

for Non-Fusible Disconnect Switches

CDNF16 – CDFN160



CDNF16 CDFN25 CDFN32



CDNF30 CDFN60 CDFN100



CDNF160

| Catalog number | 3 pole | CDNF16 | CDNF25 | CDNF32 | CDNF45 | CDNF63 | CDNF30 | CDNF60 | CDNF100 | CDNF160 |
|--|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|
| General purpose amp rating | A | 16 | 25 | 40 | 60 | 80 | 30 | 60 | 100 | 125 |
| Approvals ^① | | | | | | | | | | |
| | 2 pole | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | UL98 |
| | 3 pole | UL508 | UL508 | UL508 | UL508 | UL508 | UL98 | UL98 | UL98 | UL98 |
| | 4 pole | UL508 | UL508 | UL508 | UL508 | UL508 | UL98 | UL98 | UL98 | UL98 |
| Technical ratings | | | | | | | | | | |
| UL, CSA^② | | | | | | | | | | |
| Max operating voltage | V | 600 | 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 | 25 | 30 |
| 480V | HP | 10 | 15 | 20 | 30 | 40 | 20 | 40 | 50 | 60 |
| 600V | HP | 10 | 20 | 25 | 20 | 40 | 30 | 40 | 40 | 75 |
| Single phase | | | | | | | | | | |
| 120V | HP | 1/2 | 3/4 | 1 | 2 | 2 | 2 | 3 | 5 | 7.5 |
| 240V | HP | 1.5 | 2 | 3 | 5 | 5 | 5 | 7.5 | 15 | 20 |
| Technical ratings | | | | | | | | | | |
| IEC^③ | | | | | | | | | | |
| Rated insulation and operational voltage. AC20 and DC20 ^④ | V | 750 | 750 | 750 | 750 | 750 | 750 | 750 | 750 | 750 |
| Rated thermal current, I _{in} | | | | | | | | | | |
| AC 20/DC 20 open | A | 25 | 32 | 40 | 63 | 80 | 40 | 63 | 115 | 200 |
| AC 20/DC 20 enclosed | A | 25 | 32 | 40 | 63 | 80 | 40 | 63 | 115 | 160 |
| AC 21A 500V | A | 16 | 25 | 32 | 63 | 80 | 40 | 63 | 100 | 160 |
| 690V | A | 16 | 25 | 32 | 63 | 80 | 40 | 63 | 100 | 160 |
| Rated operational power AC23 | | | | | | | | | | |
| 400/415V | 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 |
| Physical characteristics | | | | | | | | | | |
| Weight ^④ | 3 pole lb | 0.24 | 0.24 | 0.24 | 0.59 | 0.59 | 0.79 | 0.79 | 0.79 | 2.42 |
| Dimension | 3 pole H in | 2.68 | 2.68 | 2.68 | 3.60 | 3.60 | 3.94 | 3.94 | 3.94 | 5.00 |
| | W in | 1.38 | 1.38 | 1.38 | 2.07 | 2.07 | 2.76 | 2.76 | 2.76 | 4.96 |
| | D in | 2.20 | 2.20 | 2.20 | 2.85 | 2.85 | 2.95 | 2.95 | 2.95 | 2.93 |
| Accessories | | | | | | | | | | |
| Terminal lug kit | | Integral | 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, CSA approved, IEC rated, CE marked

- ① UL listed switches are also CSA 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

for Non-Fusible Disconnect Switches

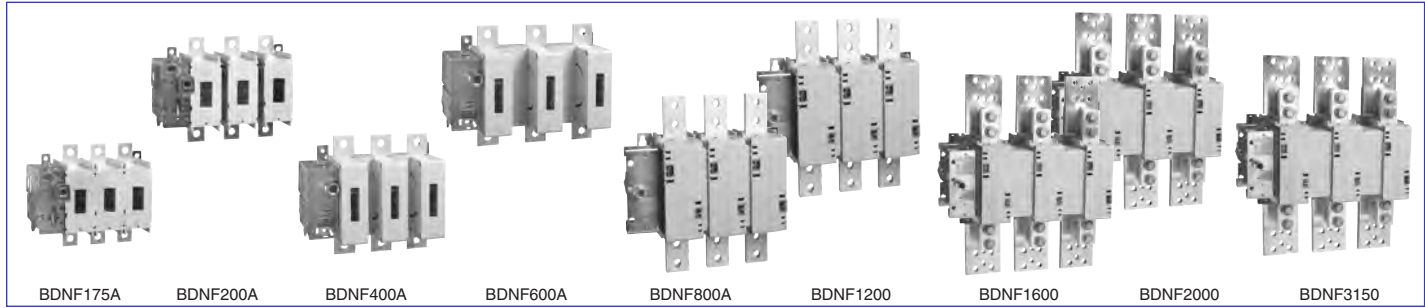
BDNF200A – BDNF3150

Fusible

Non-Fused

Enclosed Fused

Enclosed Non-Fused



| Catalog number | 3 pole | BDNF175A | BDNF200A | BDNF400 | BDNF600A | BDNF800A | BDNF1200 | BDNF1600 | BDNF2000 | BDNF3150 |
|--|----------------------------|-----------------------------------|---------------------------------|--|--|--|---------------------------------|---------------------------------|---------------------------------|-------------------|
| General purpose amp rating | A | 175 | 200 | 400 | 600 | 800 | 1200 | 1600 | 2000 | 3150 |
| Approvals^① | 2 pole 3 pole 4 pole | UL508 & IEC UL508 & IEC IEC | UL98 & IEC UL98 & IEC IEC | UL98 & IEC UL98 & IEC UL98 & IEC | UL98 & IEC UL98 & IEC UL98 & IEC | UL98 & IEC UL98 & IEC UL98 & IEC | UL98 & IEC UL98 & IEC IEC | UL98 & IEC UL98 & IEC IEC | UL98 & IEC UL98 & IEC IEC | IEC IEC IEC |
| Technical ratings | | | | | | | | | | |
| UL, CSA^② | | | | | | | | | | |
| Max operating voltage | V | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 |
| Max horsepower rating | | | | | | | | | | |
| Three phase | | | | | | | | | | |
| 200 – 208V | HP | 30 | 60 | 100 | 150 | 200 | — | — | — | — |
| 240V | HP | 40 | 75 | 125 | 200 | 250 | — | — | — | — |
| 480V | HP | 75 | 150 | 250 | 400 | 500 | — | — | — | — |
| 600V | HP | 100 | 200 | 350 | 500 | 600 | — | — | — | — |
| Single phase | | | | | | | | | | |
| 120V | HP | — | — | — | — | — | — | — | — | — |
| 240V | HP | — | — | — | — | — | — | — | — | — |
| Technical ratings | | | | | | | | | | |
| IEC^③ | | | | | | | | | | |
| Rated insulation and operational voltage. AC20 and DC20 ^④ | V | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| Rated thermal current, I _{th} | | | | | | | | | | |
| AC 20/DC 20 open | A | 200 | 315 | 630 | 800 | 1250 | 1600 | 2500 | 2500 | 3150 |
| AC 20/DC 20 enclosed | A | 200 | 270 | 630 | 720 | 1250 | 1600 | 2300 | 2300 | 2600 |
| AC 21A 500V | A | 200 | 250 | 630 | 800 | 1250 | 1600 | 2500 | 2500 | 3150 |
| AC 21A 690V | A | 200 | 250 | 630 | 800 | 1250 | 1600 | 2500 | 2500 | 3150 |
| Rated operational power AC23 | | | | | | | | | | |
| 400/415V | kW | 90 | 132 | 315 | 355 | 400 | 400 | 400 | 400 | 400 |
| 690V | kW | 170 | 200 | 355 | 355 | — | — | — | — | — |
| Physical characteristics | | | | | | | | | | |
| Weight ^④ | 3 pole lb | 6.61 | 6.61 | 13.66 | 13.66 | 35.9 | 38.55 | 127.7 | 127.7 | 127.7 |
| Dimension | 3 pole H in | 8.35 | 8.35 | 11.81 | 11.77 | 19.09 | 19.09 | 25.04 | 25.04 | 25.04 |
| | W in | 7.83 | 8.62 | 10.24 | 11.93 | 14.29 | 14.29 | 18.43 | 18.43 | 18.43 |
| | D in | 4.55 | 4.55 | 5.12 | 5.12 | 4.92 | 4.92 | 10.67 | 10.67 | 10.67 |
| Accessories | | | | | | | | | | |
| Terminal lug kit | | BDTL25 | BDTL25 | BDTL26 | 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

UL listed, CSA approved, IEC rated, CE marked

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

for Non-Fusible Disconnect Switches
Base & DIN Rail Mounted

For a complete assembly,
please select one of each:

- 1 switch
- 1 handle
- 1 shaft



CDNF63



CDS85S



CDH3S



CDNF16
CDNF25
CDNF32



CDNF30
CDNF60
CDNF100



CDH1S



CDH15S



CDH6S



CDS_S

16 – 100 Amp switches, 600V, 3 pole^①

| UL general purpose amp rating | IEC AC21 amp rating | Maximum horsepower rating | | | | | | Terminal lugs | | Catalog 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 | CDNF16 |
| 25 | 25 | 3/4 | 2 | 7.5 | 7.5 | 15 | 20 | #18 – 8 | Cu | CDNF25 |
| 40 | 40 | 1 | 3 | 10 | 10 | 20 | 25 | #18 – 8 | Cu | CDNF32 |
| 60 | 63 | 2 | 5 | 15 | 15 | 30 | 20 | #14 – 4 | Cu | CDNF45 |
| 80 | 80 | 2 | 5 | 20 | 20 | 40 | 40 | #14 – 1 | Cu | CDNF63 |
| 30 | 40 | 2 | 5 | 10 | 10 | 20 | 30 | #14 – 4 | Cu | CDNF30 |
| 60 | 63 | 3 | 7.5 | 20 | 20 | 40 | 40 | #14 – 4 | Cu | CDNF60 |
| 100 | 115 | 5 | 15 | 25 | 25 | 50 | 40 | #8 – 1/0 | Cu | CDNF100 |

Selector handles — for use with shafts \square .20 x .20" (\square 5x5mm)

| NEMA type | IEC type | Color | Defeatable | Padlockable | Weight (lbs) | Catalog number |
|---|----------|---------|------------|-------------|--------------|---------------------|
| All marked both O/I & Off/On | | | | | | |
| 1 | IP54 | Black | — | — | 0.09 | CDH1S ^② |
| 1 | IP54 | Red/Yel | — | — | 0.09 | CDH2S ^② |
| 1 | IP54 | Black | — | Yes | 0.12 | CDH15S ^② |
| 1 | IP54 | Red/Yel | — | Yes | 0.12 | CDH16S ^② |
| 1,3R,12 | IP65 | Black | — | Yes | 0.16 | CDH3S |
| 1,3R,12 | IP65 | Red/Yel | — | Yes | 0.16 | CDH4S |
| 1,3R,12 | IP65 | Black | Yes | Yes | 0.16 | CDH5S |
| 1,3R,12 | IP65 | Red/Yel | Yes | Yes | 0.16 | CDH6S |

Shafts — for use with CDH selector handles \square .20 x .20" (\square 5x5mm)

| Shaft length inches/mm | Mounting depth ^③ in inches | | | | | Weight (lbs) | Catalog number |
|------------------------|---------------------------------------|------------------------------|--------------------------------|------------------------------|------------------------------|--------------|----------------|
| | CDNF16 CDNF25 CDNF32 | | CDNF45 CDNF63 | | CDNF30 CDNF60 CDNF100 | | |
| | CDH1S, CDH2S CDH15S, CDH16S | CDH3S, CDH4S CDH5S, CDH6S | CDH1S, CDH2S CDH15S, CDH16S | CDH3S, CDH4S CDH5S, CDH6S | CDH3S, CDH4S CDH5S, CDH6S | | |
| 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 | CDS85S |
| 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 | CDS105S |
| 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 | CDS120S |
| 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 | CDS130S |
| 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 | CDS180S |
| 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 | CDS250S |
| 13/330 | 13.8 – 14.6 | 13.3 – 14.0 | 14.6 – 15.3 | 14.0 – 14.7 | 13.5 – 14.5 | 0.14 | CDS330S |

① A snap on fourth pole may be added

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

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

Fusible

Non-Fused

Enclosed Fused

Enclosed Non-Fused

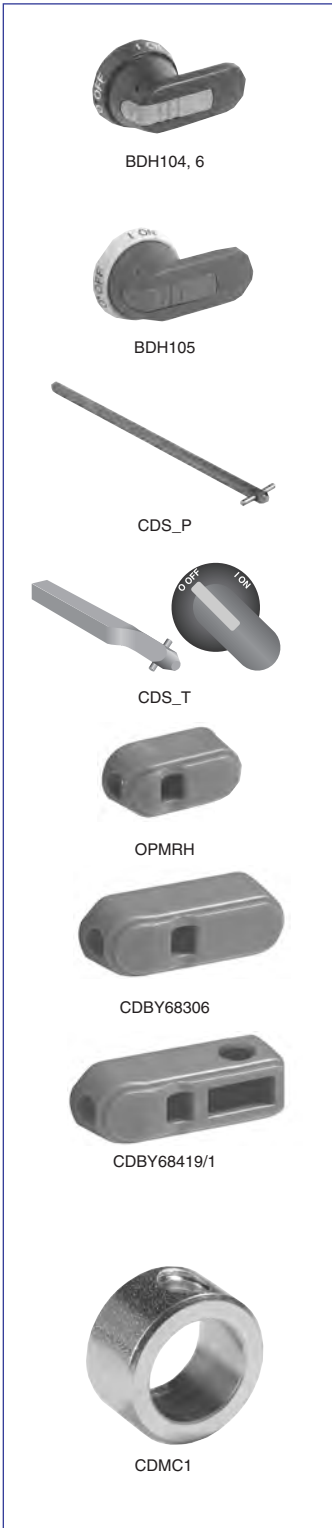
for 16A – 100A Non-Fusible Disconnect Switches Base & DIN Rail Mounted

Fusible

Non-Fused

Enclosed Fused


Enclosed Non-Fused



Pistol handles — for use with shafts $\square .20 \times .20"$ ($\square 5 \times 5 \text{ mm}$)


| 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 | BDH104 |
| 1,3R,12 | IP65 | Red/Yel | O/I & Off/On | 1.8/45 | Yes | Yes | 0.28 | BDH105 |
| 1,3R,12 | IP65 | Black | O/I & Off/On | 2.6/65 | Yes | Yes | 0.29 | BDH106 |
| 1,3R,12 | IP65 | Red/Yel | O/I & Off/On | 2.6/65 | Yes | Yes | 0.29 | BDH107 |
| 1,3R,12,4,4X | IP66 | Black | O/I & Off/On | 2.6/65 | Yes | Yes | 0.29 | CDHXB65 |
| 1,3R,12,4,4X | IP66 | Red/Yel | O/I & Off/On | 2.6/65 | Yes | Yes | 0.29 | CDHXY65 |

Shafts — for use with pistol handles $\square .20 \times .20"$ ($\square 5 \times 5 \text{ mm}$)



| Shaft length (inches/mm) | Mounting depth ^① in inches | | | Weight (lbs.) | Catalog number |
|--------------------------|---------------------------------------|------------------|-----------------------------|---------------|----------------|
| | CDNF16 CDNF25 CDNF32 | CDNF45 CDNF63 | CDNF30 CDNF60 CDNF100 | | |
| 5.9/150 | 6.2 – 6.7 | 6.9 – 7.4 | 6.4 – 7.4 | 0.07 | CDS48P |
| 6.7/170 | 7.0 – 7.5 | 7.7 – 8.1 | 7.2 – 8.1 | 0.08 | CDS67P |
| 10.4/265 | 10.7 – 11.3 | 11.4 – 11.9 | 10.9 – 11.9 | 0.12 | CDS49P |
| 15.8/400 | 16.0 – 16.6 | 16.8 – 17.2 | 16.2 – 17.2 | 0.18 | CDS50P |
| 19.7/500 | 20.0 – 20.5 | 20.7 – 21.1 | 20.1 – 21.1 | 0.23 | CDS99P |

Twisted shafts — Rotates handle 45° $\square .20 \times .20"$ ($\square 5 \times 5 \text{ mm}$)



| Shaft length (inches/mm) | Mounting depth ^① in inches | | | Weight (lbs.) | Catalog number |
|--------------------------|---------------------------------------|------------------|-----------------------------|---------------|----------------|
| | CDNF16 CDNF25 CDNF32 | CDNF45 CDNF63 | CDNF30 CDNF60 CDNF100 | | |
| 5.9/150 | 6.2 – 6.7 | 6.9 – 7.4 | 6.4 – 7.4 | 0.07 | CDS48T |
| 6.7/170 | 7.0 – 7.5 | 7.7 – 8.1 | 7.2 – 8.1 | 0.08 | CDS67T |
| 10.4/265 | 10.7 – 11.3 | 11.4 – 11.9 | 10.9 – 11.9 | 0.12 | CDS49T |
| 15.8/400 | 16.0 – 16.6 | 16.8 – 17.2 | 16.2 – 17.2 | 0.18 | CDS50T |

