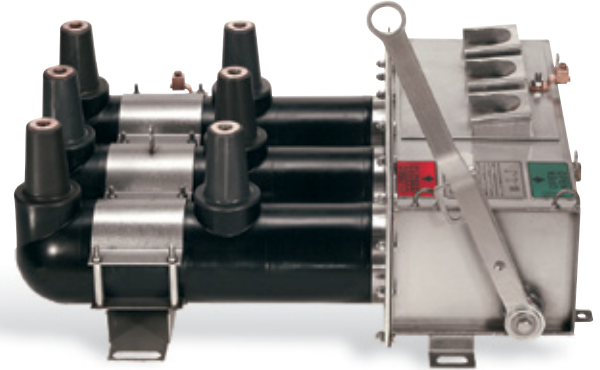


Molded Vacuum Switches and Interrupters

Spring-energy, load-switching devices that make, carry and interrupt load currents through 600A on 5 to 38kV distribution systems.

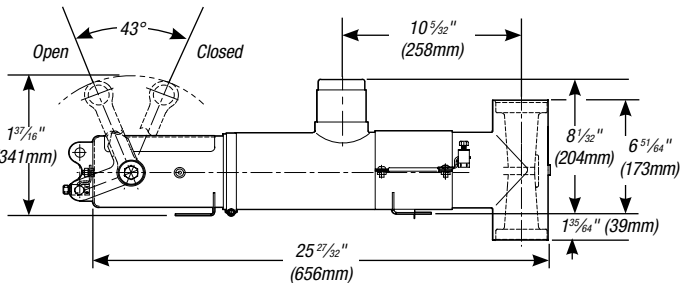
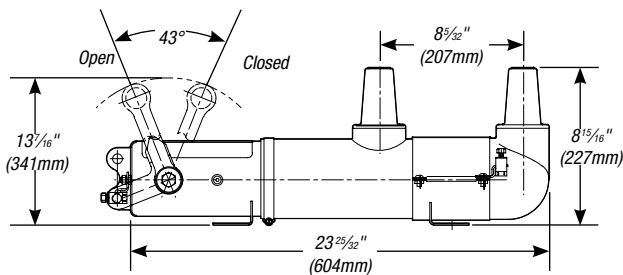
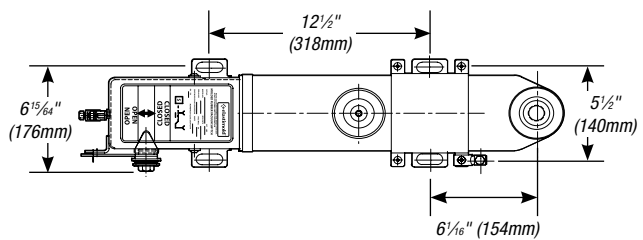
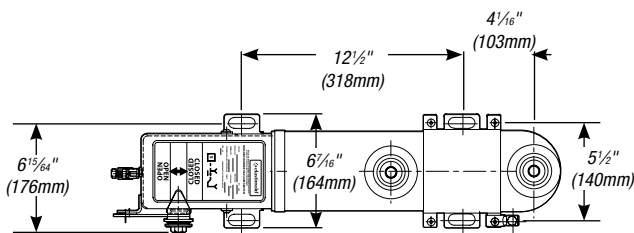
MVS Molded Vacuum Switches

- EPDM molded rubber insulation — MVSs are fully sealed and submersible
- Vacuum switching and vacuum interruption components are maintenance-free and require no gas or oil
- Small footprint enables MVSs to fit in tight padmount, subsurface, vault or riser pole installations



MVS Molded Vacuum Switches include molded-in elbow connection interfaces and spring-energy mechanisms. Available in both single- and three-phase models, units are manually operated with a hotstick. Motor operator, SCADA and auto-transfer control options are available.

Single-Phase Switches Approximate Weight: 30 lbs.



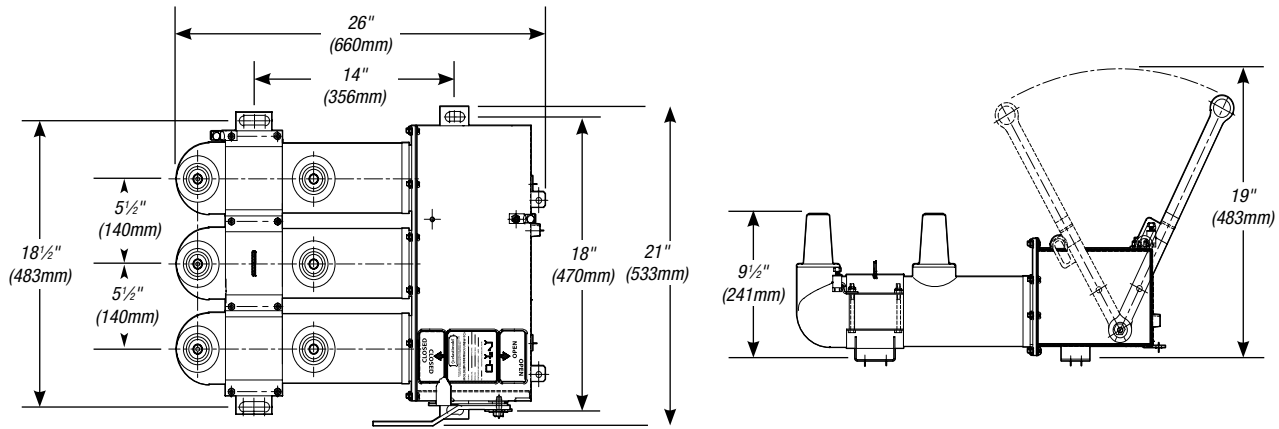
(4) Mounting Holes, 5/8" Dia. x 7/8" (16 x 22mm)

