Network and Underground Distribution Solutions
VisoVac™ Fault Interrupter

VisoVac three-phase fault interrupter is compact, robust and engineered for safety

Eaton's VisoVac™ fault interrupter uses advanced, proven vacuum technology which provides the highest interrupting ratings in the industry. The device includes visible isolation and grounding for an all-in-one compact design – to handle the demands of underground and subsurface environments.

Available with 25 kA and 40 kA interrupting ratings perfect for network or underground distribution applications.

EATON
Powering Business Worldwide

State-of-the-art design

Eaton's new VisoVac is a three-phase, submersible, medium voltage fault interrupter. It utilizes Eaton's proven vacuum interruption technology and comes standard with visible isolation and visible grounding capability.

Operational cost savings

The VisoVac device yields operation savings such as:

- No regular maintenance
- Gas, oil and regulation free
- Manually and remotely operated
- All-in-one design reduces need for extra equipment
- 10,000 mechanical operations
- Local isolation for networks

Applications

The VisoVac interrupter is ideal for:

- Underground or subsurface applications
- Primary network isolation or distribution sectionalizing in single or multi-way configurations

Eaton's configured-to-order services can provide a VisoVac solution to meet almost any need.

Innovative HDPE enclosure

The enclosure is constructed of stainless steel for harsh vault and subsurface environments.

The enclosure is also available in revolutionary molded High Density Polyethylene (HDPE) with a safe-touch exterior.

HDPE benefits include:

- Impact resistant
- Light weight
- Perfect for marine environments
- High resistance to most pollutants
- Bi-layer design with safe-touch insulation

The black external layer of the HDPE enclosure is semi-conductive, which permits users to ground the enclosure, providing the safe-touch exterior.

The inside layer is a white non-conductive insulating material revolutionary for use in power switching applications.

VisoVac fault interrupter is perfect fo

Front View

Vacuum Interrupter Position Indicator

The vacuum interrupting mechanism is equipped with a visual indicator located on the front of the VisoVac. The indicator provides OPEN or CLOSE status and if the spring mechanism is charged or discharged.

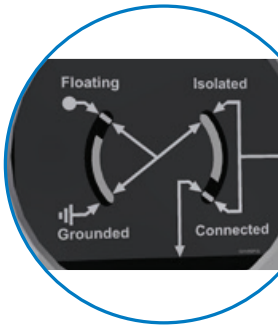
Manual Operating Handle

A side-mounted operating handle is provided and can be located on the left or ride side of the VisoVac. The handle comes with OPEN, CLOSE, and AUTO functionality. Local CLOSE can be disabled if required for application requirements.

Operating handles come standard with locking provisions and are available for hook-stick operation.

Isolation and Grounding Pos Indicator

The VisoVac is ideal for any U or subsurface application. Eat VisoVac can be used for prima network isolation or distributio sectionalizing in single or mul configurations. Eaton's config to-order services can provide VisoVac solution to meet almo need.



Submersible LV Connection

Access for control power, auxiliary contacts, control and operation ca be wired out to a submersible plug or a bulkhead based on application requirements. Pendant control and SCADA control ready.

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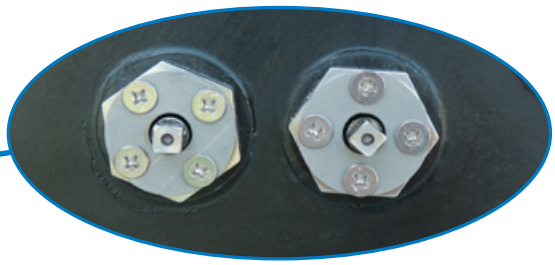
Isolation and Grounding Position Operator

A three-pole, group-operated isolation and grounding switch comes standard. Switches are equipped with internal mechanical and electrical interlocks to ensure proper sequence of operation for personnel safety. Interlocks also prevent remote operation of the VisoVac fault interrupter. A mechanical interface is provided to operate the isolation and grounding switch.



Right-Side View

Front or Rear Mounted Bushings

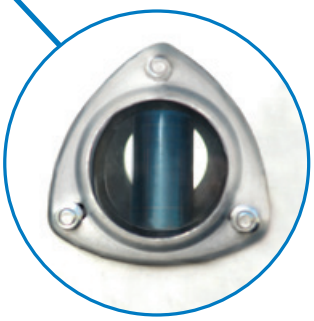
Top bushings are available with front or rear mounting options. The isolation and grounding switches are connected internally on the top bushing bus.

Therefore, the source side or load side cables can be located on top or bottom depending on the application requirements.

Visible Break
Visible Ground

The isolation and grounding positions are visible from the side of the VisoVac and front or rear windows depending on the top bushing arrangement.

