

Single-phase overhead distribution switches Types DCD, RBD, SID, LSID, and ITD

# 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).

### 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.

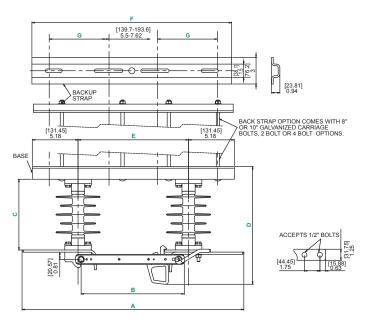
### Mounting

The DCD can be mounted in the following configurations:

- Vertical or underhung
- Polemount
- Single or double crossarm



### **Outline drawing**



#### DCD unit dimensions

Voltage class	BIL	,	Ą		В	C			)	ı	E	ı	F	G	ì	Porce weig		Silico weig	
(kV)	(kV)	(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	4.63-6.77	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	6.38-8.47	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	6.38-8.47	162-215	44 (600 A)	20	26 (900 A)	12

### DCD insulator details

#### Strike Creep Rated Silicone Silicone Porcelain Porcelain voltage BIL (kV) (mm) (in) (in) (mm) (in) (mm) (mm) 15 110 17.60 19.53 496 196 198 27 22.95 583 28.30 719 234 38 150 23.87 606 39.52 1003 9.81 249 10.62 270

### **DCD** ratings

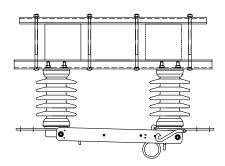
Maximum voltage (kV)	BIL (kV)	Continuous current (A)	Peak withstand current (kA Asym)
15	110	600/900	65
27	125	600/900	65
38	150	600/900	65

### DCD selection guide

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

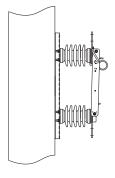
Example: S2BJNC1N60 = DCD, 27 kV, 125 kV BIL, 160° stop, silicone insulators, standard NEMA 2-hole pads, base with serrated slots, back bracket with two 10" carriage bolts and hardware, 600 A, no specials

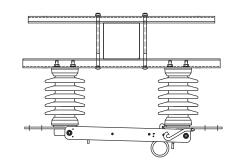
### DCD mounting configurations



Vertical or underhung







Polemount

Single crossarm

# RBD distribution class bypass disconnect switch

#### **Product features**

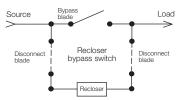
- Base and back strap: strengthened channel of galvanized steel for corrosion protection and solid operation
- Insulators available in silicone or porcelain
- Self-aligning silver to silver contacts ensure long life
- Entire blade is silver-plated copper
- Loadbreak hooks made of galvanized steel for 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)

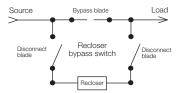


The RBD distribution bypass disconnect switch provides an economical means for bypassing and disconnecting reclosers or other equipment, allowing quick system reconfigurations to perform maintenance on any device without interrupting service.

#### 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

RBD bypass operating positions

# Blade operation

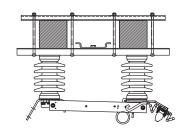
A blade stop limits the blade range of motion to the 90° and 160° postions, and a latch prevents the switch from opening under high momentary current.

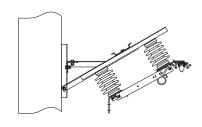
#### Mounting

The RBD can be mounted in the following configurations:

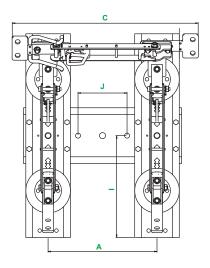
- Vertical or underhung
- Polemount
- Single or double crossarm

