for Hammond part # 1447S46L12, use FHOHN)                                                                       |
|                         |                                                            | Circuit breaker operator mechanism                                                                                                                |
| <b>Square D</b>         | <b>Class 9422 "T" Disconnect Switch w/ cable mechanism</b> | Operating cable: 125-600 amp, use 36"; 800 amp, use 48"                                                                                           |
|                         |                                                            | Door Hardware: 2 pt. Latching, use DKR2; 3 pt. Latching, use DKR3                                                                                 |
|                         | <b>Circuit Breaker w/ cable mechanism</b>                  | Disconnect switch and operating mechanism 9422                                                                                                    |
|                         |                                                            | Handle: Type A-1                                                                                                                                  |
|                         |                                                            | Door Hardware: 2 pt. Latching, use 9423-M4 or M9; 3 pt. Latching, use 9423-M4 or M9, and 9423-M3                                                  |
|                         |                                                            | Circuit breaker                                                                                                                                   |
| <b>Siemens</b>          | <b>Class 9422 "T" Disconnect Switch w/ cable mechanism</b> | Operating mechanism: Class 9422                                                                                                                   |
|                         |                                                            | Handle: Type A-1                                                                                                                                  |
|                         | <b>Circuit Breaker w/ cable mechanism</b>                  | Door Hardware: 2 pt. Latching, use 9423-M4 or M9; 3 pt. Latching, use 9423-M4 or M9, and 9423-M3                                                  |
|                         |                                                            | Disconnect switch and operating mechanism 9422, Type T                                                                                            |
|                         |                                                            | Handle: Type A-1                                                                                                                                  |
|                         |                                                            | Cable mechanism: Class 9422 CFT O - 3, 5, or 10 foot                                                                                              |
| <b>Square D</b>         | <b>Class 9422 "T" Disconnect Switch w/ cable mechanism</b> | Door Hardware: 2 pt. Latching, use 9423-M4; 3 pt. Latching, use 9423-M4 or M9, and 9423-M3                                                        |
|                         |                                                            | Circuit breaker: Square D                                                                                                                         |
|                         | <b>Circuit Breaker w/ cable mechanism</b>                  | Handle: Type A-1                                                                                                                                  |
|                         |                                                            | Door Hardware: 2 pt. Latching, use 9423-M4; 3 pt. Latching, use 9423-M4 or M9, and 9423-M3                                                        |

Technical references and DXF downloads available at [www.hammfg.com](http://www.hammfg.com)

All dimensions in inches unless specified otherwise

**Quality Enclosures. Service Excellence.**

# 1447S Single Door Disconnect Enclosures - NEMA 12, 13

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

## ABB Controls

### ABB Controls Disconnect Switches (Flange Mounted Operators)

| Fits Enclosure Depth |    |    |    | ABB Switch Number | Amp Rating | Fuse Clip | Fuse Class     | Space Occupied |      | When K=4.75 P | When K=7.09 P | When K=11.62 P |
|----------------------|----|----|----|-------------------|------------|-----------|----------------|----------------|------|---------------|---------------|----------------|
| 8                    | 10 | 12 | 16 |                   |            |           |                | L              | M    |               |               |                |
| •                    | •  | •  | •  | OETL-NF30-F       | 30A        | No Fuse   | —              | 4.45           | 3.78 | 6.41          | 8.75          | 13.28          |
| •                    | •  | •  | •  | OETL-NF60-F       | 60A        | No Fuse   | —              | 4.86           | 3.78 | 6.22          | 8.56          | 13.09          |
| •                    | •  | •  | •  | OETL-NF100-F      | 100A       | No Fuse   | —              | 4.86           | 4.78 | 5.66          | 8.00          | 12.53          |
|                      | •  | •  | •  | OETL-NF175-F      | 175A       | No Fuse   | —              | 7.30           | 6.49 | —             | 5.75          | 10.28          |
|                      | •  | •  | •  | OETL-NF200-F      | 200A       | No Fuse   | —              | 7.36           | 7.28 | —             | 5.75          | 10.28          |
| •                    | •  | •  | •  | OESA-F30J6-F      | 30A        | 30A-600V  | J              | 4.28           | 6.58 | 4.73          | 7.07          | 11.61          |
| •                    | •  | •  | •  | OESA-F60J6-F      | 60A        | 60A-600V  | J              | 4.28           | 6.26 | 4.73          | 7.07          | 11.61          |
| •                    | •  | •  | •  | OESA-F100J6-F     | 100A       | 100A-600V | J <sup>1</sup> | 6.54           | 7.65 | 4.30          | 6.64          | 11.17          |
| 200A <sup>2</sup>    |    |    |    |                   |            |           |                |                |      |               |               |                |

<sup>1</sup> J type fuse clips are standard. If 600 V Type "T" fuse clips are desired order T type fuse adaptor kit.

<sup>2</sup> 200 A available by using non-fusible 200A switch and a trailing fuse block. (consult ABB)

### ABB Controls Circuit Breaker (Flange Mounted Operators)

| Fits Enclosure Depth |    |    |    | ISOMAX Circuit Breaker | Amp Rating | Operating Mechanism | Space Frame Type | Space Occupied |       | When K=4.75 P | When K=7.09 P | When K=11.62 P |
|----------------------|----|----|----|------------------------|------------|---------------------|------------------|----------------|-------|---------------|---------------|----------------|
| 8                    | 10 | 12 | 16 |                        |            |                     |                  | L              | M     |               |               |                |
| •                    | •  | •  | •  | S1N100TL               | 100A       | K2FHD-M             | S1               | 5.30           | 4.60  | 5.26          | 7.60          | 12.13          |
|                      | •  | •  | •  | S3N150TW               | 150A       | K3FHD-M             | S3               | 6.67           | 5.02  |               | 7.00          | 11.53          |
|                      | •  | •  | •  | S3N225TW               | 225A       | K3FHD-M             | S3               | 6.67           | 5.02  |               | 7.00          | 11.53          |
|                      | •  | •  | •  | S4N250BW               | 250A       | K4FHD-M             | S4               | 8.45           | 5.02  |               | 5.47          | 10.00          |
|                      | •  | •  | •  | S5N400TW               | 400A       | K5FHD-M             | S5               | 8.45           | 6.40  |               | 5.47          | 10.00          |
|                      |    | •  | •  | S6N600TW               | 600A       | K6FHD-M             | S6               | 8.33           | 10.00 |               |               | 9.33           |
|                      |    | •  | •  | S6N800TW               | 800A       | K6FHD-M             | S6               | 8.33           | 10.00 |               |               | 9.33           |

Charts reference Space Occupied by Disconnect Drawing.