(4) Mounting Holes, 5/8" Dia. x 7/8" (16 x 22mm)

Available with 600A one-piece bushings or 200A wells on either/both terminals.

Molded Vacuum Switches and Interrupters

Three-Phase Switches Approximate Weight: 135 lbs.



Available with 600A one-piece bushings or 200A wells on either/both terminals.

Ratings

Maximum Design Voltage (kV)	15.5	27	38
Frequency (Hz)	50/60	50/60	50/60
BLI Impulse (kV)	95	125	150
One-Minute AC Withstand (kV)	35	60	70
Fifteen-Minute DC Withstand (kV)	53	78	103
Load Interrupting & Loop Switching (Amp)	600	600	600
Transformer Magnetizing Interrupting (Amp)	21	21	21
Capacitor or Cable Charging Interrupting (Amp)	10	15	20
Asymmetrical Momentary and 3-Operation Fault Close (Amp)	20,000	20,000	20,000
Symmetrical One-Second Rating (Amp)	12,500	12,500	12,500
Continuous Current (Amp)	600	600	600
Eight-Hour Overload Current (Amp)	900	900	900

Application Information

Construction: Submersible, corrosion resistant, fully shielded

Ambient Temperature Range: -40° C to 65° C

Certified Tests

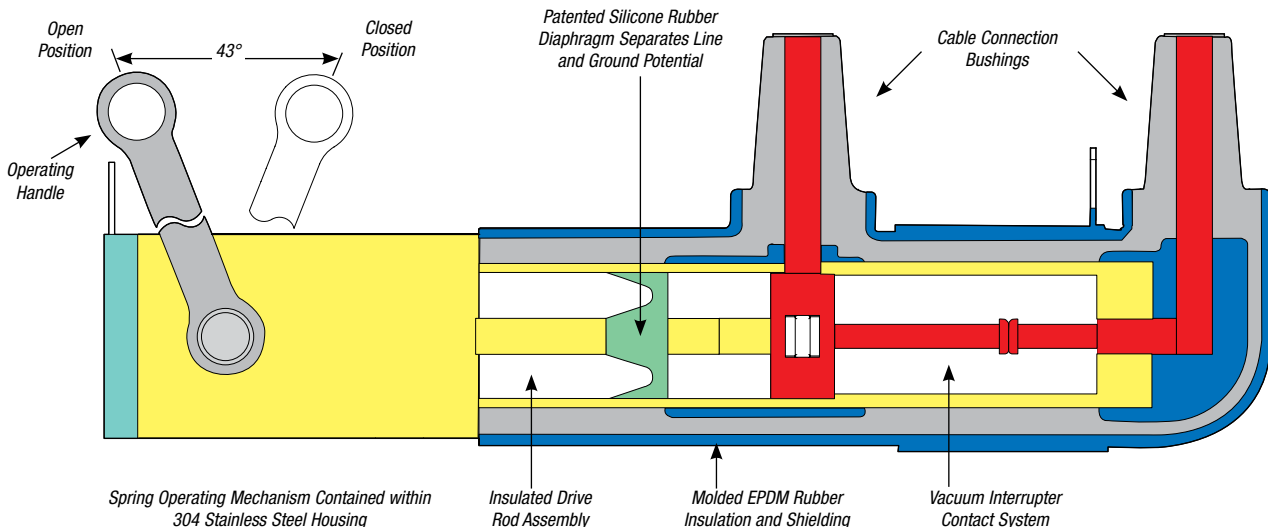
MVS loadbreak switches have been designed and tested per applicable portions of IEEE, ANSI, NEMA and other industry standards, including:

IEEE C37.74 Standard for Subsurface, Vault and Padmounted Load-Interrupting Switches

IEEE 386 Standard for Separable Connectors and Bushing Interfaces

IEC 265 International Standards for Load-Interrupting Switches

ANSI C57.12.28 Standard for Padmount Enclosures



Molded Vacuum Switches and Interrupters

Make, carry and automatically interrupt currents through 25,000A symmetrical on 5 to 38kV distribution systems.