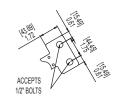
### **RBD** mounting configurations

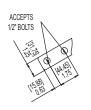


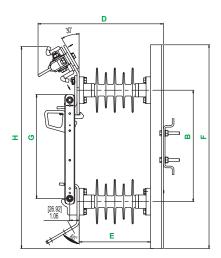


### **Outline drawing**









### **RBD** insulator details

#### Creep Strike Rated Porcelain Silicone Porcelain Silicone voltage (kV) (in) (mm) (in) (mm) (in) (mm) (kV) 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 38 150 23.87 606 39.52 1003 9.81 249 10.62 270

### **RBD** ratings

Maximum voltage (kV)	BIL (kV)	Continuous current (A)	Peak withstand current (kA Asym)
15	110	600/900	65
27	125	600/900	65
38	150	600/900	65

### **RBD** selection guide

Description	Code	Definition
Switch type	R	Type RBD bypass switch
	1	15 kV, 110 kV BIL
Max kV, BIL	2	27 kV, 125 kV BIL
	5	38 kV, 150 kV BIL
Blade stop for parallel	N	No stop
disconnect blades	А	90° stop
	N	No stop (not available on crossarm mounting)
Blade stop for bypass disconnect blade	А	90° stop (required on crossarm mounting)
	В	160° stop (not available on crossarm mounting)
Insulators	Р	Porcelain
ii isulatoi s	J	Silicone
	С	NEMA 2-hole with two-piece clamshell #2-500MCM (10013A44A01)
Terminal connectors	N	NEMA 2-hole pad – standard
	Н	NEMA 2-hole with two-piece clamshell 4/0-500MCM (10013A44A02)
	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° from horizontal
Mounting brackets	Q	Same as "P", but accommodates 3/4" hardware
	Υ	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)
	Т	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
CONTINUOUS CUITORIL	9	900 amperes
Specials	0	None

Example: R1NAPNPL60 = RBD, 15 kV, 110 kV BIL, no stops on parallel blades, 90° stop on bypass blade, porcelain insulators, 2-hole NEMA pads, polemount frame, left hand operation of bypass blade, 600 A, no specials

### **RBD** unit dimensions

Voltage	BIL		Ą		В	(	;	С	)	Е			F	G	à	Н		ı		,	J	Porce weig		Silic wei	
(kV)	(kV)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(lb)	(kg)	(lb)	(kg)
15	110	12.22	310	12.50	317	20.86	530	14.03	356	8.0	203	22.6	574	11.67	296	22.49	571	11.43	290	5.50	140	91	41	54	24
27	125	15.63	397	15.90	404	24.27	617	15.03	382	9.0	229	26.0	660	15.07	383	25.82	656	13.13	333	5.50	140	99	45	55	25
38	150	15.63	397	15.90	404	24.27	617	15.03	382	10.0	254	26.0	660	15.07	383	25.82	656	13.13	333	5.50	140	103	47	57	26

# 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.

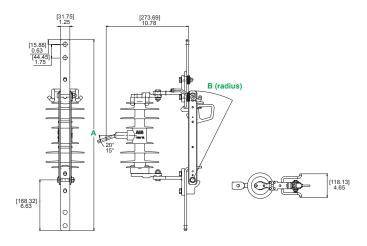
### Mounting

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



### **Outline drawing**



#### SID unit dimensions

			Dir	m A	Dii	m B	Creep		Str	rike
Туре	Voltage rating (kV)	BIL (kV)	(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	BII	Continuous	Porc	elain	Poly		Silic	one
class (kV)	(kV)	current (A)	(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)	BIL (kV)	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

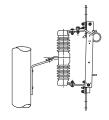
Description	Code	Definition
Switch type	D	Type SID Switch
	1	15 kV, 110 kV BIL
	2	27 kV, 125 kV BIL
Max kV, BIL	4	27 kV, 150 kV BIL
	5	38 kV, 150 kV BIL
	7	38 kV, 170 kV BIL (26" creep, porcelain only)
	9	38 kV, 170 kV BIL (30" creep, porcelain only)
	N	No stop
Blade stop	R	90° stop
	В	160° stop
	А	NEMA 2-hole with captured 0.5" hardware (galvanized)
	С	NEMA 2-hole with two-piece clamshell #2-500MCM (10013A44A01)
rminal connectors	D	NEMA 2-hole with double eyebolt terminal #2-350MCM
	Н	NEMA 2-hole with two-piece clamshell 4/0-500MCM (10013A44A02)
	T	NEMA 2-hole pad – standard
	В	NEMA B bracket only (403A101A03)
Brackets	Е	Extended bracket (367C802A04)
Diackets	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
	А	Porcelain
Insulator	J	Silicone
	Z	Polymer concrete

