



Productivity  
Through  
Protection™

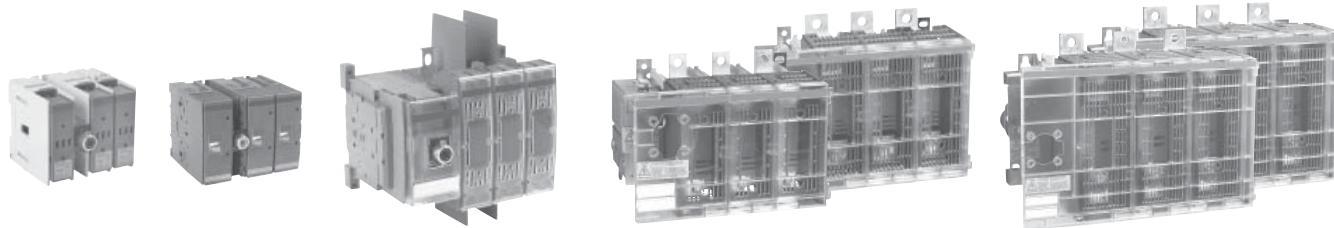
## Disconnect Switches



|                                                       |
|-------------------------------------------------------|
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|                    |
|--------------------|
|                    |
| Fusible            |
|                    |
| Non-Fused          |
|                    |
| Enclosed Fused     |
|                    |
| Enclosed Non-Fused |
|                    |

**CFD30CC3 – FD800L3**



CFD30AJ3

CFD60J3

CFD100J3

FD400J3

FD600J3

FD800L3

| Catalog number                                                       | 3 pole                     | CFD30ACC3                       | CFD30AJ3                        | CFD60J3                         | CFD100J3                               | CFD200J03                              | FD400J3                                | FD600J3                                | FD800L3                                |
|----------------------------------------------------------------------|----------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|
| <b>General purpose amp rating</b>                                    | A                          | 30                              | 30                              | 60                              | 100                                    | 200                                    | 400                                    | 600                                    | 800                                    |
| <b>Approvals<sup>①</sup></b>                                         | 2 pole<br>3 pole<br>4 pole | N/A<br>UL98 & IEC<br>UL98 & IEC | N/A<br>UL98 & IEC<br>UL98 & IEC | N/A<br>UL98 & IEC<br>UL98 & IEC | UL98 & IEC<br>UL98 & IEC<br>UL98 & IEC | UL98 & IEC<br>UL98 & IEC<br>UL98 & IEC | UL98 & IEC<br>UL98 & IEC<br>UL98 & IEC | UL98 & IEC<br>UL98 & IEC<br>UL98 & IEC | UL98 & IEC<br>UL98 & IEC<br>UL98 & IEC |
| <b>Technical ratings (UL, cULus)</b>                                 |                            |                                 |                                 |                                 |                                        |                                        |                                        |                                        |                                        |
| Max operating voltage                                                | V                          | 600                             | 600                             | 600                             | 600                                    | 600                                    | 600                                    | 600                                    | 600                                    |
| Max horsepower rating                                                |                            |                                 |                                 |                                 |                                        |                                        |                                        |                                        |                                        |
| Three phase                                                          |                            |                                 |                                 |                                 |                                        |                                        |                                        |                                        |                                        |
| 200 – 208V                                                           | HP                         | 5/7.5                           | 5/7.5                           | 15                              | 25                                     | 50                                     | 100/125                                | 150                                    | 200                                    |
| 240V                                                                 | HP                         | 7.5                             | 7.5                             | 15                              | 30                                     | 60                                     | 125                                    | 200                                    | 250                                    |
| 480V                                                                 | HP                         | 15                              | 15                              | 30                              | 60                                     | 125                                    | 250                                    | 400                                    | 500                                    |
| 600V                                                                 | HP                         | 20                              | 20                              | 50                              | 75                                     | 150                                    | 350                                    | 500                                    | 600                                    |
| Single phase                                                         |                            |                                 |                                 |                                 |                                        |                                        |                                        |                                        |                                        |
| 120V                                                                 | HP                         | 2                               | 2                               | —                               | —                                      | —                                      | —                                      | —                                      | —                                      |
| 240V                                                                 | HP                         | 3                               | 3                               | —                               | —                                      | —                                      | —                                      | —                                      | —                                      |
| UL fuse class                                                        |                            | CC                              | J                               | J                               | J                                      | J                                      | J,T                                    | J,T                                    | L                                      |
| <b>Technical ratings (IEC)</b>                                       |                            |                                 |                                 |                                 |                                        |                                        |                                        |                                        |                                        |
| Rated insulation and operational voltage, AC20 and DC20 <sup>②</sup> |                            | 1000                            | 1000                            | 750                             | 750                                    | 1000                                   | 1000                                   | 1000                                   | 1000                                   |
| Rated thermal current, I <sub>th</sub>                               |                            |                                 |                                 |                                 |                                        |                                        |                                        |                                        |                                        |
| AC 20/DC 20 open                                                     | A                          | 32                              | 32                              | 63                              | 125                                    | 200                                    | 400                                    | 630                                    | 800                                    |
| AC 20/DC 20 enclosed                                                 | A                          | 32                              | 32                              | 63                              | 125                                    | 200                                    | 400                                    | 600                                    | 720                                    |
| AC 21A 500V                                                          | A                          | 32                              | 32                              | 63                              | 125                                    | 200                                    | 400                                    | 630                                    | 800                                    |
| 690V                                                                 | A                          | 32                              | 32                              | 63                              | 125                                    | 200                                    | 400                                    | 630                                    | 800                                    |
| Rated operational power AC23                                         |                            |                                 |                                 |                                 |                                        |                                        |                                        |                                        |                                        |
| 400/415V                                                             | kW                         | 14/15                           | 14/15                           | 30                              | 80/90                                  | 110                                    | 210/230                                | 315/340                                | 350/380                                |
| 690V                                                                 | kW                         | 25                              | 25                              | 60                              | 132                                    | 200                                    | 330                                    | 540                                    | 600                                    |
| <b>Physical characteristics</b>                                      |                            |                                 |                                 |                                 |                                        |                                        |                                        |                                        |                                        |
| Weight                                                               | 3 pole switch<br>4 pole    | lb<br>lb                        | 1.54<br>1.98                    | 1.54<br>1.98                    | 2.86<br>3.52                           | 3.30<br>3.96                           | 5.9<br>7.5                             | 17.2<br>19.4                           | 37.48<br>46.3                          |
| Dimension                                                            | 3 pole                     | H in<br>W in<br>D in            | 3.82<br>4.17<br>4.21            | 3.82<br>4.17<br>4.21            | 3.94<br>5.63<br>5.04                   | 5.66<br>7.06<br>5.09                   | 6.5<br>7.1<br>5.2                      | 7.87<br>11.22<br>8.11                  | 11.42<br>14.69<br>9.21                 |
| <b>Accessories</b>                                                   |                            |                                 |                                 |                                 |                                        |                                        |                                        |                                        |                                        |
| Double break contacts                                                |                            | S                               | S                               | S                               | S                                      | S                                      | S                                      | S                                      | S                                      |
| Fuse cover                                                           |                            | S                               | S                               | S                               | •                                      | S                                      | S                                      | S                                      | S                                      |
| Terminal lug kit                                                     |                            | Integral                        | Integral                        | Integral                        | BDTL24                                 | CDTL200                                | BDTL26                                 | BDTL27                                 | BDTL27                                 |
| Terminal shroud                                                      |                            | Not required                    | Not required                    | Not required                    | •                                      | •                                      | •                                      | •                                      | •                                      |
| Auxiliary contact                                                    |                            | •                               | •                               | •                               | •                                      | •                                      | •                                      | •                                      | •                                      |
| Handle UL/NEMA type                                                  |                            |                                 |                                 |                                 |                                        |                                        |                                        |                                        |                                        |
| Type 1, 3R, 12                                                       |                            | •                               | •                               | •                               | •                                      | •                                      | •                                      | •                                      | •                                      |
| Type 1, 3R, 4, 4X, 12                                                |                            | •                               | •                               | •                               | •                                      | •                                      | •                                      | •                                      | •                                      |
| Conversion kit                                                       |                            |                                 |                                 |                                 |                                        |                                        |                                        |                                        |                                        |
| 6 pole                                                               |                            | •                               | •                               | •                               | •                                      | •                                      | •                                      | •                                      | •                                      |
| Electrical interlock                                                 |                            | —                               | —                               | —                               | —                                      | •                                      | •                                      | •                                      | •                                      |

S = Standard  
• = Available  
— = Not available

**UL Listed, cULus approved, IEC rated, CE marked**

① UL Listed switches are also cULus approved.  
② 1000V IEC 408

# 30A Fusible Disconnect Switches Base & DIN Rail Mounted



## UL Fuse Class J, CC

For a complete assembly,  
please select one of each:

- 1 switch
- 1 handle
- 1 shaft



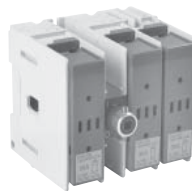
CFD30AJ3



BDS\_



CDH3S



CFD30AJ3



CBDH3S, 5S



CBDH4S, 6S



BDS\_

### 30 Amp switches, 600V

| UL<br>general<br>purpose<br>amp rating | UL<br>Fuse<br>type<br>600V | Maximum horsepower rating |      |      |      |      | Terminal lugs |              | Catalog<br>number |
|----------------------------------------|----------------------------|---------------------------|------|------|------|------|---------------|--------------|-------------------|
|                                        |                            | Three phase               |      |      |      |      | Wire<br>size  | Wire<br>type |                   |
|                                        |                            | 200V                      | 208V | 240V | 480V | 600V |               |              |                   |
| 3 pole                                 |                            |                           |      |      |      |      |               |              |                   |
| 30                                     | J                          | 5                         | 7.5  | 7.5  | 15   | 20   | #18 – 8       | Cu           | CFD30AJ3          |
| 30①                                    | CC                         | 5                         | 7.5  | 7.5  | 15   | 20   | #18 – 8       | Cu           | CFD30ACC3         |
| 4 pole                                 |                            |                           |      |      |      |      |               |              |                   |
| 30                                     | J                          | 5                         | 7.5  | 7.5  | 15   | 20   | #18 – 8       | Cu           | CFD30AJ4          |
| 30①                                    | CC                         | 5                         | 7.5  | 7.5  | 15   | 20   | #18 – 8       | Cu           | CFD30ACC4         |

**Selector handles** — for use with shafts ☐ .24 x .24" ( ☐ 6 x 6 mm)

| NEMA<br>type                            | IEC<br>type | Color      | Defeatable | Padlockable | Weight<br>(lbs.) | Catalog<br>number |
|-----------------------------------------|-------------|------------|------------|-------------|------------------|-------------------|
| <b>All marked both O/I &amp; Off/On</b> |             |            |            |             |                  |                   |
| 1,3R,12                                 | IP65        | Black      | —          | Yes         | 0.16             | CBDH3S            |
| 1,3R,12                                 | IP65        | Red/Yellow | —          | Yes         | 0.16             | CBDH4S            |
| 1,3R,12                                 | IP65        | Black      | Yes        | Yes         | 0.16             | CBDH5S            |
| 1,3R,12                                 | IP65        | Red/Yellow | Yes        | Yes         | 0.16             | CBDH6S            |

**Shafts** — for use with CBDH selector handles ☐ .24 x .24" ( ☐ 6 x 6 mm)

| Shaft length<br>(inches/mm) | Mounting depth<br>(in inches) | Weight<br>(lbs.) | Catalog<br>number |
|-----------------------------|-------------------------------|------------------|-------------------|
| 3.3/85                      | 5.5 – 5.7                     | 0.04             | BDS85S            |
| 4.1/105                     | 5.5 – 6.5                     | 0.04             | BDS105S           |
| 4.7/120                     | 5.5 – 7.1                     | 0.05             | BDS120S           |
| 5.1/130                     | 5.5 – 7.5                     | 0.05             | BDS130S           |
| 7.1/180                     | 6.3 – 9.4                     | 0.08             | BDS180S           |
| 9.8/250                     | 9.1 – 12.2                    | 0.10             | BDS250S           |
| 13.0/330                    | 12.2 – 15.4                   | 0.14             | BDS330S           |

① Rejection style fuses only.

Fusible

Non-Fused

Enclosed Fused

Enclosed Non-Fused

For a complete assembly,  
please select one of each:

- 1 switch
- 1 handle
- 1 shaft



CDF30AJ3



BDS\_\_



BDH59

**Pistol handles** — for use with shafts ☐ .24 x .24" ( ☐ 6 x 6 mm)

| NEMA type    | IEC type | Color      | Marking      | Length inches/mm | Defeatable | Padlockable | Weight (lbs.) | Catalog number |
|--------------|----------|------------|--------------|------------------|------------|-------------|---------------|----------------|
| 1,3R,12      | IP65     | Black      | O/I & Off/On | 1.8/45           | Yes        | Yes         | 0.28          | BDH56          |
| 1,3R,12      | IP65     | Red/Yellow | O/I & Off/On | 1.8/45           | Yes        | Yes         | 0.28          | BDH57          |
| 1,3R,12      | IP65     | Black      | O/I & Off/On | 2.6/65           | Yes        | Yes         | 0.29          | BDH58          |
| 1,3R,12      | IP65     | Red/Yellow | O/I & Off/On | 2.6/65           | Yes        | Yes         | 0.29          | BDH59          |
| 1,3R,4,4X,12 | IP65     | Black      | O/I & Off/On | 2.6/65           | Yes        | Yes         | 0.29          | CDHXB65L6      |
| 1,3R,4,4X,12 | IP65     | Red/Yellow | O/I & Off/On | 2.6/65           | Yes        | Yes         | 0.29          | CDHXY65L6      |
| 1,3R,12      | IP65     | Black      | Off/On/Test  | 2.6/65           | Yes        | Yes         | 0.29          | BDH58T         |
| 1,3R,12      | IP65     | Red/Yellow | Off/On/Test  | 2.6/65           | Yes        | Yes         | 0.29          | BDH59T         |

**Shafts** — for use with pistol handles ☐ .24 x .24" ( ☐ 6 x 6 mm)

| Shaft length (inches/mm) | Mounting depth (in inches) | Weight (lbs.) | Catalog number |
|--------------------------|----------------------------|---------------|----------------|
| 5.9/150                  | 4.9 – 8.9                  | 0.07          | BDS150         |
| 6.7/170                  | 5.9 – 9.7                  | 0.08          | BDS170         |
| 10.4/265                 | 9.5 – 13.4                 | 0.12          | BDS265         |
| 15.8/400                 | 15.0 – 18.7                | 0.18          | BDS400         |
| 19.7/500                 | 20.5 – 22.6                | 0.23          | BDS500         |

**Direct mount handle** — mounts directly to switch, no shaft necessary

| NEMA type | Color | Marking  | Length mm | Padlockable | Weight (lbs.) | Catalog number |
|-----------|-------|----------|-----------|-------------|---------------|----------------|
| 1         | Blk   | O/I/Test | 50        | Yes         | 0.10          | BDHA79         |



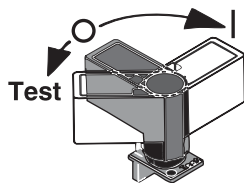
BDH56, BDH58



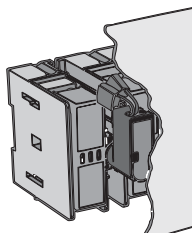
BDH57, BDH59



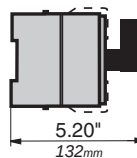
BDS\_\_



BDHA79



BDHA79 Mounted



5.20"/132mm  
BDHA79 Mounted depth

# Accessories for 30A Fusible Disconnect Switches

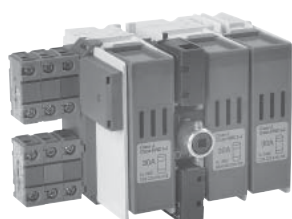


Fusible

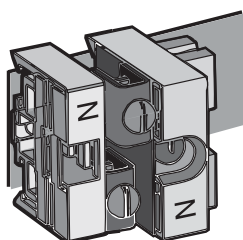
Non-Fused

Enclosed Fused

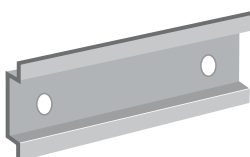
Enclosed Non-Fused



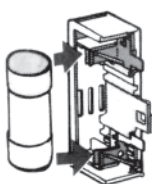
CFD30AJ3 with auxiliaries



CFDZX171



NDNA100



BDZD48



CXBY67121

## Auxiliary contacts<sup>①</sup>

| Description                           | For use on:                             | Weight (lbs) | AC thermal amp rating | AC rated voltage | Catalog number      |
|---------------------------------------|-----------------------------------------|--------------|-----------------------|------------------|---------------------|
| Form C 1 N.O. & 1 N.C.<br>(2 maximum) | CFD30_<br>for direct mounting to switch | 0.04         | 6                     | 250              | BDAUX157            |
| 1 N.O.<br>1 N.C.<br>(6 maximum)       | CFD30_<br>CDAUXB mounting base required | 0.03         | NEMA A600,P600        |                  | CDAUX10<br>CDAUX01K |

## Mounting base

| Description   | For use with:     | Weight (lbs) | Catalog number |
|---------------|-------------------|--------------|----------------|
| Mounting base | CDAUX10, CDAUX01K | 0.08         | CDAUXB         |

## Terminal pole

| Description                                             | For use on: | Weight (lbs) | AC thermal amp rating | AC rated voltage | Catalog number |
|---------------------------------------------------------|-------------|--------------|-----------------------|------------------|----------------|
| Detachable neutral mounts on side of switch or DIN rail | CFD30_      | 0.45         | 30                    | 600              | CFDZX171       |

## DIN rail

| Description            | For use on: | Weight (lbs.) | Length inches/mm | Catalog number |
|------------------------|-------------|---------------|------------------|----------------|
| 35mm DIN Rail          | CFD30_      | .38           | 39.4/1000        | NDNA100        |
| 35mm Aluminum DIN Rail | CFD30_      | .75           | 78.8/2000        | NDNA200        |

## Fuse Carriers (Replacement Parts)

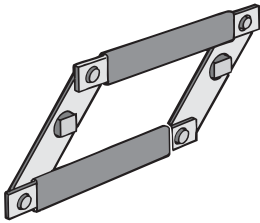
| Description         | For use on: | Catalog number |
|---------------------|-------------|----------------|
| CC fuse carrier     | BDCF30CC_   | BDZD48         |
| J fuse carrier      | BDCF30J_    | BDZD28         |
| Class CC Solid link | CFD30_      | NNB-R          |

## Terminal cover (replacement part)

| Description                        | For use on: | Catalog number |
|------------------------------------|-------------|----------------|
| Covers terminal below fuse carrier | CFD30_      | CDBY67121      |

<sup>①</sup> UL File # E83510





BDZW6

### Conversion mechanisms

- Switches are not included

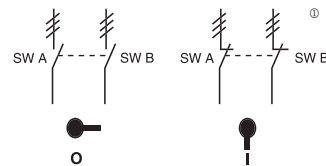
| Description | For use on: | Weight (lbs) |  | Catalog number |
|-------------|-------------|--------------|--|----------------|
| 6 pole      | CFD30       | 1.74         |  | BDZW6          |
| 8 pole      | CFD30       | 1.90         |  | BDZXB8         |

### 6 or 8 pole — BDZW5

6 (8) pole mechanism allows two switches, controlled by one handle, to open or close simultaneously.

Equipment required for a complete installation:

- One conversion mechanism
- Two disconnect switches
- One handle
- One 5 mm shaft



|       | POS. O | POS. I |
|-------|--------|--------|
| SW. A | O      | X      |
| SW. B | O      | X      |

X = Closed  
O = Open

① = Three poles

# 60A – 100A for Fusible Disconnect Switches



## UL Fuse Class J

For a complete assembly,  
please select one of each:

- 1 switch
- 1 handle
- 1 shaft
- 1 terminal lug kit



CFD60J3



BDS210



BDH58

### 60 – 100 Amp switches, 600V

| UL<br>general<br>purpose<br>amp rating | UL<br>Fuse<br>type<br>600V | Maximum horsepower rating |      |      |      |      | Catalog<br>number |
|----------------------------------------|----------------------------|---------------------------|------|------|------|------|-------------------|
|                                        |                            | Three phase               |      |      |      |      |                   |
|                                        |                            | 200V                      | 208V | 240V | 480V | 600V |                   |
| <b>3 pole</b>                          |                            |                           |      |      |      |      | <b>3 pole</b>     |
| 60                                     | J                          | 15                        | 15   | 15   | 30   | 50   | CFD60J3           |
| 100                                    | J                          | 25                        | 25   | 30   | 60   | 75   | CFD100J3          |
| <b>4 pole</b>                          |                            |                           |      |      |      |      | <b>4 pole</b>     |
| 60                                     | J                          | 15                        | 15   | 15   | 30   | 50   | CFD60J4           |
| 100                                    | J                          | 25                        | 25   | 30   | 60   | 75   | CFD100J4          |

### Pistol handles — $\square .24 \times .24"$ ( $\square 6 \times 6\text{mm}$ )

| NEMA/UL<br>type | IEC<br>type | Color   | Length<br>in/mm | Marking      | Defeatable | Padlockable | Weight<br>(lbs.) | Catalog<br>number |
|-----------------|-------------|---------|-----------------|--------------|------------|-------------|------------------|-------------------|
| 1,3R,12         | IP65        | Black   | 2.6/65          | O/I & Off/On | Yes        | Yes         | 0.29             | BDH58             |
| 1,3R,12         | IP65        | Red/Yel | 2.6/65          | O/I & Off/On | Yes        | Yes         | 0.29             | BDH59             |
| 1,3R,12         | IP65        | Black   | 3.1/80          | O/I & Off/On | Yes        | Yes         | 0.30             | BDH60             |
| 1,3R,12         | IP65        | Red/Yel | 3.1/80          | O/I & Off/On | Yes        | Yes         | 0.30             | BDH61             |
| 1,3R,4,4X,12    | IP65        | Black   | 3.1/80          | O/I & Off/On | Yes        | Yes         | 0.30             | CDHXB86           |
| 1,3R,4,4X,12    | IP65        | Red/Yel | 3.1/80          | O/I & Off/On | Yes        | Yes         | 0.30             | CDHXY86           |

### Shafts — $\square .24 \times .24"$ ( $\square 6 \times 6\text{mm}$ )

| Shaft length<br>(inches/mm) | Mounting depth<br>(inches) | Weight<br>(lbs.) | Catalog<br>number |
|-----------------------------|----------------------------|------------------|-------------------|
| 5.9/150                     | 5.5 – 8.5                  | 0.09             | BDS150            |
| 8.3/210                     | 8.0 – 11.0                 | 0.13             | BDS210            |
| 11.4/290                    | 11.0 – 14.0                | 0.18             | BDS290            |
| 14.2/360                    | 13.8 – 16.8                | 0.23             | BDS360            |
| 16.9/430                    | 16.5 – 19.7                | 0.27             | BDS430            |

### Twisted shafts — Rotates handle 45° $\square .24 \times .24"$ ( $\square 6 \times 6\text{mm}$ )

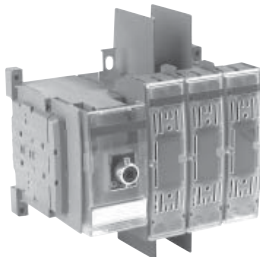
| Shaft length<br>(inches/mm) | Mounting depth<br>(inches) | Weight<br>(lbs.) | Catalog<br>number |
|-----------------------------|----------------------------|------------------|-------------------|
| 5.1/130                     | 4.8 – 7.8                  | 0.08             | BDST4             |
| 8.3/210                     | 8.0 – 11.0                 | 0.13             | BDST25            |
| 11.4/290                    | 11.0 – 14.0                | 0.18             | BDST29            |
| 14.2/360                    | 13.8 – 16.8                | 0.23             | BDST30            |

### Direct mount handle — mounts directly to switch, no shaft necessary

| NEMA<br>type | Color | Marking  | Length<br>mm | Padlockable | Weight<br>(lbs.) | Catalog<br>number |
|--------------|-------|----------|--------------|-------------|------------------|-------------------|
| 1            | Black | O/I/Test | 50           | Yes         | 0.10             | CDH4              |



CFD60J3



CFD100J3



BDH58,60



BDH59,61



BDS\_



BDST\_

Fusible

Non-Fused

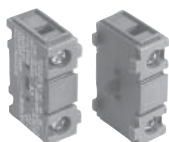
Enclosed Fused

Enclosed Non-Fused

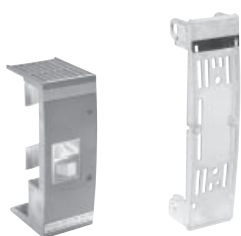




BDTL24



CDAUX10, CDAUX01K



CFC60J

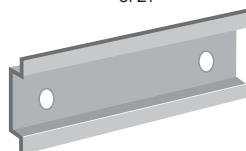
CFCVR100



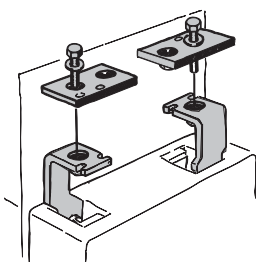
CFTS100



CFZ1



NDNA100



BDTA1

**Terminal lug kit**

| For use on: | Wire size | Kit weight (lbs) | Wire type | Terminal lugs per kit | Catalog number |
|-------------|-----------|------------------|-----------|-----------------------|----------------|
| CFD60J_     | #14 – 4   | —                | Cu        | —                     | Integral       |
| CFD100J_    | #14 – 2/0 | 0.43             | Cu/Al     | 6                     | BDTL24         |

**Auxiliary contacts**

| Description      | For use on:    | Weight (lbs) | AC thermal amp rating | AC rated voltage | Catalog number      |
|------------------|----------------|--------------|-----------------------|------------------|---------------------|
| 1 N.O.<br>1 N.C. | CFD60 – CFD100 | 0.07<br>0.07 | 10<br>10              | 600<br>600       | CDAUX10<br>CDAUX01K |

**Replacement fuse clip**

| Description            | For use on: | Catalog number |
|------------------------|-------------|----------------|
| Removable fuse carrier | CFD60       | CFC60J         |

**Replacement fuse covers**

| Description            | For use on: | Catalog number |
|------------------------|-------------|----------------|
| Transparent fuse cover | CFD100      | CFCVR100       |

**Terminal shroud**

| Description                                        | For use on:    | Weight (lbs) | Catalog number |
|----------------------------------------------------|----------------|--------------|----------------|
| Includes one terminal shroud for line or load side | CFD100, 1-POLE | 0.04         | CFTS100        |

**Terminal poles**

| Description                                             | For use on: | Weight (lbs.) | AC thermal amp rating | AC rated voltage | Catalog number |
|---------------------------------------------------------|-------------|---------------|-----------------------|------------------|----------------|
| Detachable neutral mounts on side of switch or DIN rail | CFD60       | 0.13          | 63                    | 600              | CFZ1           |
|                                                         | CFD100      | 0.31          | 125                   | 600              | CFZ2           |

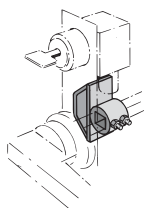
**DIN rail**

| Description            | For use on: | Weight (lbs.) | Length inches/mm | Catalog number |
|------------------------|-------------|---------------|------------------|----------------|
| 35mm Aluminum DIN Rail | CFD60       | .38           | 39.4/1000        | NDNA100        |
| 35mm Aluminum DIN Rail | CFD60       | .75           | 78.8/1000        | NDNA200        |

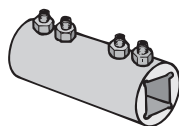
**“T” type fuse adapter kit**

| Description | For use on: | Catalog number |
|-------------|-------------|----------------|
| 100A, 600V  | CFD100      | BDTA1          |

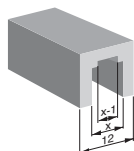
# Accessories for 60A – 100A Fusible Disconnect Switches



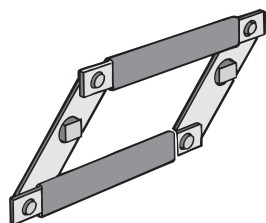
CDETL-ZW16



BDZX167  
BDZW95



CDZK19  
(X=6MM)



BDZW2

## Locking accessories

| Description                                                                                                                                                           | For use on:    | Weight (lbs) |  | Catalog number |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------|--|----------------|
| <b>Cam attachment</b> for Kirk Key, Castell, Lowe & Fletcher and Ronis interlock. Cam attachment for adapting to the interlock system. The interlock is not included. | CFD60 – CFD100 | 0.25         |  | CDETL-ZW16     |

## Shaft extension coupler

| Description                                                                  | For use on: | Weight (lbs) |  | Catalog number |
|------------------------------------------------------------------------------|-------------|--------------|--|----------------|
| Joins two shafts together for applications where extended length is required | 6mm shafts  | 0.26         |  | BDZX167        |
|                                                                              | 12mm shafts | 0.26         |  | BDZW95         |

## Shaft adapter

| Description                                                             | For use on: | Weight (lbs) |  | Catalog number |
|-------------------------------------------------------------------------|-------------|--------------|--|----------------|
| Adapts one end of a 6mm shaft to 12mm. Use with shaft extension coupler | 6mm shafts  | 0.20         |  | CDZK19         |

## Conversion mechanisms

- Switches are not included

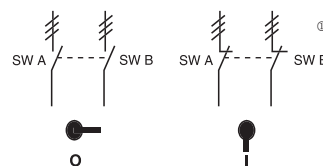
| Description          | For use on:    | Weight (lbs) |  | Catalog number |
|----------------------|----------------|--------------|--|----------------|
| 6 and 8 pole         | CFD60 – CFD100 | 1.52         |  | BDZW2          |
| Mechanical interlock | CFD60 – CFD100 | 0.55         |  | BDZW10         |

### 6 or 8 pole — BDZW2

6 (8) pole mechanism allows two switches controlled by one handle, to open or close simultaneously. Shafts included.

Equipment required for a complete installation:

- One conversion mechanism
- Two disconnect switches
- One handle



|       | POS. O | POS. I |
|-------|--------|--------|
| SW. A | O      | X      |
| SW. B | O      | X      |

X = Closed  
O = Open

① = Three poles

Fusible

Non-Fused

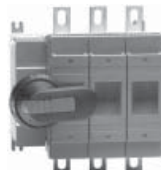
Enclosed Fused

Enclosed Non-Fused

**UL Fuse Class J**

For a complete assembly,  
please select one of each:

- 1 switch
- 1 handle
- 1 shaft
- 1 terminal lug kit



CFD200J03



BDS210



BDH58



CDTL200

**200 Amp Switches, 600V**

| UL<br>general<br>purpose<br>amp rating | UL<br>fuse<br>type<br>600V | Maximum horsepower rating |      |      |      |      | Catalog<br>number |
|----------------------------------------|----------------------------|---------------------------|------|------|------|------|-------------------|
|                                        |                            | Three phase               |      |      |      |      |                   |
|                                        |                            | 200V                      | 208V | 240V | 480V | 600V |                   |
| 3 pole                                 |                            |                           |      |      |      |      |                   |
| 200                                    | J                          | 50                        | 50   | 60   | 125  | 150  | CFD200J03         |
| 4 pole                                 |                            |                           |      |      |      |      |                   |
| 200                                    | J                          | 50                        | 50   | 60   | 125  | 150  | CFD200J04         |

**Pistol handles - □ .24 x .24" ( □ 6 x 6mm)**

| UL/NEMA type | IEC type | Color   | Length inches/mm | Marking      | Defeatable | Padlockable | Weight (lbs) | Catalog number |
|--------------|----------|---------|------------------|--------------|------------|-------------|--------------|----------------|
| 1,3R,12      | IP65     | Black   | 2.6/65           | O/I & Off/On | Yes        | Yes         | 0.29         | BDH58          |
| 1,3R,12      | IP65     | Red/Yel | 2.6/65           | O/I & Off/On | Yes        | Yes         | 0.29         | BDH59          |
| 1,3R,12      | IP65     | Black   | 3.1/80           | O/I & Off/On | Yes        | Yes         | 0.30         | BDH60          |
| 1,3R,12      | IP65     | Red/Yel | 3.1/80           | O/I & Off/On | Yes        | Yes         | 0.30         | BDH61          |
| 1,3R,4,4X,1  | IP65     | Black   | 3.1/80           | O/I & Off/On | Yes        | Yes         | 0.30         | CDHXB86        |
| 1,3R,4,4X,12 | IP65     | Red/Yel | 3.1/80           | O/I & Off/On | Yes        | Yes         | 0.30         | CDHXY86        |

**Shafts - □ .24 x .24" ( □ 6 x 6mm)**

| Shaft length (inches/mm) | Mounting dept (inches) | Weight (lbs) | Catalog number |
|--------------------------|------------------------|--------------|----------------|
| 5.9/150                  | 5.5-8.5                | 0.09         | BDS150         |
| 8.3/210                  | 8.0-11.0               | 0.13         | BDS210         |
| 11.4/290                 | 11.0-14.0              | 0.18         | BDS290         |
| 14.2/360                 | 13.8-16.8              | 0.23         | BDS360         |
| 16.9/430                 | 16.5-19.7              | 0.27         | BDS430         |

**Twisted shafts - rotates handle 45° □ .24 x .24" ( □ 6 x 6mm)**

| Shaft length (inches/mm) | Mounting dept (inches) | Weight (lbs) | Catalog number |
|--------------------------|------------------------|--------------|----------------|
| 5.1/130                  | 4.8-7.8                | 0.08         | BDST4          |
| 8.3/210                  | 8.0-11.0               | 0.13         | BDST25         |
| 11.4/290                 | 11.0-14.0              | 0.18         | BDST29         |
| 14.2/360                 | 13.8-16.8              | 0.23         | BDST30         |

**Direct mount handle - mounts directly to switch, no shaft necessary**

| Nema Type | Color   | Marking | Padlockable | (lbs) | Catalog number |
|-----------|---------|---------|-------------|-------|----------------|
| 1         | Black   | O/I     | Yes         | 0.1   | CDHSB20        |
| 1         | Red/Yel | O/I     | Yes         | 0.3   | CDHSY20        |



BDH58,60



BDH58,61



BDS\_



BDST\_

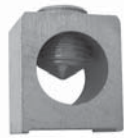
Fusible

Non-Fused

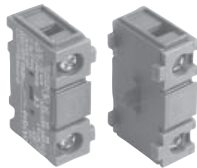
Enclosed Fused

Enclosed Non-Fused

# Accessories for 200A Fusible Disconnect Switches



CDTL200



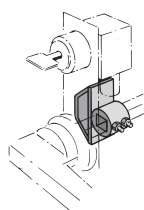
CDAUX10, CDAUX01K



CDSS200S3



CDSS200L3



CDETL-ZW16

## Terminal Lug Kits

| For use on:            | Wire Size    | Wire Type | Description      | Terminal lugs per kit | Weight (lbs) | Catalog number |
|------------------------|--------------|-----------|------------------|-----------------------|--------------|----------------|
| CFD200J03<br>CFD200J04 | #4-300kcmil  | Cu/Al     | ---              | 6                     | 0.5          | CDTL200        |
|                        | #4-300kcmil  |           | ---              | 3                     | 0.25         | CDTL200/3P     |
|                        | (6) 14-6 AWG |           | Distribution lug | 3                     |              | CDTL206        |

## Auxiliary Contacts

| Description      | For use on:          | Weight (lbs) | Catalog number      |
|------------------|----------------------|--------------|---------------------|
| 1 N.O.<br>1 N.C. | CFD200J03, CFD200J04 | 0.07<br>0.07 | CDAUX10<br>CDAUX01K |

## Module for auxiliary contacts

| Description                                   | Weight (lbs) | Catalog number |
|-----------------------------------------------|--------------|----------------|
| Screw mounting to the left side of the switch | 0.1          | CDAUXM28       |

Mounting on the left side of the switch: Max. 8 auxiliary contact blocks with the CDAUXM28  
Mounting under the mechanism cover: Max. 4 auxiliary contact blocks

## Replacement parts

| Description                 | For use on:                | Catalog number      |
|-----------------------------|----------------------------|---------------------|
| Fuse cover<br>Phase barrier | CFD200J03 and<br>CFD200J04 | CFCVR200<br>CPBR200 |

## Terminal

| For use on:             | Description | Number of poles | Weight (lbs) | Catalog number |
|-------------------------|-------------|-----------------|--------------|----------------|
| CFD200J03 and CFD200J04 | Long type   | 3               | 0.2          | CDSS200L3      |
|                         | Short type  | 3               | 0.13         | CDSS200S3      |
|                         | Long type   | 4               | 0.26         | CDSS200L4      |
|                         | Short type  | 4               | 0.18         | CDSS200S4      |

## Terminal poles

| Description                                        | Weight (lbs) | AC thermal amp rating | AC rated voltage | Catalog number |
|----------------------------------------------------|--------------|-----------------------|------------------|----------------|
| Detachable neutral mounts on side of switch or DIN | 0.88         | 200                   | 600              | CDD200P        |

## Locking accessories

| Description                                                                                                                                                           | Weight (lbs) | Catalog number |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------|
| <b>Cam attachment</b> for Kirk Key, Castell, Lowe & Fletcher and Ronis interlock. Cam attachment for adapting to the interlock system. The interlock is not included. | 0.25         | CDETL-ZW16     |

Fusible

Non-Fused

Enclosed Fused

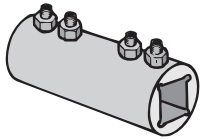
Enclosed Non-Fused

Fusible

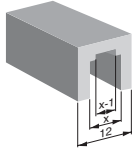
Non-Fused

Enclosed Fused

Enclosed Non-Fused



BDZX167, BDZW95



CDZK19  
(X=6mm)



BDZW2

#### Shaft extension coupler

| Description                                                                  | For use on:               | Weight (lbs) | Catalog number    |
|------------------------------------------------------------------------------|---------------------------|--------------|-------------------|
| Joins two shafts together for applications where extended length is required | 6mm shafts<br>12mm shafts | 0.26         | BDZX167<br>BDZX95 |

#### Shaft adapter

| Description                                                              | For use on: | Catalog number |
|--------------------------------------------------------------------------|-------------|----------------|
| Adapts one end of a 6mm shaft to 12mm. Use with shaft extension coupler. | 6mm shafts  | CDZK19         |

#### Conversion mechanisms

| Description  | Weight (lbs) | UL/NEMA type | Catalog number |
|--------------|--------------|--------------|----------------|
| 6 and 8 pole | 1.52         | -----        | BDZW2          |

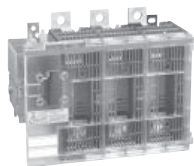
# 400A – 800A Fusible Disconnect Switches



## UL Fuse Class J, T, L

For a complete assembly,  
please select one of each:

- 1 switch
- 1 handle
- 1 shaft
- 1 terminal lug kit



FD400J3



BDS280



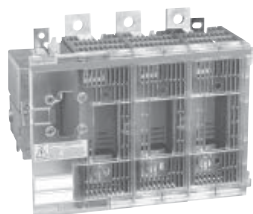
BDH114



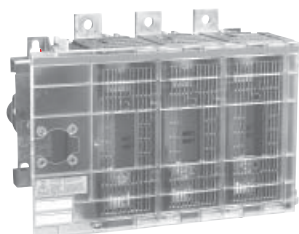
BDTL26

## 400 – 800 Amp switches, 600V

| UL<br>general<br>purpose<br>amp rating | UL<br>Fuse<br>type<br>600V | Maximum horsepower rating |      |      |      |      | Catalog<br>number |
|----------------------------------------|----------------------------|---------------------------|------|------|------|------|-------------------|
|                                        |                            | Three phase               |      |      |      |      |                   |
|                                        |                            | 200V                      | 208V | 240V | 480V | 600V |                   |
| 2 pole                                 |                            |                           |      |      |      |      | 2 pole            |
| 400                                    | J®                         | —                         | —    | —    | —    | —    | FD400J2           |
| 600                                    | J®                         | —                         | —    | —    | —    | —    | FD600J2           |
| 800                                    | L                          | —                         | —    | —    | —    | —    | FD800L2           |
| 3 pole                                 |                            |                           |      |      |      |      | 3 pole            |
| 400                                    | J®                         | 100                       | 125  | 125  | 250  | 350  | FD400J3           |
| 600                                    | J®                         | 150                       | 150  | 200  | 400  | 500  | FD600J3           |
| 800                                    | L                          | 200                       | 200  | 250  | 500  | 600  | FD800L3           |
| 4 pole                                 |                            |                           |      |      |      |      | 4 pole            |
| 400                                    | J®                         | 100                       | 125  | 125  | 250  | 350  | FD400J4           |
| 600                                    | J®                         | 150                       | 150  | 200  | 400  | 500  | FD600J4           |
| 800                                    | L                          | 200                       | 200  | 250  | 500  | 600  | FD800L4           |



FD400J3



FD600J3  
FD800L3



BDH112



BDH113

## Pistol handles — □ .47 x .47" (□ 12 x 12mm)

| NEMA<br>type | IEC<br>type | Color   | Length<br>inches/mm | Marking      | Defeatable | Padlockable | Weight<br>(lbs) | Catalog<br>number |
|--------------|-------------|---------|---------------------|--------------|------------|-------------|-----------------|-------------------|
| 1,3R,12      | IP65        | Black   | 4.9/125             | O/I & Off/On | Yes        | Yes         | 0.39            | BDH112            |
| 1,3R,12      | IP65        | Red/Yel | 4.9/125             | O/I & Off/On | Yes        | Yes         | 0.39            | BDH113            |
| 1,3R,12      | IP65        | Black   | 5.7/145             | O/I & Off/On | Yes        | Yes         | 0.39            | BDH114            |
| 1,3R,12      | IP65        | Red/Yel | 5.7/145             | O/I & Off/On | Yes        | Yes         | 0.39            | BDH115            |
| 1,3R,12      | IP65        | Black   | 6.9/175             | O/I & Off/On | Yes        | Yes         | 0.41            | BDH116            |
| 1,3R,12      | IP65        | Red/Yel | 6.9/175             | O/I & Off/On | Yes        | Yes         | 0.41            | BDH117            |
| 1,3R,4,4X,12 | IP65        | Black   | 5.7/145             | O/I & Off/On | Yes        | Yes         | 0.39            | CDHXB12           |
| 1,3R,4,4X,12 | IP65        | Red/Yel | 5.7/145             | O/I & Off/On | Yes        | Yes         | 0.39            | CDHXY12           |
| 1,3R,4,4X,12 | IP65        | Black   | 6.9/175             | O/I & Off/On | Yes        | Yes         | 0.41            | CDHXB22           |
| 1,3R,4,4X,12 | IP65        | Red/Yel | 6.9/175             | O/I & Off/On | Yes        | Yes         | 0.41            | CDHXY22           |
| 1,3R,4,4X,12 | IP65        | Metal   | 8.7/220             | Off/On       | —          | Yes         | 1.50            | BDH8              |

<sup>®</sup> J type fuse clips are standard. If 600V Type "T" fuse clips are desired, please order a "T" type fuse adapter kit.

Fusible

Non-Fused

Enclosed Fused

Enclosed Non-Fused



Fusible

Non-Fused

Enclosed Fused

Enclosed Non-Fused



BDS\_



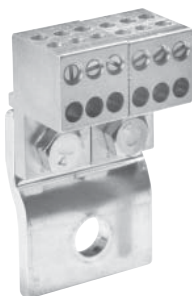
BDS\_45



BDTL26



BDTL27



BDTL175/400



BDTA\_

**Shafts** — ☐ .47 x .47" ( ☐ 12 x 12mm)

Shaft length

Mounting depth<sup>①</sup> in inches

Weight

Catalog

**For use on FD400J\_**

|          |             |      |        |
|----------|-------------|------|--------|
| 8.7/220  | 7.9 – 12.2  | 0.61 | BDS220 |
| 9.8/250  | 9.1 – 13.4  | 0.70 | BDS250 |
| 11.0/280 | 10.2 – 14.5 | 0.77 | BDS280 |
| 12.8/325 | 12.0 – 16.3 | 0.90 | BDS325 |
| 15.6/395 | 14.8 – 19.1 | 1.10 | BDS395 |
| 18.3/465 | 17.5 – 21.9 | 1.32 | BDS465 |
| 21.1/535 | 20.3 – 24.6 | 1.54 | BDS535 |

**For use on FD600J\_ – FD800J\_**

|          |             |      |        |
|----------|-------------|------|--------|
| 9.8/250  | 10.0 – 12.8 | 0.70 | BDS250 |
| 11.0/280 | 11.2 – 14.0 | 0.77 | BDS280 |
| 12.8/325 | 13.0 – 15.8 | 0.90 | BDS325 |
| 15.6/395 | 15.8 – 18.6 | 1.10 | BDS395 |
| 18.3/465 | 18.5 – 21.3 | 1.32 | BDS465 |
| 21.1/535 | 21.1 – 24.1 | 1.54 | BDS535 |

**Twisted shafts** — Rotates handle 45° ☐ .47 x .47" ( ☐ 12 x 12mm)Shaft length  
(inches/mm)Mounting depth  
(inches)Weight  
(lbs.)Catalog  
number**For use on FD400J\_**

|          |             |      |          |
|----------|-------------|------|----------|
| 11.0/280 | 10.2 – 14.5 | 0.77 | BDS28045 |
| 12.8/325 | 12.0 – 16.3 | 0.90 | BDS32545 |
| 18.3/465 | 17.5 – 21.9 | 1.32 | BDS46545 |

**For use on FD600J\_ – FD800J\_**

|          |             |      |          |
|----------|-------------|------|----------|
| 11.0/280 | 11.2 – 14.0 | 0.77 | BDS28045 |
| 12.8/325 | 13.0 – 15.8 | 0.90 | BDS32545 |
| 18.3/465 | 18.5 – 21.3 | 1.32 | BDS46545 |

**Terminal lug kit**

| For use on:       | Wire size              | Kit weight (lbs) | Wire type | Terminal lugs per kit | Catalog number |
|-------------------|------------------------|------------------|-----------|-----------------------|----------------|
| FD400J_           | #2 – 600 kcmil         | 3.50             | Cu/Al     | 6                     | BDTL26         |
| FD600J – FD800L   | (12)#14-16 – 600 kcmil | 1.10             | Cu/Al     | 3                     | BDTL175/400    |
| FD600J_ & FD800L_ | (2)#2 – 600 kcmil      | 4.62             | Cu/Al     | 6                     | BDTL27         |

**“T” type fuse adapter kit**

| For use on: | AC thermal amp rating | AC rated voltage | Poles | Catalog number |
|-------------|-----------------------|------------------|-------|----------------|
| FD400J_     | 400                   | 600              | 3     | BDTA4          |
| FD600J_     | 600                   | 600              | 3     | BDTA6          |

<sup>①</sup> Mounting depth is the distance from the outside of the door to the disconnect switch mounting plate. Shaft can be cut to desired length.

# Accessories for 400A – 800A Fusible Disconnect Switches

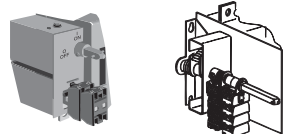


Fusible

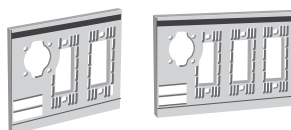
Non-Fused

Enclosed Fused

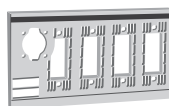
Enclosed Non-Fused



BDAUX\_  
200A & 400A  
Switches  
600A & 800A  
Switches



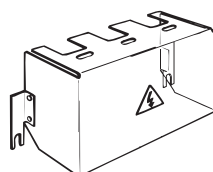
BDZX271  
BDZX216  
BDZX272  
BDZX196



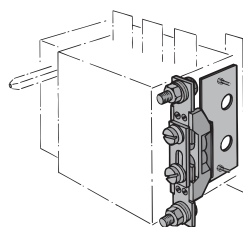
BDZX273  
BDZX197



BDZX204



BDT5F\_



BDTP85  
BDTP88

## Auxiliary contacts<sup>①</sup>

| Description     | For use on:      | Weight (lbs) | AC thermal amp rating | AC rated voltage | Catalog number |
|-----------------|------------------|--------------|-----------------------|------------------|----------------|
| 1 N.O. + 1 N.C. | FD400 –<br>FD800 | 0.20         | 10                    | 600              | BDAUX1         |
| 2 N.O. + 2 N.C. |                  | 0.26         | 10                    | 600              | BDAUX2         |
| 4 N.O. + 4 N.C. |                  | 0.40         | 10                    | 600              | BDAUX3         |
| 2 N.O.          |                  | 0.18         | 10                    | 600              | BDAUX4         |
| 4 N.O.          |                  | 0.25         | 10                    | 600              | BDAUX5         |
| 8 N.O.          |                  | 0.40         | 10                    | 600              | BDAUX6         |

## Fuse covers (replacement part)

| Description | For use on:      | Weight (lbs) | Catalog number |
|-------------|------------------|--------------|----------------|
| 2 pole      | FD400            | 0.30         | BDZX271        |
| 3 pole      |                  | 0.40         | BDZX272        |
| 4 pole      |                  | 0.53         | BDZX273        |
| 2 pole      | FD600 –<br>FD800 | 0.40         | BDZX216        |
| 3 pole      |                  | 0.50         | BDZX196        |
| 4 pole      |                  | 0.67         | BDZX197        |

## Fuse cover interlock

| Description                                                                     | For use on:     | Catalog number |
|---------------------------------------------------------------------------------|-----------------|----------------|
| Prevents the fuse cover from being opened when the switch is in the ON position | FD400-<br>FD800 | BDZX204        |

## Terminal shroud

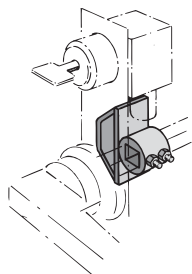
| Description                                        | For use on:   | Weight (lbs) | Catalog number |
|----------------------------------------------------|---------------|--------------|----------------|
| Includes one terminal shroud for line or load side | FD400         | 0.13         | BDTSF4         |
|                                                    | FD600 – FD800 | 0.11         | BDTSF6         |

## Terminal pole

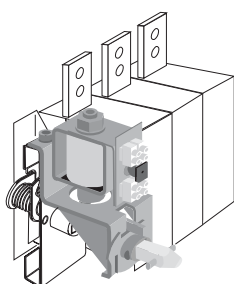
| Description                                             | For use on:      | Weight (lbs) | AC thermal amp rating | AC rated voltage | Catalog number |
|---------------------------------------------------------|------------------|--------------|-----------------------|------------------|----------------|
| Detachable neutral mounts on side of switch or DIN rail | FD400            | 1.04         | 400                   | 600              | BDTP85         |
|                                                         | FD600 –<br>FD800 | 1.19         | 800                   | 600              | BDTP88         |

<sup>①</sup> UL file #E57057

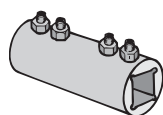
Fusible



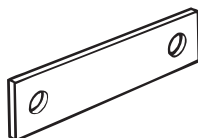
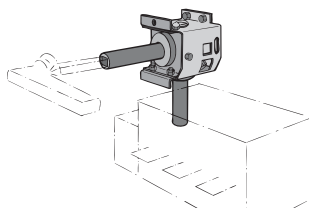
CDETL-ZW5



CDETL-ZT80



BDZW95

FDSBZK98  
FDSBZL79

BDZX108

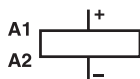
Non-Fused

Enclosed Fused

Enclosed Non-Fused

## Locking accessories

| Description                                                                                                                                                                                                                                                                                                     | For use on:      | Weight (lbs) | Catalog number             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------------|----------------------------|
| <b>Cam attachment</b> for Kirk Key, Castell, Lowe & Fletcher and Ronis interlock. For adapting to the interlock system. The interlock is not included.                                                                                                                                                          | FD400 –<br>FD800 | 0.29         | CDETL-ZW5                  |
| <b>Electrical interlock</b> Closed circuit principle for interlocking the switch movement. When the coil circuit is dead, A-types cannot be operated to ON-position and L-types cannot be operated to ON- or OFF-position.<br><br>Coil voltages 110VAC, 220VAC, 24VDC, 48VDC, 60 VDC<br>110VDC, 220VDC, P = 15W | FD600 –<br>FD800 | 2.42         | CDETL-ZT80A<br>CDETL-ZT80L |



H - Coil voltage

## Shaft extension coupler

| Description                                                                  | For use on: | Weight (lbs) | Catalog number |
|------------------------------------------------------------------------------|-------------|--------------|----------------|
| Joins two shafts together for applications where extended length is required | 12mm shafts | 0.26         | BDZW95         |

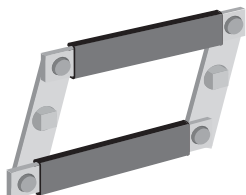
## Shorting bars

| Description                | For use on:      | AC thermal amp rating | AC rated voltage | Catalog number |
|----------------------------|------------------|-----------------------|------------------|----------------|
| Solid links<br>(1 per kit) | FD400            | 400                   | 600              | FDSBZK98       |
|                            | FD600 –<br>FD800 | 800                   | 600              | FDSBZL79       |

## 90° angle kit

| Description                                                      | For use on:      | Weight (lbs) | Catalog number |
|------------------------------------------------------------------|------------------|--------------|----------------|
| Converts switch mechanism from front operation to side operation | FD400 –<br>FD800 | 4.63         | BDZX108        |

# Accessories for 400A – 800A Fusible Disconnect Switches



BDZW9

## Conversion mechanisms

- Switches are not included

| Description | For use on:   | Weight (lbs) | Catalog number |
|-------------|---------------|--------------|----------------|
| 6 or 8 pole | FD400 – FD800 | 2.42         | BDZW9          |

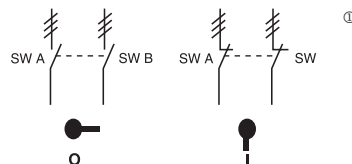
## 6 or 8 pole — BDZW9

6 (8) pole mechanism allows two switches controlled by one handle, to open or close simultaneously.

