

Electrical Distribution Division

38kV Vacuum Breaker

38kV Vacuum Breaker: Nominal Ratings

Rated Maximum Voltage	38kV
Rated Short Circuit Current	31.5kA
Full Load Current	1200A or 2000A
Interrupting Time	3 cycles
Temperature Range	-50°C to 50°C



Performance Rating	ANSI C37.xx	MEPPI EDD
Rated Max Voltage:	38kV	38kV
Interrupting Time:	3 or 5 cycles	3 cycles
Asymmetrical Interrupting (X/R):	17	17 @ 31.5kA, 30 @ 25kA
Capacitor Bank:	250A	630A
Reactor Switching:	No Testing Standard	Tested per IEC 62271-110
Lowest Operating Temperature:	-30°C	-50°C
Highest Operating Temperature:	40°C	50°C
Magnetizing Current:	No Testing Standard	Tested per JEC 2300
Bushing Creep:	24" Light Pollution	41" Very Heavy Pollution
Bushing Strike (external only):	200kV	250kV (animal clearance)
Seismic Qualification:	Not Specified	"High" per IEEE-693
Wind Loading:	Not Specified	150mph per ASCE 7-05

38kV Vacuum Breaker: General Control Cabinet

- NEMA 3X rating,
“Dust-Tight”
- Swing Panel Option can
be utilized for
customization.



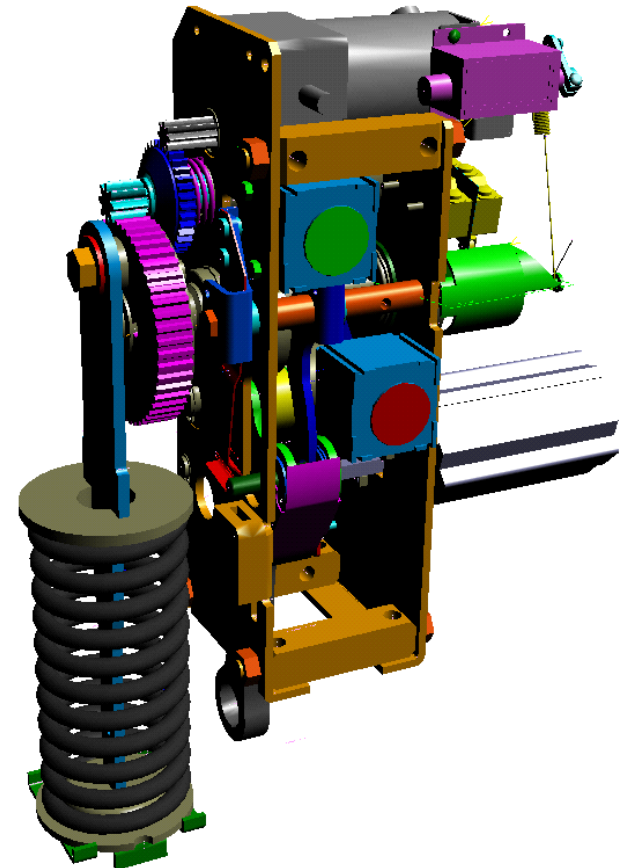
38kV Vacuum Breaker: Pole Configuration

- Three Individual poles mechanically linked
- Vacuum Bottles located in horizontal position



38kV Vacuum Breaker: BH-2H Operating Mechanism

- Helical Spring Open/Close
- Universal Motor
- Maintenance-FREE Mechanism
- NO Grease Points



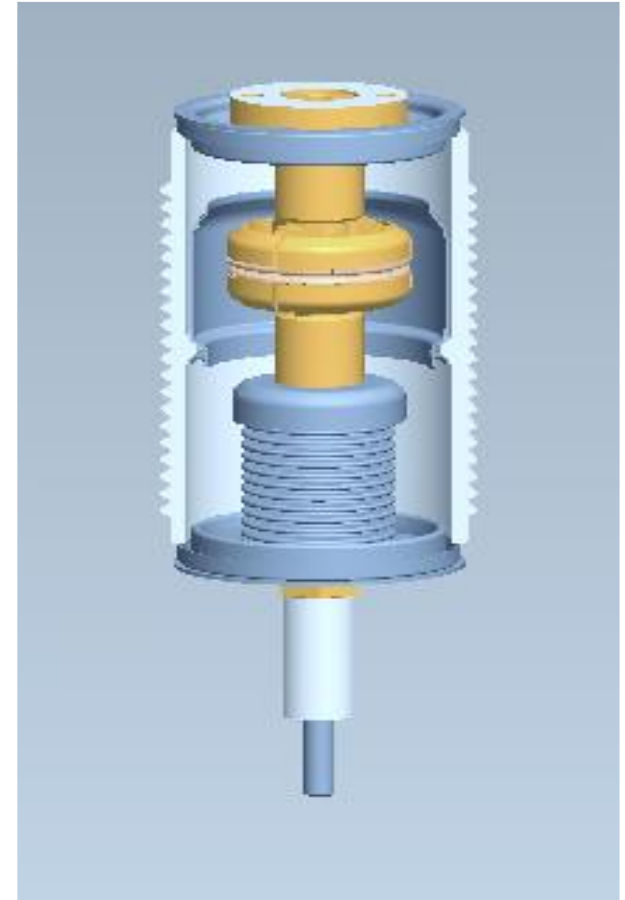
38kV Vacuum Breaker: BH-2H Operating Mechanism

- Direct Drive Motor
- Self-Lubricating Gears



38kV Vacuum Breaker: Vacuum Interrupter

- **Axial Magnetic Field (AMF)
Contact**
- **Contact Life expectancy is 20
full fault @ 31.5kA, or 20,000
full load current operations**
- **Visible wear line on bottle, no
measurements necessary**



38kV Vacuum Breaker: Advantages

- Breaker options available to meet customer design intent
- Breaker design exceeds many ANSI/IEEE standards
- 10 Year or 10,000 Operations Maintenance Schedule
- Low Total Cost of Ownership



Electrical Distribution Division: Service and Training

- **After hours customer response contact for 24-hour access**
- **Ability to expedite spare parts overnight eliminates the need for stocking**
- **Training courses available, on-site or at our facility**

Thank you
