

## MODULAR DISCONNECT ENCLOSURE, TYPE 12



### INDUSTRY STANDARDS

UL 508A Listed; Type 12; File No. E61997  
cUL Listed per CSA C22.2 No. 94; Type 12; File No. E61997

NEMA Type 12  
CSA File No. 42186: Type 12  
IEC 60529, IP55

### APPLICATION

Modular disconnect enclosures provide configuration flexibility and versatility. One- and two-door models can be bolted together in any configuration. Slave enclosures can be added or removed as required.

### FEATURES

**One-Door Disconnect Enclosure** (left side open): Universal cutout on right flange provides mounting for most disconnect operators by using operator adapters. Right side is closed since disconnect operator cannot be obscured by a door. Master door is hinged on left. Defeater on master door requires a screwdriver to open. Master door activates mechanical interlock which prevents slave doors from being opened first. Doors may be closed in any order. Interlock is furnished.

**Two-Door Disconnect Enclosure** (left side open): Universal cutout on right flange provides mounting for most disconnect operators by using operator adapters. Right side is closed. Master door is right-hand door. Both doors hinged on left. Defeater on master door requires a screwdriver to open. Master door activates mechanical interlock which prevents slave doors from being opened first. Doors may be closed in any order. Removable centerpost permits easy panel installation. Interlock is furnished.

**One-Door Slave Enclosure** (both sides open): Door hinged on left. Interlock is furnished.

**Two-Door Slave Enclosure** (both sides open): Right-hand door hinged on right and left-hand door hinged on left. Removable centerpost permits easy panel installation. Interlock is furnished.

### SPECIFICATIONS

- .121-in. steel
- Seams are continuously welded and ground smooth
- Body stiffeners in larger enclosures for extra rigidity
- Body flange trough excludes liquids and contaminants
- Heavy-duty lifting eyes anchor into reinforced top
- Concealed, easy-to-remove hinges
- Heavy-duty 3-point latching mechanism operated by padlocking handle on all doors
- Rollers on ends of latch rods for easier door closing
- Data pocket is high-impact thermoplastic
- Oil-resistant door gasket
- Panel supports
- Removable .127-in. thick steel panels mount on collar studs
- Bonding provision on door
- Mechanical interlock standard on each enclosure; parts required to connect interlock system between adjacent enclosures are provided
- Interlock rods are furnished with enclosures; gasket kits and end plate purchased separately
- Models available with panel include painted panel; conductive panel sold separately

### FINISH

ANSI 61 gray finish inside and outside over pretreated surfaces. Panels have white or conductive finish. Flat end plates are ANSI 61 gray inside and outside.

### ACCESSORIES

*See also Accessories.*

Blank Adapter Plates, Mild Steel

End Plates

PANELITE™ Enclosure Lights Overview

Operator Adapters for Universal Cutouts

Panels for Type 3R, 4, 4X, 12 and 13 Enclosures

Center Panel Supports

### MODIFICATION AND CUSTOMIZATION

Hoffman excels at modifying and customizing products to your specifications. Contact your local Hoffman sales office or distributor for complete information.

