

Network and underground distribution solutions

VisoVac fault interrupter



VisoVac three-phase pad-mount fault interrupter



Model 9-V1 series double-sided configuration shown above.

Eaton's pad-mount VisoVac[®] fault interrupter uses advanced, proven vacuum technology that provides the highest interrupting ratings in the industry. The device includes visible isolation and grounding for all-in-one compact design.

VisoVac models

Pad-mount VisoVac models are available in two styles—V1 and V3 Series. V1 Series models come standard with vacuum fault interruption and Eaton DigitripE 1150V relays and are available in single- or double-sided and control front / cable rear configurations. V3 Series models come standard with vacuum fault interruption, Eaton Digitrip 1150V relays, visible isolation, visible grounding and are available only in double-sided configurations. Models are available up to 40 kAIC.

State-of-the-art design

Eaton's new pad-mount VisoVac is a three-phase medium-voltage fault interrupter. It utilizes Eaton's proven vacuum interruption technology and is available with visible isolation and visible grounding capability. The VFI, isolation and grounding positions are internally interlocked so proper sequence operation is ensured. The VFI mechanism is equipped with a spring charge motor that allows for seamless remote operation without the need for external motor operators. Additionally, a local spring charge handle is provided for dead-start operation.

Operations and savings

The VisoVac pad-mount is an innovative vacuum interrupting device that yields operations savings:

- No regular maintenance
- Gas, oil and regulation free
- Advanced Eaton proven vacuum breaker technology
- Robust, all-in-one design reduces need for extra equipment
- Manual and remote operation capable
- 10,000 mechanical operations

Applications

VisoVac is perfect for applications with robust interrupting requirements, the need for visible isolation and grounding positions, protection and control needs such as remote operation, and auto-transfer schemes that can be customized to address unique customer requirements.

EATON

Powering Business Worldwide



Visible isolation and ground mechanical indicator



Vacuum fault interrupting shown with Eaton Digitrip 1150V



Modular designs

Eaton vacuum interrupters

Eaton is an industry leader in vacuum interrupters, offering an environmentally friendly medium-voltage fault interrupter that can reliably switch high stress currents robustly without the need for unreliable cooling or ventilation systems. Vacuum switching is ideal for long life and low maintenance and is used for repetitive switching, motor inrush current interruption, fault protection and overcurrent/fault protection. The VisoVac switched ways are available with 25 kA or 40 kA withstand ratings, VFI-ways are capable of interrupting up to 25 kA or 40 kA symmetrical fault currents—no oil or gas required.

Visible isolation and ground

The V3 Series VisoVac models come standard with a visible isolation and grounding position. Once the vacuum interrupter is opened, the user can operate an isolation switch that provides a clear visible break between the source and load. The grounding position can be applied to ground each way of the gear individually and is mechanically interlocked internally with the isolation switch. A visual indicator is provided to show each switch position.

Modular designs

The VisoVac is available up to six ways in a single enclosure for double- or single-sided control front / cable rear and submersible configurations. However, the VisoVac can be provided in metal-enclosed lineups for indoor or outdoor applications designed for your unique applications.

SCADA/remote operation

The VisoVac can be supplied with a communication module that will allow for seamless integration to any SCADA system. Standard DNP3 communications protocol is supported. Because units are equipped with spring charged mechanisms, each way can be remotely controlled without the need for obtrusive motor operators. The Digitrip 1150V is capable of supplying current, voltage and other standard metering functions via the communications module.

Digitrip 1150V relay

VisoVac fault interrupting ways come standard with an Eaton Digitrip 1150V relay. The Digitrip is capable of providing adjustable LSIG setpoints and is available with metering and voltage protection functionality. The Digitrip 1150V comes standard with energy harvesting overcurrent protection capability, during the loss of power or voltage sag from a fault the Digitrip can use the energy of the fault to maintain protection and initiate a trip in the absence of control power.

Arcflash Reduction Maintenance System

The Digitrip 1150V comes standard with Eaton's legacy Arcflash Reduction Maintenance SystemE; when maintenance mode is enabled, the Digitrip 1150V utilizes a "faster than instantaneous" analog trip circuit based on user preset values. In this mode, the Digitrip is set to hair trigger and issues subcycle tripping. Total clear is estimated within 4 cycles. When properly used, PPE requirements can be considerably reduced.

Auto transfer control

Eaton's ATC-900 automatic transfer switch controller is ideal for high reliability installations required for any application. The ATC-900 controller offers many standard features such as:

- Monitor primary and backup source voltages and frequencies
- Transfer and re-transfer control
- Open and Close transition switching available
- Display real-time and historical information
- Provide faceplate source status indication
- Provide an LCD for programming and status readouts



Auto transfer control



Digitrip 1150V relay

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