





# Medium voltage distribution components

## Overview of overhead distribution cutouts, overhead disconnect switches, and capacitor fuses






### Overhead Distribution Cutouts

Product	Description	Application	Options
 <p><b>Type ICX</b></p>	<ul style="list-style-type: none"> <li>- Distribution cutout for use on overhead distribution system to provide overcurrent protection</li> <li>- Fusetube interchangeable with S&amp;C Type XS, Cooper Type L, and Hubbell Chance Type C cutouts</li> <li>- 15 kV – 38 kV, up to 20 kAIC</li> </ul>	<ul style="list-style-type: none"> <li>- Provides visible indication of fuse operation and a visible break sectionalizing point for maintenance personnel</li> <li>- Can function as a loadbreak switch when used in conjunction with a portable loadbreak tool</li> </ul>	<ul style="list-style-type: none"> <li>- Porcelain, silicone rubber (110 -180 kV BIL), or polymer concrete insulator (110 and 125 kV BIL)</li> <li>- Stainless steel seacoast design</li> <li>- Cutout/arrester combination</li> <li>- 100 and 200 A fuse holders available</li> <li>- 300 A disconnect blade</li> <li>- Kickout spring (100 A only)</li> </ul>
 <p><b>Type LBU-II</b></p>	<ul style="list-style-type: none"> <li>- Distribution cutout for use on overhead distribution system to provide overcurrent protection</li> <li>- Loadbreak interruption is accomplished by means of a self-contained loadbreak arc chute, which confines the arc and provides a deionizing action</li> <li>- 15, 27, or 20/34.5 kV, up to 20 kAIC</li> </ul>	<ul style="list-style-type: none"> <li>- Provides overcurrent protection for capacitor banks and gives visible indication that the equipment is energized</li> <li>- Used for switching the magnetizing currents of single and three-phase transformer banks and switching capacitive currents associated with underground feeder cable at the riser pole</li> </ul>	<ul style="list-style-type: none"> <li>- Porcelain, silicone rubber (110 - 150 kV BIL), or polymer concrete insulator (110 and 125 kV BIL)</li> <li>- Cutout/arrester combination</li> <li>- 100 and 200 A fuse holders available</li> <li>- 300 A disconnect blade</li> </ul>
 <p><b>Type NCX</b></p>	<ul style="list-style-type: none"> <li>- Distribution cutout for overcurrent protection on overhead distribution systems</li> <li>- 15 kV – 38 kV, up to 20 kAIC</li> </ul>	<ul style="list-style-type: none"> <li>- Provides visible indication of fuse operation and a visible break sectionalizing point for maintenance personnel</li> <li>- Can function as a loadbreak switch when used in conjunction with a portable loadbreak tool</li> </ul>	<ul style="list-style-type: none"> <li>- Porcelain, silicone rubber (110 - 200 kV BIL), or polymer concrete insulator (110 and 125 kV BIL)</li> <li>- Cutout/arrester combination</li> <li>- 100 and 200 A fuse holders available</li> <li>- 300 A disconnect blade</li> </ul>
 <p><b>Type EU</b></p>	<ul style="list-style-type: none"> <li>- Enclosed cutout in porcelain or polymer concrete housing</li> <li>- Designed for either dropout or non-dropout operation</li> <li>- For outdoor use</li> <li>- 8.3 kV, up to 8 kAIC</li> <li>- Provides no exposed live parts</li> </ul>	<ul style="list-style-type: none"> <li>- Used in replacement applications in close spaces where there are increased safety needs</li> </ul>	<ul style="list-style-type: none"> <li>- 100 A fuse holder</li> <li>- 200 A disconnect blade</li> </ul>