**BULLETIN: A34**

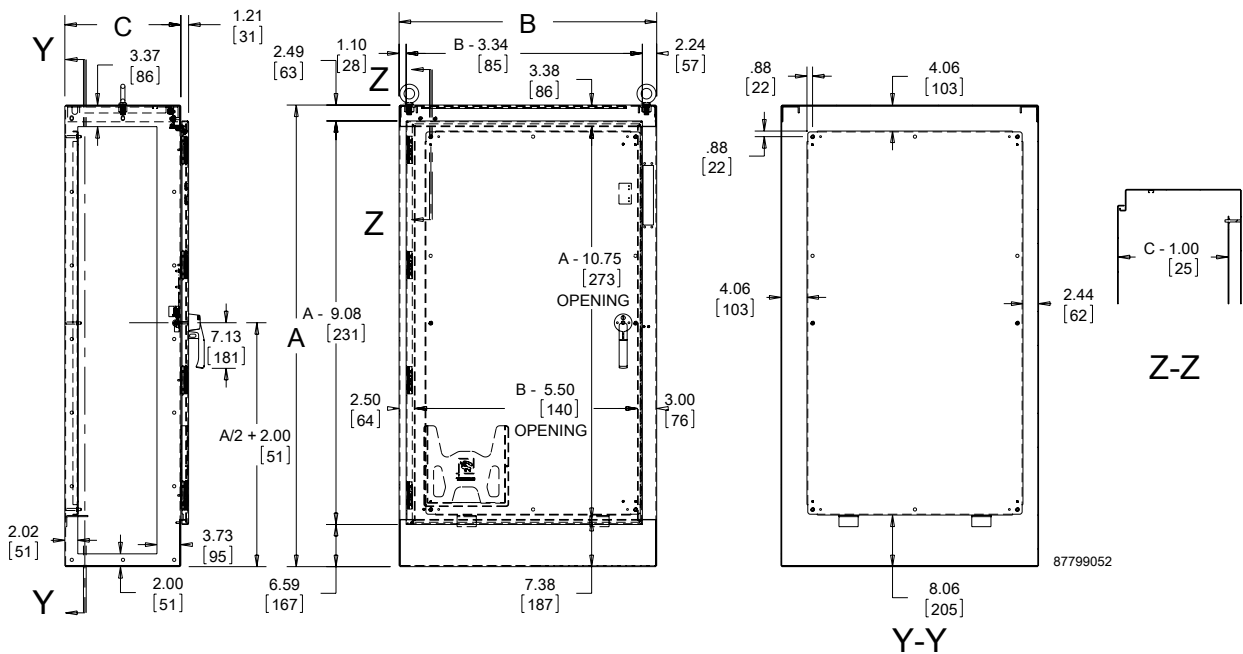
Standard Product **Master Modular Type 12 Enclosures for Flange-Mount Disconnects, One-Door (left side open)**

| Catalog Number   | AxBxC in./mm                               | With or Without Panel | Panel   | Conductive Panel | Panel Size D x E in./mm     |
|------------------|--------------------------------------------|-----------------------|---------|------------------|-----------------------------|
| AMOD72X4018FTC   | 72.12 x 40.25 x 18.12<br>1832 x 1020 x 460 | With                  | A72PM40 | A72PM40G         | 60.00 x 33.75<br>1524 x 857 |
| AMOD72X4018FTCLP | 72.12 x 40.25 x 18.12<br>1832 x 1022 x 460 | Without               | —       | —                | —                           |
| AMOD84X4018FTC   | 84.12 x 40.25 x 18.12<br>2137 x 1020 x 460 | With                  | A84PM40 | A84PM40G         | 72.00 x 33.75<br>1829 x 857 |
| AMOD84X4018FTCLP | 84.12 x 40.25 x 18.12<br>2137 x 1022 x 460 | Without               | —       | —                | —                           |
| AMOD84X4024FTC   | 84.12 x 40.25 x 24.12<br>2137 x 1020 x 613 | With                  | A84PM40 | A84PM40G         | 72.00 x 33.75<br>1829 x 857 |
| AMOD84X4024FTCLP | 84.12 x 40.25 x 24.12<br>2137 x 1022 x 613 | Without               | —       | —                | —                           |

All 24, 12-in. (613-mm) and deeper enclosures using short connecting rods in the following models require a Hoffman platform assembly, catalog number ADSCPA, purchased separately. • ABB Controls flange-operated devices • Cutler-Hammer C361 devices • Cutler-Hammer C371 mechanisms which use C371E, F, G, K operating mechanism • General Electric Type TDA devices (see next paragraph for option) • Square D Class 9422 devices (see next paragraph for option)

The platform assembly can be omitted if long connecting rods are ordered in place of short connecting rods. • For Cutler-Hammer operating mechanisms C371E and C371F order catalog number C371CS1 connecting rod. For C371G and C371K order catalog number C371CS2. • For General Electric devices, order catalog number TDSR extended length drive rod • For Square D devices, order catalog number 9422-R2 extra long operating rod(s). Some devices require two rods. Consult factory for space occupied on panel when platform is used.