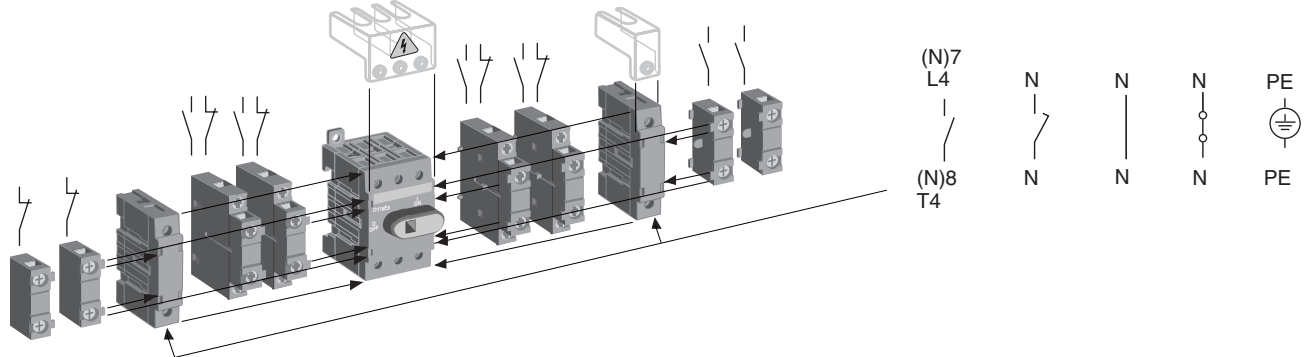
Replacement knob — mounts directly to switch; no shaft necessary

| NEMA Type | Color | For use on: | Length (inches) | Padlockable | Catalog number |
|--------------|-------|-------------------------------------|-----------------|------------------|--------------------------|
| 1 | Red | CDNF16, 25, 32 | 1.0 | — | OPMRH |
| 1 | Red | CDNF30, 45, 60, 63, 100 | 1.4 | — | CDBY68306 ^③ |
| 1 | Red | CDNF30, 45, 60, 63, 100 | 1.6 | Yes ^② | CDBY68419/1 ^③ |
| Metal collar | | CDNF16 – CDNF100 | — | — | CDMC1 |
| Set screw | | CDNF16, 25, 30, 32, 45, 60, 63, 100 | — | — | CDSWM5X8 |

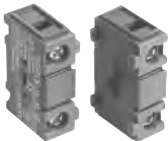
① Mounting depth is the distance from the outside of door to the disconnect switch mounting plate. Shaft can be cut to desired length.
 ② .1875" (3/16") diameter shackle required.
 ③ Set screw CDSWM5X8 needed with replacement knobs CDBY__.

for 16A – 100A Non-Fusible Disconnect Switches Base & DIN Rail Mounted

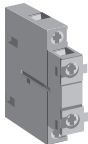
Base and DIN rail mounted switches



Auxiliary contacts^① — snap-on mounting



CDAUX



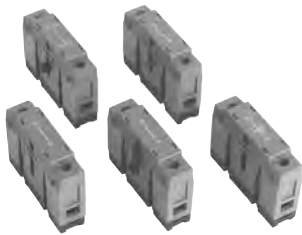
CDAUX11

| 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 – CDNF100 | 0.07 | 10 | 600 | CDAUX10 |
| 1 N.C. mounts on left hand side of switch only | CDNF16 – CDNF100 | 0.07 | 10 | 600 | CDAUX01 |
| 1 N.O. + 1 N.C. mounts on left or right hand side of switch | CDNF16 – CDNF100 | 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



CD_32P

| Description | For use on: | Weight (lbs.) | AC thermal amp rating | AC rated voltage | Catalog number |
|------------------------------------|------------------|----------------------|-----------------------|-------------------|-----------------------------|
| Fourth pole ^② | CDNF16 – CDNF100 | 0.07 0.13 0.31 | 40 80 100 | 600 600 600 | CDS32P CDS63P CDS125P |
| Late-break/early-make ^② | CDNF16 – CDNF100 | 0.07 0.13 0.31 | 40 80 100 | 600 600 600 | CDL32P CDL63P CDL125P |



CD_63P

Terminal poles

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



CD_125P

| Description | For use on: | Weight (lbs.) | AC thermal amp rating | AC rated voltage | Catalog number |
|---------------------------------|------------------|----------------------|-----------------------|-------------------|-----------------------------|
| Solid neutral ^② | CDNF16 – CDNF100 | 0.07 0.13 0.31 | 40 80 100 | 600 600 600 | CDN32P CDN63P CDN125P |
| Detachable neutral ^② | CDNF16 – CDNF100 | 0.07 0.13 0.31 | 40 80 100 | 600 600 600 | CDD32P CDD63P CDD125P |
| Ground terminal ^② | CDNF16 – CDNF100 | 0.07 0.13 0.31 | 40 80 100 | 600 600 600 | CDE32P CDE63P CDE125P |

① UL File # E83510

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

Fusible

Non-Fused

Enclosed Fused

Enclosed Non-Fused

for 16A – 100A Non-Fusible Disconnect Switches

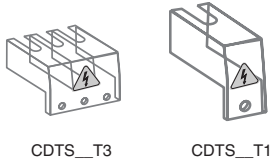
Base & DIN Rail Mounted

Fusible

Non-Fused

Enclosed Fused

Enclosed Non-Fused



CDTS_T3

CDTS_T1

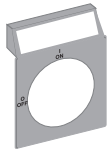


CDSA1

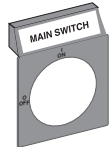
CDSA2



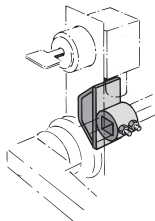
CDTL-ST



CDP_2



CDP_2EN1



CDETL-ZW16

NDNA100
NDNA200

Terminal shrouds* — snap on mounting for line or load side

| Description | For use on: | Weight (lbs.) | Catalog number |
|--|-------------------------|---------------|-----------------------------------|
| 3 pole includes one shroud for line or load side | CDNF16, CDNF25, CDNF32, | 0.02 | CDTS32T3 CDTS63T3 CDTS125T3 |
| | CDNF45, CDNF63, | 0.02 | |
| | CDNF30, CDNF60, CDNF100 | 0.02 | |
| 4th pole includes one shroud for line or load side | CD_32P | 0.02 | CDTS32T1 CDTS63T1 CDTS125T1 |
| | CD_63P | 0.02 | |
| | CD_125P | 0.02 | |

* 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 with a max. 0.137" shackle | CDNF30, CDNF45 CDNF60, CDNF63 CDNF100 | 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, CDNF45 CDNF60, CDNF63 CDNF100 | 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 Yellow Black Yellow | CDH15, 25, 75, 85, 115, 125 155, 165, 175, 185, 195, 205 | CDPB1 CDPY1 CDPB2 CDPY2 |
| | CDH35, 45, 55, 65, 95, 105, 135, 145 | |
| Plate marked with: MAIN SWITCH Black Yellow Black Yellow | CDH15, 25, 75, 85, 115, 125 155, 165, 175, 185, 195, 205 | CDPB1EN1 CDPY1EN1 CDPB2EN1 CDPY2EN1 |
| | CDH35, 45, 55, 65, 95, 105, 135, 145 | |

Locking accessories

| Description | For use on: | Weight (lbs.) | Catalog number |
|--|-------------------|---------------|----------------|
| Cam attachment 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 |

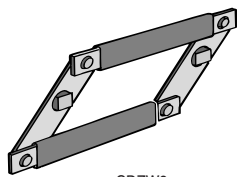
DIN rail

| Description | For use on: | Weight (lbs.) | Length inches/mm | Catalog number |
|------------------------|------------------|---------------|------------------|----------------|
| 35mm DIN Rail | CDNF16 – CDNF100 | .38 | 39.4/1000 | NDNA100 |
| 35mm Aluminum DIN Rail | CDNF16 – CDNF100 | .75 | 78.8/1000 | NDNA200 |

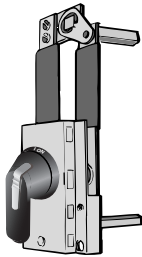
Shaft support

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

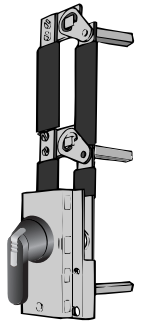
for 16A – 100A Non-Fusible Disconnect Switches Base & DIN Rail Mounted



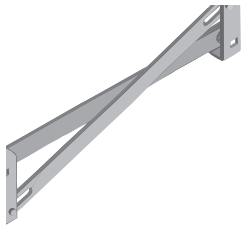
CDZW8



CDZW6



CDZW17



CDZW24

Conversion mechanisms

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

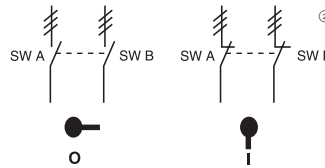
| Description | For use on: | Weight (lbs.) | Catalog number |
|-------------|------------------|---------------|----------------|
| 6 or 8 pole | CDNF16 – CDNF100 | 0.33 | CDZW8 |
| Transfer | | 1.87 | CDZW6 |
| Bypass | | 1.54 | CDZW17 |

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^①
- One 5mm shaft



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

X = Closed
O = Open

Transfer — CDZW6

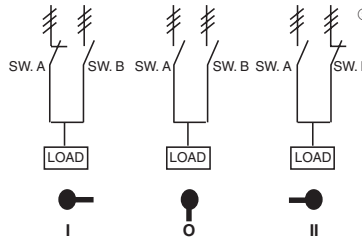
Transfer mechanism manually transfers between two power sources using two switches and a center OFF position.

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

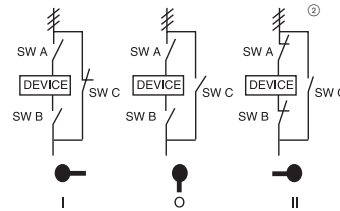
Bypass mechanism operates three switches: Two switches in series and one changeover switch to allow power bypass.

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

X = Closed
O = Open

① CDNF16 – CDNF32 can use a selector or pistol handle. All other sizes must use a pistol handle.

② = Three poles

Fusible

Non-Fused

Enclosed Fused

Enclosed Non-Fused

Non-Fusible Disconnect Switches

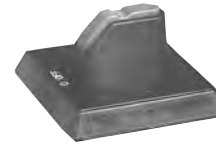
Door Mounted

For a complete assembly, please order one of each:

- 1 switch
- 1 handle



CDNF45D



CDH9S

Fusible

Non-Fused

Enclosed Fused

Enclosed Non-Fused



CDNF16
CDNF25
CDNF32



CDH8S
CDH12S



CDH17S
CDH19S



CDH9S
CDH13S



CDH10S
CDH14S

16 – 100 Amp switches, 600V, 3 pole^{①②③}

| UL general purpose amp rating | IEC AC21 amp rating | Maximum horsepower rating | | | | | | Terminal lugs | | Catalog 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 | CDNF16D |
| 25 | 25 | 3/4 | 2 | 7.5 | 7.5 | 15 | 20 | #18 – 8 | Cu | CDNF25D |
| 40 | 40 | 1 | 3 | 10 | 10 | 20 | 25 | #18 – 8 | Cu | CDNF32D |
| 60 ^④ | 63 | 2 | 5 | 15 | 15 | 30 | 20 | #14 – 4 | Cu | CDNF45D |
| 80 ^④ | 80 | 2 | 5 | 20 | 20 | 40 | 40 | #14 – 1 | Cu | CDNF63D |
| 30 ^④ | 40 | 2 | 5 | 10 | 10 | 20 | 30 | #14 – 4 | Cu | CDNF30D |
| 60 ^④ | 63 | 3 | 7.5 | 20 | 20 | 40 | 40 | #14 – 4 | Cu | CDNF60D |
| 100 ^④ | 115 | 5 | 15 | 25 | 25 | 50 | 40 | #8 – 1/0 | Cu | CDNF100D |

Selector handles

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

All marked both O/I & Off/On

Snap-on mounting — for use on CDNF16, 25, 32D

| NEMA/UL type | IEC type | Color | Defeatable | Padlockable | Weight (lbs) | Catalog number |
|--------------|----------|---------|------------|-------------|--------------|----------------|
| 1 | IP54 | Black | — | — | 0.10 | CDH7S |
| 1 | IP54 | Red/Yel | — | — | 0.10 | CDH8S |
| 1 | IP54 | Black | — | Yes | 0.13 | CDH19S |
| 1 | IP54 | Red/Yel | — | Yes | 0.13 | CDH20S |
| 1,3R,12 | IP65 | Black | — | Yes | 0.17 | CDH9S |
| 1,3R,12 | IP65 | Red/Yel | — | Yes | 0.17 | CDH10S |

Screw mounting — for use on CDNF16, 25, 32, 45 & 63D

| NEMA/UL type | IEC type | Color | Defeatable | Padlockable | Weight (lbs) | Catalog number |
|--------------|----------|---------|------------|-------------|--------------|----------------|
| 1 | IP54 | Black | — | — | 0.11 | CDH11S |
| 1 | IP54 | Red/Yel | — | — | 0.11 | CDH12S |
| 1 | IP54 | Black | — | Yes | 0.14 | CDH17S |
| 1 | IP54 | Red/Yel | — | Yes | 0.14 | CDH18S |
| 1,3R,12 | IP65 | Black | — | Yes | 0.18 | CDH13S |
| 1,3R,12 | IP65 | Red/Yel | — | Yes | 0.18 | CDH14S |

Door mounted switches do not provide door interlock

Pistol grip handle adapter

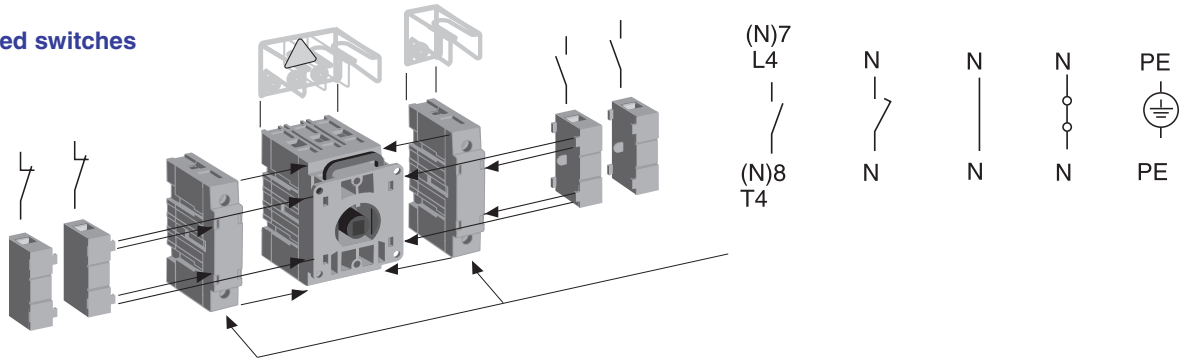
| Description | For use on: | Weight (lbs) | Catalog number |
|--------------------------------------|-------------------------|--------------|----------------|
| Adapter piece for pistol grip handle | CDNF30, CDNF60, CDNF100 | 0.18 | CDHZX6 |

- 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.

