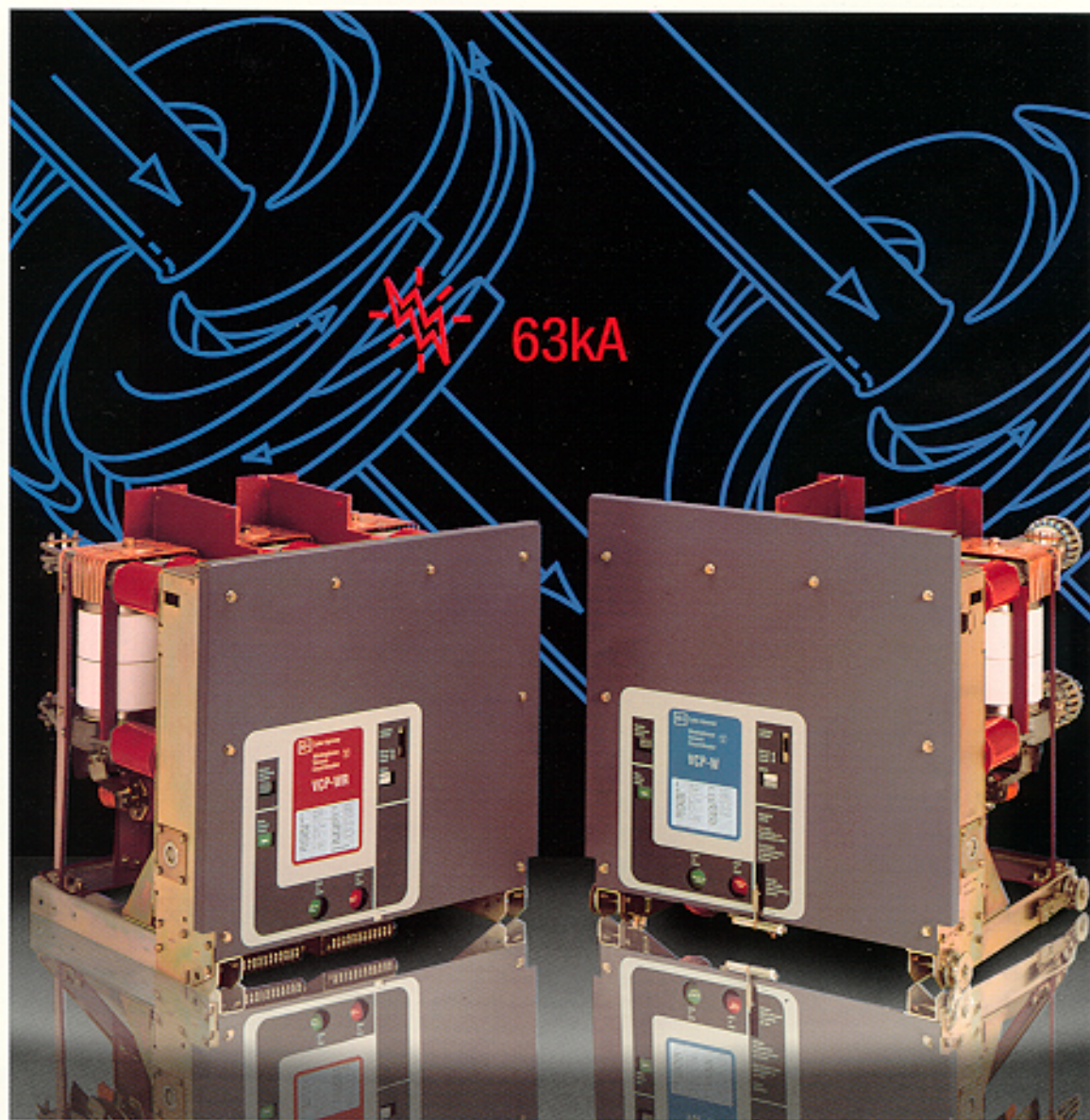


Westinghouse Medium Voltage Vacuum Circuit Breakers

Type VCP-W and Type VCP-WR
ANSI 5 kV at 500 MVA, 63 kA
15 kV at 1500 MVA, 63 kA
1200, 2000, and 3000 Amperes

Introducing a 63 kA short circuit protection solution from the industry leader in vacuum circuit breaker technology. Featuring: patented nonsliding, maintenance-free current transfer system and 95 kV BIL insulation.