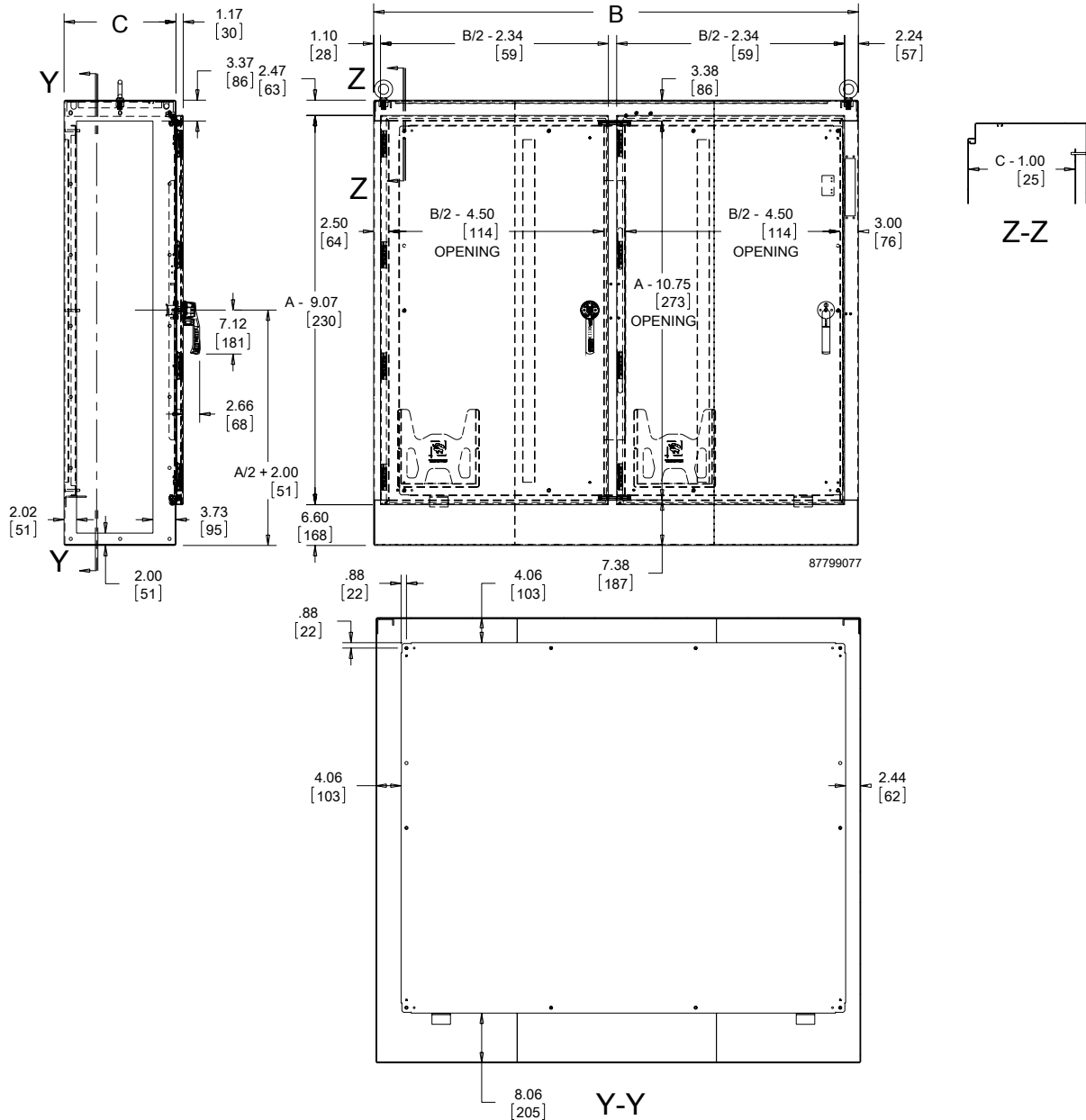
Enclosures with panel include a painted panel. Order conductive panels separately.



Standard Product **Master Modular Type 12 Enclosures for Flange-Mount Disconnects, Two-Door (left side open)**

