# UHDM Modular Disconnect Enclosures - NEMA 12

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

Inner Panel Included

## Application

Designed to bolt together in any number of units for maximum flexibility and ease of transportation. The UHDM system consists of a Master enclosure to house the flange mounted disconnect switch and interlocking Slave enclosures which may be added or removed as required. Master enclosure units will accept the following disconnect switches and circuit breakers:

- **ABB Controls** flange mounted variable depth operating mechanism for disconnect switches and circuit breakers.
- **Allen Bradley** 1494F flange mounted disconnect switches and 1494D flange mounted operators for circuit breakers. Allen Bradley 1494V variable depth flange operated disconnect switches and circuit breaker mechanisms.
- **C-H Westinghouse** Type C361 disconnect switches and operator mechanism. Cutler Hammer Type C371 circuit breaker operating mechanisms. Flex Shaft™ handle operators for circuit breakers.
- **General Electric** Type STDA flange handles and variable depth operating mechanisms for disconnect switches and circuit breakers. Also Spectra-Flex™ cable operators for circuit breakers.
- **I-T-E Max-Flex™** flange mounted variable depth operating handles for disconnect switches and circuit breakers.
- **Square D** disconnect switches and circuit breakers used with Class 9422 flange mounted variable depth operating mechanisms or cable mechanisms. These enclosures will not receive Class 9422 bracket mounted disconnect devices or Class 9422TG1 or TG2 devices.

## Standards

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

## Construction

- Formed from 10 gauge steel with smooth continuously welded seams.
- Body stiffeners are provided in the larger enclosures for extra rigidity.
- Heavy duty lifting eyes are anchored into reinforced top corners.
- Removable doors are secured with heavy duty lift off hinges.
- Flange trough collar (FTC) around door excludes liquids and contaminants.
- Formed 10 gauge steel inner panels are provided on collar studs.
- Panel supports are provided.
- Center post is removable, providing easy panel installation.
- Heavy duty three point latching door mechanism.
- Side openings are reinforced to provide structural strength, smooth edges and preset gasket compression.
- Oil resistant gaskets on doors and side openings are permanently secured. No gasket kit is provided.
- Master door handle complete with screw defeater and padlock hasp.
- Slave door handle complete with padlock hasp.
- A mechanical interlock activated by the master door prevents the auxiliary door from being opened first.
- The universal flange cutout provides mounting for disconnect operators by use of the appropriate operator adaptor kit.
- A bonding stud is provided in the door and a grounding stud is provided in the enclosure for each door.
- A literature pocket is provided.

**Note:**

- Disconnect switches, circuit breakers and operators are not provided with the enclosure, and must be ordered separately from the manufacturer.

## Finish

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

## Accessories

- Additional inner panels...*contact factory*
- Air conditioners...*see page* **349-367**
- Blank adaptor plates...*see page* **182**
- Operator adaptor kits...*see page* **182**
- Blowers...*see page* **392**
- Breather kits...*see page* **400-401**
- Doorstop kits...*see page* **453**
- Enclosure stabilizers...*see page* **456**
- Filter fans...*see page* **371-384**
- Floor stand kits...*see page* **453**
- Heaters...*see page* **393-396**
- Light kits...*see page* **452**
- Thermostats...*see page* **397**
- Window kits...*see page* **449**

Technical references and CAD downloads available at www.hammondmfg.com

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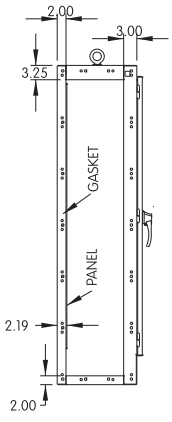
# UHDM Modular Disconnect Enclosures - NEMA 12