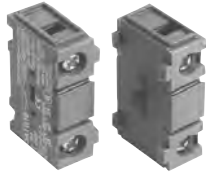
for 16A – 100A Non-Fusible Disconnect Switches

Door Mounted

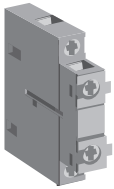
Door mounted switches



Fusible



CDAUX_



CDAUX11



CD_32D



CD_63D

Auxiliary contacts^① — snap-on mounting

| Description | For use on: | Weight (lbs) | AC thermal amp rating | AC rated voltage | Catalog number |
|---|--------------------|--------------|-----------------------|------------------|----------------|
| 1 N.O. mounts on righthand side of switch | CDNF16D - CDNF100D | 0.07 | 10 | 600 | CDAUX10 |
| 1 N.C. mounts on lefthand side of switch | | 0.07 | 10 | 600 | CDAUX01 |
| 1 N.O. + 1 N.C. mounts on left or right hand side of switch | | 0.07 | 10 | 600 | CDAUX11 |

Max. two contacts on each side of switch

Non-Fused

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 ^② | CDNF16D, CDNF25D, CDNF32D | 0.07 | 40 | 600 | CDS32D |
| | CDNF45D, CDNF63D | 0.13 | 80 | 600 | CDS63D |
| | CDNF30D, CDNF60D, CNDNF100D | 0.20 | 100 | | CDS100D |
| Late-break/early-make ^② | CDNF16D, CDNF25D, CDNF32D | 0.07 | 40 | 600 | CDL32D |
| | CDNF45D, CDNF63D | 0.13 | 80 | 600 | CDL63D |
| | CDNF30D, CDNF60D, CNDNF100D | 0.20 | 100 | | CDL100D |

Enclosed Fused

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 ^② | CDNF16D, CDNF25D, CDNF32D | 0.07 | 40 | 600 | CDN32D |
| | CDNF45D, CDNF63D | 0.13 | 80 | 600 | CDN63D |
| | CDNF30D, CDNF60D, CNDNF100D | 0.20 | 100 | | CDN100D |
| Detachable neutral ^② | CDNF16D, CDNF25D, CDNF32D | 0.07 | 40 | 600 | CDD32D |
| | CDNF45D, CDNF63D | 0.13 | 80 | 600 | CDD63D |
| | CDNF30D, CDNF60D, CNDNF100D | 0.20 | 100 | | CDD100D |
| Ground terminal ^② | CDNF16D, CDNF25D, CDNF32D | 0.07 | 40 | 600 | CDE32D |
| | CDNF45D, CDNF63D | 0.13 | 80 | 600 | CDE63D |
| | CDNF30D, CDNF60D, CNDNF100D | 0.20 | 100 | | CDE100D |

Enclosed Non-Fused

① UL File # E83510

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

for 16A – 100A Non-Fusible Disconnect Switches

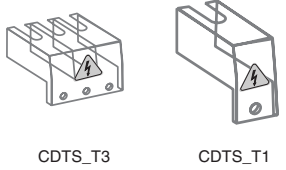
Door Mounted

Fusible

Non-Fused

Enclosed Fused

Enclosed Non-Fused



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

| Description | For use on: | Weight (lbs) | Catalog number |
|--|--------------------|--------------|-----------------------------------|
| 3 pole includes one shroud for line or load side | CDNF16D, 25D, 32D | 0.02 | CDTS32T3 CDTS63T3 CDTS100T3 |
| | CDNF45D & 63D | 0.02 | |
| | CDNF30D, 60D, 100D | 0.02 | |
| 4 pole includes one shroud for line or load side | CD_32D | 0.02 | CDTS32T1 CDTS63T1 CDTS100T1 |
| | CD_63D | 0.02 | |
| | CD_100D | 0.02 | |

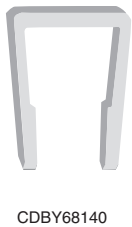
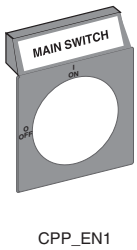
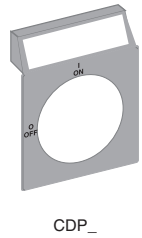
* All disconnects are IP20 touch safe as standard. Terminal shrouds provide an additional level of protection.

Legend plates for selector handles

| Description | For use on: | Catalog number |
|--------------------------------|---|----------------|
| Blank plate | CDH15, 25, 75, 85, 115, 125 155, 165, 175, 185, 195, 205 | CDPB1 |
| | | CDPY1 |
| | CDH35, 45, 55, 65, 95 105, 135, 145 | CDPB2 |
| | | CDPY2 |
| Plate marked with: MAIN SWITCH | CDH15, 25, 75, 85, 115, 125 155, 165, 175, 185, 195, 205 | CDPB1EN1 |
| | | CDPY1EN1 |
| | CDH35, 45, 55, 65, 95 105, 135, 145 | CDPB2EN1 |
| | | CDPY2EN1 |

Locking clip (replacement part)

| Description | For use on: | Catalog number |
|--|-------------------------------|----------------|
| Door mounted switch handle locking clip | CDNF16D CDNF25D CDNF32D | CDBY68140 |



Non-Fusible Disconnect Switches

For a complete assembly, please select one of each:

- 1 switch
- 1 handle
- 1 shaft



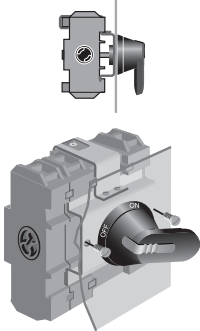
CDNF160



BDS210



BDH60



CDNF160D



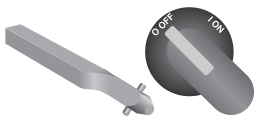
BDH60



BDH61



BDS_



BDST_

125 Amp Base & DIN rail mounted switches^①, 600V

| UL general purpose amp rating | IEC AC21 amp rating | Maximum horsepower rating | | | | | Terminal lugs | | Catalog number |
|-------------------------------|---------------------|---------------------------|------|------|------|------|---------------|-----------|----------------|
| | | Three phase | | | | | Wire size | Wire type | |
| | | 200V | 208V | 240V | 480V | 600V | | | |
| 2 pole 125 | 160 | — | — | — | — | — | #8 – 1/0 | Cu | CDNF160-2 |
| 3 pole 125 | 160 | 30 | 30 | 30 | 60 | 75 | #8 – 1/0 | Cu | CDNF160 |

125 Amp Door mounted switch^①, 600V, 3 pole

| UL general purpose amp rating | IEC AC21 amp rating | Maximum horsepower rating | | | | | Terminal lugs | | Catalog number |
|-------------------------------|---------------------|---------------------------|------|------|------|------|---------------|-----------|----------------|
| | | Three phase | | | | | Wire size | Wire type | |
| | | 200V | 208V | 240V | 480V | 600V | | | |
| 125 | 160 | 30 | 30 | 30 | 60 | 75 | #8 – 1/0 | Cu | CDNF160D |

Pistol handles — for use with □ .24 x .24" (□ 6 x 6 mm)

| NEMA type | IEC type | Color | Length in/mm | Marking | Defeat-able | Padlock-able | 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, 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 □ .24 x .24" (□ 6 x 6 mm)

| Shaft length inches/mm | | Mounting depth ^② in inches | Weight (lbs) | Catalog 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° □ .24 x .24" (□ 6 x 6 mm)

| Shaft length inches/mm | | Mounting depth ^② in inches | Weight (lbs) | Catalog 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

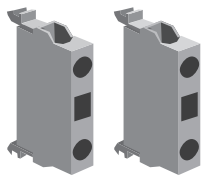
for 125A Non-Fusible Disconnect Switches

Fusible

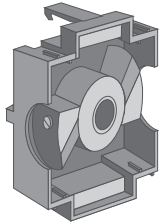
Non-Fused

Enclosed Fused

Enclosed Non-Fused



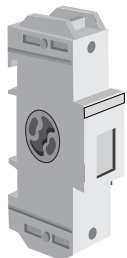
CDAUXCA10 CDAUXCA01



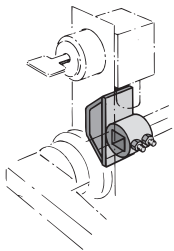
CDAUXB160



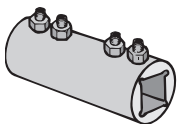
CDAUX16011 CDMB160



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. 1 N.C. | CDNF160 | 0.07 | 10 10 | 600 600 | CDAUXCA10 CDAUXCA01 |
| 1 N.O. gold plated ^① 1 N.C. gold plated ^① | CDNF160 | 0.07 | 10 10 | 600 600 | CDEA-10AU 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^②

| 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 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 |
|--|-------------------|--------------|----------------|
| Cam attachment 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 for 12mm shafts | 0.26 0.26 | BDZX167 BDZX95 |

^① Type _AU for low energy applications. The contacts are gold-plated. AC & DC ratings — Maximum: A600 & P600. Minimum: 12V, 1mA; 5V, 2mA

^② Required if several contact blocks are used in the same installation.

for 125A Non-Fusible Disconnect Switches



Conversion mechanisms

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

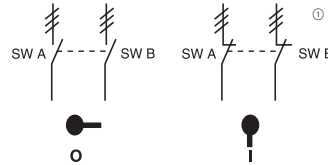
| Description | For use on: | Weight (lbs.) | Catalog number |
|----------------------|-------------|---------------|----------------|
| 6 or 8 pole | CDNF160 | 1.52 | BDZW2 |
| Transfer (1, 3R, 12) | | 2.20 | BDZW1 |
| Transfer (4X) | | 2.20 | BDZW1X |
| Mechanical interlock | | 0.55 | CDZW10 |

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



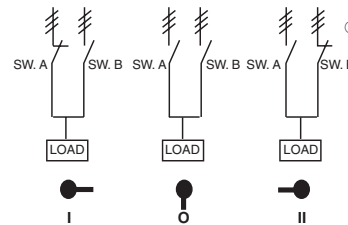
| | POS. O | POS. I |
|-------|--------|--------|
| SW. A | O | X |
| SW. B | O | X |

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 |

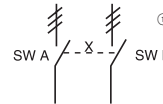
X = Closed
O = Open

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 POS. I | SW. B 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 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 ** re-use original set screw ** | CDNF160 | 0.05 | CXBY68100 |
| Replaces original red knob for locking shaft in place ** re-use original set screw ** | CDNF160 | 0.05 | CDMC2 |

① ≡ = Three poles

Fusible

Non-Fused

Enclosed Fused

Enclosed Non-Fused

for Non-Fusible Disconnect Switches

For a complete assembly, please select one of each:

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



BDNF200A



BDS240



BDH110



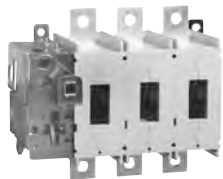
BDTL25

Fusible

Non-Fused

Enclosed Fused

Enclosed Non-Fused



BDNF175A



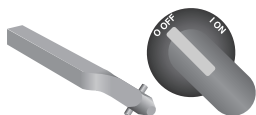
BDH108



BDH109



BDS__



CDS340T

175 – 200 Amp switches, 600V

| UL general purpose amp rating | IEC AC21 Amp rating | Maximum horsepower rating | | | | | Catalog number |
|-------------------------------|---------------------|---------------------------|------|------|------|------|----------------|
| | | Three phase | | | | | |
| | | 200V | 208V | 240V | 480V | 600V | |
| 2 pole | | | | | | | |
| 175 | 250 | — | — | — | — | — | BDNF175A2 |
| 200 | 250 | — | — | — | — | — | BDNF200A2 |
| 3 pole | | | | | | | |
| 175 | 250 | 30 | 30 | 40 | 75 | 100 | BDNF175A |
| 200 | 250 | 60 | 60 | 75 | 150 | 200 | BDNF200A |
| 4 pole | | | | | | | |
| 175 | 250 | 30 | 30 | 40 | 75 | 100 | BDNF175A4 |
| 200 | 250 | 60 | 60 | 75 | 150 | 200 | BDNF200A4 |

Pistol handles — for use with shafts □ .31 x .31" (□ 8 x 8mm)

| NEMA type | IEC type | Color | Length mm | Marking | Defeatable | Padlockable | Weight (lbs) | Catalog number |
|--------------|----------|------------|-----------|--------------|------------|-------------|--------------|----------------|
| 1,3R,12 | IP65 | Black | 2.6/65 | O/I & Off/On | Yes | Yes | 0.29 | BDH108 |
| 1,3R,12 | IP65 | Red/Yellow | 2.6/65 | O/I & Off/On | Yes | Yes | 0.29 | BDH109 |
| 1,3R,12 | IP65 | Black | 3.1/80 | O/I & Off/On | Yes | Yes | 0.30 | BDH110 |
| 1,3R,12 | IP65 | Red/Yellow | 3.1/80 | O/I & Off/On | Yes | Yes | 0.30 | BDH111 |
| 1,3R,4,4X,12 | IP66 | Black | 3.1/80 | O/I & Off/On | Yes | Yes | 0.30 | CDHXB88 |
| 1,3R,4,4X,12 | IP66 | Red/Yellow | 3.1/80 | O/I & Off/On | Yes | Yes | 0.30 | CDHXY88 |

Shafts — for use with pistol handles □ .31 x .31" (□ 8 x 8mm)

| Shaft length inches/mm | Mounting depth ^① in inches BDNF175A – BDNF200A | Weight (lbs) | Catalog number |
|------------------------|---|--------------|----------------|
| 5.5/140 | 4.7 – 8.7 | 0.15 | BDS140 |
| 9.5/240 | 8.7 – 12.6 | 0.26 | BDS240 |
| 13.4/340 | 12.6 – 16.6 | 0.36 | BDS340 |
| 19.5/500 | 18.9 – 22.9 | 0.54 | BDS500 |

Twisted shafts — Rotates handle 45° □ .31 x .31" (□ 8 x 8mm)

| Shaft length inches/mm | Mounting depth ^① in inches BDNF175A – BDNF200A | Weight (lbs) | Catalog number |
|------------------------|---|--------------|----------------|
| 13.4/340 | 12.6 – 16.6 | 0.36 | CDS340T |

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 Availability to be announced.

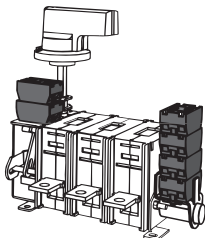
for 175A – 200A Non-Fusible Disconnect Switches



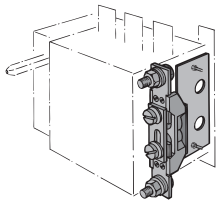
BDTL25



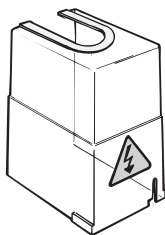
BDTL175



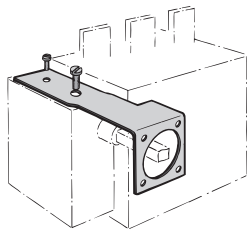
BDAUX12, 13



BDZX129



BDTS2



BDZX131

Terminal lug kits

| For use on: | Wire size | Kit weight (lbs.) | Wire type | Terminal lugs per kit | Catalog number |
|---------------------|----------------|-------------------|-----------|-----------------------|----------------|
| BDNF175A & BDNF200A | #6 – 300 kcmil | 0.93 | Cu/Al | 6 | BDTL25 |
| | #6 – 300 kcmil | 0.47 | Cu/Al | 3 | BDTL253P |
| | *(6) #14 – 6 | 0.55 | Cu/Al | 3 | BDTL175 |

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

Auxiliary contacts®

| Description* | For use on: | Weight (lbs) | AC thermal amp rating | AC rated voltage | Catalog number |
|-----------------|----------------------|--------------|-----------------------|------------------|----------------|
| 1 N.O. + 1 N.C. | BDNF175A BDNF200A | 0.09 | 10 | 600 | BDAUX12 |
| 2 N.O. + 2 N.C. | | 0.18 | 10 | 600 | BDAUX13 |
| 4 N.O. + 4 N.C. | | 0.35 | 10 | 600 | BDAUX16 |
| 2 N.O. | | 0.09 | 10 | 600 | BDAUX14 |
| 4 N.O. | | 0.18 | 10 | 600 | BDAUX15 |
| 8 N.O. | | 0.35 | 10 | 600 | BDAUX17 |

*Contact configuration when mounted on switch, not shelf state.

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 | BDNF175A BDNF200A | 0.84 | 200 | 600 | BDZX129 |

Terminal shrouds

| Description | For use on: | Weight (lbs) | | | Catalog number |
|--|----------------------|--------------|--|--|----------------|
| Includes one set of 3 shrouds for use on line or load side | BDNF175A BDNF200A | 0.40 | | | BDTS2 |

Handle support bracket

| Description | For use on: | Weight (lbs) | | | Catalog number |
|--|----------------------|--------------|--|--|----------------|
| Allows handle to be directly mounted to switch behind the door | BDNF175A BDNF200A | 0.33 | | | BDZX131 |

① UL File E57057 _____

Fusible

Non-Fused

Enclosed Fused

Enclosed Non-Fused

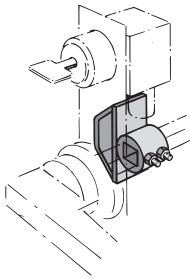
for 175A – 200A Non-Fusible Disconnect Switches

Fusible

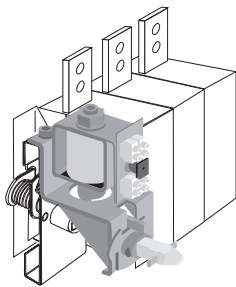
Non-Fused

Enclosed Fused

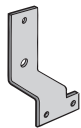
Enclosed Non-Fused



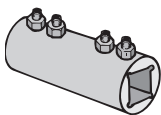
CDETL-ZW16



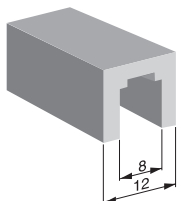
CDETL-ZT 80A



CDETL-ZT140



BDZW95

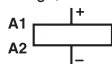


CDZT123

Locking accessories

| Description | For use on: | Weight (lbs.) | Catalog number |
|--|---------------------|---------------|--------------------------------|
| Cam attachment 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 |
| Electrical interlock ⓐ 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 U = 0.7 – 1.1 Un (U = coil voltage, Un = nominal voltage) | BDNF175A – BDNF200A | 2.42 | CDETL-ZT80A/★ CDETL-ZT80L/★ |
| Mounting bracket | BDNF175A – BDNF200A | 0.35 | CDETL-ZT140 |

★ - Coil voltage



Shaft extension coupler

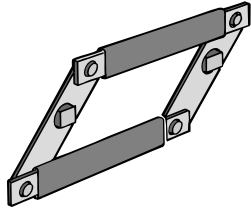
| Description | For use on: | Weight (lbs.) | Catalog number |
|--|-------------|---------------|----------------|
| Joins two shafts together for applications where extended length is required | 12mm shafts | 0.26 | BDZW95 |

Shaft adapter

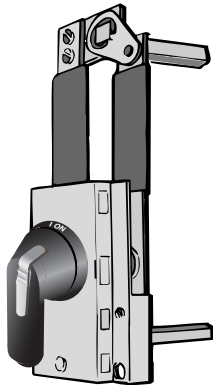
| Description | For use on: | Weight (lbs.) | Catalog number |
|---|-------------|---------------|----------------|
| Adapts one end of an 8mm shaft to a 12mm shaft. Use with shaft extension coupler. | 8mm shafts | 0.20 | CDZT123 |

ⓐ CDETL-ZT140 mounting bracket required.