Equipment required for a complete installation:

- One conversion mechanism
- Two disconnect switches
- One handle
- One additional shaft

(Only one shaft is included with mechanism)



|       | POS. O | POS. I |
|-------|--------|--------|
| SW. A | O      | X      |
| SW. B | O      | X      |

X = Closed  
O = Open

① = Three poles

Fusible

Non-Fused

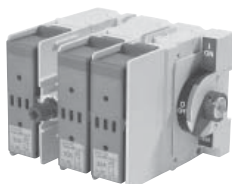
Enclosed Fused

Enclosed Non-Fused

**UL Fuse Class J, CC, T**

For a complete assembly,  
please select one of each:

- 1 switch
- 1 handle
- 1 shaft
- 1 terminal lug kit



CFD30AJ3S



BDS170



BDH59SH

## Side operated switches — 3 pole

| UL<br>general<br>purpose<br>amp rating | UL<br>fuse<br>type<br>600V | Maximum horsepower rating |      |      |      |      | Weight<br>(lbs) | Catalog<br>number |
|----------------------------------------|----------------------------|---------------------------|------|------|------|------|-----------------|-------------------|
|                                        |                            | Three phase               |      |      |      |      |                 |                   |
|                                        |                            | 200V                      | 208V | 240V | 480V | 600V |                 |                   |
| 30                                     | J                          | 5                         | 7.5  | 7.5  | 15   | 20   | 1.54            | CFD30AJ3S         |
| 30                                     | CC                         | 5                         | 7.5  | 7.5  | 15   | 20   | 1.54            | CFD30ACC3S        |
| 60                                     | J                          | 15                        | 15   | 15   | 30   | 50   | 3.52            | CFD60J3S          |
| 100                                    | J <sup>①</sup>             | 25                        | 25   | 30   | 60   | 75   | 3.97            | CFD100J3S         |
| 200                                    | J <sup>①</sup>             | 50                        | 50   | 60   | 125  | 150  | 15.21           | FD200J3-S         |
| 400                                    | J <sup>①</sup>             | 100                       | 125  | 125  | 250  | 350  | 17.20           | FD400J3-S         |

## Handles

| NEMA type                                     | IEC type | Color      | Length<br>inches/mm | Marking     | Defeatable | Padlockable | Weight | Catalog<br>number |
|-----------------------------------------------|----------|------------|---------------------|-------------|------------|-------------|--------|-------------------|
| <b>For use with CFD30J3S &amp; CFD30CC3S</b>  |          |            |                     |             |            |             |        |                   |
| 1, 3R, 12                                     | IP65     | Black      | 2.6/65              | OFF/ON/TEST | Yes        | Yes         | 0.29   | BDH58SH           |
| 1, 3R, 12                                     | IP65     | Red/Yellow | 2.6/65              | OFF/ON/TEST | Yes        | Yes         | 0.29   | BDH59SH           |
| <b>For use with CFD60J3S &amp; CFD100J3S</b>  |          |            |                     |             |            |             |        |                   |
| 1, 3R, 12                                     | IP65     | Black      | 3.1/80              | OFF/ON/TEST | Yes        | Yes         | 0.30   | BDH110SH          |
| 1, 3R, 12                                     | IP65     | Red/Yellow | 3.1/80              | OFF/ON/TEST | Yes        | Yes         | 0.30   | BDH111SH          |
| <b>For use with FD200J3-S &amp; FD400J3-S</b> |          |            |                     |             |            |             |        |                   |
| 1, 3R, 12                                     | IP65     | Black      | 4.9/145             | OFF/ON/TEST | Yes        | Yes         | 0.39   | BDH114SH          |
| 1, 3R, 12                                     | IP65     | Red/Yellow | 4.9/145             | OFF/ON/TEST | Yes        | Yes         | 0.39   | BDH115SH          |
| 1, 3R, 12                                     | IP65     | Metal      | 4.9/145             | OFF/ON/TEST | —          | Yes         | 1.50   | BDZX74            |

— = No

## Shafts

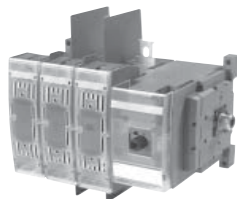
| For use with:          | Length<br>(inches/mm) | Description              | Weight<br>(lbs.) | Catalog<br>number |
|------------------------|-----------------------|--------------------------|------------------|-------------------|
| CFD30AJ3S & CFD30ACC3S | 6.7/170               | 0.24 x 0.24" (6 x 6mm)   | 0.08             | BDS170            |
| CFD60J3S & CFD100J3S   | 8.3/210               | 0.24 x 0.24" (6 x 6mm)   | 0.13             | BDS210            |
| FD200J3-S & FD400J3-S  | 12.8/325              | 0.47 x 0.47" (12 x 12mm) | 0.90             | BDS325            |

## Terminal lug kit

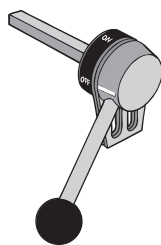
| For use on:          | Wire<br>size   | Kit weight<br>(lbs) | Wire<br>type | Lugs<br>per kit | Catalog<br>number |
|----------------------|----------------|---------------------|--------------|-----------------|-------------------|
| CFD30J3S & CFD30CC3S | #14 – 4        | —                   | Cu           | —               | Integral          |
| CFD60J3S             | #14 – 4        | —                   | Cu           | —               | Integral          |
| CFD100J3S            | #14 – 2/0      | 0.43                | Cu/Al        | 6               | BDTL24            |
| FD200J3-S            | #6 – 300 kcmil | 0.93                | Cu/Al        | 6               | BDTL25            |
| FD400J3-S            | #2 – 600 kcmil | 3.50                | Cu/Al        | 6               | BDTL26            |

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

CFD60J3S



CFD100J3S



BDZX74



BDS325



BDTL25

Fusible

Non-Fused

Enclosed Fused

Enclosed Non-Fused

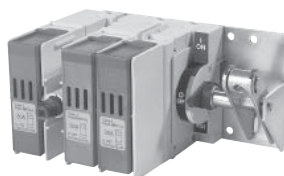
# Flange Operated Fusible Disconnect Switches for 30A – 100A



## UL Fuse Class J, CC, T

For a complete assembly,  
please select one of each:

- 1 switch
- 1 handle
- 1 shaft
- 1 terminal lug kit



CFD30J3F



BDFHS12



BDFHNHS12

### Flange operated switches — 3 pole

| UL<br>general<br>purpose<br>amp rating | UL<br>fuse<br>type<br>600V | Maximum horsepower rating |      |      |      |      | Weight<br>(lbs) | Catalog<br>number |
|----------------------------------------|----------------------------|---------------------------|------|------|------|------|-----------------|-------------------|
|                                        |                            | Three phase               |      |      |      |      |                 |                   |
|                                        |                            | 200V                      | 208V | 240V | 480V | 600V |                 |                   |
| 30                                     | J                          | 5                         | 7.5  | 7.5  | 15   | 20   | 2.20            | CFD30AJ3F         |
| 30                                     | CC                         | 5                         | 7.5  | 7.5  | 15   | 20   | 2.50            | CFD30ACC3F        |
| 60                                     | J                          | 15                        | 15   | 15   | 30   | 50   | 3.52            | CFD60J3F          |
| 100                                    | J                          | 25                        | 25   | 30   | 60   | 75   | 3.97            | CFD100J3F         |
|                                        |                            |                           |      |      |      |      |                 |                   |

### Handles

| NEMA<br>type |  | Color | Length<br>inches/mm | Marking      | Defeatable | Padlockable | Weight<br>(lbs) | Catalog<br>number |
|--------------|--|-------|---------------------|--------------|------------|-------------|-----------------|-------------------|
| 1, 3R, 12    |  | Metal | 6.9/175             | O/I & OFF/ON | Yes        | Yes         | 3.52            | BDFHNHS12         |
| 4, 4X        |  | Metal | 6.9/175             | O/I & OFF/ON | Yes        | Yes         | 3.52            | BDFHNHS4          |

### Shafts

| Shaft length<br>inches |  | Mounting depth<br>in inches | Weight<br>(lbs) | Catalog<br>number |
|------------------------|--------------------------------------------------------------------------------------|-----------------------------|-----------------|-------------------|
| 12                     |                                                                                      |                             | 0.39            | BDFHS12           |
| 17                     |                                                                                      |                             | 0.55            | BDFHS17           |
| 22.5                   |                                                                                      |                             | 0.73            | BDFHS22           |

### Terminal lug kit

| For use on:                | Wire<br>size | Kit weight<br>(lbs) | Wire<br>type | Lugs<br>per kit | Catalog<br>number |
|----------------------------|--------------|---------------------|--------------|-----------------|-------------------|
| BDCF30J6_ &<br>BDFLF60J6-F | #14 – #4     | —                   | Cu           | —               | Standard          |
| BDFLF100J6-F               | #14 – 2/0    | 0.43                | Cu/Al        | 6               | BDTL24            |

### Door hardware — NEMA 12

| Item                                         | Weight<br>(lbs) | Catalog<br>number |
|----------------------------------------------|-----------------|-------------------|
| Safety door latch,<br>2 point with 6" handle | 1.92            | BDDHK             |
| Roller for 3 point latch,<br>add to FH-DHK   | 0.39            | BD3RL             |

Fusible

Non-Fused

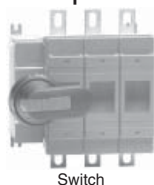
Enclosed Fused

Enclosed Non-Fused

# Cable Operated Fusible Disconnect Switches for 30A – 800A

**UL Fuse Class CC, J, L & T**

For a complete assembly, please select one each of the following:



Switch

+



Handle

+



Cable

+

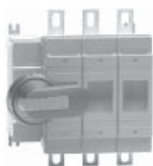


Lug kit (as required)

+



Operating mechanism



Switch



Handle

## Fusible

| UL<br>general<br>purpose<br>amp rating | UL<br>fuse<br>type<br>600V | Maximum horsepower rating |      |      |      |       | Mechanism<br>Part Number | Switch<br>Part Number |
|----------------------------------------|----------------------------|---------------------------|------|------|------|-------|--------------------------|-----------------------|
|                                        |                            | Three-phase               |      |      |      |       |                          |                       |
|                                        |                            | 200-208V                  | 240V | 480V | 600V | Poles |                          |                       |
| 30                                     | CC                         | 5/7.5                     | 7.5  | 15   | 20   | 3     | BMKCS2                   | CFD30ACC3             |
| 30                                     | J                          | 5/7.5                     | 7.5  | 15   | 20   | 3     | BMKCS2                   | CFD30AJ3              |
| 60                                     | J                          | 15                        | 15   | 30   | 50   | 3     | BMKCS3                   | CFD60J3               |
| 100                                    | J/T                        | 25                        | 30   | 60   | 75   | 3     | BMKCS4                   | CFD100AJ3             |
| 200                                    | J                          | 50                        | 60   | 125  | 150  | 3     | BMKCS4                   | CFD200J03             |
| 400                                    | J/T                        | 100                       | 125  | 250  | 350  | 3     | Incl.                    | FD400J3-FC            |
| 600                                    | J/T                        | 150                       | 200  | 400  | 500  | 3     | Incl.                    | FD600J3-FC            |
| 800                                    | L                          | 200                       | 250  | 500  | 600  | 3     | Incl.                    | FD800J3-FC            |

## Flange handles - UL 98; File #E101914

| For use with:  | Environmental<br>rating | Catalog<br>number |
|----------------|-------------------------|-------------------|
| CFD30 - CFD200 | NEMA 1, 3R, 12          | BDHFC12           |
|                | NEMA 4, 4X              | BDHFC4            |
| FD400 - FD800  | NEMA 1, 3R, 12          | BK7FCH            |
|                | NEMA 4, 4X              | BK7FCH4           |

## Flexible cables

| For use with:  | Cable length<br>(inches) | Catalog<br>number |
|----------------|--------------------------|-------------------|
| CFD30 - CFD200 | 36                       | BFCL36            |
|                | 48                       | BFCL48            |
|                | 60                       | BFCL60            |
|                | 72                       | BFCL72            |
|                | 84                       | BFCL84            |
|                | 96                       | BFCL96            |
|                | 108                      | BFCL108           |
| FD400 - FD800  | 48                       | BK7C048           |
|                | 60                       | BK7C060           |
|                | 72                       | BK7C072           |
|                | 84                       | BK7C084           |

## Terminal lug kits

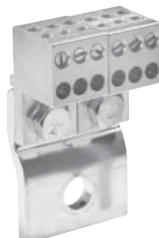
| For use with:     | Wire<br>size          | Wire<br>type | Description | Lugs<br>per kit | Catalog<br>number |
|-------------------|-----------------------|--------------|-------------|-----------------|-------------------|
| CFD100 - CFD200   | #4-300kcmil           | Cu/Al        | -           | 6               | CDTL200           |
|                   | #4-300kcmil           | Cu/Al        | -           | 3               | CDTL200/3P        |
|                   | (6)#4-6AWG            | Cu/Al        | Dist. lug   | 3               | CDTL206           |
| FD400J            | #2-600kcmil           | Cu/Al        |             | 6               | BDTL26            |
| FD600J - FD800L   | (12)#14-16 - 600kcmil | Cu/Al        |             | 3               | BDTL175/400       |
| FD600J - & FD800L | (2)#2 - 600kcmil      | Cu/Al        |             | 6               | BDTL27            |

## Door hardware — NEMA 12

| Item                                                   | Catalog<br>number |
|--------------------------------------------------------|-------------------|
| Safety door latch, 2 point, door less than 40" high    | BKDH2R            |
| Safety door latch, 3 point, door greater than 40" high | BKDH3R            |



Lug kit



BDTL175/400



# UL & cULus Technical Data for Fusible Disconnect Switches



## CFD30CC3 - FD800L3

### UL & cULus

| Catalog number                                                    | 3 pole                     | CFD30_3                         | CFD60J3                         | CFD100J3                               | CFD200J03                              | FD400J3                                | FD600J3                                | FD800L3                                |
|-------------------------------------------------------------------|----------------------------|---------------------------------|---------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|
| Approvals <sup>①</sup>                                            | 2 pole<br>3 pole<br>4 pole | N/A<br>UL98 & IEC<br>UL98 & IEC | N/A<br>UL98 & IEC<br>UL98 & IEC | UL98 & IEC<br>UL98 & IEC<br>UL98 & IEC | UL98 & IEC<br>UL98 & IEC<br>UL98 & IEC | UL98 & IEC<br>UL98 & IEC<br>UL98 & IEC | UL98 & IEC<br>UL98 & IEC<br>UL98 & IEC | UL98 & IEC<br>UL98 & IEC<br>UL98 & IEC |
| <b>Technical ratings</b>                                          | -40° to 40°C               |                                 |                                 |                                        |                                        |                                        |                                        |                                        |
| General purpose amp rating<br>pf = 0.7 – 0.8                      | <b>A</b>                   | <b>30</b>                       | <b>60</b>                       | <b>100</b>                             | <b>200</b>                             | <b>400</b>                             | <b>600</b>                             | <b>800</b>                             |
| Max operating voltage                                             | V                          | 600                             | 600                             | 600                                    | 600                                    | 600                                    | 600                                    | 600                                    |
| Max horsepower rating/<br>Max motor FLA current<br>pf = 0.4 – 0.5 |                            |                                 |                                 |                                        |                                        |                                        |                                        |                                        |
| Three phase                                                       |                            |                                 |                                 |                                        |                                        |                                        |                                        |                                        |
| 200 – 208V                                                        | HP/A                       | 5/16.8 – 7.5/24.2               | 15/46.2                         | 25/75.0                                | 50/143.0                               | 100/273 – 125/344                      | 150/396                                | 200/528                                |
| 240V                                                              | HP/A                       | 7.5/22.0                        | 15/42.0                         | 30/80.0                                | 60/145.0                               | 125/312.0                              | 200/480.0                              | 250/602.0                              |
| 480V                                                              | HP/A                       | 15/21.0                         | 30/40.0                         | 60/77.0                                | 125/156.0                              | 250/302.0                              | 400/477.0                              | 500/590.0                              |
| 600V                                                              | HP/A                       | 20/22.0                         | 50/52.0                         | 75/77.0                                | 150/144.0                              | 350/336.0                              | 500/472.0                              | 600/ —                                 |
| Single phase                                                      |                            |                                 |                                 |                                        |                                        |                                        |                                        |                                        |
| 120V                                                              | HP/A                       | 2/24.0                          | —                               | —                                      | —                                      | —                                      | —                                      | —                                      |
| 240V                                                              | HP/A                       | 3/17.0                          | —                               | —                                      | —                                      | —                                      | —                                      | —                                      |
| Short circuit rating with fuse                                    | kA                         | 200                             | 200                             | 200                                    | 200                                    | 200                                    | 200                                    | 200                                    |
| UL Fuse size                                                      | A                          | 30                              | 60                              | 100                                    | 200                                    | 400                                    | 600                                    | 800                                    |
| UL Fuse type                                                      |                            | J/CC                            | J                               | J/T                                    | J                                      | J/T                                    | J/T                                    | L                                      |
| <b>Endurances</b>                                                 |                            |                                 |                                 |                                        |                                        |                                        |                                        |                                        |
| Min. Electrical endurance,<br>pf = 0.75 – 0.80                    | operation cycles           | 6000                            | 6000                            | 6000                                   | 6000                                   | 1000                                   | 1000                                   | 500                                    |
| Mechanical endurance                                              | operation                  | 20,000                          | 20,000                          | 20,000                                 | 20,000                                 | 12,000                                 | 10,000                                 | 7000                                   |
| <b>Physical characteristics</b>                                   |                            |                                 |                                 |                                        |                                        |                                        |                                        |                                        |
| Weight                                                            | 3 pole lb                  | 1.54                            | 2.86                            | 3.30                                   | 5.9                                    | 17.2                                   | 37.48                                  | 37.48                                  |
|                                                                   | 4 pole lb                  | 1.98                            | 3.52                            | 3.96                                   | 7.5                                    | 19.4                                   | 46.3                                   | 46.3                                   |
| Dimension                                                         | 3 pole H in                | 3.82                            | 3.94                            | 5.66                                   | 6.5                                    | 7.87                                   | 11.42                                  | 11.42                                  |
|                                                                   | W in                       | 4.17                            | 5.63                            | 7.06                                   | 7.1                                    | 11.22                                  | 14.69                                  | 14.69                                  |
|                                                                   | D in                       | 4.21                            | 5.04                            | 5.09                                   | 5.2                                    | 8.11                                   | 9.21                                   | 9.21                                   |
| Shaft size square □                                               | in                         | .24 x .24                       | .24 x .24                       | .24 x .24                              | .24 x .24                              | .47 x .47                              | .47 x .47                              | .47 x .47                              |
|                                                                   | mm                         | 6 x 6                           | 6 x 6                           | 6 x 6                                  | 6 x 6                                  | 12 x 12                                | 12 x 12                                | 12 x 12                                |
| Switch operating torque<br>for rotary 3 pole switches             | lb. in.                    | 26.6                            | 35.5                            | 70.9                                   | 195                                    | 195                                    | 248                                    | 248                                    |
| <b>Terminal lug kits</b>                                          |                            |                                 |                                 |                                        |                                        |                                        |                                        |                                        |
| Wire range                                                        | AWG                        | Integral<br>#18 – 8             | Integral<br>#14 – 4             | BDTL24<br>#14 – 2/0                    | CDTL200<br>#4 – 300kcmil               | BDTL26<br>#2 – 600kcmil                | BDTL27<br>(2) #2 – 600 kcmil           | BDTL27<br>(2) #2 – 600 kcmil           |
| Torque:                                                           |                            |                                 |                                 |                                        |                                        |                                        |                                        |                                        |
| Wire tightening                                                   | lb. in.                    | 17                              | 30                              | 120                                    | 275                                    | 500                                    | 375                                    | 375                                    |
| Lug mounting                                                      | lb. in.                    | N/A                             | N/A                             | 50                                     | 150                                    | 480                                    | 500                                    | 480                                    |
| <b>Auxiliary contacts</b>                                         |                            |                                 |                                 |                                        |                                        |                                        |                                        |                                        |
| NEMA ratings, AC                                                  |                            | —                               | A600                            | A600                                   | A600                                   | A600                                   | A600                                   | A600                                   |
| AC rated voltage                                                  | VAC                        | 250                             | 600                             | 600                                    | 600                                    | 600                                    | 600                                    | 600                                    |
| AC thermal rated current                                          | A                          | 6                               | 10                              | 10                                     | 10                                     | 10                                     | 10                                     | 10                                     |
| AC maximum volt ampere making                                     | VA                         | —                               | 7200                            | 7200                                   | 7200                                   | 7200                                   | 7200                                   | 7200                                   |
| AC maximum volt ampere breaking                                   | VA                         | —                               | 720                             | 720                                    | 720                                    | 720                                    | 720                                    | 720                                    |
| NEMA ratings, DC                                                  |                            | —                               | P300                            | R300                                   | R300                                   | P600                                   | P600                                   | P600                                   |
| DC rated voltage                                                  | VDC                        | —                               | 300                             | 300                                    | 300                                    | 600                                    | 600                                    | 600                                    |
| DC thermal rated current                                          | A                          | —                               | 1                               | 1                                      | 1                                      | 5                                      | 5                                      | 5                                      |
| DC maximum make break current                                     | A                          | —                               | 28                              | 28                                     | 28                                     | 138                                    | 138                                    | 138                                    |
| Torque:                                                           |                            |                                 |                                 |                                        |                                        |                                        |                                        |                                        |
| Wire tightening                                                   | lb. in.                    | 7                               | 7                               | 7                                      | 7                                      | 7                                      | 7                                      | 7                                      |
| Wire range                                                        | AWG                        | #22 – 14/#18 – 14               | #18 – 14                        | #22 – 14                               | #18 – 14                               | #22 – 14                               | #22 – 14                               | #22 – 14                               |

Fusible

Non-Fused

Enclosed Fused

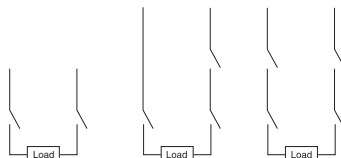
Enclosed Non-Fused

<sup>①</sup> The following UL Listed switches are also cULus approved.

**CFD30CC3 - FD800L3**

**IEC**

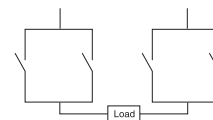
| Catalog number                                                          | 3 pole              | CFD30_3 | CFD60J3         | CFD100J3         | CFD200J03 | FD400J3        | FD600J3        | FD800L3 |
|-------------------------------------------------------------------------|---------------------|---------|-----------------|------------------|-----------|----------------|----------------|---------|
| Technical ratings                                                       | -40° to 40°C        |         |                 |                  |           |                |                |         |
| Rated insulation voltage <sup>①</sup>                                   |                     |         |                 |                  |           |                |                |         |
| Pollution degree 3 <sup>②</sup> V                                       | 1000                | 1000    | 1000            | 1000             | 1000      | 1000           | 1000           |         |
| Dielectric strength                                                     | 50Hz/60Hz, 1 min kV | 10      | 10              | 10               | 10        | 10             | 10             | 10      |
| Rated impulse withstand voltage                                         | kV                  | 12      | 12              | 12               | 12        | 12             | 12             | 12      |
| Rated thermal current, Ith/<br>max. fuse power dissipation <sup>③</sup> |                     |         |                 |                  |           |                |                |         |
| AC 20/DC 20 open <sup>④</sup>                                           | A/W                 | 32/3.5  | 63/7.5          | 160/12           | 200/17    | 400/45         | 630/60         | 800/65  |
| 40°C enclosed                                                           | A/W                 | 32/3.5  | 63/7.5          | 160/10, 135/12   | 200/17    | 400/34, 360/37 | 600/45, 570/50 | 720/55  |
| Enclosed with solid links                                               | A/W                 | 32      | 85              | 175              | 280       | 450            | 700            | 900     |
| with minimum cable cross section Cu                                     | mm <sup>2</sup>     | 6       | 16              | 70               | 95        | 240            | 2 x 185        | 2 x 240 |
| Rated operational voltage AC 20 and DC 20V                              |                     | 1000    | 1000            | 1000             | 1000      | 1000           | 1000           | 1000    |
| <b>AC Rated operational currents</b>                                    |                     |         |                 |                  |           |                |                |         |
| AC 21A                                                                  | 500V A              | 32      | 63              | 160              | 200       | 400            | 630            | 800     |
|                                                                         | 690V A              | 32      | 63              | 160              | 200       | 400            | 630            | 800     |
| AC 22A                                                                  | 500V A              | 32      | 63              | 160              | 200       | 400            | 630            | 800     |
|                                                                         | 690V A              | 32      | 63              | 160              | 200       | 400            | 630            | 800     |
| AC 23A                                                                  | 500V A              | 32      | 63              | 160              | 200       | 400            | 630            | 720     |
|                                                                         | 690V A              | 32      | 63 <sup>⑤</sup> | 160 <sup>⑥</sup> | 200       | 400            | 630            | 720     |
| <b>DC Rated operational currents/poles in series</b>                    |                     |         |                 |                  |           |                |                |         |
| DC21A                                                                   | 48V <sup>⑦</sup> A  | 32/2    | Ⓢ               | Ⓢ                | 200/1     | 400/2          | 630/2          | 800/2   |
|                                                                         | 110V A              | 32/2    | Ⓢ               | Ⓢ                | 200/1     | 400/2          | 630/2          | 800/2   |
|                                                                         | 220V A              | 32/2    | Ⓢ               | Ⓢ                | 200/1     | 400/2          | 630/2          | 800/2   |
|                                                                         | 440V A              | 32/4    | Ⓢ               | Ⓢ                | 200/2     | 400/2          | 630/2          | 800/2   |
|                                                                         | 750V A              | —       | Ⓢ               | Ⓢ                | 180/4     | 400/3          | 630/1          | 800/3   |
|                                                                         | 1000V A             | —       | Ⓢ               | Ⓢ                | —         | 400/4          | 630            | 800/4   |
| DC22A                                                                   | 48V <sup>⑦</sup> A  | 32/2    | Ⓢ               | Ⓢ                | 200/1     | 400/2          | 630/2          | 800/2   |
|                                                                         | 110V A              | 32/2    | Ⓢ               | Ⓢ                | 200/1     | 400/2          | 630/2          | 800/2   |
|                                                                         | 220V A              | 32/2    | Ⓢ               | Ⓢ                | 200/1     | 400/2          | 630/2          | 800/2   |
|                                                                         | 440V A              | 32/4    | Ⓢ               | Ⓢ                | 200/2     | 400/2          | 630/2          | 800/2   |
|                                                                         | 750V A              | —       | Ⓢ               | Ⓢ                | 180/4     | 400/3          | 630/3          | 800/3   |
|                                                                         | 1000V A             | —       | Ⓢ               | Ⓢ                | —         | 400/4          | 630/4          | 800/4   |
| DC23A                                                                   | 48V <sup>⑦</sup> A  | 32/2    | Ⓢ               | Ⓢ                | 200/1     | 400/2          | 630/2          | 800/2   |
|                                                                         | 110V A              | 32/2    | Ⓢ               | Ⓢ                | 200/1     | 400/2          | 630/2          | 800/2   |
|                                                                         | 220V A              | 32/2    | Ⓢ               | Ⓢ                | 200/1     | 400/2          | 630/2          | 800/2   |
|                                                                         | 440V A              | 32/4    | Ⓢ               | Ⓢ                | 200/2     | 400/2          | 630/2          | 800/2   |
|                                                                         | 750V A              | —       | Ⓢ               | Ⓢ                | 180/4     | 400/3          | 630/3          | 800/3   |
|                                                                         | 1000V A             | —       | Ⓢ               | Ⓢ                | —         | —              | 630/4          | 800/4   |
| <b>Rated operational power AC23A</b>                                    |                     |         |                 |                  |           |                |                |         |
| 230V                                                                    | kW                  | 8       | 18.5            | 45               | 60        | 110            | 180            | 200     |
| 400V                                                                    | kW                  | 14      | 30              | 80               | 110       | 210            | 315            | 350     |
| 415V                                                                    | kW                  | 15      | 30              | 90               | 110       | 230            | 340            | 380     |
| 500V                                                                    | kW                  | 18      | 37              | 110              | 140       | 280            | 400            | 470     |
| 690V                                                                    | kW                  | 25      | 60              | 132              | 190       | 330            | 540            | 600     |



2 poles  
in series

3 poles  
in series

4 poles  
in series



2 + 2 Parallel contacts in series

① 1000V, IEC 408.

② Ambient temperature 60°C: derating 20 percent. Mounting on ceiling: derating 10 percent. Mounting on wall, horizontal fuses: derating 8 percent.

③ The ambient air temperature does not exceed +40°C and its average over a period of 24h does not exceed +35°C according to IEC 947.

④ For 30A switches, use 2 parallel contacts in series.

⑤ Available on request.

⑥ IEC 947-3, utilization category B, infrequent operation.

⑦ Pollution degree 3: Conductive pollution occurs, or dry, non-conductive pollution occurs, which becomes conductive due to condensation.

# IEC Technical Data for Fusible Disconnect Switches



## CFD30CC3 - FD800L3

### IEC

| Catalog number                                                                      | 3 pole           | CFD30_3                  | CFD60J3          | CFD100J3       | CFD200J03 | FD400J3  | FD600J3      | FD800L3      |
|-------------------------------------------------------------------------------------|------------------|--------------------------|------------------|----------------|-----------|----------|--------------|--------------|
| Rated breaking capacity                                                             |                  |                          |                  |                |           |          |              |              |
| in category AC-23A 500V                                                             | A                | 256                      | 504              | 1280           | 1600      | 3200     | 5760         | 5760         |
| 690V                                                                                | A                | 256                      | 504              | 1280           | 1600      | 3200     | 5760         | 5760         |
| Rated breaking capacity/poles in series                                             |                  |                          |                  |                |           |          |              |              |
| in category DC-23 <220V                                                             | A                | 128/2                    | —                | —              | 1000/2    | 1600/2   | 3200/2       | 3200/2       |
| 440V                                                                                | A                | 128/4                    | —                | —              | 1000/2    | 1600/2   | 3200/2       | 3200/2       |
| 500 – 750V                                                                          | A                | —                        | —                | —              | 1000/3    | 1600/3   | 3200/3       | 3200/3       |
| 1000V                                                                               | A                | —                        | —                | —              | —         | —        | 3200/4       | 3200/4       |
| Rated conditional short-circuit current r.m.s.®                                     |                  |                          |                  |                |           |          |              |              |
| 80 kA, 415V                                                                         | kA               | 9                        | 17               | 22             | 35        | 40       | 75           | 75           |
| 100 kA, 500 V                                                                       | kA               | 7.5                      | 17               | 22             | 37.5      | 40       | 75           | 75           |
| 50 kA, 690 V                                                                        | kA               | 6                        | 13               | 15             | 35        | 35       | 60           | 60           |
| Rated short time withstand current, 1s.                                             | kA               | 1                        | 2.5              | 5              | 8         | 10       | 16           | 16           |
| Rated capacitor power                                                               |                  |                          |                  |                |           |          |              |              |
| – The capacitor rating of the fusible disconnect switch is limited by the fuse link |                  |                          |                  |                |           |          |              |              |
| 400 V                                                                               | kVar             | 15                       | 30               | —              | —         | 180      | 250          | 310          |
| 415V                                                                                | kVar             | 15                       | 32               | —              | —         | 200      | 270          | 340          |
| 690V                                                                                | kVar             | 25                       | 50               | —              | —         | 325      | 450          | 550          |
| Power loss/pole                                                                     |                  |                          |                  |                |           |          |              |              |
| with rated current, without fuse                                                    | W                | 2                        | 4                | 9              | 8         | 30       | 55           | 77           |
| Mechanical endurance                                                                | operations       | 20,000                   | 20,000           | 20,000         | 20,000    | 16,000   | 10,000       | 10,000       |
| Fuse types, IEC 269-2                                                               | DIN 43620        | —                        | 000, 00          | 000, 00        | —         | 0 – 2    | 3            | 3            |
|                                                                                     | NFC              | 10 x 38, 14 x 51         | 14 x 51, 22 x 58 | 22 x 58        | —         | 0 – 2    | 3            | —            |
|                                                                                     | BS 88            | A1, A2, F1               | A2 – A3          | A2 – A4        | B1 – B2   | B1 – B4  | C1 – C2      | C1 – C3      |
| size/distance of link bolts                                                         |                  | M4/44.5(A1)<br>M5/73(A2) | M5/73            | M5/73<br>M8/94 | M6/111    | M3/111   | M10/133, 184 | M10/133, 184 |
| Physical characteristics                                                            |                  |                          |                  |                |           |          |              |              |
| Weight                                                                              | 3 pole           | 0.7                      | 1.3              | 1.5            | 2.6       | 7.8      | 17.0         | 17.0         |
|                                                                                     | 4 pole           | 0.9                      | 1.6              | 1.8            | 7.9       | 8.8      | 21.0         | 21.0         |
| Dimension                                                                           | 3 pole           | H                        | 97               | 100            | 144       | 198.5    | 226          | 282          |
|                                                                                     |                  | W mm                     | 106              | 174            | 179       | 181.5    | 284          | 373          |
|                                                                                     |                  | D mm                     | 107              | 123            | 129       | 132      | 198          | 221          |
| Shaft size                                                                          | square □ mm      | 6 x 6                    | 6 x 6            | 6 x 6          | 6 x 6     | 12 x 12  | 12 x 12      | 12 x 12      |
| Terminals                                                                           |                  |                          |                  |                |           |          |              |              |
| Built-in terminal size mm <sup>2</sup>                                              |                  | 0.5 – 10                 | 2.5 – 25         | —              | —         | —        | —            | —            |
| Terminal bolt size, metric thread                                                   |                  |                          |                  |                |           |          |              |              |
| diameter x length mm                                                                | —                | —                        | —                | M6 x 20        | M8 x 25   | M10 x 40 | M12 x 40     | M12 x 40     |
| Terminal bolt tightening torque                                                     | Nm               | 2                        | 3.5              | 6 – 9          | 15 – 22   | 30 – 44  | 50 – 75      | 50 – 75      |
| Fuse-links bolts tightening torque                                                  | Nm               | 2                        | 3.5              | 3.5 – 5        | 4         | 15       | 40           | 40           |
| Operating torque                                                                    | Nm               | 3                        | 4                | 8              | 7         | 22       | 28           | 28           |
| Auxiliary contacts                                                                  |                  | ①                        | ②                | ③              | ④         | ⑤        |              |              |
| Ratings according to IEC 947-5-1                                                    |                  |                          |                  |                |           |          |              |              |
| Rated voltage, Ui                                                                   | VAC              | 690                      | 690              | 690            | 690       | 690      | 690          | 690          |
| Thermal current, I <sub>th</sub>                                                    | A                | 10                       | 16               | 16             | 16        | 10       | 10           | 10           |
| AC12 / DC12, I <sub>e</sub>                                                         | U <sub>e</sub> = | — / 6                    | —                | —              | —         | —        | —            | —            |
| 24V                                                                                 | A                | — / 6                    | —                | —              | —         | 8 / —    | 8 / —        | 8 / —        |
| 120V                                                                                | A                | —                        | —                | —              | —         | — / 1.1  | — / 1.1      | — / 1.1      |
| 125V                                                                                | A                | —                        | —                | —              | —         | 6 / —    | 6 / —        | 6 / —        |
| 230V                                                                                | A                | —                        | 6 / —            | 6 / —          | 6 / —     | — / 0.55 | — / 0.55     | — / 0.55     |
| 250V                                                                                | A                | 3 / 0.1                  | —                | —              | —         | 4 / —    | 4 / —        | 4 / —        |
| 400V                                                                                | A                | —                        | 4 / —            | 4 / —          | 4 / —     | 4 / —    | 4 / —        | 4 / —        |
| 415V                                                                                | A                | —                        | —                | —              | —         | — / 0.31 | — / 0.31     | — / 0.31     |
| 440V                                                                                | A                | 2 / —                    | —                | —              | —         | 3 / —    | 3 / —        | 3 / —        |
| 480V                                                                                | A                | —                        | —                | —              | —         | 3 / 0.27 | 3 / 0.27     | 3 / 0.27     |
| 500V                                                                                | A                | —                        | —                | —              | —         | — / 0.2  | — / 0.2      | — / 0.2      |
| 600V                                                                                | A                | —                        | —                | —              | —         | 2 / —    | 2 / —        | 2 / —        |
| 690V                                                                                | A                | —                        | 2 / —            | 2 / —          | 2 / —     | —        | —            | —            |

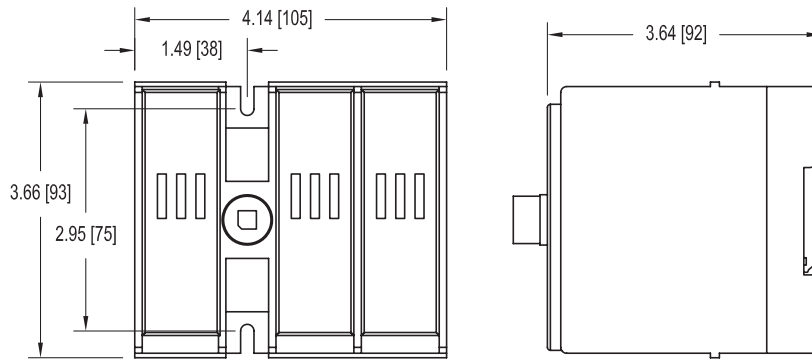
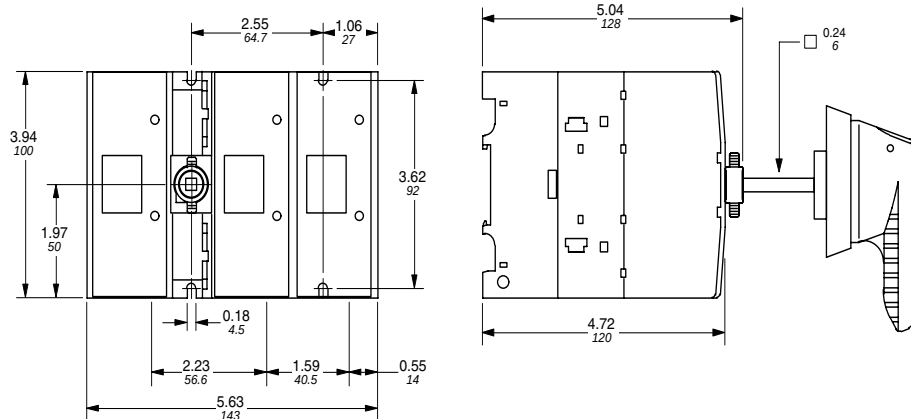
Fusible

Non-Fused

Enclosed Fused

Enclosed Non-Fused

① AC15 / DC12, according to IEC 947-5-1  
 ② AC15 / DC13, according to IEC 947-5-1  
 ③ AC15, according to IEC 947-5-1  
 ④ AC11 / DC11, according to IEC 947-5-1  
 ⑤ Values shown are corresponding max. allowed cut-off current, peak-values per single phase fuse tests.

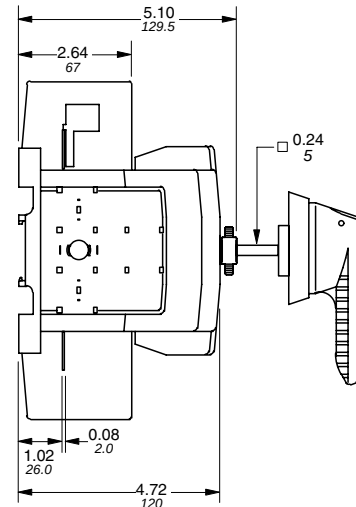
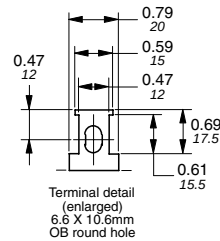
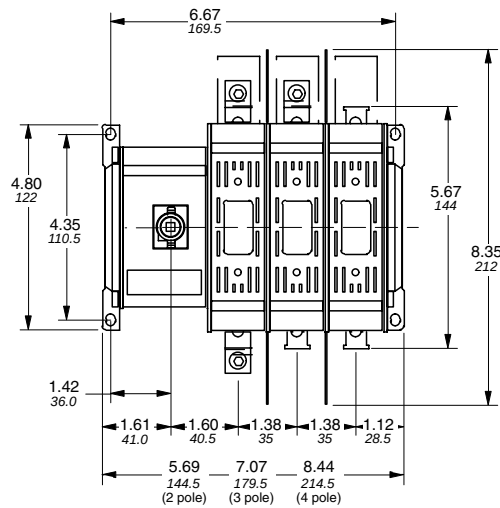
**CFD30AJ3 - CFD60J3****CFD30AJ3 & CFD30ACC3****CFD60J3**

# Approximate Dimensions for Fusible Disconnect Switches

**COOPER** Bussmann

**CFD100J3 – CFD200J03**

CFD100J3



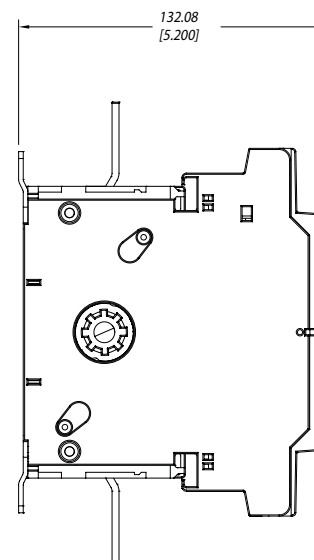
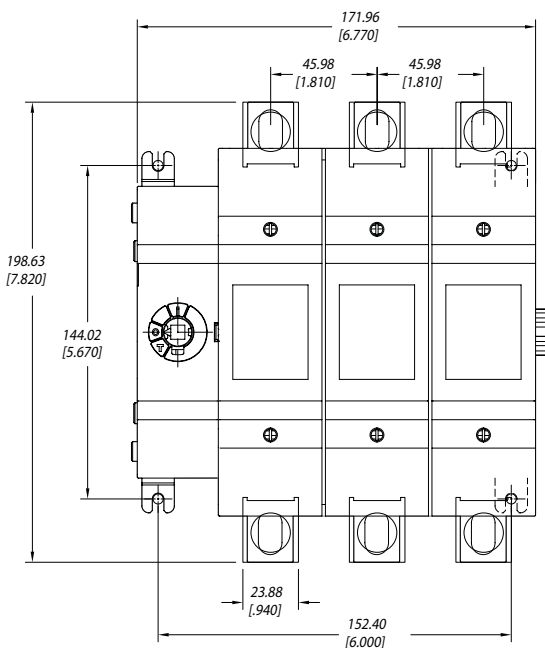
Fusible

Non-Fused

Enclosed Fused

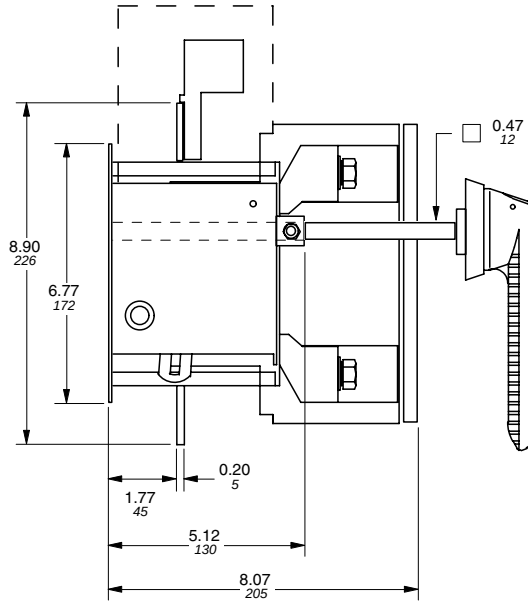
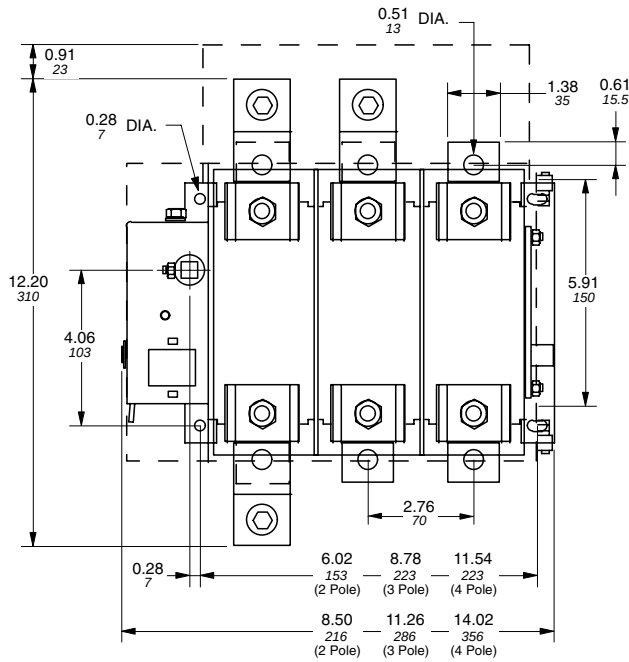
Enclosed Non-Fused

CFD200J03

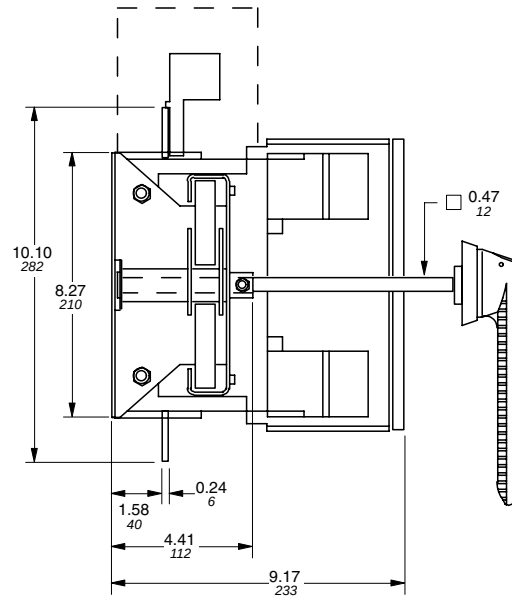
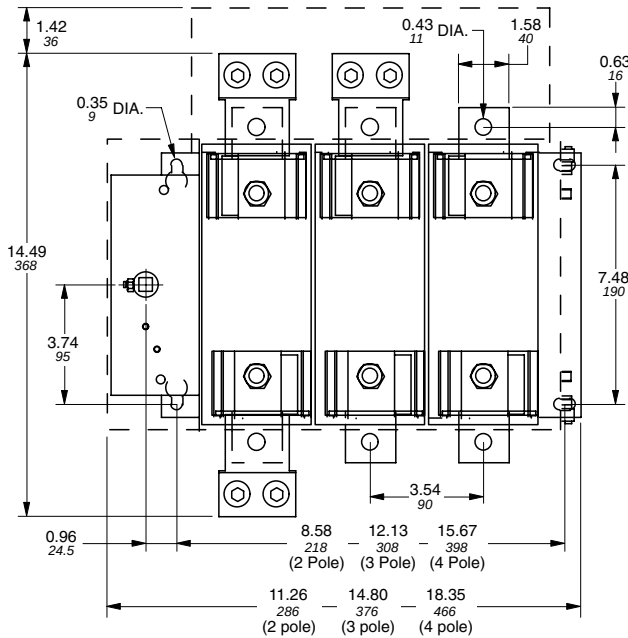


FD400J3 – FD800J3

FD400J3



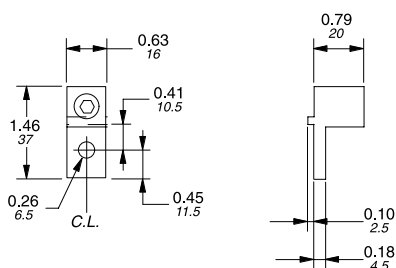
FD600J3 & FD800L3



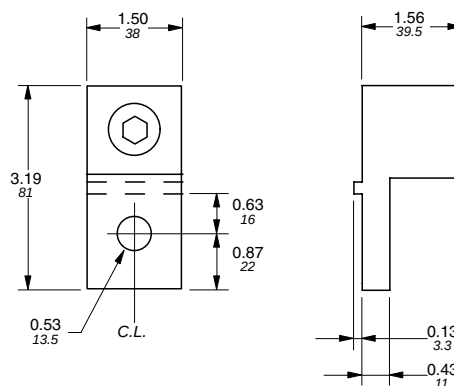
# Approximate Dimensions for Terminal Lugs



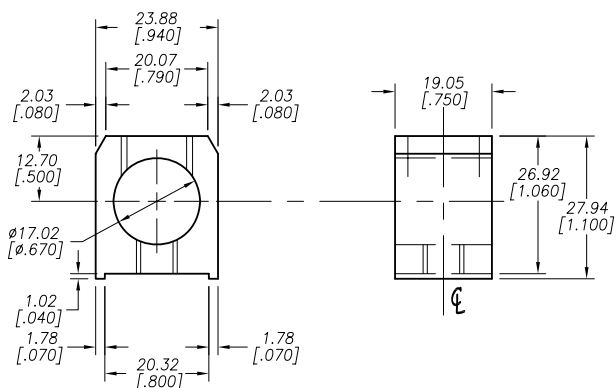
**BDTL24 — for use with 100A switches**



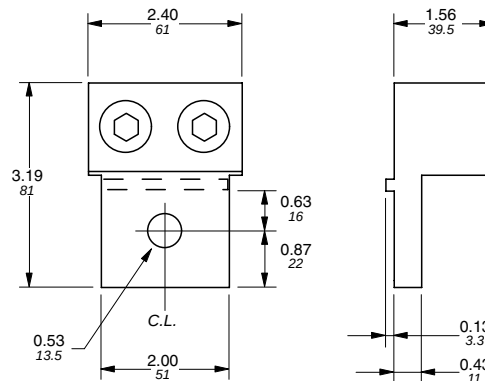
**BDTL26 — for use with 400A switches**



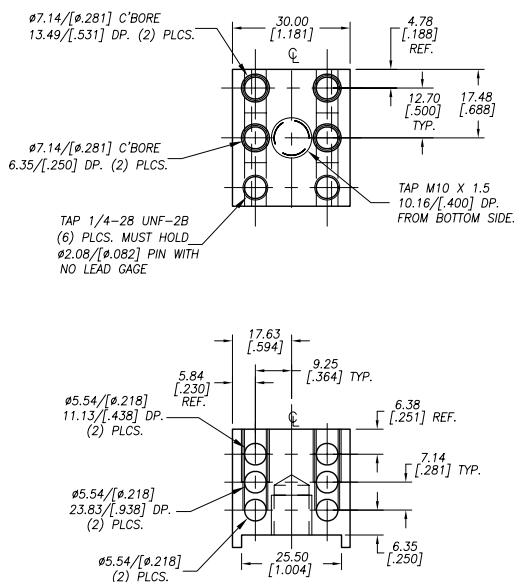
**CDTL200 — for use with 200A switches**



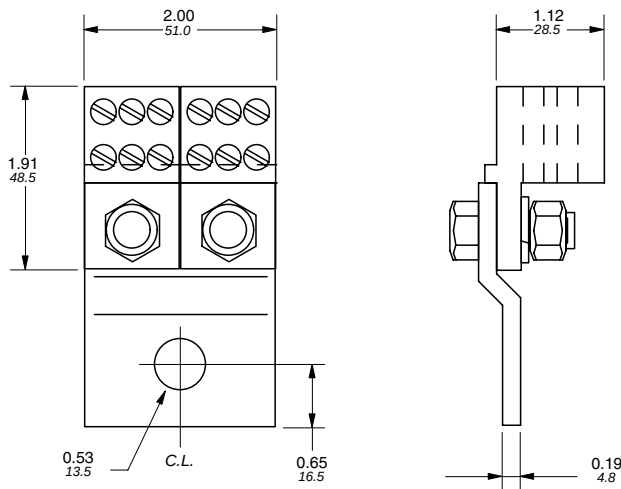
**BDTL27 — for use with 600A switches**



**CDTL206 — power distribution lug, for 200A switch**



**BDTL175/400 — distributor lug kit for use with 600A & 800A switches**



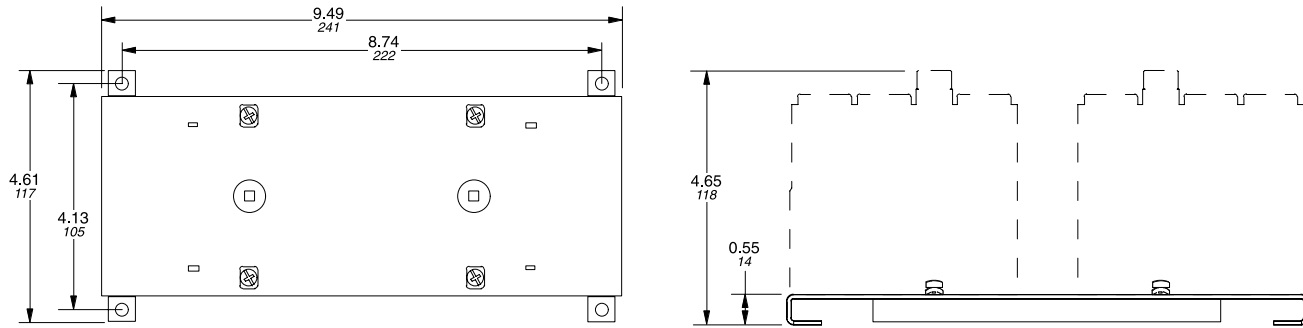
Fusible

Non-Fused

Enclosed Fused

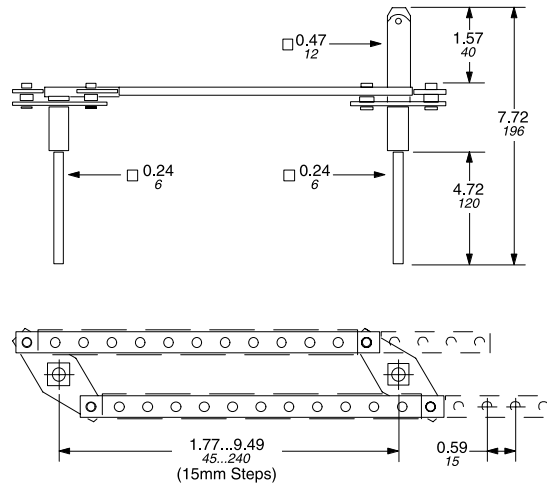
Enclosed Non-Fused

## 30A 6 pole — BDZW6



Fusible

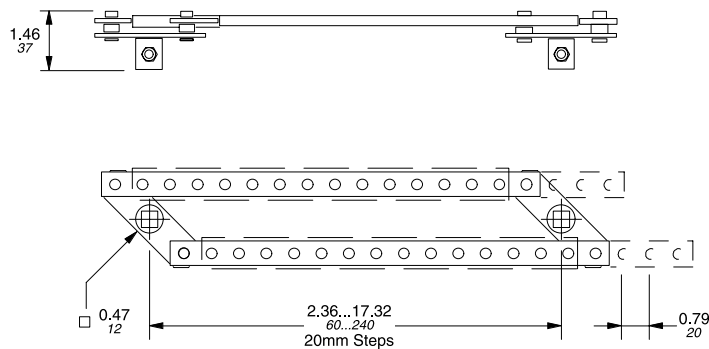
## 60A - 200A 6 or 8 pole — BDZW2



Non-Fused

Enclosed Fused

## 400 - 800A 6 or 8 pole — BDZW9



Enclosed Non-Fused



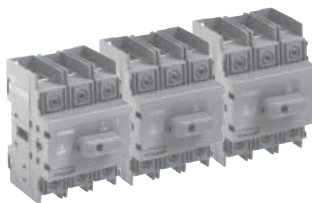
# Overview for Non-Fusible Disconnect Switches