Disconnect

Wallmount Enclosures

# 1447S Single Door Disconnect Enclosures - NEMA 12, 13

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

## Allen Bradley

### Allen Bradley 1494V Disconnect Switches

| Fits Enclosure Depth |    |    |    | Allen Bradley<br>Type Number | Amp<br>Rating | Fuse<br>Clip | Fuse<br>Class | Space<br>Occupied |                | When<br>K=4.75<br>P | When<br>K=7.09<br>P | When<br>K=11.62<br>P |
|----------------------|----|----|----|------------------------------|---------------|--------------|---------------|-------------------|----------------|---------------------|---------------------|----------------------|
| 8                    | 10 | 12 | 16 |                              |               |              |               | L                 | M <sup>1</sup> |                     |                     |                      |
| •                    | •  | •  | •  | DS30                         | 30A           | No Fuse      | —             | 3.88              | 6.62           | 2.88                | 5.25                | 9.75                 |
| •                    | •  | •  | •  | DS30                         | 30A           | 30A-250V     | H,K,R         | 5.25              | 6.62           | 2.88                | 5.25                | 9.75                 |
| •                    | •  | •  | •  | DS30                         | 30A           | 30A-600V     | H,K,R         | 8.00              | 6.62           | 2.88                | 5.25                | 9.75                 |
| •                    | •  | •  | •  | DS30                         | 30A           | 30A-600V     | J             | 5.25              | 6.62           | 2.88                | 5.25                | 9.75                 |
| •                    | •  | •  | •  | DS30                         | 30A           | 60A-250V     | H,K           | 6.00              | 6.62           | 2.88                | 5.25                | 9.75                 |
| •                    | •  | •  | •  | DS30                         | 30A           | 60A-600V     | H,K           | 8.50              | 6.62           | 2.88                | 5.25                | 9.75                 |
| •                    | •  | •  | •  | DS30                         | 30A           | 60A-600V     | J             | 5.38              | 6.62           | 2.88                | 5.25                | 9.75                 |
| •                    | •  | •  | •  | DS60                         | 60A           | No Fuse      | —             | 3.88              | 6.62           | 2.75                | 5.12                | 9.62                 |
| •                    | •  | •  | •  | DS60                         | 60A           | 60A-250V     | H,K,R         | 6.00              | 6.62           | 2.75                | 5.12                | 9.62                 |
| •                    | •  | •  | •  | DS60                         | 60A           | 60A-600V     | H,K,R         | 8.50              | 6.62           | 2.75                | 5.12                | 9.62                 |
| •                    | •  | •  | •  | DS60                         | 60A           | 60A-600V     | J             | 5.38              | 6.62           | 2.75                | 5.12                | 9.62                 |
| •                    | •  | •  | •  | DS60                         | 60A           | 30A-600V     | H,K,R         | 8.00              | 6.62           | 2.75                | 5.12                | 9.62                 |
| •                    | •  | •  | •  | DS60                         | 60A           | 100A-250V    | H,K           | 8.50              | 6.62           | 2.75                | 5.12                | 9.62                 |
| •                    | •  | •  | •  | DS60                         | 60A           | 100A-600V    | H,K           | 10.50             | 6.62           | 2.75                | 5.12                | 9.62                 |
| •                    | •  | •  | •  | DS60                         | 60A           | 100A-600V    | J             | 7.25              | 6.62           | 2.75                | 5.12                | 9.62                 |
| •                    | •  | •  | •  | DS100 <sup>2</sup>           | 100A          | No Fuse      | —             | 3.88              | 6.62           | —                   | 5.12                | 9.62                 |
| •                    | •  | •  | •  | DS100 <sup>2</sup>           | 100A          | 100A-250V    | H,K,R         | 8.12              | 6.62           | —                   | 5.12                | 9.62                 |
| •                    | •  | •  | •  | DS100 <sup>2</sup>           | 100A          | 100A-600V    | H,K,R         | 10.12             | 6.62           | —                   | 5.12                | 9.62                 |
| •                    | •  | •  | •  | DS100 <sup>2</sup>           | 100A          | 100A-600V    | J             | 6.88              | 6.62           | —                   | 5.12                | 9.62                 |
| •                    | •  | •  | •  | DS100 <sup>2</sup>           | 100A          | 60A-600V     | H,K,R         | 10.12             | 6.62           | —                   | 5.12                | 9.62                 |
| •                    | •  | •  | •  | DS100 <sup>2</sup>           | 100A          | 60A-600V     | J             | 8.88              | 6.62           | —                   | 5.12                | 9.62                 |
| •                    | •  | •  | •  | DS200 <sup>2</sup>           | 200A          | No Fuse      | —             | 4.75              | 7.88           | —                   | —                   | 8.12                 |
| •                    | •  | •  | •  | DS200 <sup>2</sup>           | 200A          | 200A-250V    | H,K,R         | 10.88             | 7.88           | —                   | —                   | 8.12                 |
| •                    | •  | •  | •  | DS200 <sup>2</sup>           | 200A          | 200A-600V    | H,K,R         | 13.38             | 7.88           | —                   | —                   | 8.12                 |
| •                    | •  | •  | •  | DS200 <sup>2</sup>           | 200A          | 200A-600V    | J             | 9.50              | 7.88           | —                   | —                   | 8.12                 |
| •                    | •  | •  | •  | DS200 <sup>2</sup>           | 200A          | 100A-600V    | H,K,R         | 12.00             | 7.88           | —                   | —                   | 8.12                 |
| •                    | •  | •  | •  | DS200 <sup>2</sup>           | 200A          | 100A-600V    | J             | 8.75              | 7.88           | —                   | —                   | 8.12                 |
| •                    | •  | •  | •  | DS400 <sup>3</sup>           | 400A          | no fuse      | —             | 10.75             | 10.88          | —                   | —                   | —                    |
| •                    | •  | •  | •  | DS400 <sup>3</sup>           | 400A          | 400A-250V    | H,K,R         | 16.12             | 10.88          | —                   | —                   | —                    |
| •                    | •  | •  | •  | DS400 <sup>3</sup>           | 400A          | 400A-600V    | H,K,R         | 19.12             | 10.88          | —                   | —                   | —                    |
| •                    | •  | •  | •  | DS400 <sup>3</sup>           | 400A          | 400A-600V    | J             | 14.62             | 10.88          | —                   | —                   | —                    |
| •                    | •  | •  | •  | DS600 <sup>3,4</sup>         | 600A          | no fuse      | —             | 10.75             | 10.88          | —                   | —                   | —                    |
| •                    | •  | •  | •  | DS600 <sup>3,4</sup>         | 600A          | 600A-250V    | H,R           | 10.75             | 10.88          | —                   | —                   | —                    |
| •                    | •  | •  | •  | DS600 <sup>3,4</sup>         | 600A          | 600A-600V    | H,R           | 10.75             | 10.88          | —                   | —                   | —                    |
| •                    | •  | •  | •  | DS600 <sup>3,4</sup>         | 600A          | 600A-600V    | J             | 17.59             | 10.88          | —                   | —                   | —                    |

<sup>1</sup>"M" dimension does not allow for auxiliary switches. <sup>2</sup>Series B

<sup>3</sup>The 400 amp disconnect switch and the 600 amp switch will only fit catalog number 1447S46L12. Wire bend space of 12.12 inches is provided above disconnect when installed.

