

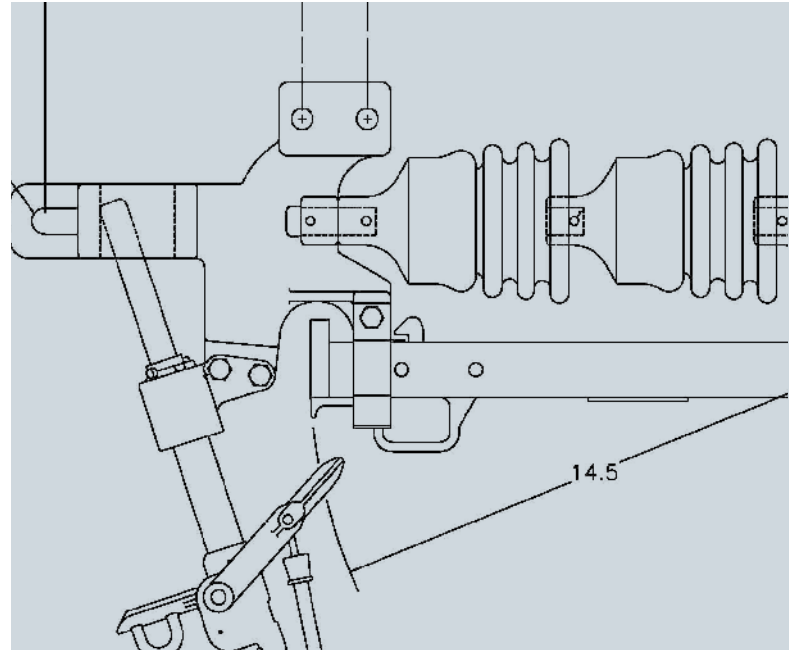
## Distribution class disconnects

Type LER, SE, SER, EF and E

Answers for energy.

**SIEMENS**

## The Bridges Electric™ line tension disconnect

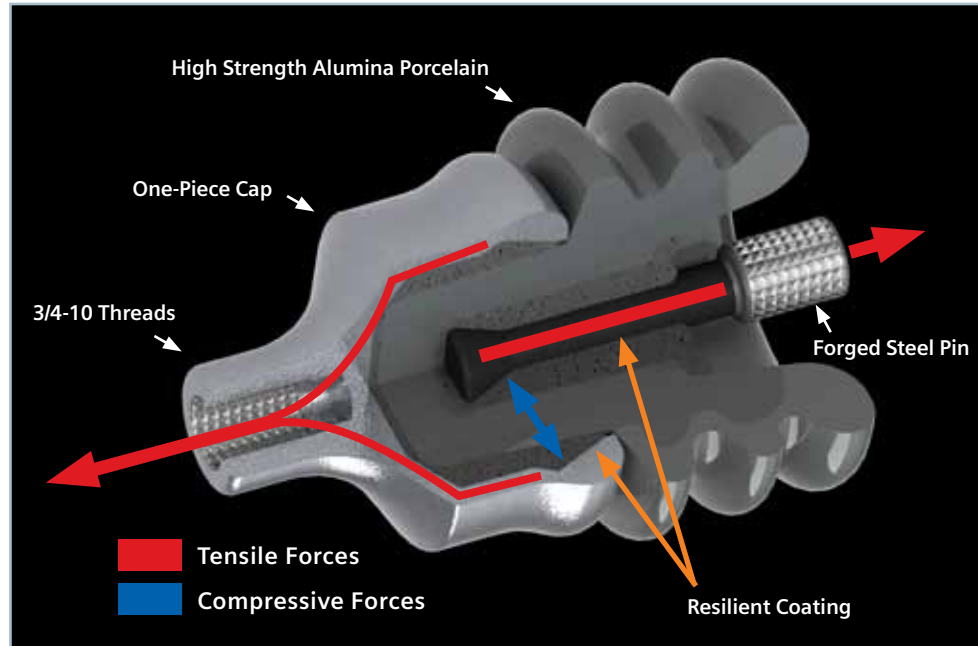


The Bridges Electric™ type SE and type SEL line tension disconnects are ruggedly built, reliable devices that splice right onto the line, safely supporting the conductor while providing the required insulation gap for quick and safe line maintenance. The switches offer these advantages:

- Classic solid porcelain electrical insulation with no porcelain in tension
- Multiple insulator units per switch for maximum safety
- Lightweight design minimizes conductor loading – may be used with smaller conductors
- Slim 4 1/4" diameter insulator profile – easier to cover for hot line work
- Rigid square tubular blade and high-pressure coin silver contacts
- Loadbreak hooks available
- Loadbreak versions available
- Quick break versions available
- Closer arm versions available.

# The Bridges Electric™ strain insulator assembly

*During and after assembly, rigorous quality control and tensile proof tests ensure that this is a strain insulator worthy of a Bridges Electric type SE or type SEL line tension switch.*



A line tension switch, by the nature of its application, must mechanically support the line and provide high-voltage electrical insulation when the switch is in the open position. Almost since the inception of the electrical power industry, the most dependable means of providing these two basic functions has been the porcelain strain insulator. This classic design approach imposes primarily compressive stresses in the porcelain shell when the unit is subjected to tensile loads. The conversion of tensile forces to compressive stress comes about through inclusion of properly placed angular surfaces. The metallic surfaces involved are coated with a thin, resilient coating that allows a slight amount of relative movement producing a wedging action. This action places the porcelain in a compressive load,

taking advantage of relatively high compression strength, and avoids sheer and tension stresses, which porcelain does not handle exceptionally well. Another benefit of this classic design is the complete enclosure of the stressed porcelain within a solid metal housing, which is the "cap" of the strain insulator. The insulator assemblies for the Bridges Electric type SE and type SEL series of line tension switches are manufactured from high-strength, chip-resistant, alumina porcelain shells. A one-piece cast cap, a forged steel pin and premium zero-shrink grout complete the assembly of the insulator units. A precision assembly jig ensures dimensional and mechanical consistency.