| Catalog Number   | AxBxC in./mm                               | With or Without Panel | Panel   | Conductive Panel | Panel Size D x E in./mm      |
|------------------|--------------------------------------------|-----------------------|---------|------------------|------------------------------|
| AMOD72X7818FTC   | 72.12 x 78.50 x 18.12<br>1832 x 1994 x 460 | With                  | A72PM78 | A72PM78G         | 60.00 x 72.00<br>1524 x 1829 |
| AMOD72X7818FTCLP | 72.12 x 78.50 x 18.12<br>1832 x 1994 x 460 | Without               | —       | —                | —                            |
| AMOD84X7818FTC   | 84.12 x 78.50 x 18.12<br>2137 x 1994 x 460 | With                  | A84PM78 | A84PM78G         | 72.00 x 72.00<br>1829 x 1829 |
| AMOD84X7818FTCLP | 84.12 x 78.50 x 18.12<br>2137 x 1994 x 460 | Without               | —       | —                | —                            |
| AMOD84X7824FTC   | 84.12 x 78.50 x 24.12<br>2137 x 1994 x 613 | With                  | A84PM78 | A84PM78G         | 72.00 x 72.00<br>1829 x 1829 |
| AMOD84X7824FTCLP | 84.12 x 78.50 x 24.12<br>2137 x 1994 x 613 | Without               | —       | —                | —                            |

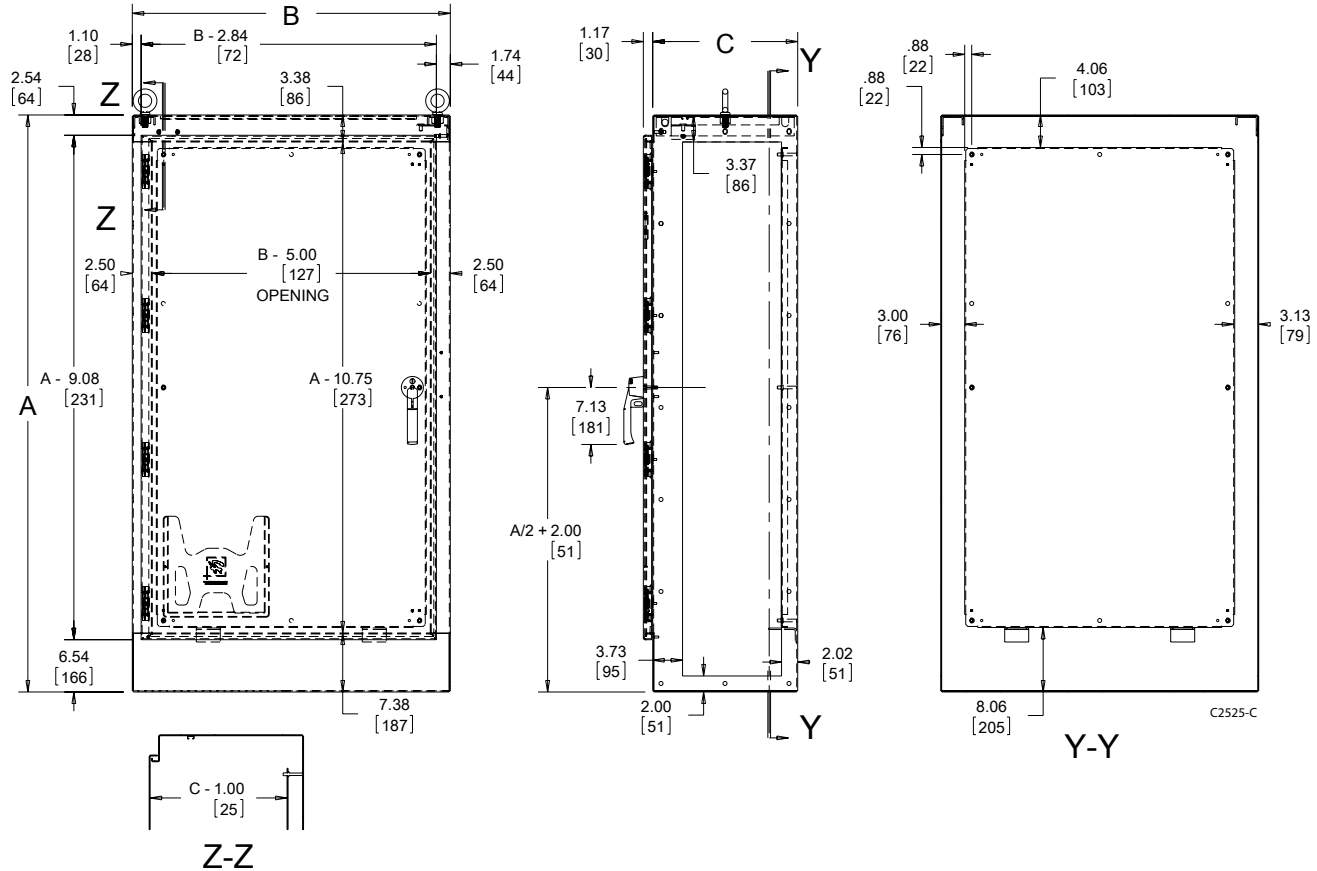
Enclosures with panel include a painted panel. Order conductive panels separately.