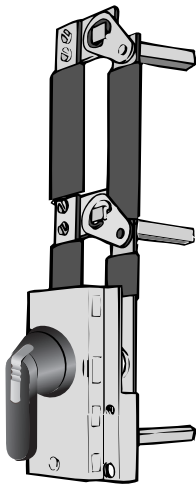
for 175A – 200A Non-Fusible Disconnect Switches



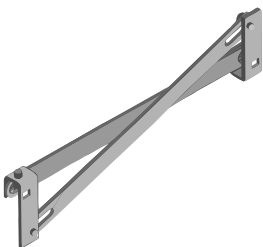
BDZW18



BDZW20



BDZW21



BDZW19

Conversion mechanisms

- Switches are not included

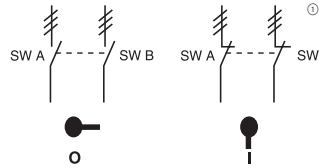
| Description | For use on: | Weight (lbs) | Catalog number |
|-----------------------------|----------------------|--------------|----------------|
| 6 or 8 pole Transfer Bypass | BDNF175A BDNF200A | 1.61 | BDZW18 |
| | | 6.17 | BDZW20 |
| | | 6.17 | BDZW20X |
| | | 7.27 | BDZW21 |
| | | 7.27 | BDZW21X |
| Mechanical interlock | | 4.41 | BDZW19 |

6 or 8 pole — BDZW18

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 — BDZW20

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

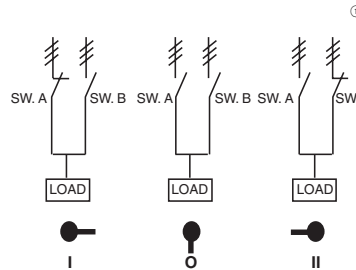
A 3-position handle is included:

(Type 1, 3R, 12) or

(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 — BDZW21

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

A 3-position handle is included:

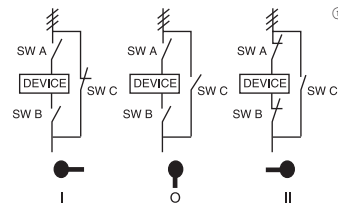
(Type 1, 3R & 12) or

(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 — BDZW19

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

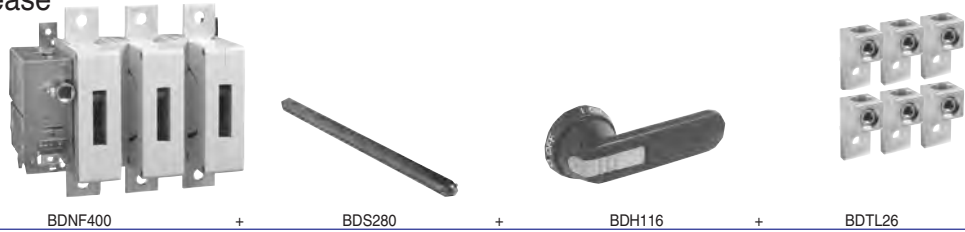
X = Closed
O = Open

① ≡ = Three poles

Non-Fusible Disconnect Switches

For a complete assembly, please select one of each:

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



Fusible

Non-Fused

Enclosed Fused

Enclosed Non-Fused



BDNF600A



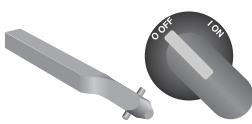
BDNF800A



BDH112-117



BDS280



BDS_45

400 – 800 Amp switches, 600V

| UL general purpose amp rating | IEC AC21 amp rating | Maximum horsepower rating | | | | | Catalog number |
|-------------------------------|---------------------|---------------------------|------|------|------|------|------------------------------------|
| | | 200V | 208V | 240V | 480V | 600V | |
| 2 pole | | | | | | | |
| 400 | 630 | — | — | — | — | — | BDNF4002 BDNF600A2 BDNF800A2 |
| 600 | 800 | — | — | — | — | — | |
| 800 | 1250 | — | — | — | — | — | |
| 3 pole | | | | | | | |
| 400 | 630 | 100 | 100 | 125 | 250 | 350 | BDNF400 BDNF600A BDNF800A |
| 600 | 800 | 150 | 150 | 200 | 400 | 500 | |
| 800 | 1250 | 200 | 200 | 250 | 500 | 600 | |
| 4 pole | | | | | | | |
| 400 | 630 | 100 | 100 | 125 | 250 | 350 | BDNF4004 BDNF600A4 BDNF800A4 |
| 600 | 800 | 150 | 150 | 200 | 400 | 500 | |
| — | 1250 | 200 | 200 | 250 | 500 | 600 | |

Pistol handles — for use with shafts □ .47 x .47" (□ 12 x 12 mm)

| NEMA type | IEC type | Color | Length in/mm | Marking | Defeatable | Padlockable | Weight (lbs) | Catalog 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 □ .47 x .47" (□ 12 x 12 mm)

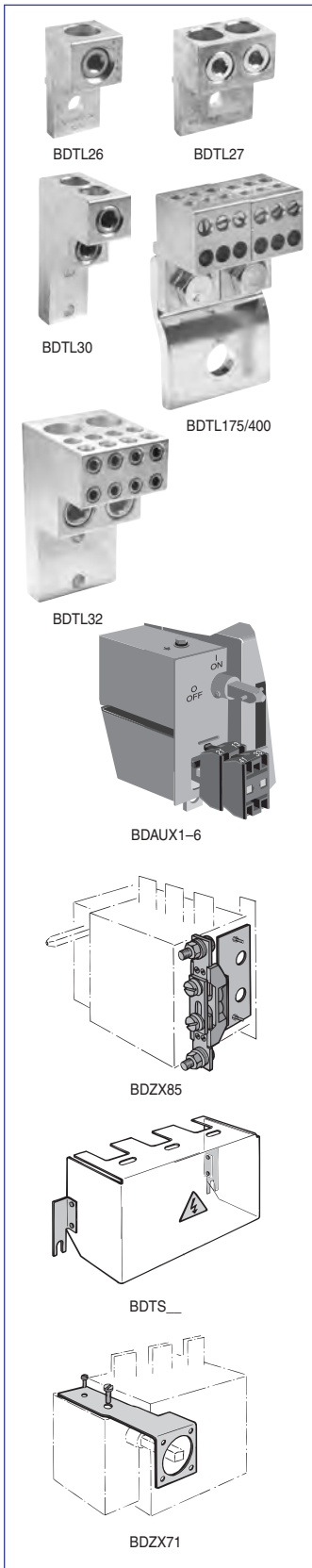
| Shaft length inches/mm | Mounting depth ^① in inches | Weight (lbs) | Catalog number |
|------------------------|---------------------------------------|--------------|----------------|
| 11.0/280 | 10.2 – 14.5 | 0.77 | BDS280 |
| 12.8/325 | 12.0 – 16.3 | 0.90 | BDS325 |
| 15.6/395 | 14.8 – 19.1 | 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 12 mm)

| Shaft length inches/mm | Mounting depth ^① in inches | Weight (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 – 21.9 | 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.

for 400A – 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 |
|---------------------------------|---------------------------|-------------------|-----------|-----------------------|--------------------|
| BDNF400 | #2 – 600 kcmil | 3.50 | Cu/Al | 6 | BDTL26 |
| BDNF400 | (2) #2 – 500 kcmil | 4.62 | Cu/Al | 6 | BDTL262 |
| BDNF600A | (2) #2 – 600 kcmil | 4.62 | Cu/Al | 6 | BDTL27 |
| BDNF800A | (2) #2 – 600 kcmil | 6.90 | Cu/Al | 6 | BDTL30 |
| BDNF800A ^① | (8) 2/0 + (2)#2 600 kcmil | 6.90 | Cu/Al | 3 | BDTL32 |
| BDNF400 – BDNF600A ^① | (12) #14 – 6 | 1.10 | Cu/Al | 6 | BDTL175/400 |

Auxiliary contacts^②

| Description | For use on: | Weight (lbs) | AC thermal amp rating | AC rated voltage | Catalog number |
|-----------------|-----------------------|--------------|-----------------------|------------------|----------------|
| 1 N.O. + 1 N.C. | BDNF400 – 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 | BDNF400 – BDNF600A | 1.04 | 400 | 600 | BDZX85 |

Terminal shrouds

| Description | For use on: | Weight (lbs) | Catalog number |
|---|-------------|--------------|----------------|
| Includes one shroud for line or load side | BDNF400 | 0.62 | BDTS4 |
| | BDNF600A | 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 | BDNF400 – BDNF600A | 0.51 | BDZX73 |
| | BDNF800A | 0.88 | BDZX71 |

^① A load side distribution lug eliminates the need to purchase, install and wire a separate distribution block.

^② UL File E57057

Fusible

Non-Fused

Enclosed Fused

Enclosed Non-Fused

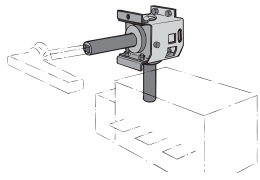
for 400A – 800A Non-Fusible Disconnect Switches

Fusible

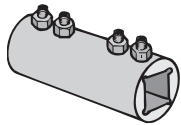
Non-Fused

Enclosed Fused

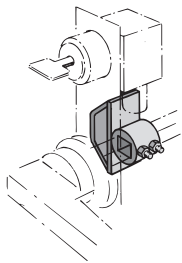
Enclosed Non-Fused



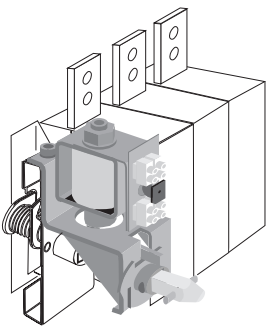
BDZX108



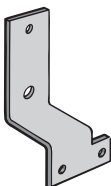
BDZW95



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 | BDNF400 BDNF600A BDNF800A | 4.63 | BDZX108 |

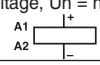
Shaft extension coupler

| 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 |
|--|---------------------------------|--------------|--------------------------------|
| Cam attachment 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 |
| Electrical interlock ^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 U = 0.7 – 1.1 Un (U = coil voltage, Un = nominal voltage) | BDNF400 BDNF600A BDNF800A | 2.42 | CDETL-ZT80A/★ CDETL-ZT80L/★ |
| Mounting bracket | BDNF400 BDNF600A | 0.40 | CDETL-ZT100 |

★ – Coil voltage



① CDETL-ZT100 mounting bracket required for BDNF400 & BDNF600A

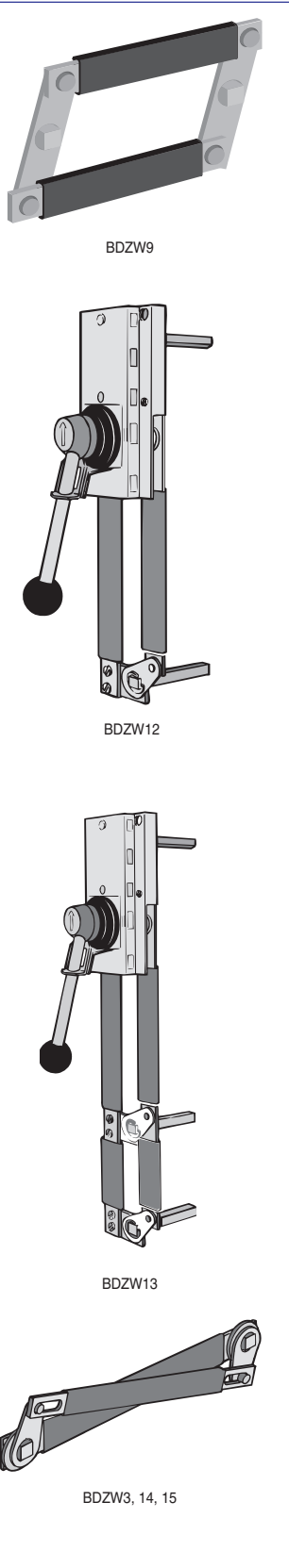
for 400A – 800A Non-Fusible Disconnect Switches

Fusible

Non-Fused

Enclosed Fused

Enclosed Non-Fused



Conversion mechanisms

- Switches are not included

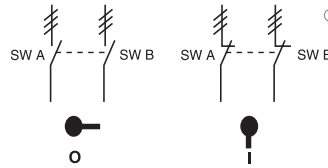
| Description | For use on: | Weight (lbs) | Catalog number |
|-----------------------------|---------------------------------|--------------|----------------|
| 6 or 8 pole Transfer Bypass | BDNF400 BDNF600A BDNF800A | 2.42 | BDZW9 |
| | | 10.1 | BDZW12 |
| | | 8.81 | BDZW13 |
| Mechanical interlock | BDNF400 BDNF600A BDNF800A | 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 |

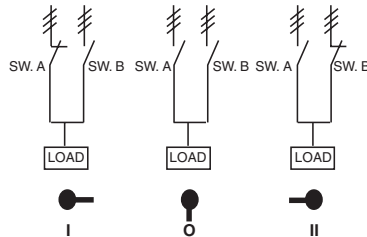
X = Closed
O = Open

Transfer — BDZW12

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

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 |

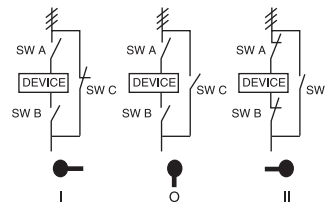
X = Closed
O = Open

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 |

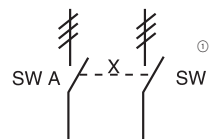
X = Closed
O = Open

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

X = Closed
O = Open

⊙ = Three poles

Non-Fusible Disconnect Switches

For a complete assembly please select one of each:

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



BDNF1200



BDS280



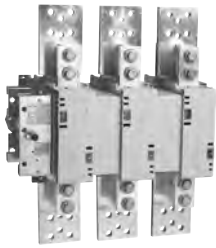
BDH117



BDTL28

Fusible

Non-Fused



BDNF1600
BDNF2000
BDNF3150



BDH114



BDH115



BDH8



BDS325

Enclosed Fused

Enclosed Non-Fused

1200 – 3150 Amp switches, 600V

| UL general purpose amp rating | IEC AC21 amp rating | Maximum horsepower rating | Catalog number |
|-------------------------------|---------------------|---------------------------|---|
| | | | <p>2 pole</p> <p>1200 1600 2000 —</p> <p>3 pole</p> <p>1200 1600 2000 —</p> <p>4 pole</p> <p>— — — —</p> |

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

| NEMA type | IEC type | Color | Length mm | Marking | Defeatable | Padlockable | Weight (lbs) | Catalog number |
|-------------------------------------|----------|------------|-----------|--------------|------------|-------------|--------------|----------------|
| For use with BDNF1200 | | | | | | | | |
| 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 |
| For use with BDNF1600 – 3150 | | | | | | | | |
| 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 inches/mm | Mounting depth [Ⓢ] in inches | Weight (lbs) | Catalog number |
|-------------------------------------|---------------------------------------|--------------|----------------|
| For use with BDNF1200 | | | |
| 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 |
| For use with BDNF1600 – 3150 | | | |
| 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 |

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

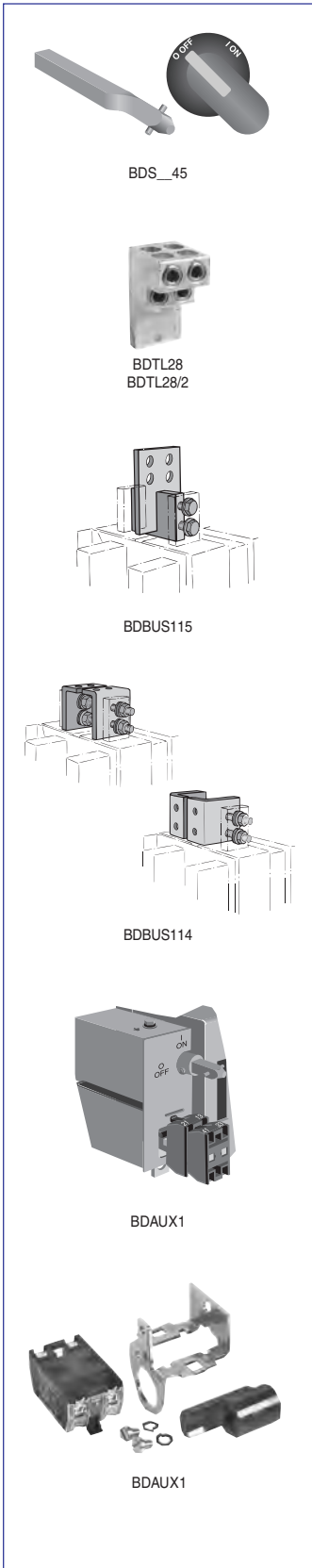
for 1200A – 3150A Non-Fusible Disconnect Switches

Fusible

Non-Fused

Enclosed Fused

Enclosed Non-Fused



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

| Shaft length inches/mm | Mounting depth ^① inches | Weight (lbs) | Catalog number |
|-------------------------------------|---------------------------------------|-----------------|-------------------|
| For use with BDNF1200 | | | |
| 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 |
| For use with BDNF1600 – 3150 | | | |
| 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 size | Kit weight (lbs.) | Wire type | Terminal lugs per kit | Kit catalog number |
|----------------------------------|---------------------------|----------------------|--------------|--------------------------|-----------------------|
| BDNF1200 & BDNF1600 | (4) #2 – 600kcmil | 10.44 | Cu/Al | 6 | BDTL28 |
| BDNF1200 & BDNF1600 ^② | (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 (lbs) | Catalog number |
|--|------------------------|-----------------|-------------------|
| Vertical mounting ^③ | BDNF1600 – BDNF3150 | 46.2 | BDBUS115 |
| Vertical, back or edgewise mounting | | 31.0 | BDBUS114 |

Auxiliary contacts^④

| Description | For use on: | Weight (lbs) | AC thermal amp rating | AC rated voltage | Catalog number |
|-----------------|------------------------|-----------------|--------------------------|---------------------|-------------------|
| 1 N.O. + 1 N.C. | BDNF1200 – 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 (lbs) | Catalog number |
|--|-------------|-----------------|-------------------|
| Includes one shroud 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.