## The Bridges Electric™ type SE with loadbreak hooks

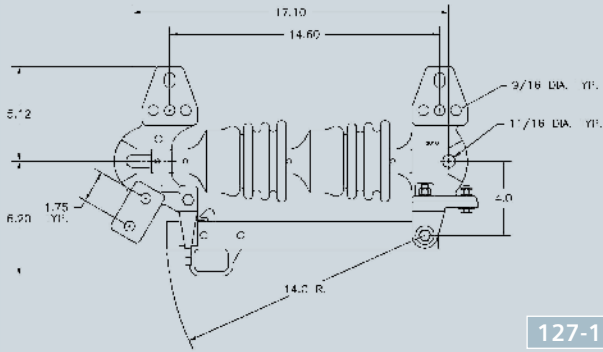


### For use with a loadbreak tool

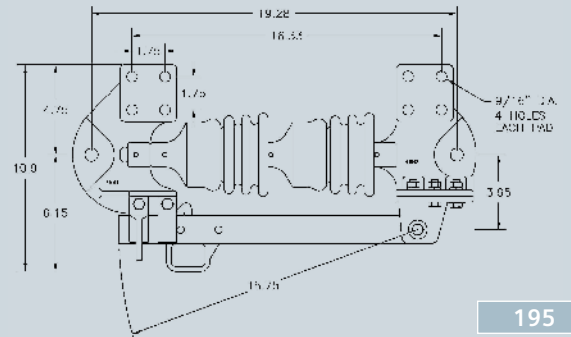


- 180° blade catch is standard on catalog number 395
- Available as an option on all other catalog numbers with loadbreak hooks

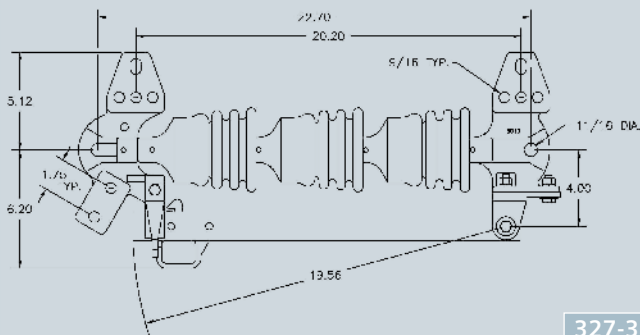
# The Bridges Electric™ type SE with loadbreak hooks



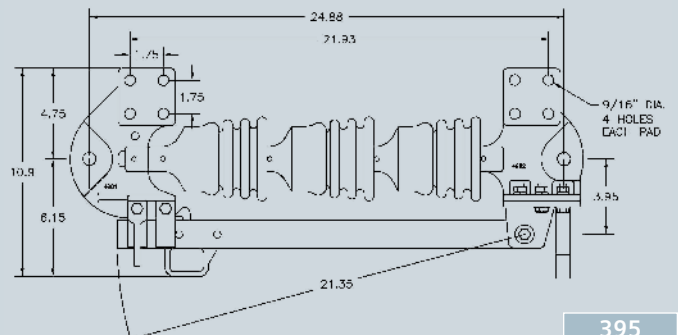
127-129



195



327-329



395

## For use with a loadbreak tool

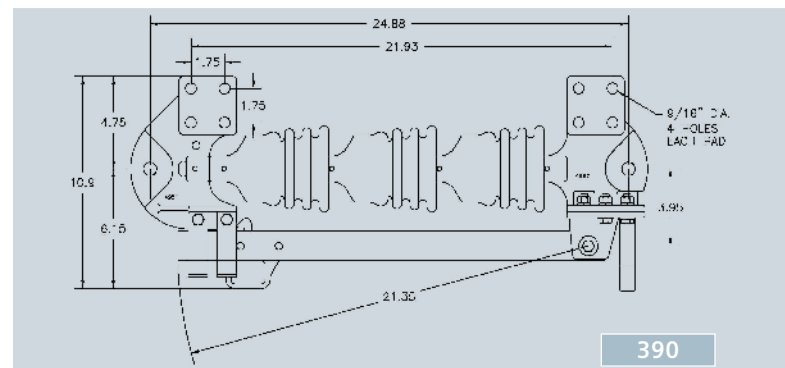
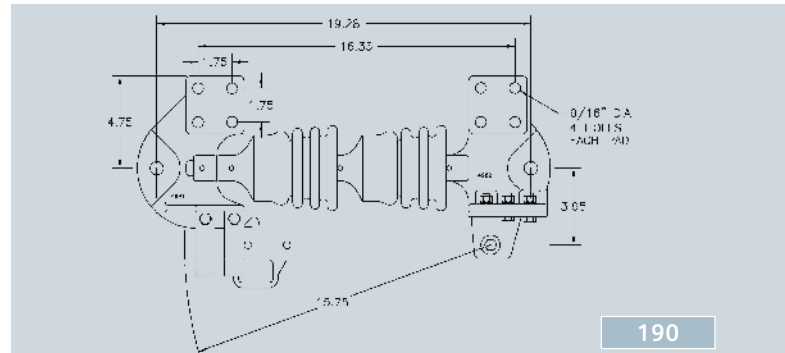
- Tensile tested: 7,500 lbs.
- Ultimate tensile: 15,000 lbs.

600 A			
Catalog number	Max. kV	kV BIL	Net weight
127	25	150	17 lb.
327	38	200	22 lb.

900 A			
Catalog number	Max. kV	kV BIL	Net weight
129	25	150	18 lb.
329	38	200	23 lb.

1,200 A			
Catalog number	Max. kV	kV BIL	Net weight
195	25	150	20 lb.
395	38	200	26 lb.

## The Bridges Electric™ type SE non-loadbreak



**For use where a loadbreak provision is not required**

- 180° blade catch is standard on catalog number 390
- Available as an option on catalog number 190

1,200 A			
Catalog number	Max. kV	kV BIL	Net weight
190	25	150	20 lb.
390	38	200	26 lb.