<sup>4</sup>"L" and "M" do not include separately mounted fuse blocks

### Allen Bradley 1494V Circuit Breakers

| Fits Enclosure Depth |    |    |    | Allen Bradley<br>Type Number | Amp<br>Rating | Fuse Clip                                                       | Fuse<br>Class | Space<br>Occupied |                   | When<br>K=4.75<br>P | When<br>K=7.09<br>P | When<br>K=11.62<br>P |
|----------------------|----|----|----|------------------------------|---------------|-----------------------------------------------------------------|---------------|-------------------|-------------------|---------------------|---------------------|----------------------|
| 8                    | 10 | 12 | 16 |                              |               |                                                                 |               | L                 | M <sup>1</sup>    |                     |                     |                      |
| •                    | •  | •  | •  | M40                          | 15A-150A      | C-H Westinghouse<br>Circuit Breakers<br>EHD,FD,FDB,FDC,HFD,HMCP | —             | 5.00              | 4.50 <sup>1</sup> | 4.25                | 6.62                | 11.12                |
| •                    | •  | •  | •  | M50                          | 70A-250A      | C-H Westinghouse<br>Circuit Breakers<br>JD,JDB,JDC,HJD,HMCP     | —             | 9.75              | 4.75 <sup>1</sup> | —                   | —                   | 10.62                |
| •                    | •  | •  | •  | M60                          | 100A-400A     | C-H Westinghouse<br>Circuit Breakers<br>KD,KDB,DK,HKD,HMCP      | —             | 9.69              | 6.12 <sup>1</sup> | —                   | —                   | 10.50                |

<sup>1</sup>"M" dimension does not allow for auxiliary switches. Charts reference Space Occupied by Disconnect Drawing.

Technical references and DXF downloads available at [www.hammfg.com](http://www.hammfg.com)

All dimensions in inches unless specified otherwise

**Quality Enclosures. Service Excellence.**

# 1447S Single Door Disconnect Enclosures - NEMA 12, 13

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

## Cutler Hammer

### Cutler Hammer C361 Disconnect Switches

| Fits Enclosure Depth |    |    |    | Hammer<br>Type Number | Amp<br>Rating | Fuse<br>Clip | Fuse<br>Class | Space<br>Occupied |       | When<br>K=4.75<br>P | When<br>K=7.09<br>P | When<br>K=11.62<br>P |
|----------------------|----|----|----|-----------------------|---------------|--------------|---------------|-------------------|-------|---------------------|---------------------|----------------------|
| 8                    | 10 | 12 | 16 |                       |               |              |               | L                 | M     |                     |                     |                      |
| •                    | •  | •  | •  | <b>C361NC</b>         | 30A           | No Fuse      | —             | 5.75              | 7.43  | 3.44                | 5.75                | 10.31                |
| •                    | •  | •  | •  | <b>C361SC21</b>       | 30A           | 30A-250V     | H, K, R       | 8.38              | 7.43  | 3.44                | 5.75                | 10.31                |
| •                    | •  | •  | •  | <b>C361SC61</b>       | 30A           | 60A-250V     | H, K, R       | 8.38              | 7.43  | 3.44                | 5.75                | 10.31                |
| •                    | •  | •  | •  | <b>C361SC61</b>       | 30A           | 30A-600V     | H, J, K, R    | 8.38              | 7.43  | 3.44                | 5.75                | 10.31                |
| •                    | •  | •  | •  | <b>C361ND</b>         | 60A           | No Fuse      | —             | 5.75              | 7.43  | 3.44                | 5.75                | 10.31                |
| •                    | •  | •  | •  | <b>C361SD22</b>       | 60A           | 60A-250V     | H, K, R       | 8.38              | 7.43  | 3.44                | 5.75                | 10.31                |
| •                    | •  | •  | •  | <b>C361SD22</b>       | 60A           | 30A-600V     | J             | 8.38              | 7.43  | 3.44                | 5.75                | 10.31                |
| •                    | •  | •  | •  | <b>C361SD62</b>       | 60A           | 60A-600V     | H, K, R       | 8.38              | 7.43  | 3.44                | 5.75                | 10.31                |
| •                    | •  | •  | •  | <b>C361SD62</b>       | 60A           | 60A-600V     | J             | 8.38              | 7.43  | 3.44                | 5.75                | 10.31                |
| 1                    | •  | •  | •  | <b>C361NE</b>         | 100A          | No Fuse      | —             | 5.56              | 8.95  | 3.00                | 5.38                | 9.91                 |
| 1                    | •  | •  | •  | <b>C361SE263</b>      | 100A          | 100A-250V    | H, K, R       | 10.31             | 8.95  | 3.00                | 5.38                | 9.91                 |
| 1                    | •  | •  | •  | <b>C361SE263</b>      | 100A          | 100A-600V    | H, K, R       | 10.31             | 8.95  | 3.00                | 5.38                | 9.91                 |
| 1                    | •  | •  | •  | <b>C361SE263</b>      | 100A          | 100A-600V    | J             | 10.31             | 8.95  | 3.00                | 5.38                | 9.91                 |
|                      |    | 2  | 2  | <b>C361NF</b>         | 200A          | No Fuse      | —             | 13.06             | 10.00 | —                   | —                   | 7.94                 |
|                      |    | 2  | 2  | <b>C361SF264</b>      | 200A          | 200A-250V    | H, K, R       | 13.06             | 10.00 | —                   | —                   | 7.94                 |
|                      |    | 2  | 2  | <b>C361SF264</b>      | 200A          | 200A-600V    | H, J, K, R    | 13.06             | 10.00 | —                   | —                   | 7.94                 |

\*Wire bend space "P" does not allow the use of maximum cable size in 8" deep enclosures.

\*200A switch should be installed in enclosures with an "A" dimension of 30" or greater.