 $\textbf{Example: D1RHNL600A = SID, 15 kV, 110 kV BIL, 90° stop, NEMA 2-hole pads with clamshell 4/0-500MCM, no bracket, galvanized hooks, 600 A, no special options } \\ \textbf{Example: D1RHNL600A = SID, 15 kV, 110 kV BIL, 90° stop, NEMA 2-hole pads with clamshell 4/0-500MCM, no bracket, galvanized hooks, 600 A, no special options } \\ \textbf{Example: D1RHNL600A = SID, 15 kV, 110 kV BIL, 90° stop, NEMA 2-hole pads with clamshell 4/0-500MCM, no bracket, galvanized hooks, 600 A, no special options } \\ \textbf{Example: D1RHNL600A = SID, 15 kV, 110 kV BIL, 90° stop, NEMA 2-hole pads with clamshell 4/0-500MCM, no bracket, galvanized hooks, 600 A, no special options } \\ \textbf{Example: D1RHNL600A = SID, 15 kV, 110 kV BIL, 90° stop, NEMA 2-hole pads with clamshell 4/0-500MCM, no bracket, galvanized hooks, 600 A, no special options } \\ \textbf{Example: D1RHNL600A = SID, 15 kV, 110 kV BIL, 90° stop, NEMA 2-hole pads with clamshell 4/0-500MCM, no bracket, galvanized hooks, 600 A, no special options } \\ \textbf{Example: D1RHNL600A = SID, 15 kV, 110 kV BIL, 90° stop, NEMA 2-hole pads with clamshell 4/0-500MCM, no bracket, galvanized hooks, 600 A, no special options } \\ \textbf{Example: D1RHNL600A = SID, 15 kV, 110 kV BIL, 90° stop, NEMA 2-hole pads with clamshell 4/0-500MCM, no bracket, galvanized hooks, 600 A, no special options } \\ \textbf{Example: D1RHNL600A = SID, 15 kV, 110 kV BIL, 90° stop, 100° kV, 100°$ 

## SID mounting configurations



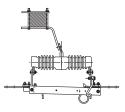
Crossarm, extended angle



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.

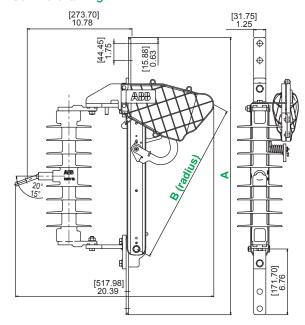
### Mounting

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

			Di	m A	Di	m B	Cr	еер	Strike		
Туре	Voltage rating (kV)	BIL (kV)	(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	BIL	Continuous	Porce	elain	Poly conc		Silicone		
class (kV)			(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 ratings

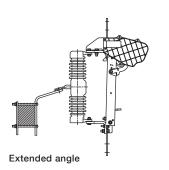
Maximum voltage (kV)	BIL (kV)		Loadbreak current (A)	Peak withstand current (kA Asym)
15	110	600	600	65
15/27	125	600	600	65
15/27	150	600	600	65
15	110	900	600	65
15/27	125	900	600	65
15/27	150	900	600	65