- Tensile tested: 7,500 lbs.
- Ultimate tensile: 15,000 lbs.



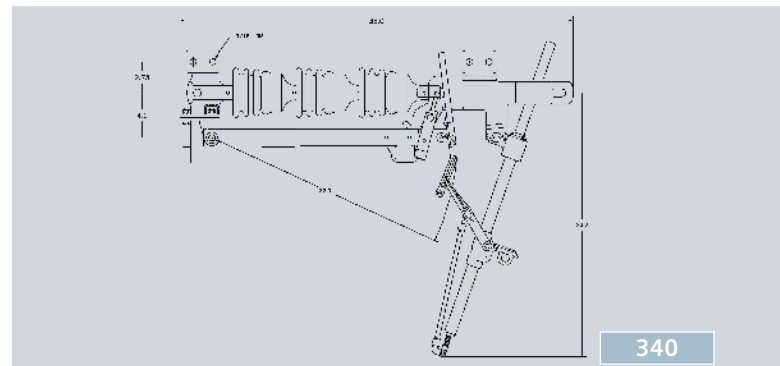
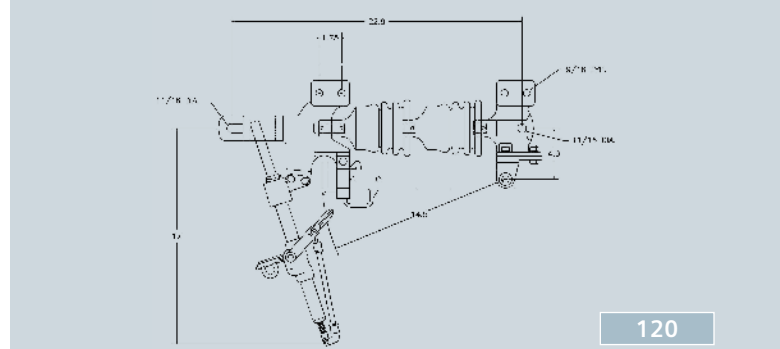
## The Bridges Electric™ type SE with quick break



**All the quality of a standard switch,  
but with a quick-break device**

- The quick-break option is applicable to all distribution class hookstick disconnects
- Add "QB" as a suffix to the catalog number (for example: 127QB)
- 180° blade catch is standard on all 200 kV BIL quick-break switches
- All other dimensions and ratings are the same as the standard switch equivalent

# The Bridges Electric™ type SEL with Saf-T-Gap interrupter



600 A			
Catalog number	Max. kV	kV BIL	Net weight
120	25	150	20 lb.
340	38	200	32 lb.

- Tensile tested: 5,000 lbs.
- Ultimate tensile: 10,000 lbs.

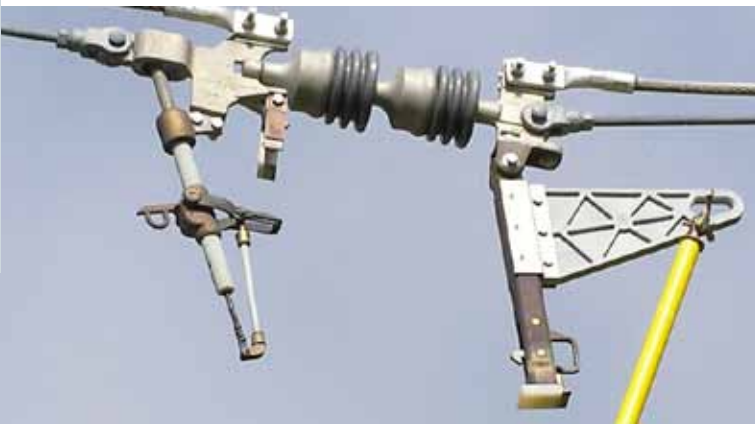
The type SEL offers all the benefits of the standard type SE switches plus the same high quality Saf-T-Gap expansion interrupter. The Saf-T-Gap interrupter changes in seconds with a standard shotgun-style hookstick.

- 180° blade catch is standard on catalog number 340
- Available as an option on catalog number 120

## The Bridges Electric™ line tension disconnect with closer arm



Pull the switch to open via the pull ring...



Pull the switch to close via the closer arm...



The closer arm option allows for installation of the switch farther away from the crossarm and is applicable to most type SE and type SEL switches

- Not compatible with switches having a 180° blade catch
- Add the letter "V" as a suffix to the catalog number (for example: 127 V)
- Retrofit kit available to retrofit existing type SE and type SEL switches

# The Bridges Electric™ line tension disconnect accessories



**Stabilink clamping stabilizer**

- Mounts to any tie-top insulator
- Completely adjustable



**Trunnion links**

- End fittings may be rotated and re-tightened



**Extension links**

- End fittings may be rotated and re-tightened



**Cable connector**

- Hot tin-dipped red brass with stainless steel hardware
- Fits any 1.75" terminal
- Conductor ranges
  - #6 – 397.5 MCM ACSR
  - #4 – 500 MCM copper

