

Reduce linemen time in the field with the easy-to-install Type 3D-73P polymer bypass switch

Eaton's Cooper Power™ series 3D-73P bypass switch is designed to provide an economical way for bypassing and disconnecting pole-mounted distribution-class reclosers and regulators, permitting maintenance without disturbing continuity of service.

Ease of installation

- Three-phase switch: The 3D-73P switch consists of three D-73P3 hookstick operated, bypass switches pre-mounted on a fiberglass crossarm simplifying installation
- Fiberglass crossarm: A durable and corrosion-resistant fiberglass crossarm acts as a robust base while maintaining the lightweight properties of the switch
- Single-point lift: A single-point, center of gravity lifting bracket that allows the switch to be lifted by one lifting eye is available as an option
- Polymer insulators: Reduce switch weight by 40% over porcelain equivalents
 - Maintains mechanical strength characteristics
 - Easier to install than heavier porcelain switches

Reliability

- UltraSIL polymer insulators: Provide more reliable and durable insulating option than porcelain
 - Increased insulating performance in highly contaminated environments
 - High level of safety, flexibility and strength, while not being susceptible to breakages
- High-strength blade: Better able to endure short-circuit current withstand and rough operation
- Current transfer path: Cooler path reduces hot-spots and potential failure points
- Switch latching mechanism: Designed to provide secure and reliable close and open

Improved field operation

- Blade spacers: Provide secure force on contacts, allowing for increased withstand and short-circuit protection by creating a consistent and efficient current interchange without requiring additional force to operate the switch
- Lower contact: Consistent current interchange is independent from hinge
- Silver-plated copper blades: Increased efficiency of current transfer
- Contact surfaces:
 - 600 A ratings—silver-plated blade and tin-plated copper contacts
 - 900 A ratings—silver-plated blade and silver-plated copper contacts



Powering Business Worldwide

3D-73P bypass switch

Quality construction to ensure stable high-current capability and full thermal capacity.

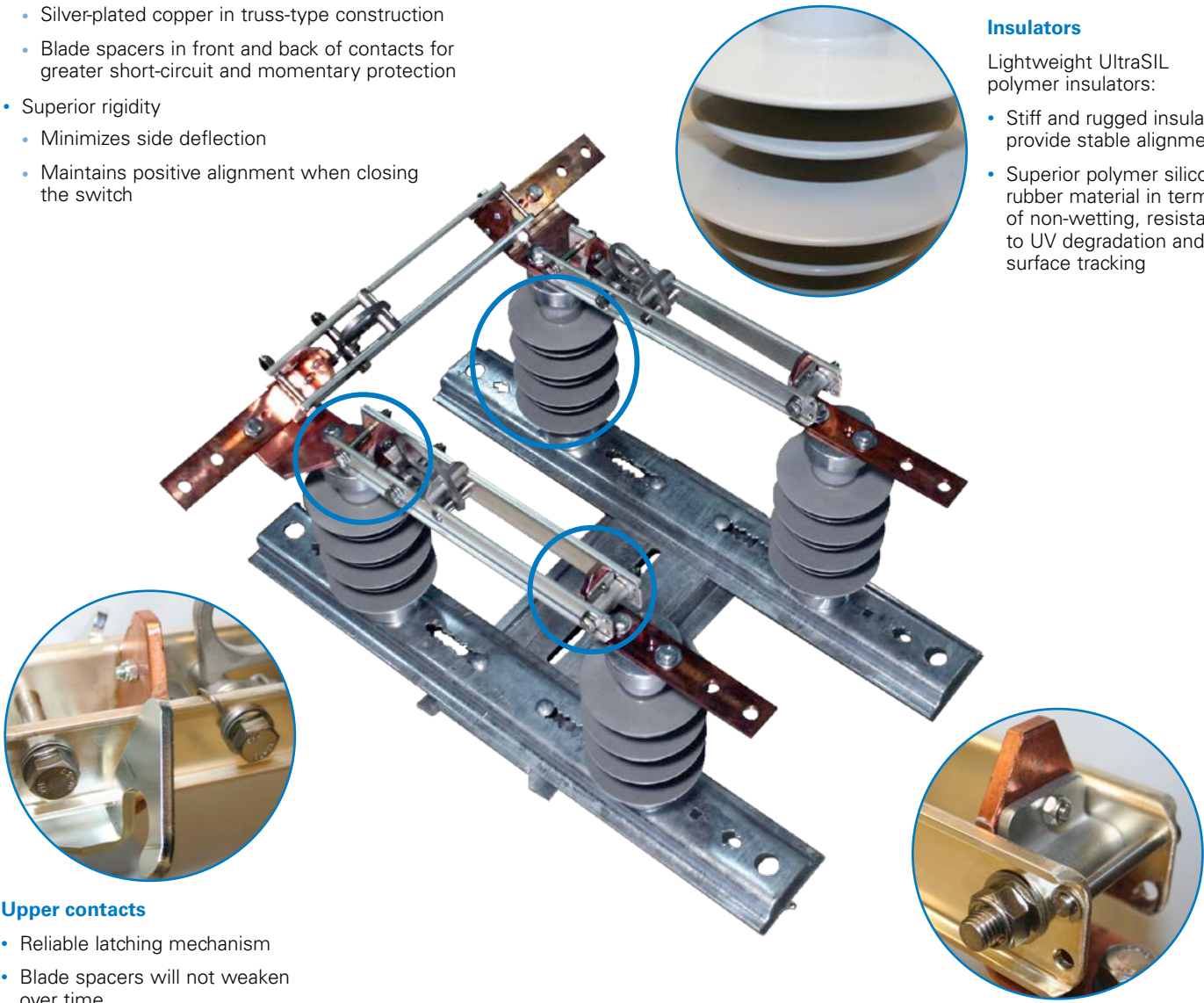
Blade design

- Secure force on contacts
 - Silver-plated copper in truss-type construction
 - Blade spacers in front and back of contacts for greater short-circuit and momentary protection
- Superior rigidity
 - Minimizes side deflection
 - Maintains positive alignment when closing the switch

Insulators

Lightweight UltraSIL polymer insulators:

- Stiff and rugged insulators provide stable alignment
- Superior polymer silicone rubber material in terms of non-wetting, resistant to UV degradation and surface tracking



Upper contacts

- Reliable latching mechanism
- Blade spacers will not weaken over time
- Cooler running design
- Consistent reliable alignment
- Loadbreak hooks standard

Lower contacts

- Independent from hinge
- Current interchange direct from stationary contact to blade
- Consistent current transfer path reduces hot-spots

Eaton
1000 Eaton Boulevard
Cleveland, OH 44122
United States
Eaton.com

Eaton's Power Systems Division
2300 Badger Drive
Waukesha, WI 53188
United States
Eaton.com/cooperpowerseries

© 2018 Eaton
All Rights Reserved
Printed in USA
Publication No. PA008023EN / Z20511
February 2018

For Eaton's Cooper Power series product information, visit
Eaton.com/cooperpowerseries