### Cutler Hammer C371 Circuit Breaker Operators (C-H Westinghouse Circuit Breakers)

| Fits Enclosure Depth |    |    |    | Cutler Hammer<br>Mechanism | Amp<br>Rating | Frame Type                 | Space<br>Occupied |       | When<br>K=4.75<br>P | When<br>K=7.09<br>P | When<br>K=11.62<br>P |
|----------------------|----|----|----|----------------------------|---------------|----------------------------|-------------------|-------|---------------------|---------------------|----------------------|
| 8                    | 10 | 12 | 16 |                            |               |                            | L                 | M     |                     |                     |                      |
| •                    | •  | •  | •  | <b>C371E</b>               | 205A          | F Frame EHD,FDB,FD,HFD,FDC | 6.00              | 5.50  | 4.44                | 6.81                | 11.44                |
| •                    | •  | •  | •  | <b>C371E</b>               | 150A          | F Frame HMCP               | 6.00              | 5.50  | 4.44                | 6.81                | 11.44                |
|                      | •  | •  | •  | <b>C371F</b>               | 250A          | J Frame JDB,JD,HJD,JDC     | 8.94              | 8.00  | —                   | 6.75                | 11.25                |
|                      | •  | •  | •  | <b>C371F</b>               | 250A          | J Frame HMCP               | 10.94             | 8.00  | —                   | 6.75                | 11.25                |
|                      | •  | •  | •  | <b>C371F</b>               | 400A          | K Frame DK,KDB,KD,HKD      | 9.75              | 8.00  | —                   | —                   | 10.75                |
|                      |    | •  | •  | <b>C371F</b>               | 400A          | K Frame HMCP               | 9.75              | 8.00  | —                   | —                   | 10.75                |
|                      |    | •  | •  | <b>C371G</b>               | 600A          | L Frame LD,HLD,LDC         | 8.44              | 11.88 | —                   | —                   | 9.18                 |
|                      |    | •  | •  | <b>C371G</b>               | 600A          | L Frame HMCP               | 8.44              | 11.88 | —                   | —                   | 9.18                 |

Charts reference Space Occupied by Disconnect Drawing.

Disconnect

Wallmount Enclosures

# 1447S Single Door Disconnect Enclosures - NEMA 12, 13

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

## Cutler Hammer

### Cutler Hammer Flex-Shaft™ Operator Mechanisms (C-H Westinghouse Circuit Breakers)

| Fits Enclosure Depth |    |    |    | Complete Operator Mechanisms | Amp Rating | Frame Type                     | Breaker Height "X" (in inches) | Breaker Width "Y" (in inches) |
|----------------------|----|----|----|------------------------------|------------|--------------------------------|--------------------------------|-------------------------------|
| 8                    | 10 | 12 | 16 |                              |            |                                |                                |                               |
| •                    | •  | •  | •  | F1S03                        | 150A       | F Frame EHD, FDB, FD, HFD, FDC | 6.00                           | 4.12                          |
| •                    | •  | •  | •  | F1S03                        | 150A       | F Frame HMCP                   | 6.00                           | 4.12                          |
| •                    | •  | •  | •  | F2S03                        | 250A       | J Frame JDB, JD, HJD, JDC      | 10.00                          | 4.12                          |
| •                    | •  | •  | •  | F2S03                        | 250A       | J Frame HMCP                   | 10.00                          | 4.12                          |
| •                    | •  | •  | •  | F3S03                        | 400A       | K FrameDK, KDB, KD, HKD        | 10.12                          | 5.50                          |
| •                    | •  | •  | •  | F3S03                        | 400A       | K Frame HMCP                   | 12.45                          | 5.50                          |
|                      | •  | •  | •  | F4S04                        | 600A       | L Frame LD, HLD, LDC           | 10.75                          | 8.25                          |
|                      | •  | •  | •  | F7S04                        | 800A       | M Frame MD, MDS                | 16.00                          | 8.25                          |
|                      | •  | •  | •  | F5S04                        | 1200A      | N Frame ND, HND, NDC           | 16.00                          | 8.25                          |
|                      | •  | •  | •  | F6S04                        | 2500A      | R Frame RD, CRD, RDC           | 16.00                          | 15.50                         |

Part numbers for Complete Operator Mechanisms include flange mounted handle, flexible shaft and circuit breaker mechanism. The last digit of the part number denotes the shaft length (F1S03=3' length).

- F,J,K frame Flex-Shafts™ available in 3' to 10' lengths.
- L,N,R frame Flex-Shafts™ available in 4' to 6' lengths.

### Space Occupied By Disconnect

1. Flex-Shaft™ System permits circuit breaker locations separate from flange mounted handle mechanism.
2. See National Electrical Code 2005 article 430-10(b) for wiring space (Ref "P") needed for line side conductors.
3. Select shaft length based on location of circuit breaker in the enclosure. Maintain a 4" minimum bending radius for the Flex-Shaft™.
4. Space occupied by circuit breaker is calculated by:
  - Overall (Height "X" and Width "Y")
  - Minimum wire bend space (manufacturer specified)
  - Location "M" from right to left.

Charts reference Space Occupied by Disconnect Drawing.