## The Bridges Electric™ line tap disconnect



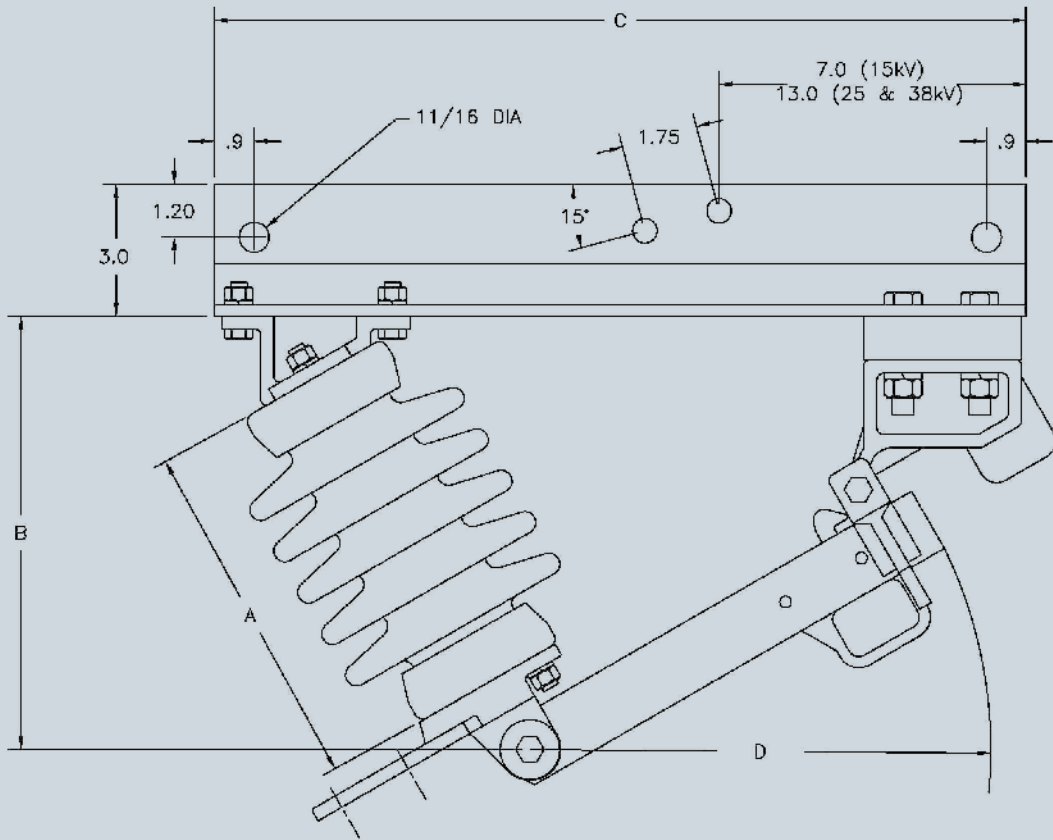
The Bridges Electric type LER line tap disconnect is a rugged and reliable disconnect device that may be used either in tension or clamped onto the line for a wide array of cable-riser and crossover applications.

These switches feature a sturdy and well-ventilated square tubular copper blade and high-pressure silver contacts for superior current carrying characteristics.

In addition to a positive latch, all switches come with an exclusive opening mechanism to ease hookstick operation even after years in service.

Many available options, accessories and mounting configurations make the type LER a flexible solution to any overhead line tap application where dependable operation in a lightweight package is required.

# The Bridges Electric™ type LER with loadbreak hooks



For use with a  
loadbreak tool

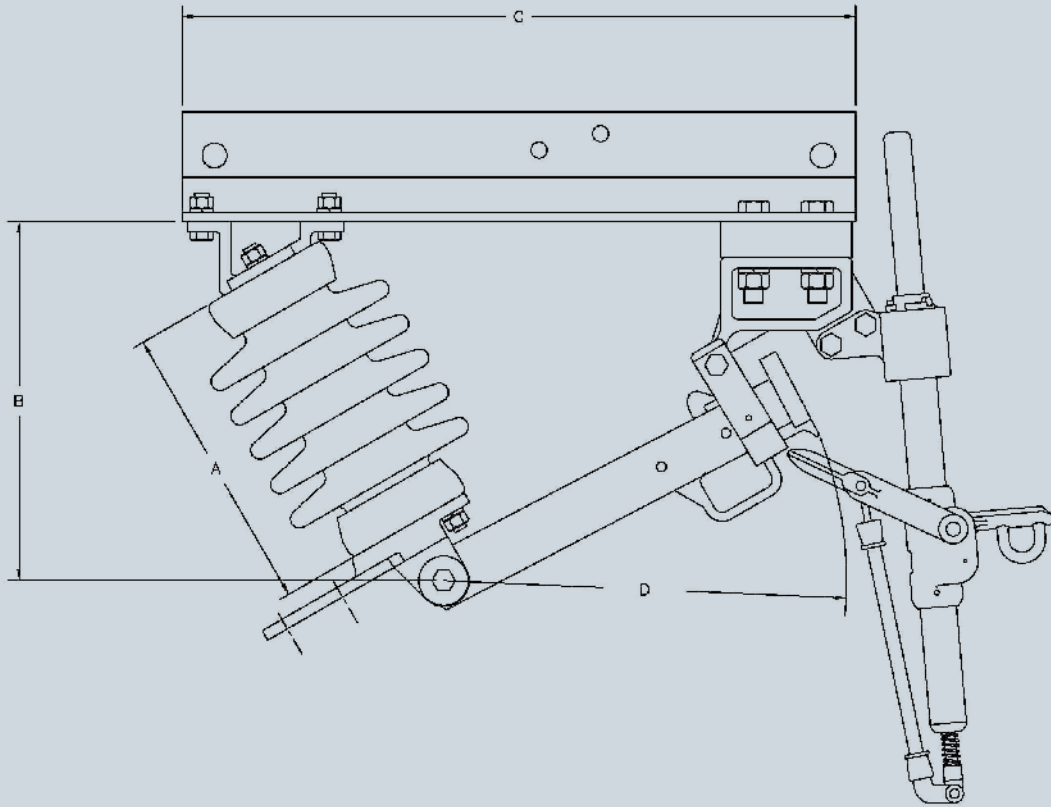
			600 A				
			Dimensions - inches				
Catalog number	Max. kV	kV BIL	A	B	C	D	Net weight*
LER264	15	110	8	9.9	18.5	10.5	19 lbs.
LER364	25	150	10	11.6	25	14.8	21 lbs.
LER464	38	150	10	11.6	25	14.8	21 lbs.

\* Weight reflects porcelain insulators.  
Polymer insulators available.