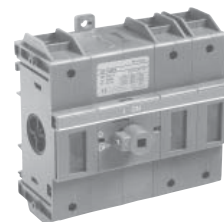
## CDNF16 - CDFNF100A3



CDNF16A3, CDFNF25A3, CDFNF32A3



CDNF30A3, CDFNF60A3, CDFNF100A3



CDNF160

| Catalog number                                                       | 3 pole      | CDNF16A3  | CDNF25A3  | CDNF32A3  | CDNF45A3  | CDNF63A3  | CDNF30A3  | CDNF60A3  | CDNF100A3  |  |
|----------------------------------------------------------------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|--|
| <b>General purpose amp rating</b>                                    | <b>A</b>    | <b>16</b> | <b>25</b> | <b>40</b> | <b>60</b> | <b>80</b> | <b>30</b> | <b>60</b> | <b>100</b> |  |
| Approvals <sup>①</sup>                                               |             |           |           |           |           |           |           |           |            |  |
|                                                                      | 2 pole      | N/A       | N/A       | N/A       | N/A       | N/A       | N/A       | N/A       | N/A        |  |
|                                                                      | 3 pole      | UL508     | UL508     | UL508     | UL508     | UL508     | UL98      | UL98      | UL98       |  |
|                                                                      | 4 pole      | UL508     | UL508     | UL508     | UL508     | UL508     | UL98      | UL98      | UL98       |  |
| <b>Technical ratings</b>                                             |             |           |           |           |           |           |           |           |            |  |
| <b>UL, cULus<sup>②</sup></b>                                         |             |           |           |           |           |           |           |           |            |  |
| Max operating voltage                                                | V           | 600       | 600       | 600       | 600       | 600       | 600       | 600       | 600        |  |
| Max horsepower rating                                                |             |           |           |           |           |           |           |           |            |  |
| Three phase                                                          |             |           |           |           |           |           |           |           |            |  |
| 200 – 208V                                                           | HP          | 3         | 7.5       | 10        | 15        | 20        | 10        | 20        | 25         |  |
| 240V                                                                 | HP          | 5         | 7.5       | 10        | 15        | 20        | 10        | 20        | 30         |  |
| 480V                                                                 | HP          | 10        | 15        | 20        | 30        | 40        | 20        | 40        | 50         |  |
| 600V                                                                 | HP          | 10        | 20        | 25        | 30        | 40        | 30        | 40        | 50         |  |
| Single phase                                                         |             |           |           |           |           |           |           |           |            |  |
| 120V                                                                 | HP          | 1/2       | 3/4       | 1         | 2         | 2         | 2         | 3         | 5          |  |
| 240V                                                                 | HP          | 1.5       | 2         | 3         | 5         | 5         | 5         | 7.5       | 15         |  |
| <b>Technical ratings</b>                                             |             |           |           |           |           |           |           |           |            |  |
| <b>IEC<sup>③</sup></b>                                               |             |           |           |           |           |           |           |           |            |  |
| Rated insulation and operational voltage, AC20 and DC20 <sup>④</sup> | V           | 750       | 750       | 750       | 750       | 750       | 750       | 750       | 750        |  |
| Rated thermal current, I <sub>th</sub>                               |             |           |           |           |           |           |           |           |            |  |
| AC 20/DC 20 open                                                     | A           | 25        | 32        | 40        | 63        | 80        | 40        | 63        | 115        |  |
| AC 20/DC 20 enclosed                                                 | A           | 25        | 32        | 40        | 63        | 80        | 40        | 63        | 115        |  |
| AC 21A 500V                                                          | A           | 16        | 25        | 32        | 63        | 80        | 40        | 63        | 100        |  |
| 690V                                                                 | A           | 16        | 25        | 32        | 63        | 80        | 40        | 63        | 100        |  |
| Rated operational power AC23                                         |             |           |           |           |           |           |           |           |            |  |
| 400/415V                                                             | kW          | 7.5       | 9         | 11        | 22        | 37        | 15        | 18.5      | 37         |  |
| 690V                                                                 | kW          | 7.5       | 9         | 11        | 15        | 18.5      | 15        | 15        | 37         |  |
| <b>Physical characteristics</b>                                      |             |           |           |           |           |           |           |           |            |  |
| Weight <sup>④</sup>                                                  | 3 pole lb   | 0.24      | 0.24      | 0.24      | 0.59      | 0.59      | 0.79      | 0.79      | 0.79       |  |
| Dimension                                                            | 3 pole H in | 2.68      | 2.68      | 2.68      | 3.60      | 3.60      | 3.94      | 3.94      | 3.94       |  |
|                                                                      | W in        | 1.38      | 1.38      | 1.38      | 2.07      | 2.07      | 2.76      | 2.76      | 2.76       |  |
|                                                                      | D in        | 2.20      | 2.20      | 2.20      | 2.85      | 2.85      | 2.95      | 2.95      | 2.95       |  |
| <b>Accessories</b>                                                   |             |           |           |           |           |           |           |           |            |  |
| Terminal lug kit                                                     |             | Integral  | Integral  | Integral  | Integral  | Integral  | Integral  | Integral  | Integral   |  |
| Terminal shroud                                                      |             | •         | •         | •         | •         | •         | •         | •         | •          |  |
| Auxiliary contact                                                    |             | •         | •         | •         | •         | •         | •         | •         | •          |  |
| Handle UL/NEMA type                                                  |             |           |           |           |           |           |           |           |            |  |
| Type 1, 3R, 12                                                       |             | •         | •         | •         | •         | •         | •         | •         | •          |  |
| Type 1, 3R, 4, 4X, 12                                                |             | •         | •         | •         | •         | •         | •         | •         | •          |  |
| Handle type                                                          |             |           |           |           |           |           |           |           |            |  |
| Selector                                                             |             | •         | •         | •         | •         | •         | —         | —         | —          |  |
| Pistol                                                               |             | •         | •         | •         | •         | •         | •         | •         | •          |  |
| Conversion kits                                                      |             |           |           |           |           |           |           |           |            |  |
| 6 pole                                                               |             | •         | •         | •         | •         | •         | •         | •         | •          |  |
| Transfer                                                             |             | •         | •         | •         | •         | •         | •         | •         | •          |  |
| Bypass                                                               |             | •         | •         | •         | •         | •         | •         | •         | •          |  |
| Mechanical interlock                                                 |             | •         | •         | •         | •         | •         | •         | •         | —          |  |
| Electrical interlock                                                 |             | —         | —         | —         | —         | —         | —         | —         | —          |  |

• = Available  
— = Not available

UL Listed, cULus approved, IEC rated, CE marked

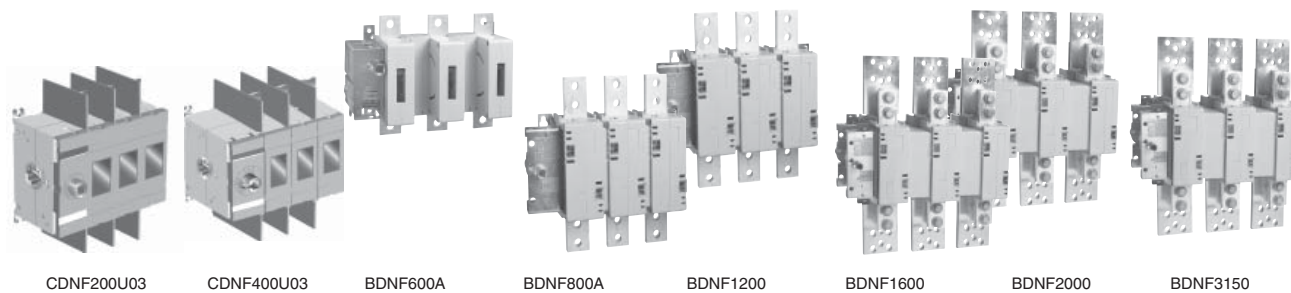
- ① UL Listed switches are also cULus approved.  
② For complete technical information please see page 58 & 59.  
③ 1000V, IEC 408.  
④ Switch only

Fusible

Non-Fused

Enclosed Fused

Enclosed Non-Fused

**CDNF200U03 – BDNF3150**

| Catalog number                                                       | 3 pole    | CDNF200U03 | CDNF400U03 | BDNF600A   | BDNF800A   | BDNF1200    | BDNF1600    | BDNF2000    | BDNF3150    |
|----------------------------------------------------------------------|-----------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|
| <b>General purpose amp rating</b>                                    | <b>A</b>  | <b>200</b> | <b>400</b> | <b>600</b> | <b>800</b> | <b>1200</b> | <b>1600</b> | <b>2000</b> | <b>3150</b> |
| Approvals <sup>①</sup>                                               |           |            |            |            |            |             |             |             |             |
|                                                                      | 2 pole    | UL98 & IEC | UL98 & IEC | UL98 & IEC | UL98 & IEC | UL98 & IEC  | UL98 & IEC  | UL98 & IEC  | IEC         |
|                                                                      | 3 pole    | UL98 & IEC | UL98 & IEC | UL98 & IEC | UL98 & IEC | UL98 & IEC  | UL98 & IEC  | UL98 & IEC  | IEC         |
|                                                                      | 4 pole    | IEC        | UL98 & IEC | UL98 & IEC | IEC        | IEC         | IEC         | IEC         | IEC         |
| <b>Technical ratings</b>                                             |           |            |            |            |            |             |             |             |             |
| <b>UL, cULus<sup>②</sup></b>                                         |           |            |            |            |            |             |             |             |             |
| Max operating voltage                                                | V         | 600        | 600        | 600        | 600        | 600         | 600         | 600         | 600         |
| Max horsepower rating                                                |           |            |            |            |            |             |             |             |             |
| Three phase                                                          |           |            |            |            |            |             |             |             |             |
| 200 – 208V                                                           | HP        | 60         | 100        | 150        | 200        | —           | —           | —           | —           |
| 240V                                                                 | HP        | 75         | 125        | 200        | 250        | —           | —           | —           | —           |
| 480V                                                                 | HP        | 150        | 250        | 400        | 500        | —           | —           | —           | —           |
| 600V                                                                 | HP        | 200        | 350        | 500        | 600        | —           | —           | —           | —           |
| Single phase                                                         |           |            |            |            |            |             |             |             |             |
| 120V                                                                 | HP        | —          | —          | —          | —          | —           | —           | —           | —           |
| 240V                                                                 | HP        | —          | —          | —          | —          | —           | —           | —           | —           |
| <b>Technical ratings</b>                                             |           |            |            |            |            |             |             |             |             |
| <b>IEC<sup>③</sup></b>                                               |           |            |            |            |            |             |             |             |             |
| Rated insulation and operational voltage, AC20 and DC20 <sup>④</sup> | V         | 1000       | 1000       | 1000       | 1000       | 1000        | 1000        | 1000        | 1000        |
| Rated thermal current, I <sub>th</sub>                               |           |            |            |            |            |             |             |             |             |
| AC 20/DC 20 open                                                     | A         | 250        | 400        | 800        | 1250       | 1600        | 2500        | 2500        | 3150        |
| AC 20/DC 20 enclosed                                                 | A         | 250        | 400        | 720        | 1250       | 1600        | 2300        | 2300        | 2600        |
| AC 21A 500V                                                          | A         | 250        | 400        | 800        | 1250       | 1600        | 2500        | 2500        | 3150        |
| 690V                                                                 | A         | 250        | 400        | 800        | 1250       | 1600        | 2500        | 2500        | 3150        |
| Rated operational power AC23                                         |           |            |            |            |            |             |             |             |             |
| 400/415V                                                             | kW        | 132        | 220        | 355        | 400        | 400         | 400         | 400         | 400         |
| 690V                                                                 | kW        | 240        | 355        | 355        | —          | —           | —           | —           | —           |
| <b>Physical characteristics</b>                                      |           |            |            |            |            |             |             |             |             |
| Weight <sup>⑤</sup>                                                  | 3 pole lb | 2.90       | 5.70       | 13.66      | 35.9       | 38.55       | 127.7       | 127.7       | 127.7       |
| Dimension                                                            | 3 pole    |            |            |            |            |             |             |             |             |
|                                                                      | H in      | 6.69       | 8.66       | 11.77      | 19.09      | 19.09       | 25.04       | 25.04       | 25.04       |
|                                                                      | W in      | 6.67       | 8.70       | 11.93      | 14.29      | 14.29       | 18.43       | 18.43       | 18.43       |
|                                                                      | D in      | 3.30       | 4.15       | 5.12       | 4.92       | 4.92        | 10.67       | 10.67       | 10.67       |
| <b>Accessories</b>                                                   |           |            |            |            |            |             |             |             |             |
| Terminal lug kit                                                     |           | CDTL200    | CDTL400    | BDTL27     | BDTL30     | BDTL28      | BDTL28      | BDTL28/2    | BDTL28/2    |
| Terminal shroud                                                      |           | •          | •          | •          | •          | •           | —           | —           | —           |
| Auxiliary contact                                                    |           | •          | •          | •          | •          | •           | •           | •           | •           |
| Handle UL/NEMA type                                                  |           |            |            |            |            |             |             |             |             |
| Type 1, 3R, 12                                                       |           | •          | •          | •          | •          | •           | •           | •           | •           |
| Type 1, 3R, 4, 4X, 12                                                |           | •          | •          | •          | •          | •           | •           | •           | •           |
| Handle type                                                          |           |            |            |            |            |             |             |             |             |
| Selector                                                             |           | —          | —          | —          | —          | —           | —           | —           | —           |
| Pistol                                                               |           | •          | •          | •          | •          | •           | •           | •           | •           |
| Conversion kits                                                      |           |            |            |            |            |             |             |             |             |
| 6 pole                                                               |           | •          | •          | •          | •          | •           | —           | —           | —           |
| Transfer                                                             |           | •          | •          | •          | •          | •           | —           | —           | —           |
| Bypass                                                               |           | •          | •          | •          | •          | •           | —           | —           | —           |
| Mechanical interlock                                                 |           | •          | •          | •          | •          | •           | •           | •           | •           |
| Electrical interlock                                                 |           | •          | •          | •          | •          | •           | •           | •           | •           |

S = Standard feature

• = Available

— = Not available

① UL Listed switches are also cULus approved.

② For complete technical information please see page 58 &amp; 59.

③ 1000V, IEC 408.

④ Switch only

**UL Listed, cULus approved, IEC rated, CE marked**

16A – 100A

# for Non-Fusible Disconnect Switches



For a complete assembly,  
please select one of each:

- 1 switch
- 1 handle
- 1 shaft



CDNF63A3



BDS85S



CDBH3S

## 16 – 100 Amp switches, 600V, 3 pole<sup>①</sup>

| UL<br>general<br>purpose<br>amp rating | IEC<br>AC21<br>amp<br>rating | Maximum horsepower rating |      |             |      |      |      | Terminal lugs |           | Catalog<br>number |
|----------------------------------------|------------------------------|---------------------------|------|-------------|------|------|------|---------------|-----------|-------------------|
|                                        |                              | Single phase              |      | Three phase |      |      |      | Wire size     | Wire type |                   |
|                                        |                              | 120V                      | 240V | 200V        | 240V | 480V | 600V |               |           |                   |
| 16                                     | 16                           | 1/2                       | 1.5  | 3           | 5    | 10   | 10   | #18 – 8       | Cu        | CDNF16A3          |
| 25                                     | 25                           | 3/4                       | 2    | 7.5         | 7.5  | 15   | 20   | #18 – 8       | Cu        | CDNF25A3          |
| 40                                     | 40                           | 1                         | 3    | 10          | 10   | 20   | 25   | #18 – 8       | Cu        | CDNF32A3          |
| 60                                     | 63                           | 2                         | 5    | 15          | 15   | 30   | 30   | #14 – 4       | Cu        | CDNF45A3          |
| 80                                     | 80                           | 2                         | 5    | 20          | 20   | 40   | 40   | #14 – 1       | Cu        | CDNF63A3          |
| 30                                     | 40                           | 2                         | 5    | 10          | 10   | 20   | 30   | #14 – 4       | Cu        | CDNF30A3          |
| 60                                     | 63                           | 3                         | 7.5  | 20          | 20   | 40   | 40   | #14 – 4       | Cu        | CDNF60A3          |
| 100                                    | 115                          | 5                         | 15   | 25          | 30   | 50   | 50   | #8 – 1/0      | Cu        | CDNF100A3         |

## Selector handles — for use with shafts ☐ .24 x .24" (☐ 6 x 6mm)

| NEMA<br>type                            | IEC<br>type | Color   | Defeatable | Padlockable | Weight<br>(lbs) | Catalog<br>number    |
|-----------------------------------------|-------------|---------|------------|-------------|-----------------|----------------------|
| <b>All marked both O/I &amp; Off/On</b> |             |         |            |             |                 |                      |
| 1                                       | IP54        | Black   | —          | —           | 0.09            | CBDH1S <sup>②</sup>  |
| 1                                       | IP54        | Red/Yel | —          | —           | 0.09            | CBDH2S <sup>②</sup>  |
| 1                                       | IP54        | Black   | —          | Yes         | 0.12            | CBDH15S <sup>②</sup> |
| 1                                       | IP54        | Red/Yel | —          | Yes         | 0.12            | CBDH16S <sup>②</sup> |
| 1,3R,12                                 | IP65        | Black   | —          | Yes         | 0.16            | CBDH3S               |
| 1,3R,12                                 | IP65        | Red/Yel | —          | Yes         | 0.16            | CBDH4S               |
| 1,3R,12                                 | IP65        | Black   | Yes        | Yes         | 0.16            | CBDH5S               |
| 1,3R,12                                 | IP65        | Red/Yel | Yes        | Yes         | 0.16            | CBDH6S               |

## Shafts — for use with CDH selector handles ☐ .24 x .24" (☐ 6 x 6mm)

| Shaft<br>length<br>inches/mm |  Mounting depth® in inches |                |                  |                |                             |      | Weight<br><br>(lbs) | Catalog<br>number |
|------------------------------|---------------------------------------------------------------------------------------------------------------|----------------|------------------|----------------|-----------------------------|------|---------------------|-------------------|
|                              | CDNF16<br>CDNF25<br>CDNF32                                                                                    |                | CDNF45<br>CDNF63 |                | CDNF30<br>CDNF60<br>CDNF100 |      |                     |                   |
|                              | CBDH1S, CBDH2S                                                                                                | CBDH3S, CBDH4S | CBDH1S, CBDH2S   | CBDH3S, CBDH4S | CBDH3S, CBDH4S              |      |                     |                   |
|                              | CBDH15S, CBDH16S                                                                                              | CBDH5S, CBDH6S | CBDH15S, CBDH16S | CBDH5S, CBDH6S | CBDH5S, CBDH6S              |      |                     |                   |
| 3.3/85                       | 4.2 – 5.0                                                                                                     | 3.6 – 4.3      | 4.9 – 5.6        | 4.4 – 5.0      | 3.9 – 4.9                   | 0.04 | BDS85S              |                   |
| 4.1/105                      | 5.0 – 5.8                                                                                                     | 4.4 – 5.1      | 5.7 – 6.4        | 5.1 – 5.8      | 4.7 – 5.7                   | 0.04 | BDS105S             |                   |
| 4.7/120                      | 5.6 – 6.4                                                                                                     | 5.0 – 5.8      | 6.3 – 7.0        | 5.7 – 6.4      | 5.3 – 6.3                   | 0.05 | BDS120S             |                   |
| 5.1/130                      | 6.0 – 6.7                                                                                                     | 5.4 – 6.1      | 6.7 – 7.4        | 6.1 – 6.8      | 5.6 – 6.7                   | 0.05 | BDS130S             |                   |
| 7.1/180                      | 7.1 – 8.7                                                                                                     | 7.4 – 8.1      | 8.6 – 9.4        | 8.1 – 8.7      | 7.6 – 8.6                   | 0.08 | BDS180S             |                   |
| 9.8/250                      | 10.7 – 11.5                                                                                                   | 10.1 – 10.8    | 11.4 – 12.1      | 10.9 – 11.5    | 10.4 – 11.4                 | 0.10 | BDS250S             |                   |
| 13/330                       | 13.8 – 14.6                                                                                                   | 13.3 – 14.0    | 14.6 – 15.3      | 14.0 – 14.7    | 13.5 – 14.5                 | 0.14 | BDS330S             |                   |

① A snap on fourth pole may be added

② Not suitable for use with CDNF30, 60, 100A3.

③ Mounting depth is the distance from the outside of door to the disconnect switch mounting plate. Shaft can be cut to desired length.



CDNF16A3  
CDNF25A3  
CDNF32A3



CDNF30A3  
CDNF60A3  
CDNF100A3



CDBH1S



CDBH15S



CDBH6S



BDS\_S

Fusible

Non-Fused

Enclosed Fused

Enclosed Non-Fused

**Base & DIN Rail Mounted**

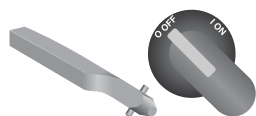
BDH56, 58



BDH57



BDS\_



BDST\_



CDRKBS12



CDBY68419-6-2M



CDMCS2

**Pistol handles** — for use with shafts  $\square .24 \times .24"$  ( $\square 6 \times 6\text{mm}$ )

| NEMA type    | IEC type | Color   | Marking      | Length inches/mm | Defeatable | Padlockable | Weight (lbs.) | Catalog number |
|--------------|----------|---------|--------------|------------------|------------|-------------|---------------|----------------|
| 1,3R,12      | IP65     | Black   | O/I & Off/On | 1.8/45           | Yes        | Yes         | 0.28          | BDH56          |
| 1,3R,12      | IP65     | Red/Yel | O/I & Off/On | 1.8/45           | Yes        | Yes         | 0.28          | BDH57          |
| 1,3R,12      | IP65     | Black   | O/I & Off/On | 2.6/65           | Yes        | Yes         | 0.29          | BDH58          |
| 1,3R,12      | IP65     | Red/Yel | O/I & Off/On | 2.6/65           | Yes        | Yes         | 0.29          | BDH59          |
| 1,3R,12,4,4X | IP66     | Black   | O/I & Off/On | 2.6/65           | Yes        | Yes         | 0.29          | CDHXB65L6      |
| 1,3R,12,4,4X | IP66     | Red/Yel | O/I & Off/On | 2.6/65           | Yes        | Yes         | 0.29          | CDHXY65L6      |

**Shafts** — for use with pistol handles  $\square .24 \times .24"$  ( $\square 6 \times 6\text{mm}$ )

| Shaft length | Mounting depth <sup>①</sup> in inches |             |                      | Weight | Catalog |
|--------------|---------------------------------------|-------------|----------------------|--------|---------|
|              | CDNF16A3<br>CDNF25A3                  | CDNF45A3    | CDNF30A3<br>CDNF60A3 |        |         |
| 5.9/150      | 6.2 – 6.7                             | 6.9 – 7.4   | 6.4 – 7.4            | 0.07   | BDS150  |
| 6.7/170      | 7.0 – 7.5                             | 7.7 – 8.1   | 7.2 – 8.1            | 0.08   | BDS170  |
| 10.4/265     | 10.7 – 11.3                           | 11.4 – 11.9 | 10.9 – 11.9          | 0.12   | BDS265  |
| 15.8/400     | 16.0 – 16.6                           | 16.8 – 17.2 | 16.2 – 17.2          | 0.18   | BDS400  |
| 19.7/500     | 20.0 – 20.5                           | 20.7 – 21.1 | 20.1 – 21.1          | 0.23   | BDS500  |

**Twisted shafts** — Rotates handle 45°  $\square .24 \times .24"$  ( $\square 6 \times 6\text{mm}$ )

| Shaft length (inches/mm) | Mounting depth <sup>①</sup> in inches |                      |                                   | Weight (lbs.) | Catalog number |
|--------------------------|---------------------------------------|----------------------|-----------------------------------|---------------|----------------|
|                          | CDNF16A3<br>CDNF25A3<br>CDNF32A3      | CDNF45A3<br>CDNF63A3 | CDNF30A3<br>CDNF60A3<br>CDNF100A3 |               |                |
| 5.9/130                  | 6.2 – 6.7                             | 6.9 – 7.4            | 6.4 – 7.4                         | 0.07          | BDST4          |
| 8.3/210                  | 7.0 – 7.5                             | 7.7 – 8.1            | 7.2 – 8.1                         | 0.08          | BDST25         |
| 11.4/290                 | 10.7 – 11.3                           | 11.4 – 11.9          | 10.9 – 11.9                       | 0.12          | BDST29         |
| 14.2/360                 | 16.0 – 16.6                           | 16.8 – 17.2          | 16.2 – 17.2                       | 0.18          | BDST30         |

**Replacement knob** — mounts directly to switch; no shaft necessary

| NEMA         | Color | For use                               | Length | Padlockable | Catalog        |
|--------------|-------|---------------------------------------|--------|-------------|----------------|
| 1            | Black | CDNF16, 25, 32A3                      | 1.0    | —           | CDRKBS12       |
| 1            | Black | CDNF30, 45, 60, 63, 100A3             | 1.4    | Yes         | CDBY68419-6-2M |
| Metal collar |       | CDNF16 – CDNF100A3                    | —      | —           | CDMCS2         |
| Set screw    |       | CDNF16, 25, 30, 32, 45, 60, 63, 100A3 | —      | —           | CDSWM5X8A      |

① Mounting depth is the distance from the outside of door to the disconnect switch mounting plate. Shaft can be cut to desired length.

## Accessories

# for 16A – 100A Non-Fusible Disconnect Switches

**COOPER** Bussmann  
Base & DIN Rail Mounted

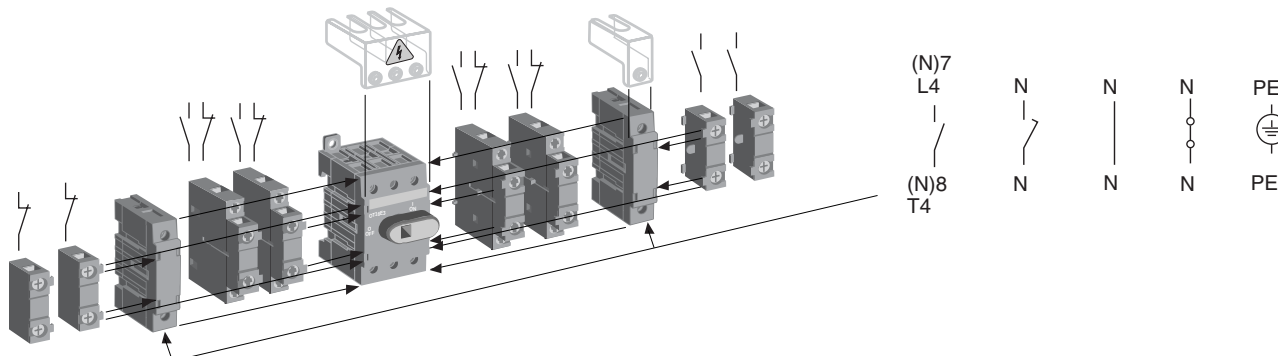
Fusible

Non-Fused

Enclosed Fused

Enclosed Non-Fused

### Base and DIN rail mounted switches



### Auxiliary contacts<sup>①</sup> — snap-on mounting

| Description                                                 | For use on:        | Weight (lbs.) | AC thermal amp rating | AC rated voltage | Catalog number |
|-------------------------------------------------------------|--------------------|---------------|-----------------------|------------------|----------------|
| 1 N.O. mounts on right hand side of switch only             | CDNF16 – CDNF100A3 | 0.07          | 10                    | 600              | CDAUX10        |
| 1 N.C. mounts on left hand side of switch only              | CDNF16 – CDNF100A3 | 0.07          | 10                    | 600              | CDAUX01        |
| 1 N.O. + 1 N.C. mounts on left or right hand side of switch | CDNF16 – CDNF100A3 | 0.07          | 10                    | 600              | CDAUX11        |

Max. two contacts on each side of switch

### Power poles

- Only one power pole per switch
- Mounts on left or right side of switch

| Description                        | For use on:       | Weight (lbs.) | AC thermal amp rating | AC rated voltage | Catalog number |
|------------------------------------|-------------------|---------------|-----------------------|------------------|----------------|
| Fourth pole <sup>②</sup>           | CDNF16 - CDNF32A3 | 0.07          | 40                    | 600              | CDS32PP        |
|                                    | CDNF30 - 60A3     | 0.13          | 60                    | 600              | CDS60PP        |
|                                    | CDNF45 - 63A3     | 0.13          | 80                    | 600              | CDS63PP        |
|                                    | CDNF - 100A3      | 0.31          | 100                   | 600              | CDS125PP       |
| Late-break/early-make <sup>②</sup> | CDNF16 - CDNF32A3 | 0.07          | 40                    | 600              | CDL32PP        |
|                                    | CDNF30 - 60A3     | 0.13          | 60                    | 600              | CDL60PP        |
|                                    | CDNF45 - 63A3     | 0.13          | 80                    | 600              | CDL63PP        |
|                                    | CDNF - 100A3      | 0.31          | 100                   | 600              | CDL125PP       |

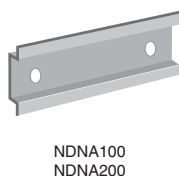
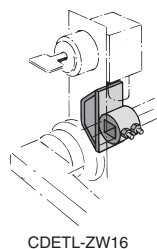
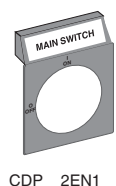
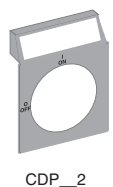
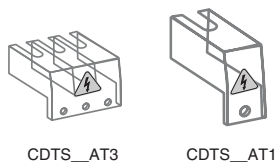
### Terminal poles

- Switch accepts one terminal pole per side
- Mounts on left or right side of switch

| Description                     | For use on:   | Weight (lbs.) | AC thermal amp rating | AC rated voltage | Catalog number |
|---------------------------------|---------------|---------------|-----------------------|------------------|----------------|
| Solid neutral <sup>②</sup>      | CDNF16 - 32A3 | 0.07          | 40                    | 600              | CDN32TP        |
|                                 | CDNF45 - 63A3 | 0.13          | 80                    | 600              | CDN63TP        |
|                                 | CDNF - 100A3  | 0.31          | 100                   | 600              | CDN125TP       |
| Detachable neutral <sup>②</sup> | CDNF16 - 32A3 | 0.07          | 40                    | 600              | CDD32TP        |
|                                 | CDNF30 - 60A3 | 0.13          | 60                    | 600              | CDD60TP        |
|                                 | CDNF45 - 63A3 | 0.13          | 80                    | 600              | CDD63TP        |
|                                 | CDNF - 100A3  | 0.31          | 100                   | 600              | CDD125TP       |
| Ground terminal <sup>②</sup>    | CDNF16 - 32A3 | 0.07          | 40                    | 600              | CDE32TP        |
|                                 | CDNF30 - 60A3 | 0.13          | 60                    | 600              | CDE60TP        |
|                                 | CDNF45 - 63A3 | 0.13          | 80                    | 600              | CDE63TP        |
|                                 | CDNF - 100A3  | 0.31          | 100                   | 600              | CDE125TP       |

① UL File # E83510

② Switch accepts one power pole or one terminal pole per side. Only one power pole per switch.

**Base & DIN Rail Mounted****Terminal shrouds\*** — snap on mounting for line or load side

| Description                                              | For use on:                                                   | Weight (lbs.)        | Catalog number                      |
|----------------------------------------------------------|---------------------------------------------------------------|----------------------|-------------------------------------|
| 3 pole<br>includes one shroud<br>for line or load side   | CDNF16, -25, -32 A3<br>CDNF45, -63 A3<br>CDNF30, -60, -100 A3 | 0.02<br>0.02<br>0.02 | CDTS32AT3<br>CDTS63AT3<br>CDTS100T3 |
| 4th pole<br>includes one shroud<br>for line or load side | CD_32PP<br>CD_63PP<br>CD_125PP                                | 0.02<br>0.02<br>0.02 | CDTS32AT1<br>CDTS63AT1<br>CDTS100T1 |

\* All disconnects are IP20 touch safe as standard. Terminal shrouds provide an additional level of protection.

**Padlocking adapter**

| Description                                              | For use on:                                       | Weight (lbs.) | Catalog number |
|----------------------------------------------------------|---------------------------------------------------|---------------|----------------|
| Adapter for one padlock<br>with a max.<br>0.137" shackle | CDNF30, -45 A3<br>CDNF60, -63 A3<br>CDNF - 100 A3 | 0.02          | CDSA1          |
| Padlock for DS-SA1                                       |                                                   | 0.22          | CDSA2          |
| Adapter and padlock                                      |                                                   | 0.24          | CDSA3          |

**Labelling accessories**

| Description                       | For use on:                                       | Package quantity | Catalog number |
|-----------------------------------|---------------------------------------------------|------------------|----------------|
| 1 Pkg. of label carriers          | CDNF30, -45 A3<br>CDNF60, -63 A3<br>CDNF - 100 A3 | 100 pieces       | CDTL-ST        |
| 1 Pkg of blank description labels |                                                   | 315 pieces       | CDT-E          |

**Legend plates for selector handles**

| Description                    | For use on:     | Catalog number |
|--------------------------------|-----------------|----------------|
| Blank plate                    |                 |                |
| Black                          | CBDH1S, CBDH15S | CDPB1          |
| Yellow                         | CBDH2S, CBDH16S | CDPY1          |
| Black                          | CBDH3S, CBDH5S  | CDPB2          |
| Yellow                         | CBDH4S, CBDH6S  | CDPY2          |
| Plate marked with: MAIN SWITCH |                 |                |
| Black                          | CBDH1S, CBDH15S | CDPB1EN1       |
| Yellow                         | CBDH2S, CBDH16S | CDPY1EN1       |
| Black                          | CBDH3S, CBDH5S  | CDPB2EN1       |
| Yellow                         | CBDH4S, CBDH6S  | CDPY2EN1       |

**Locking accessories**

| Description                                                                                                                                            | For use on:    | Weight (lbs.) | Catalog number |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------|----------------|
| <b>Cam attachment</b> for Kirk Key, Castell, Lowe & Fletcher and Ronis interlock. For adapting to the interlock system. The interlock is not included. | 6 & 8mm shafts | 0.29          | CDETL-ZW16     |

**DIN rail**

| Description            | For use on:         | Weight (lbs.) | Length inches/mm | Catalog number |
|------------------------|---------------------|---------------|------------------|----------------|
| 35mm DIN Rail          | CDNF16 – CDNF100 A3 | 0.38          | 39.4/1000        | NDNA100        |
| 35mm Aluminum DIN Rail | CDNF16 – CDNF100 A3 | 0.75          | 78.8/1000        | NDNA200        |

**Shaft support**

| Description   | For use on:         | Weight (lbs.) | Catalog number |
|---------------|---------------------|---------------|----------------|
| Shaft support | CDNF16 – CDNF100 A3 | 0.30          | CDTL-ZX58      |

Fusible

Non-Fused

Enclosed Fused

Enclosed Non-Fused

# Accessories for 16A – 100A Non-Fusible Disconnect Switches

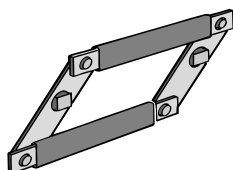
**COOPER** Bussmann  
Base & DIN Rail Mounted

Fusible

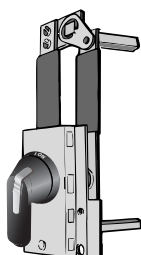
Non-Fused

Enclosed Fused

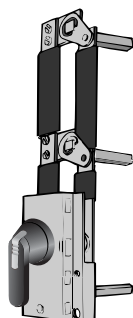
Enclosed Non-Fused



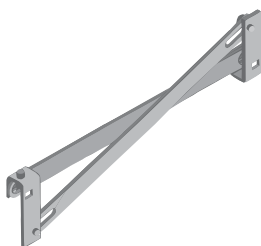
CDZW8



BDZW1



CDZW17



CDZW24

## Conversion mechanisms

- For use with Base and DIN rail mounted switches only
- Switches are not included

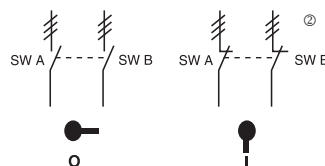
| Description | For use on:        | Weight (lbs.) | Catalog number |
|-------------|--------------------|---------------|----------------|
| 6 or 8 pole | CDNF16 – CDNF100A3 | 0.33          | CDZW8          |
| Transfer    |                    | 1.87          | BDZW1          |
| Bypass      |                    | 1.54          | CDZW17         |

## 6 or 8 pole — CDZW8

6 (8) pole mechanism allows two switches controlled by one handle to open or close simultaneously.

Equipment required for a complete installation:

- One conversion mechanism
- Two disconnect switches
- One handle<sup>①</sup>
- One 5mm shaft



|       | POS. O | POS. I |
|-------|--------|--------|
| SW. A | O      | X      |
| SW. B | O      | X      |

X = Closed  
O = Open

## Transfer — BDZW1

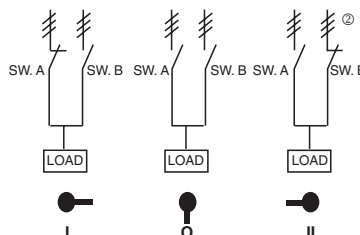
Transfer mechanism manually transfers between two power sources using two switches and a center OFF position.

A 3-position handle is included:

(UL Type 1, 3R & 12) or  
(UL Type 1, 3R, 4, 4X, 12)

Shafts included. Equipment required for a complete installation:

- One conversion mechanism
- Two disconnect switches



|       | POS. I | POS. O | POS. II |
|-------|--------|--------|---------|
| SW. A | X      | O      | O       |
| SW. B | O      | O      | X       |

X = Closed  
O = Open

## Bypass — CDZW17

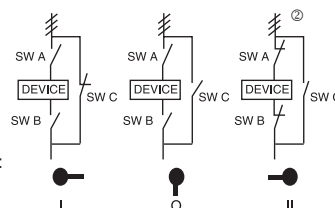
Bypass mechanism operates three switches: Two switches in series and one changeover switch to allow power bypass.

A 3-position handle is included:

(UL Type 1, 3R & 12) or  
(UL Type 1, 3R, 4, 4X, 12) Shafts included.

Equipment required for a complete installation:

- One conversion mechanism
- Three disconnect switches



|       | POS. I | POS. O | POS. II |
|-------|--------|--------|---------|
| SW. A | O      | O      | X       |
| SW. B | O      | O      | X       |
| SW. C | X      | O      | O       |

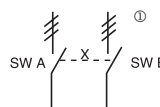
X = Closed  
O = Open

## Mechanical interlock — CDZW24

Mechanical interlock mechanism prevents both switches from being in the ON position at the same time.

Equipment required for a complete installation:

- One conversion mechanism
- Two disconnect switches
- Two handles
- Two shafts



|       | SW. A<br>POS. I | SW. B<br>POS. I |
|-------|-----------------|-----------------|
| SW. A | X               | O               |
| SW. B | O               | X               |

X = Closed  
O = Open

① CDNF16 – CDNF32A3 can use a selector or pistol handle. All other sizes must use a pistol handle.

② = Three poles



## Door Mounted

For a complete assembly,  
please order one of each:

- 1 switch
- 1 handle



CDNF45A3D



CDH9S



CDNF16A3D  
CDNF25A3D  
CDNF32A3D



CDBH8S  
CDBH12S



CDBH17S  
CDBH19S



CDBH9S  
CDBH13S



CDBH10S  
CDBH14S

16 – 100 Amp switches, 600V, 3 pole<sup>①②③</sup>

| UL<br>general<br>purpose<br>amp rating | IEC<br>AC21<br>amp<br>rating | Maximum horsepower rating |      |             |      |      |      | Terminal lugs |           | Catalog<br>number |
|----------------------------------------|------------------------------|---------------------------|------|-------------|------|------|------|---------------|-----------|-------------------|
|                                        |                              | Single phase              |      | Three phase |      |      |      |               |           |                   |
|                                        |                              | 120V                      | 240V | 200V        | 240V | 480V | 600V | Wire size     | Wire type |                   |
| 16                                     | 16                           | 1/2                       | 1.5  | 3           | 5    | 10   | 10   | #18 – 8       | Cu        | CDNF16A3D         |
| 25                                     | 25                           | 3/4                       | 2    | 7.5         | 7.5  | 15   | 20   | #18 – 8       | Cu        | CDNF25A3D         |
| 40                                     | 40                           | 1                         | 3    | 10          | 10   | 20   | 25   | #18 – 8       | Cu        | CDNF32A3D         |
| 60④                                    | 63                           | 2                         | 5    | 15          | 15   | 30   | 20   | #14 – 4       | Cu        | CDNF45A3D         |
| 80④                                    | 80                           | 2                         | 5    | 20          | 20   | 40   | 40   | #14 – 1       | Cu        | CDNF63A3D         |
| 30④                                    | 40                           | 2                         | 5    | 10          | 10   | 20   | 30   | #14 – 4       | Cu        | CDNF30A3D         |
| 60④                                    | 63                           | 3                         | 7.5  | 20          | 20   | 40   | 40   | #14 – 4       | Cu        | CDNF60A3D         |
| 100④                                   | 115                          | 5                         | 15   | 25          | 25   | 50   | 40   | #8 – 1/0      | Cu        | CDNF100A3D        |

## Selector handles

| NEMA/UL<br>type | IEC<br>type | Color | Defeatable | Padlockable | Weight<br>(lbs) | Catalog<br>number |
|-----------------|-------------|-------|------------|-------------|-----------------|-------------------|
|-----------------|-------------|-------|------------|-------------|-----------------|-------------------|

## All marked both O/I &amp; Off/On

## Snap-on mounting — for use on CDNF16, 25, 32A3D

|         |      |         |   |     |      |         |
|---------|------|---------|---|-----|------|---------|
| 1       | IP54 | Black   | — | —   | 0.10 | CBDH7S  |
| 1       | IP54 | Red/Yel | — | —   | 0.10 | CBDH8S  |
| 1       | IP54 | Black   | — | Yes | 0.13 | CBDH19S |
| 1       | IP54 | Red/Yel | — | Yes | 0.13 | CBDH20S |
| 1,3R,12 | IP65 | Black   | — | Yes | 0.17 | CBDH9S  |
| 1,3R,12 | IP65 | Red/Yel | — | Yes | 0.17 | CBDH10S |

## Screw mounting — for use on CDNF16, 25, 32, 45 &amp; 63A3D

|         |      |         |   |     |      |         |
|---------|------|---------|---|-----|------|---------|
| 1       | IP54 | Black   | — | —   | 0.11 | CBDH11S |
| 1       | IP54 | Red/Yel | — | —   | 0.11 | CBDH12S |
| 1       | IP54 | Black   | — | Yes | 0.14 | CBDH17S |
| 1       | IP54 | Red/Yel | — | Yes | 0.14 | CBDH18S |
| 1,3R,12 | IP65 | Black   | — | Yes | 0.18 | CBDH13S |
| 1,3R,12 | IP65 | Red/Yel | — | Yes | 0.18 | CBDH14S |

Door mounted switches do not provide door interlock

## Pistol grip handle adapter

| Description                                                              | For use on:                 | Weight<br>(lbs) | Catalog<br>number |
|--------------------------------------------------------------------------|-----------------------------|-----------------|-------------------|
| Adapter piece for pistol grip handle<br>(Note: derates handle to NEMA 1) | CDNF30, CDNF60,<br>CDNF100S | 0.18            | CDHZSX6           |

- ① A snap on fourth pole may be added
- ② Door mounted switches do not require shafts.
- ③ CDNF16, 25, 32, 45 & 63 door mounted switches will not accept pistol handles.
- ④ CDNF45 & 63 door mounted switches can only use screw mounted handles.

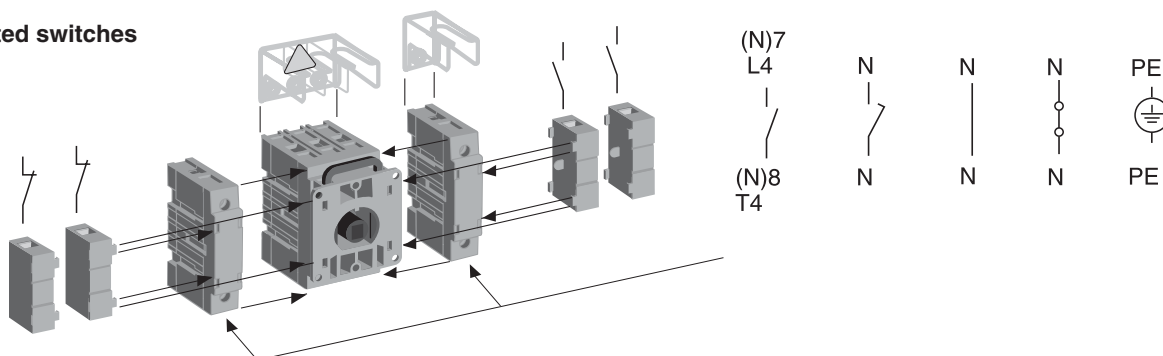


# Accessories for 16A – 100A Non-Fusible Disconnect Switches



## Door Mounted

### Door mounted switches



Fusible

Non-Fused

Enclosed Fused

Enclosed Non-Fused

### Auxiliary contacts<sup>①</sup> — snap-on mounting

| Description                                                    | For use on:            | Weight (lbs) | AC thermal amp rating | AC rated voltage | Catalog number |
|----------------------------------------------------------------|------------------------|--------------|-----------------------|------------------|----------------|
| 1 N.O.<br>mounts on righthand side of switch                   | CDNF16A3D - CDNF100A3D | 0.07         | 10                    | 600              | CDAUX10        |
| 1 N.C.<br>mounts on lefthand side of switch                    |                        | 0.07         | 10                    | 600              | CDAUX01        |
| 1 N.O. + 1 N.C.<br>mounts on left or right hand side of switch |                        | 0.07         | 10                    | 600              | CDAUX11        |

Max. two contacts on each side of switch

### Power poles

- Only one power pole per switch
- Mounts on left or right side of switch

| Description                        | For use on:                | Weight (lbs) | AC thermal amp rating | AC rated voltage | Catalog number |
|------------------------------------|----------------------------|--------------|-----------------------|------------------|----------------|
| Fourth pole <sup>②</sup>           | CDNF16A3D, -25A3D, -32A3D  | 0.07         | 40                    | 600              | CDS32PD        |
|                                    | CDNF30A3D, -60A3D          | 0.13         | 60                    | 600              | CDS60PD        |
|                                    | CDNF45A3D, -63A3D          | 0.13         | 80                    | 600              | CDS63PD        |
|                                    | CNDF100A3D                 | 0.20         | 100                   | 600              | CDS100PD       |
| Late-break/early-make <sup>②</sup> | CDNF16A3D, -25A3D, -32A3D  | 0.07         | 40                    | 600              | CDL32PD        |
|                                    | CDNF45A3D, -63A3D          | 0.13         | 80                    | 600              | CDL63PD        |
|                                    | CDNF30A3D, -60A3D, -100A3D | 0.20         | 100                   | 600              | CDL100PD       |

### Terminal poles

- Switch accepts one terminal pole per side
- Mounts on left or right side of switch

| Description                  | For use on:               | Weight (lbs) | AC thermal amp rating | AC rated voltage | Catalog number |
|------------------------------|---------------------------|--------------|-----------------------|------------------|----------------|
| Solid neutral <sup>②</sup>   | CDNF16A3D, -25A3D, -32A3D | 0.07         | 40                    | 600              | CDN32PD        |
|                              | CDNF30A3D, -60A3D         | 0.17         | 60                    | 600              | CDN60PD        |
|                              | CDNF45A3D, -63A3D         | 0.13         | 80                    | 600              | CDN63PD        |
|                              | CNDF100A3D                | 0.20         | 100                   | 600              | CDN100PD       |
| Ground terminal <sup>②</sup> | CDNF16A3D, -25A3D, -32A3D | 0.07         | 40                    | 600              | CDE32PD        |
|                              | CDNF30A3D, -60A3D         | 0.13         | 60                    | 600              | CDE32PD        |
|                              | CDNF45A3D, -63A3D         | 0.13         | 80                    | 600              | CDE63PD        |
|                              | CNDF100A3D                | 0.20         | 100                   | 600              | CDE100PD       |

<sup>①</sup> UL File # E83510

<sup>②</sup> Switch accepts one power pole or one terminal pole per side. Only one power pole per switch.

**Door Mounted****Terminal shrouds\*** — snap-on mounting for line or load side

| Description                                            | For use on:        | Weight (lbs) | Catalog number |
|--------------------------------------------------------|--------------------|--------------|----------------|
| 3 pole<br>includes one shroud<br>for line or load side | CDNF16D, 25D, 32D  | 0.02         | CDTS32AT3      |
|                                                        | CDNF45D & 63D      | 0.02         | CDTS63AT3      |
|                                                        | CDNF30D, 60D, 100D | 0.02         | CDTS100T3      |
| 4 pole<br>includes one shroud<br>for line or load side | CD_32D             | 0.02         | CDTS32AT1      |
|                                                        | CD_63D             | 0.02         | CDTS63AT1      |
|                                                        | CD_100D            | 0.02         | CDTS100T1      |

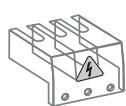
\* All disconnects are IP20 touch safe as standard. Terminal shrouds provide an additional level of protection.