Disconnect

Wallmount Enclosures

# 1447S Single Door Disconnect Enclosures - NEMA 12, 13

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

## General Electric

### General Electric Type STDA Disconnect Switches

| Fits Enclosure Depth |    |    |    | General Electric Mechanisms For Switches | Amp Rating | Fuse Clip | Fuse Class | Space Occupied     |      | When K=4.75 P | When K=7.09 P | When K=11.62 P |
|----------------------|----|----|----|------------------------------------------|------------|-----------|------------|--------------------|------|---------------|---------------|----------------|
| 8                    | 10 | 12 | 16 |                                          |            |           |            | L                  | M    |               |               |                |
| 1                    | •  | •  | •  | <b>TDOM1A</b>                            | 30A        | No Fuse   | —          | 7.75 <sup>2</sup>  | 5.25 | 6.18          | 7.62          | 12.12          |
| 1                    | •  | •  | •  | <b>TDOM1A</b>                            | 30A        | 30A-250V  | H, R       | 7.75 <sup>2</sup>  | 5.25 | 6.18          | 7.62          | 12.12          |
| 1                    | •  | •  | •  | <b>TDOM1B</b>                            | 30A        | 30A-600V  | H, R       | 12.38 <sup>2</sup> | 5.25 | 6.18          | 7.62          | 12.12          |
| 1                    | •  | •  | •  | <b>TDOM1B</b>                            | 30A        | 60A-250V  | H, R       | 12.38 <sup>2</sup> | 5.25 | 6.18          | 7.62          | 12.12          |
| 1                    | •  | •  | •  | <b>TDOM1B</b>                            | 30A        | 60A-600V  | H, R       | 12.38 <sup>2</sup> | 5.25 | 6.18          | 7.62          | 12.12          |
| 1                    | •  | •  | •  | <b>TDOM1A</b>                            | 60A        | No Fuse   | —          | 7.75 <sup>2</sup>  | 5.25 | 6.18          | 7.62          | 12.12          |
| 1                    | •  | •  | •  | <b>TDOM1B</b>                            | 60A        | 60A-250V  | H, R       | 12.38 <sup>2</sup> | 5.25 | 6.18          | 7.62          | 12.12          |
| 1                    | •  | •  | •  | <b>TDOM1B</b>                            | 60A        | 60A-600V  | H, R       | 12.38 <sup>2</sup> | 5.25 | 6.18          | 7.62          | 12.12          |
| 1                    | •  | •  | •  | <b>TDOM1B</b>                            | 60A        | 100A-250V | H, R       | 12.38 <sup>2</sup> | 5.25 | 6.18          | 7.62          | 12.12          |
| 1                    | •  | •  | •  | <b>TDOM1B</b>                            | 60A        | 100A-600V | H, R       | 12.38 <sup>2</sup> | 5.25 | 6.18          | 7.62          | 12.12          |
| 1                    | •  | •  | •  | <b>TDOM1A</b>                            | 100A       | No Fuse   | —          | 7.75 <sup>2</sup>  | 5.25 | 6.18          | 7.62          | 12.12          |
| 1                    | •  | •  | •  | <b>TDOM1B</b>                            | 100A       | 100A-250V | H, R       | 12.38 <sup>2</sup> | 5.25 | 6.18          | 7.62          | 12.12          |
| 1                    | •  | •  | •  | <b>TDOM1B</b>                            | 100A       | 100A-600V | H, R       | 12.38 <sup>2</sup> | 5.25 | 6.18          | 7.62          | 12.12          |
| 1                    | •  | •  | •  | <b>TDOM1B</b>                            | 100A       | 200A-250V | H, R       | 12.38 <sup>2</sup> | 5.25 | 6.18          | 7.62          | 12.12          |
| 1                    | •  | •  | •  | <b>TDOM1B</b>                            | 100A       | 200A-600V | H, R       | 12.38 <sup>2</sup> | 5.25 | 6.18          | 7.62          | 12.12          |
|                      |    | •  | •  | <b>TDOM2</b>                             | 200A       | No Fuse   | —          | 7.00               | 9.12 | —             | —             | 9.50           |
|                      |    | •  | •  | <b>TDOM2</b>                             | 200A       | 200A-250V | H, R       | 15.38              | 9.12 | —             | —             | 9.50           |
|                      |    | •  | •  | <b>TDOM2</b>                             | 200A       | 200A-600V | H, R       | 15.38              | 9.12 | —             | —             | 9.50           |

<sup>1</sup>Disconnect moved down 0.875" to fit on panel.

<sup>2</sup>Applies to 8" deep enclosures and is 0.875 less in 10", 12" and 16" deep enclosures.

### General Electric Type STDA Circuit Breaker Operators

| Fits Enclosure Depth |    |    |    | Cutler Hammer Mechanism | Amp Rating | Frame Type               | Space Occupied     |      | When K=4.75 P | When K=7.09 P | When K=11.62 P |
|----------------------|----|----|----|-------------------------|------------|--------------------------|--------------------|------|---------------|---------------|----------------|
| 8                    | 10 | 12 | 16 |                         |            |                          | L                  | M    |               |               |                |
| 1                    | •  | •  | •  | <b>SDOM1A</b>           | 150A       | TEB, TED, THED           | 7.75 <sup>2</sup>  | 5.25 | 6.06          | 7.50          | 12.06          |
| 1                    | •  | •  | •  | <b>SDOM1A</b>           | 150A       | TEC                      | 7.75 <sup>2</sup>  | 5.25 | 6.06          | 7.50          | 12.06          |
| 1                    | •  | •  | •  | <b>TDOM1B</b>           | 150A       | TB1                      | 12.38 <sup>2</sup> | 5.25 | 6.06          | 7.50          | 12.06          |
| 1                    | •  | •  | •  | <b>TDOM1B</b>           | 150A       | TEC, TECL                | 12.38 <sup>2</sup> | 5.25 | 6.06          | 7.50          | 12.06          |
| 1                    | •  | •  | •  | <b>TDOM1C</b>           | 150A       | TEL                      | 7.75 <sup>2</sup>  | 5.25 | 6.06          | 7.50          | 12.06          |
|                      | •  | •  | •  | <b>TDOM1D</b>           | 150A       | THLC1                    | 7.75               | 5.25 | —             | 5.12          | 9.62           |
|                      | •  | •  | •  | <b>TDOM3</b>            | 225A       | TFJ                      | 10.38              | 5.75 | —             | 6.06          | 10.62          |
|                      | •  | •  | •  | <b>TDOM3</b>            | 225A       | TFK, THFK, TFL           | 10.38              | 5.75 | —             | 6.06          | 10.62          |
|                      | •  | •  | •  | <b>TDOM4</b>            | 400A       | TJJ, TJK4, THJK4, TJL4V  | 8.25               | 9.38 | —             | 5.12          | 9.69           |
|                      | •  | •  | •  | <b>TDOM4</b>            | 600A       | TJK6, THJK6, TJ4V, TJL4V | 8.25               | 9.38 | —             | 5.12          | 9.69           |
|                      | •  | •  | •  | <b>TDOM5</b>            | 400A       | TB4, TJH6S               | 14.25              | 9.38 | —             | 5.12          | 9.69           |
|                      |    | •  | •  | <b>TDOM6</b>            | 225A       | TLB2, THLC2              | 11.75              | 9.38 | —             | —             | 9.12           |
|                      |    | •  | •  | <b>TDOM6</b>            | 400A       | TLB4, THLC4              | 11.75              | 9.38 | —             | —             | 7.75           |
| 1                    | •  | •  | •  | <b>SDOM1A</b>           | 150A       | SPECTRA SE150            | 7.75 <sup>2</sup>  | 5.25 | 6.06          | 7.50          | 12.06          |
|                      | •  | •  | •  | <b>SDOM3</b>            | 250A       | SPECTRA SF250            | 10.38              | 5.75 | —             | 6.06          | 10.62          |
|                      | •  | •  | •  | <b>SDOM4</b>            | 600A       | SPECTRA SG600            | 10.00              | 7.00 | —             | —             | 7.93           |

<sup>1</sup>Disconnect moved down 0.875" to fit on panel.

