

## DCD distribution class disconnect switch

## Product features

- Base and back strap: strengthened channel of galvanized steel for corrosion protection and solid operation
- Insulators available in silicone or porcelain
- Self-aligning silver to silver contacts ensure long life
- Entire blade is silver-plated copper
- Loadbreak hooks made of galvanized steel for corrosion protection, to be used with loadbreak tool
- Standard two-hole NEMA plated pad or optional two-piece parallel groove
- All testing is in accordance with IEEE 37.34 (consolidated into IEEE 37.30.1)


## Application

The DCD disconnect switch is a hookstick-operated switch used to sectionalize or isolate circuits on electrical distribution systems through 38 kV . The distribution switch can be mounted on a single or double crossarm and is rated for 600 or 900 A continuous current and 65 kA peak withstand current (40 kA momentary).

Outline drawing


## Operation

ABB disconnect switches include loadbreak hooks for use with a portable loadbreak tool. Silver-plated contacts enhance efficient current transfers. The pull-ring activates the latch as a pry-out lever for easy opening and ice breaking.

## Blade operation

A blade stop limits the blade range of motion to the $90^{\circ}$ and $160^{\circ}$ postions, and a latch prevents the switch from opening under high momentary current.

## Mounting

The DCD can be mounted in the following configurations:

- Vertical or underhung
- Polemount
- Single or double crossarm


DCD unit dimensions

| Voltage class (kV) | $\begin{gathered} \text { BIL } \\ (\mathrm{kV}) \end{gathered}$ | A |  | B |  | C |  | D |  | E |  | F |  | G |  | Porcelain weight |  | Silicone weight |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | (in) | (mm) | (in) | (mm) | (in) | (mm) | (in) | (mm) | (in) | (mm) | (in) | (mm) | (in) | (mm) | (lb) | (kg) | (lb) | (kg) |
| 15 | 110 | 25.10 | 637 | 11.67 | 296 | 8.00 | 203 | 13.29 | 338 | 12.50 | 317 | 22.60 | 574 | 4.63-6.7 | 118-172 | 40 (600 A) | 18 | 21 (900 A) | 9.5 |
| 27 | 125 | 28.57 | 726 | 15.07 | 383 | 9.00 | 229 | 14.29 | 363 | 15.90 | 404 | 26.00 | 660 | 6.38-8.4 | 162-215 | 42 (600 A) | 19 | 23 (600 A) | 10 |
| 38 | 150 | 28.57 | 726 | 15.07 | 383 | 10.0 | 254 | 15.32 | 389 | 15.90 | 404 | 26.00 | 660 | 6.38-8.4 | 162-215 | 44 (600 A) | 20 | 26 (900 A) | 12 |

DCD insulator details

| Rated voltage (kV) | $\begin{aligned} & \mathrm{BIL} \\ & (\mathrm{kV}) \end{aligned}$ | Creep |  |  |  | Strike |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Porcelain |  | Silicone |  | Porcelain |  | Silicone |  |
|  |  | (in) | (mm) | (in) | (mm) | (in) | (mm) | (in) | (mm) |
| 15 | 110 | 17.60 | 441 | 19.53 | 496 | 7.71 | 196 | 7.79 | 198 |
| 27 | 125 | 22.95 | 583 | 28.30 | 719 | 8.55 | 217 | 9.26 | 234 |
| 38 | 150 | 23.87 | 606 | 39.52 | 1003 | 9.81 | 249 | 10.62 | 270 |