**Legend plates for selector handles**

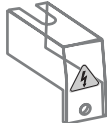
| Description                           | For use on:     | Catalog number |
|---------------------------------------|-----------------|----------------|
| <b>Blank plate</b>                    |                 |                |
| Black                                 | CBDH1S, CBDH15S | CDPB1          |
| Yellow                                | CBDH2S, CBDH16S | CDPY1          |
| Black                                 | CBDH3S, CBDH5S  | CDPB2          |
| Yellow                                | CBDH4S, CBDH6S  | CDPY2          |
| <b>Plate marked with: MAIN SWITCH</b> |                 |                |
| Black                                 | CBDH1S, CBDH15S | CDPB1EN1       |
| Yellow                                | CBDH2S, CBDH16S | CDPY1EN1       |
| Black                                 | CBDH3S, CBDH5S  | CDPB2EN1       |
| Yellow                                | CBDH4S, CBDH6S  | CDPY2EN1       |

**Locking clip (replacement part)**

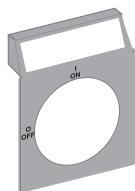
| Description                                | For use on:                            | Catalog number |
|--------------------------------------------|----------------------------------------|----------------|
| Door mounted switch<br>handle locking clip | CDNF16DA3D<br>CDNF25DA3D<br>CDNF32DA3D | CDBY68140      |



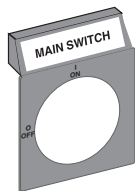
CDTS\_AT3



CDTS\_AT1



CDP\_



CPP\_EN1



CDBY68140

Fusible

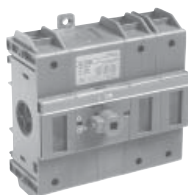
Non-Fused

Enclosed Fused

Enclosed Non-Fused

For a complete assembly,  
please select one of each:

- 1 switch
- 1 handle
- 1 shaft



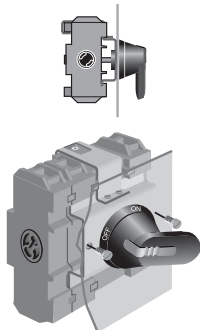
CDNF160



BDS210



BDH60



CDNF160D



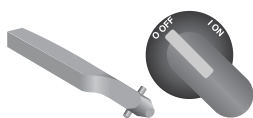
BDH60



BDH61



BDS\_\_



BDST\_\_

### 125 Amp Base & DIN rail mounted switches<sup>①</sup>, 600V

| UL 98<br>general<br>purpose<br>amp rating | IEC<br>AC21<br>amp<br>rating | Maximum horsepower rating |      |      |      |      | Terminal lugs |           | Catalog<br>number |
|-------------------------------------------|------------------------------|---------------------------|------|------|------|------|---------------|-----------|-------------------|
|                                           |                              | Three phase               |      |      |      |      |               |           |                   |
|                                           |                              | 200V                      | 208V | 240V | 480V | 600V | Wire size     | Wire type |                   |
| <b>2 pole</b>                             |                              |                           |      |      |      |      |               |           |                   |
| 100                                       | 160                          | —                         | —    | —    | —    | —    | #8 – 1/0      | Cu        | CDNF160-2         |
| <b>3 pole</b>                             |                              |                           |      |      |      |      |               |           |                   |
| 100                                       | 160                          | 30                        | 30   | 30   | 60   | 75   | #8 – 1/0      | Cu        | CDNF160           |

### 125 Amp Door mounted switch<sup>①</sup>, 600V, 3 pole

| UL 98<br>general<br>purpose<br>amp rating | IEC<br>AC21<br>amp<br>rating | Maximum horsepower rating |      |      |      |      | Terminal lugs |           | Catalog<br>number |
|-------------------------------------------|------------------------------|---------------------------|------|------|------|------|---------------|-----------|-------------------|
|                                           |                              | Three phase               |      |      |      |      |               |           |                   |
|                                           |                              | 200V                      | 208V | 240V | 480V | 600V | Wire size     | Wire type |                   |
| 100                                       | 160                          | 30                        | 30   | 30   | 60   | 75   | #8 – 1/0      | Cu        | CDNF160D          |

### Pistol handles — for use with $\square .24 \times .24$ " ( $\square 6 \times 6$ mm)

| NEMA<br>type     | IEC<br>type | Color   | Length<br>in/mm | Marking      | Defeat-<br>able | Padlock-<br>able | Weight<br>(lbs) | Catalog<br>number |
|------------------|-------------|---------|-----------------|--------------|-----------------|------------------|-----------------|-------------------|
| 1, 3R, 12        | IP65        | Black   | 2.6/65          | O/I & Off/On | Yes             | Yes              | 0.29            | BDH58             |
| 1, 3R, 12        | IP65        | Red/Yel | 2.6/65          | O/I & Off/On | Yes             | Yes              | 0.29            | BDH59             |
| 1, 3R, 12        | IP65        | Black   | 3.1/80          | O/I & Off/On | Yes             | Yes              | 0.30            | BDH60             |
| 1, 3R, 12        | IP65        | Red/Yel | 3.1/80          | O/I & Off/On | Yes             | Yes              | 0.30            | BDH61             |
| 1, 3R, 4, 4X, 12 | IP66        | Black   | 3.1/80          | O/I & Off/On | Yes             | Yes              | 0.30            | CDHXB86           |
| 1, 3R, 4, 4X, 12 | IP66        | Red/Yel | 3.1/80          | O/I & Off/On | Yes             | Yes              | 0.30            | CDHXY86           |

### Shafts — for use with pistol handles $\square .24 \times .24$ " ( $\square 6 \times 6$ mm)

| Shaft length<br>inches/mm |  | Mounting depth <sup>②</sup><br>inches | Weight<br>(lbs) | Catalog<br>number |
|---------------------------|-------------------------------------------------------------------------------------|---------------------------------------|-----------------|-------------------|
| 5.2/130                   |                                                                                     | 4.3 – 6.0                             | 0.08            | BDS130            |
| 5.9/150                   |                                                                                     | 5.0 – 6.7                             | 0.09            | BDS150            |
| 8.3/210                   |                                                                                     | 7.4 – 9.1                             | 0.13            | BDS210            |
| 11.4/290                  |                                                                                     | 10.5 – 12.2                           | 0.18            | BDS290            |
| 14.2/360                  |                                                                                     | 13.3 – 15.0                           | 0.23            | BDS360            |
| 16.9/430                  |                                                                                     | 16.0 – 17.8                           | 0.27            | BDS430            |

### Twisted shafts — Rotates handle 45° $\square .24 \times .24$ " ( $\square 6 \times 6$ mm)

| Shaft length<br>inches/mm |  | Mounting depth <sup>②</sup><br>inches | Weight<br>(lbs) | Catalog<br>number |
|---------------------------|-------------------------------------------------------------------------------------|---------------------------------------|-----------------|-------------------|
| 5.2/130                   |                                                                                     | 4.3 – 6.0                             | 0.08            | BDST4             |
| 8.3/210                   |                                                                                     | 7.4 – 9.1                             | 0.13            | BDST25            |
| 11.4/290                  |                                                                                     | 10.5 – 12.2                           | 0.18            | BDST29            |
| 14.2/360                  |                                                                                     | 13.3 – 15.0                           | 0.23            | BDST30            |

① A snap on fourth pole may be added

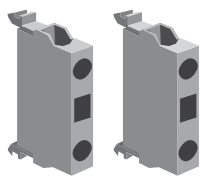
② Mounting depth is the distance from the outside of the door to the disconnect switch mounting plate. Shaft can be cut to desired length.

Fusible

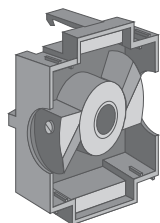
Non-Fused

Enclosed Fused

Enclosed Non-Fused



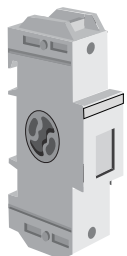
CDAUXCA10 CDAUXCA01



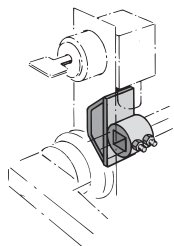
CDAUXB160



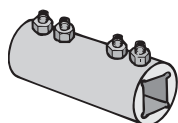
CDAUX16011 CDMB160



CD\_160P



CDETL-ZW16

BDZX167  
BDZX95**Auxiliary contacts, top mounted**

- Accepts four contacts maximum, mounting base always required

| Description                         | For use on: | Weight (lbs) | AC thermal amp rating | AC rated voltage | Catalog number |
|-------------------------------------|-------------|--------------|-----------------------|------------------|----------------|
| 1 N.O.                              | CDNF160     | 0.07         | 10                    | 600              | CDAUXCA10      |
| 1 N.C.                              |             |              | 10                    | 600              | CDAUXCA01      |
| 1 N.O. gold plated <sup>①</sup>     | CDNF160     | 0.07         | 10                    | 600              | CDEA-10AU      |
| 1 N.C. gold plated <sup>①</sup>     |             |              | 10                    | 600              | CDEA-01AU      |
| Mounting base – required for CDAUX_ | CDAUX_      | 0.06         | —                     | —                | CDAUXB160      |

**Auxiliary contacts, side mounted**

- Accepts four contacts maximum

| Description                            | For use on: | Weight (lbs) | AC thermal amp rating | AC rated voltage | Catalog number |
|----------------------------------------|-------------|--------------|-----------------------|------------------|----------------|
| 1 N.O. & 1 N.C.                        | CDNF160     | 0.07         | 10                    | 600              | CDAUX16011     |
| Mounting base, required for CDAUX16011 | CDNF160     | 0.06         | —                     | —                | CDMB160        |

Max. two contacts on each side of switch. One mounting base required for each side of switch

**Numbering stickers<sup>②</sup>**

| Description                                | For use on: | Package qty. | Catalog number |
|--------------------------------------------|-------------|--------------|----------------|
| 1 Pkg. of blank labels for OBEA-10, 1 N.O. | CDNF160     | 10           | CDEA-ZX10      |
| 1 Pkg. of blank labels for OBEA-01, 1 N.C. | CDNF160     | 10           | CDEA-ZX01      |

**Power pole — for use with base or door mounted switch**

- Only one power pole per switch
- Mounts on left or right side of switch

| Description | For use on: | Weight (lbs) | AC thermal amp rating | AC rated voltage | Catalog number |
|-------------|-------------|--------------|-----------------------|------------------|----------------|
| Fourth pole | CDNF160     | 0.66         | 125                   | 600              | CDS160P        |

**Terminal poles — for use with base or door mounted switch**

- Switch accepts one terminal pole per side
- Mounts on left or right side of switch

| Description                                                   | For use on: | Weight (lbs) | AC thermal amp rating | AC rated voltage | Catalog number |
|---------------------------------------------------------------|-------------|--------------|-----------------------|------------------|----------------|
| Detachable solid neutral mounts on side of switch or DIN rail | CDNF160     | 0.66         | 125                   | 600              | CDN160P        |
| Ground terminal                                               | CDNF160     | 0.66         | 125                   | 600              | CDE160P        |

**Locking accessories**

| Description                                                                                                                                            | For use on:       | Weight (lbs) | Catalog number |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------|----------------|
| <b>Cam attachment</b> for Kirk Key, Castell, Lowe & Fletcher and Ronis interlock. For adapting to the interlock system. The interlock is not included. | 5, 6 & 8mm shafts | 0.29         | CDETL-ZW16     |

**Handle support bracket**

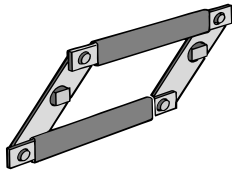
| Description                                                           | For use on: | Weight (lbs) | Catalog number |
|-----------------------------------------------------------------------|-------------|--------------|----------------|
| Allows pistol handle to be directly mounted to switch behind the door | CDNF160     | 0.33         | CDZX5          |

**Shaft extension couplers**

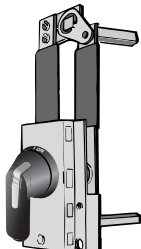
| Description                                                                  | For use on:                       | Weight (lbs) | Catalog number    |
|------------------------------------------------------------------------------|-----------------------------------|--------------|-------------------|
| Joins two shafts together for applications where extended length is required | for 6mm shafts<br>for 12mm shafts | 0.26<br>0.26 | BDZX167<br>BDZX95 |

<sup>①</sup> Type \_AU for low energy applications. The contacts are gold-plated. AC & DC ratings — Maximum: A600 & P600. Minimum: 12V, 1mA; 5V, 2mA  
<sup>②</sup> Required if several contact blocks are used in the same installation.

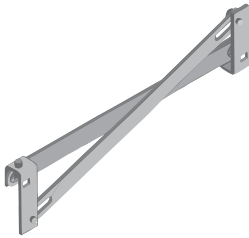
# Accessories for 125A Non-Fusible Disconnect Switches



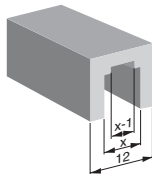
BDZW2



BDZW1



CDZW10



CDZK19  
(X = 6mm)



CDBY68005



CDMC2

## Conversion mechanisms

- For use with Base and Din rail mounted switches only
- Switches are not included

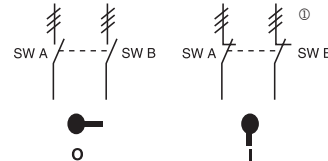
| Description          | For use on: | Weight (lbs.) | Catalog number |
|----------------------|-------------|---------------|----------------|
| 6 or 8 pole          | CDNF160     | 1.52          | BDZW2          |
| Transfer (1, 3R, 12) |             | 2.20          | BDZW1          |
| Transfer (4X)        |             | 2.20          | BDZW1X         |
| Mechanical interlock |             | 0.55          | CDZW10         |

## 6 or 8 pole — BDZW2

6 (8) pole mechanism allows two switches controlled by one handle, to open or close simultaneously. Shafts included.

Equipment required for a complete installation:

- One conversion mechanism
- Two disconnect switches
- One handle



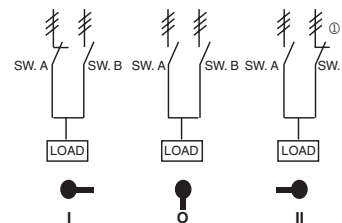
|       | POS. O | POS. I |
|-------|--------|--------|
| SW. A | O      | X      |
| SW. B | O      | X      |

X = Closed  
O = Open

## Transfer — BDZW1

Transfer mechanism manually transfers between two power sources using two switches and a center OFF position. A 3 position handle is included. (UL Type 1, 3R & 12) or (UL Type 1, 3R, 4, 4X, 12) Shafts included. Equipment required for a complete installation:

- One conversion mechanism
- Two disconnect switches



|       | POS. I | POS. O | POS. II |
|-------|--------|--------|---------|
| SW. A | X      | O      | O       |
| SW. B | O      | O      | X       |

X = Closed  
O = Open

## Mechanical interlock — CDZW10

Mechanical interlock mechanism prevents both switches from being in the ON position at the same time.

Equipment required for a complete installation:

- One conversion mechanism
- Two disconnect switches
- Two handles
- Two shafts



|       | SW. A<br>POS. I | SW. B<br>POS. I |
|-------|-----------------|-----------------|
| SW. A | X               | O               |
| SW. B | O               | X               |

X = Closed  
O = Open

## Shaft adapter

| Description                                                                    | For use on:    | Weight (lbs) | Catalog number |
|--------------------------------------------------------------------------------|----------------|--------------|----------------|
| Adapts one end of a 5 or 6mm shaft to 12mm<br>Use with shaft extension coupler | 5 & 6mm shafts | 0.20         | CDZK19         |

## Power pole interlock (replacement part)

| Description                                         | For use on: | Weight (lbs) | Catalog number |
|-----------------------------------------------------|-------------|--------------|----------------|
| Interlocks a power pole with an adjacent power pole | CDNF160     | 0.05         | CDBY68005      |

## Replacement collar (optional replacement for knob)

| Description                                                                              | For use on: | Weight (lbs) | Catalog number |
|------------------------------------------------------------------------------------------|-------------|--------------|----------------|
| Red knob (like original) for locking shaft in place<br>** re-use original set screw **   | CDNF160     | 0.05         | CXBY68100      |
| Replaces original red knob for locking shaft in place<br>** re-use original set screw ** | CDNF160     | 0.05         | CDMC2          |

① = Three poles

Fusible

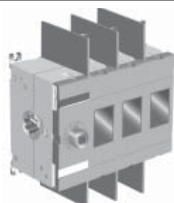
Non-Fused

Enclosed Fused

Enclosed Non-Fused

For a complete assembly,  
please select one of each:

- 1 switch
- 1 handle
- 1 shaft
- 1 terminal lug kit



CDNF200U03



BDS210



BDH60



CDTL200

### Non-Fusible 3 pole and 4 pole 200A Switch

200 AMP, 600V

| UL<br>general<br>purpose<br>amp rating | IEC AC21<br>Amp<br>Rating | Maximum horsepower rating |      |      |      |      | Catalog<br>number |
|----------------------------------------|---------------------------|---------------------------|------|------|------|------|-------------------|
|                                        |                           | Three phase               |      |      |      |      |                   |
|                                        |                           | 200V                      | 208V | 240V | 480V | 600V |                   |
| <b>3 pole</b>                          |                           |                           |      |      |      |      |                   |
| 200                                    | 250                       | 60                        | 60   | 75   | 250  | 200  | CDNF200U03        |
| <b>4 pole</b>                          |                           |                           |      |      |      |      |                   |
| 200                                    | 250                       | 60                        | 60   | 75   | 250  | 200  | CDNF200U04        |

### Pistol handles - $\frac{1}{4}$ x .24" ( $\frac{1}{8}$ x 6mm)

| UL/NEMA type | IEC type | Color   | Length inches/mm | Marking      | Defeatable | Padlockable | Weight (lbs) | Catalog number |
|--------------|----------|---------|------------------|--------------|------------|-------------|--------------|----------------|
| 1,3R,12      | IP65     | Black   | 3.1/80           | O/I & Off/On | Yes        | Yes         | 0.30         | BDH60          |
| 1,3R,12      | IP65     | Red/Yel | 3.1/80           | O/I & Off/On | Yes        | Yes         | 0.30         | BDH61          |
| 1,3R,4,4X,12 | IP65     | Black   | 3.1/80           | O/I & Off/On | Yes        | Yes         | 0.30         | CDHXB86        |
| 1,3R,4,4X,12 | IP65     | Red/Yel | 3.1/80           | O/I & Off/On | Yes        | Yes         | 0.30         | CDHXY86        |

### Shafts - $\frac{1}{4}$ x .24" ( $\frac{1}{8}$ x 6mm)

| Shaft length (inches/mm) | Mounting dept (inches) | Weight (lbs) | Catalog number |
|--------------------------|------------------------|--------------|----------------|
| 5.2/130                  | 4.3-6.5                | 0.08         | BDS130         |
| 5.9/150                  | 5.0-7.2                | 0.09         | BDS150         |
| 8.3/210                  | 7.4-9.6                | 0.13         | BDS210         |
| 11.4/290                 | 10.5-12.7              | 0.18         | BDS290         |
| 14.2/360                 | 13.3-15.5              | 0.23         | BDS360         |
| 16.9/430                 | 16.0-18.2              | 0.27         | BDS430         |

### Twisted shafts - rotates handle 45° $\frac{1}{4}$ x .24" ( $\frac{1}{8}$ x 6mm)

| Shaft length (inches/mm) | Mounting dept (inches) | Weight (lbs) | Catalog number |
|--------------------------|------------------------|--------------|----------------|
| 5.1/130                  | 4.29-6.85              | 0.08         | BDST4          |
| 8.3/210                  | 7.44-10.0              | 0.13         | BDST25         |
| 11.4/290                 | 10.59-13.15            | 0.18         | BDST29         |

### Direct mount handle - TEST-OFF-ON

| Description                                                       | Color            | (lbs)        | Catalog number     |
|-------------------------------------------------------------------|------------------|--------------|--------------------|
| Up to 3 padlocks in OFF-position.<br>Includes shaft and mechanism | Black<br>Red/Yel | 0.22<br>0.22 | CDHTB20<br>CDHTY20 |



BDH60, CDHXB86



BDH59, 61



BDS\_



BDST\_1

Fusible

Non-Fused

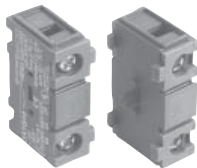
Enclosed Fused

Enclosed Non-Fused

# Accessories for 200A Non-Fusible Disconnect Switches



CDTL200



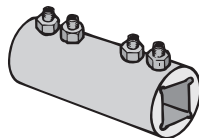
CDAUX10, CDAUX01K



CDTS250G1S/3



CDTS250G1L/3



BDZX167, BDZW95

## Terminal Lug Kits

| For use on: | Wire Size    | Wire Type | Description      | Terminal lugs per kit | Weight (lbs) | Catalog number |
|-------------|--------------|-----------|------------------|-----------------------|--------------|----------------|
| CDNF200U03  | #4-300kcmil  |           | ---              | 6                     | 0.5          | CDTL200        |
| CDNF200U04  | #4-300kcmil  |           | ---              | 3                     | 0.25         | CDTL200/3P     |
|             | (6) 14-6 AWG | Cu/Al     | Distribution lug | 3                     | 0.25         | CDTL206        |

## Auxiliary Contacts

| Description | For use on:    | Weight (lbs) | Catalog number |
|-------------|----------------|--------------|----------------|
| 1 N.O.      | CDNF200U03 and | 0.07         | CDAUX10        |
| 1 N.C.      | CDNF200U04     | 0.07         | CDAUX01K       |

## Module for auxiliary contacts

| Description                                   | Weight (lbs) | Catalog number |
|-----------------------------------------------|--------------|----------------|
| Screw mounting to the left side of the switch | 0.1          | CDAUXM28       |

## Terminal shrouds

| For use on:                  | Description | Number of poles | Weight (lbs) | Catalog number |
|------------------------------|-------------|-----------------|--------------|----------------|
| CDNF200U03 and<br>CDNF200U04 | Long type   | 3               | 0.2          | CDTS250G1L/3   |
|                              | Short type  | 3               | 0.13         | CDTS250G1S/3   |
|                              | Long type   | 4               | 0.26         | CDTS250G1L/4   |
|                              | Short type  | 4               | 0.18         | CDTS250G1S/4   |

## Terminal poles

| Description                                               | Weight (lbs) | AC thermal amp rating | AC rated voltage | Catalog number |
|-----------------------------------------------------------|--------------|-----------------------|------------------|----------------|
| Mounting separately on base, plate protected construction | 0.88         | 200                   | 600              | CDD200P        |

## Shaft extension coupler

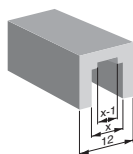
| Description                                                                  | For use on:               | Weight (lbs) | Catalog number    |
|------------------------------------------------------------------------------|---------------------------|--------------|-------------------|
| Joins two shafts together for applications where extended length is required | 6mm shafts<br>12mm shafts | 0.26         | BDZX167<br>BDZX95 |

Fusible

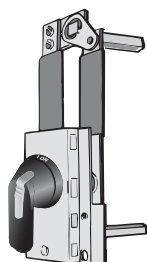
Non-Fused

Enclosed Fused

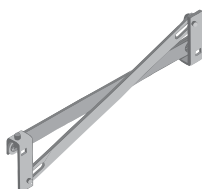
Enclosed Non-Fused

CDZK19  
(X=6mm)

BDZW2



CDZW26



BDZW10

**Shaft adapter**

| Description                                                                 | For use on: |  | Catalog number |
|-----------------------------------------------------------------------------|-------------|--|----------------|
| Adapts one end of a 6mm shaft to 12mm.<br>Use with shaft extension coupler. | 6mm shafts  |  | CDZK19         |

**Conversion mechanisms**

| Description                          | Weight (lbs) | UL/NEMA type   | Catalog number  |
|--------------------------------------|--------------|----------------|-----------------|
| 6 and 8 pole<br>Mechanical interlock | 1.52<br>0.55 | -----<br>----- | BDZW2<br>BDZW10 |
| Transfer                             | 6.17         | 1,3R,12        | CDZW25          |
| Bypass                               | 7.28         | 1,3R,12        | CDZW26          |

Fusible

Non-Fused

Enclosed Fused

Enclosed Non-Fused



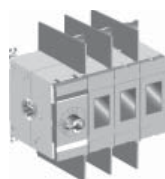
400A

# Non-Fusible Disconnect Switches



For a complete assembly,  
please select one of each:

- 1 switch
- 1 handle
- 1 shaft
- 1 terminal lug kit



CDNF400U03



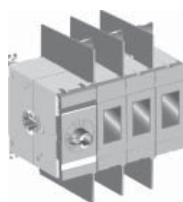
BDS280



BDH114



CDTL400



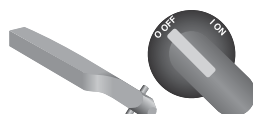
CDNF400U03



BDH112-117



BDS\_



BDS\_45



CDTL400

## Non-Fusible 3 pole and 4 pole 400A Switch

200 AMP, 600V

| UL<br>general<br>purpose<br>amp rating | IEC AC21<br>Amp<br>Rating | Maximum horsepower rating |      |      |      |      | Catalog<br>number |
|----------------------------------------|---------------------------|---------------------------|------|------|------|------|-------------------|
|                                        |                           | Three phase               |      |      |      |      |                   |
|                                        |                           | 200V                      | 208V | 240V | 480V | 600V |                   |
| 3-pole                                 |                           |                           |      |      |      |      |                   |
| 400                                    | 630                       | 100                       | 100  | 125  | 250  | 350  | CDNF400U03        |
| 4-pole                                 |                           |                           |      |      |      |      |                   |
| 400                                    | 630                       | 100                       | 100  | 125  | 250  | 350  | CDNF400U04        |

## Pistol handles - .47 x .47" ( 12 x 12mm)

| UL/NEMA type | IEC type | Color   | Length<br>inches/mm | Marking      | Defeatable | Padlockable | Weight<br>(lbs) | Catalog<br>number |
|--------------|----------|---------|---------------------|--------------|------------|-------------|-----------------|-------------------|
| 1,3R,12      | IP65     | Black   | 4.9/125             | O/I & Off/On | Yes        | Yes         | 0.39            | BDH112            |
| 1,3R,12      | IP65     | Red/Yel | 4.9/125             | O/I & Off/On | Yes        | Yes         | 0.39            | BDH113            |
| 1,3R,12      | IP65     | Black   | 5.7/145             | O/I & Off/On | Yes        | Yes         | 0.39            | BDH114            |
| 1,3R,12      | IP65     | Red/Yel | 5.7/145             | O/I & Off/On | Yes        | Yes         | 0.39            | BDH115            |
| 1,3R,12      | IP65     | Black   | 6.9/175             | O/I & Off/On | Yes        | Yes         | 0.41            | BDH116            |
| 1,3R,12      | IP65     | Red/Yel | 6.9/175             | O/I & Off/On | Yes        | Yes         | 0.41            | BDH117            |
| 1,3R,4,4X,12 | IP66     | Black   | 5.7/145             | O/I & Off/On | Yes        | Yes         | 0.39            | CDHXB12           |
| 1,3R,4,4X,12 | IP66     | Red/Yel | 5.7/145             | O/I & Off/On | Yes        | Yes         | 0.39            | CDHXY12           |
| 1,3R,4,4X,12 | IP66     | Black   | 6.9/175             | O/I & Off/On | Yes        | Yes         | 0.41            | CDHXB22           |
| 1,3R,4,4X,12 | IP66     | Red/Yel | 6.9/175             | O/I & Off/On | Yes        | Yes         | 0.41            | CDHXY22           |
| 1,3R,4,4X,12 | IP65     | Metal   | 8.7/220             | Off/On       | ---        | Yes         | 1.50            | BDHB              |

## Shafts - .47 x .47" ( 12 x 12mm)

| Shaft length<br>(inches/mm) | Mounting dept<br>(inches) | Weight<br>(lbs) | Catalog number |
|-----------------------------|---------------------------|-----------------|----------------|
| 11.0/280                    | 10.2-14.5                 | 0.77            | BDS280         |
| 12.8/325                    | 12.0-16.3                 | 0.90            | BDS325         |
| 15.6/395                    | 14.8-19.1                 | 1.10            | BDS395         |
| 18.3/465                    | 17.5-21.9                 | 1.32            | BDS465         |
| 21.1/535                    | 20.3-24.6                 | 1.54            | BDS535         |

## Twisted shafts - rotates handle 45° .47 x .47" ( 12 x 12mm)

| Shaft length<br>(inches/mm) | Mounting dept<br>(inches) | Weight<br>(lbs) | Catalog number |
|-----------------------------|---------------------------|-----------------|----------------|
| 11.0/280                    | 10.2-14.5                 | 0.77            | BDS28045       |
| 12.8/325                    | 12.0-16.3                 | 0.90            | BDS32545       |
| 18.3/465                    | 17.5-21.5                 | 1.32            | BDS46545       |

## Direct mount handle - TEST-OFF-ON

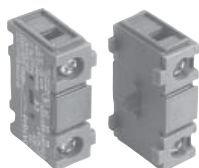
| Description                                                       | Color            | (lbs)        | Catalog number     |
|-------------------------------------------------------------------|------------------|--------------|--------------------|
| Up to 3 padlocks in OFF-position.<br>Includes shaft and mechanism | Black<br>Red/Yel | 0.44<br>0.44 | CDHTB40<br>CDHTY40 |

Fusible

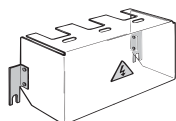
Non-Fused

Enclosed Fused

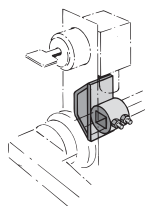
Enclosed Non-Fused



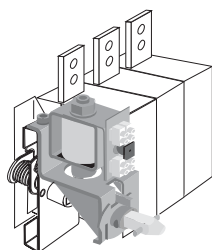
CDAUX10, CDAUX01k



CDTS403



CDETL-ZW5



BDZW95

**Terminal Lug Kits**

| For use on: | Wire Size    | Wire Type | Description      | Terminal lugs per kit | Weight (lbs) | Catalog number |
|-------------|--------------|-----------|------------------|-----------------------|--------------|----------------|
| CDNF400U03  | #2-600kcmil  | Cu/Al     | ---              | 6                     | 0.5          | CDTL400        |
| CDNF400U04  | #2-600kcmil  |           | ---              | 3                     | 0.5          | CDTL400/3P     |
|             | (6) 14-6 AWG |           | Distribution lug | 3                     | 0.5          | CDTL406        |

**Auxiliary Contacts**

Mounting on the left side of the switch: Max. 8 auxiliary contact blocks with the CDAUXM28

Mounting under the mechanism cover: Max. 4 auxiliary contact blocks

| Description      | For use on:            | Weight (lbs) | Catalog number      |
|------------------|------------------------|--------------|---------------------|
| 1 N.O.<br>1 N.C. | CDNF400U03, CDNF400U04 | 0.07<br>0.07 | CDAUX10<br>CDAUX01K |

**Module for auxiliary contacts**

| Description                                   | Weight (lbs) | Catalog number |
|-----------------------------------------------|--------------|----------------|
| Screw mounting to the left side of the switch | 0.1          | CDAUXM28       |

**Terminal shrouds**

| For use on: | Description | Number of poles | Weight (lbs) | Catalog number  |
|-------------|-------------|-----------------|--------------|-----------------|
| CDNF400U03  | 3 pole      |                 |              | CDTS403         |
| CDNF400U04  |             |                 |              | CONTACT FACTORY |

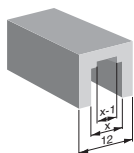
**Locking accessories**

| Description                                                                                                                                                           | For use on  | Weight (lbs) | Catalog number |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------|----------------|
| <b>Cam attachment</b> for Kirk Key, Castell, Lowe & Fletcher and Ronis interlock. Cam attachment for adapting to the interlock system. The interlock is not included. | 12mm shafts | 0.29         | CDETL-ZW5      |

**Shaft extension coupler**

| Description                                                                  | For use on: | Weight (lbs) | Catalog number |
|------------------------------------------------------------------------------|-------------|--------------|----------------|
| Joins two shafts together for applications where extended length is required | 12mm shafts | 0.26         | BDZW95         |

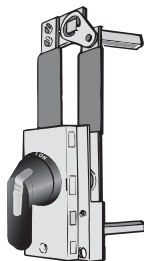
# Accessories for 400A Non-Fusible Disconnect Switches



CDZK19  
(x=6mm)



BDZW9



BDZW12



BDZW3, 14, 15

## Shaft adapter

| Description                                                                 | For use on: | Catalog number |
|-----------------------------------------------------------------------------|-------------|----------------|
| Adapts one end of a 6mm shaft to 12mm.<br>Use with shaft extension coupler. | 6mm shafts  | CDZK19         |

## Conversion mechanisms

| Description                        | Weight (lbs)         | Catalog number            |
|------------------------------------|----------------------|---------------------------|
| 6 and 8 pole<br>Transfer<br>Bypass | 2.42<br>10.1<br>8.81 | BDZW9<br>BDZW12<br>BDZW13 |
| Mechanical Interlock               | 1.26<br>1.15<br>2.64 | BDZW3<br>BDZW14<br>BDZW15 |

Fusible

Non-Fused

Enclosed Fused

Enclosed Non-Fused

For a complete assembly, please  
select one of each:

- 1 switch
- 1 handle
- 1 shaft
- 1 terminal lug kit



BDNF600A

+



BDS280

+

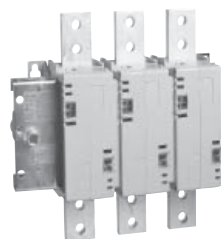


BDH116

+



BDTL26



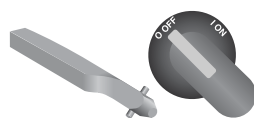
BDNF800A



BDH112-117



BDS280



BDS\_\_45

**600 – 800 Amp switches, 600V**

| UL<br>general<br>purpose<br>amp rating | IEC<br>AC21<br>amp<br>rating | Maximum horsepower rating |      |      |      |      | Catalog<br>number      |
|----------------------------------------|------------------------------|---------------------------|------|------|------|------|------------------------|
|                                        |                              | 200V                      | 208V | 240V | 480V | 600V |                        |
| <b>2 pole</b>                          | 600                          | —                         | —    | —    | —    | —    | BDNF600A2<br>BDNF800A2 |
|                                        | 800                          | —                         | —    | —    | —    | —    |                        |
| <b>3 pole</b>                          | 600                          | 150                       | 150  | 200  | 400  | 500  | BDNF600A<br>BDNF800A   |
|                                        | 800                          | 200                       | 200  | 250  | 500  | 600  |                        |
| <b>4 pole</b>                          | 600                          | 150                       | 150  | 200  | 400  | 500  | BDNF600A4<br>BDNF800A4 |
|                                        | —                            | 200                       | 200  | 250  | 500  | 600  |                        |

**Pistol handles — for use with shafts  $\frac{1}{4}$ " x  $\frac{1}{2}$ " (12 x 12 mm)**

| NEMA<br>type | IEC<br>type | Color | Length<br>in/mm | Marking      | Defeatable | Padlockable | Weight<br>(lbs) | Catalog<br>number |
|--------------|-------------|-------|-----------------|--------------|------------|-------------|-----------------|-------------------|
| 1,3R,12      | IP65        | Blk   | 4.9/125         | O/I & Off/On | Yes        | Yes         | 0.39            | BDH112            |
| 1,3R,12      | IP65        | R/Y   | 4.9/125         | O/I & Off/On | Yes        | Yes         | 0.39            | BDH113            |
| 1,3R,12      | IP65        | Blk   | 5.7/145         | O/I & Off/On | Yes        | Yes         | 0.39            | BDH114            |
| 1,3R,12      | IP65        | R/Y   | 5.7/145         | O/I & Off/On | Yes        | Yes         | 0.39            | BDH115            |
| 1,3R,12      | IP65        | Blk   | 6.9/175         | O/I & Off/On | Yes        | Yes         | 0.41            | BDH116            |
| 1,3R,12      | IP65        | R/Y   | 6.9/175         | O/I & Off/On | Yes        | Yes         | 0.41            | BDH117            |
| 1,3R,4,4X,12 | IP66        | Blk   | 5.7/145         | O/I & Off/On | Yes        | Yes         | 0.39            | CDHXB12           |
| 1,3R,4,4X,12 | IP66        | R/Y   | 5.7/145         | O/I & Off/On | Yes        | Yes         | 0.39            | CDHXY12           |
| 1,3R,4,4X,12 | IP66        | Blk   | 6.9/175         | O/I & Off/On | Yes        | Yes         | 0.41            | CDHXB22           |
| 1,3R,4,4X,12 | IP66        | R/Y   | 6.9/175         | O/I & Off/On | Yes        | Yes         | 0.41            | CDHXY22           |
| 1,3R,4,4X,12 | IP65        | Metal | 8.7/220         | Off/On       | —          | Yes         | 1.50            | BDH8              |

**Shafts — for use with pistol handles  $\frac{1}{4}$ " x  $\frac{1}{2}$ " (12 x 12 mm)**

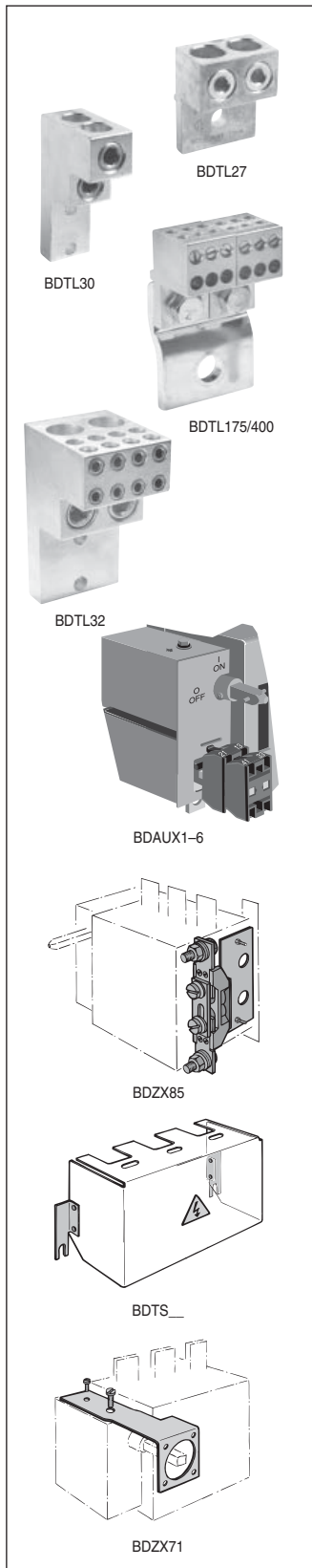
| Shaft length<br>inches/mm |  | Mounting depth <sup>①</sup><br>in inches | Weight<br>(lbs) | Catalog<br>number |
|---------------------------|-------------------------------------------------------------------------------------|------------------------------------------|-----------------|-------------------|
| 11.0/280                  |                                                                                     | 10.2 – 14.5                              | 0.77            | BDS280            |
| 12.8/325                  |                                                                                     | 12.0 – 16.3                              | 0.90            | BDS325            |
| 15.6/395                  |                                                                                     | 14.8 – 19.1                              | 1.10            | BDS395            |
| 18.3/465                  |                                                                                     | 17.5 – 21.9                              | 1.32            | BDS465            |
| 21.1/535                  |                                                                                     | 20.3 – 24.6                              | 1.54            | BDS535            |

**Twisted shafts — rotates handle 45°  $\frac{1}{4}$ " x  $\frac{1}{2}$ " (12 x 12 mm)**

| Shaft length<br>inches/mm |  | Mounting depth <sup>①</sup><br>in inches | Weight<br>(lbs) | Catalog<br>number |
|---------------------------|-------------------------------------------------------------------------------------|------------------------------------------|-----------------|-------------------|
| 11.0/280                  |                                                                                     | 10.2 – 14.5                              | 0.77            | BDS28045          |
| 12.8/325                  |                                                                                     | 12.0 – 16.3                              | 0.90            | BDS32545          |
| 18.3/465                  |                                                                                     | 17.5 – 21.9                              | 1.32            | BDS46545          |

① Mounting depth is the distance from the outside of the door to the disconnect switch mounting plate. Shaft can be cut to desired length.

# Accessories for 600A – 800A Non-Fusible Disconnect Switches



## Terminal lug kits

| For use on:           | Wire size                 | Kit weight (lbs.) | Wire type | Terminal lugs per kit | Kit catalog number |
|-----------------------|---------------------------|-------------------|-----------|-----------------------|--------------------|
| BDNF600A              | (2) #2 – 600 kcmil        | 4.62              | Cu/Al     | 6                     | BDTL27             |
| BDNF800A              | (2) #2 – 600 kcmil        | 6.90              | Cu/Al     | 6                     | BDTL30             |
| BDNF800A <sup>①</sup> | (8) 2/0 + (2)#2 600 kcmil | 6.90              | Cu/Al     | 3                     | BDTL32             |
| BDNF600A <sup>①</sup> | (12) #14 – 6              | 1.10              | Cu/Al     | 6                     | BDTL175/400        |

## Auxiliary contacts<sup>②</sup>

| Description     | For use on:           | Weight (lbs) | AC thermal amp rating | AC rated voltage | Catalog number |
|-----------------|-----------------------|--------------|-----------------------|------------------|----------------|
| 1 N.O. + 1 N.C. | BDNF600 –<br>BDNF800A | 0.20         | 10                    | 600              | BDAUX1         |
| 2 N.O. + 2 N.C. |                       | 0.26         | 10                    | 600              | BDAUX2         |
| 4 N.O. + 4 N.C. |                       | 0.40         | 10                    | 600              | BDAUX3         |
| 2 N.O.          |                       | 0.18         | 10                    | 600              | BDAUX4         |
| 4 N.O.          |                       | 0.25         | 10                    | 600              | BDAUX5         |
| 8 N.O.          |                       | 0.40         | 10                    | 600              | BDAUX6         |

## Terminal poles

| Description                                             | For use on: | Weight (lbs) | AC thermal amp rating | AC rated voltage | Catalog number |
|---------------------------------------------------------|-------------|--------------|-----------------------|------------------|----------------|
| Detachable neutral mounts on side of switch or DIN rail | BDNF600A    | 1.04         | 400                   | 600              | BDZX85         |

## Terminal shrouds

| Description                               | For use on: | Weight (lbs) |  | Catalog number |
|-------------------------------------------|-------------|--------------|--|----------------|
| Includes one shroud for line or load side | BDNF600A    | 0.62         |  | BDTS4          |
|                                           | BDNF800A    | 0.66         |  | BDTS6A         |
|                                           | BDNF800A    | 0.88         |  | BDTS8A         |

## Handle support bracket

| Description                                                    | For use on: | Weight (lbs) |  | Catalog number |
|----------------------------------------------------------------|-------------|--------------|--|----------------|
| Allows handle to be directly mounted to switch behind the door | BDNF600A    | 0.51         |  | BDZX73         |
|                                                                | BDNF800A    | 0.88         |  | BDZX71         |

<sup>①</sup> A load side distribution lug eliminates the need to purchase, install and wire a separate distribution block.  
<sup>②</sup> UL File E57057

Fusible

Non-Fused

Enclosed Fused

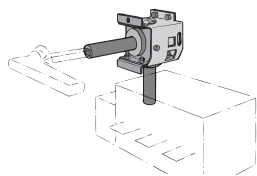
Enclosed Non-Fused

Fusible

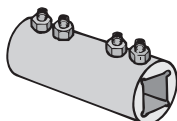
Non-Fused

Enclosed Fused

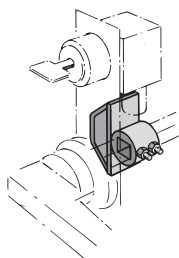
Enclosed Non-Fused



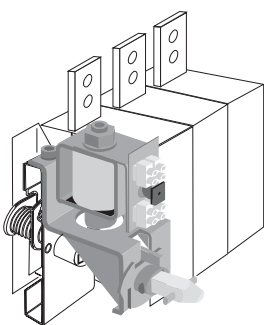
BDZX108



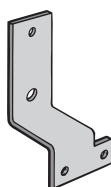
BDZW95



CDETL-ZW5



CDETL-ZT80\_



CDETL-ZT100

**90° angle kit**

| Description                                                      | For use on:          | Weight (lbs) |  | Catalog number |
|------------------------------------------------------------------|----------------------|--------------|--|----------------|
| Converts switch mechanism from front operation to side operation | BDNF600A<br>BDNF800A | 4.63         |  | BDZX108        |

**Shaft extension coupler**

| Description                                                                  | For use on: | Weight (lbs) |  | Catalog number |
|------------------------------------------------------------------------------|-------------|--------------|--|----------------|
| Joins two shafts together for applications where extended length is required | 12mm shafts | 0.26         |  | BDZW95         |

**Locking accessories**

| Description                                                                                                                                                                                                                                                                                                                                                                    | For use on:          | Weight (lbs) |  | Catalog number                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------|--|--------------------------------|
| <b>Cam attachment</b> for Kirk Key, Castell, Lowe & Fletcher and Ronis interlock. For adapting to the interlock system. The interlock is not included.                                                                                                                                                                                                                         | 12mm shafts          | 0.29         |  | CDETL-ZW5                      |
| <b>Electrical interlock</b> ① Closed circuit principle for interlocking the switch movement. When the coil circuit is dead, A-types cannot be operated to ON-position and L-types cannot be operated to ON- or OFF-position. Coil voltages 110VAC, 220VAC, 24VDC, 48VDC, 60 VDC, 110VDC, 220VDC, P = 15W<br>$U = 0.7 - 1.1 U_n$<br>(U = coil voltage, $U_n$ = nominal voltage) | BDNF600A<br>BDNF800A | 2.42         |  | CDETL-ZT80A/*<br>CDETL-ZT80L/* |
| <b>Mounting bracket</b>                                                                                                                                                                                                                                                                                                                                                        | BDNF600A             | 0.40         |  | CDETL-ZT100                    |

\* – Coil voltage

① CDETL-ZT100 mounting bracket required for BDNF600A

# Accessories for 600A – 800A Non-Fusible Disconnect Switches

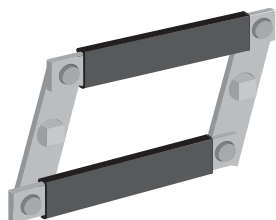


Fusible

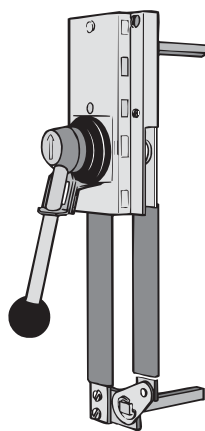
Non-Fused

Enclosed Fused

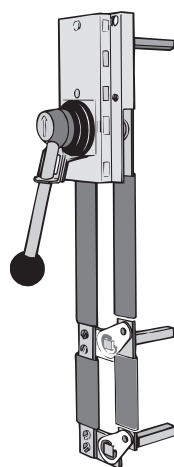
Enclosed Non-Fused



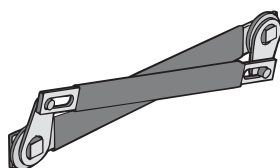
BDZW9



BDZW12



BDZW13



BDZW3, 14, 15

## Conversion mechanisms

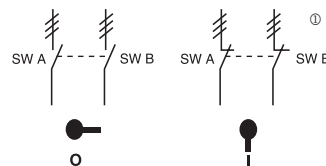
- Switches are not included

| Description                       | For use on:          | Weight (lbs) | Catalog number |
|-----------------------------------|----------------------|--------------|----------------|
| 6 or 8 pole<br>Transfer<br>Bypass | BDNF600A<br>BDNF800A | 2.42         | BDZW9          |
|                                   |                      | 10.1         | BDZW12         |
|                                   |                      | 8.81         | BDZW13         |
| Mechanical interlock              |                      | 1.26         | BDZW3          |
|                                   |                      | 1.15         | BDZW14         |
|                                   |                      | 2.64         | BDZW15         |

## 6 or 8 pole — BDZW9

6 (8) pole mechanism allows two switches controlled by one handle to open or close simultaneously. One shaft included. Equipment required for a complete installation:

- One conversion mechanism
- Two disconnect switches
- One handle
- One additional shaft (Only one shaft is included with mechanism).



|       | POS.O | POS.I |
|-------|-------|-------|
| SW. A | O     | X     |
| SW. B | O     | X     |

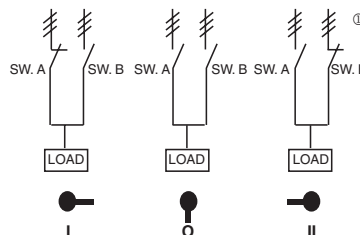
X = Closed  
O = Open

## Transfer — BDZW12

Transfer mechanism manually transfers between two power sources using two switches and a center OFF position. A 3 position handle is included. Shafts included.

Equipment required for a complete installation:

- One conversion mechanism
- Two disconnect switches



|       | POS. I | POS.O | POS.II |
|-------|--------|-------|--------|
| SW. A | X      | O     | O      |
| SW. B | O      | O     | X      |

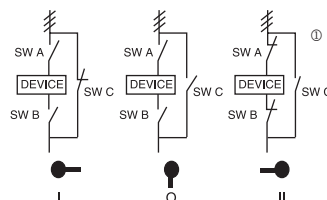
X = Closed  
O = Open

## Bypass — BDZW13

Bypass mechanism operates three switches: Two switches in series and one changeover switch to allow power bypass. A 3 position handle is included. (UL Type 1, 3R, 4, 4X, 12). Shafts included.

Equipment required for a complete installation:

- One conversion mechanism
- Three disconnect switches



|       | POS. I | POS.O | POS.II |
|-------|--------|-------|--------|
| SW. A | O      | O     | X      |
| SW. B | O      | O     | X      |
| SW. C | X      | O     | O      |

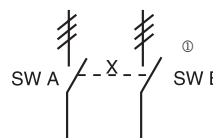
X = Closed  
O = Open

## Mechanical interlock — BDZW3, BDZW14, BDZW15

Mechanical interlock mechanism prevents both switches from being in the ON position at the same time.

Equipment required for a complete installation:

- One conversion mechanism
- Two disconnect switches
- Two shafts
- Two handles



|       | SW. A<br>POS. I | SW. B<br>POS. I |
|-------|-----------------|-----------------|
| SW. A | X               | O               |
| SW. B | O               | X               |

X = Closed  
O = Open

① = Three poles

For a complete assembly  
please select one of each:

- 1 switch
- 1 handle
- 1 shaft
- 1 terminal lug kit



BDNF1200

+



BDS280



BDH117

+



BDTL28

**1200 – 3150 Amp switches, 600V**

| UL<br>general<br>purpose<br>amp rating | IEC<br>AC21<br>amp<br>rating | Maximum horsepower rating                                                                                                                                                                                                                                                        | Catalog<br>number                                |
|----------------------------------------|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| <b>2 pole</b>                          |                              | The US National Electric Code does not specify HP ratings for switches this large. Please select a switch based on 115% of application FLA. For example: a motor with an FLA of 800A would require a 1200A switch: 800A x 115% = 920A, the closest higher rated switch is 1200A. | BDNF12002<br>BDNF16002<br>BDNF20002<br>BDNF31502 |
| 1200                                   | 1600                         |                                                                                                                                                                                                                                                                                  |                                                  |
| 1600                                   | 2500                         |                                                                                                                                                                                                                                                                                  |                                                  |
| 2000                                   | 2500                         |                                                                                                                                                                                                                                                                                  |                                                  |
| —                                      | 3150                         |                                                                                                                                                                                                                                                                                  |                                                  |
| <b>3 pole</b>                          |                              |                                                                                                                                                                                                                                                                                  | BDNF1200<br>BDNF1600<br>BDNF2000<br>BDNF3150     |
| 1200                                   | 1600                         |                                                                                                                                                                                                                                                                                  |                                                  |
| 1600                                   | 2500                         |                                                                                                                                                                                                                                                                                  |                                                  |
| 2000                                   | 2500                         |                                                                                                                                                                                                                                                                                  |                                                  |
| —                                      | 3150                         |                                                                                                                                                                                                                                                                                  |                                                  |
| <b>4 pole</b>                          |                              |                                                                                                                                                                                                                                                                                  | BDNF12004<br>BDNF16004<br>BDNF20004<br>BDNF31504 |
| —                                      | 1600                         |                                                                                                                                                                                                                                                                                  |                                                  |
| —                                      | 2500                         |                                                                                                                                                                                                                                                                                  |                                                  |
| —                                      | 2500                         |                                                                                                                                                                                                                                                                                  |                                                  |
| —                                      | 3150                         |                                                                                                                                                                                                                                                                                  |                                                  |

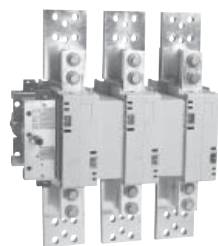
**Pistol handles** — for use with shaft ☐ .47 x .47" ( ☐ 12 x 12mm)

| NEMA<br>type                        | IEC<br>type | Color      | Length<br>mm | Marking      | Defeatable | Padlockable | Weight<br>(lbs) | Catalog<br>number |
|-------------------------------------|-------------|------------|--------------|--------------|------------|-------------|-----------------|-------------------|
| <b>For use with BDNF1200</b>        |             |            |              |              |            |             |                 |                   |
| 1,3R,12                             | IP65        | Black      | 5.7/145      | O/I & Off/On | Yes        | Yes         | 0.39            | BDH114            |
| 1,3R,12                             | IP65        | Red/Yellow | 5.7/145      | O/I & Off/On | Yes        | Yes         | 0.39            | BDH115            |
| 1,3R,12                             | IP65        | Black      | 6.9/175      | O/I & Off/On | Yes        | Yes         | 0.41            | BDH116            |
| 1,3R,12                             | IP65        | Red/Yellow | 6.9/175      | O/I & Off/On | Yes        | Yes         | 0.41            | BDH117            |
| 1,3R,4,4X,12                        | IP66        | Black      | 5.7/145      | O/I & Off/On | Yes        | Yes         | 0.39            | CDHXB12           |
| 1,3R,4,4X,12                        | IP66        | Red/Yellow | 5.7/145      | O/I & Off/On | Yes        | Yes         | 0.39            | CDHXY12           |
| 1,3R,4,4X,12                        | IP66        | Black      | 6.9/175      | O/I & Off/On | Yes        | Yes         | 0.41            | CDHXB22           |
| 1,3R,4,4X,12                        | IP65        | Red/Yellow | 6.9/175      | O/I & Off/On | Yes        | Yes         | 0.41            | CDHXY22           |
| <b>For use with BDNF1600 – 3150</b> |             |            |              |              |            |             |                 |                   |
| 1,3R,4,4X,12                        | IP65        | Metal      | 8.7/220      | Off/On       | —          | Yes         | 1.50            | BDH8              |

**Shafts** — for use with pistol handles ☐ .47 x .47" ( ☐ 12 x 12 mm)

| Shaft length<br>inches/mm           | Mounting depth <sup>①</sup><br>inches | Weight<br>(lbs) | Catalog<br>number |
|-------------------------------------|---------------------------------------|-----------------|-------------------|
| <b>For use with BDNF1200</b>        |                                       |                 |                   |
| 11.0/280                            | 11.6 – 15.3                           | 0.77            | BDS280            |
| 12.8/325                            | 13.7 – 17.1                           | 0.90            | BDS325            |
| 15.6/397                            | 16.2 – 19.9                           | 1.10            | BDS395            |
| 18.3/465                            | 18.9 – 22.6                           | 1.32            | BDS465            |
| 21.1/536                            | 21.7 – 25.4                           | 1.54            | BDS535            |
| <b>For use with BDNF1600 – 3150</b> |                                       |                 |                   |
| 12.8/325                            | 13.7 – 17.1                           | 0.90            | BDS325            |
| 15.6/397                            | 16.2 – 19.9                           | 1.10            | BDS395            |
| 18.3/465                            | 18.9 – 22.6                           | 1.32            | BDS465            |
| 21.1/536                            | 21.7 – 25.4                           | 1.54            | BDS535            |

① Mounting depth is the distance from the outside of the door to the disconnect switch mounting plate. Shaft can be cut to desired length.