<sup>2</sup>Applies to 8" deep enclosures only. For 10", 12" and 16" deep enclosures, 0.875 less.

Charts reference Space Occupied by Disconnect Drawing.

# 1447S Single Door Disconnect Enclosures - NEMA 12, 13

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

## General Electric

### General Electric Circuit Breakers (Spectra-Flex™ Cable Operators)

| Fits Enclosure Depth |      |            | Frame Size | Max Amp Rating | Circuit Breaker Height "X" | Circuit Breaker Width "Y" |
|----------------------|------|------------|------------|----------------|----------------------------|---------------------------|
| C=8                  | C=10 | C=12 or 16 |            |                |                            |                           |
| •                    | •    | •          | E150       | 150A           | 6.31                       | 4.12                      |
| •                    | •    | •          | SE150      | 150A           | 6.31                       | 4.12                      |
|                      | •    | •          | SF250      | 250A           | 10.12                      | 4.12                      |
|                      |      | •          | SG600      | 600A           | 10.09                      | 5.50                      |
|                      |      | •          | SK1200     | 1200A          | 15.50                      | 8.25                      |

| Frame Size  | Breaker Mechanism | Flange Mounting Handle | Operating Cable   |
|-------------|-------------------|------------------------|-------------------|
| E150        | SCOM1A            | SCH1                   | SC3L <sup>1</sup> |
| SE150/SF250 | SCOM1EF           | SCH1                   | SC3L <sup>1</sup> |
| SG600       | SCOM1G            | SCH1                   | SC3L <sup>1</sup> |
| SK1200      | SCOM1K            | SCH2K                  | SC3H <sup>1</sup> |

<sup>1</sup>Operating Cables are available 3' to 10' lengths. In the table above, the number "3" in the part number indicates a 3' cable.

1. GE Spectra-Flex™ Operating Cables permit circuit breaker locations separate from flange mounted handle mechanism.
2. See National Electrical Code 2005 article 430-10(b) for wiring space (Ref "P") needed for line side conductors.
3. Select shaft length based on location of circuit breaker in the enclosure. Maintain a 3" minimum bending radius for the Flex-Shaft™.
4. Space occupied by circuit breaker is calculated by:
  - Overall (Height "X" and Width "Y")
  - Minimum wire bend space (manufacturer specified)
  - Location "M" from right to left.

Charts reference Space Occupied by Disconnect Drawing.

Disconnect

Wallmount Enclosures

# 1447S Single Door Disconnect Enclosures - NEMA 12, 13

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

## Siemens I-T-E

### I-T-E - Disconnect Switches (Max-Flex™ Operators)

| Fits Enclosure Depth |       |              | Switches | Amp Rating | Fuse Clip | Fuse Class | Disconnect Height "X" | Disconnect Width "Y" |
|----------------------|-------|--------------|----------|------------|-----------|------------|-----------------------|----------------------|
| C=8"                 | C=10" | C=12" or 16" |          |            |           |            |                       |                      |
| •                    | •     | •            | MCS603R  | 30A        | No Fuse   | —          | 5.52                  | 6.13                 |
| •                    | •     | •            | MCS603R  | 30A        | 30A-250V  | H,K,R      | 8.11                  | 6.13                 |
| •                    | •     | •            | MCS603R  | 30A        | 30A-600V  | H,K,R      | 10.11                 | 6.13                 |
| •                    | •     | •            | MCS603R  | 30A        | 30A-600V  | J          | 8.48                  | 6.13                 |
| •                    | •     | •            | MCS606R  | 60A        | No Fuse   | —          | 5.52                  | 6.13                 |
| •                    | •     | •            | MCS606R  | 60A        | 60A-250V  | H,K,R      | 7.86                  | 6.13                 |
| •                    | •     | •            | MCS606R  | 60A        | 60A-600V  | H,K,R      | 10.38                 | 6.13                 |
| •                    | •     | •            | MCS606R  | 60A        | 60A-600V  | J          | 8.36                  | 6.13                 |
| •                    | •     | •            | MCS610R  | 100A       | No Fuse   | —          | 7.59                  | 7.38                 |
| •                    | •     | •            | MCS610R  | 100A       | 100A-250V | H,K,R      | 11.85                 | 7.38                 |
| •                    | •     | •            | MCS610R  | 100A       | 100A-600V | H,K,R      | 13.85                 | 7.38                 |
| •                    | •     | •            | MCS610R  | 100A       | 100A-600V | J          | 10.60                 | 7.38                 |
| •                    | •     | •            | MCS620R  | 200A       | No Fuse   | —          | 9.00                  | 9.17                 |
| •                    | •     | •            | MCS620R  | 200A       | 200A-250V | H,K,R      | 14.70                 | 9.17                 |
| •                    | •     | •            | MCS620R  | 200A       | 200A-600V | H,K,R      | 17.20                 | 9.17                 |
| •                    | •     | •            | MCS620R  | 200A       | 200A-600V | J          | 13.32                 | 9.17                 |

### Siemens I-T-E Max-Flex™ Operators (Circuit Breakers)

| Complete Operator Mechanism | Amp Rating | Breaker Frame Size | Circuit Breaker Height "X" | Circuit Breaker Width "Y" | Circuit Breaker Type                                                                      |
|-----------------------------|------------|--------------------|----------------------------|---------------------------|-------------------------------------------------------------------------------------------|
| FHOE036                     | 125A       | ED                 | 6.34                       | 3.00                      | ED2, ED4, ED6, HED4, HED6                                                                 |
| FHOE036                     | 125A       | CED                | 9.58                       | 3.00                      | CED6                                                                                      |
| FHOF036                     | 250A       | FD                 | 9.50                       | 4.50                      | FXD6-A, FD6-A, HFD6, FXD6-ETJ, HHFD6, HHFXD6                                              |
| FHOF036                     | 250A       | CFD                | 14.25                      | 4.50                      | CFD6, CFD6-ETI                                                                            |
| FHOJ036                     | 400A, 600A | JD, LD             | 11.00                      | 7.50                      | JXD2, LXD6, JXD6, JD6, LD6, HJD6, HLD6, HHJD6, HHLJD6, HHJXD6, HHLDX6, JXD6-ETI, LXD6-ETI |
| FHOJ036                     | 400A, 600A | CJD, CLD           | 17.86                      | 7.50                      | CJD6, CLD6, CJD6-ETI, CLD6-ETI                                                            |
| FHOLM036                    | 800A       | LMD                | 16.00                      | 9.00                      | LMD6, LMXD6, HLMD6, HLMXD6, LMXD6-ET1                                                     |
| FHONO48                     | 800A       | MD                 | 24.00                      | 9.00                      | MD6, MXD6, HMD6, HMXD6, CMD6, MXD6-ETI, CMD6-ETI                                          |
| FHONO48                     | 1200A      | ND                 | 24.00                      | 9.00                      | ND6, NXD6, HND6, HNXD6, CND6                                                              |

Last three digits of operator mechanism part number denote cable length in inches.