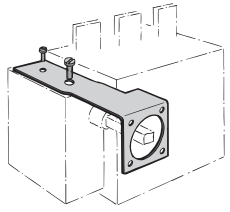
for 1200A – 3150A Non-Fusible Disconnect Switches

Fusible

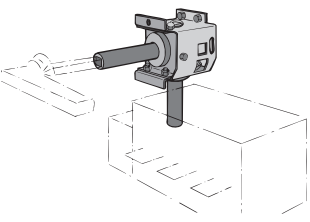
Non-Fused

Enclosed Fused

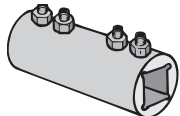
Enclosed Non-Fused



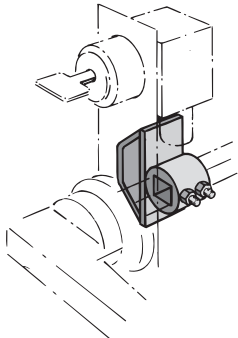
BDZX71



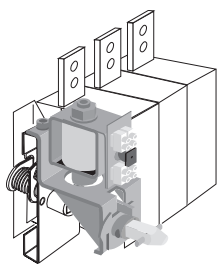
BDZX90



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 |

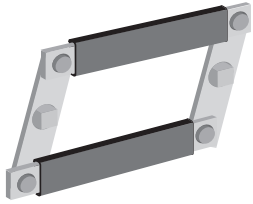
Locking accessories

| Description | For use on: | Weight (lbs) | Catalog number |
|---|---------------------|--------------|--------------------------------|
| Cam attachment 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 |
| Electrical interlock 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 U = 0.7 – 1.1 Un (U= coil voltage, Un = nominal voltage) | BDNF1200 – BDNF3150 | 2.42 | CDETL-ZT80A/★ CDETL-ZT80L/★ |

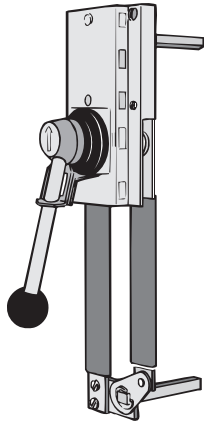


★ = Coil voltage

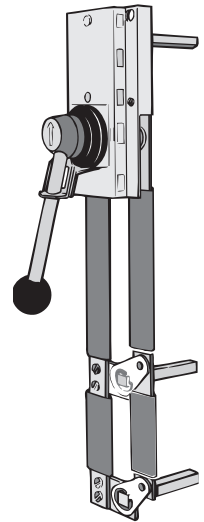
for 1200A – 3150A Non-Fusible Disconnect Switches



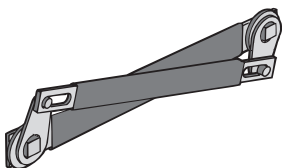
BDZW9



BDZW12



BDZW13



BDZW15

Conversion mechanisms

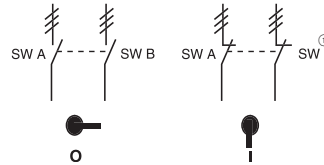
- Switches are not included

| Description | For use on: | Weight (lbs) | Catalog number |
|-----------------------------|---------------------|--------------|---------------------------|
| 6 or 8 pole Transfer Bypass | BDNF1200 | 2.42 | BDZW9 BDZW12 BDZW13 |
| | | 10.1 | |
| | | 8.81 | |
| 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 |

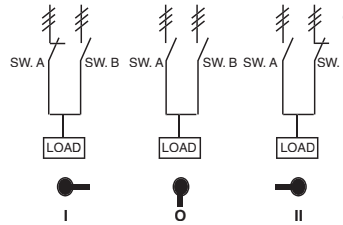
X = Closed
O = Open

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 |

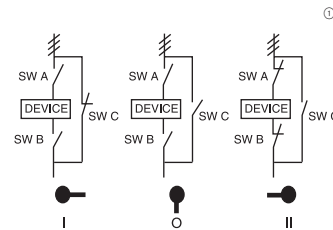
X = Closed
O = Open

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 |

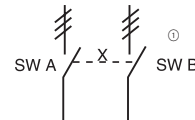
X = Closed
O = Open

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

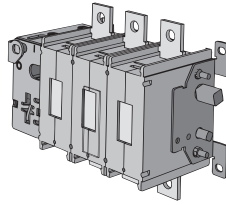
X = Closed
O = Open

① ≡ Three poles

30A – 800A^{①②}

For a complete assembly, please select one of each:

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



BDFLNF200A-S



BDS240



BDH110SH

Fusible

Non-Fused

Enclosed Fused

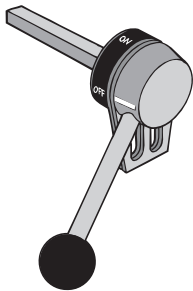
Enclosed Non-Fused



BDFLNF30-S



BDH107SH



BDZX74



CDS67P
BDS240
BDS325



BDTL24



BDTL25



BDTL26



BDTL27

Side operated switches – 3 pole

| UL general purpose amp rating | IEC AC21 amp rating | Maximum horsepower rating | | | | | Weight (lbs) | Catalog 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 type | Color | Length inches/mm | Marking | Defeatable | Padlockable | Weight (lbs) | Catalog number |
|--|------------|------------------|--------------|------------|-------------|--------------|----------------|
| For use with BDFLNF30-S | | | | | | | |
| 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 |
| For use with BDFLNF60-S — BDFLNF200A-S | | | | | | | |
| 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 |
| For use with BDFLNF400-S — BDFLNF600A-S | | | | | | | |
| 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 inches/mm | Description | Weight (lbs) | Catalog 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

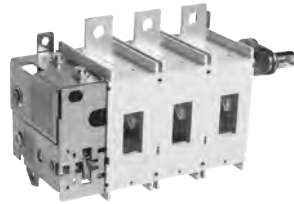
| For use on: | Wire size | Weight (lbs) | Wire type | Lugs per kit | Catalog number |
|--------------|--------------------|--------------|-----------|--------------|----------------|
| BDFLNF30-S | #14 – 4 | — | Cu | — | Integral |
| BDFLNF60-S | #14 – 4 | — | Cu | — | Integral |
| BDFLNF100-S | #14 – 2/0 | 0.43 | Cu/Al | 6 | BDTL24 |
| BDFLNF175-S | #6 – 300 kcmil | 0.93 | Cu/Al | 6 | BDTL25 |
| 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.

30A – 200A

For a complete assembly, please select one of each:

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



BDFLN200A-F



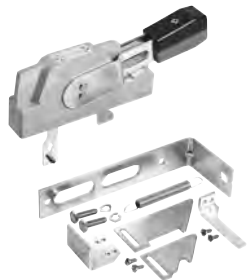
BDFHS12



BDFHNHS12



BDTL25



BDFHNHS12



BDFHS12



BDTL24



BDTL25

UL Listed
CSA Approved
IEC Rated
CE Marked

Flange operated switches – 3 pole

| UL general purpose amp rating | IEC AC21 amp rating | Maximum horsepower rating | | | | | Weight (lbs) | Catalog number |
|-------------------------------|---------------------|---------------------------|------|------|------|------|--------------|----------------|
| | | Three phase | | | | | | |
| | | 200V | 208V | 240V | 480V | 600V | | |
| 30 | 40 | 10 | 10 | 10 | 20 | 30 | 2.80 | BDFLN30-F |
| 60 | 63 | 20 | 20 | 20 | 40 | 40 | 3.90 | BDFLN60-F |
| 100 | 115 | 25 | 25 | 25 | 50 | 40 | 4.50 | BDFLN100-F |
| 200 | 250 | 60 | 60 | 75 | 150 | 200 | 6.61 | BDFLN200A-F |

Flange handles

| NEMA/UL type | Color | Length inches/mm | Marking | Defeatable | Padlockable | Weight (lbs) | Catalog 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 inches | Weight (lbs) | Catalog number |
|---------------------|--------------|----------------|
| 12 | 0.39 | BDFHS12 |
| 17 | 0.55 | BDFHS17 |
| 22.5 | 0.73 | BDFHS22 |

Terminal lug kits

| For use on: | Wire size | Kit weight (lbs) | Wire type | Terminal lugs per kit | Catalog number |
|-------------|----------------|------------------|-----------|-----------------------|----------------|
| BDFLN30-F | #14 – #4 | — | Cu | — | Standard |
| BDFLN60-F | #14 – #4 | — | Cu | — | BDTL24 |
| BDFLN100-F | #14 – 2/0 | — | Cu | — | BDTL25 |
| BDFLN200A-F | #6 – 300 kcmil | 0.93 | Cu/Al | 6 | BDTL25 |

Door hardware – NEMA 12

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

Fusible

Non-Fused

Enclosed Fused

Enclosed Non-Fused

for Non-Fusible Disconnect Switches
CDNF16 – CDFN160

UL & CSA

| Catalog number | 3 pole | CDNF16 | CDNF25 | CDNF32 | CDNF45 | CDNF63 | CDNF30 | CDNF60 | CDNF100 | CDNF160 |
|---|----------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|---------------------------------|---------------------------------|---------------------------------|--|
| Approvals ^① | 2 pole 3 pole 4 pole | N/A UL508 & IEC UL508 & IEC | N/A UL508 & IEC UL508 & IEC | N/A UL508 & IEC UL508 & IEC | N/A UL508 & IEC UL508 & IEC | N/A UL508 & IEC UL508 & IEC | N/A UL98 & IEC UL98 & IEC | N/A UL98 & IEC UL98 & IEC | N/A UL98 & IEC UL98 & IEC | UL98 & IEC UL98 & IEC UL98 & IEC |
| General purpose amp rating pf = 0.7 – 0.8 | -40° to 40°C A | 16 | 25 | 40 | 60 | 80 | 30 | 60 | 100 | 125 |
| Max. operating voltage | V | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 |
| Max. horsepower rating/motor FLA current, pf = 0.4 – 0.5 | | | | | | | | | | |
| Three phase | 200V – 208V HP/A | 3/10.6 | 7.5/24.2 | 10/30.8 | 15/46.2 | 20/60.0 | 10/30.8 | 20/60.0 | 25/75.0 | 30/88.0 |
| | 240V HP/A | 5/15.2 | 7.5/22.0 | 10/28.0 | 15/42.0 | 20/54.0 | 10/28.0 | 20/54.0 | 25/68.0 | 30/80.0 |
| | 480V HP/A | 10/14.0 | 15/21.0 | 20/27.0 | 30/40.0 | 40/52.0 | 20/27.0 | 40/52.0 | 50/65.0 | 60/77.0 |
| | 600V HP/A | 10/11.0 | 20/22.0 | 25/27.0 | 20/22.0 | 40/41.0 | 30/32.0 | 40/41.0 | 40/41.0 | 75/77.0 |
| Single phase | 120V HP/A | 0.5/9.8 | 0.75/13.8 | 1/16.0 | 2/24.0 | 2/24.0 | 2/24.0 | 3/34.0 | 5/56.0 | 7.5/80 |
| | 240V HP/A | 1.5/10.0 | 2/12.0 | 3/17.0 | 5/28.0 | 5/28.0 | 5/28.0 | 7.5/40.0 | 15/68.0 | 20/88.0 |
| Short circuit rating with fuse | | | | | | | | | | |
| Fuse type CC | kA | 10 | 10 | 10 | — | — | — | — | — | — |
| Fuse type J | kA | 10 | 10 | 10 | 10 | 100 | — | 50 | 50 | 100 |
| Fuse type T | kA | 10 | 10 | 10 | 10 | 100 | — | 50 | 50 | — |
| Fuse type RK1 | kA | 10 | — | 10 | — | — | — | — | — | — |
| Fuse type RK5 | kA | 5 | 5 | 5 | 5 | — | 5 | — | — | — |
| Fuse type L | kA | — | — | — | — | — | — | — | — | — |
| Fuse type H | kA | — | — | — | — | 5 | — | — | — | — |
| Fuse size | A | 30 | 60 | 30 | 60 | 100 | 150 | 60 | 100 | 200 |
| Short circuit rating with MCCB | kA | — | — | — | — | — | — | — | — | 25 |
| Endurances | | | | | | | | | | |
| Min. Electrical endurance, pf = 0.75 – 0.80 | operation cycles | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 |
| Min. Electrical endurance, 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 lb | 0.24 | 0.24 | 0.24 | 0.59 | 0.59 | 0.79 | 0.79 | 0.79 | 2.42 |
| | 4 pole lb | 0.33 | 0.33 | 0.33 | 0.77 | 0.77 | 1.10 | 1.10 | 1.10 | 2.86 |
| Dimension, switches | 3 pole H in | 2.68 | 2.68 | 2.68 | 3.60 | 3.60 | 3.94 | 3.94 | 3.94 | 5.00 |
| | W in | 1.38 | 1.38 | 1.38 | 2.07 | 2.07 | 2.76 | 2.76 | 2.76 | 4.96 |
| | D in | 2.20 | 2.20 | 2.20 | 2.85 | 2.85 | 2.95 | 2.95 | 2.95 | 2.93 |
| Shaft size — square □ | in | .20 x .20 | .20 x .20 | .20 x .20 | .20 x .20 | .20 x .20 | .20 x .20 | .20 x .20 | .20 x .20 | .24 x .24 |
| | mm | 5 x 5 | 5 x 5 | 5 x 5 | 5 x 5 | 5 x 5 | 5 x 5 | 5 x 5 | 5 x 5 | 6 x 6 |
| Switch operating torque for 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 | | | | | | | | | | |
| 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 | | | | | | | | | | |
| 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 CSA Approved.
② UL98 overload test, 50 operations, pf 0.40 – 0.50 at 2x FLA.