BDNF1600  
BDNF2000  
BDNF3150

BDH114



BDH115



BDH8



BDS325

Fusible

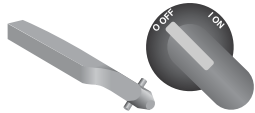
Non-Fused

Enclosed Fused

Enclosed Non-Fused



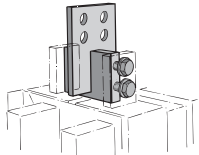
# Accessories for 1200A – 3150A Non-Fusible Disconnect Switches



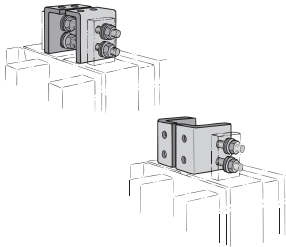
BDS\_45



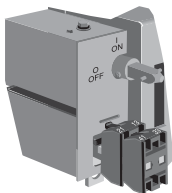
BDTL28  
BDTL28/2



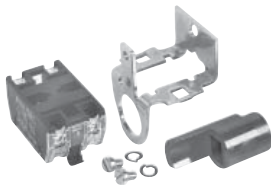
BDBUS115



BDBUS114



BDAUX1



BDAUX1

**Twisted shafts** – Rotates handle 45° □ .47 x .47" (□12 x 12 mm)

| Shaft length<br>inches/mm           | Mounting depth <sup>①</sup><br>inches | Weight<br>(lbs) | Catalog<br>number |
|-------------------------------------|---------------------------------------|-----------------|-------------------|
| <b>For use with BDNF1200</b>        |                                       |                 |                   |
| 11.0/280                            | 11.6 – 15.3                           | 0.77            | BDS28045          |
| 12.8/325                            | 13.7 – 17.1                           | 0.90            | BDS32545          |
| 18.3/465                            | 18.9 – 22.6                           | 1.32            | BDS46545          |
| <b>For use with BDNF1600 – 3150</b> |                                       |                 |                   |
| 12.8/325                            | 16.2 – 19.9                           | 0.90            | BDS32545          |
| 18.3/465                            | 18.9 – 22.6                           | 1.32            | BDS46545          |

## Terminal lug kits

| For use on:                      | Wire<br>size              | Kit weight<br>(lbs.) | Wire<br>type | Terminal<br>lugs per kit | Kit catalog<br>number |
|----------------------------------|---------------------------|----------------------|--------------|--------------------------|-----------------------|
| BDNF1200 & BDNF1600              | (4) #2 – 600kcmil         | 10.44                | Cu/Al        | 6                        | BDTL28                |
| BDNF1200 & BDNF1600 <sup>②</sup> | (8) 2/0 + (2) #2 600kcmil | 10.44                | Cu/Al        | 3                        | BDTL32                |
| BDNF2000 & BDNF3150              | (8) #2 – 600kcmil         | 20.88                | Cu/Al        | 12                       | BDTL28/2              |

BDTL32 Power distribution lugs eliminate the need to purchase a separate distribution block

## Busbar connections

| Description                            | For use on:            | Weight<br>(lbs) | Catalog<br>number |
|----------------------------------------|------------------------|-----------------|-------------------|
| Vertical mounting <sup>③</sup>         | BDNF1600 –<br>BDNF3150 | 46.2            | BDBUS115          |
| Vertical, back or<br>edgewise mounting |                        | 31.0            | BDBUS114          |

## Auxiliary contacts<sup>④</sup>

| Description     | For use on:            | Weight<br>(lbs) | AC thermal<br>amp rating | AC rated<br>voltage | Catalog<br>number |
|-----------------|------------------------|-----------------|--------------------------|---------------------|-------------------|
| 1 N.O. + 1 N.C. | BDNF1200 –<br>BDNF3150 | 0.20            | 10                       | 600                 | BDAUX1            |
| 2 N.O. + 2 N.C. |                        | 0.26            | 10                       | 600                 | BDAUX2            |
| 4 N.O. + 4 N.C. |                        | 0.40            | 10                       | 600                 | BDAUX3            |
| 2 N.O.          |                        | 0.18            | 10                       | 600                 | BDAUX4            |
| 4 N.O.          |                        | 0.25            | 10                       | 600                 | BDAUX5            |
| 8 N.O.          |                        | 0.40            | 10                       | 600                 | BDAUX6            |

## Terminal shrouds

| Description                                  | For use on: | Weight<br>(lbs) | Catalog<br>number |
|----------------------------------------------|-------------|-----------------|-------------------|
| Includes one shroud<br>for line or load side | BDNF1200    | 1.20            | BDTS12            |

① Mounting depth is the distance from the outside of the door to the disconnect switch mounting plate. Shaft can be cut to desired length.

② A load side distribution lug eliminates the need to purchase, install and wire a separate distribution block.

③ Provided as standard with BDNF1600, BDNF2000 and BDNF3150.

Fusible

Non-Fused

Enclosed Fused

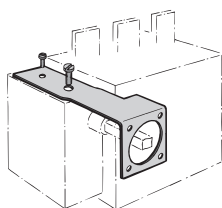
Enclosed Non-Fused

Fusible

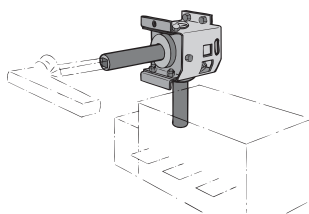
Non-Fused

Enclosed Fused

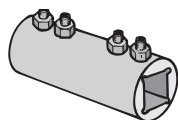
Enclosed Non-Fused



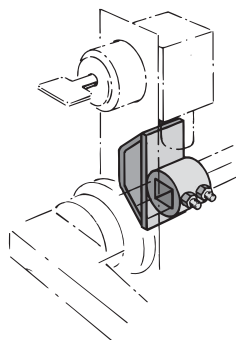
BDZX71



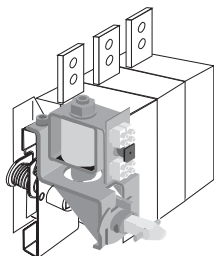
BDZX90



BDZW95



CDETL-ZW5



CDETL-ZT80

**Handle support bracket**

| Description                                                    | For use on:         | Weight (lbs) |  | Catalog number |
|----------------------------------------------------------------|---------------------|--------------|--|----------------|
| Allows handle to be directly mounted to switch behind the door | BDNF1200 – BDNF3150 | 0.88         |  | BDZX71         |

**90° angle kit**

| Description                                                      | For use on:         | Weight (lbs) |  | Catalog number |
|------------------------------------------------------------------|---------------------|--------------|--|----------------|
| Converts switch mechanism from front operation to side operation | BDNF1200 – BDNF3150 | 4.63         |  | BDZX90         |

**Shaft extension coupler**

| Description                                                                  | For use on: | Weight (lbs) |  | Catalog number |
|------------------------------------------------------------------------------|-------------|--------------|--|----------------|
| Joins two shafts together for applications where extended length is required | 12mm shafts | 0.26         |  | BDZW95         |

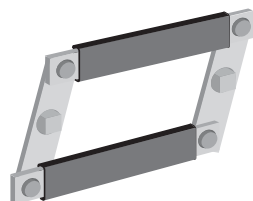
**Locking accessories**

| Description                                                                                                                                                                                                                                                                                                                                                                 | For use on:         | Weight (lbs) |  | Catalog number                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------|--|--------------------------------|
| <b>Cam attachment</b> for Kirk Key, Castell, Lowe & Fletcher and Ronis interlock. For adapting to the interlock system. The interlock is not included.                                                                                                                                                                                                                      | 12mm shafts         | 0.29         |  | CDETL-ZW5                      |
| <b>Electrical interlock</b> Closed circuit principle for interlocking the switch movement. When the coil circuit is dead, A-types cannot be operated to ON-position and L-types cannot be operated to ON- or OFF-position. Coil voltages 110VAC, 220VAC, 24VDC, 48VDC, 60 VDC, 110VDC, 220VDC, P = 15W<br>$U = 0.7 - 1.1 U_n$<br>(U= coil voltage, $U_n$ = nominal voltage) | BDNF1200 – BDNF3150 | 2.42         |  | CDETL-ZT80A/*<br>CDETL-ZT80L/* |

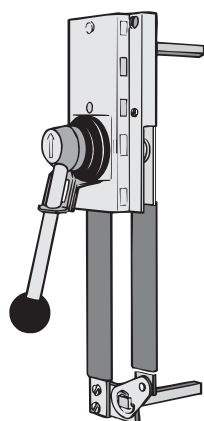


\* = Coil voltage

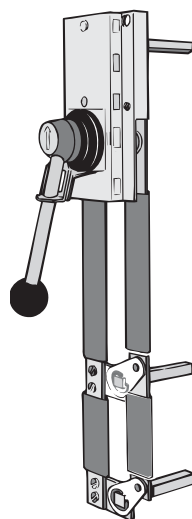
# Accessories for 1200A – 3150A Non-Fusible Disconnect Switches



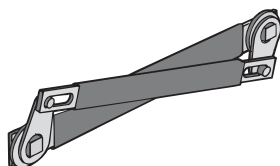
BDZW9



BDZW12



BDZW13



BDZW15

## Conversion mechanisms

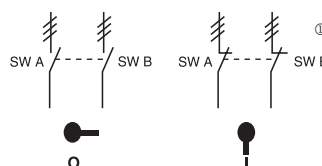
- Switches are not included

| Description                 | For use on:         | Weight (lbs)         | Catalog number            |
|-----------------------------|---------------------|----------------------|---------------------------|
| 6 or 8 pole Transfer Bypass | BDNF1200            | 2.42<br>10.1<br>8.81 | BDZW9<br>BDZW12<br>BDZW13 |
| Mechanical interlock        | BDNF1200 – BDNF3150 | 2.64                 | BDZW15                    |

## 6 or 8 pole — BDZW9

6 (8) pole mechanism allows two switches controlled by one handle to open or close simultaneously. One shaft included. Equipment required for a complete installation:

- One conversion mechanism.
- Two disconnect switches
- One handle
- One additional shaft (Only one shaft is included with mechanism)



|       | POS. O | POS. I |
|-------|--------|--------|
| SW. A | O      | X      |
| SW. B | O      | X      |

X = Closed  
O = Open

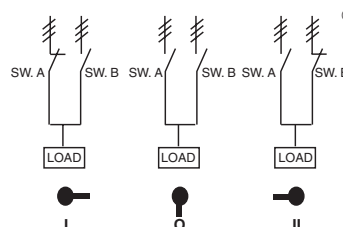
## Transfer — BDZW12

Transfer mechanism manually transfers between two power sources using two switches and a center OFF position. A 3 position handle is included.

Shafts included.

Equipment required for a complete installation:

- One conversion mechanism
- Two disconnect switches



|       | POS. I | POS. O | POS. II |
|-------|--------|--------|---------|
| SW. A | X      | O      | O       |
| SW. B | O      | O      | X       |

X = Closed  
O = Open

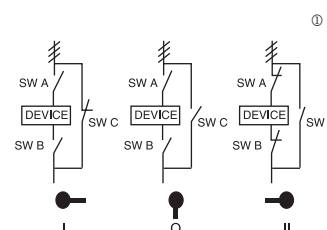
## Bypass — BDZW13

Bypass mechanism operates three switches: Two switches in series and one changeover switch to allow power bypass. A 3 position handle is included.

Shafts included.

Equipment required for a complete installation:

- One conversion mechanism
- Three disconnect switches



|       | POS. I | POS. O | POS. II |
|-------|--------|--------|---------|
| SW. A | O      | O      | X       |
| SW. B | O      | O      | X       |
| SW. C | X      | O      | O       |

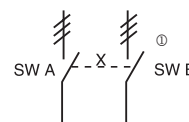
X = Closed  
O = Open

## Mechanical interlock — BDZW15

Mechanical interlock mechanism prevents both switches from being in the "ON" position at the same time. Handles are not included.

Equipment required for a complete installation:

- One conversion mechanism
- Two disconnect switches
- Two shafts
- Two handles



|       | SW. A<br>POS. I | SW. B<br>POS. I |
|-------|-----------------|-----------------|
| SW. A | X               | O               |
| SW. B | O               | X               |

X = Closed  
O = Open

① = Three poles

Fusible

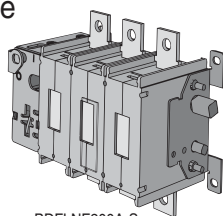
Non-Fused

Enclosed Fused

Enclosed Non-Fused

For a complete assembly, please select one of each:

- 1 switch
- 1 handle
- 1 shaft
- 1 terminal lug kit



BDFLNF200A-S

+



BDS240

+



BDH110SH

+



BDTL26

### Side operated switches — 3 pole

| UL<br>general<br>purpose<br>amp rating | IEC<br>AC21<br>amp<br>rating | Maximum horsepower rating |      |      |      |      | Weight<br>(lbs) | Catalog<br>number |
|----------------------------------------|------------------------------|---------------------------|------|------|------|------|-----------------|-------------------|
|                                        |                              | Three phase               |      |      |      |      |                 |                   |
|                                        |                              | 200V                      | 208V | 240V | 480V | 600V |                 |                   |
| 30                                     | 32                           | 5                         | 7.5  | 7.5  | 15   | 20   | 1.90            | BDFLNF30-S        |
| 60                                     | 63                           | 15                        | 15   | 15   | 30   | 50   | 3.90            | BDFLNF60-S        |
| 100                                    | 125                          | 25                        | 25   | 30   | 60   | 75   | 4.50            | BDFLNF100-S       |
| 175                                    | 200                          | 30                        | 30   | 40   | 75   | 100  | 6.61            | BDFLNF175-S       |
| 200                                    | 250                          | 60                        | 60   | 75   | 150  | 200  | 6.61            | BDFLNF200A-S      |
| 400                                    | 630                          | 100                       | 100  | 125  | 250  | 350  | 13.66           | BDFLNF400-S       |
| 600                                    | 800                          | 150                       | 150  | 200  | 400  | 500  | 13.66           | BDFLNF600A-S      |

### Handles

| UL<br>type                                     |  | Color      | Length<br>inches/mm | Marking      | Defeatable | Padlockable | Weight<br>(lbs) | Catalog<br>number |
|------------------------------------------------|--|------------|---------------------|--------------|------------|-------------|-----------------|-------------------|
| <b>For use with BDFLNF30-S</b>                 |  |            |                     |              |            |             |                 |                   |
| 1, 12, 3R                                      |  | Black      | 2.65/65             | O/1 & Off/On | Yes        | Yes         | 0.29            | BDH106SH          |
| 1, 12, 3R                                      |  | Red/Yellow | 2.65/65             | O/1 & Off/On | Yes        | Yes         | 0.29            | BDH107SH          |
| <b>For use with BDFLNF60-S — BDFLNF200A-S</b>  |  |            |                     |              |            |             |                 |                   |
| 1, 12, 3R                                      |  | Black      | 3.1/80              | O/1 & Off/On | Yes        | Yes         | 0.30            | BDH110SH          |
| 1, 12, 3R                                      |  | Red/Yellow | 3.1/80              | O/1 & Off/On | Yes        | Yes         | 0.30            | BDH111SH          |
| <b>For use with BDFLNF400-S — BDFLNF600A-S</b> |  |            |                     |              |            |             |                 |                   |
| 1, 12, 3R                                      |  | Black      | 4.9/145             | O/1 & Off/On | Yes        | Yes         | 0.39            | BDH114SH          |
| 1, 12, 3R                                      |  | Red/Yellow | 4.9/145             | O/1 & Off/On | Yes        | Yes         | 0.39            | BDH115SH          |
| 1, 12, 3R                                      |  | metal      | 4.9/145             | Off/On       | Yes        | Yes         | 1.50            | BDZX74            |

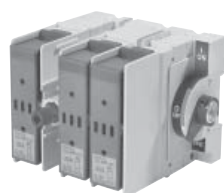
### Shafts

| For use with:        | Length<br>inches/mm | Description            | Weight<br>(lbs) | Catalog<br>number |
|----------------------|---------------------|------------------------|-----------------|-------------------|
| BDFLNF30-S           | 6.7/170             | .20 x .20" (5 x 5mm)   | 0.08            | CDS67P            |
| BDFLNF60 – 100       | 8.3/210             | .24 x .24" (6 x 6mm)   | 0.10            | BDS210            |
| BDFLNF175 – 200      | 9.5/240             | .31 x .31" (8 x 8mm)   | 0.26            | BDS240            |
| BDFLNF400-S – 600A-S | 12.8/325            | .47 X .47" (12 X 12mm) | 0.90            | BDS325            |

### Terminal lug kits

| For use on:  | Wire size          | Weight<br>(lbs) | Wire type | Lugs<br>per kit | Catalog<br>number |
|--------------|--------------------|-----------------|-----------|-----------------|-------------------|
| BDFLNF30-S   | #14 – 4            | —               | Cu        | —               | Integral          |
| BDFLNF60-S   | #14 – 4            | —               | Cu        | —               | Integral          |
| BDFLNF100-S  | #14 – 2/0          | 0.43            | Cu/Al     | 6               | BDTL24            |
| BDFLNF200A-S | #6 – 300 kcmil     | 0.93            | Cu/Al     | 6               | BDTL25            |
| BDFLNF400-S  | #2 – 600 kcmil     | 3.520           | Cu/Al     | 6               | BDTL26            |
| BDFLNF600A-S | (2) #2 – 600 kcmil | 4.62            | Cu/Al     | 6               | BDTL27            |

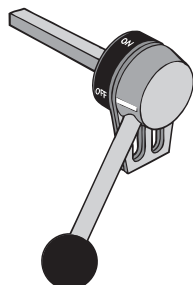
① Side operated switches available through 800A as IEC rated.



BDFLNF30-S



BDH107SH



BDZX74

CDS67P  
BDS240  
BDS325

BDTL24



BDTL25



BDTL27

# Flange Operated Non-Fusible Disconnect Switches 30A – 200A



Fusible

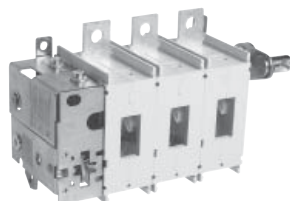
Non-Fused

Enclosed Fused

Enclosed Non-Fused

For a complete assembly,  
please select one of each:

- 1 switch
- 1 handle
- 1 shaft
- 1 terminal lug kit



BDFLNF200A-F



BDFHS12



BDFHNHS12



BDTL25

## Flange operated switches — 3 pole

| UL<br>general<br>purpose<br>amp rating | IEC<br>AC21<br>amp<br>rating | Maximum horsepower rating |      |      |      |      | Weight<br>(lbs) | Catalog<br>number |
|----------------------------------------|------------------------------|---------------------------|------|------|------|------|-----------------|-------------------|
|                                        |                              | Three phase               |      |      |      |      |                 |                   |
|                                        |                              | 200V                      | 208V | 240V | 480V | 600V |                 |                   |
| 30                                     | 40                           | 10                        | 10   | 10   | 20   | 30   | 2.80            | BDFLNF30-F        |
| 60                                     | 63                           | 20                        | 20   | 20   | 40   | 40   | 3.90            | BDFLNF60-F        |
| 100                                    | 115                          | 25                        | 25   | 25   | 50   | 40   | 4.50            | BDFLNF100-F       |
| 200                                    | 250                          | 60                        | 60   | 75   | 150  | 200  | 6.61            | BDFLNF200A-F      |

## Flange handles

| NEMA/UL<br>type |  | Color | Length<br>inches/mm | Marking      | Defeatable | Padlockable | Weight<br>(lbs) | Catalog<br>number |
|-----------------|--|-------|---------------------|--------------|------------|-------------|-----------------|-------------------|
| 1, 3R, 12       |  | Metal | 6.9/175             | O/I & OFF/ON | Yes        | Yes         | 3.52            | BDFHNHS12         |
| 4, 4X           |  | Metal | 6.9/175             | O/I & OFF/ON | Yes        | Yes         | 3.52            | BDFHNHS4          |

## Shafts

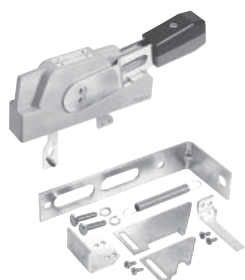
| Shaft length<br>inches |  | Weight<br>(lbs) | Catalog<br>number |
|------------------------|--|-----------------|-------------------|
| 12                     |  | 0.39            | BDFHS12           |
| 17                     |  | 0.55            | BDFHS17           |
| 22.5                   |  | 0.73            | BDFHS22           |

## Terminal lug kits

| For use on:                             | Wire size                         | Kit weight<br>(lbs) | Wire type | Terminal lugs<br>per kit | Catalog<br>number  |
|-----------------------------------------|-----------------------------------|---------------------|-----------|--------------------------|--------------------|
| BDFLNF30-F<br>BDFLNF60-F<br>BDFLNF100-F | #14 – #4<br>#14 – #4<br>#14 – 2/0 | —                   | Cu        | —                        | Standard<br>BDTL24 |
| BDFLNF200A-F                            | #6 – 300 kcmil                    | 0.93                | Cu/Al     | 6                        | BDTL25             |

## Door hardware – NEMA 12

| Description                                |  | Weight<br>(lbs) | Catalog<br>number |
|--------------------------------------------|--|-----------------|-------------------|
| Safety door latch, 2 point with 6" handle. |  | 1.92            | BBDHK             |
| Roller for 3 point latch, add to BBDHK     |  | .39             | BD3RL             |



BDFHNHS12



BDFHS12



BDTL24



BDTL25

UL Listed  
cULus Approved  
IEC Rated  
CE Marked

# Cable Operated Non-Fusible Disconnect Switches for 30A – 200A

For a complete assembly, please select one each of the following:



Switch

+



Handle

+



Cable

+



Lug kit (as required)

+



Operating mechanism



CDNF30A3



OHF1C12

BFCL36  
BFCL84

Lug kit

## Non-fusible

| UL<br>general<br>purpose<br>amp rating | Catalog<br>Number |
|----------------------------------------|-------------------|
| 30                                     | CDNF30A3          |
| 60                                     | CDNF60A3          |
| 100                                    | CDNF100A3         |
| 125                                    | CDNF160           |
| 200                                    | CDNF200U03        |

## Flange handles - UL 98; File #E101914

| For use with:                      | Environmental<br>rating | Catalog<br>number |
|------------------------------------|-------------------------|-------------------|
| CDNF30 - CDFN100, CDFN160, CDFN200 | NEMA 1, 3R, 12          | BDHFC12           |
|                                    | NEMA 4, 4X              | BDHFC4            |

## Flexible cables

| For use with:                      | Cable length<br>(inches) | Catalog<br>number |
|------------------------------------|--------------------------|-------------------|
| CDNF30 - CDFN100, CDFN160, CDFN200 | 36                       | BFCL36            |
|                                    | 48                       | BFCL48            |
|                                    | 60                       | BFCL60            |
|                                    | 72                       | BFCL72            |
|                                    | 84                       | BFCL84            |

## Operating mechanisms

| For use with: | Catalog<br>number |
|---------------|-------------------|
| CDNF30 - 100  | BMKCS1            |
| CDNF160       | BMKCS3            |
| CDNF200       | BMKCS4            |

## Terminal lug kits

| For use with: | Wire<br>size | Wire<br>type | Description | Lugs<br>per kit | Catalog<br>number |
|---------------|--------------|--------------|-------------|-----------------|-------------------|
| CDNF200U03    | #4-300kcmil  | Cu/Al        | -           | 6               | CDTL200           |
|               | #4-300kcmil  | Cu/Al        | -           | 3               | CDTL200/3P        |
|               | (6)#4-6AWG   | Cu/Al        | Dist. lug   | 3               | CDTL206           |

## Door hardware — NEMA 12

| Item                                                   | Catalog<br>number |
|--------------------------------------------------------|-------------------|
| Safety door latch, 2 point, door less than 40" high    | BKDH2R            |
| Safety door latch, 3 point, door greater than 40" high | BKDH3R            |

Fusible

Non-Fused

Enclosed Fused

Enclosed Non-Fused

# UL & cULus Technical Data for Non-Fusible Disconnect Switches



## CDNF16 – CDFNF160

### UL & cULus

| Catalog number                                              | 3 pole                              | CDNF16A3                          | CDNF25A3                               | CDNF32A3                                   | CDNF45A3                                 | CDNF63A3                                 | CDNF30A3                                 | CDNF60A3                                 | CDNF100A3                                | CDNF160                                  |
|-------------------------------------------------------------|-------------------------------------|-----------------------------------|----------------------------------------|--------------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|
| Approvals <sup>①</sup>                                      | 2 pole<br>N/A<br>3 pole<br>4 pole   | N/A<br>UL508 & IEC<br>UL508 & IEC | N/A<br>UL508 & IEC<br>UL508 & IEC      | N/A<br>UL508 & IEC<br>UL508 & IEC          | N/A<br>UL508 & IEC<br>UL508 & IEC        | N/A<br>UL508 & IEC<br>UL508 & IEC        | N/A<br>UL98 & IEC<br>UL98 & IEC          | N/A<br>UL98 & IEC<br>UL98 & IEC          | UL98 & IEC<br>UL98 & IEC<br>UL98 & IEC   | UL98 & IEC<br>UL98 & IEC                 |
| General purpose amp rating<br>pf = 0.7 – 0.8                | -40° to 40°C<br>A                   | 16                                | 25                                     | 40                                         | 60                                       | 80                                       | 30                                       | 60                                       | 100                                      | 100                                      |
| Max. operating voltage                                      | V                                   | 600                               | 600                                    | 600                                        | 600                                      | 600                                      | 600                                      | 600                                      | 600                                      | 600                                      |
| Max. horsepower rating/motor FLA current,<br>pf = 0.4 – 0.5 |                                     |                                   |                                        |                                            |                                          |                                          |                                          |                                          |                                          |                                          |
| Three phase                                                 | 200V – 208V<br>240V<br>480V<br>600V | HP/A<br>HP/A<br>HP/A<br>HP/A      | 3/10.6<br>5/15.2<br>10/14.0<br>10/11.0 | 7.5/24.2<br>7.5/22.0<br>15/21.0<br>20/22.0 | 10/30.8<br>10/28.0<br>20/27.0<br>25/27.0 | 15/46.2<br>15/42.0<br>30/40.0<br>30/32.0 | 20/60.0<br>20/54.0<br>40/52.0<br>40/41.0 | 10/30.8<br>20/54.0<br>40/52.0<br>40/41.0 | 25/75.0<br>30/80.0<br>50/65.0<br>50/52.0 | 30/88.0<br>30/80.0<br>60/77.0<br>75/77.0 |
| Single phase                                                | 120V<br>240V                        | HP/A<br>HP/A                      | 0.5/9.8<br>1.5/10.0                    | 0.75/13.8<br>2/12.0                        | 1/16.0<br>3/17.0                         | 2/24.0<br>5/28.0                         | 2/24.0<br>5/28.0                         | 3/34.0<br>7.5/40.0                       | 5/56.0<br>15/68.0                        | 7.5/80<br>20/88.0                        |
| Short circuit rating with fuse                              |                                     |                                   |                                        |                                            |                                          |                                          |                                          |                                          |                                          |                                          |
| Fuse type CC                                                | kA                                  | 10                                | 10                                     | 10                                         | 100                                      | 100                                      | 50                                       | 50                                       | 50                                       | 100                                      |
| Fuse type J                                                 | kA                                  | 10                                | 10                                     | 10                                         | 100                                      | 100                                      | 50                                       | 50                                       | 50                                       | 100                                      |
| Fuse type T                                                 | kA                                  | 10                                | 10                                     | 10                                         | 100                                      | 100                                      | 50                                       | 50                                       | 50                                       | 100                                      |
| Fuse type RK1                                               | kA                                  | 10                                | 10                                     | 10                                         | 10                                       | 10                                       | 10                                       | 10                                       | 10                                       | 10                                       |
| Fuse type RK5                                               | kA                                  | 5                                 | 5                                      | 5                                          | 5                                        | 5                                        | 5                                        | 5                                        | 5                                        | 5                                        |
| Fuse type L                                                 | kA                                  | —                                 | —                                      | —                                          | —                                        | —                                        | —                                        | —                                        | —                                        | —                                        |
| Fuse type H                                                 | kA                                  | —                                 | —                                      | —                                          | —                                        | 5                                        | 5                                        | —                                        | —                                        | —                                        |
| Fuse size                                                   | A                                   | 30                                | 60                                     | 30                                         | 60                                       | 100                                      | 150                                      | 60                                       | 100                                      | 200                                      |
| Short circuit rating with MCCB                              | kA                                  | —                                 | —                                      | —                                          | —                                        | —                                        | —                                        | —                                        | —                                        | 25                                       |
| Endurances                                                  |                                     |                                   |                                        |                                            |                                          |                                          |                                          |                                          |                                          |                                          |
| Min. Electrical endurance,<br>pf = 0.75 – 0.80              | operation cycles                    | 6000                              | 6000                                   | 6000                                       | 6000                                     | 6000                                     | 6000                                     | 6000                                     | 6000                                     | 6000                                     |
| Min. Electrical endurance,<br>pf = 0.40 – 0.50              | operation cycles                    | 1000                              | 1000                                   | 1000                                       | 1000                                     | 1000                                     | ②                                        | ②                                        | ②                                        | ②                                        |
| Mechanical endurance                                        | operations                          | 20,000                            | 20,000                                 | 20,000                                     | 20,000                                   | 20,000                                   | 20,000                                   | 20,000                                   | 20,000                                   | 16,000                                   |
| Physical characteristics                                    |                                     |                                   |                                        |                                            |                                          |                                          |                                          |                                          |                                          |                                          |
| Weight, switches                                            | 3 pole<br>4 pole                    | lb                                | 0.24<br>0.33                           | 0.24<br>0.33                               | 0.24<br>0.33                             | 0.59<br>0.77                             | 0.59<br>0.77                             | 0.79<br>1.10                             | 0.79<br>1.10                             | 2.42<br>2.86                             |
| Dimension, switches                                         | 3 pole                              | H in<br>W in<br>D in              | 2.68<br>1.38<br>2.20                   | 2.68<br>1.38<br>2.20                       | 2.68<br>1.38<br>2.20                     | 3.60<br>2.07<br>2.85                     | 3.60<br>2.07<br>2.85                     | 3.94<br>2.76<br>2.95                     | 3.94<br>2.76<br>2.95                     | 5.00<br>4.96<br>2.93                     |
| Shaft size — square □                                       | in<br>mm                            | .24 x .24<br>6 x 6                | .24 x .24<br>6 x 6                     | .24 x .24<br>6 x 6                         | .24 x .24<br>6 x 6                       | .24 x .24<br>6 x 6                       | .24 x .24<br>6 x 6                       | .24 x .24<br>6 x 6                       | .24 x .24<br>6 x 6                       | .24 x .24<br>6 x 6                       |
| Switch operating torque for<br>rotary 3 pole switches       | lb. in.                             | 8.8                               | 8.8                                    | 8.8                                        | 10.5                                     | 10.5                                     | 17.5                                     | 17.5                                     | 17.5                                     | 52.5                                     |
| Terminal lug kits                                           |                                     | Not required                      | Not required                           | Not required                               | Not required                             | Not required                             | Not required                             | Not required                             | Not required                             | Not required                             |
| Wire range                                                  | AWG                                 | #18 – 8                           | #18 – 8                                | #18 – 8                                    | #14 – 4                                  | #14 – 1                                  | #14 – 4                                  | #14 – 4                                  | #8 – 1/0                                 | #8 – 1/0                                 |
| Torque:                                                     |                                     |                                   |                                        |                                            |                                          |                                          |                                          |                                          |                                          |                                          |
| Wire tightening                                             | lb. in.                             | 7                                 | 7                                      | 7                                          | 18                                       | 18                                       | 55                                       | 55                                       | 55                                       | 70                                       |
| Lug mounting                                                | lb. in.                             | Integral                          | Integral                               | Integral                                   | Integral                                 | Integral                                 | Integral                                 | Integral                                 | Integral                                 | Integral                                 |
| Auxiliary contacts                                          |                                     | CDAUX_                            | CDAUX_                                 | CDAUX_                                     | CDAUX_                                   | CDAUX_                                   | CDAUX_                                   | CDAUX_                                   | CDAUX_                                   | CDAUX_                                   |
| NEMA ratings, AC                                            |                                     | A600                              | A600                                   | A600                                       | A600                                     | A600                                     | A600                                     | A600                                     | A600                                     | A600                                     |
| AC rated voltage                                            | VAC                                 | 600                               | 600                                    | 600                                        | 600                                      | 600                                      | 600                                      | 600                                      | 600                                      | 600                                      |
| AC thermal rated current                                    | A                                   | 10                                | 10                                     | 10                                         | 10                                       | 10                                       | 10                                       | 10                                       | 10                                       | 10                                       |
| AC maximum volt-ampere making                               | VA                                  | 7200                              | 7200                                   | 7200                                       | 7200                                     | 7200                                     | 7200                                     | 7200                                     | 7200                                     | 7200                                     |
| AC maximum volt-ampere breaking                             | VA                                  | 720                               | 720                                    | 720                                        | 720                                      | 720                                      | 720                                      | 720                                      | 720                                      | 720                                      |
| NEMA ratings, DC                                            |                                     | R300                              | R300                                   | R300                                       | R300                                     | R300                                     | R300                                     | R300                                     | R300                                     | P600                                     |
| DC rated voltage                                            | VDC                                 | 300                               | 300                                    | 300                                        | 300                                      | 300                                      | 300                                      | 300                                      | 300                                      | 600                                      |
| DC thermal rated current                                    | A                                   | 1                                 | 1                                      | 1                                          | 1                                        | 1                                        | 1                                        | 1                                        | 1                                        | 5                                        |
| DC maximum make-break                                       | VA                                  | 28                                | 28                                     | 28                                         | 28                                       | 28                                       | 28                                       | 28                                       | 28                                       | 138                                      |
| Torque:                                                     |                                     |                                   |                                        |                                            |                                          |                                          |                                          |                                          |                                          |                                          |
| Wire tightening                                             | lb. in                              | 7                                 | 7                                      | 7                                          | 7                                        | 7                                        | 7                                        | 7                                        | 7                                        | 7                                        |
| Wire range                                                  | AWG                                 | #18 – 14                          | #18 – 14                               | #18 – 14                                   | #18 – 14                                 | #18 – 14                                 | #18 – 14                                 | #18 – 14                                 | #18 – 14                                 | #22 – 14                                 |

- ① UL Listed switches are also cULus Approved.  
② UL 98 overload test, 50 operations, pf 0.40 – 0.50 at 2x FLA.

Fusible

Non-Fused

Enclosed Fused

Enclosed Non-Fused

## CDNF200U03 – BDNF3150

### UL & cULus

| Catalog number                                                   | 3 pole                                                 | CDNF200U03                                     | CDNF400U03                                       | BDNF600A                                         | BDNF800A                                       | BDNF1200                               | BDNF1600                               | BDNF2000                        | BDNF3150 ③                      |
|------------------------------------------------------------------|--------------------------------------------------------|------------------------------------------------|--------------------------------------------------|--------------------------------------------------|------------------------------------------------|----------------------------------------|----------------------------------------|---------------------------------|---------------------------------|
| Approvals <sup>①</sup>                                           | 2 pole<br>UL98 & IEC<br>3 pole<br>4 pole               | UL98 & IEC<br>UL98 & IEC<br>IEC                | UL98 & IEC<br>UL98 & IEC<br>UL98 & IEC           | UL98 & IEC<br>UL98 & IEC<br>UL98 & IEC           | UL98 & IEC<br>UL98 & IEC<br>UL98 & IEC         | UL98 & IEC<br>UL98 & IEC<br>UL98 & IEC | UL98 & IEC<br>UL98 & IEC<br>UL98 & IEC | IEC<br>UL98 & IEC<br>UL98 & IEC | IEC<br>UL98 & IEC<br>UL98 & IEC |
| General purpose amp rating<br>pf = 0.7 – 0.8                     | -40° to 40°C<br><b>A</b>                               | <b>200</b>                                     | <b>400</b>                                       | <b>600</b>                                       | <b>800</b>                                     | <b>1200</b>                            | <b>1600</b>                            | <b>2000</b>                     | <b>3150</b>                     |
| Max. operating voltage                                           | V                                                      | 600                                            | 600                                              | 600                                              | 600                                            | 600                                    | 600                                    | 480                             | —                               |
| Max. horsepower rating/Max. motor FLA current,<br>pf = 0.4 – 0.5 |                                                        |                                                |                                                  |                                                  |                                                |                                        |                                        |                                 |                                 |
| Three phase                                                      | 200 – 208V HP/A<br>240V HP/A<br>480V HP/A<br>600V HP/A | 60/160.0<br>75/192.0<br>150/180.0<br>200/192.0 | 100/273.0<br>125/312.0<br>250/302.0<br>350/336.0 | 150/396.0<br>200/480.0<br>400/477.0<br>500/472.0 | 200/528.0<br>250/602.0<br>500/590.0<br>600/576 | —<br>—<br>—<br>—                       | —<br>—<br>—<br>—                       | —<br>—<br>—<br>—                | —<br>—<br>—<br>—                |
| Single phase                                                     | 120V HP/A<br>240V HP/A                                 | —<br>—                                         | —<br>—                                           | —<br>—                                           | —<br>—                                         | —<br>—                                 | —<br>—                                 | —<br>—                          | —<br>—                          |
| Short circuit rating with fuse                                   |                                                        |                                                |                                                  |                                                  |                                                |                                        |                                        |                                 |                                 |
| Fuse type CC                                                     | kA                                                     | —                                              | —                                                | —                                                | —                                              | —                                      | —                                      | —                               | —                               |
| Fuse type J                                                      | kA                                                     | 100                                            | 100                                              | —                                                | —                                              | —                                      | —                                      | —                               | —                               |
| Fuse type T                                                      | kA                                                     | —                                              | —                                                | —                                                | —                                              | —                                      | —                                      | —                               | —                               |
| Fuse type RK1                                                    | kA                                                     | —                                              | —                                                | —                                                | —                                              | —                                      | —                                      | —                               | —                               |
| Fuse type RK5                                                    | kA                                                     | —                                              | —                                                | —                                                | 100                                            | —                                      | —                                      | —                               | —                               |
| Fuse type L                                                      | kA                                                     | —                                              | —                                                | —                                                | —                                              | —                                      | 100                                    | 100                             | 100                             |
| Fuse type H                                                      | kA                                                     | —                                              | —                                                | —                                                | —                                              | —                                      | —                                      | —                               | —                               |
| Fuse size                                                        | A                                                      | 350                                            | 600                                              | 600                                              | 1200                                           | 1200                                   | 2000                                   | 2000                            | —                               |
| Short circuit rating with MCCB                                   | kA                                                     | 15                                             | 30                                               | 50                                               | 50                                             | 50                                     | 65                                     | 65                              | —                               |
| Endurances                                                       |                                                        |                                                |                                                  |                                                  |                                                |                                        |                                        |                                 |                                 |
| Min. Electrical endurance,<br>pf = 0.75 – 0.80                   | operation cycles                                       | 6000                                           | 1000                                             | 1000                                             | 500                                            | 500                                    | 500                                    | 500                             | 400                             |
| Min. Electrical endurance,<br>pf = 0.40 – 0.50                   | operation cycles                                       | ②                                              | ②                                                | ②                                                | ②                                              | ②                                      | ②                                      | ②                               | ②                               |
| endurance                                                        | operations                                             | 20,000                                         | 20,000                                           | 10,000                                           | 10,000                                         | 10,000                                 | 6000                                   | 6000                            | 6000                            |
| Physical characteristics                                         |                                                        |                                                |                                                  |                                                  |                                                |                                        |                                        |                                 |                                 |
| Weight, switches                                                 | 3 pole lb<br>4 pole lb                                 | 2.9<br>3.5                                     | 5.7<br>6.8                                       | 13.66<br>16.74                                   | 35.9<br>45.15                                  | 38.55<br>49.56                         | 127.7<br>149.7                         | 127.7<br>149.7                  | 127.7<br>149.7                  |
| Dimension, switches                                              | 3 pole H in<br>W in<br>D in                            | 6.69<br>6.67<br>3.30                           | 8.66<br>8.70<br>4.15                             | 11.77<br>11.93<br>5.12                           | 19.09<br>14.29<br>4.92                         | 19.09<br>14.29<br>4.92                 | 25.04<br>18.43<br>10.67                | 25.04<br>18.43<br>10.67         | 25.04<br>18.43<br>10.67         |
| Shaft size — square                                              | □ in<br>mm                                             | .24 x .24<br>6 x 6                             | .47 x .47<br>12 x 12                             | .47 x .47<br>12 x 12                             | .47 x .47<br>12 x 12                           | .47 x .47<br>12 x 12                   | .47 x .47<br>12 x 12                   | .47 x .47<br>12 x 12            | .47 x .47<br>12 x 12            |
| Switch operating torque for<br>rotary 3 pole switches            | lb. in.                                                | 62                                             | 142                                              | 184                                              | 184                                            | 184                                    | 438                                    | 438                             | 438                             |
| Terminal lug kits                                                |                                                        |                                                |                                                  |                                                  |                                                |                                        |                                        |                                 |                                 |
| Wire range                                                       | AWG                                                    | CDTL200<br>#6-300kcmil <sup>③</sup>            | CDTL400<br>#2-600kcmil                           | BDTL27<br>(2)#2-600kcmil                         | BDTL30<br>(2)#2-600kcmil                       | BDTL28<br>(4)#2-600kcmil               | BDTL28<br>(4)#2-600kcmil               | BDTL28/2<br>(8)#2-600kcmil      | BDTL28/2<br>(8)#2-600kcmil      |
| Torque:                                                          |                                                        |                                                |                                                  |                                                  |                                                |                                        |                                        |                                 |                                 |
| Wire tightening                                                  | lb. in.                                                | 275                                            | 375                                              | 375                                              | 500                                            | 375                                    | 375                                    | 375                             | 375                             |
| Lug mounting                                                     | lb. in.                                                | 150                                            | 240                                              | 500                                              | 230                                            | 230                                    | 230                                    | 230                             | 230                             |
| Auxiliary contacts                                               |                                                        |                                                |                                                  |                                                  |                                                |                                        |                                        |                                 |                                 |
| NEMA ratings, AC                                                 |                                                        | CDAUX_ _<br>A600                               | CDAUX_ _<br>A600                                 | BDAUX_ _<br>A600                                 | BDAUX_ _<br>A600                               | BDAUX_ _<br>A600                       | BDAUX_ _<br>A600                       | BDAUX_ _<br>A600                | BDAUX_ _<br>A600                |
| AC rated voltage                                                 | VAC                                                    | 600                                            | 600                                              | 600                                              | 600                                            | 600                                    | 600                                    | 600                             | 600                             |
| AC thermal rated current                                         | A                                                      | 10                                             | 10                                               | 10                                               | 10                                             | 10                                     | 10                                     | 10                              | 10                              |
| AC maximum volt-ampere making                                    | VA                                                     | 7200                                           | 7200                                             | 7200                                             | 7200                                           | 7200                                   | 7200                                   | 7200                            | 7200                            |
| AC maximum volt-ampere breaking                                  | VA                                                     | 720                                            | 720                                              | 720                                              | 720                                            | 720                                    | 720                                    | 720                             | 720                             |
| NEMA ratings, DC                                                 |                                                        | P600                                           | P600                                             | P600                                             | P600                                           | P600                                   | P600                                   | P600                            | P600                            |
| DC rated voltage                                                 | VDC                                                    | 600                                            | 600                                              | 600                                              | 600                                            | 600                                    | 600                                    | 600                             | 600                             |
| DC thermal rated current                                         | A                                                      | 5                                              | 5                                                | 5                                                | 5                                              | 5                                      | 5                                      | 5                               | 5                               |
| DC maximum make-break                                            | VA                                                     | 138                                            | 138                                              | 138                                              | 138                                            | 138                                    | 138                                    | 138                             | 138                             |
| Torque:                                                          |                                                        |                                                |                                                  |                                                  |                                                |                                        |                                        |                                 |                                 |
| Wire tightening                                                  | lb. in                                                 | 7                                              | 7                                                | 7                                                | 7                                              | 7                                      | 7                                      | 7                               | 7                               |
| Wire range                                                       | AWG                                                    | #22 – #14                                      | #22 – #14                                        | #22 – #14                                        | #22 – #14                                      | #22 – #14                              | #22 – #14                              | #22 – #14                       | #22 – #14                       |

① UL Listed switches are also cULus Approved.  
 ② UL98 overload test, 50 operations, pf 0.40 – 0.50 at 2x FLA.  
 ③ Multi-tap lug available.  
 ④ IEC rated only.



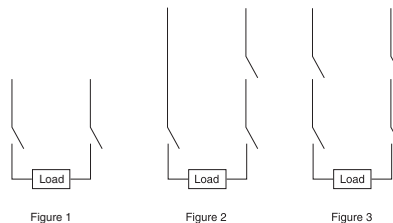
# IEC Technical Data for Non-Fusible Disconnect Switches



## CDNF16 – CDNF160

### IEC

| Catalog number                                                     | 3 pole               | CDNF16 | CDNF25 | CDNF32 | CDNF45 | CDNF63 | CDNF30 | CDNF60 | CDNF100 | CDNF160          |
|--------------------------------------------------------------------|----------------------|--------|--------|--------|--------|--------|--------|--------|---------|------------------|
| Rated insulation and operation voltage, AC20 and DC20 <sup>①</sup> | 40°C<br>750 V        | 750    | 750    | 750    | 750    | 750    | 750    | 750    | 750     | 12               |
| Rated impulse withstand voltage                                    | kV                   | 8      | 8      | 8      | 8      | 8      | 8      | 8      | 8       | 12               |
| Rated thermal current, I <sub>m</sub>                              |                      |        |        |        |        |        |        |        |         |                  |
| AC 20/DC 20                                                        | open <sup>②</sup> A  | 25     | 32     | 40     | 63     | 80     | 40     | 63     | 115     | 200              |
|                                                                    | 40°C enclosed A      | 25     | 32     | 40     | 63     | 80     | 40     | 63     | 115     | 160              |
|                                                                    | 60°C enclosed A      | 25     | 32     | 40     | 63     | 80     | 40     | 63     | 115     | 160              |
| Rated operational currents                                         |                      |        |        |        |        |        |        |        |         |                  |
| AC 21A                                                             | 500V A               | 16     | 25     | 32     | 63     | 80     | 40     | 63     | 100     | 160 <sup>③</sup> |
|                                                                    | 690V A               | 16     | 25     | 32     | 63     | 80     | 40     | 63     | 100     | 160 <sup>③</sup> |
|                                                                    | 1000V <sup>①</sup> A | —      | —      | —      | —      | —      | —      | —      | —       | —                |
| AC 22A                                                             | 500V A               | 16     | 25     | 32     | 63     | 80     | 40     | 63     | 100     | 160 <sup>③</sup> |
|                                                                    | 690V A               | 16     | 25     | 32     | 63     | 80     | 40     | 63     | 100     | 160 <sup>③</sup> |
|                                                                    | 1000V <sup>①</sup> A | —      | —      | —      | —      | —      | —      | —      | —       | —                |
| AC 23A                                                             | 415V A               | 16     | 20     | 23     | 45     | 75     | 40     | 63     | 80      | 135              |
|                                                                    | 500V A               | 16     | 20     | 23     | 45     | 58     | 40     | 63     | 60      | 125              |
|                                                                    | 690V A               | 10     | 11     | 12     | 20     | 20     | 40     | 40     | 40      | 80               |
|                                                                    | 1000V <sup>①</sup> A | —      | —      | —      | —      | —      | —      | —      | —       | —                |
| Rated operational currents/poles in series                         |                      |        |        |        |        |        |        |        |         |                  |
| DC21A                                                              | 48V A                | 16/1   | 25/1   | 32/1   | 45/1   | 63/1   | 40/1   | 63/1   | 100/1   | 160/1            |
|                                                                    | 110V A               | 16/2   | 25/2   | 32/2   | 45/2   | 63/2   | 40/2   | 63/2   | 100/2   | 160/1            |
|                                                                    | 220V A               | 16/3   | 25/3   | 32/3   | 45/4   | 63/4   | 40/4   | 63/4   | 100/4   | 160/2            |
|                                                                    | 440V A               | 16/4   | 25/6   | 32/6   | ④      | ④      | ④      | ④      | ④       | 160/3            |
|                                                                    | 750V A               | 16/8   | 25/8   | 32/8   | ④      | ④      | ④      | ④      | ④       | 160/4            |
| DC22A                                                              | 48V A                | 16/1   | 25/1   | 32/1   | 45/1   | 63/1   | 40/1   | 63/1   | 100/1   | 160/1            |
|                                                                    | 110V A               | 16/2   | 25/2   | 32/2   | 45/2   | 63/2   | 40/2   | 63/2   | 100/2   | 160/1            |
|                                                                    | 220V A               | 16/3   | 25/3   | 32/4   | 45/4   | 63/4   | 40/4   | 63/4   | 100/4   | 160/2            |
|                                                                    | 440V A               | 16/6   | 25/8   | ④      | ④      | ④      | ④      | ④      | ④       | 160/3            |
|                                                                    | 750V A               | 16/8   | 25/8   | ④      | ④      | ④      | ④      | ④      | ④       | ④                |
| DC23A                                                              | 48V A                | 16/1   | 25/1   | 32/1   | 45/1   | 63/1   | 40/1   | 63/1   | 100/1   | 160/1            |
|                                                                    | 110V A               | 16/2   | 25/2   | 32/2   | 45/2   | 63/2   | 40/2   | 63/2   | 100/2   | 160/1            |
|                                                                    | 220V A               | 16/4   | 25/4   | 32/4   | 45/4   | 63/4   | 40/4   | 63/4   | 100/4   | 160/2            |
|                                                                    | 440V A               | ④      | ④      | ④      | ④      | ④      | ④      | ④      | ④       | 160/3            |
|                                                                    | 750V A               | 16/8   | ④      | ④      | ④      | ④      | ④      | ④      | ④       | ④                |
| Rated operational power                                            |                      |        |        |        |        |        |        |        |         |                  |
| AC23A                                                              | 230V kW              | 3      | 4      | 5.5    | 11     | 22     | 7.5    | 11     | 22      | 45               |
|                                                                    | 400/415V kW          | 7.5    | 9      | 11     | 22     | 37     | 15     | 18.5   | 37      | 75               |
|                                                                    | 500V kW              | 7.5    | 9      | 11     | 22     | 37     | 15     | 18.5   | 37      | 75               |
|                                                                    | 690V kW              | 7.5    | 9      | 11     | 15     | 18.5   | 15     | 15     | 37      | 75               |
| Short-circuit current                                              | kA                   | 50     | 50     | 50     | 50     | 50     | 50     | 50     | 50      | 50               |
| with back-up fuses of size <sup>①</sup>                            | A                    | 25     | 32     | 40     | 63     | 80     | 100    | 100    | 200     | 50               |



① 1000V, IEC 408.  
 ② The ambient air temperature does not exceed +40°C and its average over a period of 24 hours does not exceed +35°C according to IEC 947.  
 ③ IEC 947-3, utilization category B, infrequent operation.  
 ④ Not available at time of printing, please consult factory.

