NOVA™ STS
Single-Tank Triple-Single Recloser

COOPER POWER
SERIES

Improve system reliability and lower grid costs

Realize the economy of Eaton's Cooper Power series Single-tank Triple-Single (STS) recloser–based on the field-tested NOVA™ recloser technology. Reduce costs with simplified installation, maintenance advantages from durable construction and cost savings from standardized training.

Improve customer reliability and lower total life-cycle costs:

- Lower installation and maintenance costs
- Lower operating costs
- Improve MAIFI reliability up to 62%
- Improve SAIFI reliability up to 32%

Easy installation

The single-tank design reduces installation time:

- More compact
  - Lighter unit
  - Takes less space on the pole

Reduced maintenance costs

Based on proven NOVA recloser technology, the NOVA STS recloser provides durable service and reliability:

- Solid cycloaliphatic epoxy
  - No gas, oil or foam to check and maintain
  - No noxious by-products to dispose
- Vacuum interruption with axial-magnetic field for extended contact and mechanical life
- Magnetic-actuator-operated mechanism for reliable operation, year after year

Reduce training costs

The NOVA STS recloser is controlled by the Form 6 Triple-Single control:

- Standardize on one control platform for all system reclosers
- Less training needed for familiar control operation
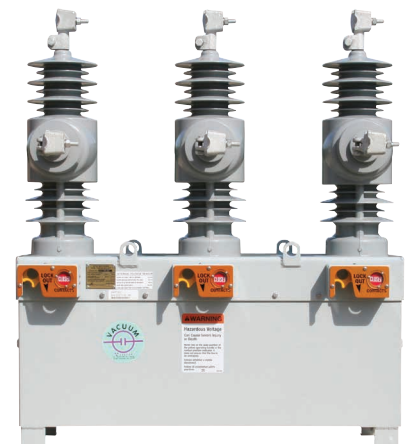
Easy operation

Each phase of the NOVA STS recloser has:

- Dedicated manual trip lever for quick, on-the-spot, single-phase tripping
- Front panel of the control allows the user to open and close any phase independently without any menu navigation

Equipment durability

Improved system margin of protection:

- For 38 kV applications, 170 kV BIL reduces the potential for external flashovers

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Proven reliability

Based on field-tested NOVA recloser technology.

- 15, 27 and 38 kV voltage distribution class

- 12.5 and 16 kA (15 and 27 kV) interrupting current

- 630 or 800 A continuous current

- Three operation modes

- Form 6 Triple-Single control operation

Operation flexibility

The triple-single design provides the flexibility to adapt to your system and your needs.

The NOVA STS recloser has three operating modes:

- Single-phase trip, single-phase lockout: Each individual phase trips and sequences to lockout independent of each other.

  - This is primarily for residential loads and/or where single-phasing of three-phase loads is protected by other means

- Single-phase trip, three-phase lockout: Each phase senses line current and only the phase corresponding to the faulted phase will trip

  - If any one phase sequences to lockout, the other two phases also open, eliminating permanent single-phasing of three-phase loads

- Three-phase trip, three-phase lockout: All three phases simultaneously trip on an over-current, reclose and sequence together

Dynamic phase tripping is configurable to trip and lockout all three phases in the event a phase-to-phase or three-phase fault is detected on the system.

Reduce system costs and improve system reliability

The NOVA STS recloser can be programmed to isolate faults on an individual phase basis, even in multiple-fault scenarios.

For example, load-side fuse protection is maintained even if two faults occur on different phases prior to resetting the control.

Single-phase tripping improves reliability indices, including SAIFI, SAIDI, CAIFI and MAIFI:

- Improve MAIFI reliability by up to 62% for single-phase trip/three-phase lockout performance

- Improve SAIFI reliability by up to 32% for single-phase-to-ground, line-to-line and three-phase faults by changing a three-phase/three-phase mode of operation to single-phase/single-phase mode of operation

For Eaton's Cooper Power series Switchgear Support Group, call 1-800-497-5953 or visit: **Eaton.com/cooperpowerseries**

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