- 48" cables are offered for ED,FD,JD/LD operators

#### Space Occupied By Disconnect

1. I-T-E Max-Flex™ System permits circuit breaker locations separate from flange mounted handle mechanism.
2. See National Electrical Code 2005 article 430-10(b) for wiring space (Ref "P") needed for line side conductors.
3. See Siemens I-T-E instructions for disconnect location limitations when using 36" or 48" Max-Flex™ cables.
4. Space occupied by circuit breaker is calculated by:
  - Overall (Height "X" and Width "Y")
  - Minimum wire bend space (manufacturer specified)
  - Location "M" from right to left.

Charts reference Space Occupied by Disconnect Drawing.

# 1447S Single Door Disconnect Enclosures - NEMA 12, 13

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

## Square D

### Square D Class 9422 Disconnect Switches

| Fits Enclosure Depth |    |    |    | Square D<br>Type Number | Amp<br>Rating | Fuse<br>Clip | Fuse<br>Class | Space<br>Occupied |       | When<br>K=4.75 | When<br>K=7.09 | When<br>K=11.62 |
|----------------------|----|----|----|-------------------------|---------------|--------------|---------------|-------------------|-------|----------------|----------------|-----------------|
| 8                    | 10 | 12 | 16 |                         |               |              |               | L                 | M     | P              | P              | P               |
| •                    | •  | •  | •  | TCN-30                  | 30A           | No Fuse      | —             | 3.80              | 6.84  | 3.69           | 6.03           | 10.56           |
| •                    | •  | •  | •  | TCF-30                  | 30A           | 30A-250V     | H, K, R       | 5.53              | 6.84  | 3.69           | 6.03           | 10.56           |
| •                    | •  | •  | •  | TCF-33                  | 30A           | 30A-600V     | H, K, R       | 8.15              | 6.84  | 3.69           | 6.03           | 10.56           |
| •                    | •  | •  | •  | TCF-33                  | 30A           | 60A-250V     | H, K, R       | 6.15              | 6.84  | 3.69           | 6.03           | 10.56           |
| •                    | •  | •  | •  | TCF-33                  | 30A           | 30A-600V     | J             | 5.53              | 6.84  | 3.69           | 6.03           | 10.56           |
| •                    | •  | •  | •  | TDN-60                  | 60A           | No Fuse      | —             | 3.80              | 6.84  | 3.69           | 6.03           | 10.56           |
| •                    | •  | •  | •  | TDF-60                  | 60A           | 30A-600V     | H, K, R       | 8.15              | 6.84  | 3.69           | 6.03           | 10.56           |
| •                    | •  | •  | •  | TDF-60                  | 60A           | 60A-250V     | H, K, R       | 6.15              | 6.84  | 3.69           | 6.03           | 10.56           |
| •                    | •  | •  | •  | TDF-63                  | 60A           | 60A-600V     | H, K, R       | 8.65              | 6.84  | 3.69           | 6.03           | 10.56           |
| •                    | •  | •  | •  | TDF-63                  | 60A           | 60A-600V     | J             | 5.53              | 6.84  | 3.69           | 6.03           | 10.56           |
| •                    | •  | •  | •  | TEN-10                  | 100A          | No Fuse      | —             | 3.80              | 6.84  | —              | 5.91           | 10.44           |
| •                    | •  | •  | •  | TEF-10                  | 100A          | 100A-250V    | H, K, R       | 8.25              | 6.84  | —              | 5.91           | 10.44           |
| •                    | •  | •  | •  | TEF-10                  | 100A          | 100A-600V    | H, K, R       | 10.25             | 6.84  | —              | 5.91           | 10.44           |
| •                    | •  | •  | •  | TEF-10                  | 100A          | 100A-600V    | J             | 7.05              | 6.84  | —              | 5.91           | 10.44           |
| •                    | •  | •  | •  | TC-1                    | 30A           | No Fuse      | —             | 5.75              | 6.00  | 3.12           | 5.12           | 9.62            |
| •                    | •  | •  | •  | TC-2                    | 30A           | 30A-250V     | H, K, R       | 5.75              | 6.00  | 3.12           | 5.12           | 9.62            |
| •                    | •  | •  | •  | TC-3                    | 30A           | 30A-600V     | H, K, R       | 7.75              | 6.00  | 3.12           | 5.12           | 9.62            |
| •                    | •  | •  | •  | TC-3                    | 30A           | 60A-250V     | H, K, R       | 5.88              | 6.00  | 3.12           | 5.12           | 9.62            |
| •                    | •  | •  | •  | TC-3                    | 30A           | 30A-600V     | J             | 5.75              | 6.00  | 3.12           | 5.12           | 9.62            |
| •                    | •  | •  | •  | TD-1                    | 60A           | No Fuse      | —             | 6.38              | 6.62  | 3.62           | 6.00           | 10.50           |
| •                    | •  | •  | •  | TD-2                    | 60A           | 30A-600V     | H, K, R       | 8.50              | 6.62  | 3.62           | 6.00           | 10.50           |
| •                    | •  | •  | •  | TD-2                    | 60A           | 60A-250V     | H, K, R       | 6.50              | 6.62  | 3.62           | 6.00           | 10.50           |
| •                    | •  | •  | •  | TD-3                    | 60A           | 60A-600V     | H, K, R       | 9.00              | 6.62  | 3.62           | 6.00           | 10.50           |
| •                    | •  | •  | •  | TD-3                    | 60A           | 60A-600V     | J             | 6.38              | 6.62  | 3.62           | 6.00           | 10.50           |
| •                    | •  | •  | •  | TE-1                    | 100A          | No Fuse      | —             | 4.75              | 8.38  | —              | 5.75           | 10.25           |
| •                    | •  | •  | •  | TE-2                    | 100A          | 100A-250V    | H, K, R       | 7.50              | 8.38  | —              | 5.75           | 10.25           |
| •                    | •  | •  | •  | TE-2                    | 100A          | 100A-600V    | H, K, R       | 9.50              | 8.38  | —              | 5.75           | 10.25           |
| •                    | •  | •  | •  | TE-2                    | 100A          | 100A-600V    | J             | 6.25              | 8.38  | —              | 5.75           | 10.25           |
| •                    | •  | •  | •  | TE-3                    | 100A          | 200A-600V    | J             | 13.75             | 8.38  | —              | 5.75           | 10.25           |
| •                    | •  | •  | •  | TF-1                    | 200A          | No Fuse      | —             | 5.50              | 11.62 | —              | —              | 8.88            |
| •                    | •  | •  | •  | TF-2                    | 200A          | 200A-250V    | H, K, R       | 11.50             | 11.62 | —              | —              | 8.88            |
| •                    | •  | •  | •  | TF-2                    | 200A          | 200A-600V    | H, K, R       | 14.00             | 11.62 | —              | —              | 8.88            |
| •                    | •  | •  | •  | TF-2                    | 200A          | 200A-600V    | J             | 10.12             | 11.62 | —              | —              | 8.88            |
| •                    | •  | •  | •  | TF-3                    | 200A          | 400A-600V    | J             | 14.50             | 11.62 | —              | —              | 8.88            |