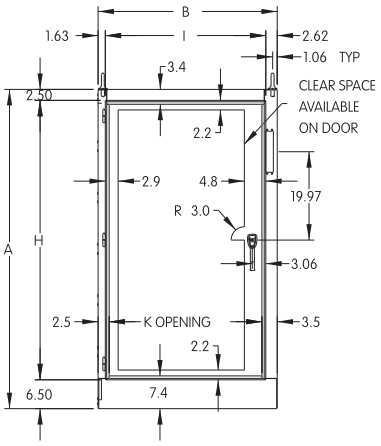
## ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D



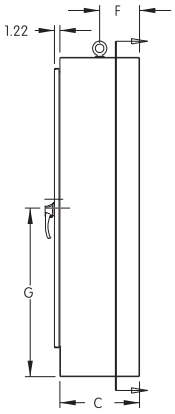
### Single Door Master Enclosure (Left side open)



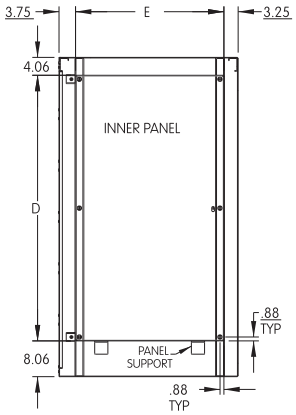

Open End




Front View

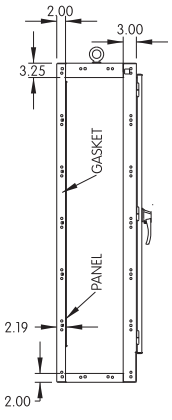



Closed End

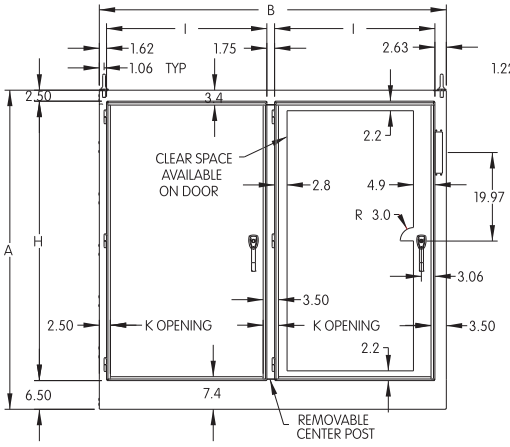



Rear View (Cross Section)

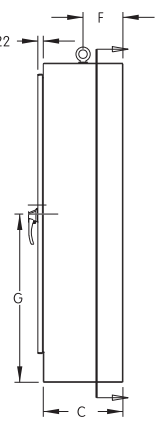
### Two Door Master Enclosure (Left side open)



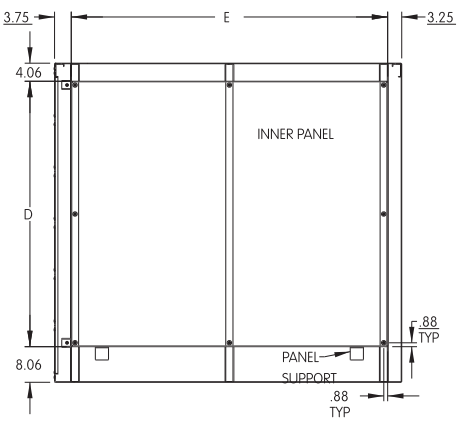

Open End



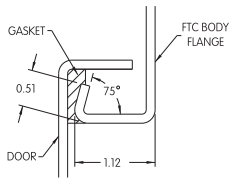

Front View




Closed End




Rear View (Cross Section)