## Overhead Disconnect Switches

Product	Description	Application	Options
 <p><b>Type SID</b></p>	<ul style="list-style-type: none"> <li>– Single insulator disconnect with a double blade door and two 2-hole extended NEMA pad terminals</li> <li>– 15 kV – 38 kV, 600 or 900 A continuous load with a 40 kA momentary rating</li> <li>– 65 kA peak and 25 kA short time current withstand</li> </ul>	<ul style="list-style-type: none"> <li>– Single-phase disconnect on overhead distribution feeders and in outdoor distribution substations</li> <li>– Can be mounted like a standard cutout</li> <li>– Loadbreak hooks allow for operation with a portable loadbreak tool</li> </ul>	<ul style="list-style-type: none"> <li>– Porcelain, polymer concrete, or silicone rubber insulator (110 - 170 kV BIL)</li> <li>– Mounting kit available</li> <li>– 90° or 160° blade stop available</li> </ul>
 <p><b>Type LSID</b></p>	<ul style="list-style-type: none"> <li>– Loadbreak single insulator disconnect with self-contained loadbreak capabilities, a double blade door, and two 2-hole NEMA pad terminals</li> <li>– 15.5 kV – 15/27 kV, 600 A continuous and loadbreak with a 40 kA momentary rating</li> <li>– 65 kA peak and 25 kA short time current withstand</li> </ul>	<ul style="list-style-type: none"> <li>– Single-phase disconnect on overhead distribution feeders and in outdoor distribution substations</li> <li>– Self-contained loadbreak enables lineman to interrupt load current with a hookstick</li> <li>– Can be mounted like a standard cutout</li> </ul>	<ul style="list-style-type: none"> <li>– Porcelain, polymer concrete, or silicone rubber insulator (110 - 170 kV BIL)</li> <li>– Mounting kit available</li> <li>– 90° or 160° blade stop available</li> </ul>
 <p><b>Type LSID</b></p>	<ul style="list-style-type: none"> <li>– Double insulator single-phase disconnect switch</li> <li>– 15 kV – 38 kV, 600 or 900 A continuous loads with a 40 kA momentary rating</li> <li>– 65 kA peak and 25 kA short time current withstand</li> </ul>	<ul style="list-style-type: none"> <li>– Used for sectionalizing or isolating equipment on electrical distribution systems up to 38 kV</li> <li>– Can be mounted vertical or underhung, or on a single or double crossarm</li> <li>– Loadbreak hooks allow for operation with a portable loadbreak tool</li> </ul>	<ul style="list-style-type: none"> <li>– Porcelain or silicone rubber insulator (110 - 150 kV BIL)</li> <li>– 90° or 160° blade stop available</li> <li>– Mounting kit available</li> </ul>
 <p><b>Type DCD</b></p>	<ul style="list-style-type: none"> <li>– Single-phase by-pass disconnect switch</li> <li>– 15 kV – 38 kV, 600 or 900 A continuous loads with a 40 kA momentary rating</li> <li>– 65 kA peak and 25 kA short time current withstand</li> </ul>	<ul style="list-style-type: none"> <li>– Provides a means for bypassing and disconnecting reclosers, allowing maintenance on equipment without service interruption</li> <li>– Can be mounted in the following configurations: vertical or underhung, pole-mounted, or single or double crossarm</li> </ul>	<ul style="list-style-type: none"> <li>– Porcelain or silicone rubber insulator (110 - 150 kV BIL)</li> <li>– 90° or 160° blade stop available</li> <li>– Mounting kit available</li> </ul>
 <p><b>Type RBD</b></p>	<ul style="list-style-type: none"> <li>– Single-phase, inline tension disconnect switch with silicone insulator</li> <li>– Maximum voltage ratings: 27 kV (150 kV BIL) or 38 kV (200 kV BIL)</li> <li>– Continuous current rating - 600 A or 900 A</li> <li>– 65 kA peak and 25 kA short time current withstand</li> </ul>	<ul style="list-style-type: none"> <li>– Used for manual switching of parallel or de-energized circuits on overhead distribution lines rated up to 38 kV</li> <li>– Loadbreak hooks allow for operation with a portable loadbreak tool</li> </ul>	<ul style="list-style-type: none"> <li>– 90° or 160° stop blade available</li> </ul>
 <p><b>Type ITD</b></p>			

## Capacitor Fuses

Product	Description	Application
	<ul style="list-style-type: none"> <li>Indoor, 1.2 – 4.3 kV current limiting</li> <li>1200, 1800, and 3000 V ratings are current limiting, indicating, and non-disconnecting</li> <li>2500 V and 4.3/2.5 kV ratings are current limiting, non-indicating, and non-disconnecting</li> </ul>	<ul style="list-style-type: none"> <li>Individual unit fusing of low voltage single and three-phase capacitors in metal enclosed equipment</li> </ul>
<b>Type CLC</b> 	<ul style="list-style-type: none"> <li>Indoor, 2.8 - 23 kV current limiting and expulsion</li> <li>Rated current: 6 - 65</li> </ul>	Two part design: <ul style="list-style-type: none"> <li>High current section interrupts high 60 Hz fault currents and/or high frequency discharge current from parallel capacitors</li> <li>Low voltage sections consist of a standard NEMA type K fuselink mounted in a fiber tube</li> </ul>
<b>Type CIL</b> 	<ul style="list-style-type: none"> <li>Outdoor application</li> <li>9.7 – 26.2 kV expulsion</li> <li>Rated current: 6 - 100</li> </ul>	<ul style="list-style-type: none"> <li>Individual capacitor unit fusing in outdoor capacitor equipment</li> <li>Operates in all ungrounded wye applications and in all grounded wye applications when capacitor units are connected in two or more series groups. In grounded wye applications with one series group and the available fault current does not exceed values listed in Technical Selection Guide.</li> </ul>
<b>Type CXP</b> 	<ul style="list-style-type: none"> <li>Outdoor application</li> <li>2.8 – 23 kV current limiting and expulsion</li> <li>Rated current: 6 - 92</li> </ul>	Two part design: <ul style="list-style-type: none"> <li>High current section interrupts high 60 Hz fault currents and/or high frequency discharge current from parallel capacitors</li> <li>Low voltage sections consist of a standard NEMA type K fuselink mounted in a fiber tube</li> </ul>
<b>Type COL</b> 	<ul style="list-style-type: none"> <li>Outdoor application</li> <li>2.5 – 25 kV current limiting and expulsion</li> <li>Rated current: 6 - 33</li> </ul>	<ul style="list-style-type: none"> <li>Very high energy capability individual capacitor fuse used in outdoor banks with many parallel capacitor units</li> <li>Do not use on single series group grounded wye or single group delta connected capacitor banks</li> </ul>
<b>Type CLXP</b>		

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