			900 A				
			Dimensions - inches				
Catalog number	Max. kV	kV BIL	A	B	C	D	Net weight*
LER294	15	110	8	9.9	18.5	10.5	21 lbs.
LER394	25	150	10	11.6	25	14.8	23 lbs.
LER494	38	150	10	11.6	25	14.8	23 lbs.

\* Weight reflects porcelain insulators.  
Polymer insulators available.

# The Bridges Electric™ type LER with Saf-T-Gap interrupter



The type LER offers all the benefits of the standard type LER switches plus the same high quality Saf-T-Gap expulsion interrupter. The Saf-T-Gap interrupter changes in seconds with a standard shotgun-style hookstick.

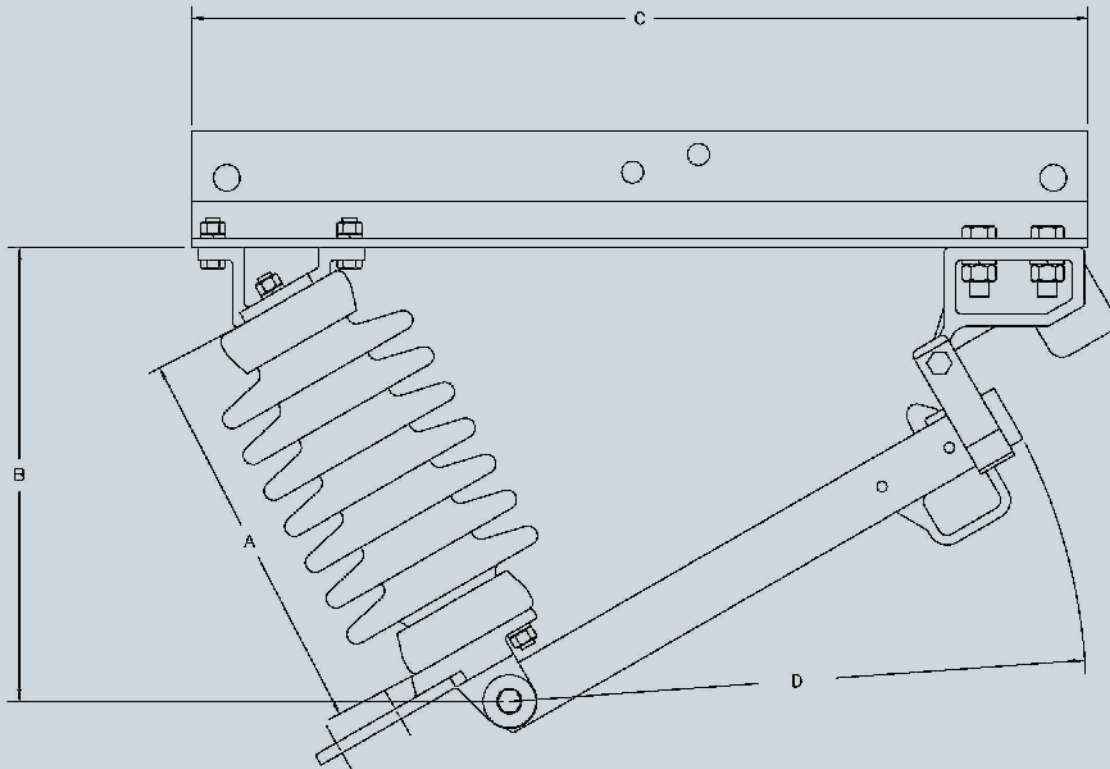
600 A							
			Dimensions - inches				
Catalog number	Max. kV	kV BIL	A	B	C	D	Net weight*
LER265	15	110	8	9.9	18.5	11.1	23 lbs.
LER365	25	150	10	11.6	23	15.3	25 lbs.

\* Weight reflects porcelain insulators.  
Polymer insulators available.

900 A							
			Dimensions - inches				
Catalog number	Max. kV	kV BIL	A	B	C	D	Net weight*
LER295	15	110	8	9.9	18.5	11.1	24 lbs.
LER395	25	150	10	11.6	23	15.3	26 lbs.

\* Weight reflects porcelain insulators.  
Polymer insulators available.

## The Bridges Electric™ type LER non-loadbreak



**For use where a loadbreak provision is not required**

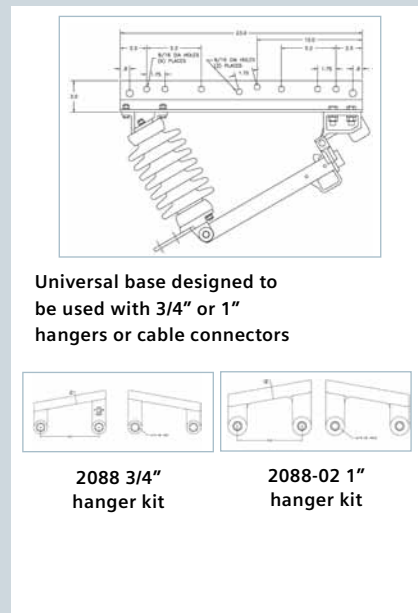
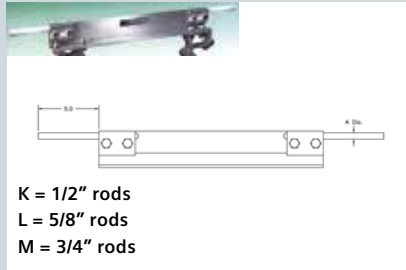
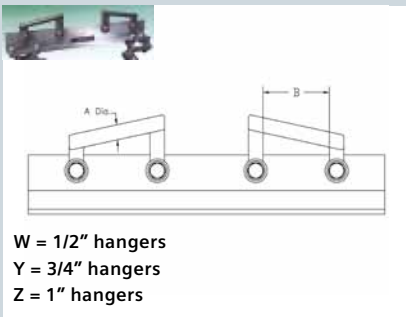
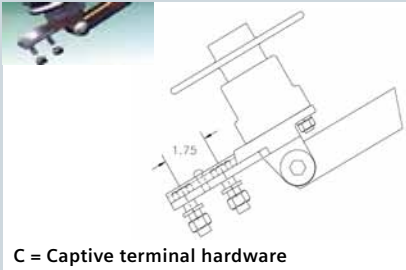
600 A							
			Dimensions - inches				
Catalog number	Max. kV	kV BIL	A	B	C	D	Net weight*
LER267	15	110	8	9.9	18.5	10.5	19 lbs.
LER367	25	150	10	11.6	25	14.8	21 lbs.
LER467	38	150	10	11.6	25	14.8	21 lbs.