### Master Enclosures

| Part No. | Overall Dimensions A | B | C | D | E | F | G | H | I | K | Ship Wt. lbs. | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **UHDM724118MFTC** | 72.13 | 40.75 | 18.13 | 60 | 33.75 | 9.06 | 38.06 | 63.13 | 36.5 | 34.75 | 506 | Single Door Disconnect |
| **UHDM844118MFTC** | 84.13 | 40.75 | 18.13 | 72 | 33.75 | 9.06 | 44.06 | 75.13 | 36.5 | 34.75 | 573 | Left side open |
| **UHDM844124MFTC** | 84.13 | 40.75 | 24.13 | 72 | 33.75 | 12.06 | 44.06 | 75.13 | 36.5 | 34.75 | 658 | |
| **UHDM727918MFTC** | 72.13 | 79.00 | 18.13 | 60 | 72.00 | 9.06 | 38.06 | 63.13 | 36.5 | 34.75 | 918 | Two Door Disconnect |
| **UHDM847918MFTC** | 84.13 | 79.00 | 18.13 | 72 | 72.00 | 9.06 | 44.06 | 75.13 | 36.5 | 34.75 | 1050 | Left side open |
| **UHDM847924MFTC** | 84.13 | 79.00 | 24.13 | 72 | 72.00 | 12.06 | 44.06 | 75.13 | 36.5 | 34.75 | 1150 | |

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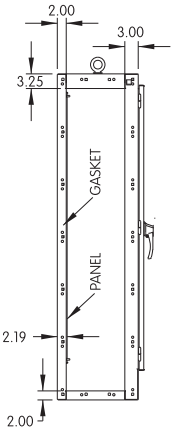
# UHDM Modular Disconnect Enclosures - NEMA 12

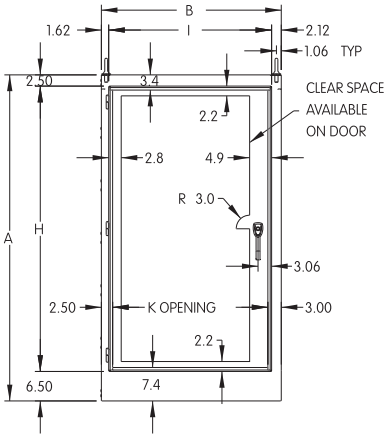
## ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D



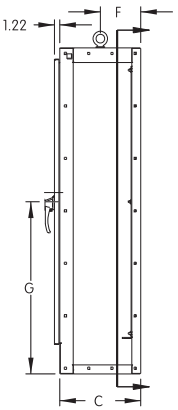
## Single Door Slave Enclosure (Both sides open)



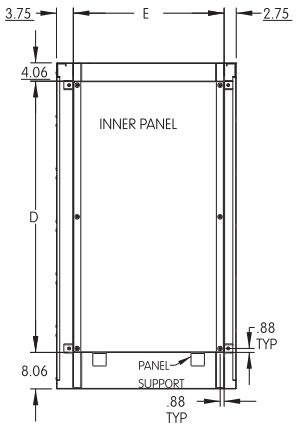

Open End




Front View

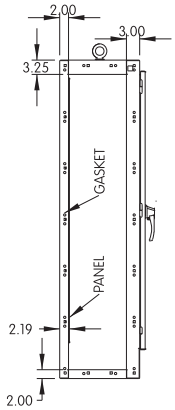



Open End

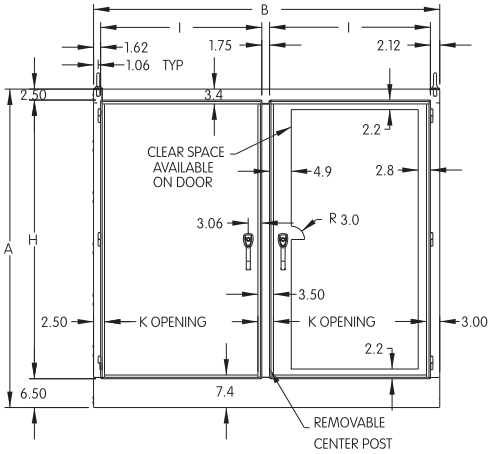



Rear View (Cross Section)