Standard Product **Slave Modular Type 12 Enclosures for Flange-Mount Disconnects, One-Door (both sides open)**

| Catalog Number  | AxBxC in./mm                               | With or Without Panel | Panel   | Conductive Panel | Panel Size D x E in./mm     |
|-----------------|--------------------------------------------|-----------------------|---------|------------------|-----------------------------|
| AMOD723918FTC   | 72.12 x 39.75 x 18.12<br>1832 x 1010 x 460 | With                  | A72PM40 | A72PM40G         | 60.00 x 33.75<br>1524 x 857 |
| AMOD723918FTCLP | 72.12 x 39.75 x 18.12<br>1832 x 1010 x 460 | Without               | —       | —                | —                           |
| AMOD843918FTC   | 84.12 x 39.75 x 18.12<br>2137 x 1010 x 460 | With                  | A84PM40 | A84PM40G         | 72.00 x 33.75<br>1829 x 857 |
| AMOD843918FTCLP | 84.12 x 39.75 x 18.12<br>2137 x 1010 x 460 | Without               | —       | —                | —                           |
| AMOD843924FTC   | 84.12 x 39.75 x 24.12<br>2137 x 1010 x 613 | With                  | A84PM40 | A84PM40G         | 72.00 x 33.75<br>1829 x 857 |
| AMOD843924FTCLP | 84.12 x 39.75 x 24.12<br>2137 x 1010 x 613 | Without               | —       | —                | —                           |

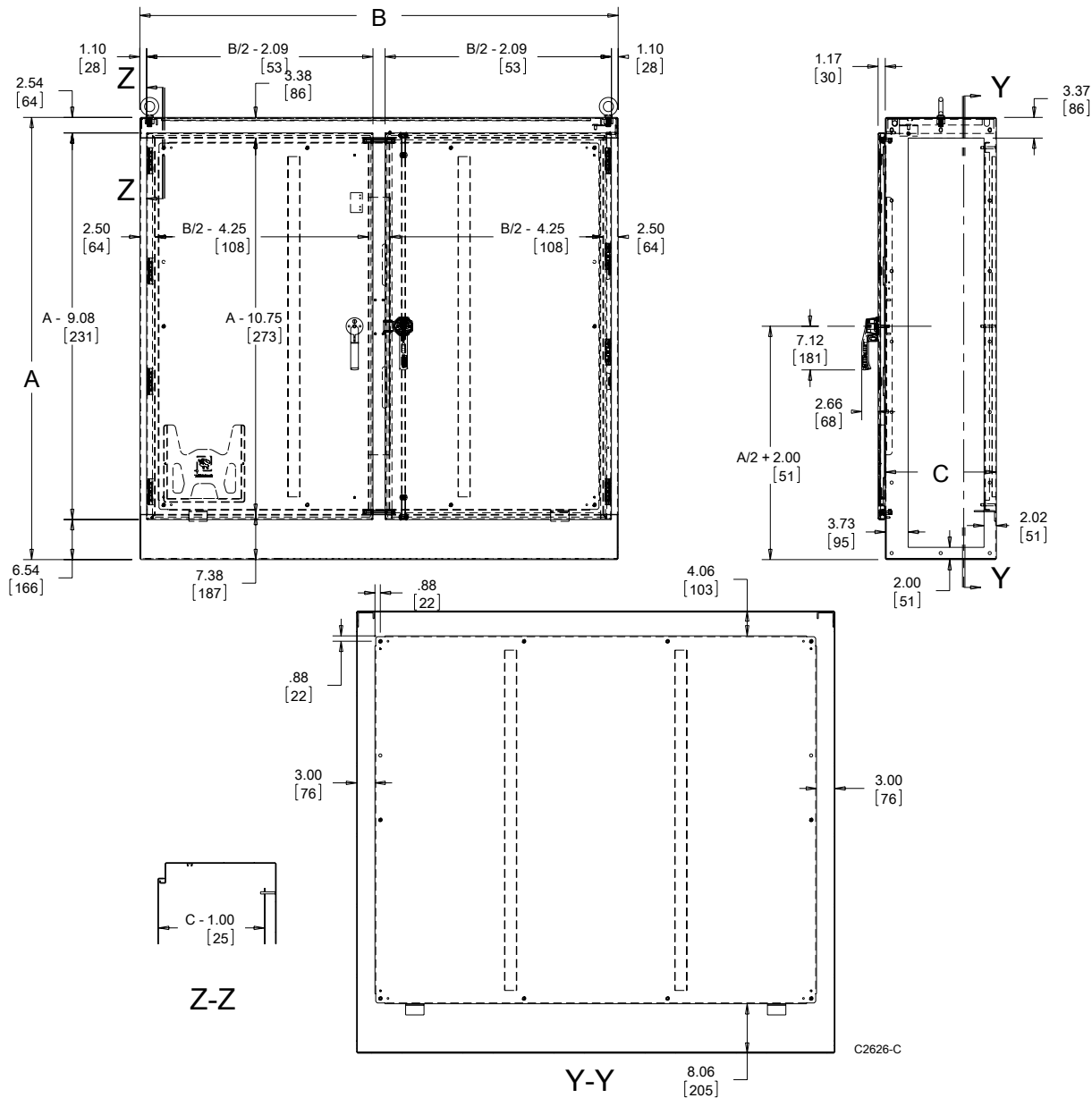
Enclosures with panel include a painted panel. Order conductive panels separately.