\* Weight reflects porcelain insulators.  
Polymer insulators available.

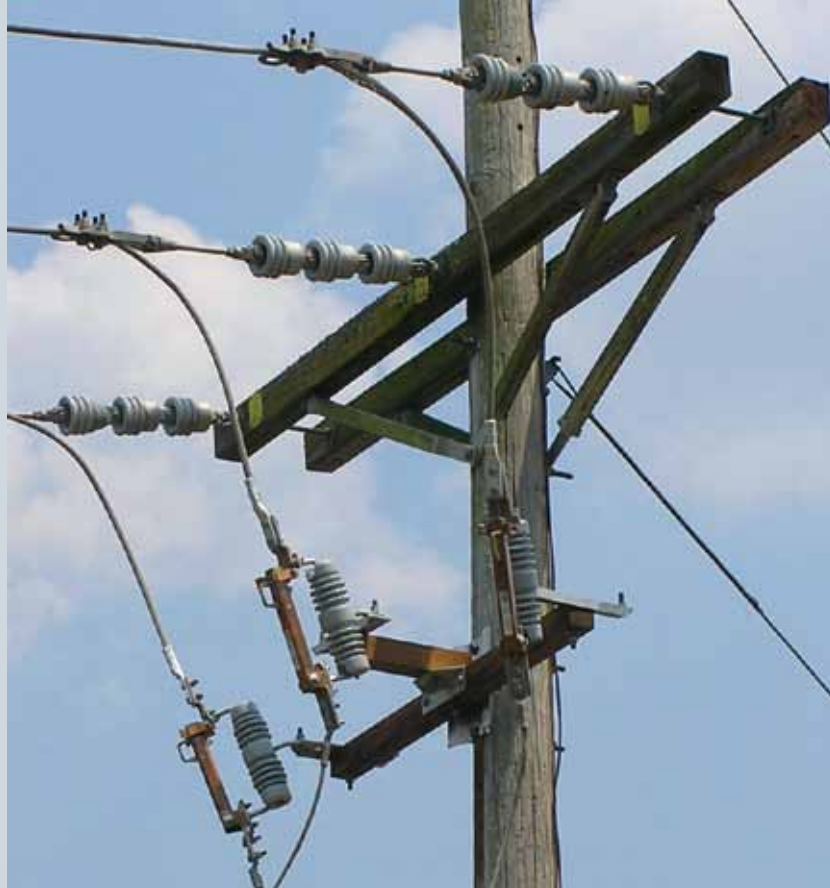
900 A							
			Dimensions - inches				
Catalog number	Max. kV	kV BIL	A	B	C	D	Net weight*
LER297	15	110	8	9.9	18.5	10.5	21 lbs.
LER397	25	150	10	11.6	25	14.8	23 lbs.
LER497	38	150	10	11.6	25	14.8	23 lbs.

\* Weight reflects porcelain insulators.  
Polymer insulators available.