DCD selection guide

| Description | Code | Definition |
| :---: | :---: | :---: |
| Switch type | S | Type DCD switch |
| Max kV, BIL | 1 | $15 \mathrm{kV}, 110 \mathrm{kV} \mathrm{BIL}$ |
|  | 2 | 27 kV , 125 kV BIL |
|  | 5 | $38 \mathrm{kV}, 150 \mathrm{kV} \mathrm{BIL}$ |
| Blade stop | N | No stop |
|  | A | $90^{\circ}$ stop |
|  | B | $160^{\circ}$ stop |
| Insulators | P | Porcelain |
|  | J | Silicone |
| Terminal connectors | A | NEMA 2-hole with captured 0.5" hardware (galvanized) |
|  | C | NEMA 2-hole with two-piece clamshell \#2-500MCM (10013A44A01) |
|  | N | NEMA 2-hole pad - standard |
|  | H | NEMA 2-hole with two-piece clamshell 4/0-500MCM (10013A44A02) |
| Base | S | Smooth slots in base for 0.5" carriage bolts |
|  | C | Serrated slots in base for . $375^{\prime \prime}$ carriage bolts |
| Mounting brackets | N | No back bracket |
|  | 8 | Two 8" long, .375-16 carriage bolts with back bracket and hardware |
|  | 1 | Two 10" long, .375-16 carriage bolts with back bracket and hardware |
|  | A | Four 8" long, .375-16 carriage bolts with back bracket and hardware |
|  | B | Four 10" long, .375-16 carriage bolts with back bracket and hardware |
| Unused | N | Space holder for future options |
| Continuous current | 6 | 600 amperes |
|  | 9 | 900 amperes |
| Specials | 0 | None |
|  | B | Stainless steel nameplate |

Example: S2BJNC1N60 = DCD, $27 \mathrm{kV}, 125 \mathrm{kV}$ BIL, $160^{\circ}$ stop, silicone insulators, standard NEMA 2-hole pads, base with serrated slots, back bracket with two 10" carriage bolts and hardware, 600 A , no specials

DCD mounting configurations


Vertical or underhung


Polemount


Single crossarm

## RBD distribution class bypass disconnect switch

## Product features

- Base and back strap: strengthened channel of galvanized steel for corrosion protection and solid operation
- Insulators available in silicone or porcelain
- Self-aligning silver to silver contacts ensure long life
- Entire blade is silver-plated copper
- Loadbreak hooks made of galvanized steel for corrosion protection, to be used with loadbreak tool
- Bypass blade is left- or right-hand operation
- Standard two-hole NEMA plated pad or optional two-piece parallel groove
- All testing is in accordance with IEEE 37.34 (consolidated into IEEE 37.30.1)


## Application

The RBD distribution bypass disconnect switch provides an economical means for bypassing and disconnecting reclosers or other equipment, allowing quick system reconfigurations to perform maintenance on any device without interrupting service.

## Operation

In normal operation, the bypass blade is open and the two disconnect blades are closed, allowing the unit to be energized. When maintenance, testing, repair, or removal is required, first close the bypass blade to provide a parallel current path; then open both disconnect blades of the bypass switch. Service continuity is maintained and the unit is isolated from the line. Reverse the process to put the unit back in service.


RBD normal operating positions

## Outline drawing




RBD bypass operating positions

Blade operation
A blade stop limits the blade range of motion to the $90^{\circ}$ and $160^{\circ}$ postions, and a latch prevents the switch from opening under high momentary current.

## Mounting

The RBD can be mounted in the following configurations:

- Vertical or underhung
- Polemount
- Single or double crossarm

RBD mounting configurations



RBD insulator details

| Rated voltage (kV) | $\begin{aligned} & \text { BIL } \\ & \text { (kV) } \end{aligned}$ | Creep |  |  |  | Strike |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Porcelain |  | Silicone |  | Porcelain |  | Silicone |  |
|  |  | (in) | (mm) | (in) | (mm) | (in) | (mm) | (in) | (mm) |
| 15 | 110 | 17.60 | 441 | 19.53 | 496 | 7.71 | 196 | 7.79 | 198 |
| 27 | 125 | 22.95 | 583 | 28.30 | 719 | 8.55 | 217 | 9.26 | 234 |
| 38 | 150 | 23.87 | 606 | 39.52 | 1003 | 9.81 | 249 | 10.62 | 270 |