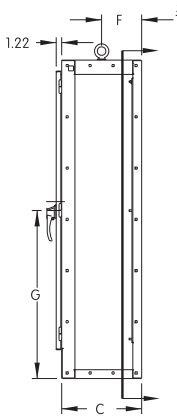
## Two Door Slave Enclosure (Both sides open)



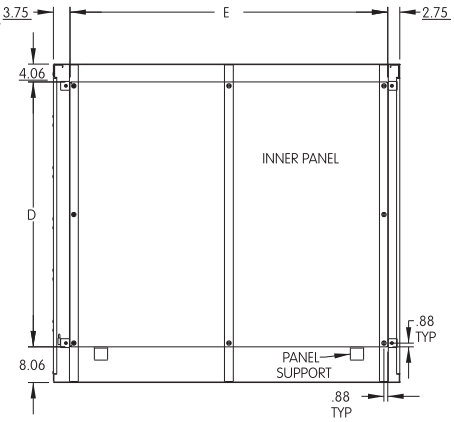

Open End



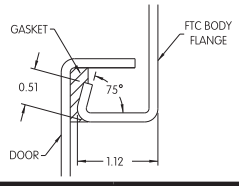

Front View




Open End




Rear View (Cross Section)




### Slave Enclosures

| Part No. | Overall Dimensions A | B | C | D | E | F | G | H | I | K | Ship Wt. lbs. | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **UHDM724118SFTC** | 72.13 | 40.25 | 18.13 | 60 | 33.75 | 9.06 | 38.06 | 63.13 | 36.5 | 34.75 | 473 | Single Door Slave |
| **UHDM844118SFTC** | 84.13 | 40.25 | 18.13 | 72 | 33.75 | 9.06 | 44.06 | 75.13 | 36.5 | 34.75 | 550 | Both sides open |
| **UHDM844124SFTC** | 84.13 | 40.25 | 24.13 | 72 | 33.75 | 12.06 | 44.06 | 75.13 | 36.5 | 34.75 | 570 | |
| **UHDM727818SFTC** | 72.13 | 78.50 | 18.13 | 60 | 72.00 | 9.06 | 38.06 | 63.13 | 36.5 | 34.75 | 888 | Two Door Slave |
| **UHDM847818SFTC** | 84.13 | 78.50 | 18.13 | 72 | 72.00 | 9.06 | 44.06 | 75.13 | 36.5 | 34.75 | 1010 | Both sides open |
| **UHDM847824SFTC** | 84.13 | 78.50 | 24.13 | 72 | 72.00 | 12.06 | 44.06 | 75.13 | 36.5 | 34.75 | 1060 | |

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



## Disconnect Ordering Information

### ABB Controls

**Disconnect switch:**
- Flange operated switch (fusible or non-fusible)
- Shaft:
  - 18.13" deep enclosures use DSFHS-17
  - 24.13" deep enclosures, platform must be used with shaft (not included)
- Handle: DSFHN-HS12

**Circuit breaker:**
- Circuit breaker: ABB
- Operating mechanism
- Shaft:
  - 18.13" deep enclosures use K7FHD-S17
  - 24.13" deep enclosures, platform must be used with shaft (not included)
- Handle mechanism: K7FHD-HS12

### Allen Bradley

**Bulletin 1494F flange mounted disconnect switch:**
- Disconnect switch
- Fuse block adaptor (if required)
- Line and load connectors (if required)

**1494D flange mounted circuit breaker operating mechanism:**
- Circuit breaker: C-H Westinghouse
- Flange mounted operating mechanism
- Slide mechanism

**Bulletin 1494V flange mounted disconnect switch:**
- Disconnect switch
- Operating handle
- Connecting rod/rods (long)
- Trailer fuse block kit (if required)
- Fuse clip kit (if required)
- Line and load connectors (if required)

**Bulletin 1494V flange mounted circuit breaker operating mechanism:**
- Circuit breaker: C-H Westinghouse
- Operating mechanism
- Operating handle
- Connecting rod (long)