# The Bridges Electric™ line tap disconnect options/accessories



## The Bridges Electric™ type SER single insulator disconnect

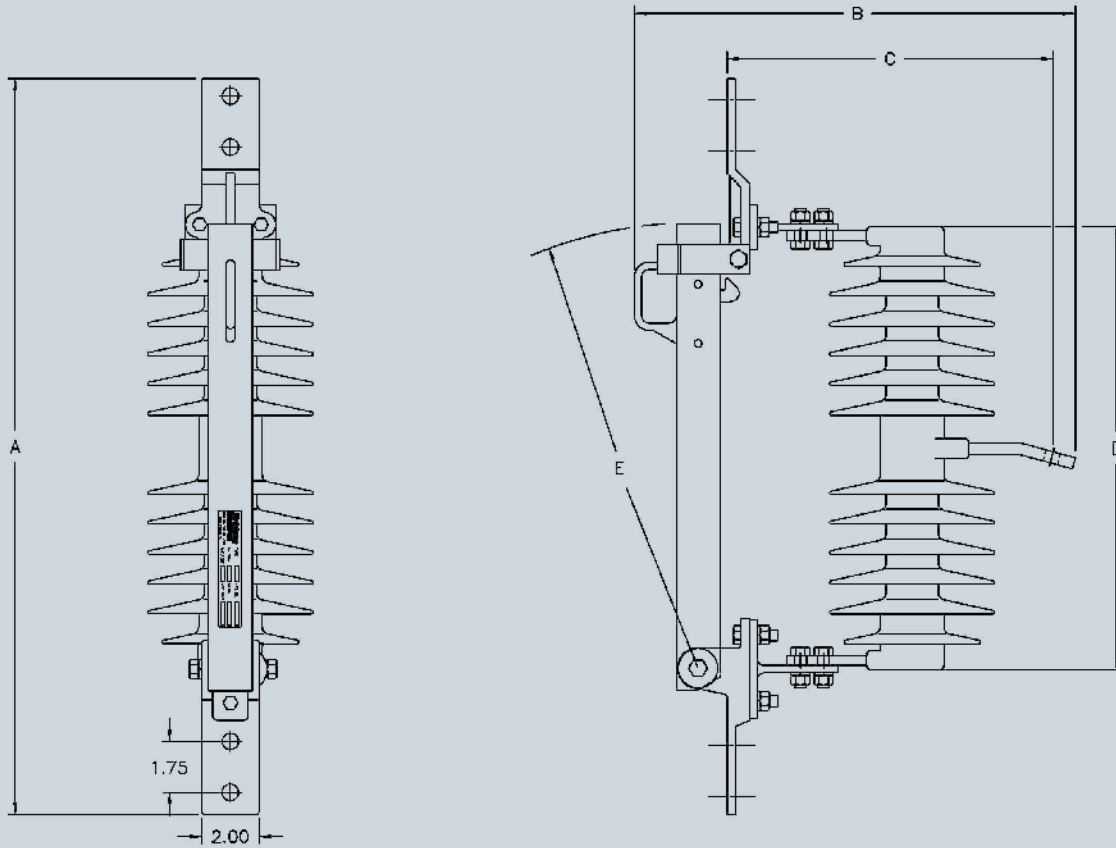


The Bridges Electric type SER single insulator disconnect is a rugged and reliable disconnect where dependable operation in a lightweight package is required.

These switches feature a sturdy and well-ventilated square tubular copper blade and high-pressure silver contacts for superior current carrying characteristics. In addition to a positive latch, all switches come with an exclusive opening mechanism to ease hookstick operation, even after years of service.

Many available options, accessories and mounting configurations make the type SER a flexible and low-cost switch solution.

# The Bridges Electric™ type SER single insulator disconnect



600 A									
Catalog number	Max. kV	kV BIL	Dimensions - inches					Porcelain	Polymer
			A	B	C	D	E		
SER267	15	110	21.6	12.53	8.62	11.26	11.15	15 lbs.	10 lbs.
SER367	25	150	25.25	14.4	10.5	14.82	15.25	23 lbs.	18 lbs.
SER467	38	200	31.38	19.85	15.89	21.38	21.5	*	23 lbs.

\* Catalog number SER467 available in polymer only

600 A									
Catalog number	Max. kV	kV BIL	Dimensions - inches					Porcelain	Polymer
			A	B	C	D	E		
SER297	15	110	21.6	12.53	8.62	11.26	11.5	16 lbs.	11 lbs.
SER397	25	150	25.25	14.4	10.5	14.82	15.25	24 lbs.	19 lbs.
SER497	38	200	31.38	19.85	15.89	21.38	21.5	*	24 lbs.

\* Catalog number SER497 available in polymer only

## Type SER numbering system

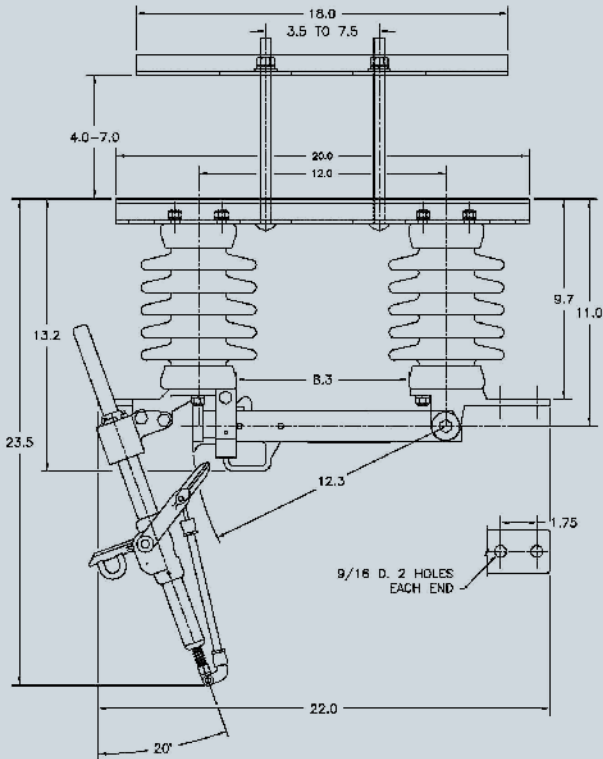
S E R X X 7 X

15 kV; 110 kV BIL	2
25 kV; 150 kV BIL	3
38 kV; 200 kV BIL	4

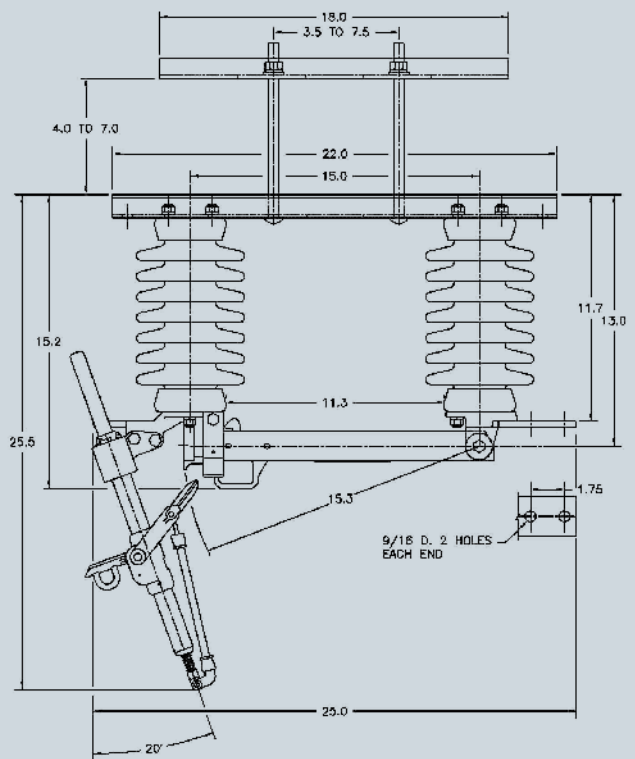
600 A continuous current	6
900 A continuous current	9

A	Cable connectors
B1	Extended mounting bracket for X-ARM mounting
B2	
B3	
H	Loadbreak hooks
L	Plug-In Saf-T-Gap interrupter
P	Polymer insulator
QB	Quick break
U	Underhung mounting
S	Hot line stud