RBD selection guide

| Description | Code | Definition |
| :---: | :---: | :---: |
| Switch type | R | Type RBD bypass switch |
| Max kV, BIL | 1 | $15 \mathrm{kV}, 110 \mathrm{kV} \mathrm{BIL}$ |
|  | 2 | $27 \mathrm{kV}, 125 \mathrm{kV} \mathrm{BIL}$ |
|  | 5 | $38 \mathrm{kV}, 150 \mathrm{kV} \mathrm{BIL}$ |
| Blade stop for parallel disconnect blades | N | No stop |
|  | A | $90^{\circ}$ stop |
| Blade stop for bypass disconnect blade | N | No stop (not available on crossarm mounting) |
|  | A | $90^{\circ}$ stop (required on crossarm mounting) |
|  | B | $160^{\circ}$ stop (not available on crossarm mounting) |
| Insulators | P | Porcelain |
|  | $J$ | Silicone |
| Terminal connectors | C | NEMA 2-hole with two-piece clamshell \#2-500MCM (10013A44A01) |
|  | N | NEMA 2-hole pad - standard |
|  | H | NEMA 2-hole with two-piece clamshell 4/0-500MCM (10013A44A02) |
| Mounting brackets | N | No back bracket |
|  | 8 | Four 8" long, .375-16 carriage bolts with two back brackets and hardware |
|  | 1 | Four 10" long, .375-16 carriage bolts with two back brackets and hardware |
|  | P | Pole mount frame $30^{\circ}$ from horizontal |
|  | Q | Same as "P", but accommodates 3/4" hardware |
|  | Y | Galvanized 8' steel crossarm combo (3 RBDs on crossarm) |
|  | F | Galvanized 10' steel crossarm combo (3 RBDs on crossarm) |
|  | Z | Non-metal 8' crossarm combo (3 RBDs on crossarm) |
|  | T | Non-metal 10' crossarm combo (3 RBDs on crossarm) |
| Bypass blade | L | Left-hand operation of bypass blade (operates to the left) |
|  | R | Right-hand operation of bypass blade (operates to the right) |
| Continuous current | 6 | 600 amperes |
|  | 9 | 900 amperes |
| Specials | 0 | None |

## RBD unit dimensions

| Voltage class (kV) | $\begin{aligned} & \mathrm{BIL} \\ & (\mathrm{kV}) \end{aligned}$ |  |  | B | C |  | D |  | E |  | F |  |  |  | H |  |  |  | Porcelain Silicone weight weight |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | (in) | (mm) | (in) (mm) | (in) | (mm) | (in) | (mm) | (in) | (mm) | (in) | (mm) | (in) | (mm) |  | (mm) | (in) | (mm) |  | mm) | (lb) (kg) | (lb) (kg) |
| 15 | 110 | 12.22 |  | 12.50317 | 20.86 | 530 | 14.03 | 356 | 8.0 | 203 | 22.6 | 574 | 11.67 | 296 | 22.49 | 571 | 11.43 | 290 | 5.50 | 140 | 9141 | 5424 |
| 27 | 125 | 15.63 | 397 | 15.90404 | 24.27 | 617 | 15.03 | 382 | 9.0 | 229 | 26.0 | 660 | 15.07 | 383 | 25.82 | 656 | 13.13 | 333 | 5.50 | 140 | 9945 | 5525 |
| 38 | 150 | 15.63 | 397 | 15.90404 | 24.27 | 617 | 15.03 | 382 | 10.0 | 254 | 26.0 | 660 | 15.07 | 383 | 25.82 | 656 | 13.13 | 333 | 5.50 | 140 | 10347 | 5726 |

## SID disconnect switch

Product features

- Light weight alternative to double insulator disconnect switch
- Reduces the need of double crossarm for mounting when using cutout bracket
- Insulators available in silicone, porcelain, and polymer concrete
- Self aligning silver-to-silver contacts to ensure long life
- Entire blade is silver-plated copper
- Loadbreak hooks made of galvanized steel for corrosion protection, to be used with loadbreak tool
- Standard two-hole NEMA plated pad or optional terminal connectors
- All testing is in accordance with IEEE 37.34 (consolidated into IEEE 37.30.1)


## Description

The SID disconnect switch is a single insulator disconnect with a double-bar switch blade and two, 2-hole extended NEMA pad terminals. It is a lightweight, flexible alternative to the commonly used double insulator design. In addition, the SID disconnect incorporates the ABB quality approach to cutout design.