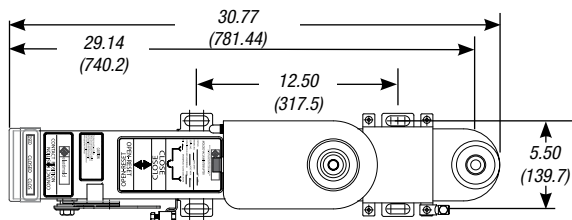
MVI Molded Vacuum Fault Interrupters

- Vacuum interrupters, programmable, electronic, self-powered controls and EPDM rubber insulation provide compact, lightweight and submersible overcurrent protection
- Field programmable with a wide range of time-current characteristic (TCC) curves and trip settings
- TCC curves provide predictable tripping for ease of coordination with upstream and/or downstream protective devices
- Control monitors the circuit condition — when the programmed parameters are exceeded, a signal is sent to the tripping mechanism
- Available motor operators and controls enable radial feeders or loops to be reconfigured, either manually or via SCADA

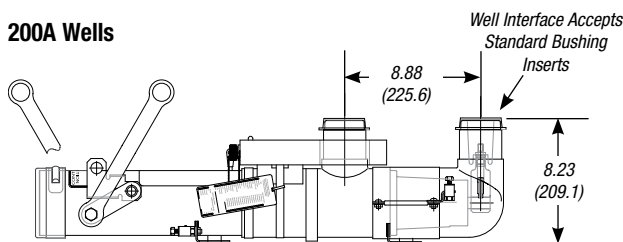
MVI Molded Vacuum Fault Interrupters include molded-in elbow connection interfaces and trip-free mechanisms. They are available in single- and three-phase models. Units are self-powered and include current-sensing and electronic control.



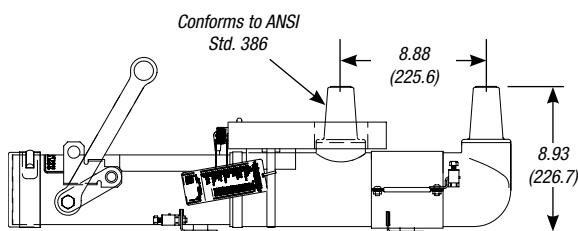
Front View Single-Phase



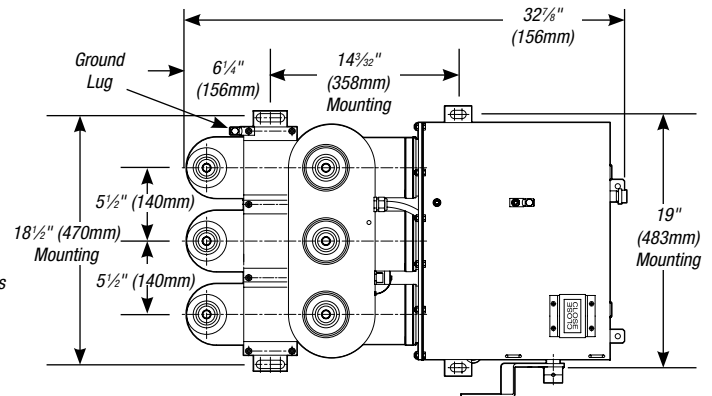
200A Wells



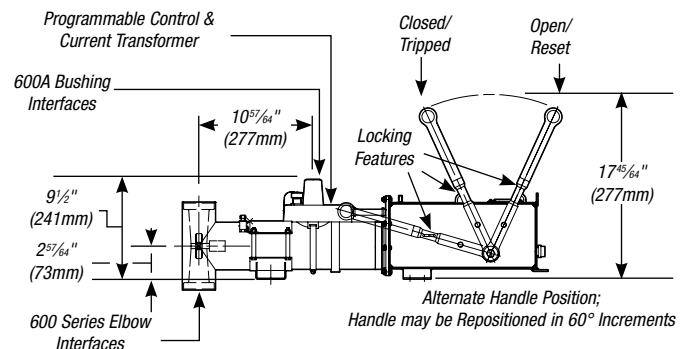
600A Bushings



Front View Three-Phase



600A T Elbow Interface



Molded Vacuum Switches and Interrupters

Ratings

Voltage Class (kV)	15.5	15.5	15.5	27	35	35
Maximum Design Voltage (kV)	17	17	15.5	29	38	38
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60
BIL Impulse Withstand (kV)	95	95	95	125	150	150
One-Minute AC Withstand (kV)	35	35	35	40	50	50
Five-Minute DC Withstand (kV)	53	53	53	78	103	103
Continuous Current (Amp)	630	630	630	630	630	630
Load Interrupting & Loop Switching (Amp)	630	630	630	630	630	630
Capacitor or Cable Charging Interrupting (Amp)	10	10	10	25	40	40
Symmetrical/Asymmetrical Interrupting Capability (kA)	12.5/20	16/25.6	20/32	12.5/20	12.5/20	25/40
Current Sensor Ratio	1,000:1	1,000:1	1,000:1	1,000:1	1,000:1	1,000:1

Application Information

Meets ANSI C37.60 requirements

Ambient Temperature Range: -40° C to 65° C

Certified Tests

MVI Molded Vacuum Fault Interrupters have been designed and tested per applicable portions of IEEE, ANSI, NEMA and other industry standards, including:

ANSI C37.60 Standard for Fault Interrupters

IEEE 386 Standard for Separable Connectors and Bushing Interfaces

ANSI C57.12.28 Standard for Padmounted Enclosures