# The Bridges Electric™ type E distribution interrupter switch with Saf-T-Gap interrupter



200



300-01

## The Saf-T-Gap interrupter changes in seconds with a standard shotgun-style hookstick.



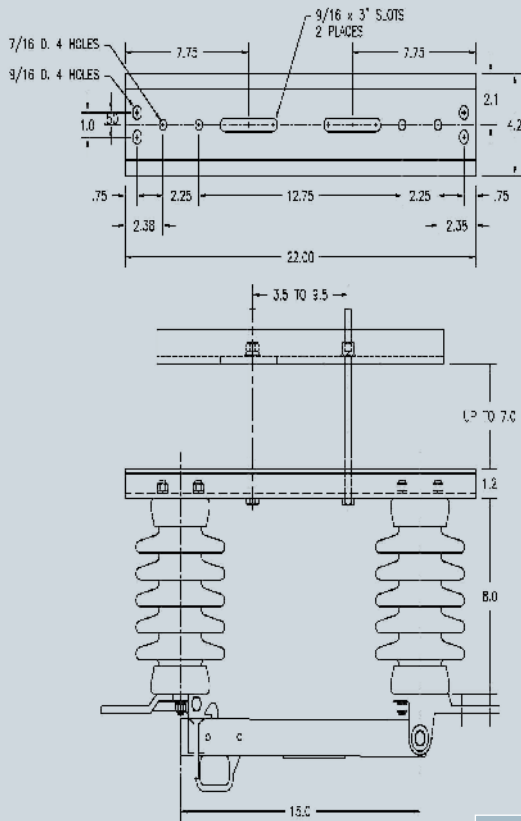
The Bridges Electric type E interrupter switch is applicable on all circuits up to 600 amperes. Although a distribution class switch, the type E meets power class standards for the continuous current rating of 600 amperes. It is available in 15 kV and 25 kV ratings.

The Saf-T-Gap interrupter can be purchased as part of the original equipment or can be added later when live line switching may be required. It can be used for transformer magnetizing current, line charging current and loop switching, as well as emergency load dropping.

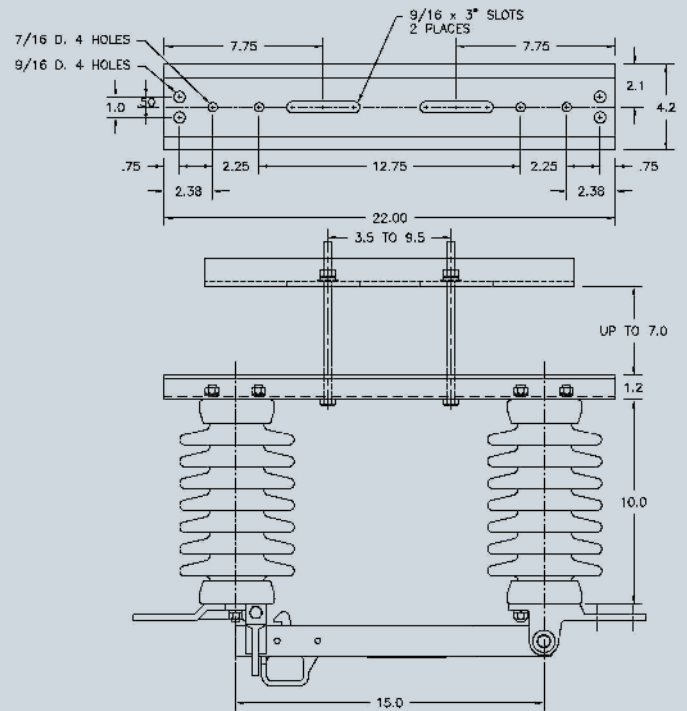
600 A			
Catalog number	Max. kV	kV BIL	Net weight
200	15	110	43 lbs.
300-01	25	150	49 lbs.

\* Weight reflects porcelain insulators. Polymer insulators available.

# The Bridges Electric™ type EF distribution class disconnect with loadbreak hooks

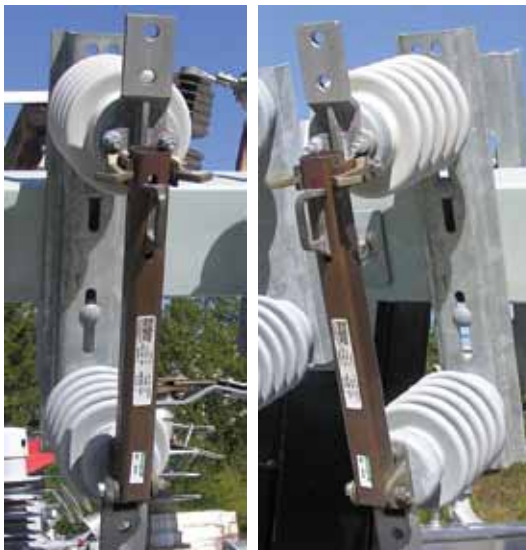


202-02XT



302-02XT

## For use with a loadbreak tool



NOTE: Add suffixes below to catalog numbers for the option described:

- P = Polymer insulator
- K = Cable connector
- #6 - 397.5 MCM ACSR
- #6 - 500 MCM copper
- QB = Quick break
- T = Tinned terminal pads
- X = Backplate set

EXAMPLE: 202-02XPT = Type EF, 15 kV, 110 kV BIL, 600 A, backplate set, polymer insulators and tinned terminal pads

600 A and 900 A			
Catalog number	Max. kV	kV BIL	Net weight
202	15	110	37 lbs.
302	25	150	39 lbs.
402	38	150	39 lbs.

\* Weight reflects porcelain insulators. Polymer insulators available.

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Siemens AG  
Energy Sector  
Freyeslebenstrasse 1  
91058 Erlangen, Germany

Siemens Energy, Inc.  
99 Bolton Sullivan Drive  
Heber Springs, AR 72543  
Phone: +1 (501) 362-8296  
Toll-free: +1 (800) 347-6659

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