**CDNF200U03 – BDNF3150**

**IEC**

| Catalog number                                                         | 3 pole               | CDNF200U03 | CDNF400U03 | BDNF600A   | BDNF800A    | BDNF1200    | BDNF1600                | BDNF2000                | BDNF3150                |
|------------------------------------------------------------------------|----------------------|------------|------------|------------|-------------|-------------|-------------------------|-------------------------|-------------------------|
| Rated insulation and operational voltage, AC20 and DC20 <sup>①</sup> V | 40°C<br>1000         | 1000       | 1000       | 1000       | 1000        | 1000        | 1000                    | 1000                    | 8                       |
| Rated impulse withstand voltage                                        | kV                   | 12         | 12         | 12         | 8           | 8           | 8                       | 8                       | 8                       |
| Rated thermal current, I <sub>th</sub>                                 |                      |            |            |            |             |             |                         |                         |                         |
| AC 20/DC 20                                                            | open <sup>②</sup> A  | 250        | 400        | 800        | 1250        | 1600        | 2500                    | 2500                    | 3150                    |
|                                                                        | 40°C enclosed A      | 250        | 400        | 720        | 1250        | 1600        | 2300                    | 2300                    | 2600                    |
|                                                                        | 60°C enclosed A      | —          | —          | 720        | 1250        | 1600        | 2300                    | 2300                    | 2600                    |
| Rated operational currents                                             |                      |            |            |            |             |             |                         |                         |                         |
| AC 21A                                                                 | 500V A               | <b>250</b> | <b>400</b> | <b>800</b> | <b>1250</b> | <b>1600</b> | <b>2500<sup>③</sup></b> | <b>2500<sup>③</sup></b> | <b>3150<sup>③</sup></b> |
|                                                                        | 690V A               | 250        | 400        | 800        | 1250        | 1600        | 2500 <sup>③</sup>       | 2500 <sup>③</sup>       | 3150 <sup>③</sup>       |
|                                                                        | 1000V <sup>①</sup> A | —          | —          | 630        | —           | —           | —                       | —                       | —                       |
| AC 22A                                                                 | 500V A               | 250        | 400        | 800        | 1250        | 1600        | 1600 <sup>③</sup>       | 1600 <sup>③</sup>       | 1600 <sup>③</sup>       |
|                                                                        | 690V A               | 250        | 400        | 800        | —           | —           | —                       | —                       | —                       |
|                                                                        | 1000V <sup>①</sup> A | —          | —          | 400        | —           | —           | —                       | —                       | —                       |
| AC 23A                                                                 | 415V A               | 250        | 400        | 720        | 800         | 800         | 800 <sup>③</sup>        | 800 <sup>③</sup>        | 800 <sup>③</sup>        |
|                                                                        | 500V A               | 250        | 400        | 600        | 800         | 800         | 800 <sup>③</sup>        | 800 <sup>③</sup>        | 800 <sup>③</sup>        |
|                                                                        | 690V A               | 250        | 400        | 350        | —           | —           | —                       | —                       | —                       |
|                                                                        | 1000V <sup>①</sup> A | —          | —          | 200        | —           | —           | —                       | —                       | —                       |
| Rated operational currents/poles in series                             |                      |            |            |            |             |             |                         |                         |                         |
| DC21A                                                                  | 48V A                | 250/1      | 630/2      | 800/2      | 1250/2      | 1600/2      | 2500/2                  | 2500/2                  | 3150/2                  |
|                                                                        | 110V A               | 250/2      | 630/2      | 800/2      | 1250/2      | 1600/2      | 2500/2                  | 2500/2                  | 3150/2                  |
|                                                                        | 220V A               | 250/2      | 630/2      | 800/2      | 1250/3      | 1600/2      | 2500/2                  | 2500/2                  | 3150/2                  |
|                                                                        | 440V A               | 250/3      | 630/3      | 800/3      | —           | 1600/3      | 2500/3                  | 2500/3                  | 3150/2                  |
|                                                                        | 750V A               | 250/4      | —          | —          | —           | —           | —                       | —                       | —                       |
| DC22A                                                                  | 48V A                | 250/1      | 630/2      | 800/2      | 1250/2      | 1600/2      | 2500/2                  | 2500/2                  | 3150/2                  |
|                                                                        | 110V A               | 250/2      | 630/2      | 800/2      | 1250/2      | 1600/2      | 2500/2                  | 2500/2                  | 3150/2                  |
|                                                                        | 220V A               | 250/2      | 630/2      | 800/2      | 1250/2      | 1600/2      | 2500/2                  | 2500/2                  | 3150/2                  |
|                                                                        | 440V A               | 250/3      | 630/3      | 800/3      | —           | —           | —                       | —                       | —                       |
|                                                                        | 750V A               | 250/4      | —          | —          | —           | —           | —                       | —                       | —                       |
| DC23A                                                                  | 48V A                | 250/1      | 630/2      | —          | —           | —           | —                       | —                       | —                       |
|                                                                        | 110V A               | 250/2      | 630/2      | —          | —           | —           | —                       | —                       | —                       |
|                                                                        | 220V A               | 250/2      | 630/2      | —          | —           | —           | —                       | —                       | —                       |
|                                                                        | 440V A               | 250/3      | —          | —          | —           | —           | —                       | —                       | —                       |
|                                                                        | 750V A               | 250/4      | —          | —          | —           | —           | —                       | —                       | —                       |
| Rated operational power                                                |                      |            |            |            |             |             |                         |                         |                         |
| AC23A                                                                  | 230V kW              | 75         | 110        | 200        | 250         | 250         | 250                     | 250                     | 250                     |
|                                                                        | 400/415V kW          | 132/140    | 220/230    | 355        | 400         | 400         | 400                     | 400                     | 400                     |
|                                                                        | 500V kW              | 170        | 280        | 400        | 450         | 450         | 450                     | 450                     | 450                     |
|                                                                        | 690V kW              | 240        | 355        | 355        | —           | —           | —                       | —                       | —                       |
| Short-circuit current                                                  | kA                   | 100        | 100        | 80         | 50          | 50          | 50                      | 50                      | 50                      |
| with back-up fuses of size <sup>①</sup> A                              | 400                  | 400        | 800        | 800        | 1000        | 1250        | 1250                    | 1250                    | 1250                    |



Figure 1



Figure 2



Figure 3

① 1000V, IEC 408.

② The ambient air temperature does not exceed +40°C and its average over a period of 24 hours does not exceed +35°C according to IEC 947.

③ IEC 947-3, utilization category B, infrequent operation.

# IEC Technical Data for Non-Fusible Disconnect Switches



## CDNF16 – CDNF160

### IEC

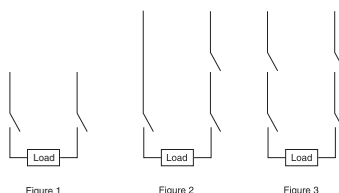
| Catalog number                                                               | 3 pole           | CDNF16          | CDNF25         | CDNF32         | CDNF45         | CDNF63         | CDNF30         | CDNF60         | CDNF100        | CDNF160   |
|------------------------------------------------------------------------------|------------------|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------|
| Rated voltage, U <sup>0</sup>                                                | V/V              | 415             | 415            | 415            | 415            | 415            | 415            | 415            | 415            | 415/690   |
| Rated conditional short-circuit current                                      | kA               | 50              | 50             | 50             | 50             | 50             | 50             | 50             | 50             | 80/50     |
| Max. allowed fuse size, type OFAA                                            | A                | 16              | 32             | 40             | 63             | 80             | 100            | 100            | 100            | 160/250   |
| Max. allowed cut-off current, peak value                                     | kA               | 4               | 4.3            | 4.6            | 8.3            | 11             | 9.2            | 9.2            | 9.2            | 21.0/21.6 |
| Rated short-circuit making capacity, prospective peak value, I <sub>cm</sub> | kA               | 0.7             | 0.7            | 1.4            | 1.4            | 3.6            | 3.6            | 3.6            | 12             |           |
| Rated short time withstand current, RMS I <sup>CW</sup>                      | 0.2s             | —               | —              | —              | —              | —              | —              | —              | —              | 7         |
| RMS I <sup>CW</sup>                                                          | 1.0s             | 0.5             | 0.5            | 0.5            | 1              | 1              | 2.5            | 2.5            | 2.5            | 4         |
| AC breaking capacity                                                         |                  |                 |                |                |                |                |                |                |                |           |
| pf = 0.35                                                                    |                  |                 |                |                |                |                |                |                |                |           |
| 415V                                                                         | A                | 128             | 160            | 184            | 240            | 304            | 320            | 504            | 640            | 1080      |
| 500V                                                                         | A                | 128             | 160            | 184            | 240            | 256            | 320            | 504            | 504            | 1000      |
| 690V                                                                         | A                | 80              | 88             | 96             | 160            | 160            | 320            | 320            | 320            | 640       |
| 1000V <sup>①</sup>                                                           | A                | —               | —              | —              | —              | —              | —              | —              | —              | —         |
| DC breaking capacity/poles in series                                         |                  |                 |                |                |                |                |                |                |                |           |
| L/R = 15ms, 3 pole in series                                                 |                  |                 |                |                |                |                |                |                |                |           |
| 48V                                                                          | A                | 64/1            | 100/1          | 128/1          | 180/1          | 252/1          | 160/1          | 252/1          | 400/1          | 640/1     |
| 110V                                                                         | A                | 64/2            | 100/2          | 128/2          | 180/2          | 180/2          | 160/2          | 252/2          | 400/2          | 640/1     |
| 220V                                                                         | A                | 64/3            | 100/4          | 128/4          | 180/4          | 180/4          | 160/4          | 252/4          | 252/4          | 640/2     |
| 440V                                                                         | A                | ②               | ②              | ②              | ②              | ②              | ②              | ②              | —              | 640/3     |
| 750V                                                                         | A                | ②               | ②              | ②              | ②              | ②              | ②              | ②              | —              | —         |
| Capacitor ratings                                                            | 400/415V         | kVar            | ②              | ②              | ②              | ②              | ②              | ②              | ②              | ②         |
| Rated capacitor duty                                                         | kA               | ②               | ②              | ②              | ②              | ②              | ②              | ②              | ②              | ②         |
| Physical characteristics                                                     |                  |                 |                |                |                |                |                |                |                |           |
| Electrical endurance at rated operational current, pf = 0.65                 | operation cycles | 3000            | 3000           | 3000           | 3000           | 3000           | 3000           | 3000           | 3000           | 1000      |
| Mechanical endurance                                                         | operations       | 20,000          | 20,000         | 20,000         | 20,000         | 20,000         | 20,000         | 20,000         | 20,000         | 16,000    |
| Weight                                                                       | 3 pole           | kg              | 0.11           | 0.11           | 0.11           | 0.27           | 0.27           | 0.36           | 0.36           | 1.1       |
|                                                                              | 4 pole           | kg              | 0.15           | 0.15           | 0.15           | 0.35           | 0.35           | 0.5            | 0.5            | 1.3       |
| Dimension                                                                    | 3 pole           | H mm            | 68             | 68             | 91.5           | 91.5           | 100            | 100            | 127            |           |
|                                                                              |                  | W mm            | 35             | 35             | 35             | 52.5           | 52.5           | 70             | 70             | 126       |
|                                                                              |                  | D mm            | 56             | 56             | 56             | 72.5           | 72.5           | 75             | 75             | 74.5      |
| Power loss per pole                                                          |                  | W               | 0.3            | 0.6            | 1              | 1.4            | 2.8            | 1              | 1.6            | 6.5       |
| Shaft size — square                                                          | □                | mm              | 6 x 6          | 6 x 6          | 6 x 6          | 6 x 6          | 6 x 6          | 6 x 6          | 6 x 6          | 6 x 6     |
| Switch operating torque for rotary 3 pole switches                           |                  | Nm              | 1              | 1              | 1              | 1.2            | 1.2            | 2              | 2              | 6         |
| Suitable conductor cross section Cu                                          |                  | mm <sup>2</sup> | 0.75 – 10      | 0.75 – 10      | 0.75 – 10      | 1.5 – 35       | 1.5 – 35       | 1.5 – 25       | 1.5 – 25       | 10 – 70   |
| Bolt size                                                                    |                  | —               | —              | —              | —              | —              | —              | —              | —              | —         |
| Auxiliary contacts                                                           |                  | CDAUX_ _        | CDAUX_ _       | CDAUX_ _       | CDAUX_ _       | CDAUX_ _       | CDAUX_ _       | CDAUX_ _       | CDAUX_ _       | CDAUX_ _  |
| Ratings according to IEC 947-5-1                                             |                  |                 |                |                |                |                |                |                |                |           |
| Rated voltage, U <sub>i</sub>                                                | VAC              | 690             | 690            | 690            | 690            | 690            | 690            | 690            | 690            | 690       |
| Thermal current, I <sub>th</sub>                                             | A                | 16              | 16             | 16             | 16             | 16             | 16             | 16             | 16             | 10        |
| AC12/DC12 I <sub>e</sub> , A                                                 | U <sub>e</sub> = | —               | —              | —              | —              | —              | —              | —              | —              | 8/—       |
| 120V                                                                         | A                | —               | —              | —              | —              | —              | —              | —              | —              | —/1.1     |
| 125V                                                                         | A                | —               | —              | —              | —              | —              | —              | —              | —              | 6/—       |
| 240V                                                                         | A                | 6 <sup>③</sup>  | 6 <sup>③</sup> | 6 <sup>③</sup> | 6 <sup>③</sup> | 6 <sup>③</sup> | 6 <sup>③</sup> | 6 <sup>③</sup> | 6 <sup>③</sup> | —/0.55    |
| 250V                                                                         | A                | —               | —              | —              | —              | —              | —              | —              | —              | 4/—       |
| 400V                                                                         | A                | 4 <sup>③</sup>  | 4 <sup>③</sup> | 4 <sup>③</sup> | 4 <sup>③</sup> | 4 <sup>③</sup> | 4 <sup>③</sup> | 4 <sup>③</sup> | 4 <sup>③</sup> | 4/—       |
| 415V                                                                         | A                | —               | —              | —              | —              | —              | —              | —              | —              | —/0.31    |
| 440V                                                                         | A                | —               | —              | —              | —              | —              | —              | —              | —              | 3/—       |
| 480V                                                                         | A                | —               | —              | —              | —              | —              | —              | —              | —              | 3/0.27    |
| 500V                                                                         | A                | —               | —              | —              | —              | —              | —              | —              | —              | —/0.2     |
| 600V                                                                         | A                | —               | —              | —              | —              | —              | —              | —              | —              | 2/—       |
| 690V                                                                         | A                | 2 <sup>③</sup>  | 2 <sup>③</sup> | 2 <sup>③</sup> | 2 <sup>③</sup> | 2 <sup>③</sup> | 2 <sup>③</sup> | 2 <sup>③</sup> | 2 <sup>③</sup> |           |

Fusible

Non-Fused

Enclosed Fused

Enclosed Non-Fused



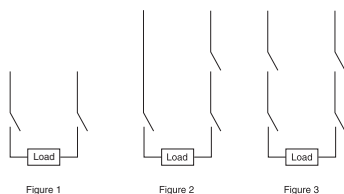
① 1000V, IEC 408.  
② Not available at time of printing, please consult factory.  
③ AC15, according to IEC947-5-1.

**CDNF200U03 – BDNF3150**

**IEC**

| Catalog number                                                               | 3 pole           | CDNF200U03      | CDNF400U03 | BDNF600A         | BDNF800A            | BDNF1200            | BDNF1600            | BDNF2000            | BDNF3150            |
|------------------------------------------------------------------------------|------------------|-----------------|------------|------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Rated voltage, U <sub>e</sub>                                                | V/V              | 500/690         | 500/690    | 500/690          | 690                 | 690                 | 690                 | 690                 | 690                 |
| Rated conditional short-circuit current                                      | kA               | 100/80          | 100/80     | 100/50           | 45                  | 45                  | 45                  | 50                  | 50                  |
| Max. allowed fuse size, type OFAA                                            | A                | 350/355         | 500/500    | 800 <sup>②</sup> | —                   | —                   | —                   | —                   | —                   |
| Max. allowed cut-off current, peak value                                     | kA               | 40.5/40.5       | 615/59     | 62               | —                   | —                   | —                   | —                   | —                   |
| Rated short-circuit making capacity, prospective peak value, I <sub>cm</sub> | kA               | 35              | 30         | 65               | 105                 | 105                 | 115                 | 115                 | 115                 |
| Rated short time withstand current, RMS I <sub>cw</sub>                      | 0.2s             | kA              | 15         | 28               | 38                  | 100                 | 100                 | 110                 | 110                 |
| RMS I <sub>cw</sub>                                                          | 1.0s             | kA              | 8          | 15               | 17                  | 50 <sup>②</sup>     | 50 <sup>②</sup>     | 50 <sup>②</sup>     | 50 <sup>②</sup>     |
| AC breaking capacity                                                         |                  |                 |            |                  |                     |                     |                     |                     |                     |
| pf = 0.35                                                                    | 415V             | A               | 2000       | 3200             | 5780                | 6400                | 6400                | 6400                | 6400                |
|                                                                              | 500V             | A               | 2000       | 3200             | 4800                | 6400                | 6400                | 6400                | 6400                |
|                                                                              | 690V             | A               | 2000       | 3200             | 2800                | 2500 <sup>②</sup>   | 4800 <sup>②</sup>   | 4800 <sup>②</sup>   | 4800 <sup>②</sup>   |
| DC breaking capacity/poles in series                                         |                  |                 |            |                  |                     |                     |                     |                     |                     |
| L/R = 15ms, 3 pole in series                                                 |                  |                 |            |                  |                     |                     |                     |                     |                     |
| 48V                                                                          | A                | 1000/2          | —          | —                | —                   | —                   | —                   | —                   | —                   |
| 110V                                                                         | A                | 1000/2          | —          | —                | —                   | —                   | —                   | —                   | —                   |
| 220V                                                                         | A                | 1000/2          | 1600/2     | 2000/2           | 1900/2 <sup>②</sup> | 2600/2 <sup>②</sup> | 2600/2 <sup>②</sup> | 2600/2 <sup>②</sup> | 2600/2 <sup>②</sup> |
| 440V                                                                         | A                | 1000/3          | 1600       | 2000             | —                   | —                   | —                   | —                   | —                   |
| 750V                                                                         | A                | 1000/4          | —          | —                | —                   | —                   | —                   | —                   | —                   |
| Capacitor ratings                                                            | 400/415V         | kVar            | —          | —                | 350                 | ②                   | ②                   | ②                   | ②                   |
| Rated capacitor duty                                                         | kA               | —               | —          | 500              | ②                   | ②                   | ②                   | ②                   | ②                   |
| Physical characteristics                                                     |                  |                 |            |                  |                     |                     |                     |                     |                     |
| Electrical endurance at rated operational current, pf = 0.65                 | operation cycles | 1000            | 1000       | 500              | 500                 | 500                 | 100 <sup>②</sup>    | 100 <sup>②</sup>    | 100 <sup>②</sup>    |
| Mechanical endurance                                                         | operations       | 20,000          | 16,000     | 10,000           | 10,000              | 10,000              | 6000                | 6000                | 6000                |
| Weight                                                                       | 3 pole           | kg              | 1.2        | 2.2              | 6.2                 | 16.3                | 17.5                | 37                  | 37                  |
|                                                                              | 4 pole           | kg              | 1.6        | 2.6              | 7.6                 | 20.5                | 22.5                | 47                  | 47                  |
| Dimension                                                                    | 3 pole           | H mm            | 212        | 216              | 485                 | 485                 | 636                 | 636                 | 636                 |
|                                                                              |                  | W mm            | 219        | 260              | 303                 | 363                 | 363                 | 468                 | 468                 |
|                                                                              |                  | D mm            | 92.5       | 130              | 130                 | 125                 | 125                 | 271                 | 271                 |
| Power loss per one pole                                                      |                  | W               | 6.5        | 10               | 40                  | 40                  | 67                  | 90                  | 140                 |
| Shaft size — square □                                                        |                  | mm              | 6 x 6      | 12 x 12          | 12 x 12             | 12 x 12             | 12 x 12             | 12 x 12             | 12 x 12             |
| Switch operating torque for rotary 3 pole switches                           |                  | Nm              | 7          | 16               | 21                  | 21                  | 21                  | 50                  | 50                  |
| Suitable conductor cross section Cu                                          |                  | mm <sup>2</sup> | —          | —                | —                   | —                   | —                   | —                   | —                   |
| Bolt size                                                                    |                  |                 | 8 x 25     | 10 x 30          | 12 x 40             | 12 x 60             | 12 x 60             | 12 x 60             | 12 x 60             |
| Auxiliary contacts                                                           |                  | CDAUX_ _        | CDAUX_ _   | BDAUX_ _         | BDAUX_ _            | BDAUX_ _            | BDAUX_ _            | BDAUX_ _            | BDAUX_ _            |
| Ratings according to IEC 947-5-1                                             |                  |                 |            |                  |                     |                     |                     |                     |                     |
| Rated voltage, U <sub>i</sub>                                                | VAC              | 690             | 690        | 690              | 690                 | 690                 | 690                 | 690                 | 690                 |
| Thermal rated current, I <sub>th</sub>                                       | A                | 16              | 16         | 10               | 10                  | 10                  | 10                  | 10                  | 10                  |
| AC12/DC12 I <sub>g</sub> , A U <sub>e</sub> =                                |                  |                 |            |                  |                     |                     |                     |                     |                     |
| 120V                                                                         | A                | —               | —          | —                | 8/—                 | 8/—                 | 8/—                 | 8/—                 | 8/—                 |
| 125V                                                                         | A                | —               | —          | —                | —/1.1               | —/1.1               | —/1.1               | —/1.1               | —/1.1               |
| 240V                                                                         | A                | 6/—             | 6/—        | 6/—              | 6/—                 | 6/—                 | 6/—                 | 6/—                 | 6/—                 |
| 250V                                                                         | A                | —               | —          | —/0.55           | —/0.55              | —/0.55              | —/0.55              | —/0.55              | —/0.55              |
| 400V                                                                         | A                | 4/—             | 4/—        | 4/—              | 4/—                 | 4/—                 | 4/—                 | 4/—                 | 4/—                 |
| 415V                                                                         | A                | —               | —          | 4/—              | 4/—                 | 4/—                 | 4/—                 | 4/—                 | 4/—                 |
| 440V                                                                         | A                | —               | —          | —/0.31           | —/0.31              | —/0.31              | —/0.31              | —/0.31              | —/0.31              |
| 480V                                                                         | A                | —               | —          | 3/—              | 3/—                 | 3/—                 | 3/—                 | 3/—                 | 3/—                 |
| 500V                                                                         | A                | —               | —          | 3/0.27           | 3/0.27              | 3/0.27              | 3/0.27              | 3/0.27              | 3/0.27              |
| 600V                                                                         | A                | —               | —          | —/0.2            | —/0.2               | —/0.2               | —/0.2               | —/0.2               | —/0.2               |
| 690V                                                                         | A                | 2/—             | 2/—        | 2/—              | 2/—                 | 2/—                 | 2/—                 | 2/—                 | 2/—                 |

- ② Not available at time of printing, please consult factory.  
 ③ Size 4.  
 ④ Maximum distance between busbar support and switch terminal 70mm.  
 ⑤ pf 0.95.  
 ⑥ pf 0.65.  
 ⑦ IEC 947-3, utilization category B, infrequent operation.

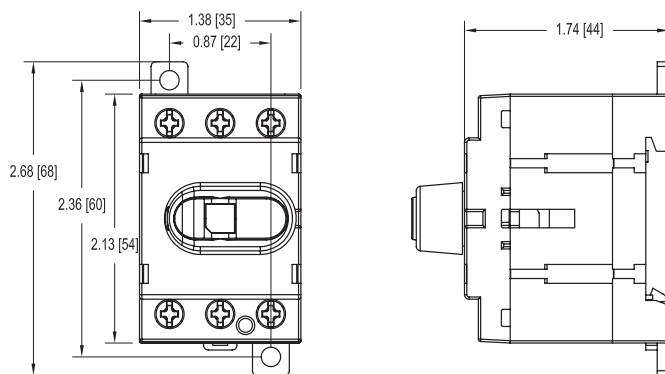


## Approximate Dimensions for Non-Fusible Disconnect Switches

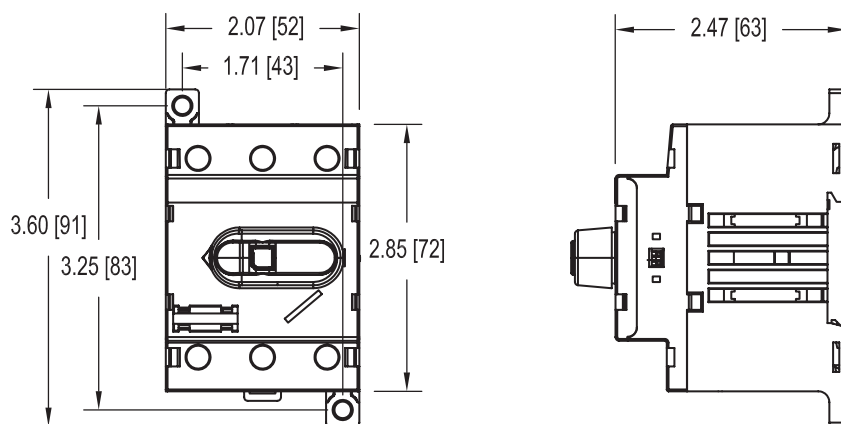


### CDNF16A3 – CDFN100A3

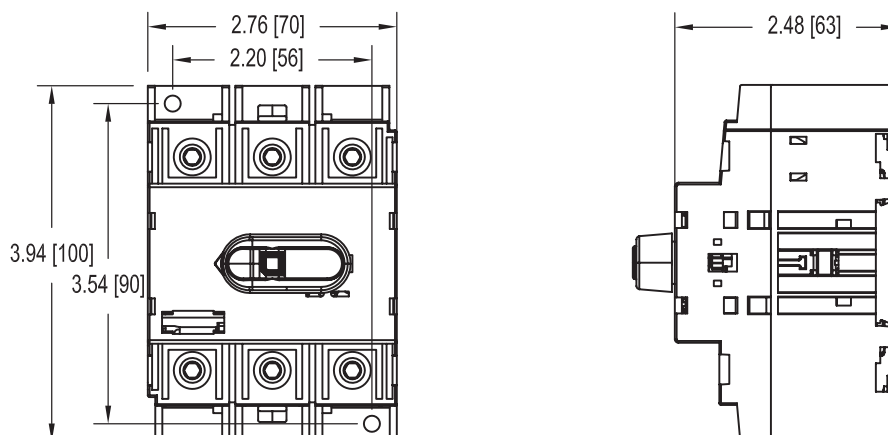
CDNF16A3, CDFN25A3, CDFN32A3 — base & DIN rail mounted switch



### CDNF45A3, CDFN63A3 — base & DIN rail mounted switch



### CDNF30A3, CDFN60A3, CDFN100A3 — base & DIN rail mounted switch

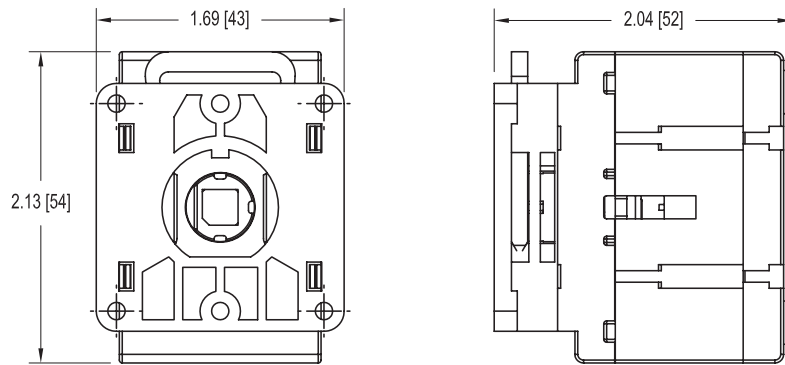
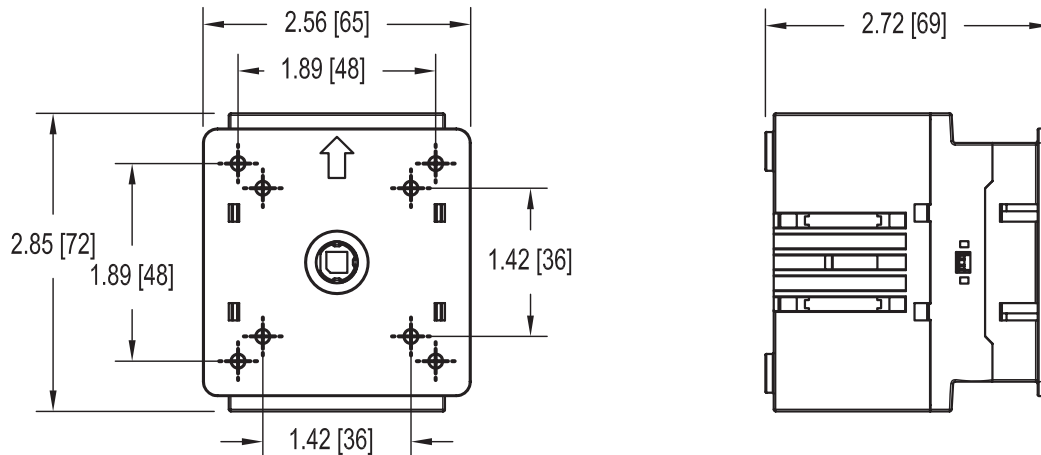
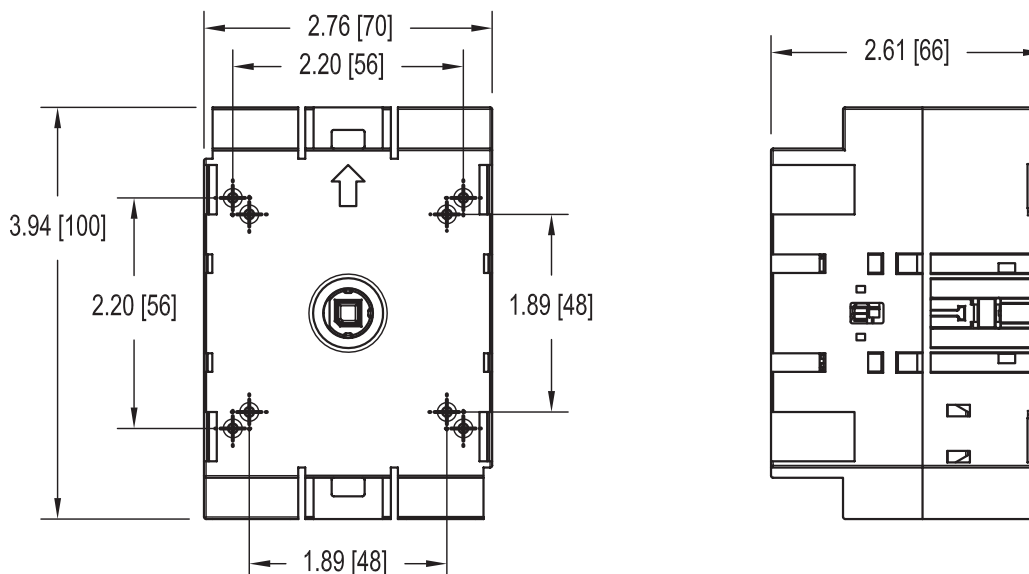


Fusible

Non-Fused

Enclosed Fused

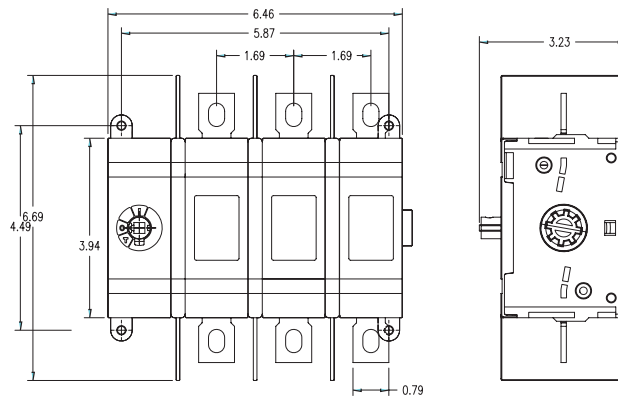
Enclosed Non-Fused

**CDNF16A3D – CDFN100A3D****CDNF16A3D, CDFN25A3D, CDFN32A3D — door mounted switch****CDNF45A3D, CDFN63A3D — door mounted switch****CDNF30A3D, CDFN60A3D, CDFN100A3D — door mounted switch**

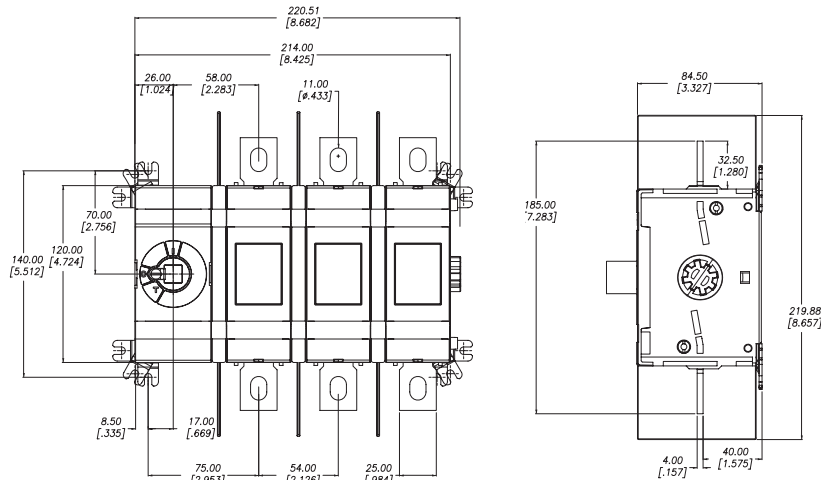
# Approximate Dimensions for Non-Fusible Disconnect Switches



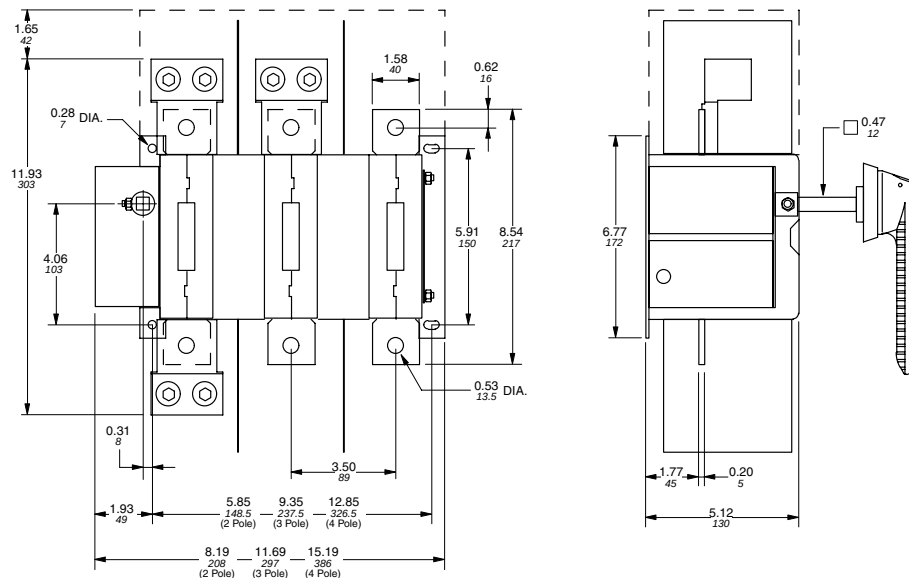
CDNF200U03



CDNF400U03



BDNF600A



Fusible

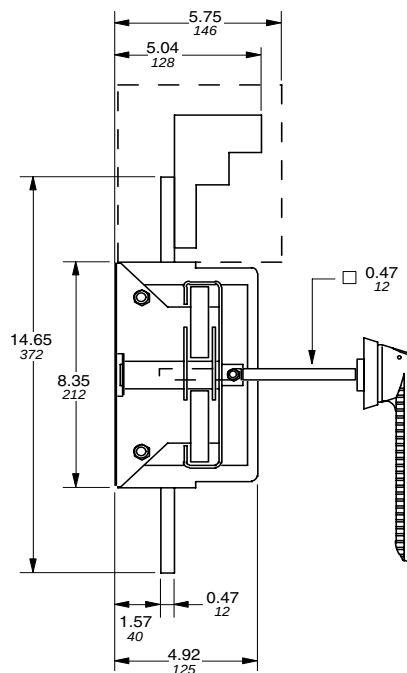
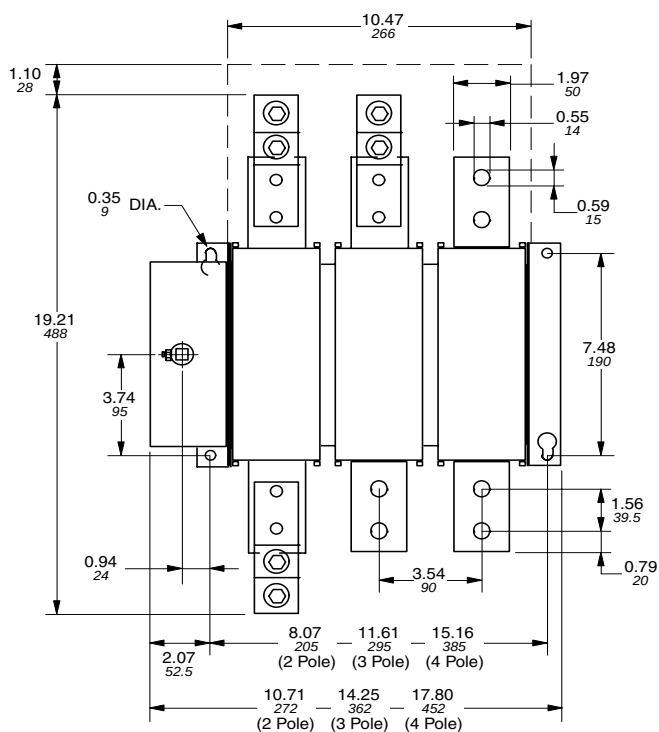
Non-Fused

Enclosed Fused

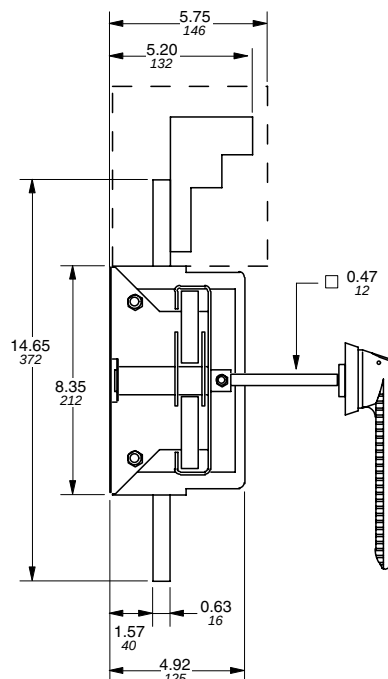
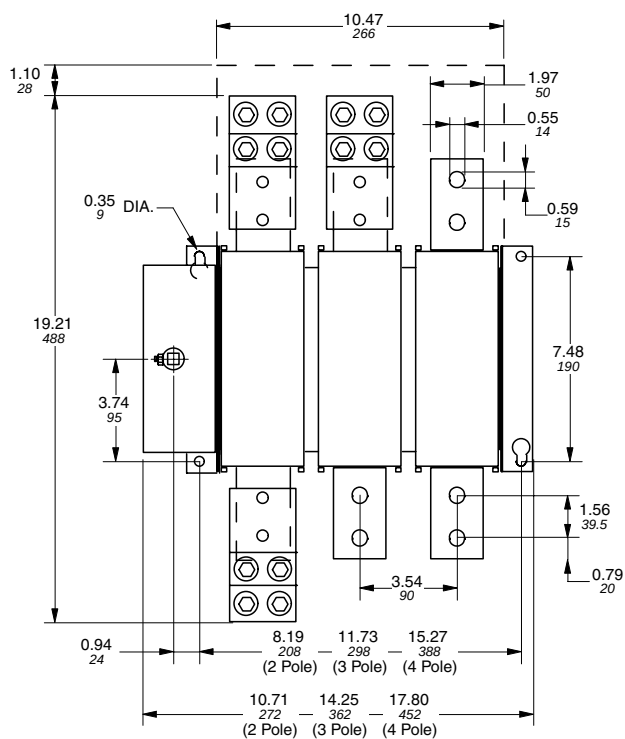
Enclosed Non-Fused

**BDNF800A – BDNF1200**

**BDNF800A**



**BDNF1200**

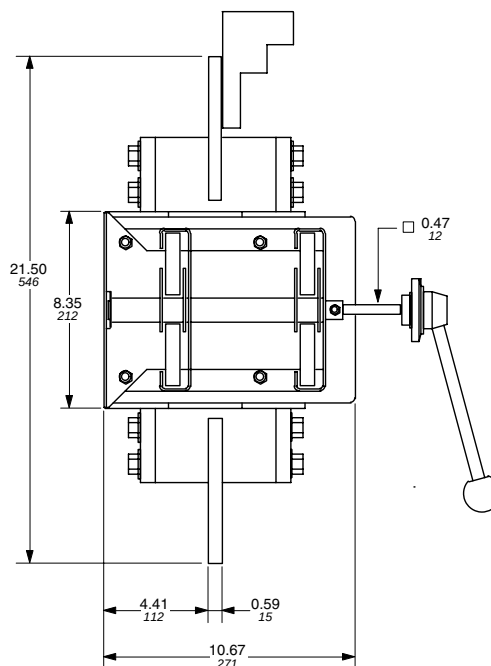
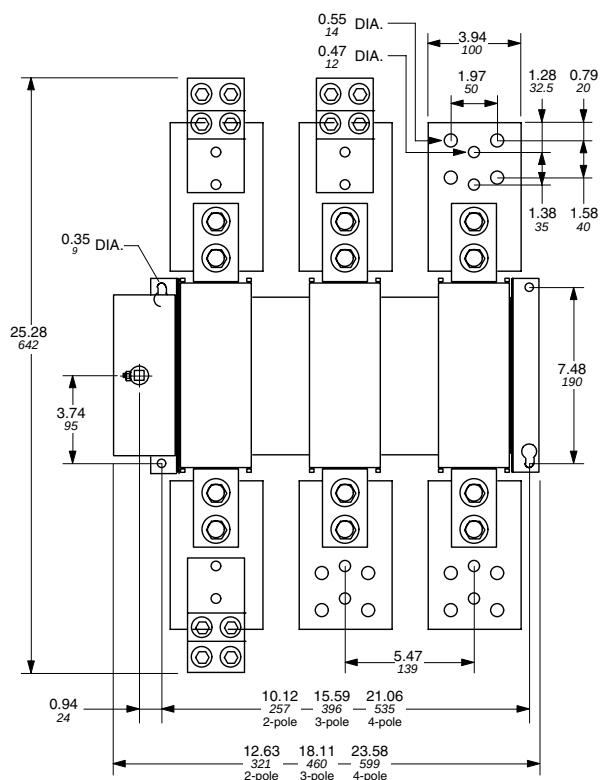






**COOPER** Bussmann

## BDNF1600



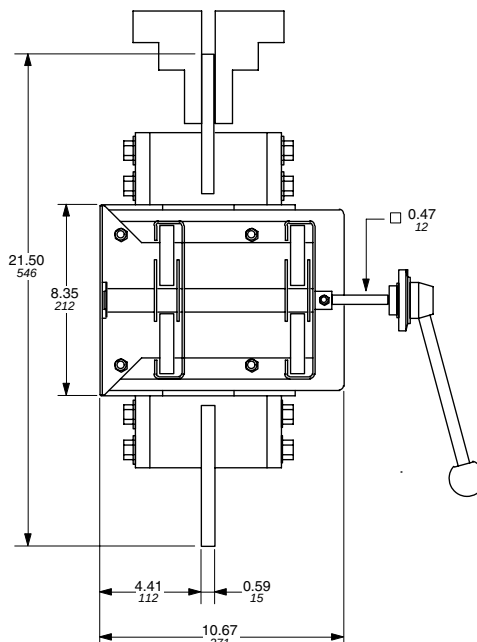
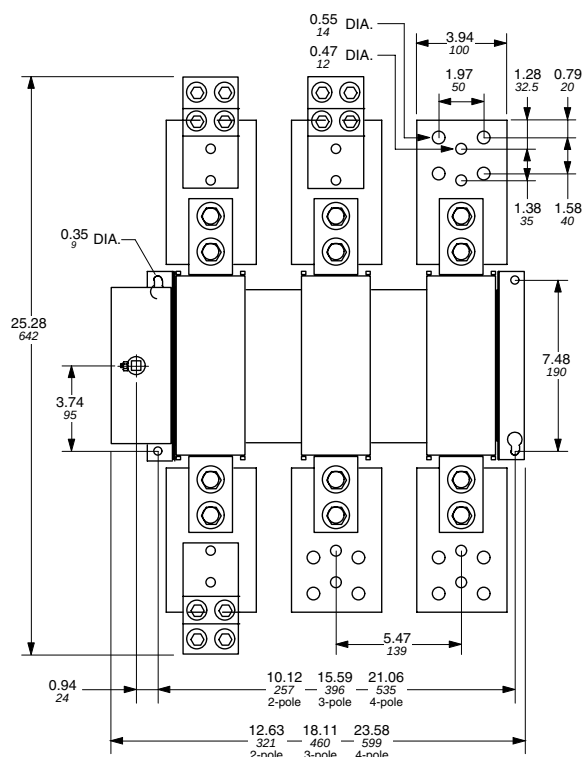
## Fusible

## Non-Fused

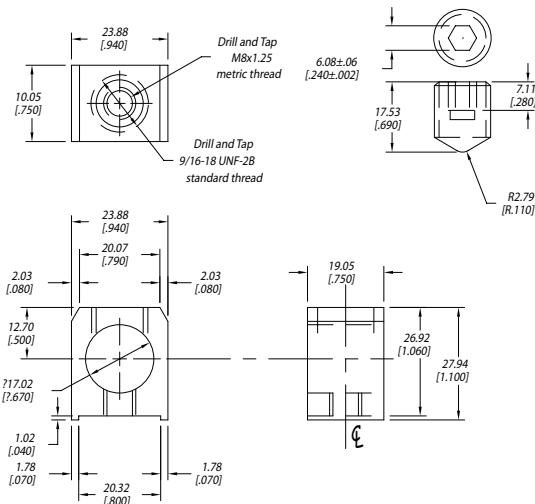
## Enclosed Fused

## Enclosed Non-Fused

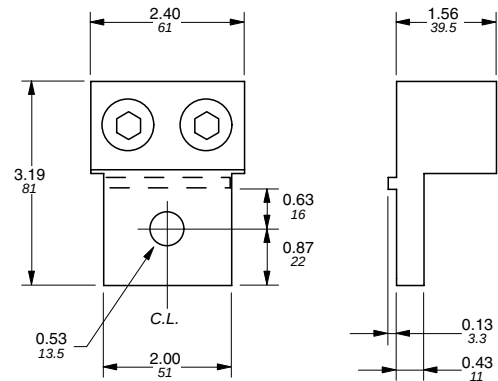
**BDNF2000 – BDNF3150**



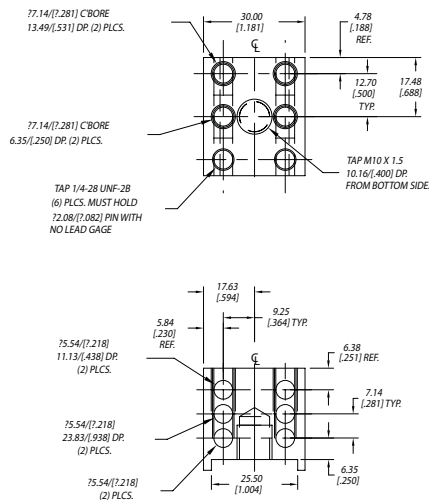
CDTL200/3P — for use with 200A switches



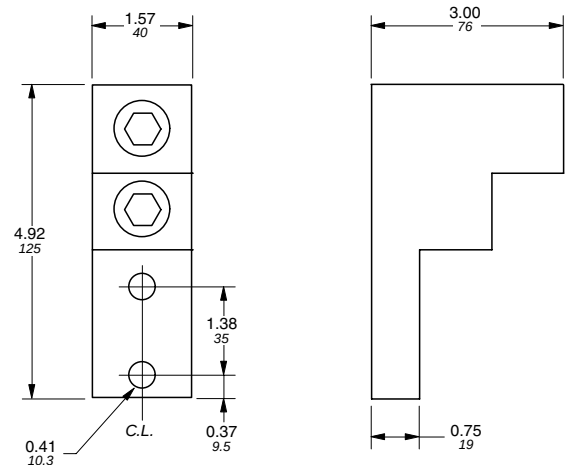
BDTL27 — for use with 600A switches



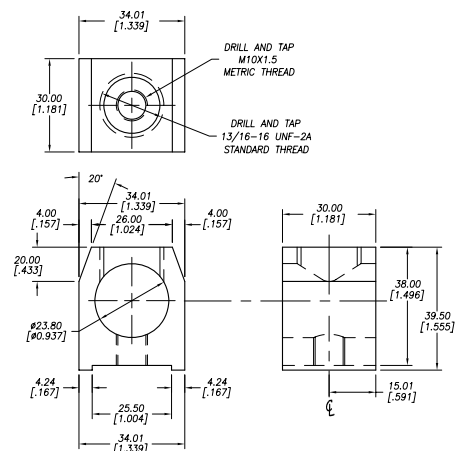
CDTL206 — for use with 200A switches



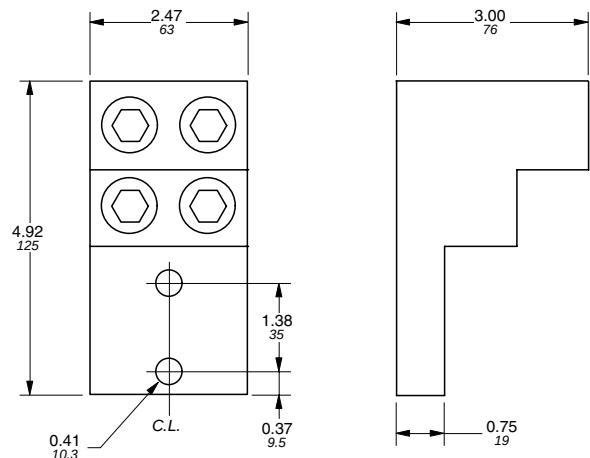
BDTL30 — for use with 800A switches



CDTL400/3P — for use with 400A switches



BDTL28 & BDTL28/2 — for use with 1200A – 3150A switches



30A – 800A

# Enclosed Fusible Disconnect Switches



EFJ30X-3PB6

## 3 Pole<sup>①</sup>, 600V, 30A - 3150A

NEMA / UL Enclosure type

| UL general purpose<br>amp rating | Fuse<br>type   | NEMA / UL Enclosure type |                   |                   |                   |                   |                   |
|----------------------------------|----------------|--------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|                                  |                | 1                        | 3R                | 4                 | 4X Stainless      | 4X Plastic        | 12                |
|                                  |                | Catalog<br>number        | Catalog<br>number | Catalog<br>number | Catalog<br>number | Catalog<br>number | Catalog<br>number |
| 30                               | J              | EFJ301-3PB6              | EFJ303-3PB6       | EFJ304-3PB6       | EFJ30X-3PB6       | EFJ30P-3PB6       | EFJ302-3PB6       |
| 30                               | CC             | EFC301-3PB6              | EFC303-3PB6       | EFC304-3PB6       | EFC30X-3PB6       | EFC30P-3PB6       | EFC302-3PB6       |
| 60                               | J              | EFC601-3PB6              | EFC303-3PB6       | EFC604-3PB8       | EFC60X-3PB8       | EFJ60P-3PB8       | EFJ602-3PB6       |
| 100                              | J              | EFJ1001-3PB8             | EFJ1003-3PB8      | EFJ1004-3PB8      | EFJ100X-3PB8      | EFJ100P-3PB8      | EFJ1002-3PB8      |
| 200                              | J <sup>②</sup> | EFJ2001-3PB8C            | EFJ2003-3PB8C     | EFJ2004-3PB8C     | EFJ200X-3PB8C     | EFJ200P-3PB8C     | EFJ2002-3PB8C     |
| 400                              | J <sup>②</sup> | EFJ4001-3PB4             | EFJ4003-3PB4      | EFJ4004-3PB4      | EFJ400X-3PB4      | EFJ400P-3PB4      | EFJ4002-3PB4      |
| 600                              | J <sup>②</sup> | EFJ6001-3PB4             | EFJ6003-3PB4      | EFJ6004-3PB4      | EFJ600X-3PB4      | EFJ600P-3PB4      | EFJ6002-3PB4      |
| 800                              | L              | EFJ8001-3PB4             | EFJ8003-3PB4      | EFJ8004-3PB4      | EFJ800X-3PB4      | EFJ800P-3PB4      | EFJ8002-3PB4      |

## Switch ratings

| UL general<br>purpose<br>amp rating | Maximum horsepower rating |      |      |             |      |      |      |      | Wire size for terminal lugs | For wire type | Approval <sup>①</sup> |
|-------------------------------------|---------------------------|------|------|-------------|------|------|------|------|-----------------------------|---------------|-----------------------|
|                                     | Single phase              |      |      | Three phase |      |      |      |      |                             |               |                       |
|                                     | 120V                      | 200V | 240V | 200V        | 208V | 240V | 480V | 600V |                             |               |                       |
| 30                                  | 2                         | 3    | 5    | 5           | 7.5  | 7.5  | 15   | 20   | #18 – 8                     | Cu            | cULus, UL             |
| 60                                  | 3                         | 7.5  | 10   | 15          | 15   | 15   | 30   | 50   | #14 – 4                     | Cu            | cULus, UL             |
| 100                                 | 5                         | 10   | 15   | 25          | 25   | 30   | 60   | 75   | #14 – 2/0                   | Cu/Al         | cULus, UL             |
| 200                                 | —                         | —    | —    | 50          | 50   | 60   | 125  | 150  | #4 – 300 kcmil              | Cu/Al         | cULus, UL             |
| 400                                 | —                         | —    | —    | 100         | 125  | 125  | 250  | 350  | #2 – 600 kcmil              | Cu/Al         | cULus, UL             |
| 600                                 | —                         | —    | —    | 150         | 150  | 200  | 400  | 500  | (2) #2 – 600 kcmil          | Cu/Al         | cULus, UL             |
| 800                                 | —                         | —    | —    | 200         | 200  | 250  | 500  | 600  | (2) #2 – 600 kcmil          | Cu/Al         | cULus, UL             |

① Fusible switches are UL Listed to the UL98 standard.

② 600V T type fuse clips may be substituted at no charge. Please change the second character of the catalog number from "J" to "T."