### C-H Westinghouse

**Type C361 disconnect switch:**
- Disconnect switch with an operating mechanism
- Operating handle: C361H1 or C361H3
- In 24.13" deep enclosures, platform must be used with shaft (not included)

**Type C371 circuit breaker operating mechanism with a C-H Westinghouse circuit breaker:**
- Circuit breaker
- Operating mechanism
- Long operating rod (if required)
- Operating handle:
  - 150 amp - C371H1 or C371H3
  - 250 through 1200 amp - C371H5 or C371H7

**Flex-Shaft™ handle mechanism:**
- Circuit breaker
- Complete Flex-Shaft™ handle mechanism

### General Electric

**Disconnect switch:**
- Disconnect switch: Type QMR or QMW
- Fuse clip kit or no-fuse kit
- Flange handle: STDA1 or STDA2
- Variable depth operating mechanism
- Extended length drive rod (if required)

**Circuit breaker:**
- Circuit breaker
- Flange handle: STDA1 or STDA2
- Variable depth operating mechanism
- Extended length drive rod (if required)

**Circuit breaker with a Spectra-Flex™ cable operator:**
- Circuit breaker
- Flange mounted handle mechanism:
  - 150 to 600 amps - STDA1
  - SK1200 - STDA3
- Breaker mounted mechanism
- Operating cable

### I-T-E Siemens

**Disconnect switch:**
- Basic switch (right-hand)
- Fuse or no-fuse kit
- Flange mounted handle: FHOHS
- Switch operator
- Operating cable: FHOEC048

**Circuit breaker:**
- Circuit breaker
- Pressure wire connectors
- Flange mounted handle:
  - 100 to 600 - FHOH
  - 800 to 2000 - FHOHN
- Circuit breaker operator mechanism
- Operating cable:
  - 18.13" deep enclosures accept 36" or 48" cables;
  - 24.13" deep enclosures require a 48" cable
- These items are available from Siemens I-T-E as a complete mechanism with a 36" operating cable only Order items separately when using a 48" cable

### Square D

**Disconnect switch:**
- Disconnect switch with operating mechanism
- Universal handle mechanism: Type A-1
- Long operating rod (if required)

**Circuit breaker:**
- Circuit breaker
- Operating mechanism
- Universal handle mechanism: Type A-1
- Long operating rod (if required)

**Class 9422 Type T disconnect switch with a cable mechanism:**
- Disconnect switch with operating mechanism: Class 9422, Type T
- Handle mechanism: Class 9422, Type A-1
- Cable mechanism: Class 9422 CFT_O, 3, 5, or 10 foot

**Circuit breaker with a cable mechanism:**
- Circuit breaker: Square D
- Handle mechanism: Class 9422, type A-1
- Cable mechanism: Class 9422 CFT_O, 3, 5, or 10 foot


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# UHDM Modular Disconnect Enclosures - NEMA 12

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

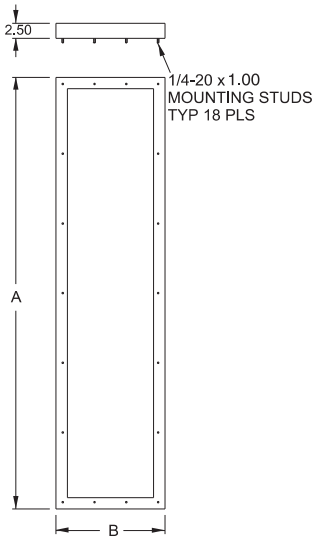


## Formed End Plates and Flat End Plates

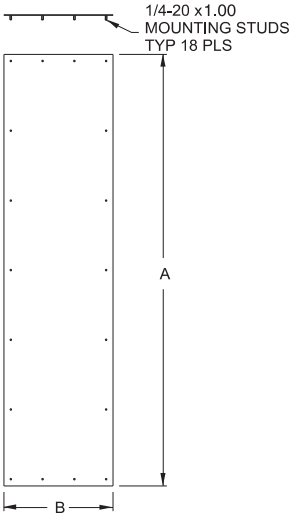
- Formed from 12 gauge steel.
- Used to enclose the open end(s) of one or more modular enclosures.
- Two types are available. No separate gasket kit is required.