### Square D Class 9422 Variable Depth Operators (Circuit Breakers)

| Fits Enclosure Depth |    |    |    | Square D Type<br>Number | Amp<br>Rating | Frame Type    | Space<br>Occupied |      | When<br>K=4.75    | When<br>K=7.09 | When<br>K=11.62 |
|----------------------|----|----|----|-------------------------|---------------|---------------|-------------------|------|-------------------|----------------|-----------------|
| 8                    | 10 | 12 | 16 |                         |               |               | L                 | M    | P                 | P              | P               |
| •                    | •  | •  | •  | RG-1                    | 75A           | GJL           | 3.53              | 3.74 | 3.59              | 5.93           | 10.47           |
| •                    | •  | •  | •  | RG-1                    | 100A          | GJL           | 3.53              | 3.74 | 3.59              | 5.93           | 10.47           |
| •                    | •  | •  | •  | RN-1                    | 100A          | FAL, FHL      | 5.12              | 5.25 | 3.75              | 6.12           | 10.62           |
| •                    | •  | •  | •  | RP-1                    | 250A          | KAL, KHL      | 7.12              | 5.62 | 4.25 <sup>1</sup> | 6.88           | 11.38           |
| •                    | •  | •  | •  | RR-1                    | 400A          | LAL, LHL, Q4L | 7.62              | 8.75 | —                 | —              | 7.00            |

<sup>1</sup> Not recommended except with #1 or smaller line conductors.

Charts reference Space Occupied by Disconnect Drawing.

# 1447S Single Door Disconnect Enclosures - NEMA 12, 13

ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D

Disconnect

## Square D

### Square D Class 9422 Disconnect Switches (Cable Mechanism 9422-CFT30 and 9422A-1 Handle Mechanism)

| C=8" | Fits Enclosure Depth |              | Square D<br>Type Number | Amp<br>Rating | Fuse<br>Clip | Fuse<br>Class | Disconnect<br>Height "X" | Disconnect<br>Width "Y" |
|------|----------------------|--------------|-------------------------|---------------|--------------|---------------|--------------------------|-------------------------|
|      | C=10"                | C=12" or 16" |                         |               |              |               |                          |                         |
| •    | •                    | •            | TCN-30                  | 30A           | No Fuse      | —             | 5.90                     | 6.20                    |
| •    | •                    | •            | TCF-30                  | 30A           | 30A-250V     | H, K, R       | 7.50                     | 6.20                    |
| •    | •                    | •            | TCF-33                  | 30A           | 30A-600V     | H, K, R       | 10.15                    | 6.20                    |
| •    | •                    | •            | TCF-33                  | 30A           | 60A-250V     | H, K, R       | 8.15                     | 6.20                    |
| •    | •                    | •            | TCF-33                  | 30A           | 30A-600V     | J             | 7.50                     | 6.20                    |
| •    | •                    | •            | TDN-60                  | 60A           | No Fuse      | —             | 5.90                     | 6.20                    |
| •    | •                    | •            | TDF-60                  | 60A           | 30A-600V     | H, K, R       | 10.15                    | 6.20                    |
| •    | •                    | •            | TDF-60                  | 60A           | 60A-250V     | H, K, R       | 8.15                     | 6.20                    |
| •    | •                    | •            | TDF-63                  | 60A           | 60A-600V     | H, K, R       | 10.65                    | 6.20                    |
| •    | •                    | •            | TDF-63                  | 60A           | 60A-600V     | J             | 7.5                      | 6.20                    |
|      | •                    | •            | TEN-10                  | 100A          | No Fuse      | —             | 5.90                     | 6.20                    |
|      | •                    | •            | TEF-10                  | 100A          | 100A-250V    | H, K, R       | 10.35                    | 6.20                    |
|      | •                    | •            | TEF-10                  | 100A          | 100A-600V    | H, K, R       | 12.35                    | 6.20                    |
|      | •                    | •            | TEF-10                  | 100A          | 100A-600V    | J             | 10.35                    | 6.20                    |

### Square D Class 9422 Cable Mechanism (Circuit Breakers)

| C=8" | Fits Enclosure Depth |              | Cable Type<br>Switch | Amp<br>Rating | Frame Type    | Circuit Breaker<br>Height "X" | Circuit Breaker<br>Width "Y" |
|------|----------------------|--------------|----------------------|---------------|---------------|-------------------------------|------------------------------|
|      | C=10"                | C=12" or 16" |                      |               |               |                               |                              |
| •    | •                    | •            | 9422 CGJ30           | 75A           | GJL           | 4.75                          | 3.50                         |
| •    | •                    | •            | 9422 CEJ30           | 100A          | GJL           | 4.75                          | 3.50                         |
| •    | •                    | •            | 9422 CFA30           | 100A          | FAL, FHL      | 6.00                          | 4.50                         |
| •    | •                    | •            | 9422 CKA30           | 250A          | KAL, KHL      | 8.00                          | 4.50                         |
|      |                      | •            | 9422 CLA30           | 400A          | LAL, LHL, Q4L | 11.00                         | 6.00                         |

Use cable mechanism with circuit breaker and 9422-A1 handle mechanism

Cable operators are offered in 3', 5', and 10' lengths. Last 2 digits of part numbers above (30) are for 3' cables

### Space Occupied By Disconnect Switch

1. Square D Cable System permits circuit breaker locations separate from flange mounted handle mechanism.
2. See National Electrical Code 2005 article 430-10(b) for wiring space (Ref "P") needed for line side conductors.
3. Select cable mechanism length based on disconnect location in enclosure. See Square D instructions for minimum cable bend radius.
4. Space occupied by circuit breaker is calculated by:
  - Overall (Height "X" and Width "Y")
  - Minimum wire bend space (manufacturer specified)

Charts reference Space Occupied by Disconnect Drawing.

Wallmount Enclosures