Fusible

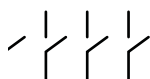
Non-Fused

Enclosed Fused

Enclosed Non-Fused

## NEMA / UL Enclosure type

| UL general purpose<br>amp rating | Type of<br>Switch   | 1                 | 3R                | 4                 | 4X Stainless      | 4X Plastic        | 12                |
|----------------------------------|---------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|                                  |                     | Catalog<br>number | Catalog<br>number | Catalog<br>number | Catalog<br>number | Catalog<br>number | Catalog<br>number |
| 30 (J fuses)                     | 4 Pole <sup>①</sup> | EFJ301-4PB6       | EFJ303-4PB6       | EFJ304-4PB6       | EFJ30X-4PB6       | EFJ30P-4PB6       | EFJ302-4PB6       |
|                                  | 6 Pole              | EFJ301-6PB6       | EFJ303-6PB6       | EFJ304-6PB6       | EFJ30X-6PB6       | EFJ30P-6PB6       | EFJ302-6PB6       |
| 30 (CC fuses)                    | 4 Pole <sup>①</sup> | EFC301-4PB6       | EFC303-4PB6       | EFC304-4PB6       | EFC30X-4PB6       | EFC30P-4PB6       | EFC302-4PB6       |
|                                  | 6 Pole              | EFC301-6PB6       | EFC303-6PB6       | EFC304-6PB6       | EFC30X-6PB6       | EFC30P-6PB6       | EFC302-6PB6       |
| 60                               | 4 Pole <sup>①</sup> | EFJ601-4PB6       | EFJ603-4PB6       | EFJ604-4PB6       | EFJ60X-4PB6       | EFJ60P-4PB6       | EFJ602-4PB6       |
|                                  | 6 Pole              | EFJ601-6PB4       | EFJ603-6PB4       | EFJ604-6PB4       | EFJ60X-6PB4       | EFJ60P-6PB4       | EFJ602-6PB4       |
| 100                              | 2 Pole <sup>①</sup> | EFJ1001-2PB8      | EFJ1003-2PB8      | EFJ1004-2PB8      | EFJ100X-2PB8      | EFJ100P-2PB8      | EFJ1002-2PB8      |
|                                  | 4 Pole <sup>①</sup> | EFJ1001-4PB8      | EFJ1003-4PB8      | EFJ1004-4PB8      | EFJ100X-4PB8      | EFJ100P-4PB8      | EFJ1002-4PB8      |
|                                  | 6 Pole              | EFJ1001-6PB4      | EFJ1003-6PB4      | EFJ1004-6PB4      | EFJ100X-6PB4      | EFJ100P-6PB4      | EFJ1002-6PB4      |
| 200                              | 4 Pole <sup>①</sup> | EFJ2001-4PB8C     | EFJ2003-4PB8C     | EFJ2004-4PB8C     | EFJ200X-4PB8C     | EFJ200P-4PB8C     | EFJ2002-4PB8C     |
|                                  | 6 Pole              | —                 | —                 | —                 | —                 | —                 | —                 |
| 400                              | 2 Pole <sup>①</sup> | EFJ4001-2PB4      | EFJ4003-2PB4      | EFJ4004-2PB4      | EFJ400X-2PB4      | EFJ400P-2PB4      | EFJ4002-2PB4      |
|                                  | 4 Pole <sup>①</sup> | EFJ4001-4PB4      | EFJ4003-4PB4      | EFJ4004-4PB4      | EFJ400X-4PB4      | EFJ400P-4PB4      | EFJ4002-4PB4      |
|                                  | 6 Pole              | EFJ4001-6P8       | EFJ4003-6P8       | EFJ4004-6P8       | EFJ400X-6P8       | EFJ400P-6P8       | EFJ4002-6P8       |
| 600                              | 2 Pole <sup>①</sup> | EFJ6001-2PB4      | EFJ6003-2PB4      | EFJ6004-2PB4      | EFJ600X-2PB4      | EFJ600P-2PB4      | EFJ6002-2PB4      |
|                                  | 4 Pole <sup>①</sup> | EFJ6001-4PB4      | EFJ6003-4PB4      | EFJ6004-4PB4      | EFJ600X-4PB4      | EFJ600P-4PB4      | EFJ6002-4PB4      |
|                                  | 6 Pole              | EFJ6001-6P8       | EFJ6003-6P8       | EFJ6004-6P8       | EFJ600X-6P8       | EFJ600P-6P8       | EFJ6002-6P8       |
| 800                              | 2 Pole <sup>①</sup> | EFL8001-2PB4      | EFL8003-2PB4      | EFL8004-2PB4      | EFL800X-2PB4      | EFL800P-2PB4      | EFL8002-2PB4      |
|                                  | 4 Pole <sup>①</sup> | EFL8001-4PB4      | EFL8003-4PB4      | EFL8004-4PB4      | EFL800X-4PB4      | EFL800P-4PB4      | EFL8002-4PB4      |
|                                  | 6 Pole              | EFL8001-6P8       | EFL8003-6P8       | EFL8004-6P8       | EFL800X-6P8       | EFL800P-6P8       | EFL8002-6P8       |

**2 Pole****4 Pole****6 Pole****Handle ratings**

| Amperage<br>range                  | Style<br>type | NEMA         | Color   | Marking      | Defeatable | Padlockable | Catalog number<br>suffix | Catalog<br>number |
|------------------------------------|---------------|--------------|---------|--------------|------------|-------------|--------------------------|-------------------|
| 30                                 | Selector      | 1,3R,12      | Black   | 0/I & OFF/ON | Yes        | Yes         | BJ                       | CDH5S             |
|                                    | Selector      | 1,3R,12      | Red/Yel | 0/I & OFF/ON | Yes        | Yes         | YJ                       | CDH6S             |
|                                    | Pistol        | 1,3R,12      | Black   | 0/I & OFF/ON | Yes        | Yes         | B6                       | BDH106            |
|                                    | Pistol        | 1,3R,12      | Red/Yel | 0/I & OFF/ON | Yes        | Yes         | Y6                       | BDH107            |
|                                    | Pistol        | 1,3R,4,4X,12 | Black   | 0/I & OFF/ON | Yes        | Yes         | B6                       | CDHXB65           |
|                                    | Pistol        | 1,3R,4,4X,12 | Red/Yel | 0/I & OFF/ON | Yes        | Yes         | Y6                       | CDHXY65           |
| 60 – 100<br>and<br>200A 3 & 4 Pole | Pistol        | 1,3R,12      | Black   | 0/I & OFF/ON | Yes        | Yes         | B6                       | BDH58             |
|                                    | Pistol        | 1,3R,12      | Red/Yel | 0/I & OFF/ON | Yes        | Yes         | Y6                       | BDH59             |
|                                    | Pistol        | 1,3R,12      | Black   | 0/I & OFF/ON | Yes        | Yes         | B8                       | BDH60             |
|                                    | Pistol        | 1,3R,12      | Red/Yel | 0/I & OFF/ON | Yes        | Yes         | Y8                       | BDH61             |
|                                    | Pistol        | 1,3R,4,4X,12 | Black   | 0/I & OFF/ON | Yes        | Yes         | B8                       | CDHXB86           |
|                                    | Pistol        | 1,3R,4,4X,12 | Red/Yel | 0/I & OFF/ON | Yes        | Yes         | Y8                       | CDHXY86           |
| 400A – 800A                        | Pistol        | 1,3R,12      | Black   | 0/I & OFF/ON | Yes        | Yes         | B4                       | BDH114            |
|                                    | Pistol        | 1,3R,12      | Red/Yel | 0/I & OFF/ON | Yes        | Yes         | Y4                       | BDH115            |
|                                    | Pistol        | 1,3R,12      | Black   | 0/I & OFF/ON | Yes        | Yes         | B7                       | BDH116            |
|                                    | Pistol        | 1,3R,12      | Red/Yel | 0/I & OFF/ON | Yes        | Yes         | Y7                       | BDH117            |
|                                    | Pistol        | 1,3R 4,4X,12 | Black   | 0/I & OFF/ON | Yes        | Yes         | B4                       | CDHXB12           |
|                                    | Pistol        | 1,3R,4,4X,12 | Red/Yel | 0/I & OFF/ON | Yes        | Yes         | Y4                       | CDHXY12           |
|                                    | Pistol        | 1,3R,4,4X,12 | Black   | 0/I & OFF/ON | Yes        | Yes         | B7                       | CDHXB22           |
|                                    | Pistol        | 1,3R,4,4X,12 | Red/Yel | 0/I & OFF/ON | Yes        | Yes         | Y7                       | CDHXY22           |
|                                    | Pistol        | 1,3R,4,4X,12 | Metal   | 0/I & OFF/ON | No         | Yes         | 8                        | BDH8              |

① Fusible switches are UL Listed to the UL98 standard.

② 600V T type fuse clips may be substituted at no charge. Please change the second character of the catalog number from "J" to "T."

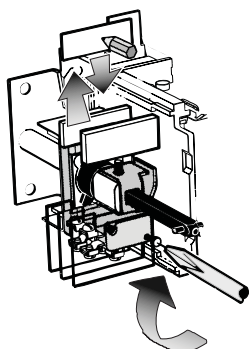
# Accessories for Enclosed Fusible Disconnect Switches



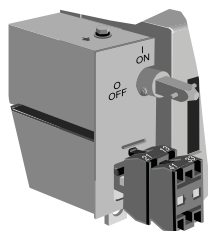
16A – 3150A NF



BDAUX157



BDAUX7  
BDAUX8



BDAUX1  
BDAUX2



3 Position selection switch



Pilot light

## Auxiliary Contacts

| For use on: | Contact configuration               | Catalog number      | Installation suffix                |
|-------------|-------------------------------------|---------------------|------------------------------------|
| 30A         | 1 N.O. + 1 N. C.<br>2 N.O. + 2 N.C. | BDAUX157            | add "11" suffix<br>add "22" suffix |
| 60A – 200A  | 1 N.O.<br>1 N.C.                    | CDAUX10<br>CDAUX01K | add "10" suffix<br>add "01" suffix |
| 400A – 800A | 1 N.O. & 1 N.C.<br>2 N.O. & 2 N.C.  | BDAUX1<br>BDAUX12   | add "11" suffix<br>add "22" suffix |

## Accessories

| For use on: | Description                                                                                                                                 | Installation suffix          |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| 30A         | Neutral block                                                                                                                               | N                            |
| 60A – 100A  | Neutral block                                                                                                                               | N                            |
| 200A – 400A | Neutral block                                                                                                                               | N                            |
| 600A – 800A | Neutral block                                                                                                                               | N                            |
| 30A – 200A  | Service entrance, 3 wire<br>Service entrance, 4 wire                                                                                        | U<br>V                       |
| 400A – 800A | Service entrance, 3 wire<br>Service entrance, 4 wire                                                                                        | U<br>V                       |
| 30A – 800A  | Start/stop pushbuttons<br>2 position selector switch<br>3 position selector switch<br>Pilot light "red/run"<br>Ammeter 1 phase<br>Voltmeter | A<br>C<br>D<br>E<br>AM<br>VM |

## Ground Lugs

All enclosed switches are provided with a standard integral ground lug.

| Switch size | Ground lug wire size |
|-------------|----------------------|
| 30          | (2) # 14             |
| 60          | #14 – 1/0            |
| 100 – 400   | #6 – 250             |
| 600 – 800   | #2 – 600 mcm         |

## Conversion mechanisms

### 6 or 8 pole

6 (8) pole mechanism allows two switches controlled by one handle to open or close simultaneously.

②

|       | POS. O | POS. I |
|-------|--------|--------|
| SW. A | O      | X      |
| SW. B | O      | X      |

X = Closed  
O = Open

① Transfer and bypass enclosed switches include the load side bussed or cabled together, and all switches come standard with ground lugs.

② = Three poles

Fusible

Non-Fused

Enclosed Fused

Enclosed Non-Fused

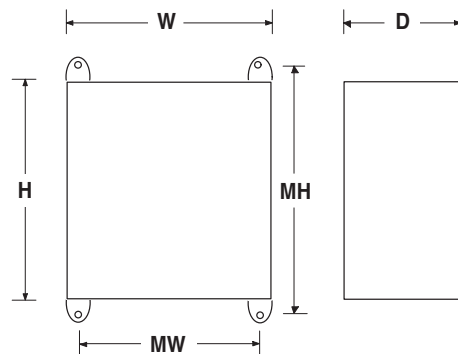
# Approximate Dimensions for Enclosed Fusible Disconnect Switches

**16A – 3150A NF; 30A – 800A F**
**2, 3 & 4<sup>2</sup> Pole Fusible switches**

| Frame Size | Enclosure type | H Height | W Width | D Depth | MH Mtg Height | MW Mtg Width | Weight |
|------------|----------------|----------|---------|---------|---------------|--------------|--------|
| CFD30_     | 1              | 10.00    | 8.00    | 5.00    | 7.00          | 7.00         | 12.0   |
|            | 3R             | 10.00    | 8.00    | 5.00    | 10.75         | 6.00         | 12.0   |
|            | 4              | 10.00    | 8.00    | 6.00    | 10.75         | 6.00         | 12.0   |
|            | 4X SS          | 10.00    | 8.00    | 5.00    | 10.75         | 6.00         | 12.0   |
|            | 4X Plastic     | 10.00    | 8.00    | 5.90    | 10.75         | 6.00         | 8.0    |
|            | 12             | 10.00    | 8.00    | 5.00    | 10.75         | 6.00         | 12.0   |
| CFD60_     | 1              | 10.00    | 8.00    | 6.00    | 7.00          | 7.00         | 13.0   |
|            | 3R             | 10.00    | 8.00    | 6.00    | 10.75         | 6.00         | 13.0   |
|            | 4              | 10.00    | 8.00    | 6.00    | 10.75         | 6.00         | 13.0   |
|            | 4X SS          | 10.00    | 8.00    | 6.00    | 10.75         | 6.00         | 13.0   |
|            | 4X Plastic     | 10.00    | 8.00    | 5.90    | 10.75         | 6.00         | 9.0    |
|            | 12             | 10.00    | 8.00    | 6.00    | 10.75         | 6.00         | 13.0   |
| CFD100_    | 1              | 14.00    | 12.00   | 8.00    | 11.00         | 9.00         | 22.00  |
|            | 3R             | 14.00    | 12.00   | 8.00    | 14.75         | 10.00        | 22.00  |
|            | 4              | 14.00    | 12.00   | 8.00    | 14.75         | 10.00        | 22.00  |
|            | 4X SS          | 14.00    | 12.00   | 8.00    | 14.75         | 10.00        | 22.00  |
|            | 4X Plastic     | 14.00    | 12.00   | 8.00    | 14.75         | 10.00        | 16.00  |
|            | 12             | 14.00    | 12.00   | 8.00    | 14.75         | 10.00        | 22.00  |
| CFD200_    | 1              | 24.00    | 16.00   | 8.00    | 25.50         | 18.50        | 75.00  |
|            | 3R             | 24.00    | 16.00   | 8.00    | 25.50         | 18.50        | 75.00  |
|            | 4              | 24.00    | 16.00   | 8.00    | 25.50         | 18.50        | 75.00  |
|            | 4X SS          | 24.00    | 16.00   | 8.00    | 25.50         | 18.50        | 75.00  |
|            | 4X Plastic     | ①        | ①       | ①       | ①             | ①            | ①      |
|            | 12             | 24.00    | 16.00   | 10.00   | 25.50         | 18.00        | 75.00  |
| FD400_     | 1              | 44.00    | 22.00   | 11.00   | 45.50         | 20.50        | 150.00 |
|            | 3R             | 44.00    | 22.00   | 11.00   | 49.50         | 20.50        | 150.00 |
|            | 4              | 48.00    | 24.00   | 12.00   | 49.50         | 22.50        | 150.00 |
|            | 4X SS          | 48.00    | 24.00   | 12.00   | 49.50         | 22.50        | 150.00 |
|            | 4X Plastic     | ①        | ①       | ①       | ①             | ①            | ①      |
|            | 12             | 44.00    | 22.00   | 11.00   | 45.50         | 20.50        | 150.00 |
| FD600_     | 1              | 44.00    | 22.00   | 11.00   | 45.50         | 20.50        | 150.00 |
|            | 3R             | 44.00    | 22.00   | 11.00   | 49.50         | 20.50        | 150.00 |
|            | 4              | 48.00    | 24.00   | 12.00   | 49.50         | 22.50        | 150.00 |
|            | 4X SS          | 48.00    | 24.00   | 12.00   | 49.50         | 22.50        | 150.00 |
|            | 4X Plastic     | ①        | ①       | ①       | ①             | ①            | ①      |
|            | 12             | 44.00    | 22.00   | 11.00   | 45.50         | 20.50        | 150.00 |
| FD800_     | 1              | 48.00    | 24.00   | 12.00   | 49.50         | 22.50        | 170.00 |
|            | 3R             | 48.00    | 24.00   | 12.00   | 49.50         | 22.50        | 170.00 |
|            | 4              | 48.00    | 24.00   | 12.00   | 49.50         | 22.50        | 170.00 |
|            | 4X SS          | 48.00    | 24.00   | 12.00   | 49.50         | 22.50        | 170.00 |
|            | 4X Plastic     | ①        | ①       | ①       | ①             | ①            | ①      |
|            | 12             | 48.00    | 24.00   | 12.00   | 49.50         | 22.50        | 170.00 |

**6 Pole Fusible switches**

| Frame Size | Enclosure type | H Height | W Width | D Depth | MH Mtg Height | MW Mtg Width | Weight |
|------------|----------------|----------|---------|---------|---------------|--------------|--------|
| CFD30_     | 1              | 14.00    | 12.00   | 8.00    | 11.00         | 9.00         | 22.00  |
|            | 3R             | 14.00    | 12.00   | 8.00    | 14.75         | 10.00        | 22.00  |
|            | 4              | 14.00    | 12.00   | 8.00    | 14.75         | 10.00        | 22.00  |
|            | 4X SS          | 14.00    | 12.00   | 8.00    | 14.75         | 10.00        | 22.00  |
|            | 4X Plastic     | 14.00    | 12.00   | 8.00    | 14.75         | 10.00        | 16.00  |
|            | 12             | 14.00    | 12.00   | 8.00    | 14.75         | 10.00        | 22.00  |
| CFD60_     | 1              | 20.00    | 20.00   | 8.00    | 21.50         | 18.50        | 60.00  |
|            | 3R             | 20.00    | 20.00   | 8.00    | 21.50         | 18.50        | 60.00  |
|            | 4              | 20.00    | 20.00   | 8.00    | 21.50         | 18.50        | 60.00  |
|            | 4X SS          | 20.00    | 20.00   | 8.00    | 21.50         | 18.50        | 60.00  |
|            | 4X Plastic     | 24.00    | 16.00   | 10.00   | —             | —            | 60.00  |
|            | 12             | 20.00    | 20.00   | 8.00    | 21.50         | 18.50        | 60.00  |
| CFD100_    | 1              | 20.00    | 20.00   | 8.00    | 21.50         | 18.50        | 60.00  |
|            | 3R             | 20.00    | 20.00   | 8.00    | 21.50         | 18.50        | 60.00  |
|            | 4              | 20.00    | 20.00   | 8.00    | 21.50         | 18.50        | 60.00  |
|            | 4X SS          | 20.00    | 20.00   | 8.00    | 21.50         | 18.50        | 60.00  |
|            | 4X             | 24.00    | 16.00   | 10.00   | 21.50         | 18.50        | 60.00  |
|            | 12             | 20.00    | 20.00   | 8.00    | 21.50         | 18.50        | 60.00  |
| CFD200_    | 1              | 36.00    | 30.00   | 12.00   | 37.50         | 28.50        | 100.0  |
|            | 3R             | 36.00    | 30.00   | 12.00   | 37.50         | 28.50        | 100.0  |
|            | 4              | 36.00    | 30.00   | 12.00   | 37.50         | 28.50        | 100.0  |
|            | 4X SS          | 36.00    | 30.00   | 12.00   | 37.50         | 28.50        | 100.0  |
|            | 4X Plastic     | ①        | ①       | ①       | ①             | ①            | ①      |
|            | 12             | 36.00    | 30.00   | 12.00   | 37.50         | 28.50        | 100.0  |
| FD400_     | 1              | 48.00    | 36.00   | 16.00   | 49.50         | 34.50        | 220.00 |
|            | 3R             | 48.00    | 36.00   | 16.00   | 49.50         | 34.50        | 220.00 |
|            | 4              | 48.00    | 36.00   | 16.00   | 49.50         | 34.50        | 220.00 |
|            | 4X SS          | 48.00    | 36.00   | 16.00   | 49.50         | 34.50        | 220.00 |
|            | 4X Plastic     | ①        | ①       | ①       | ①             | ①            | ①      |
|            | 12             | 48.00    | 36.00   | 16.00   | 49.50         | 34.50        | 220.00 |
| FD600_     | 1              | 48.00    | 36.00   | 16.00   | 49.50         | 34.50        | 230.00 |
|            | 3R             | 48.00    | 36.00   | 16.00   | 49.50         | 34.50        | 230.00 |
|            | 4              | 48.00    | 36.00   | 16.00   | 49.50         | 34.50        | 230.00 |
|            | 4X SS          | 48.00    | 36.00   | 16.00   | 49.50         | 34.50        | 230.00 |
|            | 4X Plastic     | ①        | ①       | ①       | ①             | ①            | ①      |
|            | 12             | 48.00    | 36.00   | 16.00   | 49.50         | 34.50        | 230.00 |
| FD800_     | 1              | 48.00    | 36.00   | 16.00   | 49.50         | 34.50        | 230.00 |
|            | 3R             | 48.00    | 36.00   | 16.00   | 49.50         | 34.50        | 230.00 |
|            | 4              | 48.00    | 36.00   | 16.00   | 49.50         | 34.50        | 230.00 |
|            | 4X SS          | 48.00    | 36.00   | 16.00   | 49.50         | 34.50        | 230.00 |
|            | 4X Plastic     | ①        | ①       | ①       | ①             | ①            | ①      |
|            | 12             | 48.00    | 36.00   | 16.00   | 49.50         | 34.50        | 230.00 |



2

1 Please consult factory.

2 Some 4-pole switches require larger enclosures. Please consult factory.

# 16A – 3150A Enclosed Non-Fusible Disconnect Switches



ENF321-3PBJ



ENF63X-3PB6

## 3 Pole, 600V, 16A – 100A — Selector handle

| UL general purpose<br>amp rating | NEMA Enclosure type |                   |                                                                     |                                                                                |
|----------------------------------|---------------------|-------------------|---------------------------------------------------------------------|--------------------------------------------------------------------------------|
|                                  | 1                   | 3R                | 4 <sup>①</sup><br>Selector handles are only<br>NEMA rated 1, 3R, 12 | 4X Stainless <sup>②</sup><br>Selector handles are only<br>NEMA rated 1, 3R, 12 |
|                                  | Catalog<br>number   | Catalog<br>number | Catalog<br>number                                                   | Catalog<br>number                                                              |
| 16                               | ENF161-3PBJ         | ENF163-3PBJ       | ENF164-3PBJ                                                         | ENF16X-3PBJ                                                                    |
| 25                               | ENF251-3PBJ         | ENF253-3PBJ       | ENF254-3PBJ                                                         | ENF25X-3PBJ                                                                    |
| 40                               | ENF321-3PBJ         | ENF323-3PBJ       | ENF324-3PBJ                                                         | ENF32X-3PBJ                                                                    |
| 60                               | ENF451-3PBJ         | ENF453-3PBJ       | ENF454-3PBJ                                                         | ENF45X-3PBJ                                                                    |
| 80                               | ENF631-3PBJ         | ENF633-3PBJ       | ENF634-3PBJ                                                         | ENF63X-3PBJ                                                                    |

## 3 Pole, 600V, 16A – 3150A — Pistol handle

| UL general purpose<br>amp rating | NEMA Enclosure type |                   |                   |                   |
|----------------------------------|---------------------|-------------------|-------------------|-------------------|
|                                  | 1                   | 3R                | 4                 | 4X Stainless      |
|                                  | Catalog<br>number   | Catalog<br>number | Catalog<br>number | Catalog<br>number |
| UL 508                           | 16                  | ENF161-3PB6       | ENF163-3PB6       | ENF164-3PB6       |
|                                  | 25                  | ENF251-3PB6       | ENF253-3PB6       | ENF254-3PB6       |
|                                  | 40                  | ENF321-3PB6       | ENF323-3PB6       | ENF324-3PB6       |
|                                  | 60                  | ENF451-3PB6       | ENF453-3PB6       | ENF454-3PB6       |
|                                  | 80                  | ENF631-3PB6       | ENF633-3PB6       | ENF634-3PB6       |
| UL 98                            | 30                  | ENF301-3PB6       | ENF303-3PB6       | ENF304-3PB6       |
|                                  | 60                  | ENF601-3PB6       | ENF603-3PB6       | ENF604-3PB6       |
|                                  | 100                 | ENF1001-3PB6      | ENF1003-3PB6      | ENF1004-3PB6      |
|                                  | 125                 | ENF1251-3PB6      | ENF1253-3PB6      | ENF1254-3PB6      |
|                                  | 200                 | ENF2001-3PB8B     | ENF2003-3PB8B     | ENF2004-3PB8B     |
|                                  | 400                 | ENF4001-3PB4B     | ENF4003-3PB4B     | ENF4004-3PB4B     |
|                                  | 600                 | ENF6001-3PB4      | ENF6003-3PB4      | ENF6004-3PB4      |
|                                  | 800                 | ENF8001-3PB4      | ENF8003-3PB4      | ENF8004-3PB4      |
|                                  | 1200                | ENF12001-3PB4     | ENF12003-3PB4     | ENF12004-3PB4     |
|                                  | 1600                | ENF16001-3P8      | ENF16003-3P8      | ENF16004-3P8      |
|                                  | 2000                | ENF20001-3P8      | ENF20003-3P8      | ENF20004-3P8      |
|                                  | 3150 <sup>②</sup>   | ENF31501-3P8      | ENF31503-3P8      | ENF31504-3P8      |

① Enclosures are rated as listed, selector handles are only NEMA rated 1, 3R, 12. The overall NEMA rating of an enclosed switch with a selector handle is 1, 3R, 12.

② IEC rated only.

Fusible

Non-Fused

Enclosed Fused

Enclosed Non-Fused

Fusible

Non-Fused

Enclosed Fused

Enclosed Non-Fused



ENF25P-3PY6



ENF252-3PYJ



ENF16E-3PBJ A



ENF16E-3PBJ B

**3 Pole, 600V, 16A – 100A — Selector handle**

| UL general purpose<br>amp rating | NEMA Enclosure type                                              |                   | IEC Enclosure type |
|----------------------------------|------------------------------------------------------------------|-------------------|--------------------|
|                                  | 4X Plastic®<br>Selector handles are only<br>NEMA rated 1, 3R, 12 | 12                | IP65 Plastic       |
|                                  | Catalog<br>number                                                | Catalog<br>number | Catalog<br>number  |
| 16                               | ENF16P-3PBJ                                                      | ENF162-3PBJ       | ENF16E-3PBJ A or B |
| 25                               | ENF25P-3PBJ                                                      | ENF252-3PBJ       | ENF25E-3PBJ        |
| 40                               | ENF32P-3PBJ                                                      | ENF322-3PBJ       | ENF32E-3PBJ        |
| 60                               | ENF45P-3PBJ                                                      | ENF452-3PBJ       | ENF45E-3PBJ        |
| 80                               | ENF63P-3PBJ                                                      | ENF632-3PBJ       | ENF63E-3PBJ        |

**3 Pole, 600V, 16A – 3150A — Pistol handle**

| UL general purpose<br>amp rating | NEMA Enclosure type |                   | IEC Enclosure type |
|----------------------------------|---------------------|-------------------|--------------------|
|                                  | 4X Plastic          | 12                | IP65 Plastic       |
|                                  | Catalog<br>number   | Catalog<br>number | Catalog<br>number  |
| 16                               | ENF16P-3PB6         | ENF162-3PB6       | ENF16E-3PB4        |
| 25                               | ENF25P-3PB6         | ENF252-3PB6       | ENF25E-3PB4        |
| 40                               | ENF32P-3PB6         | ENF322-3PB6       | ENF32E-3PB4        |
| 60                               | ENF45P-3PB6         | ENF452-3PB6       | ENF45E-3PB4        |
| 80                               | ENF63P-3PB6         | ENF632-3PB6       | ENF63E-3PB4        |
| 30                               | ENF30P-3PB6         | ENF302-3PB6       | ENF30E-3PB6        |
| 60                               | ENF60P-3PB6         | ENF602-3PB6       | ENF60E-3PB6        |
| 100                              | ENF100P-3PB6        | ENF1002-3PB6      | ENF100E-3PB6       |
| 125                              | ENF125P-3PB6        | ENF1252-3PB6      | ENF125E-3PB6       |
| 200                              | ENF200P-3PB8B       | ENF2002-3PB8B     | —                  |
| 400                              | ENF400P-3PB4B       | ENF4002-3PB4B     | —                  |
| 600                              | ENF600P-3PB4        | ENF6002-3PB4      | —                  |
| 800                              | ENF800P-3PB4        | ENF8002-3PB4      | —                  |
| 1200                             | ENF1200P-3PB4       | ENF12002-3PB4     | —                  |
| 1600                             | ENF1600P-3P8        | ENF16002-3P8      | —                  |
| 2000                             | ENF2000P-3P8        | ENF20002-3P8      | —                  |
| 3150®                            | ENF3150P-3P8        | ENF31502-3P8      | —                  |

**NOTE:** All enclosed switches are provided with a black handle; however, most handles can be substituted with a red and yellow handle if desired. Please substitute the handle suffix code (2nd and 3rd from last characters) with the red/yellow handle catalog number suffix from page 3.12. There is no additional price adder for changing to a red/yellow handle of equal ratings and style.

**EXAMPLE:** A red/yellow selector handle for an NF161-3PBJA can be substituted for the black selector handle by using the "YJ" suffix instead of the "BJ" suffix, new catalog #NF161-3PYJA.

① Enclosures are rated as listed, selector handles are only NEMA rated 1, 3R, 12. The overall NEMA rating of an enclosed switch with a selector handle is 1, 3R, 12.

② IEC rated only.



**Other Configurations**

| UL<br>General purpose<br>amp rating | Type of switch  | NEMA Enclosure type |                   |                   |                   |
|-------------------------------------|-----------------|---------------------|-------------------|-------------------|-------------------|
|                                     |                 | 1                   | 3R                | 4                 | 4X Stainless      |
|                                     |                 | Catalog<br>number   | Catalog<br>number | Catalog<br>number | Catalog<br>number |
| 16                                  | 4 Pole          | ENF161-4PB6         | ENF163-4PB6       | ENF164-4PB6       | ENF16X-4PB6       |
|                                     | 6 Pole          | ENF161-6PB6         | ENF163-6PB6       | ENF164-6PB6       | ENF16X-6PB6       |
|                                     | Transfer        | ENF161-3TB8         | ENF163-3TB8       | ENF164-3TB8       | ENF16X-3TB8       |
|                                     | Bypass          | ENF161-3BB8         | ENF163-3BB8       | ENF164-3BB8       | ENF16X-3BB8       |
|                                     | Mech. interlock | ENF161-3MB6         | ENF163-3MB6       | ENF164-3MB6       | ENF16X-3MB6       |
| 25                                  | 4 Pole          | ENF251-4PB6         | ENF253-4PB6       | ENF254-4PB6       | ENF25X-4PB6       |
|                                     | 6 Pole          | ENF251-6PB6         | ENF253-6PB6       | ENF254-6PB6       | ENF25X-6PB6       |
|                                     | Transfer        | ENF251-3TB8         | ENF253-3TB8       | ENF254-3TB8       | ENF25X-3TB8       |
|                                     | Bypass          | ENF251-3BB8         | ENF253-3BB8       | ENF254-3BB8       | ENF25X-3BB8       |
|                                     | Mech. interlock | ENF251-3MB6         | ENF253-3MB6       | ENF254-3MB6       | ENF25X-3MB6       |
| 40                                  | 4 Pole          | ENF321-4PB6         | ENF323-4PB6       | ENF324-4PB6       | ENF32X-4PB6       |
|                                     | 6 Pole          | ENF321-6PB6         | ENF323-6PB6       | ENF324-6PB6       | ENF32X-6PB6       |
|                                     | Transfer        | ENF321-3TB8         | ENF323-3TB8       | ENF324-3TB8       | ENF32X-3TB8       |
|                                     | Bypass          | ENF321-3BB8         | ENF323-3BB8       | ENF324-3BB8       | ENF32X-3BB8       |
|                                     | Mech. interlock | ENF321-3MB6         | ENF323-3MB6       | ENF324-3MB6       | ENF32X-3MB6       |
| 60                                  | 4 Pole          | ENF451-4PB6         | ENF453-4PB6       | ENF454-4PB6       | ENF45X-4PB6       |
|                                     | 6 Pole          | ENF451-6PB6         | ENF453-6PB6       | ENF454-6PB6       | ENF45X-6PB6       |
|                                     | Transfer        | ENF451-3TB8         | ENF453-3TB8       | ENF454-3TB8       | ENF45X-3TB8       |
|                                     | Bypass          | ENF451-3BB8         | ENF453-3BB8       | ENF454-3BB8       | ENF45X-3BB8       |
|                                     | Mech. interlock | ENF451-3MB6         | ENF453-3MB6       | ENF454-3MB6       | ENF45X-3MB6       |
| 80                                  | 4 Pole          | ENF631-4PB6         | ENF633-4PB6       | ENF634-4PB6       | ENF63X-4PB6       |
|                                     | 6 Pole          | ENF631-6PB6         | ENF633-6PB6       | ENF634-6PB6       | ENF63X-6PB6       |
|                                     | Transfer        | ENF631-3TB8         | ENF633-3TB8       | ENF634-3TB8       | ENF63X-3TB8       |
|                                     | Bypass          | ENF631-3BB8         | ENF633-3BB8       | ENF634-3BB8       | ENF63X-3BB8       |
|                                     | Mech. interlock | ENF631-3MB6         | ENF633-3MB6       | ENF634-3MB6       | ENF63X-3MB6       |
| 30                                  | 4 Pole          | ENF301-4PB6         | ENF303-4PB6       | ENF304-4PB6       | ENF30X-4PB6       |
|                                     | 6 Pole          | ENF301-6PB6         | ENF303-6PB6       | ENF304-6PB6       | ENF30X-6PB6       |
|                                     | Transfer        | ENF301-3TB8         | ENF303-3TB8       | ENF304-3TB8       | ENF30X-3TB8       |
|                                     | Bypass          | ENF301-3BB8         | ENF303-3BB8       | ENF304-3BB8       | ENF30X-3BB8       |
|                                     | Mech. interlock | ENF301-3MB6         | ENF303-3MB6       | ENF304-3MB6       | ENF30X-3MB6       |
| 60                                  | 4 Pole          | ENF601-4PB6         | ENF603-4PB6       | ENF604-4PB6       | ENF60X-4PB6       |
|                                     | 6 Pole          | ENF601-6PB6         | ENF603-6PB6       | ENF604-6PB6       | ENF60X-6PB6       |
|                                     | Transfer        | ENF601-3TB8         | ENF603-3TB8       | ENF604-3TB8       | ENF60X-3TB8       |
|                                     | Bypass          | ENF601-3BB8         | ENF603-3BB8       | ENF604-3BB8       | ENF60X-3BB8       |
|                                     | Mech. interlock | ENF601-3MB6         | ENF603-3MB6       | ENF604-3MB6       | ENF60X-3MB6       |
| 100                                 | 4 Pole          | ENF1001-4PB6        | ENF1003-4PB6      | ENF1004-4PB6      | ENF100X-4PB6      |
|                                     | 6 Pole          | ENF1001-6PB6        | ENF1003-6PB6      | ENF1004-6PB6      | ENF100X-6PB6      |
|                                     | Transfer        | ENF1001-3TB8        | ENF1003-3TB8      | ENF1004-3TB8      | ENF100X-3TB8      |
|                                     | Bypass          | ENF1001-3BB8        | ENF1003-3BB8      | ENF1004-3BB8      | ENF100X-3BB8      |
|                                     | Mech. interlock | ENF1001-3MB6        | ENF1003-3MB6      | ENF1004-3MB6      | ENF100X-3MB6      |
| 125                                 | 2 Pole          | ENF1251-2PB6        | ENF1253-2PB6      | ENF1254-2PB6      | ENF125X-2PB6      |
|                                     | 4 Pole          | ENF1251-4PB6        | ENF1253-4PB6      | ENF1254-4PB6      | ENF125X-4PB6      |
|                                     | 6 Pole          | ENF1251-6PB2        | ENF1253-6PB2      | ENF1254-6PB4      | ENF125X-6PB4      |
|                                     | Transfer        | ENF1251-3TB8        | ENF1253-3TB8      | ENF1254-3TB8      | ENF125X-3TB8      |
|                                     | Bypass          | —                   | —                 | —                 | —                 |
| 200                                 | Mech. interlock | ENF1251-3MB6        | ENF1253-3MB6      | ENF1254-3MB8      | ENF125X-3MB8      |
|                                     | 4 Pole          | ENF2001-4PB8B       | ENF2003-4PB8B     | ENF2004-4PB8B     | ENF200X-4PB8B     |
|                                     | 6 Pole          | ENF2001-6PB4B       | ENF2003-6PB4B     | ENF2004-6PB4B     | ENF200X-6PB4B     |
|                                     | Transfer        | ENF2001-3TB4B       | ENF2003-3TB4B     | ENF2004-3TB4B     | ENF200X-3TB4B     |
|                                     | Bypass          | —                   | —                 | —                 | —                 |
| 400                                 | Mech. interlock | ENF2001-3MB8B       | ENF2003-3MB8B     | ENF2004-3MB8B     | ENF200X-3MB8B     |
|                                     | 4 Pole          | ENF4001-4PB4B       | ENF4003-4PB4B     | ENF4004-4PB4B     | ENF400X-4PB4B     |
|                                     | 6 Pole          | ENF4001-6PB8B       | ENF4003-6PB8B     | ENF4004-6PB8B     | ENF400X-6PB8B     |
|                                     | Transfer        | ENF4001-3TB4B       | ENF4003-3TB4B     | ENF4004-3TB4B     | ENF400X-3TB4B     |
|                                     | Bypass          | ENF4001-3PB6B       | ENF4003-3PB6B     | ENF4004-3PB6B     | ENF400X-3PB6B     |
|                                     | Mech. interlock | ENF4001-3MB4B       | ENF4003-3MB4B     | ENF4004-3MB4B     | ENF400X-3MB4B     |

Fusible

Non-Fused

Enclosed Fused

Enclosed Non-Fused

**Enclosed Non-Fusible Disconnect Switches****Other Configurations**

|                           | UL<br>General purpose<br>amp rating | Type of switch  | NEMA Enclosure type |                   | IEC Enclosure type |
|---------------------------|-------------------------------------|-----------------|---------------------|-------------------|--------------------|
|                           |                                     |                 | 4X Plastic          | 12                | IP65               |
|                           |                                     |                 | Catalog<br>number   | Catalog<br>number | Catalog<br>number  |
| <b>Fusible</b>            | 16                                  | 4 pole          | ENF16P-4PB6         | ENF162-4PB6       | ENF16E-4PBJ        |
|                           |                                     | 6 pole          | ENF16P-6PB6         | ENF162-6PB6       | ENF16E-6PBJ        |
|                           |                                     | Transfer        | ENF16P-3TB8         | ENF162-3TB8       | —                  |
|                           | 25                                  | Bypass          | ENF16P-3BB8         | ENF162-3BB8       | —                  |
|                           |                                     | Mech. interlock | ENF16P-3MB6         | ENF162-3MB6       | —                  |
|                           |                                     |                 |                     |                   |                    |
|                           | 40                                  | 4 Pole          | ENF32P-4PB6         | ENF322-4PB6       | ENF32E-4PBJ        |
|                           |                                     | 6 Pole          | ENF32P-6PB6         | ENF322-6PB6       | ENF32E-6PBJ        |
|                           |                                     | Transfer        | ENF32P-3TB8         | ENF322-3TB8       | —                  |
|                           | 60                                  | Bypass          | ENF32P-3BB8         | ENF323-3BB8       | —                  |
|                           |                                     | Mech. interlock | ENF32P-3MB6         | ENF322-3MB6       | —                  |
|                           |                                     |                 |                     |                   |                    |
| <b>Non-Fused</b>          | 80                                  | 4 Pole          | ENF45P-4PB6         | ENF452-4PB6       | ENF45E-4PBJ        |
|                           |                                     | 6 Pole          | ENF45P-6PB6         | ENF452-6PB6       | ENF45E-6PBJ        |
|                           |                                     | Transfer        | ENF45P-3TB8         | ENF452-3TB8       | —                  |
|                           | 30                                  | Bypass          | ENF45P-3BB8         | ENF452-3BB8       | —                  |
|                           |                                     | Mech. interlock | ENF45P-3MB6         | ENF452-3MB6       | —                  |
|                           |                                     |                 |                     |                   |                    |
|                           | 60                                  | 4 Pole          | ENF60P-4PB6         | ENF602-4PB6       | ENF60E-4PB4        |
|                           |                                     | 6 Pole          | ENF60P-6PB6         | ENF602-6PB6       | ENF60E-6PB6        |
|                           |                                     | Transfer        | ENF60P-3TB8         | ENF602-3TB8       | —                  |
| <b>Enclosed Fused</b>     | 100                                 | Bypass          | ENF60P-3BB8         | ENF602-3BB8       | —                  |
|                           |                                     | Mech. interlock | ENF60P-3MB6         | ENF602-3MB6       | —                  |
|                           |                                     |                 |                     |                   |                    |
|                           | 125                                 | 2 Pole          | ENF125P-2PB6        | ENF1252-2PB6      | —                  |
|                           |                                     | 4 Pole          | ENF125P-4PB6        | ENF1252-4PB6      | —                  |
|                           |                                     | 6 Pole          | ENF125P-6PB2        | ENF1252-6PB2      | —                  |
|                           | 200                                 | Transfer        | ENF125P-3TB8        | ENF1252-3TB8      | —                  |
|                           |                                     | Bypass          | —                   | —                 | —                  |
|                           |                                     | Mech. interlock | ENF125P-3MB6        | ENF1252-3MB6      | —                  |
| <b>Enclosed Non-Fused</b> | 400                                 | 4 Pole          | ENF200P-4PB8B       | ENF2002-4PB8B     | —                  |
|                           |                                     | 6 Pole          | ENF200P-6PB4B       | ENF2002-6PB4B     | —                  |
|                           |                                     | Transfer        | ENF200P-3TB4B       | ENF2002-3TB4B     | —                  |
|                           |                                     | Bypass          | —                   | —                 | —                  |
|                           |                                     | Mech. interlock | ENF200P-3MB8B       | ENF2002-3MB8B     | —                  |
|                           |                                     |                 |                     |                   |                    |
|                           |                                     | 4 Pole          | ENF400P-4PB4B       | ENF4002-4PB4B     | —                  |
|                           |                                     | 6 Pole          | ENF400P-6PB8B       | ENF4002-6PB8B     | —                  |
|                           |                                     | Transfer        | ENF400P-3TB4B       | ENF4002-3TB4B     | —                  |
|                           |                                     | Bypass          | ENF400P-3BB6B       | ENF4002-3BB6B     | —                  |
|                           |                                     | Mech. interlock | ENF400P-3MB4B       | ENF4002-3MB4B     | —                  |
|                           |                                     |                 |                     |                   |                    |

**Other Configurations**

| UL<br>General purpose<br>amp rating | Type of switch  | NEMA Enclosure type |                   |                   |                   |
|-------------------------------------|-----------------|---------------------|-------------------|-------------------|-------------------|
|                                     |                 | 1                   | 3R                | 4                 | 4X Stainless      |
|                                     |                 | Catalog<br>number   | Catalog<br>number | Catalog<br>number | Catalog<br>number |
| 600                                 | 2 Pole          | ENF6001-2PB4        | ENF6003-2PB4      | ENF6004-2PB4      | ENF600X-2PB4      |
|                                     | 4 Pole          | ENF6001-4PB4        | ENF6003-4PB4      | ENF6004-4PB4      | ENF600X-4PB4      |
|                                     | 6 Pole          | ENF6001-6P8         | ENF6003-6P8       | ENF6004-6P8       | ENF600X-6P8       |
|                                     | Transfer        | ENF6001-3TB4        | ENF6003-3TB4      | ENF6004-3TB4      | ENF600X-3TB4      |
|                                     | Bypass          | ENF6001-3B6         | ENF6003-3B6       | ENF6004-3B6       | ENF600X-3B6       |
|                                     | Mech. interlock | ENF6001-3MB4        | ENF6003-3MB4      | ENF6004-3MB4      | ENF600X-3MB4      |
| 800                                 | 2 Pole          | ENF8001-2PB4        | ENF8003-2PB4      | ENF8004-2PB4      | ENF800X-2PB4      |
|                                     | 4 Pole          | ENF8001-4PB4        | ENF8003-4PB4      | ENF8004-4PB4      | ENF800X-4PB4      |
|                                     | 6 Pole          | ENF8001-6P8         | ENF8003-6P8       | ENF8004-6P8       | ENF800X-6P8       |
|                                     | Transfer        | ENF8001-3TB4        | ENF8003-3TB4      | ENF8004-3TB4      | ENF800X-3TB4      |
|                                     | Bypass          | ENF8001-3B6         | ENF8003-3B6       | ENF8004-3B6       | ENF800X-3B6       |
|                                     | Mech. interlock | ENF8001-3MB4        | ENF8003-3MB4      | ENF8004-3MB4      | ENF800X-3MB4      |
| 1200                                | 2 Pole          | ENF12001-2PB4       | ENF12003-2PB4     | ENF12004-2PB4     | ENF1200X-2PB4     |
|                                     | 4 Pole          | ENF12001-4PB4       | ENF12003-4PB4     | ENF12004-4PB4     | ENF1200X-4PB4     |
|                                     | 6 Pole          | ENF12001-6P8        | ENF12003-6P8      | ENF12004-6P8      | ENF1200X-6P8      |
|                                     | Transfer        | ENF12001-3TB4       | ENF12003-3TB4     | ENF12004-3TB4     | ENF1200X-3TB4     |
|                                     | Bypass          | ENF12001-3B6        | ENF12003-3B6      | ENF12004-3B6      | ENF1200X-3B6      |
|                                     | Mech. interlock | ENF12001-3MB4       | ENF12003-3MB4     | ENF12004-3MB4     | ENF1200X-3MB4     |
| 1600                                | 2 Pole          | ENF16001-2P8        | ENF16003-2P8      | ENF16004-2P8      | ENF1600X-2P8      |
|                                     | 4 Pole          | ENF16001-4P8        | ENF16003-4P8      | ENF16004-4P8      | ENF1600X-4P8      |
|                                     | 6 Pole          | —                   | —                 | —                 | —                 |
|                                     | Transfer        | —                   | —                 | —                 | —                 |
|                                     | Bypass          | —                   | —                 | —                 | —                 |
|                                     | Mech. interlock | —                   | —                 | —                 | —                 |
| 2000                                | 2 Pole          | ENF20001-2P8        | ENF20003-2P8      | ENF20004-2P8      | ENF2000X-2P8      |
|                                     | 4 Pole          | ENF20001-4P8        | ENF20003-4P8      | ENF20004-4P8      | ENF2000X-4P8      |
|                                     | 6 Pole          | —                   | —                 | —                 | —                 |
|                                     | Transfer        | —                   | —                 | —                 | —                 |
|                                     | Bypass          | —                   | —                 | —                 | —                 |
|                                     | Mech. interlock | —                   | —                 | —                 | —                 |
| 3150                                | 2 Pole          | ENF31501-2P8        | ENF31503-2P8      | ENF31504-2P8      | ENF3150X-2P8      |
|                                     | 4 Pole          | ENF31501-4P8        | ENF31503-4P8      | ENF31504-4P8      | ENF3150X-4P8      |
|                                     | 6 Pole          | —                   | —                 | —                 | —                 |
|                                     | Transfer        | —                   | —                 | —                 | —                 |
|                                     | Bypass          | —                   | —                 | —                 | —                 |
|                                     | Mech. interlock | —                   | —                 | —                 | —                 |

Fusible

Non-Fused

Enclosed Fused

Enclosed Non-Fused

**Enclosed Non-Fusible Disconnect Switches****Other Configurations**

|                           | UL<br>General purpose<br>amp rating | Type of switch      | NEMA Enclosure type |                   |                   |
|---------------------------|-------------------------------------|---------------------|---------------------|-------------------|-------------------|
|                           |                                     |                     | 4X Plastic          | 12                | 7 & 9             |
|                           |                                     |                     | Catalog<br>number   | Catalog<br>number | Catalog<br>number |
| <b>Fusible</b>            | 600                                 | 2 Pole              | ENF600P-2PB4        | ENF6002-2PB4      | ENF6007-2P        |
|                           |                                     | 4 Pole              | ENF600P-4PB4        | ENF6002-4PB4      | ENF6007-4P        |
|                           |                                     | 6 Pole              | ENF600P-6P8         | ENF6002-6P8       | ENF6007-6P        |
|                           |                                     | Transfer            | ENF600P-3TB4        | ENF6002-3TB4      | ENF6007-3T        |
|                           |                                     | Bypass              | ENF600P-3B6         | ENF6002-3B6       | ENF6007-3B        |
|                           |                                     | Mech. interlock     | ENF600P-3MB4        | ENF6002-3MB4      | —                 |
|                           |                                     |                     |                     |                   |                   |
| <b>Non-Fused</b>          | 800                                 | 2 pole              | ENF800P-2PB4        | ENF8002-2PB4      | ENF8007-2P        |
|                           |                                     | 4 pole <sup>①</sup> | ENF800P-4PB4        | ENF8002-4PB4      | ENF8007-4P        |
|                           |                                     | 6 pole              | ENF800P-6P8         | ENF8002-6PB4      | ENF8007-6P        |
|                           |                                     | Transfer            | ENF800P-3TB4        | ENF8002-3TB4      | ENF8007-3T        |
|                           |                                     | Bypass              | ENF800P-3B6         | ENF8002-3B6       | ENF8007-3B        |
|                           |                                     | Mech. interlock     | ENF800P-3MB4        | ENF8002-3MB4      | —                 |
|                           |                                     |                     |                     |                   |                   |
| <b>Enclosed Fused</b>     | 1200                                | 2 Pole              | ENF1200P-2PB4       | ENF12002-2PB4     | ENF12007-2P       |
|                           |                                     | 4 Pole <sup>①</sup> | ENF1200P-4PB4       | ENF12002-4PB4     | ENF12007-4P       |
|                           |                                     | 6 Pole              | ENF1200P-6P8        | ENF12003-6PB4     | ENF12007-6P       |
|                           |                                     | Transfer            | ENF1200P-3TB4       | ENF12002-3TB4     | ENF12007-3T       |
|                           |                                     | Bypass              | ENF1200P-3B6        | ENF12002-3B6      | ENF12007-3B       |
|                           |                                     | Mech. interlock     | ENF1200P-3MB4       | ENF12002-3MB4     | —                 |
|                           |                                     |                     |                     |                   |                   |
| <b>Enclosed Non-Fused</b> | 1600                                | 2 Pole              | ENF1600P-2P8        | ENF16002-2P8      | —                 |
|                           |                                     | 4 Pole <sup>①</sup> | ENF1600P-4P8        | ENF16002-4P8      | ②                 |
|                           |                                     | 6 Pole              | —                   | —                 | —                 |
|                           |                                     | Transfer            | —                   | —                 | —                 |
|                           |                                     | Bypass              | —                   | —                 | —                 |
|                           |                                     | Mech. interlock     | —                   | —                 | —                 |
|                           |                                     |                     |                     |                   |                   |
|                           | 2000                                | 2 Pole              | ENF2000P-2P8        | ENF20002-2P8      | —                 |
|                           |                                     | 4 Pole <sup>①</sup> | ENF2000P-4P8        | ENF20002-4P8      | ②                 |
|                           |                                     | 6 Pole              | —                   | —                 | —                 |
|                           |                                     | Transfer            | —                   | —                 | —                 |
|                           |                                     | Bypass              | —                   | —                 | —                 |
|                           |                                     | Mech. interlock     | —                   | —                 | —                 |
|                           |                                     |                     |                     |                   |                   |
|                           | 3150 <sup>①</sup>                   | 2 Pole <sup>①</sup> | ENF3150P-2P8        | ENF31502-2P8      | —                 |
|                           |                                     | 4 Pole <sup>①</sup> | ENF3150P-4P8        | ENF31502-4P8      | ②                 |
|                           |                                     | 6 Pole              | —                   | —                 | —                 |
|                           |                                     | Transfer            | —                   | —                 | —                 |
|                           |                                     | Bypass              | —                   | —                 | —                 |
|                           |                                     | Mech. interlock     | —                   | —                 | —                 |
|                           |                                     |                     |                     |                   |                   |

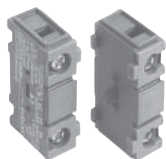
① IEC rated only.

② Consult factory for price and availability.