## Application

The SID is used as a disconnect on overhead distribution feeders and in outdoor distribution substations. It is used to provide a visible break point for maintenance personnel, as a sectionalizing point, or as a loadbreak switch when used in conjunction with a portable loadbreak tool.

## Mounting

The SID can be mounted like a standard cutout, directly on a pole for use as a disconnect between overhead and underground lines, or as a visible disconnect for maintenance of line equipment. This standard cutout type design allows for ease of installation with a clear indication of its position. The SID can be mounted in the following scenarios:

- Single or double crossarm underhung

Outline drawing


- Crossarm similar to a cutout
- Crossarm vertically
- Riser pole application
- Pole mount extended angle

SID unit dimensions

| Type | Voltage rating (kV) | BIL (kV) | $\operatorname{Dim} \mathrm{A}$ |  | Dim B |  | Creep |  | Strike |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | (in) | (mm) | (in) | (mm) | (in) | (mm) | (in) | (mm) |
| Porcelain | 15 | 110 | 24.6 | 625 | 13.5 | 342 | 9.1 | 231 | 6.75 | 170 |
| Silicone | 15 | 110 | 24.6 | 625 | 13.5 | 342 | 15.0 | 380 | 5.25 | 133 |
| Polymer concrete | 15 | 110 | 24.6 | 625 | 13.5 | 342 | 9.1 | 231 | 7.00 | 178 |
| Porcelain | 27 | 125 | 28.0 | 711 | 16.9 | 429 | 12.8 | 325 | 8.50 | 216 |
| Silicone | 27 | 125 or 150 | 28.0 | 711 | 16.9 | 429 | 18.9 | 480 | 7.50 | 190 |
| Polymer concrete | 27 | 125 | 28.0 | 711 | 16.9 | 429 | 12.8 | 325 | 8.50 | 216 |
| Porcelain | 27 or 38 | 150 | 28.0 | 711 | 16.9 | 429 | 17.0 | 432 | 10.75 | 273 |

SID weights

| Voltage class (kV) | $\begin{aligned} & \text { BIL } \\ & \text { (kV) } \end{aligned}$ | Continuous current (A) | Porcelain |  | Polymer concrete |  | Silicone |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | (lbs) | (kg) | (lbs) | (kg) | (lbs) | (kg) |
| 15.5 | 110 | 600 | 14.7 | 6.7 | 14.1 | 6.4 | 10.9 | 4.9 |
| 15.5 | 110 | 900 | 15.6 | 7.1 | 15.0 | 6.8 | 12.0 | 5.4 |
| 27 | 125 | 600 | 18.4 | 8.3 | 17.6 | 8.0 | 13.1 | 5.9 |
| 27 | 125 | 900 | 19.3 | 8.8 | 18.5 | 8.4 | 14.0 | 6.4 |
| 38 | 150 | 600 | 25.2 | 11.4 | - | - | - | - |
| 38 | 150 | 900 | 26.1 | 11.8 | - | - | - | - |

SID ratings

| Maximum voltage (kV) | $\begin{aligned} & \mathrm{BIL} \\ & (\mathrm{kV}) \end{aligned}$ | Continuous current (A) | Peak withstand current (kA Asym) |
| :---: | :---: | :---: | :---: |
| 15.5 | 110 | 600 | 65 |
| 27 | 125 | 600 | 65 |
| 38 | 150 | 600 | 65 |
| 15.5 | 110 | 900 | 65 |
| 27 | 125 | 900 | 65 |
| 38 | 150 | 900 | 65 |