The copper rods are layered with a blue coating that provides personnel with clear indication of the switch positions.



Mounting Configurations

VisoVac fault interrupters are available with a variety of different mounting options. Equipment can be mounted directly on the floor, mounted to the wall, or supplied with an adjustable elevating stand. Other options include mounting the VisoVac in multi-way configurations or inside an enclosure for pad-mount applications. Enclosures conform to the security requirements of IEEE Std C57.12.28™-2005 standard. Consult factory for details.

Protection and Control Options

VisoVac fault interrupters are available with a Digitrip 1150V controller or Eaton can provide a customized protection and control package configured to meet each user's unique application requirements.

Protective relays like Eaton's Cooper Power™ series Edison™ Idea™ relay, Schweitzer relay, GE relay or other can be designed and shipped ready for installation. Please consult your local sales representative for details.

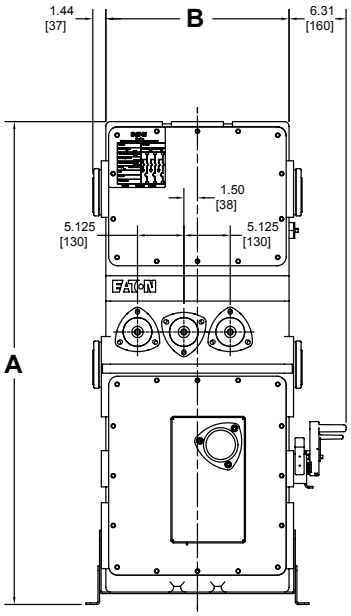


Figure 1. Front View. See Table 1.

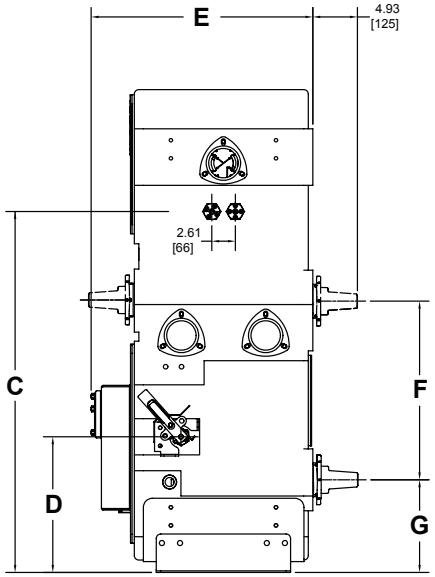


Figure 2. Side View. See Table 1.

Table 1. Dimensional Information (inches)

	Stainless Steel		High Density Polyethylene	
Dim.	**25 kA**	**40 kA**	**25 kA**	**40 kA**
A	53.4	58.6	53.4	58.6
B	20.8	25.1	20.3	24.6
C	40.0	45.2	40.0	45.2
D	15.0	20.2	15.0	20.2
E	24.5	24.1	24.5	24.1
F	19.8	21.5	19.8	21.5
G	10.2	13.7	10.2	13.7

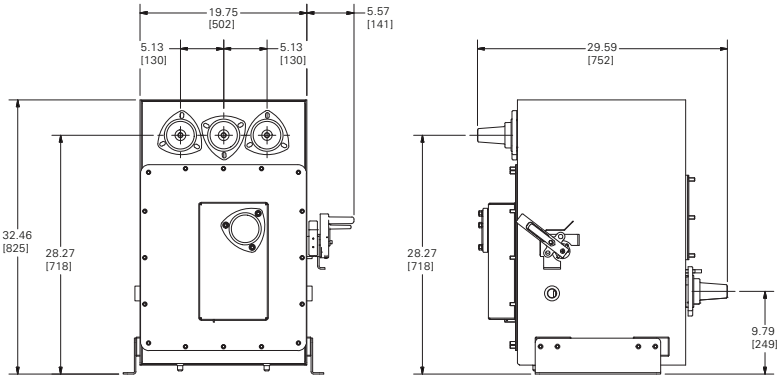


Figure 3. Example configuration of custom one-way VisoVac fault interrupter with Digitrip and internal current sensors.

Table 2. Electrical Characteristics

Max	BIL	Cont. Current	Fault Interrupting	Fault Interrupting Duty	Momentary
15.5 kV*	95 kV	600 A**	25 kA Sym. rms	100 @ 12.5 kA 30 @ 25 kA	65 kA Asy. Pk
15.5 kV*	95 kV	600 A**	40 kA Sym. rms	100 @ 25 kA 40 @ 40 kA	104 kA Asy. Pk

* Available in 17.5 kV

** 900 A optional.

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