## Flat Barrier Plate

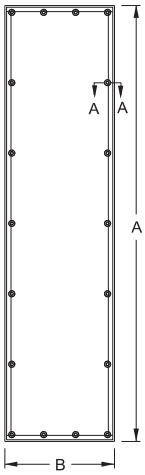
- Formed from 14 gauge steel.
- May be used to provide a barrier between modular enclosures. They are supplied complete with gasket.



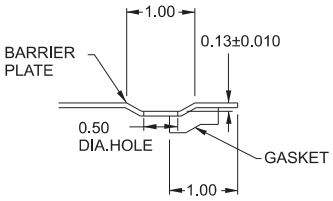

Formed End Plate




Flat End Plate



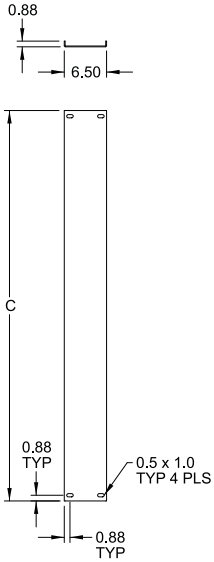

Flat Barrier Plate




Section A-A

## Panel Bridge Kit

- Formed from 10 gauge steel.
- May be used to join back panels together between modular enclosures to provide a continuous panel surface.




Panel Bridge Kit

### Accessories for Heavy Duty Modular NEMA 12 Enclosures for Flange Mounted Disconnects

| Part No. | A | B | C | Description |
|---|---|---|---|---|
| **UHDM7218ECA** | 71.86 | 17.87 | — | Formed End Plate with |
| **UHDM8418ECA** | 83.87 | 17.87 | — | Mounting Hardware |
| **UHDM8424ECA** | 83.87 | 23.87 | — | |
| **UHDM7218EPA** | 71.87 | 17.87 | — | Flat End Plate with |
| **UHDM8418EPA** | 83.87 | 17.87 | — | Mounting Hardware |
| **UHDM8424EPA** | 83.87 | 23.87 | — | |
| **UHDM7218BPA** | 71.87 | 17.87 | — | Flat Barrier Plate with |
| **UHDM8418BPA** | 83.87 | 17.87 | — | Mounting Hardware |
| **UHDM8424BPA** | 83.87 | 23.87 | — | |
| **UHDMFTC72BK** | — | — | 60 | Inner Panel Bridge Kit |
| **UHDMFTC84BK** | — | — | 72 | |

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# Universal Disconnect Enclosure - Operator Adaptor Kits

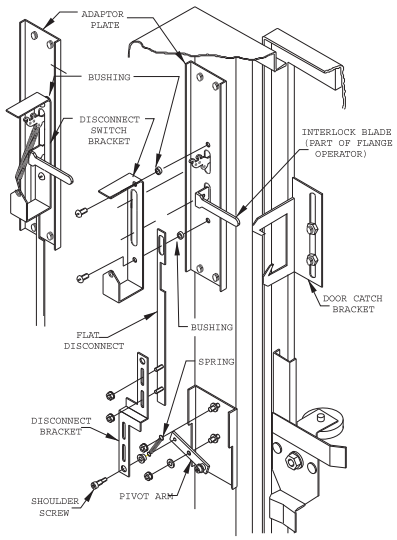
## ABB Controls, Allen Bradley, Cutler Hammer, General Electric, Siemens I-T-E Max-Flex™, Square D