SID selection guide

| Description | Code | Definition |
| :---: | :---: | :---: |
| Switch type | D | Type SID Switch |
|  | 1 | 15 kV, 110 kV BIL |
|  | 2 | $27 \mathrm{kV}, 125 \mathrm{kV}$ BIL |
| Max kV, BIL | 4 | $27 \mathrm{kV}, 150 \mathrm{kV} \mathrm{BIL}$ |
|  | 5 | $38 \mathrm{kV}, 150 \mathrm{kV} \mathrm{BIL}$ |
|  | 7 | 38 kV, 170 kV BIL (26" creep, porcelain only) |
|  | 9 | $38 \mathrm{kV}, 170 \mathrm{kV}$ BIL (30" creep, porcelain only) |
|  | N | No stop |
| Blade stop | R | $90^{\circ}$ stop |
|  | B | $160^{\circ}$ stop |
|  | A | NEMA 2-hole with captured 0.5" hardware (galvanized) |
|  | C | NEMA 2-hole with two-piece clamshell \#2-500MCM (10013A44A01) |
| Terminal connectors | D | NEMA 2-hole with double eyebolt terminal \#2-350MCM |
|  | H | NEMA 2-hole with two-piece clamshell 4/0-500MCM (10013A44A02) |
|  | T | NEMA 2-hole pad - standard |
|  | B | NEMA B bracket only (403A101A03) |
| Brackets | E | Extended bracket (367C802A04) |
| Brackets | U | U pole mounting bracket (403A101A03 and 3905B11H02) |
|  | N | No bracket |
| Hooks | L | Galvanized steel hooks |
| Continuous current | 6 | 600 amperes |
| Continuous current | 9 | 900 amperes |
| Unused | 0 | Space holder for future options |
| Unused | 0 | Space holder for future options |
| Insulator | A | Porcelain |
|  | $J$ | Silicone |
|  | Z | Polymer concrete |

Example: D1RHNL600A = SID, $15 \mathrm{kV}, 110 \mathrm{kV}$ BIL, $90^{\circ}$ stop, NEMA 2-hole pads with clamshell 4/0-500MCM, no bracket, galvanized hooks, 600 A , no special options

## SID mounting configurations



Crossarm, extended angle


Pole mount extended angle


Standard pole mount


Underhung

## LSID disconnect switch

## Product features

- Light weight alternative to double insulator disconnect switch
- Reduces the need of double crossarm for mounting when using cutout bracket
- Insulators available in silicone, porcelain, polymer concrete
- Self aligning silver-to-silver contacts to ensure long life
- Entire blade is silver-plated copper
- Self contained loadbreak capability to be used only with a hookstick
- Standard two-pole NEMA plated pad or optional terminal connectors
- All testing is in accordance with IEEE 37.34 (consolidated into IEEE 37.30.1)


## Description

The LSID disconnect switch is a single insulator disconnect with self-contained loadbreak capabilities, a double-blade door, and two 2 -hole extended NEMA pad terminals. The LSID is a lightweight, flexible alternative to the commonly used double insulator design. In addition, the LSID disconnect incorporates the ABB quality approach to cutout design.

## Application

The LSID is used as a disconnect on overhead distribution feeders and in outdoor distribution substations. It is also used to provide a visible break point for maintenance personnel. The self-contained loadbreak concept enables the utility to interrupt load current by operating the switch with a simple hookstick.

## Mounting

The LSID can be mounted like a standard cutout, directly on a pole for use as a disconnect between overhead and underground lines, or as a visible disconnect for maintenance of line equipment. This standard cutout design provides a clear indication of its position and allows for easy installation. An optional mounting kit is available that allows for a variety of mounting scenarios:

- Single or double crossarm underhung
- Crossarm similar to a cutout
- Crossarm vertically
- Riser pole application

Outline drawing


## LSID unit dimensions

| Type | Voltage rating (kV) | BIL (kV) | Dim A |  | Dim B |  | Creep |  | Strike |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | (in) | (mm) | (in) | (mm) | (in) | (mm) | (in) | (mm) |
| Porcelain | 15 | 110 | 24.6 | 625 | 13.5 | 342 | 9.1 | 231 | 6.75 | 170 |
| Silicone | 15 | 110 | 24.6 | 625 | 13.5 | 342 | 15.0 | 380 | 5.25 | 133 |
| Polymer concrete | 15 | 110 | 24.6 | 625 | 13.5 | 342 | 9.1 | 231 | 7.00 | 178 |
| Porcelain | 15/27 | 125 | 28.0 | 711 | 16.9 | 429 | 12.8 | 325 | 8.50 | 216 |
| Silicone | 15/27 | 125 or 150 | 28.0 | 711 | 16.9 | 429 | 18.9 | 480 | 7.50 | 190 |
| Polymer concrete | 15/27 | 125 | 28.0 | 711 | 16.9 | 429 | 12.8 | 325 | 8.50 | 216 |
| Porcelain | 15/27 | 150 | 28.0 | 711 | 16.9 | 429 | 17.0 | 432 | 10.75 | 273 |