Standard Product **Slave Modular Type 12 Enclosures for Flange-Mount Disconnects, Two-Door (both sides open)**

| Catalog Number  | AxBxC in./mm                               | With or Without Panel | Panel   | Conductive Panel | Panel Size D x E in./mm      |
|-----------------|--------------------------------------------|-----------------------|---------|------------------|------------------------------|
| AMOD727718FTC   | 72.12 x 78.00 x 18.12<br>1832 x 1981 x 460 | With                  | A72PM78 | A72PM78G         | 60.00 x 72.00<br>1524 x 1829 |
| AMOD727718FTCLP | 72.12 x 78.00 x 18.12<br>1832 x 1981 x 460 | Without               | —       | —                | —                            |
| AMOD847718FTC   | 84.12 x 78.00 x 18.12<br>2137 x 1981 x 460 | With                  | A84PM78 | A84PM78G         | 72.00 x 72.00<br>1829 x 1829 |
| AMOD847718FTCLP | 84.12 x 78.00 x 18.12<br>2137 x 1981 x 460 | Without               | —       | —                | —                            |
| AMOD847724FTC   | 84.12 x 78.00 x 24.12<br>2137 x 1981 x 613 | With                  | A84PM78 | A84PM78G         | 72.00 x 72.00<br>1829 x 1829 |
| AMOD847724FTCLP | 84.12 x 78.00 x 24.12<br>2137 x 1981 x 613 | Without               | —       | —                | —                            |

Enclosures with panel include a painted panel. Order conductive panels separately.



## DISCONNECT MOUNTING SPACE

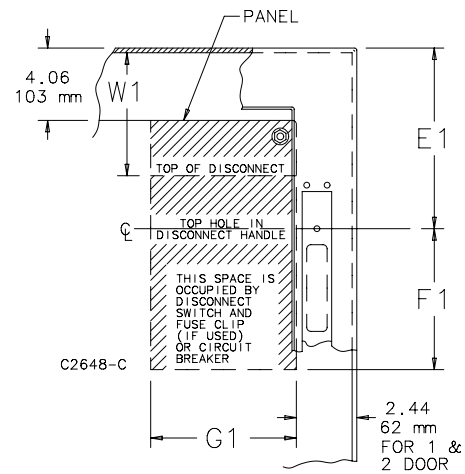
Disconnects are located by dimension E1. Wiring space W1 is available when disconnect is installed in the enclosure. See Technical Information section for E1 Spacing by Enclosure Height for various disconnect switch manufacturers.

W1 = Wiring Space.

See *Technical Information* section for wire bend space.