for Non-Fusible Disconnect Switches
BDNF175 – BDNF3150

UL & CSA

| Catalog number | 3 pole | BDNF175 | BDNF200A | BDNF400 | BDNF600A | BDNF800A | BDNF1200 | BDNF1600 | BDNF2000 | BDNF3150 ① |
|--|----------------------------|--------------------------------------|------------------------------------|--|--|---------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------|
| Approvals ^① | 2 pole 3 pole 4 pole | UL508 & IEC UL508 & IEC IEC | UL98 & IEC UL98 & IEC IEC | UL98 & IEC UL98 & IEC UL98 & IEC | UL98 & IEC UL98 & IEC UL98 & IEC | UL98 & IEC UL98 & IEC IEC | UL98 & IEC UL98 & IEC IEC | UL98 & IEC UL98 & IEC IEC | UL98 & IEC UL98 & IEC IEC | IEC IEC IEC |
| General purpose amp rating | -40° to 40°C | | | | | | | | | |
| pf = 0.7 – 0.8 | A | 175 | 200 | 400 | 600 | 800 | 1200 | 1600 | 2000 | 3150 |
| Max. operating voltage | V | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 480 | — |
| Max. horsepower rating/Max. motor FLA current, pf = 0.4 – 0.5 | | | | | | | | | | |
| Three phase | 200 – 208V HP/A | 30/88.0 | 60/160.0 | 100/273.0 | 150/396.0 | 200/528.0 | — | — | — | — |
| | 240V HP/A | 40/104.0 | 75/192.0 | 125/312.0 | 200/480.0 | 250/602.0 | — | — | — | — |
| | 480V HP/A | 75/96.0 | 150/180.0 | 250/302.0 | 400/477.0 | 500/590.0 | — | — | — | — |
| | 600V HP/A | 100/99.0 | 200/192.0 | 350/336.0 | 500/472.0 | 600/576 | — | — | — | — |
| Single phase | 120V HP/A | — | — | — | — | — | — | — | — | — |
| | 240V HP/A | — | — | — | — | — | — | — | — | — |
| Short circuit rating with fuse | | | | | | | | | | |
| Fuse type CC | kA | — | — | — | — | — | — | — | — | — |
| Fuse type J | kA | 100 | — | — | — | — | — | — | — | — |
| Fuse type T | kA | — | — | — | — | — | — | — | — | — |
| Fuse type RK1 | kA | — | — | — | — | — | — | — | — | — |
| Fuse type RK5 | kA | — | — | — | — | — | — | — | — | — |
| Fuse type L | kA | — | — | — | — | — | 100 | 100 | 100 | — |
| Fuse type H | kA | — | — | — | — | — | — | — | — | — |
| Fuse size | A | 200 | 200 | 600 | 600 | 1200 | 1200 | 2000 | 2000 | — |
| Short circuit rating with MCCB | kA | 25 | 25 | 50 | 50 | 50 | 50 | 65 | 65 | — |
| Endurances | | | | | | | | | | |
| Min. Electrical endurance, pf = 0.75 – 0.80 | operation cycles | 6000 | 6000 | 1000 | 1000 | 500 | 500 | 500 | 500 | 400 |
| Min. Electrical endurance, pf = 0.40 – 0.50 | operation cycles | 1000 | ② | ② | ② | ② | ② | ② | ② | ② |
| Mechanical endurance | operations | 16,000 | 16,000 | 10,000 | 10,000 | 10,000 | 10,000 | 6000 | 6000 | 6000 |
| Physical characteristics | | | | | | | | | | |
| Weight, switches | 3 pole lb | 6.61 | 6.61 | 13.66 | 13.66 | 35.9 | 38.55 | 127.7 | 127.7 | 127.7 |
| | 4 pole lb | 8.15 | 8.15 | 16.74 | 16.74 | 45.15 | 49.56 | 149.7 | 149.7 | 149.7 |
| Dimension, switches | 3 pole H in | 8.35 | 8.35 | 11.81 | 11.77 | 19.09 | 19.09 | 25.04 | 25.04 | 25.04 |
| | W in | 7.83 | 8.62 | 10.24 | 11.93 | 14.29 | 14.29 | 18.43 | 18.43 | 18.43 |
| | D in | 4.55 | 4.55 | 5.12 | 5.12 | 4.92 | 4.92 | 10.67 | 10.67 | 10.67 |
| Shaft size — square | □ in | .31 X .31 | .31 x .31 | .47 x .47 | .47 x .47 | .47 x .47 | .47 x .47 | .47 x .47 | .47 x .47 | .47 x .47 |
| | mm | 8 X 8 | 8 x 8 | 12 x 12 | 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 | lb. in. | 71.5 | 71.5 | 184 | 184 | 184 | 184 | 438 | 438 | 438 |
| Terminal lug kits | | | | | | | | | | |
| Wire range | AWG | BDTL25 #6 – 300kcmil ^③ | BDTL25 #6-300kcmil ^③ | BDTL26 #2-600kcmil | BDTL27 (2)#2-600kcmil | BDTL30 (2)#2-600kcmil | BDTL28 (4)#2-600kcmil | BDTL28 (4)#2-600kcmil | BDTL28/2 (8)#2-600kcmil | BDTL28/2 (8)#2-600kcmil |
| Torque: | | | | | | | | | | |
| Wire tightening | lb. in. | 375 | 375 | 500 | 375 | 500 | 375 | 375 | 375 | 375 |
| Lug mounting | lb. in. | 230 | 230 | 480 | 500 | 230 | 230 | 230 | 230 | 230 |
| Auxiliary contacts | | | | | | | | | | |
| NEMA ratings, AC | | BDAUX_ _ A600 | BDAUX_ _ A600 | BDAUX_ _ A600 | BDAUX_ _ A600 | BDAUX_ _ A600 | BDAUX_ _ A600 | BDAUX_ _ A600 | BDAUX_ _ A600 | BDAUX_ _ 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 | | BDAUX_ _ P600 | BDAUX_ _ P600 | BDAUX_ _ P600 | BDAUX_ _ P600 | BDAUX_ _ P600 | BDAUX_ _ P600 | BDAUX_ _ P600 | BDAUX_ _ P600 | BDAUX_ _ P600 |
| DC rated voltage | VDC | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 |
| DC thermal rated current | A | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| DC maximum make-break | VA | 138 | 138 | 138 | 138 | 138 | 138 | 138 | 138 | 138 |
| Torque: | | | | | | | | | | |
| Wire tightening | lb. in | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Wire range | AWG | #22 – #124 | #22 – #14 | #22 – #14 | #22 – #14 | #22 – #14 | #22 – #14 | #22 – #14 | #22 – #14 | #22 – #14 |

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

Fusible

Non-Fused

Enclosed Fused

Enclosed Non-Fused

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 ^① | 40°C 750 V | 750 | 750 | 750 | 750 | 750 | 750 | 750 | 750 | | |
| Rated impulse withstand voltage | kV | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 12 | |
| Rated thermal current, I _m | | | | | | | | | | | |
| AC 20/DC 20 | open ^② | 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 | 160^③ |
| | ≤690V | A | 16 | 25 | 32 | 63 | 80 | 40 | 63 | 100 | 160 ^③ |
| | ≤1000V ^① | A | — | — | — | — | — | — | — | — | — |
| AC 22A | ≤500V | A | 16 | 25 | 32 | 63 | 80 | 40 | 63 | 100 | 160 ^③ |
| | ≤690V | A | 16 | 25 | 32 | 63 | 80 | 40 | 63 | 100 | 160 ^③ |
| | ≤1000V ^① | 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 ^① | A | — | — | — | — | — | — | — | — | — |
| Rated operational currents/poles in series | | | | | | | | | | | |
| DC21A | 48V | A | 16/1 | 25/1 | 32/1 | ⊕ | ⊕ | 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 | ⊕ | ⊕ | 40/4 | 63/4 | 100/4 | 160/2 |
| | 440V | A | ⊕ | ⊕ | ⊕ | ⊕ | ⊕ | ⊕ | ⊕ | ⊕ | 160/3 |
| | 750V | A | ⊕ | ⊕ | ⊕ | ⊕ | ⊕ | ⊕ | ⊕ | ⊕ | 160/4 |
| DC22A | 48V | A | 16/1 | 25/1 | 32/1 | ⊕ | ⊕ | 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 | ⊕ | ⊕ | 40/4 | 63/4 | 63/4 | 160/2 |
| | 440V | A | ⊕ | ⊕ | ⊕ | ⊕ | ⊕ | ⊕ | ⊕ | ⊕ | 160/3 |
| | 750V | A | ⊕ | ⊕ | ⊕ | ⊕ | ⊕ | ⊕ | ⊕ | ⊕ | ⊕ |
| DC23A | 48V | A | 16/1 | 25/1 | 32/1 | ⊕ | ⊕ | 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 | ⊕ | ⊕ | 40/4 | 63/4 | 63/4 | 160/2 |
| | 440V | A | ⊕ | ⊕ | ⊕ | ⊕ | ⊕ | ⊕ | ⊕ | ⊕ | 160/3 |
| | 750V | A | ⊕ | ⊕ | ⊕ | ⊕ | ⊕ | ⊕ | ⊕ | ⊕ | ⊕ |
| 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 ^④ | A | 25 | 32 | 40 | 63 | 80 | 100 | 100 | 100 | 200 | |



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.

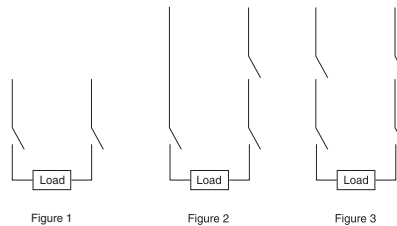
③ IEC 947-3, utilization category B, infrequent operation.

④ Not available at time of printing, please consult factory.

for Non-Fusible Disconnect Switches
BDNF175 – BDNF3150

IEC

| Catalog number | 3 pole | BDNF175 | BDNF200A | BDNF400 | BDNF600A | BDNF800A | BDNF1200 | BDNF1600 | BDNF2000 | BDNF3150 |
|--|-----------------------|------------|------------|------------|------------|-------------|-----------------|-------------------------|-------------------------|-------------------------|
| Rated insulation and operational voltage, AC20 and DC20 ^① | 40°C V | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | |
| Rated impulse withstand voltage | kV | 12 | 12 | 12 | 12 | 8 | 8 | 8 | 8 | 8 |
| Rated thermal current, I _{th} | | | | | | | | | | |
| AC 20/DC 20 | open ^② A | 315 | 315 | 630 | 800 | 1250 | 1600 | 2500 | 2500 | 3150 |
| | 40°C enclosed A | 270 | 270 | 630 | 720 | 1250 | 1600 | 2300 | 2300 | 2600 |
| | 60°C enclosed A | 220 | 220 | 630 | 720 | 1250 | 1600 | 2300 | 2300 | 2600 |
| Rated operational currents | | | | | | | | | | |
| AC 21A | ≤500V A | 250 | 250 | 630 | 800 | 1250 | 1600 | 2500^③ | 2500^③ | 3150^③ |
| | ≤690V A | 250 | 250 | 630 | 800 | 1250 | 1600 | 2500 ^③ | 2500 ^③ | 3150 ^③ |
| | ≤1000V ^① A | 250 | 250 | 630 | 630 | — | — | — | — | — |
| AC 22A | ≤500V A | 250 | 250 | 630 | 800 | 1250 | 1600 | 1600 ^③ | 1600 ^③ | 1600 ^③ |
| | ≤690V A | 250 | 250 | 630 | 800 | — | — | — | — | — |
| | ≤1000V ^① A | 250 | 250 | 400 | 400 | — | — | — | — | — |
| AC 23A | ≤415V A | 250 | 250 | 630 | 720 | 800 | 800 | 800 ^③ | 800 ^③ | 800 ^③ |
| | ≤500V A | 250 | 250 | 580 | 600 | 800 | 800 | 800 ^③ | 800 ^③ | 800 ^③ |
| | ≤690V A | 250 | 250 | 350 | 350 | — | — | — | — | — |
| | ≤1000V ^① A | 125 | 125 | 200 | 200 | — | — | — | — | — |
| Rated operational currents/poles in series | | | | | | | | | | |
| DC21A | 48V A | 250 | 250 | 630 | 800 | 1250 | 1600 | 1600 | 1600 | 1600 |
| | 110V A | 250 | 250 | 630 | 800 | 1250 | 1600 | 1600 | 1600 | 1600 |
| | 220V A | 250/2 | 250/2 | 630/2 | 800/2 | 1250/2 | 1600/2 | 1600/2 | 1600/2 | 1600/2 |
| | 440V A | 250/3 | 250/3 | 400/3 | 500/3 | — | — | — | — | — |
| | 750V A | 250/4 | 250/4 | — | — | — | — | — | — | — |
| DC22A | 48V A | 250 | 250 | 630 | 800 | ④ | ④ | ④ | ④ | ④ |
| | 110V A | 250 | 250 | 630 | 630 | ④ | ④ | ④ | ④ | ④ |
| | 220V A | 250/2 | 250/2 | 400/2 | 500/2 | ④ | ④ | ④ | ④ | ④ |
| | 440V A | 250/3 | 250/3 | 400/3 | 500/3 | ④ | ④ | ④ | ④ | ④ |
| | 750V A | 250/4 | 250/4 | — | — | ④ | ④ | ④ | ④ | ④ |
| DC23A | 48V A | 250 | 250 | 630 | 800 | ④ | ④ | ④ | ④ | ④ |
| | 110V A | 250 | 250 | 630 | 800 | ④ | ④ | ④ | ④ | ④ |
| | 220V A | 250/2 | 250/2 | 630/2 | 630/2 | ④ | ④ | ④ | ④ | ④ |
| | 440V A | 250/3 | 250/3 | 400/3 | 400/3 | ④ | ④ | ④ | ④ | ④ |
| | 750V A | 250/4 | 250/4 | — | — | ④ | ④ | ④ | ④ | ④ |
| Rated operational power | | | | | | | | | | |
| AC23A | 230V kW | 75 | 75 | 180 | 200 | 250 | 250 | 250 | 250 | 250 |
| | 400/415V kW | 132 | 132 | 315 | 355 | 400 | 400 | 400 | 400 | 400 |
| | 500V kW | 160 | 160 | 355 | 400 | 450 | 450 | 450 | 450 | 450 |
| | 690V kW | 200 | 200 | 355 | 355 | — | — | — | — | — |
| Short-circuit current with back-up fuses of size ^① | kA | 100 | 100 | 80 | 80 | 50 | 50 ^⑤ | 50 ^④ | 50 ^④ | 50 ^④ |
| | A | 400 | 630 | 800 | 1000 | 1250 | 1250 | 1250 | 1250 | 1250 |



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.

Fusible

Non-Fused

Enclosed Fused

Enclosed Non-Fused

for Non-Fusible Disconnect Switches
CDNF16 – CDNF160

IEC

| Catalog number | 3 pole | CDNF16 | CDNF25 | CDNF32 | CDNF45 | CDNF63 | CDNF30 | CDNF60 | CDNF100 | CDNF160 |
|--|------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------|
| Rated voltage, U _e | 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 _{cm} | kA | 0.7 | 0.7 | 1.4 | 1.4 | 3.6 | 3.6 | 3.6 | 12 | |
| Rated short time withstand current, | | | | | | | | | | |
| RMS I ^{CW} 0.2s | kA | — | — | — | — | — | — | — | — | 7 |
| RMS I ^{CW} 1.0s | kA | 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 ^① | 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 |
| 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 | 100 | 127 | |
| | W mm | 35 | 35 | 35 | 52.5 | 52.5 | 70 | 70 | 70 | 126 |
| | D mm | 56 | 56 | 56 | 72.5 | 72.5 | 75 | 75 | 75 | 74.5 |
| Power loss per pole | W | 0.3 | 0.6 | 1 | 1.4 | 2.8 | 1 | 1.6 | 4 | 6.5 |
| Shaft size — square □ | mm | 5 X 5 | 5 x 5 | 5 x 5 | 5 x 5 | 5 x 5 | 5 x 5 | 5 x 5 | 5 x 5 | 6 x 6 |
| Switch operating torque for rotary 3 pole switches | Nm | 1 | 1 | 1 | 1.2 | 1.2 | 2 | 2 | 2 | 6 |
| Suitable conductor cross section Cu | mm ² | 0.75 – 10 | 0.75 – 10 | 0.75 – 10 | 1.5 – 35 | 1.5 – 35 | 1.5 – 25 | 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 9-47-5-1 | | | | | | | | | | |
| Rated voltage, U _i | VAC | 690 | 690 | 690 | 690 | 690 | 690 | 690 | 690 | 690 |
| Thermal current, I _m | A | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 10 |
| AC12/DC12 I _n , A U _e = | | | | | | | | | | |
| 120V | A | — | — | — | — | — | — | — | — | 8/— |
| 125V | A | — | — | — | — | — | — | — | — | —/1.1 |
| 240V | A | 6 ^③ | 6 ^③ | 6 ^③ | 6 ^③ | 6 ^③ | 6 ^③ | 6 ^③ | 6 ^③ | 6/— |
| 250V | A | — | — | — | — | — | — | — | — | —/0.55 |
| 400V | A | 4 ^③ | 4 ^③ | 4 ^③ | 4 ^③ | 4 ^③ | 4 ^③ | 4 ^③ | 4 ^③ | 4/— |
| 415V | A | — | — | — | — | — | — | — | — | 4/— |
| 440V | A | — | — | — | — | — | — | — | — | —/0.31 |
| 480V | A | — | — | — | — | — | — | — | — | 3/— |
| 500V | A | — | — | — | — | — | — | — | — | 3/0.27 |
| 600V | A | — | — | — | — | — | — | — | — | —/0.2 |
| 690V | A | 2 ^③ | 2 ^③ | 2 ^③ | 2 ^③ | 2 ^③ | 2 ^③ | 2 ^③ | 2 ^③ | 2/— |