LSID weights

| Voltage class (kV) | $\begin{aligned} & \text { BIL } \\ & (\mathrm{kV}) \end{aligned}$ | Continuous current (A) | Porcelain |  | Polymer concrete |  | Silicone |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | (lbs) | (kg) | (lbs) | (kg) | (lbs) | (kg) |
| 15 | 110 | 600 | 16.7 | 7.6 | 15.8 | 7.2 | 12.8 | 5.8 |
| 15/27 | 125 | 600 | 20.4 | 9.3 | 19.6 | 8.9 | 15.1 | 6.8 |
| 15/27 | 150 | 600 | 27.2 | 12.3 | - | - | 21.9 | 9.9 |
| 15 | 110 | 900 | 17.6 | 8.0 | 16.7 | 7.6 | 13.7 | 6.2 |
| 15/27 | 125 | 900 | 21.3 | 9.7 | 20.5 | 9.3 | 16.0 | 7.3 |
| 15/27 | 150 | 900 | 28.1 | 12.7 | - | - | 22.8 | 10.3 |

## LSID selection guide

| Description | Code | Definition |
| :---: | :---: | :---: |
| Switch type | B | Type LSID loadbreak switch |
|  | 1 | 15 kV, 110 kV BIL |
| Max kV BIL | 2 | 15/27 kV, 125 kV BIL |
| Max ${ }^{\text {l }}$, BIL | 4 | 15/27 kV, 150 kV BIL |
|  | 7 | 15/27 kV, 170 kV BIL (26" creep, porcelain only) |
|  | N | No stop |
| Blade stop | R | $90^{\circ}$ stop |
|  | B | $160^{\circ}$ stop |
|  | A | NEMA 2-hole with captured 0.5" hardware (galvanized) |
|  | C | NEMA 2-hole with two-piece clamshell \#2-500MCM |
| Terminal connectors | D | NEMA 2-hole with double eyebolt terminal \#2-350MCM |
|  | H | NEMA 2-hole with two-piece clamshell 4/0-500MCM |
|  | T | NEMA 2-hole pad - standard |
|  | B | NEMA B bracket only (403A101A03) |
| Brackets | E | Extended bracket (367C802A04) |
|  | U | U pole mounting bracket (403A101A03 and 3905B11H02) |
|  | N | No bracket |
| Unused | N | Space holder for future options |
| Continuous current/loadbreak | 6 | 600 ampere continuous/600 amperes MAX Ioadbreak |
| Continuous current/loadibreak | 9 | 900 ampere continuous/600 amperes MAX Ioadbreak |
| Unused | 0 | Space holder for future options |
| Unused | O | Space holder for future options |
| Insulators | A | Porcelain |
|  | $J$ | Silicone |
|  | Z | Polymer concrete |

Example: B2NCBN600J = LSID, $27 \mathrm{kV}, 125 \mathrm{kV}$ BIL, no stop, NEMA 2-hole pads with clamshell 2-500MCM, NEMA B bracket, 600 A , silicone insulator

LSID mounting configurations



Standard pole mount


## ITD inline tension disconnect switch

## Product features

- Lightweight silicone insulator provides extra leakage distance and BIL ratings to ensure inline switches are not the flashover point
- Self aligning silver-to-silver contacts to ensure long life
- Entire blade is silver-plated copper
- Loadbreak hooks made of galvanized steel for corrosion protection, to be used with loadbreak tool
- Standard two-pole NEMA plated pad or optional terminal connectors
- All testing is in accordance with IEEE 37.34 (consolidated into IEEE 37.30.1)


## Description

The ITD inline tension disconnect is a hookstick-operated switch used to manually switch de-energized or parallel circuits of overhead distribution lines rated 15 through 38 kV , 150 and 200 kV BIL. The ITD is installed directly in the line and is used to sectionalize the circuit. Switches are selected by continuous current and voltage ratings. The ITD is rated for 600 and 900 A continuous current and 65 kA peak withstand current (40 kA momentary).