## LSID selection guide

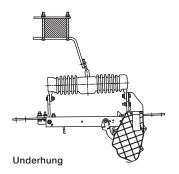
Description	Code	Definition
Switch type	В	Type LSID loadbreak switch
	1	15 kV, 110 kV BIL
Marcial Dil	2	15/27 kV, 125 kV BIL
Switch type  Max kV, BIL  Blade stop  Terminal connectors  Brackets  Jnused  Continuous current/loadbreak  Jnused	4	15/27 kV, 150 kV BIL
	7	15/27 kV, 170 kV BIL (26" creep, porcelain only)
	N	No stop
Blade stop	R	90° stop
	В	160° stop
	А	NEMA 2-hole with captured 0.5" hardware (galvanized)
	С	NEMA 2-hole with two-piece clamshell #2-500MCM
Terminal connectors	D	NEMA 2-hole with double eyebolt terminal #2-350MCM
	Н	NEMA 2-hole with two-piece clamshell 4/0-500MCM
	Т	NEMA 2-hole pad – standard
	В	NEMA B bracket only (403A101A03)
Producto	Е	Extended bracket (367C802A04)
DIACKEIS	U	U pole mounting bracket (403A101A03 and 3905B11H02)
	N	No bracket
Unused	N	Space holder for future options
Continuous current/loadhroak	6	600 ampere continuous/600 amperes MAX loadbreak
Continuous current/loadbreak	9	900 ampere continuous/600 amperes MAX loadbreak
Unused	0	Space holder for future options
Unused	0	Space holder for future options
	А	Porcelain
Insulators	J	Silicone
	Z	Polymer concrete

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

## LSID mounting configurations







# 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)



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

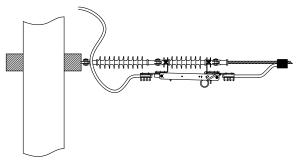
A blade stop limits the blade range of motion to the 90° and 160° positions, and a latch prevents the switch from opening under high momentary current.

### Insulator details

Voltage class	BIL	Creep (silicone)				
(kV)	(kV)	(in)	(mm)			
15 & 27	150	23.23	590			
27 & 38	200	39.00	991			



### ITD mounting configuration



#### **Ratings**

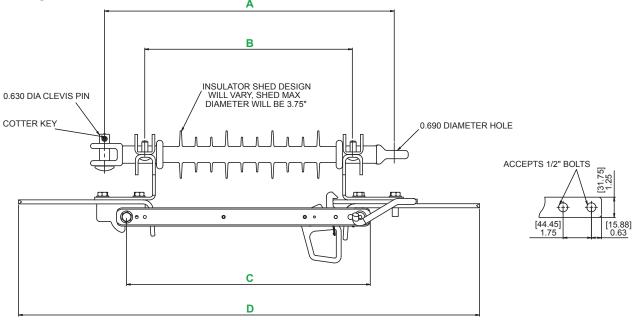
Maximum voltage (kV)	BIL (kV)	Continuous current (A)	Peak withstand current (kA Asym)			
15 & 27	150	600/900	65			
27 & 38	200	600/900	65			

## ITD selection guide

Description	Code	Definition
Switch type	Т	Type ITD switch
MIA/ DII	3	38 kV, 200 kV BIL
Max kV, BIL	5	27 kV, 150 kV BIL
	N	No stop
Blade stop	A	90° stop
	В	160° stop
	A	NEMA 2-hole with captured 0.5" hardware (galvanized)
	С	NEMA 2-hole with two-piece clamshell #2-500MCM (10013A44A01)
Terminal connectors	D	NEMA 2-hole with double eyebolt terminal (#2-350 MCM)
	N	NEMA 2-hole pad – standard
	Н	NEMA 2-hole with two-piece clamshell 4/0-500MCM (10013A44A02)
	A	Tongue/tongue (TT), silicone
Insulator	В	Clevis/clevis (CC), silicone
Insulator	М	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
Continuous current	9	900 amperes
Specials	0	None
Unused	0	Space holder for future options
Unused	0	Space holder for future options

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

# Outline drawing



### ITD unit dimensions

Voltage class	BIL	BIL A			В		С		D		Silicone weight	
(kV)	(kV)	(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	

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