Fusible

Non-Fused

Enclosed Fused

Enclosed Non-Fused

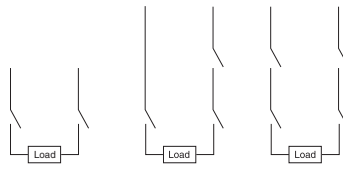


Figure 1 Figure 2 Figure 3

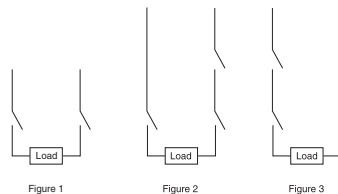
① 1000V, IEC 408.
② Not available at time of printing, please consult factory.
③ AC15, according to IEC947-5-1.

for Non-Fusible Disconnect Switches
BDNF175 – BDNF3150

IEC

| Catalog number | 3 pole | BDNF175 | BDNF200A | BDNF400 | BDNF600A | BDNF800A | BDNF1200 | BDNF1600 | BDNF2000 | BDNF3150 |
|--|------------------|----------|----------|------------------|------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Rated voltage, U _e | V/V | 500/690 | 500/690 | 500/690 | 500/690 | 690 | 690 | 690 | 690 | 690 |
| Rated conditional short-circuit current | kA | 100/50 | 100/50 | 100/50 | 100/50 | 45 | 45 | 45 | 50 | 50 |
| Max. allowed fuse size, type OFAA | A | 400 | 400 | 800 ^③ | 800 ^③ | — | — | — | — | — |
| Max. allowed cut-off current, peak value | kA | 30 | 30 | 62 | 62 | — | — | — | — | — |
| Rated short-circuit making capacity, prospective peak value, I _{sm} | kA | 35 | 80 | 80 | 105 | 105 | 115 | 115 | 115 | — |
| Rated short time withstand current, | | | | | | | | | | |
| RMS I _{sw} 0.2s | kA | 17 | 17 | 38 | 38 | 100 | 100 | 110 | 110 | 110 |
| RMS I _{sw} 1.0s | kA | 8 | 8 | 17 | 17 | 50 ^⑤ | 50 ^⑤ | 50 ^⑤ | 50 ^⑤ | 50 ^⑤ |
| AC breaking capacity | | | | | | | | | | |
| pf = 0.35 | | | | | | | | | | |
| ≤415V | A | 1600 | 2000 | 5760 | 5780 | 6400 | 6400 | 6400 | 6400 | 6400 |
| ≤500V | A | 1600 | 2000 | 4800 | 4800 | 6400 | 6400 | 6400 | 6400 | 6400 |
| ≤690V | A | 1600 | 2000 | 2800 | 2800 | 2500 ^⑥ | 2500 ^⑥ | 4800 ^⑦ | 4800 ^⑦ | 4800 ^⑦ |
| ≤1000V ^① | A | 1000 | 1000 | 1200 | 1200 | — | — | — | — | — |
| DC breaking capacity/poles in series | | | | | | | | | | |
| L/R = 15ms, 3 pole in series | | | | | | | | | | |
| 48V | A | 1260/1 | 1260/1 | — | — | — | — | — | — | — |
| 110V | A | 1260/1 | 1260/1 | — | — | — | — | — | — | — |
| 220V | A | 1260/2 | 1260/2 | 1600/2 | 2000/2 | 1900/2 ^④ | 2600/2 ^④ | 2600/2 ^④ | 2600/2 ^④ | 2600/2 ^④ |
| 440V | A | 1260/1 | 1260 | 1600 | 2000 | — | — | — | — | — |
| 750V | A | 1260/1 | 1260/4 | — | — | — | — | — | — | — |
| Capacitor ratings | 400/415V kVar | 90 | 110 | 300 | 350 | ② | ② | ② | ② | ② |
| Rated capacitor duty | kA | 135 | 170 | 450 | 500 | ② | ② | ② | ② | ② |
| Physical characteristics | | | | | | | | | | |
| Electrical endurance at rated operational current, pf = 0.65 | operation cycles | 1000 | 1000 | 1000 | 500 | 500 | 500 | 100 ^⑧ | 100 ^⑧ | 100 ^⑧ |
| Mechanical endurance | operations | 16,000 | 16,000 | 10,000 | 10,000 | 10,000 | 10,000 | 6000 | 6000 | 6000 |
| Weight | 3 pole kg | 3.0 | 3.0 | 6.2 | 6.2 | 16.3 | 17.5 | 37 | 37 | 37 |
| | 4 pole kg | 3.7 | 3.7 | 7.6 | 7.6 | 20.5 | 22.5 | 47 | 47 | 47 |
| Dimension | 3 pole H mm | 212 | 300 | 299 | 485 | 485 | 636 | 636 | 636 | 636 |
| | W mm | 199 | 219 | 260 | 303 | 363 | 363 | 468 | 468 | 468 |
| | D mm | 115.5 | 115.5 | 130 | 130 | 125 | 125 | 271 | 271 | 271 |
| Power loss per one pole | W | 3.5 | 5.5 | 22 | 40 | 40 | 67 | 90 | 90 | 140 |
| Shaft size — square □ | mm | 8 x 8 | 8 x 8 | 12 x 12 | 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 | 8.2 | 8.2 | 21 | 21 | 21 | 21 | 50 | 50 | 50 |
| Suitable conductor cross section Cu | mm ² | — | — | — | — | — | — | — | — | — |
| Bolt size | | 8x25 | 10 x 30 | 12 x 40 | 12 x 40 | 12 x 60 | 12 x 60 | 12 x 60 | 12 x 60 | 12 x 60 |
| Auxiliary contacts | | BDAUX_ _ | BDAUX_ _ | BDAUX_ _ | BDAUX_ _ | BDAUX_ _ | BDAUX_ _ | BDAUX_ _ | BDAUX_ _ | BDAUX_ _ |
| Ratings according to IEC 947-5-1 | | | | | | | | | | |
| Rated voltage, U _i | VAC | 690 | 690 | 690 | 690 | 690 | 690 | 690 | 690 | 690 |
| Thermal rated current, I _n | A | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| AC12/DC12 I _n , A U _e = | | | | | | | | | | |
| 120V | A | 8/— | 8/— | 8/— | 8/— | 8/— | 8/— | 8/— | 8/— | 8/— |
| 125V | A | —/1.1 | —/1.1 | —/1.1 | —/1.1 | —/1.1 | —/1.1 | —/1.1 | —/1.1 | —/1.1 |
| 240V | A | 6/— | 6/— | 6/— | 6/— | 6/— | 6/— | 6/— | 6/— | 6/— |
| 250V | A | —/0.55 | —/0.55 | —/0.55 | —/0.55 | —/0.55 | —/0.55 | —/0.55 | —/0.55 | —/0.55 |
| 400V | A | 4/— | 4/— | 4/— | 4/— | 4/— | 4/— | 4/— | 4/— | 4/— |
| 415V | A | 4/— | 4/— | 4/— | 4/— | 4/— | 4/— | 4/— | 4/— | 4/— |
| 440V | A | —/0.31 | —/0.31 | —/0.31 | —/0.31 | —/0.31 | —/0.31 | —/0.31 | —/0.31 | —/0.31 |
| 480V | A | 3/— | 3/— | 3/— | 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 | 3/0.27 | 3/0.27 | 3/0.27 |
| 600V | A | —/0.2 | —/0.2 | —/0.2 | —/0.2 | —/0.2 | —/0.2 | —/0.2 | —/0.2 | —/0.2 |
| 690V | A | 2/— | 2/— | 2/— | 2/— | 2/— | 2/— | 2/— | 2/— | 2/— |

- ① 1000V, IEC 408.
- ② Not available at time of printing, please consult factory.
- ③ Size 4.
- ④ L/R = 2.5 mS.
- ⑤ Maximum distance between busbar support and switch terminal 70mm.
- ⑥ pf 0.95.
- ⑦ pf 0.65.
- ⑧ IEC 947-3, utilization category B, infrequent operation.



Fusible

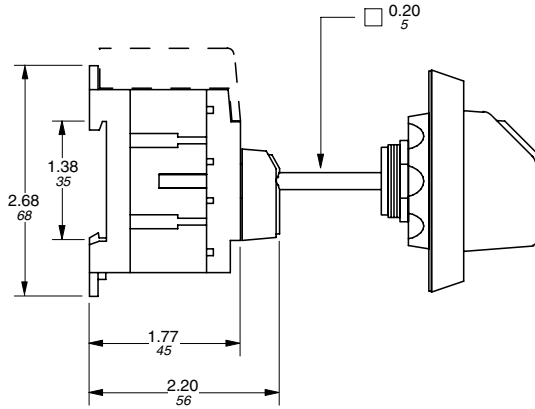
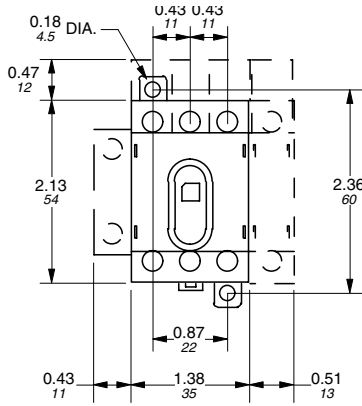
Non-Fused

Enclosed Fused

Enclosed Non-Fused

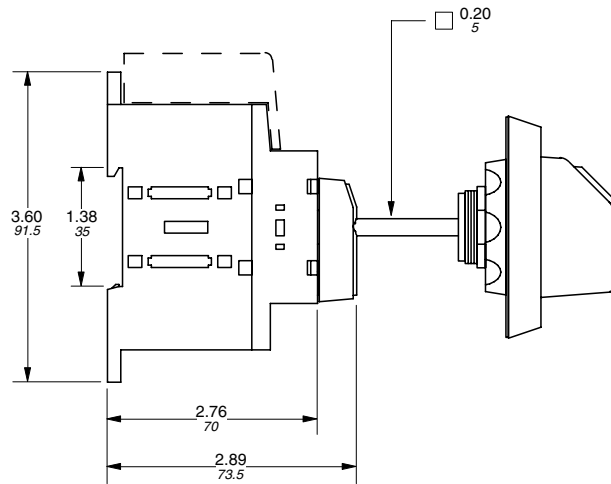
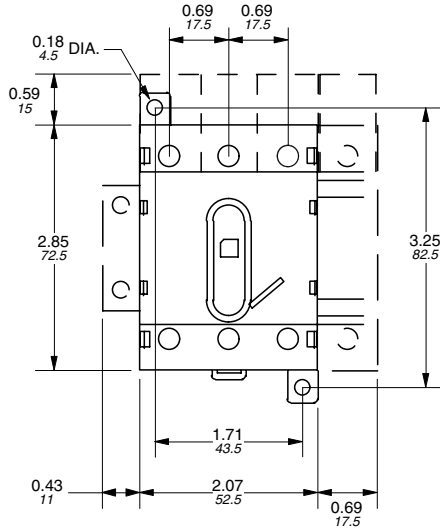
for Non-Fusible Disconnect Switches
CDNF16 — CDNF100

CDNF16, CDNF25, CDNF32 — base & DIN rail mounted switch



Fusible

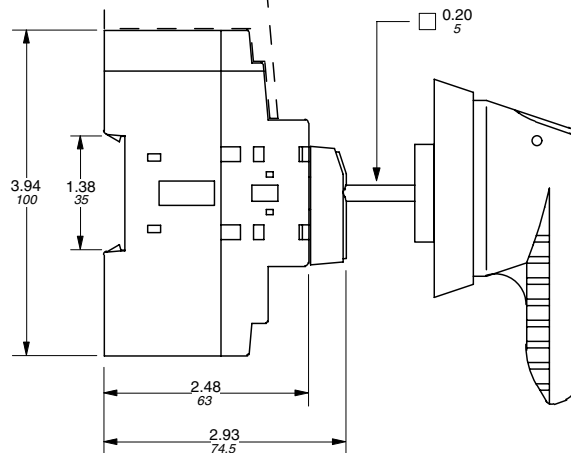
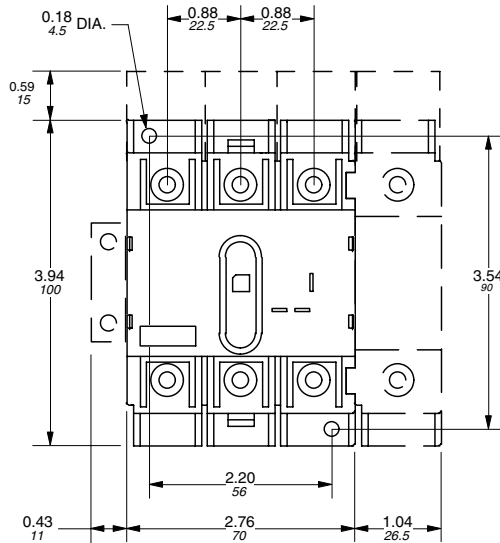
CDNF45, CDNF63 — base & DIN rail mounted switch



Non-Fused

Enclosed Fused

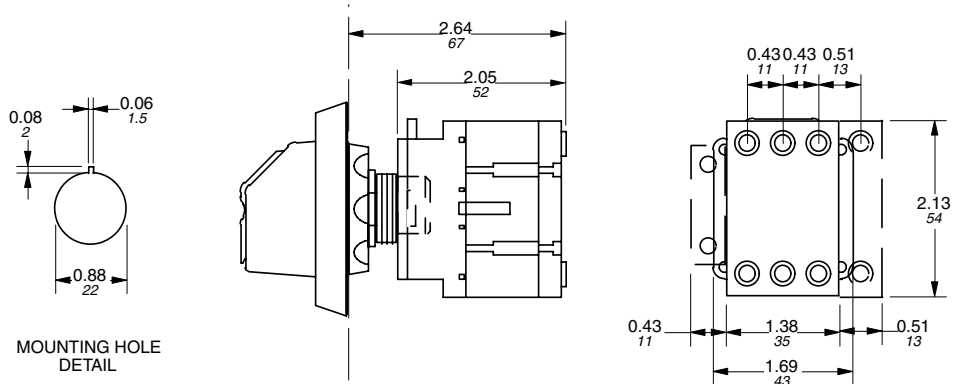
CDNF30, CDNF60, CDNF100 — base & DIN rail mounted switch



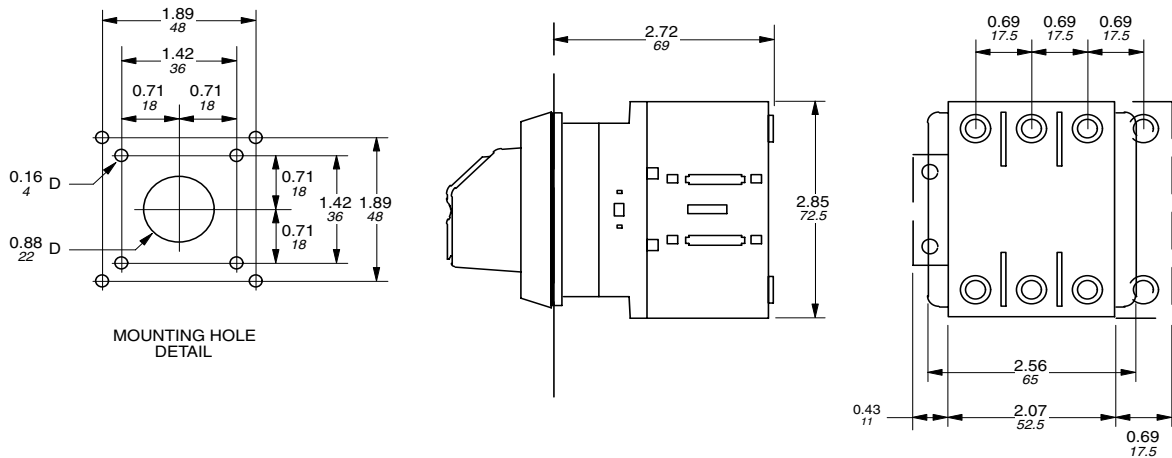
Enclosed Non-Fused

for Non-Fusible Disconnect Switches
CDNF16D — CDNF100D

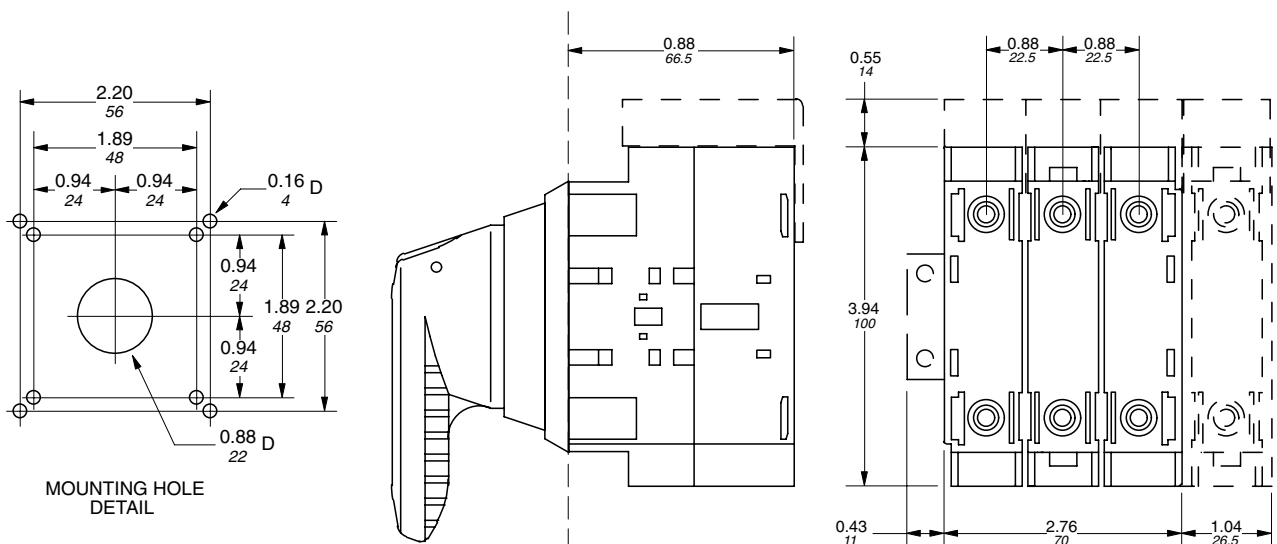
CDNF16D, CDNF25D, CDNF32D — door mounted switch