## Operation

All ITD disconnect switches include loadbreak hooks. Use the appropriate loadbreak device to open the switch under load. The pull-ring can be utilized for easy opening and ice breaking. The hook portion of the contact-casting matches the blade latch for positive closure.

## Blade operation

A blade stop limits the blade range of motion to the $90^{\circ}$ and $160^{\circ}$ positions, and a latch prevents the switch from opening under high momentary current.

## Insulator details

| Voltage class <br> $(\mathrm{kV})$ | BIL <br> $(\mathrm{kV})$ | Creep (silicone) |  |
| :---: | :---: | :---: | :---: |
|  | 150 | 23.23 | $(\mathrm{~mm})$ |
| $27 \& 38$ | 200 | 39.00 | 590 |



ITD mounting configuration


Ratings

| Maximum <br> voltage (kV) | BIL <br> $(\mathrm{kV})$ | Continuous <br> current (A) | Peak withstand current <br> $(\mathrm{kA} \mathrm{Asym})$ |
| :---: | :---: | :---: | :---: |
| $15 \& 27$ | 150 | $600 / 900$ | 65 |
| $27 \& 38$ | 200 | $600 / 900$ | 65 |

ITD selection guide

| Description | Code | Definition |
| :---: | :---: | :---: |
| Switch type | T | Type ITD switch |
| Max kV, BIL | 3 | $38 \mathrm{kV}, 200 \mathrm{kV} \mathrm{BIL}$ |
|  | 5 | 27 kV , 150 kV BIL |
| Blade stop | N | No stop |
|  | A | $90^{\circ}$ stop |
|  | B | $160^{\circ}$ stop |
| Terminal connectors | A | NEMA 2-hole with captured 0.5" hardware (galvanized) |
|  | C | NEMA 2-hole with two-piece clamshell \#2-500MCM (10013A44A01) |
|  | D | NEMA 2-hole with double eyebolt terminal (\#2-350 MCM) |
|  | N | NEMA 2-hole pad - standard |
|  | H | NEMA 2-hole with two-piece clamshell 4/0-500MCM (10013A44A02) |
| Insulator | A | Tongue/tongue (TT), silicone |
|  | B | Clevis/clevis (CC), silicone |
|  | M | Tongue/clevis (TC), tongue at hinge end of switch, silicone |
|  | N | Tongue/clevis (TC), clevis at hinge end of switch, silicone |
| Unused | N | Space holder for future options |
| Continuous current | 6 | 600 amperes |
|  | 9 | 900 amperes |
| Specials | 0 | None |
| Unused | 0 | Space holder for future options |
| Unused | 0 | Space holder for future options |

Example: T5NCNN9000 = ITD, $27 \mathrm{kV}, 150 \mathrm{kV}$ BIL, no stop, two-piece clamshell \#2-500MCM, tongue/clevis silicone insulator, 900 A , no specials

Outline drawing


ITD unit dimensions

| Voltage class (kV) | $\begin{aligned} & \hline \text { BIL } \\ & (\mathrm{kV}) \\ & \hline \end{aligned}$ | A |  | B |  | C |  | D |  | Silicone weight |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | (in) | (mm) | (in) | (mm) | (in) | (mm) | (in) | (mm) | (lb) | (kg) |
| 15 \& 27 | 150 | 17.92 | 455 | 12.94 | 326 | 15.08 | 383 | 28.54 | 725 | 11.0 | 5 |
| 27 \& 38 | 200 | 20.70 | 526 | 17.26 | 438 | 19.67 | 500 | 33.13 | 841 | 14.0 | 6 |

## Contact us

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Medium Voltage Distribution Components
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## Note:

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