Refer to **NATIONAL ELECTRICAL CODE®, 2005** article 430-10(b) for wiring space required for line side conductors to be connected to disconnect. **Verify your application to determine whether wiring space is adequate.**

Consult *Space Occupied by Disconnect* drawing to determine whether the disconnect device you are using will fit the enclosure size you have selected.



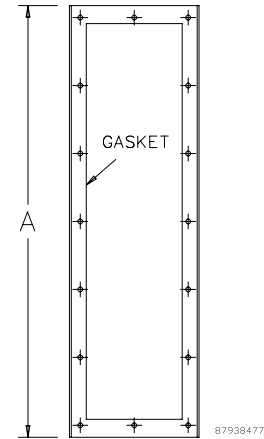
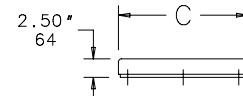
Consult disconnect manufacturer or see Disconnect Ordering Information at [hoffmanonline.com](http://hoffmanonline.com) under Technical Resources for F1 and G1 dimensions of various brands of disconnects.

## END PLATES

Used to seal open end(s) of an assembly of modular enclosures. The 2.50-in. deep End Plates allow extra wiring space. Gasket and mounting bolts are included.

### BULLETIN: A34Y

| Catalog Number | AxC in./mm                  |
|----------------|-----------------------------|
| AMOD72EPT      | 72.12 x 18.12<br>1832 x 460 |
| AMOD84EPT      | 84.12 x 18.12<br>2137 x 460 |
| AMOD8424EPT    | 84.12 x 24.12<br>2137 x 613 |



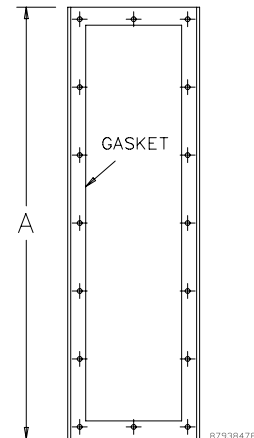
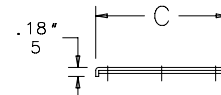
End Plate

## FLAT END PLATES

Used to seal open end(s) of an assembly of modular enclosures. The Flat End Plate provides a low profile cover for the open end of a modular enclosure. Studs welded to the end plate eliminate bolt holes. Gasket and mounting hardware are furnished.

### BULLETIN: A34Y

| Catalog Number | AxC in./mm                  |
|----------------|-----------------------------|
| AMOD7218FEP    | 72.12 x 18.12<br>1832 x 460 |
| AMOD8418FEP    | 84.12 x 18.12<br>2137 x 460 |
| AMOD8424FEP    | 84.12 x 24.12<br>2137 x 613 |



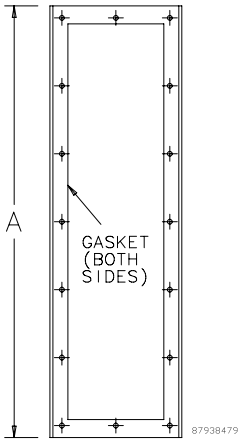
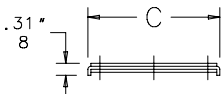
Flat End Plate

**BARRIERS**

Used to provide a barrier between individual enclosures in an assembly of modular enclosures. The flat plate is gasketed on both sides and inserted between two modular enclosures. Bolts and instructions are included.

**BULLETIN: A34Y**

| Catalog Number | AxC in./mm                  |
|----------------|-----------------------------|
| AMOD7218BAP    | 72.12 x 18.12<br>1832 x 460 |
| AMOD8418BAP    | 84.12 x 18.12<br>2137 x 460 |
| AMOD8424BAP    | 84.12 x 24.12<br>2137 x 613 |



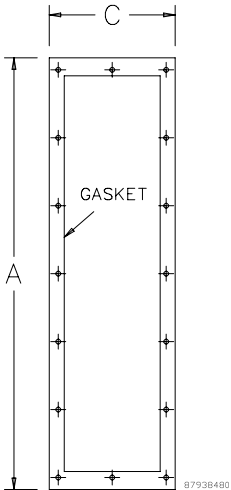
Barrier

**GASKET KIT**

Used to maintain enclosure rating when modular enclosures are joined together; includes a one-piece gasket, bolts and instructions.