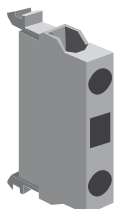
# Accessories for Enclosed Non-Fusible Disconnect Switches



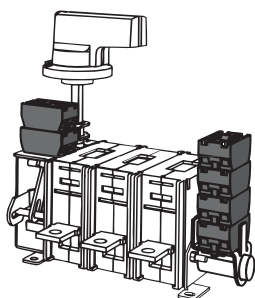
## Other Configurations



CDAUX\_ \_



CDAUXCA\_ \_



BDAUX\_ \_



3 Position selector switch



Pilot light

## Auxiliary contacts

| For use on: | Contact configuration              | Catalog number         | Installation suffix                |
|-------------|------------------------------------|------------------------|------------------------------------|
| 16A – 100A  | 1 N.O.<br>1 N.C.                   | CDAUX10<br>CDAUX01     | add "10" suffix<br>add "01" suffix |
| 125A        | 1 N.O.<br>1 N.C.                   | CDAUXCA10<br>CDAUXCA01 | add "10" suffix<br>add "01" suffix |
| 200A-400A   | 1 N.O.<br>1 N.C.                   | CDAUX10<br>CDAUX01K    | add "10" suffix<br>add "01" suffix |
| 600A –800A  | 1 N.O. & 1 N.C.<br>2 N.O. & 2 N.C. | BDAUX1<br>BDAUX2       | add "11" suffix<br>add "22" suffix |

## Accessories

| For use on:   | Contact configuration            |  | Installation suffix |
|---------------|----------------------------------|--|---------------------|
| 16, 25, 40A   | Neutral or isolated ground block |  | N or G              |
| 40A – 60A     | Neutral or isolated ground block |  | N or G              |
| 80A – 100A    | Neutral or isolated ground block |  | N or G              |
| 125A          | Neutral or isolated ground block |  | N or G              |
| 200A – 1200A  | Neutral block                    |  | N                   |
| 1600A – 3150A | Neutral block                    |  | N                   |
| 16A – 30A     | Switched neutral block           |  | S                   |
| 40A – 60A     | Switched neutral block           |  | S                   |
| 80A – 100A    | Switched neutral block           |  | S                   |
| 125A          | Switched neutral block           |  | S                   |
| 80A – 1200A   | Service entrance, 3 wire         |  | U                   |
| 80A – 1200A   | Service entrance, 4 wire         |  | V                   |
| 16A – 3150A   | Start/stop pushbuttons           |  | A                   |
|               | 2 position selector switch       |  | C                   |
|               | 3 position selector switch       |  | D                   |
|               | Pilot light "red/run"            |  | E                   |
|               | Ammeter 1 phase                  |  | AM                  |
|               | Voltmeter                        |  | VM                  |

## Ground lugs

All enclosed switches are provided with a standard integral ground lug.

| Switch size   | Ground lug Wire size |
|---------------|----------------------|
| 16A – 100A    | (2) #14              |
| 200A – 400A   | #6 – 250 mcm         |
| 600A – 1200A  | #2 – 600 mcm         |
| 2000A – 3150A | (2) #2 – 600 mcm     |

Fusible

Non-Fused

Enclosed Fused

Enclosed Non-Fused

**Switch ratings, 16 – 3150 Amps, 600V**

| UL<br>General<br>purpose<br>amp rating | Maximum horsepower rating |      |      |             |      |      |      | Wire size for terminal lugs | For wire type      | Approval |                        |
|----------------------------------------|---------------------------|------|------|-------------|------|------|------|-----------------------------|--------------------|----------|------------------------|
|                                        | Single phase              |      |      | Three phase |      |      |      |                             |                    |          |                        |
|                                        | 120V                      | 200V | 240V | 200V – 208V | 240V | 480V | 600V |                             |                    |          |                        |
| UL 508<br>↑                            | 16                        | 1/2  | 1.5  | 1.5         | 3    | 5    | 10   | 10                          | #18 – 8            | Cu       | cULus, UL <sup>①</sup> |
|                                        | 25                        | 3/4  | 2    | 2           | 7.5  | 7.5  | 15   | 20                          | #18 – 8            | Cu       | cULus, UL <sup>①</sup> |
|                                        | 40                        | 1    | 3    | 3           | 10   | 10   | 20   | 25                          | #18 – 8            | Cu       | cULus, UL <sup>①</sup> |
|                                        | 60                        | 2    | 5    | 5           | 15   | 15   | 30   | 30                          | #14 – 1            | Cu       | cULus, UL <sup>①</sup> |
| UL 98<br>↑                             | 80                        | 2    | 5    | 5           | 20   | 20   | 40   | 50                          | #14 – 1            | Cu       | cULus, UL <sup>①</sup> |
|                                        | 30                        | 2    | 5    | 5           | 10   | 10   | 20   | 30                          | #14 – 4            | Cu       | cULus, UL <sup>②</sup> |
|                                        | 60                        | 3    | 7.5  | 7.5         | 20   | 20   | 40   | 40                          | #14 – 4            | Cu       | cULus, UL <sup>②</sup> |
|                                        | 100                       | 5    | 15   | 15          | 25   | 25   | 50   | 40                          | #8 – 1/0           | Cu       | cULus, UL <sup>②</sup> |
|                                        | 125                       | 7.5  | 20   | 20          | 30   | 30   | 60   | 75                          | #8 – 1/0           | Cu       | cULus, UL <sup>②</sup> |
|                                        | 200                       | —    | —    | —           | 60   | 75   | 150  | 200                         | #6 – 300 kcmil     | Cu       | cULus, UL <sup>②</sup> |
|                                        | 400                       | —    | —    | —           | 100  | 125  | 250  | 350                         | #2 – 600 kcmil     | Cu       | cULus, UL <sup>②</sup> |
|                                        | 600                       | —    | —    | —           | 150  | 200  | 400  | 500                         | (2) #2 – 600 kcmil | Cu       | cULus, UL <sup>②</sup> |
|                                        | 800                       | —    | —    | —           | 200  | 250  | 500  | 600                         | (2) #2 – 600 kcmil | Cu/Al    | cULus, UL <sup>②</sup> |
|                                        | 1200                      | —    | —    | —           | —    | —    | —    | —                           | (4) #2 – 600 kcmil | Cu/Al    | cULus, UL <sup>②</sup> |
|                                        | 1600                      | —    | —    | —           | —    | —    | —    | —                           | (4) #2 – 600 kcmil | Cu/Al    | cULus, UL <sup>②</sup> |
|                                        | 2000                      | —    | —    | —           | —    | —    | —    | —                           | (8) #2 – 600 kcmil | Cu/Al    | cULus, UL <sup>②</sup> |
| 3150 <sup>③</sup>                      | —                         | —    | —    | —           | —    | —    | —    | (8) #2 – 600 kcmil          | Cu/Al              | IEC      |                        |

**Handle ratings, 16 – 3150 Amps, 600V**

| Amperage range | Style type | NEMA         | Color   | Marking      | Defeatable | Padlockable | Catalog number suffix | Catalog number |
|----------------|------------|--------------|---------|--------------|------------|-------------|-----------------------|----------------|
| 16 – 100       | Selector   | 1,3R,12      | Black   | 0/I & OFF/ON | Yes        | Yes         | BJ                    | CDH5S          |
|                | Selector   | 1,3R,12      | Red/Yel | 0/I & OFF/ON | Yes        | Yes         | YJ                    | CDH6S          |
|                | Pistol     | 1,3R,12      | Black   | 0/I & OFF/ON | Yes        | Yes         | B6                    | BDH106         |
|                | Pistol     | 1,3R,12      | Red/Yel | 0/I & OFF/ON | Yes        | Yes         | Y6                    | BDH107         |
|                | Pistol     | 1,3R,4,4X,12 | Black   | 0/I & OFF/ON | Yes        | Yes         | B6                    | CDHXB65        |
|                | Pistol     | 1,3R,4,4X,12 | Red/Yel | 0/I & OFF/ON | Yes        | Yes         | Y6                    | CDHXY65        |
| 125            | Pistol     | 1,3R,12      | Black   | 0/I & OFF/ON | Yes        | Yes         | B6                    | BDH120         |
|                | Pistol     | 1,3R,12      | Red/Yel | 0/I & OFF/ON | Yes        | Yes         | Y6                    | BDH121         |
|                | Pistol     | 1,3R,4,4X,12 | Black   | 0/I & OFF/ON | Yes        | Yes         | B8                    | CDHXB86        |
|                | Pistol     | 1,3R,4,4X,12 | Red/Yel | 0/I & OFF/ON | Yes        | Yes         | Y8                    | CDHXY86        |
| 200            | Pistol     | 1,3R,12      | Black   | 0/I & OFF/ON | Yes        | Yes         | B8                    | BDH60          |
|                | Pistol     | 1,3R,12      | Red/Yel | 0/I & OFF/ON | Yes        | Yes         | Y8                    | BDH61          |
|                | Pistol     | 1,3R,4,4X,12 | Black   | 0/I & OFF/ON | Yes        | Yes         | B8                    | CDHXB86        |
|                | Pistol     | 1,3R,4,4X,12 | Red/Yel | 0/I & OFF/ON | Yes        | Yes         | Y8                    | CDHXY86        |
| 400 – 3150     | Pistol     | 1,3R,12      | Black   | 0/I & OFF/ON | Yes        | Yes         | B4                    | BDH114         |
|                | Pistol     | 1,3R,12      | Red/Yel | 0/I & OFF/ON | Yes        | Yes         | Y4                    | BDH115         |
|                | Pistol     | 1,3R,12      | Black   | 0/I & OFF/ON | Yes        | Yes         | B7                    | BDH116         |
|                | Pistol     | 1,3R,12      | Red/Yel | 0/I & OFF/ON | Yes        | Yes         | Y7                    | BDH117         |
|                | Pistol     | 1,3R,4,4X,12 | Black   | 0/I & OFF/ON | Yes        | Yes         | B4                    | CDHXB12        |
|                | Pistol     | 1,3R,4,4X,12 | Red/Yel | 0/I & OFF/ON | Yes        | Yes         | Y4                    | CDHXY12        |
|                | Pistol     | 1,3R,4,4X,12 | Black   | 0/I & OFF/ON | Yes        | Yes         | B7                    | CDHXB22        |
|                | Pistol     | 1,3R,4,4X,12 | Red/Yel | 0/I & OFF/ON | Yes        | Yes         | Y7                    | CDHXY22        |
|                | Pistol     | 1,3R,4,4X,12 | Metal   | 0/I & OFF/ON | No         | Yes         | 8                     | BDH8           |

① UL Listed (UL508).

② UL Listed (UL98).

③ IEC rated only.

# Approximate Dimensions for Enclosed Non-Fusible Disconnect Switches



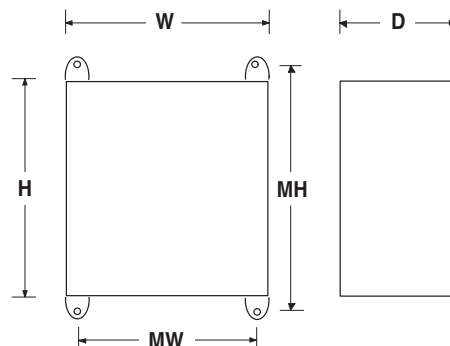
## 2, 3 & 4<sup>3</sup>Pole Non-fusible switches

| Frame Size                           | Enclosure type | H Height | W Width | D Depth | MH Mtg Height | MW Mtg Width | Weight |
|--------------------------------------|----------------|----------|---------|---------|---------------|--------------|--------|
| CDNF16<br>CDNF25<br>CDNF32           | 1              | 7.0      | 5.0     | 3.0     | 4.0           | 4.0          | 4.0    |
|                                      | 3R             | 7.0      | 5.0     | 3.0     | 7.75          | 3.0          | 4.0    |
|                                      | 4              | 6.0      | 6.0     | 4.0     | 6.75          | 4.0          | 4.0    |
|                                      | 4X SS          | 7.0      | 5.0     | 3.0     | 7.75          | 3.0          | 4.0    |
|                                      | 4X Plastic     | 6.0      | 6.0     | 5.9     | 6.75          | 4.0          | 4.0    |
|                                      | 12             | 7.0      | 5.0     | 3.0     | 7.75          | 3.0          | 4.0    |
|                                      | IP65 (A)       | 4.8      | 3.4     | 2.4     | 4.17          | 2.80         | 1.0    |
|                                      | IP65 (B)       | 5.9      | 5.1     | 2.4     | 5.35          | 4.57         | 1.0    |
| CDNF45<br>CDNF63<br>CDNF30<br>CDNF60 | 1              | 8.0      | 6.0     | 4.0     | 7.0           | 5.0          | 6.0    |
|                                      | 3R             | 8.0      | 6.0     | 4.0     | 8.75          | 4.0          | 6.0    |
|                                      | 4              | 8.0      | 6.0     | 4.0     | 8.75          | 4.0          | 6.0    |
|                                      | 4X SS          | 8.0      | 6.0     | 4.0     | 8.75          | 4.0          | 6.0    |
|                                      | 4X Plastic     | 8.0      | 6.0     | 5.9     | 8.75          | 4.0          | 6.0    |
|                                      | 12             | 8.0      | 6.0     | 4.0     | 8.75          | 4.0          | 6.0    |
|                                      | IP65 (A)       | 7.9      | 5.7     | 3.6     | 7.24          | 5.16         | 4.0    |
|                                      | IP65 (B)       | 15.8     | 7.9     | 5.5     | 14.8          | 6.93         | 4.0    |
| CDNF100                              | 1              | 10.0     | 8.0     | 5.0     | 7.0           | 7.0          | 9.0    |
|                                      | 3R             | 10.0     | 8.0     | 5.0     | 10.75         | 6.0          | 9.0    |
|                                      | 4              | 10.0     | 8.0     | 4.0     | 10.75         | 6.0          | 9.0    |
|                                      | 4X SS          | 10.0     | 8.0     | 5.0     | 10.75         | 6.0          | 9.0    |
|                                      | 4X Plastic     | 10.0     | 8.0     | 5.9     | 10.75         | 6.0          | 9.0    |
|                                      | 12             | 10.0     | 8.0     | 5.0     | 10.75         | 6.0          | 9.0    |
|                                      | IP65 (A)       | 7.9      | 5.7     | 3.6     | 7.24          | 5.16         | 4.0    |
|                                      | IP65 (B)       | 15.8     | 7.9     | 5.5     | 14.8          | 6.93         | 4.0    |
| CDNF160                              | 1              | 14.0     | 12.0    | 8.0     | 11.0          | 9.0          | 20     |
|                                      | 3R             | 14.0     | 12.0    | 8.0     | 14.75         | 10.0         | 20     |
|                                      | 4              | 14.0     | 12.0    | 6.0     | 14.75         | 10.0         | 20     |
|                                      | 4X SS          | 14.0     | 12.0    | 8.0     | 14.75         | 10.0         | 20     |
|                                      | 4X Plastic     | 14.0     | 12.0    | 5.9     | 14.75         | 10.0         | 12     |
|                                      | 12             | 14.0     | 12.0    | 8.0     | 14.75         | 10.0         | 20     |
|                                      |                |          |         |         |               |              |        |
| CDNF200                              | 1              | 20.00    | 16.00   | 6.00    | 21.50         | 14.50        | 50.00  |
|                                      | 3R             | 20.00    | 16.00   | 6.00    | 21.50         | 14.50        | 50.00  |
|                                      | 4              | 20.00    | 16.00   | 6.00    | 21.50         | 14.50        | 50.00  |
|                                      | 4X SS          | 20.00    | 16.00   | 6.00    | 21.50         | 14.50        | 50.00  |
|                                      | 4X Plastic     | 24.00    | 16.00   | 10.00   | 25.50         | 14.50        | 40.00  |
|                                      | 12             | 20.00    | 16.00   | 6.00    | 21.50         | 14.50        | 50.00  |
|                                      |                |          |         |         |               |              |        |
| CDNF400<br>BDNF600                   | 1              | 36.00    | 24.00   | 8.000   | 37.50         | 22.50        | 120.00 |
|                                      | 3R             | 36.00    | 24.00   | 8.000   | 37.50         | 22.50        | 120.00 |
|                                      | 4              | 36.00    | 24.00   | 8.000   | 37.50         | 22.50        | 120.00 |
|                                      | 4X SS          | 36.00    | 24.00   | 8.000   | 37.50         | 22.50        | 130.00 |
|                                      | 4X Plastic     | 39.31    | 30.60   | 13.80   | 38.00         | 24.00        | 1.00   |
|                                      | 12             | 36.00    | 24.00   | 8.000   | 37.50         | 22.50        | 120.00 |
|                                      |                |          |         |         |               |              |        |
| BDNF800<br>BDNF1200                  | 1              | 60.00    | 36.00   | 12.00   | 61.50         | 34.50        | 200.00 |
|                                      | 3R             | 60.00    | 36.00   | 12.00   | 61.50         | 34.50        | 200.00 |
|                                      | 4              | 60.00    | 36.00   | 12.00   | 61.50         | 34.50        | 200.00 |
|                                      | 4X SS          | 60.00    | 36.00   | 12.00   | 61.50         | 34.50        | 200.00 |
|                                      | 12             | 60.00    | 36.00   | 12.00   | 61.50         | 34.50        | 200.00 |
|                                      |                |          |         |         |               |              |        |
|                                      |                |          |         |         |               |              |        |

## 6 Pole Non-fusible Enclosed switches

| Frame Size                       | Enclosure type | H Height | W Width | D Depth | MH Mtg Height | MW Mtg Width | Weight |
|----------------------------------|----------------|----------|---------|---------|---------------|--------------|--------|
| CDNF16<br>CDNF15<br>CDNF32       | 1              | 8.0      | 6.0     | 4.0     | 7.00          | 5.0          | 6.0    |
|                                  | 3R             | 8.0      | 6.0     | 4.0     | 8.75          | 4.0          | 6.0    |
|                                  | 4              | 8.0      | 6.0     | 4.0     | 8.75          | 4.0          | 6.0    |
|                                  | 4X SS          | 8.0      | 6.0     | 4.0     | 8.75          | 4.0          | 6.0    |
|                                  | 4X Plastic     | 6.0      | 6.0     | 5.9     | 8.75          | 4.0          | 6.0    |
|                                  | 12             | 8.0      | 6.0     | 4.0     | 8.75          | 4.0          | 6.0    |
|                                  | IP65 (A)       | 7.9      | 5.7     | 3.6     | 7.24          | 5.16         | 4.0    |
|                                  | IP65 (B)       | 15.8     | 7.9     | 5.5     | 14.8          | 6.93         | 4.0    |
| CDNF45<br>CDNF63                 | 1              | 10.0     | 8.0     | 5.0     | 7.0           | 7.0          | 6.0    |
|                                  | 3R             | 10.0     | 8.0     | 5.0     | 10.75         | 6.0          | 6.0    |
|                                  | 4              | 10.0     | 8.0     | 6.0     | 10.75         | 6.0          | 6.0    |
|                                  | 4X SS          | 10.0     | 8.0     | 5.0     | 10.75         | 6.0          | 6.0    |
|                                  | 4X Plastic     | 10.0     | 8.0     | 7.9     | 10.75         | 6.0          | 6.0    |
|                                  | 12             | 10.0     | 8.0     | 5.0     | 10.75         | 6.0          | 6.0    |
|                                  | IP65 (A)       | 7.9      | 5.7     | 4.0     | 7.18          | 5.1          | 1.5    |
|                                  | IP65 (B)       | —        | —       | —       | —             | —            | —      |
| CDNF30<br>CDNF60<br>CDNF100      | 1              | 10.0     | 8.0     | 5.0     | 7.0           | 7.0          | 9.0    |
|                                  | 3R             | 10.0     | 8.0     | 5.0     | 10.75         | 6.0          | 9.0    |
|                                  | 4              | 10.0     | 8.0     | 6.0     | 10.75         | 6.0          | 9.0    |
|                                  | 4X SS          | 10.0     | 8.0     | 5.0     | 10.75         | 6.0          | 9.0    |
|                                  | 4X Plastic     | 10.0     | 8.0     | 7.9     | 00.00         | 0.0          | 9.0    |
|                                  | 12             | 10.0     | 8.0     | 5.0     | 0.0           | 6.0          | 9.0    |
|                                  | IP65 (A)       | —        | —       | —       | —             | —            | —      |
|                                  | IP65 (B)       | —        | —       | —       | —             | —            | —      |
| CDNF160                          | 1              | 16.0     | 6.0     | 6.0     | 17.50         | 14.5         | 20     |
|                                  | 3R             | 16.0     | 6.0     | 6.0     | 17.50         | 14.5         | 20     |
|                                  | 4              | 16.0     | 6.0     | 6.0     | 17.50         | 14.5         | 20     |
|                                  | 4X SS          | 16.0     | 6.0     | 6.0     | 17.50         | 14.5         | 20     |
|                                  | 4X Plastic     | 16.0     | 14.0    | 8.0     | 16.75         | 12.0         | 20     |
|                                  | 12             | 16.0     | 6.0     | 6.0     | 17.50         | 14.5         | 20     |
|                                  |                |          |         |         |               |              |        |
| CDNF200                          | 1              | 20.0     | 20.0    | 8.0     | 21.50         | 18.5         | 60     |
|                                  | 3R             | 20.0     | 20.0    | 8.0     | 21.50         | 18.5         | 60     |
|                                  | 4              | 20.0     | 20.0    | 8.0     | 21.50         | 18.5         | 60     |
|                                  | 4X SS          | 20.0     | 20.0    | 8.0     | 21.50         | 18.5         | 60     |
|                                  | 4X Plastic     | 24.0     | 20.0    | 10.0    | 25.50         | 18.0         | 60     |
|                                  | 12             | 20.0     | 20.0    | 8.0     | 21.50         | 18.5         | 60     |
|                                  |                |          |         |         |               |              |        |
| CDNF400<br>BDNF600               | 1              | 36.00    | 30.00   | 8.0     | 37.50         | 28.50        | 160.00 |
|                                  | 3R             | 36.00    | 30.00   | 8.0     | 37.50         | 28.50        | 160.00 |
|                                  | 4              | 36.00    | 30.00   | 8.0     | 37.50         | 28.50        | 160.00 |
|                                  | 4X SS          | 36.00    | 30.00   | 8.0     | 37.50         | 28.50        | 160.00 |
|                                  | 4X Plastic     | ⓪        | ⓪       | ⓪       | ⓪             | ⓪            | ⓪      |
|                                  | 12             | 36.00    | 30.00   | 8.0     | 37.50         | 28.50        | 160.00 |
|                                  |                |          |         |         |               |              |        |
| BDNF800<br>BDNF1200              | 1              | 60.00    | 36.00   | 12.00   | 61.50         | 34.50        | 240.00 |
|                                  | 3R             | 60.00    | 36.00   | 12.00   | 61.50         | 34.50        | 240.00 |
|                                  | 4              | 60.00    | 36.00   | 12.00   | 61.50         | 34.50        | 240.00 |
|                                  | 4X SS          | 60.00    | 36.00   | 12.00   | 61.50         | 34.50        | 240.00 |
|                                  | 4X Plastic     | ⓪        | ⓪       | ⓪       | ⓪             | ⓪            | ⓪      |
|                                  | 12             | 60.00    | 36.00   | 12.00   | 61.50         | 34.50        | 240.00 |
|                                  |                |          |         |         |               |              |        |
| BDNF1600<br>BDNF2000<br>BDNF3150 | 1              | 90.00    | 36.00   | 24.00   | 2.000         | 34.50        | 600.00 |
|                                  | 3R             | 90.00    | 36.00   | 24.00   | 2.000         | 34.50        | 600.00 |
|                                  | 4              | ⓪        | ⓪       | ⓪       | ⓪             | ⓪            | ⓪      |
|                                  | 4X SS          | ⓪        | ⓪       | ⓪       | ⓪             | ⓪            | ⓪      |
|                                  | 4X Plastic     | ⓪        | ⓪       | ⓪       | ⓪             | ⓪            | ⓪      |
|                                  | 12             | 90.00    | 36.00   | 24.00   | ⓪             | ⓪            | 600.00 |
|                                  |                |          |         |         |               |              |        |

- 1 Please consult factory.  
2 Enclosure is free standing.  
3 Some 4-pole switches require larger enclosures. Please consult factory.



Fusible

Non-Fused

Enclosed Fused

Enclosed Non-Fused

**Mechanical Interlock for Non-Fusible Enclosed**

| Frame Size                                            | Enclosure type | H<br>Height | W<br>Width | D<br>Depth | MH<br>Mtg Height | MW<br>Mtg Width | Weight |
|-------------------------------------------------------|----------------|-------------|------------|------------|------------------|-----------------|--------|
| <b>CDNF16</b><br><b>CDNF15</b><br><b>CDNF32</b>       | 1              | 10.0        | 8.0        | 6.0        | 10.8             | 6.0             | 4.0    |
|                                                       | 3R             | 10.0        | 8.0        | 6.0        | 10.8             | 6.0             | 4.0    |
|                                                       | 4              | 10.0        | 8.0        | 6.0        | 10.8             | 6.0             | 4.0    |
|                                                       | 4X SS          | 10.0        | 8.0        | 6.0        | 10.8             | 6.0             | 4.0    |
|                                                       | 4X Plastic     | 10.0        | 8.0        | 6.0        | 10.8             | 6.0             | 4.0    |
|                                                       | 12             | 10.0        | 8.0        | 6.0        | 10.8             | 6.0             | 4.0    |
| <b>CDNF45</b><br><b>CDNF63</b>                        | IP65 (A)       | 5.9         | 5.1        | 3.4        | 5.35             | 4.57            | 1.2    |
|                                                       | IP65 (B)       | —           | —          | —          | —                | —               | —      |
|                                                       | 1              | 10.00       | 8.00       | 5.00       | 7.00             | 7.00            | 6.0    |
|                                                       | 3R             | 10.00       | 8.00       | 5.00       | 10.75            | 6.00            | 6.0    |
|                                                       | 4              | 10.00       | 8.00       | 6.00       | 10.75            | 6.00            | 6.0    |
|                                                       | 4X SS          | 10.00       | 8.00       | 5.00       | 10.75            | 6.00            | 6.0    |
| <b>CDNF30</b><br><b>CDNF60</b><br><b>CDNF100</b>      | 4X Plastic     | 10.00       | 8.00       | 7.90       | 10.75            | 6.00            | 6.0    |
|                                                       | 12             | 10.00       | 8.00       | 5.00       | 10.75            | 6.00            | 6.0    |
|                                                       | IP65 (A)       | 7.9         | 5.7        | 4.0        | 7.18             | 5.10            | 1.5    |
|                                                       | IP65 (B)       | —           | —          | —          | —                | —               | —      |
|                                                       | 1              | 10.0        | 8.0        | 5.0        | 7.0              | 7.0             | 9.0    |
|                                                       | 3R             | 10.0        | 8.0        | 5.0        | 10.75            | 6.0             | 9.0    |
| <b>CDNF160</b>                                        | 4              | 10.0        | 8.0        | 6.0        | 10.75            | 6.0             | 9.0    |
|                                                       | 4X SS          | 10.0        | 8.0        | 5.0        | 10.75            | 6.0             | 9.0    |
|                                                       | 4X Plastic     | 10.0        | 8.0        | 7.9        | 00.00            | 0.0             | 9.0    |
|                                                       | 12             | 10.0        | 8.0        | 5.0        | 0.0              | 6.0             | 9.0    |
|                                                       | IP65 (A)       | —           | —          | —          | —                | —               | —      |
|                                                       | IP65 (B)       | —           | —          | —          | —                | —               | —      |
| <b>CDNF200</b>                                        | 1              | 14.0        | 12.0       | 8.0        | 10.00            | 9.0             | 20     |
|                                                       | 3R             | 14.0        | 12.0       | 8.0        | 14.75            | 10.5            | 20     |
|                                                       | 4              | 14.0        | 12.0       | 8.0        | 14.75            | 10.5            | 20     |
|                                                       | 4X SS          | 14.0        | 12.0       | 8.0        | 14.75            | 10.5            | 20     |
|                                                       | 4X Plastic     | 14.0        | 12.0       | 8.0        | 00.00            | 0.0             | 20     |
|                                                       | 12             | 14.0        | 12.0       | 8.0        | 14.75            | 10.5            | 20     |
| <b>BDNF800</b><br><b>BDNF1200</b>                     | 1              | 20.0        | 20.0       | 8.0        | 21.50            | 18.5            | 60     |
|                                                       | 3R             | 20.0        | 20.0       | 8.0        | 21.50            | 18.5            | 60     |
|                                                       | 4              | 20.0        | 20.0       | 8.0        | 21.50            | 18.5            | 60     |
|                                                       | 4X SS          | 20.0        | 20.0       | 8.0        | 21.50            | 18.5            | 60     |
|                                                       | 4X Plastic     | 24.0        | 20.0       | 10.0       | 25.50            | 18.0            | 60     |
|                                                       | 12             | 20.0        | 20.0       | 8.0        | 21.50            | 18.5            | 60     |
| <b>BDNF1600</b><br><b>BDNF2000</b><br><b>BDNF3150</b> | 1              | 36.00       | 30.00      | 8.000      | 37.50            | 28.50           | 160.00 |
|                                                       | 3R             | 36.00       | 30.00      | 8.000      | 37.50            | 28.50           | 160.00 |
|                                                       | 4              | 36.00       | 30.00      | 8.000      | 37.50            | 28.50           | 160.00 |
|                                                       | 4X SS          | 36.00       | 30.00      | 8.000      | 37.50            | 28.50           | 160.00 |
|                                                       | 4X Plastic     | ①           | ①          | ①          | ①                | ①               | ①      |
|                                                       | 12             | 36.00       | 30.00      | 8.000      | 37.50            | 28.50           | 160.00 |
| <b>BDNF1600</b><br><b>BDNF2000</b><br><b>BDNF3150</b> | 1              | 60.00       | 36.00      | 12.00      | 61.50            | 34.50           | 240.00 |
|                                                       | 3R             | 60.00       | 36.00      | 12.00      | 61.50            | 34.50           | 240.00 |
|                                                       | 4              | 60.00       | 36.00      | 12.00      | 61.50            | 34.50           | 240.00 |
|                                                       | 4X SS          | 60.00       | 36.00      | 12.00      | 61.50            | 34.50           | 240.00 |
|                                                       | 4X Plastic     | ①           | ①          | ①          | ①                | ①               | ①      |
|                                                       | 12             | 60.00       | 36.00      | 12.00      | 61.50            | 34.50           | 240.00 |
| <b>BDNF1600</b><br><b>BDNF2000</b><br><b>BDNF3150</b> | 1              | 90.00       | 36.00      | 24.00      | 2.000            | 34.50           | 600.00 |
|                                                       | 3R             | 90.00       | 36.00      | 24.00      | 2.000            | 34.50           | 600.00 |
|                                                       | 4              | ①           | ①          | ①          | ①                | ①               | ①      |
|                                                       | 4X SS          | ①           | ①          | ①          | ①                | ①               | ①      |
|                                                       | 4X Plastic     | ①           | ①          | ①          | ①                | ①               | ①      |
|                                                       | 12             | 90.00       | 36.00      | 24.00      | ②                | ②               | 600.00 |

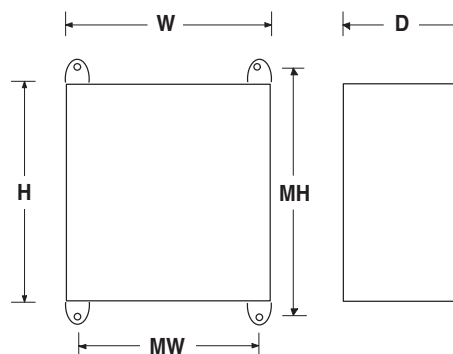
**Transfer Switches for Non-Fusible Enclosed**

| Frame Size                                            | Enclosure type | H<br>Height | W<br>Width | D<br>Depth | MH<br>Mtg Height | MW<br>Mtg Width | Weight |
|-------------------------------------------------------|----------------|-------------|------------|------------|------------------|-----------------|--------|
| <b>CDNF16</b><br><b>CDNF15</b><br><b>CDNF32</b>       | 1              | 8.0         | 6.0        | 4.0        | 3.0              | 5.0             | 4.0    |
|                                                       | 3R             | 8.0         | 6.0        | 4.0        | 6.75             | 4.0             | 4.0    |
|                                                       | 4              | 8.0         | 6.0        | 4.0        | 6.75             | 4.0             | 4.0    |
|                                                       | 4X SS          | 8.0         | 6.0        | 4.0        | 7.75             | 4.0             | 4.0    |
|                                                       | 4X Plastic     | 8.0         | 6.0        | 5.9        | 6.75             | 4.0             | 4.0    |
|                                                       | 12             | 8.0         | 6.0        | 4.0        | 6.75             | 4.0             | 4.0    |
| <b>CDNF45</b><br><b>CDNF63</b>                        | IP65 (A)       | —           | —          | —          | —                | —               | —      |
|                                                       | IP65 (B)       | —           | —          | —          | —                | —               | —      |
|                                                       | 1              | 14.0        | 12.0       | 8.0        | 7.00             | 7.0             | 6.0    |
|                                                       | 3R             | 14.0        | 12.0       | 8.0        | 10.75            | 6.0             | 6.0    |
|                                                       | 4              | 14.0        | 12.0       | 8.0        | 10.75            | 6.0             | 6.0    |
|                                                       | 4X SS          | 14.0        | 12.0       | 8.0        | 10.75            | 6.0             | 6.0    |
| <b>CDNF30</b><br><b>CDNF60</b><br><b>CDNF100</b>      | 4X Plastic     | 14.0        | 12.0       | 8.0        | 10.75            | 6.0             | 6.0    |
|                                                       | 12             | 14.0        | 12.0       | 8.0        | 10.75            | 6.0             | 6.0    |
|                                                       | IP65 (A)       | —           | —          | —          | —                | —               | —      |
|                                                       | IP65 (B)       | —           | —          | —          | —                | —               | —      |
|                                                       | 1              | 14.0        | 12.0       | 8.0        | 14.75            | 10.0            | 9.0    |
|                                                       | 3R             | 14.0        | 12.0       | 8.0        | 14.75            | 10.0            | 9.0    |
| <b>CDNF160</b>                                        | 4              | 14.0        | 12.0       | 8.0        | 14.75            | 10.0            | 9.0    |
|                                                       | 4X SS          | 14.0        | 12.0       | 8.0        | 14.75            | 10.0            | 9.0    |
|                                                       | 4X Plastic     | 14.0        | 12.0       | 8.0        | 16.75            | 12.0            | 9.0    |
|                                                       | 12             | 14.0        | 12.0       | 8.0        | 14.75            | 10.0            | 9.0    |
|                                                       | IP65 (A)       | —           | —          | —          | —                | —               | —      |
|                                                       | IP65 (B)       | —           | —          | —          | —                | —               | —      |
| <b>CDNF200</b>                                        | 1              | 20.0        | 16.0       | 6.0        | 21.50            | 14.5            | 20     |
|                                                       | 3R             | 20.0        | 16.0       | 6.0        | 21.50            | 14.5            | 20     |
|                                                       | 4              | 20.0        | 16.0       | 6.0        | 21.50            | 14.5            | 20     |
|                                                       | 4X SS          | 20.0        | 16.0       | 6.0        | 24.50            | 14.5            | 20     |
|                                                       | 4X Plastic     | 20.0        | 16.0       | 6.0        | 24.50            | 14.5            | 20     |
|                                                       | 12             | 20.0        | 16.0       | 6.0        | 24.50            | 14.5            | 20     |
| <b>BDNF800</b><br><b>BDNF1200</b>                     | 1              | 20.0        | 20.0       | 8.0        | 21.50            | 18.5            | 20     |
|                                                       | 3R             | 20.0        | 20.0       | 8.0        | 21.50            | 18.5            | 20     |
|                                                       | 4              | 20.0        | 20.0       | 8.0        | 21.50            | 18.5            | 20     |
|                                                       | 4X SS          | 20.0        | 20.0       | 8.0        | 21.50            | 18.5            | 20     |
|                                                       | 4X Plastic     | 24.0        | 20.0       | 10.0       | 25.50            | 18.0            | 60     |
|                                                       | 12             | 20.0        | 20.0       | 8.0        | 21.50            | 18.5            | 20     |
| <b>BDNF400</b><br><b>BDNF600</b>                      | 1              | 36.00       | 30.00      | 8.000      | 37.50            | 28.50           | 160.00 |
|                                                       | 3R             | 36.00       | 30.00      | 8.000      | 37.50            | 28.50           | 160.00 |
|                                                       | 4              | 36.00       | 30.00      | 8.000      | 37.50            | 28.50           | 160.00 |
|                                                       | 4X SS          | 36.00       | 30.00      | 8.000      | 37.50            | 28.50           | 160.00 |
|                                                       | 4X Plastic     | ①           | ①          | ①          | ①                | ①               | ①      |
|                                                       | 12             | 36.00       | 30.00      | 8.000      | 37.50            | 28.50           | 160.00 |
| <b>BDNF800</b><br><b>BDNF1200</b>                     | 1              | 60.00       | 36.00      | 12.00      | 61.50            | 34.50           | 240.00 |
|                                                       | 3R             | 60.00       | 36.00      | 12.00      | 61.50            | 34.50           | 240.00 |
|                                                       | 4              | 60.00       | 36.00      | 12.00      | 61.50            | 34.50           | 240.00 |
|                                                       | 4X SS          | 60.00       | 36.00      | 12.00      | 61.50            | 34.50           | 240.00 |
|                                                       | 4X Plastic     | ①           | ①          | ①          | ①                | ①               | ①      |
|                                                       | 12             | 60.00       | 36.00      | 12.00      | 61.50            | 34.50           | 240.00 |
| <b>BDNF1600</b><br><b>BDNF2000</b><br><b>BDNF3150</b> | 1              | 90.00       | 36.00      | 24.00      | ②                | ②               | 600.00 |
|                                                       | 3R             | 90.00       | 36.00      | 24.00      | ②                | ②               | 600.00 |
|                                                       | 4              | ①           | ①          | ①          | ①                | ①               | ①      |
|                                                       | 4X SS          | ①           | ①          | ①          | ①                | ①               | ①      |
|                                                       | 4X Plastic     | ①           | ①          | ①          | ①                | ①               | ①      |
|                                                       | 12             | 90.00       | 36.00      | 24.00      | ②                | ②               | 600.00 |

**Bypass Mechanisms for Non-Fusible Enclosed**

Please consult factory for part numbers and dimensions.

- 1 Please consult factory, enclosures are sized to suit specific customer needs.  
 2 Enclosure is free standing.  
 3 Some 4-pole switches require larger enclosures. Please consult factory.  
 4 Please consult factory for dimensions for bypass mechanisms for non-fusible disconnects.





# NEMA Environmental Ratings for Enclosed Disconnect Switches



## Introduction

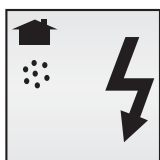
An enclosure is a surrounding case constructed to provide a degree of protection to personnel against accidental contact with the enclosed equipment and to provide a degree of protection to the enclosed equipment against specified environmental conditions.

A brief description of the more common types of enclosures used by the electrical industry relating to their environmental capabilities follows. Refer to

NEMA Standards Publication for more information regarding applications, features and design tests.

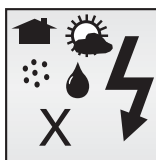
Individual NEMA product Standards Publications or third party certification standards may contain additional requirements for product testing and performance.

## Definitions pertaining to nonhazardous locations



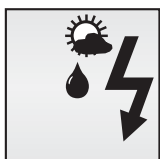
Type 1

Enclosures are intended for indoor use primarily to provide a degree of protection against limited amounts of falling dirt. (NEMA Standard 7-15-1991.)



Type 4X

Enclosures are intended for indoor or outdoor use primarily to provide a degree of protection against corrosion, windblown dust and rain, splashing water, hose-directed water and damage from external ice formation. (NEMA Standard 1-10-1979)



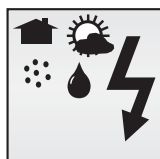
Type 3R

Enclosures are intended for outdoor use primarily to provide a degree of protection against rain, sleet and damage from external ice formation. (NEMA Standard 7-15-1991.)



Type 12

Enclosures are intended for indoor use primarily to provide a degree of protection against circulating dust, falling dirt, and dripping noncorrosive liquids. (NEMA Standard 7-15-1991.)



Type 4

Enclosures are intended for indoor or outdoor use primarily to provide a degree of protection against windblown dust and rain, splashing water, hose-directed water and damage from external ice formation. (NEMA Standard 1-10-1979.)



Type 13

Enclosures are intended for indoor use primarily to provide a degree of protection against dust, spraying of water, oil and noncorrosive coolant. (NEMA Standard 1-10-1979.)

Fusible

Non-Fused

Enclosed Fused

Enclosed Non-Fused

| Catalog Symbol | Page                               | Catalog Symbol | Page                                  | Catalog Symbol | Page                             | Catalog Symbol | Page                                      | Catalog Symbol | Page                  |
|----------------|------------------------------------|----------------|---------------------------------------|----------------|----------------------------------|----------------|-------------------------------------------|----------------|-----------------------|
| BBDHK          | 57                                 | BDS130S        | 3, 31                                 | BK7C084        | 20                               | CDNF32A3       | 29, 31-33, 35, 59, 65                     | EFJ-----       | 71, 72                |
| BD3RL          | 19, 57                             | BDS150         | 4, 7, 10, 32, 39, 42                  | BK7FCH4        | 20                               | CDNF32A3D      | 36, 38, 66                                | EFL-----       | 72                    |
| BDAUX1         | 15, 49, 53, 73, 81                 | BDS210         | 7, 10, 18, 39, 42, 56                 | BKD2R          | 20, 58                           | CDNF400U03     | 30, 45, 46, 60, 62, 64, 67                | ENF-----       | 75-80                 |
| BDAUX12        | 73                                 | BDS220         | 14                                    | BKDH3R         | 20, 58                           | CDNF45         | 31, 33, 34, 36, 61, 63, 83, 84            | FD200J3-S      | 18                    |
| BDAUX157       | 5, 73                              | BDS250         | 14                                    | BMKCS1         | 58                               | CDNF45A3       | 29, 31, 32, 59, 65                        | FD400J2        | 13                    |
| BDAUX2         | 15, 49, 53, 73, 81                 | BDS250S        | 3, 31                                 | BMKCS2         | 20                               | CDNF45A3D      | 36, 37, 66                                | FD400J3        | 2, 13, 21, 22, 23, 26 |
| BDAUX3         | 15, 49, 53                         | BDS280         | 13, 14, 45, 48, 52                    | BMKCS3         | 20, 58                           | CDNF45D        | 38                                        | FD400J3-FC     | 20                    |
| BDAUX4         | 15, 49, 53                         | BDS28045       | 14, 45, 48, 53                        | BMKCS4         | 20, 58                           | CDNF60         | 31, 34, 36, 61, 63, 83, 84                | FD400J3-S      | 18                    |
| BDAUX5         | 15, 49, 53                         | BDS290         | 7, 10, 39, 42                         | CDAUX01        | 33, 37, 81                       | CDNF60A3       | 29, 31, 32, 58, 59, 65                    | FD400J4        | 13                    |
| BDAUX6         | 15, 49, 53                         | BDS325         | 14, 18, 45, 48, 52, 56                | CDAUX01K       | 5, 8, 11, 43, 46, 73, 81         | CDNF60A3D      | 36, 66                                    | FD600J2        | 13                    |
| BDBUS114       | 53                                 | BDS32545       | 14, 45, 48, 53                        | CDAUX10        | 5, 8, 11, 33, 37, 43, 46, 73, 81 | CDNF63         | 31, 61, 63, 83, 84                        | FD600J3        | 2, 13, 21, 22, 23, 26 |
| BDBUS115       | 53                                 | BDS360         | 7, 10, 39, 42                         | CDAUX11        | 33, 37                           | CDNF63A3       | 29, 31, 32, 59, 65                        | FD600J3-FC     | 20                    |
| BDDHK          | 19, 57                             | BDS395         | 14, 45, 48, 52                        | CDAUX16011     | 40                               | CDNF63A3D      | 36, 66                                    | FD600J4        | 13                    |
| BDFHNS12       | 19, 57                             | BDS430         | 7, 10, 39, 42                         | CDAUXB160      | 40                               | CDPB1          | 34, 38                                    | FD800L2        | 13                    |
| BDFHNS4        | 19, 57                             | BDS465         | 14, 45, 48, 52                        | CDAUXCA01      | 40, 81                           | CDPB1EN1       | 34, 38                                    | FD800L3        | 2, 13, 21, 22, 23, 26 |
| BDFHS12        | 19, 57                             | BDS46545       | 14, 45, 48, 53                        | CDAUXCA10      | 40, 81                           | CDPB2          | 34, 38                                    | FD800L4        | 13                    |
| BDFHS17        | 19, 57                             | BDS535         | 14, 44, 48, 52                        | CDAUXM28       | 11, 43, 46                       | CDPB2EN1       | 34, 38                                    | FDSBZK98       | 16                    |
| BDFHS22        | 19, 57                             | BDS725         | 7, 10, 32, 39, 42                     | CDY67121       | 5                                | CDPY1          | 34, 38                                    | FDSBZL79       | 16                    |
| BDFLNF100-F    | 57                                 | BDS729         | 7, 10, 32, 39, 42                     | CDY68005       | 41                               | CDPY1EN1       | 34, 38                                    | NDNA100        | 5, 8, 34              |
| BDFLNF100-S    | 56                                 | BDS730         | 7, 10, 32, 39                         | CDY68140       | 38                               | CDPY2          | 34, 38                                    | NDNA200        | 5, 8, 34              |
| BDFLNF175-S    | 56                                 | BDS74          | 7, 10, 32, 39, 42                     | CDD200P        | 11, 43                           | CDPY2EN1       | 34, 38                                    | NNB-R          | 5                     |
| BDFLNF200A-F   | 57                                 | BDTA1          | 8                                     | CDE160P        | 40                               | CDS125PP       | 33                                        |                |                       |
| BDFLNF200A-S   | 56                                 | BDTA4          | 14                                    | CDE32PD        | 37                               | CDS160P        | 40                                        |                |                       |
| BDFLNF30-F     | 57                                 | BDTA6          | 14                                    | CDE63PD        | 37                               | CDS32PD        | 37                                        |                |                       |
| BDFLNF30-S     | 56                                 | BDTL175/400    | 14, 20, 27, 49                        | CDEA-01AU      | 40                               | CDS32PP        | 33                                        |                |                       |
| BDFLNF400-S    | 56                                 | BDTL24         | 2, 8, 18-19, 21, 27, 56, 57           | CDEA-10AU      | 40                               | CDS63PD        | 37                                        |                |                       |
| BDFLNF600A-S   | 56                                 | BDTL25         | 18, 56, 57                            | CDEA-2X01      | 40                               | CDS63PP        | 33                                        |                |                       |
| BDFLNF60-F     | 57                                 | BDTL26         | 2, 13, 14, 18, 20, 21, 27, 48, 56     | CDEA-2X10      | 40                               | CDS67P         | 56                                        |                |                       |
| BDFLNF60-S     | 56                                 | BDTL27         | 2, 14, 20, 21, 27, 30, 49, 56, 60, 70 | CDETL-ZT100    | 50                               | CDSA1          | 34                                        |                |                       |
| BDH106         | 72, 82                             | BDTL28         | 30, 52, 53, 60, 70                    | CDETL-ZT80A/*  | 16, 50, 54                       | CDSA2          | 34                                        |                |                       |
| BDH106SH       | 56                                 | BDTL28/2       | 30, 53, 60, 70                        | CDETL-ZT80L/*  | 16, 50, 54                       | CDSA3          | 34                                        |                |                       |
| BDH107         | 72, 82                             | BDTL30         | 30, 49, 60, 70                        | CDETL-ZW16     | 9, 11, 34, 40                    | CDSS200L3      | 11                                        |                |                       |
| BDH107SH       | 56                                 | BDTL32         | 49, 53                                | CDETL-ZW5      | 16, 46, 50, 54                   | CDSS200L4      | 11                                        |                |                       |
| BDH110SH       | 18, 56                             | BDTP85         | 15                                    | CDH3S          | 3                                | CDSS200S3      | 11                                        |                |                       |
| BDH111SH       | 18, 55                             | BDTP88         | 15                                    | CDH4           | 7                                | CDSS200S4      | 11                                        |                |                       |
| BDH112         | 13, 45, 48                         | BDTS12         | 53                                    | CDH5S          | 72, 82                           | CDSSWM5X8      | 32                                        |                |                       |
| BDH113         | 13, 45, 48                         | BDS4           | 49                                    | CDH6S          | 72, 82                           | CDT-E          | 34                                        |                |                       |
| BDH114         | 13, 45, 48, 52, 72, 82             | BDS6A          | 49                                    | CDH9S          | 36                               | CDTL200        | 2, 10, 11, 20, 21, 27, 30, 42, 43, 58, 60 |                |                       |
| BDH114SH       | 18, 56                             | BDS8A          | 49                                    | CDHTB20        | 42                               | CDTL200/3P     | 11, 20, 43, 58, 70                        |                |                       |
| BDH115         | 13, 45, 48, 52, 72, 82             | BDZD28         | 5                                     | CDHTY20        | 42                               | CDTL206        | 11, 20, 27, 43, 58, 70                    |                |                       |
| BDH115SH       | 18, 56                             | BDZD48         | 5                                     | CDHXB12        | 13, 45, 48, 52, 72, 82           | CDTL400        | 30, 45, 46, 60                            |                |                       |
| BDH116         | 13, 45, 48, 52, 72, 82             | BDZW1          | 35, 41                                | CDHXB22        | 13, 45, 48, 52, 72, 82           | CDTL400/3P     | 46, 70                                    |                |                       |
| BDH117         | 13, 45, 48, 52, 72, 82             | BDZW10         | 9, 44                                 | CDHXB65L6      | 4, 32, 72, 82                    | CDTL-ST        | 34                                        |                |                       |
| BDH120         | 82                                 | BDZW12         | 47, 51, 55                            | CDHXB86        | 7, 10, 39, 42, 72, 82            | CDTL-ZX58      | 34                                        |                |                       |
| BDH121         | 82                                 | BDZW13         | 47, 51, 55                            | CDHXY12        | 13, 45, 48, 52, 72, 82           | CDTS100T1      | 34, 38                                    |                |                       |
| BDH58          | 4, 7, 10, 32, 39, 72               | BDZW14         | 47, 51                                | CDHXY22        | 13, 45, 48, 52, 72, 82           | CDTS100T3      | 34, 38                                    |                |                       |
| BDH58SH        | 18                                 | BDZW15         | 47, 51, 55                            | CDHXY65        | 72, 82                           | CDTS250G1L/3   | 43                                        |                |                       |
| BDH58T         | 4                                  | BDZW1X         | 41                                    | CDHY65L6       | 4, 32                            | CDTS250G1L/4   | 43                                        |                |                       |
| BDH59          | 4, 7, 10, 32, 39, 42, 72           | BDZW2          | 9, 12, 28, 41, 44                     | CDL125PP       | 33                               | CDTS250G1S/3   | 43                                        |                |                       |
| BDH59SH        | 18                                 | BDZW3          | 47, 51                                | CDL63PP        | 33                               | CDTS250G1S/4   | 43                                        |                |                       |
| BDH59T         | 4                                  | BDZW5          | 6                                     | CDL65PD        | 37                               | CDZK19         | 9, 12, 41, 44, 47                         |                |                       |
| BDH60          | 7, 10, 39, 42, 72, 82              | BDZW9          | 17, 28, 47, 51, 55                    | CDMB160        | 40                               | CDZW10         | 41                                        |                |                       |
| BDH61          | 7, 10, 39, 42, 72, 82              | BDZW95         | 9, 12, 16, 43, 46, 50, 54             | CDMC2          | 41                               | CDZW17         | 35                                        |                |                       |
| BDH8           | 13, 48, 52, 72, 82                 | BDZX108        | 16, 50                                | CDN160P        | 40                               | CDZW25         | 44                                        |                |                       |
| BDHFC12        | 20, 58                             | BDZX167        | 9, 12, 40, 43                         | CDN32PD        | 37                               | CDZW26         | 44                                        |                |                       |
| BDHFC4         | 20, 58                             | BDZX196        | 15                                    | CDN63PD        | 37                               | CDZW8          | 35                                        |                |                       |
| BDNF1200       | 30, 52-55, 60, 62, 64, 68, 83, 84  | BDZX197        | 15                                    | CDNF100        | 31, 58, 61, 63, 83, 84           | CFC60J         | 8                                         |                |                       |
| BDNF12002      | 52                                 | BDZX204        | 15                                    | CDNF100A3      | 29, 31-33, 35-37, 58, 59, 65, 66 | CFCVR100       | 8                                         |                |                       |
| BDNF12004      | 52                                 | BDZX216        | 15                                    | CDNF100A3D     | 36, 37, 66                       | CFCVR200       | 11                                        |                |                       |
| BDNF1600       | 30, 52, 53, 60, 62, 64, 69, 83, 84 | BDZX271        | 15                                    | CDNF100S       | 36                               | CFD100J3       | 2, 7, 21, 22, 23, 25                      |                |                       |
| BDNF16002      | 52, 53                             | BDZX272        | 15                                    | CDNF16         | 29, 31-36, 59, 61, 63, 83, 84    | CFD100J3F      | 19                                        |                |                       |
| BDNF16004      | 52                                 | BDZX273        | 15                                    | CDNF160        | 29, 39, 41, 59, 61, 63, 83, 84   | CFD100J3S      | 18                                        |                |                       |
| BDNF2000       | 30, 52, 53, 60, 62, 64, 69, 83, 84 | BDZX71         | 49, 54                                | CDNF160-2      | 39                               | CFD200J03      | 2, 10, 11, 20, 21, 22, 23, 25             |                |                       |
| BDNF20002      | 52                                 | BDZX73         | 49                                    | CDNF160D       | 39                               | CFD200J04      | 10, 11                                    |                |                       |
| BDNF20004      | 52                                 | BDZX74         | 18, 56                                | CDNF16A3       | 29, 31, 32, 59, 65               | CFD30CC3       | 2, 21, 22, 23                             |                |                       |
| BDNF3150       | 30, 52-55, 60, 62, 64, 68, 83, 84  | BDZX85         | 49                                    | CDNF16A3D      | 36, 37, 66                       | CFD30CC3S      | 18                                        |                |                       |
| BDNF31502      | 52                                 | BDZX90         | 54                                    | CDNF16D        | 38                               | CFD30J3F       | 19                                        |                |                       |
| BDNF31504      | 52                                 | BDZX95         | 12, 40, 43                            | CDNF200U03     | 30, 42, 43, 58, 60, 62, 64, 67   | CFD30J3S       | 18                                        |                |                       |
| BDNF600A       | 30, 48-51, 60, 62, 64, 67          | BDZXB          | 6                                     | CDNF200U04     | 42, 43                           | CFD60J3        | 2, 7, 20, 21, 22, 23, 24                  |                |                       |
| BDNF600A2      | 48                                 | BFCL108        | 20                                    | CDNF25         | 31, 61, 63, 83                   | CFD60J3F       | 19                                        |                |                       |
| BDNF600A4      | 48                                 | BFCL36         | 20, 58                                | CDNF25A3       | 29, 31, 32, 59, 65               | CFD60J3S       | 18                                        |                |                       |
| BDNF800A       | 30, 48-51, 60, 62, 64, 68          | BFCL48         | 20, 58                                | CDNF25A3D      | 36, 66                           | CFD60J4        | 7                                         |                |                       |
| BDNF800A2      | 48                                 | BFCL60         | 20, 58                                | CDNF25DA3D     | 38                               | CFDZX171       | 5                                         |                |                       |
| BDNF800A4      | 48                                 | BFCL72         | 20, 58                                | CDNF30         | 31-34, 36, 58, 61, 63, 83, 84    | CFTS100        | 8                                         |                |                       |
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|                |                                    | BK7C060        | 20                                    | CDNF30D        | 38                               | CPBR200        | 11                                        |                |                       |
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