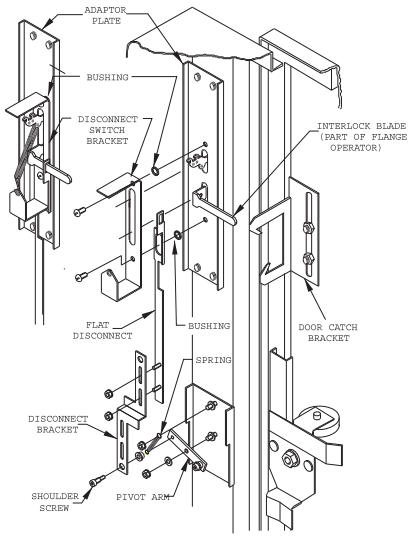
## Operator Adaptor Kits

- All Universal series enclosures require one adaptor kit (ordered separately) to adapt the type of disconnect and mechanism to be used.
- Each brand and type requires a different adaptor kit.
- Each kit contains an adaptor plate and master door interlocking mechanism.
- Fully detailed, illustrated instructions included.

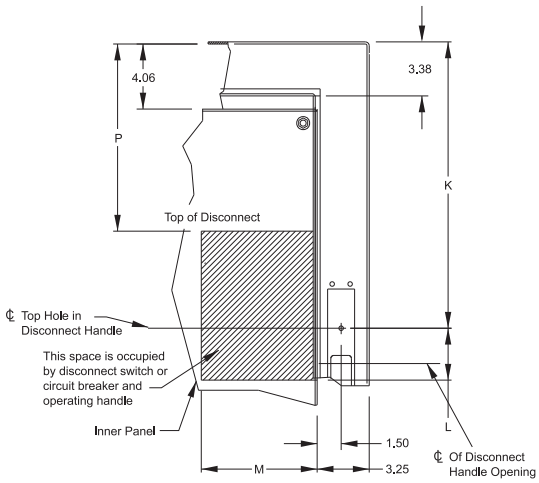
**Version Shown**
**Allen Bradley - 1494V H1**




**Version Shown**
**Allen Bradley - 1494V H2**




| Part No. | Operator Make | Type |
|---|---|---|
| **AKU** | **ABB Controls** operating handle | |
| | Disconnect Switch | DSFHN-HS12 |
| | Circuit Breaker | K7FHD-HS12 |
| | **Allen Bradley** variable depth operating handle | |
| | Disconnect Switch | |
| | 30-200 | 1494V H1 |
| | 400-600 | 1494V H2 |
| | Circuit breaker | 1494V H11 |
| | **Cutler Hammer** operating handle | |
| | Disconnect Switch | C361H1 or H3 |
| | Circuit Breaker | |
| | • 150A | C371H1 or H3 |
| | • 50 to 1200A | C371H5 or H7 |
| | Circuit Breaker C371 Flex-Shaft™ handle mechanism. | |
| | **General Electric** operating handle | |
| | Disconnect Switch | STDA1or STDA2 |
| | Circuit Breaker | STDA1or STDA2 |
| | Circuit Breaker Spectra-Flex™ cable operators | |
| | • 150 to 600A | STDA1 |
| | • K1200 | STDA3 |
| | **Siemens I-T-E Max-Flex™** operating handle | |
| | Disconnect Switch variable depth | FHOHS |
| | Circuit Breaker | |
| | • 125 to 600 | FHOH |
| | • 800 to 2000 | FHOHN |
| | **Square D** class 9422 operating mechanism | |
| | Disconnect Switch variable depth | 9422 type A1 |
| | Circuit Breaker variable depth | 9422 type A1 |
| | Disconnect Switch with cable mechanism | 9422 type A1 |
| | Circuit Breaker with cable mechanism | 9422 type A1 |
| **AK1494FD** | Allen Bradley | 1494F and D |
| **BPAK** | Blank Adapter Plate | |




## Space Occupied by Disconnects

Note: 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.**

Technical references and CAD downloads available at www.hammondmfg.com

All dimensions in inches unless specified otherwise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Canada: 519.822.2960 or 905.456.3770 USA: 716.630.7030
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