**BULLETIN: A34Y**

| Catalog Number | AxC in./mm                  |
|----------------|-----------------------------|
| AMOD7218FGK    | 72.12 x 18.12<br>1832 x 460 |
| AMOD8418FGK    | 84.12 x 18.12<br>2137 x 460 |
| AMOD8424FGK    | 84.12 x 24.12<br>2137 x 613 |



Gasket Kit



## UNIVERSAL CUTOUT OVERVIEW



### APPLICATION

The universal cutout is used in large freestand and floorstand enclosures, i.e., Bulletins A21(S), A28(S) and A34. Operator Adapter Kits are required in order to install the various manufacturers' hardware. Note that 400 A (or greater) disconnect switches and 600 A (or greater) circuit breakers need to use the "Large" or "High Amp" cutout, which is provided in the A21ABVA kit for Allen-Bradley variable-depth disconnect switches or the A21ITE kit for Siemens (and select other manufacturers) flex-cable devices. The "Large" or "High Amp" cutout accepts the larger operating handle whose mounting hole centers are 6.500-in. apart.

Universal cutouts are designed to house the following:

#### Allen-Bradley

- Bulletin 1494F flange-mount disconnect switches and Bulletin 1494D flange-mount operators for circuit breakers
- Bulletin 1494V disconnect switches with flange-mount variable-depth operating mechanisms and Bulletin 1494V flange-mount variable-depth operating mechanisms for circuit breakers

- Bulletin 140U flexible cable operating mechanisms for 140U molded case circuit breakers
- Bulletin 140G flexible cable and variable depth flange-mount molded case circuit breakers
- Bulletin 1494C cable-operated disconnect switches with flange-mount handles
- Bulletin 194RC cable-operated flange-mount handles for use with the NFPA 79 compliant 194R IEC rotary disconnect switches

**ABB Controls** flange-mount variable-depth operating mechanisms for disconnect switches and circuit breakers. Also the cable version for circuit breakers.

**Eaton Cutler-Hammer** Type C361 disconnect switches and operator mechanisms, and Type C371 circuit breakers and circuit breaker operating mechanisms. Also Type SM safety handle mechanisms and 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 SPECTRAFLEX™ cable operators for circuit breakers.

**Siemens ITE MAX FLEX®** flange-mount variable-depth operating handles for disconnect switches and circuit breakers.

**Schneider Square D®** disconnect switches and circuit breakers used with Class 9422 flange-mount variable-depth operating mechanisms or cable mechanisms.

*These enclosures will NOT receive Class 9422 bracket-mount disconnect devices, Class 9422TG1 or TG2 devices.*

### Disconnect Enclosures with Universal Cutout

Universal cutout requires an operator adapter for the brand and type of disconnect being used. See Disconnect Enclosure Accessories to select the operator adapter.

### ORDERING

The disconnect switch, operating handle and operating mechanism must be ordered separately. See Technical Information in the Hoffman Specifier's Guide for wire bend space available when various manufacturers' disconnect switches are installed, or Disconnect Ordering Information at [hoffmanonline.com](http://hoffmanonline.com) for disconnect ordering guidelines and wire bend space available. Check the enclosure dimension drawings to verify the chosen disconnect switch will fit in the enclosure.

**All 24.12-in. (613-mm) and deeper enclosures** using short connecting rods by the following manufacturers require a Hoffman platform assembly, catalog number ADSCPA, purchased separately.

- ABB Controls flange-operated devices
- Eaton Cutler-Hammer C361 devices
- Eaton Cutler-Hammer C371 mechanisms which use C371E, F, G, K operating mechanism (see Disconnect Enclosure Accessories)
- General Electric Type TDA devices (see Disconnect Enclosure Accessories)
- Schneider Square D® Class 9422 devices (see Disconnect Enclosure Accessories)

The platform assembly can be omitted if long connecting rods are ordered in place of short connecting rods.

- For Eaton Cutler-Hammer operating mechanisms C371E and C371F order catalog number C371CS1 connecting rod. For C371G and C371K order catalog number C371CS2 connecting rod.
- For General Electric devices, order catalog number TDSR extended length drive rod
- For Schneider Square D devices, order catalog number 9422-R2 extra long operating rod(s). Some devices require two rods.

Consult factory for space occupied on panel when platform is used.

Notes