CDNF45D, CDNF63D — door mounted switch



CDNF30D, CDNF60D, CDNF100D — door mounted switch



Fusible

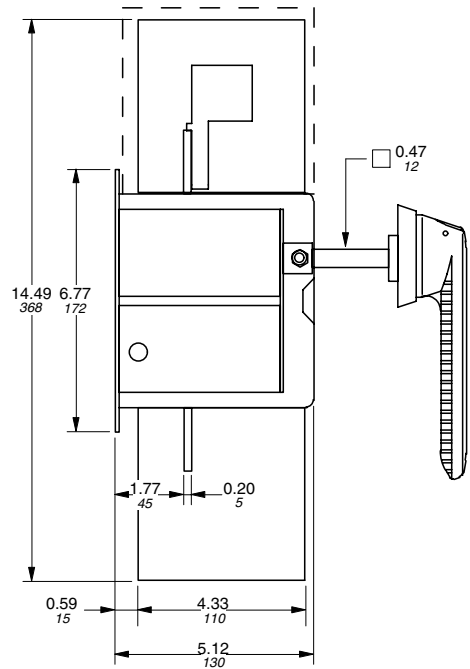
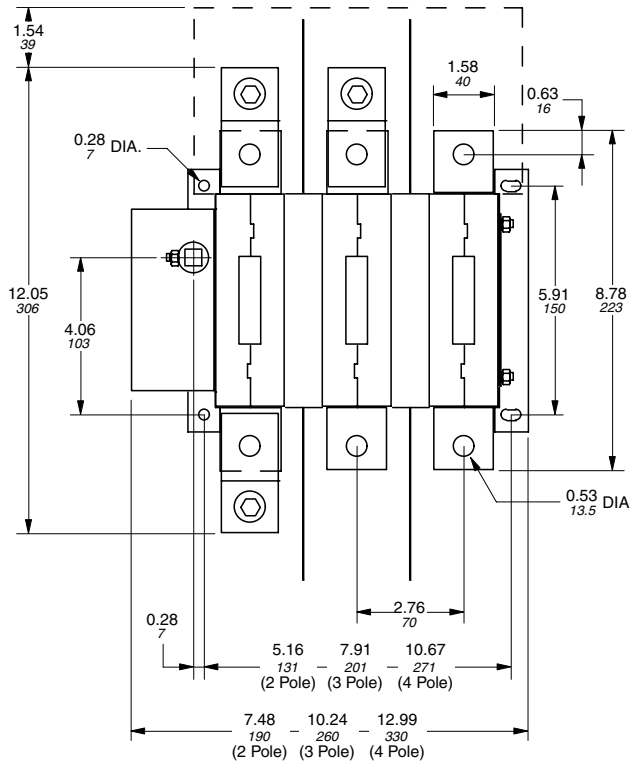
Non-Fused

Enclosed Fused

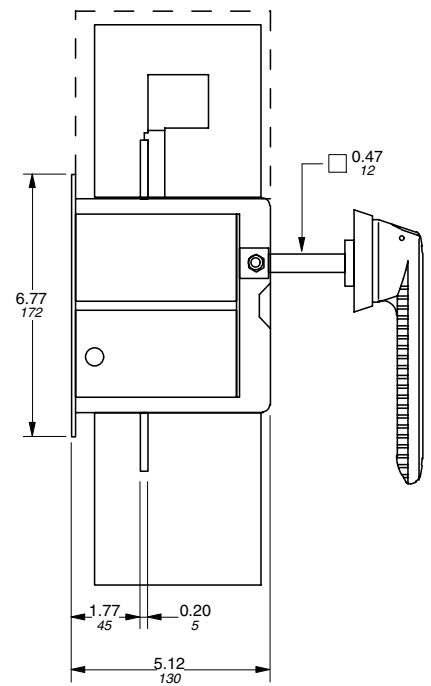
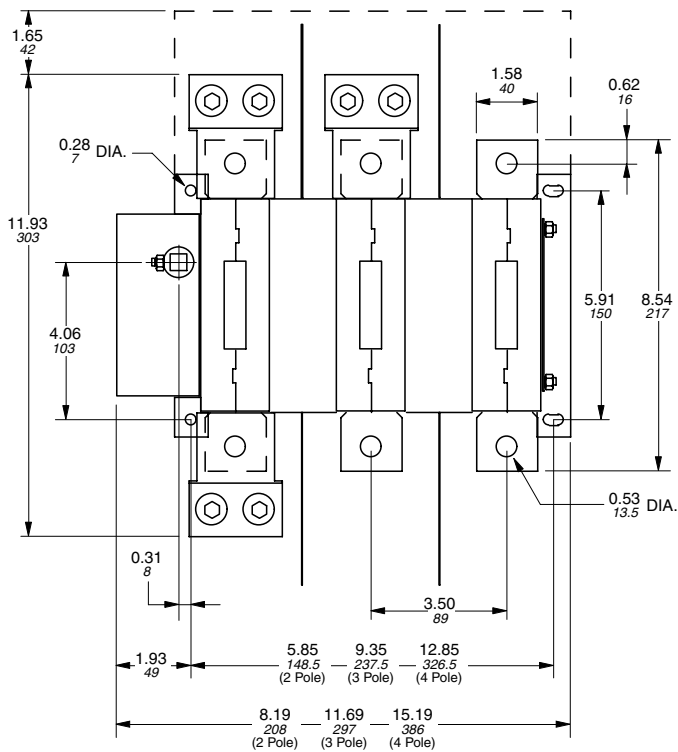
Enclosed Non-Fused

for Non-Fusible Disconnect Switches

BDNF400



BDNF600A



Fusible

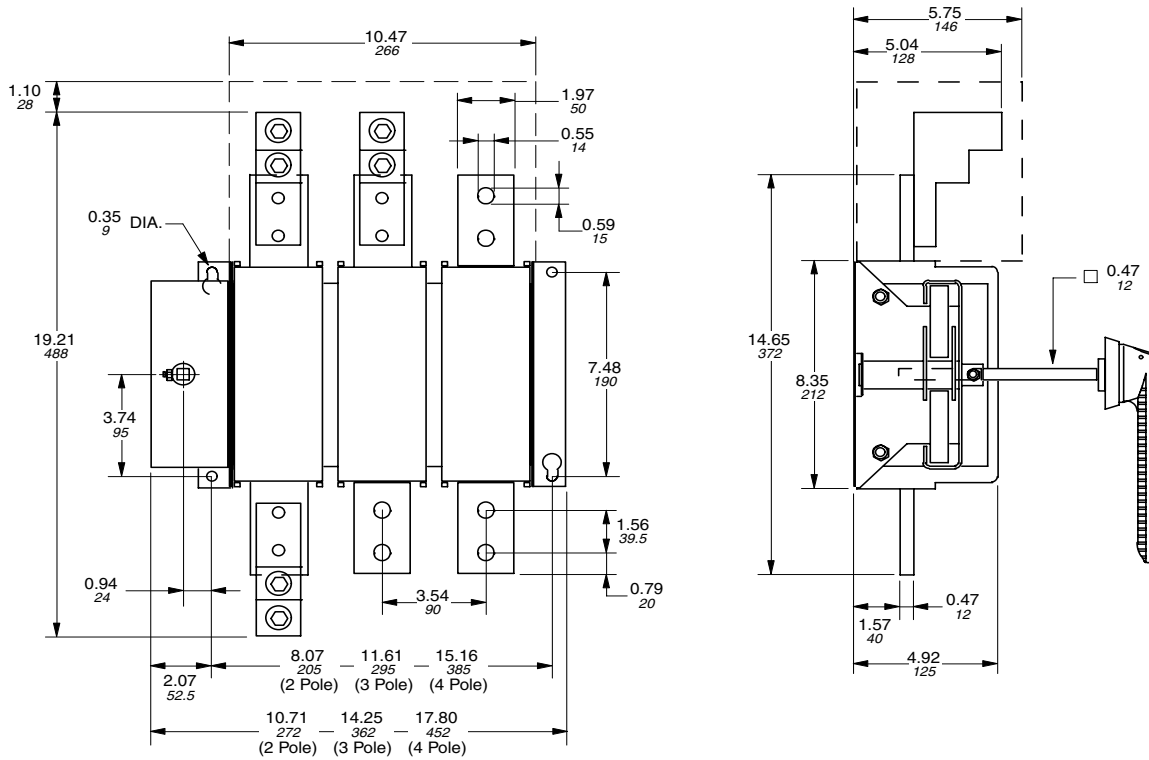
Non-Fused

Enclosed Fused

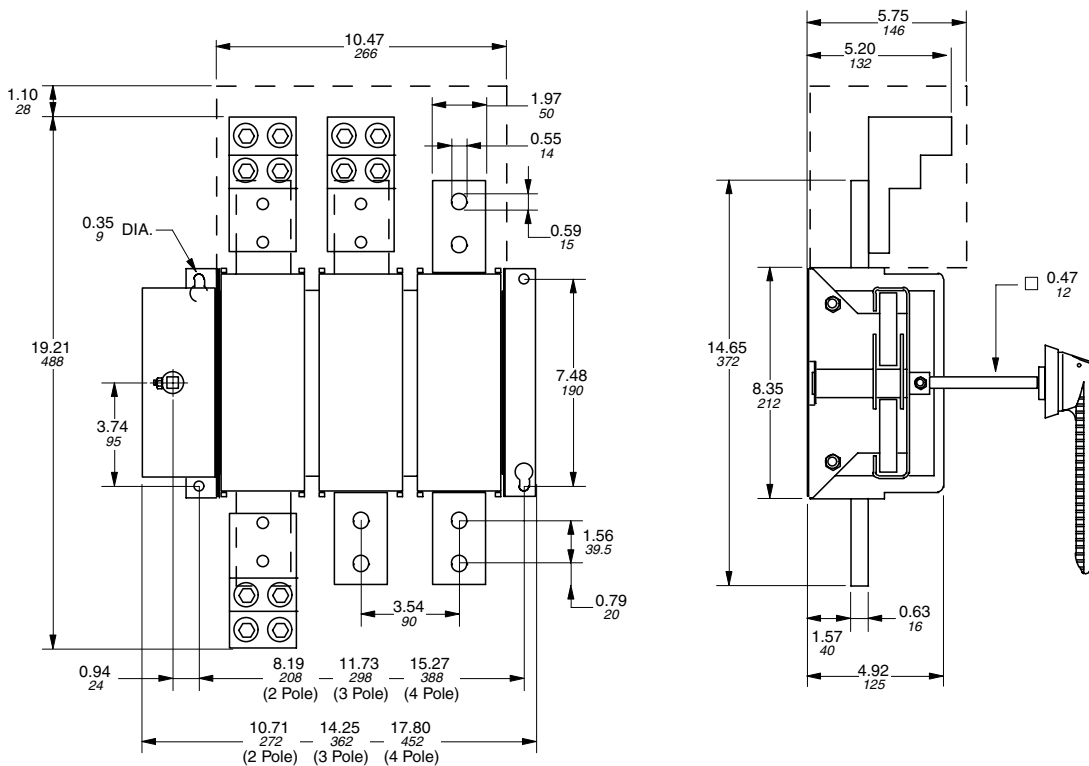
Enclosed Non-Fused

for Non-Fusible Disconnect Switches
BDNF800A — BDNF1200

BDNF800A



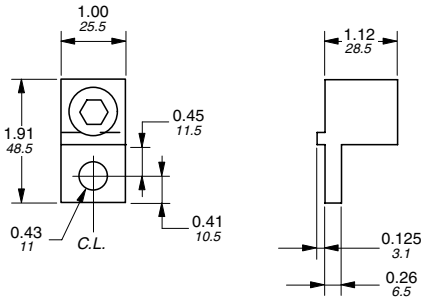
BDNF1200



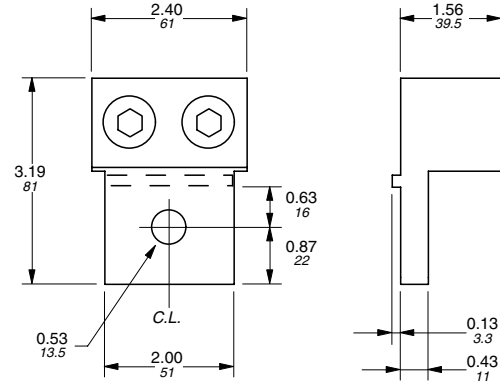
Approximate Dimensions for Terminal Lugs

Bussmann®

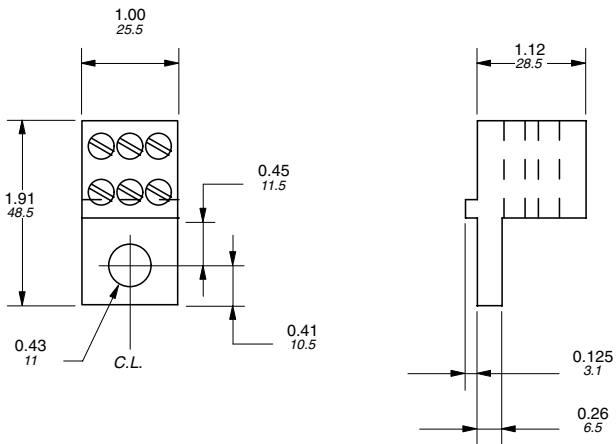
BDTL25 — for use with 175A – 200A switches



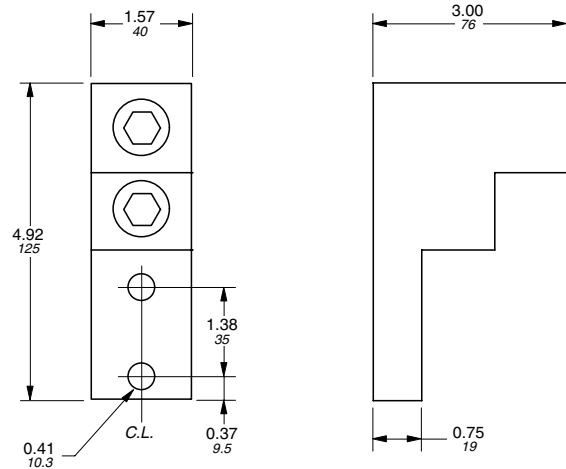
BDTL27 — for use with 600A switches



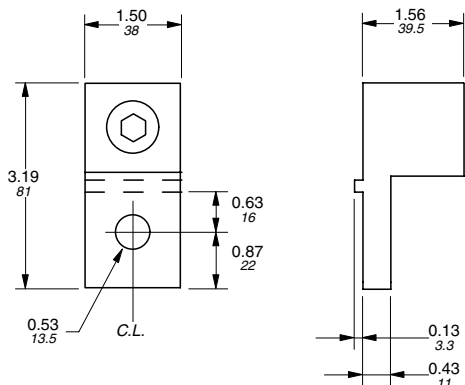
BDTL175 — for use with 175A – 200A switches



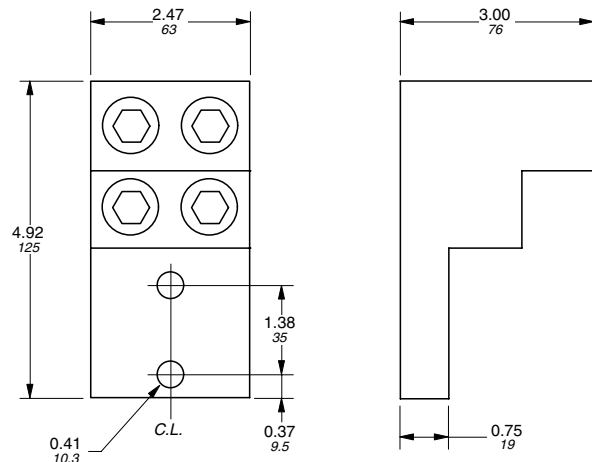
BDTL30 — for use with 800A switches



BDTL26 — for use with 400A switches



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



Fusible

Non-Fused

Enclosed Fused

Enclosed Non-Fused