Cutler-Hammer

EATON

The new 63kA Vacuum Circuit Breaker provides versatility in either a fixed mounted (VCP-WR) or drawout (VCP-W) configuration.

Ten Great Reasons that make Cutler-Hammer's new 63kA Vacuum Circuit Breakers the logical choice:

■ User Friendly

Controls and indicators are functionally grouped on the operator's panel.



■ Front Accessible Mechanism

Simple and easy access to the mechanism and control components.

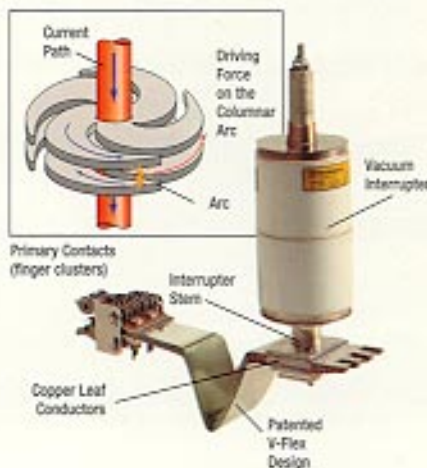


■ Over 10 Years of Proven Mechanism Reliability

The trip-free, two-step stored energy mechanism is used in all VCP-W Vacuum Circuit Breakers from 5 through 38kV.

■ Patented V-Flex System

Fewer moving parts allows for vacuum stem movement without friction and without the wear normally associated with rolling/sliding designs.



■ The Industry's Best System for an Electrical Connection to a Vacuum Interrupter



The nonsliding current transfer system consists of a series of tin plated high conductivity copper leaf conductors that are swaged onto the vacuum interrupter stems.

- Provides improved current flow through the increased surface area (skin effect) of the multiple conductors, while the multipoint contact offers very low electrical and thermal resistance.
- Unlike sliding or rolling designs, there are no moving parts to wear out—therefore, no maintenance.
- Results. Longer circuit breaker life.

■ Simple to Inspect



- Vacuum interrupters with contact erosion indicators.
- Contact wipe spring indicator.
- Only requires occasional visual inspection.
- No measurements required.

■ Premium Control Wire & Terminals

#14 gauge SIS cross linked polyethylene wire with ring-tongue terminals.

■ Reliable Vacuum Technology

Over 25 years of proven reliability, design and manufacturing experience in vacuum technology.

■ Quality is Designed-In

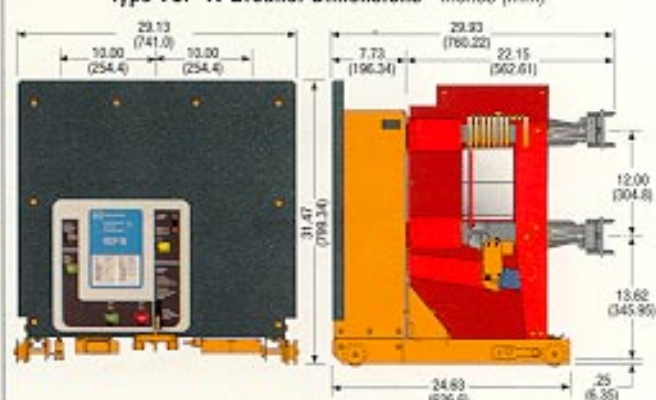
Cutler-Hammer's 63kA Vacuum Interrupter has been specifically designed for use in VCP-W and VCP-WR breakers for superior performance. Each breaker is assembled in a ISO 9002 certified facility.

■ Premiere Performance Type VCP-W and VCP-WR

Single circuit breaker tested to 1.8 Mega Amperes in Cumulative Interruption ... and it's still performing.

Maximum Voltage	16 kV
Short Circuit Current	63 kA
1500 MVA for 15 kV Class	
500 MVA for 5 kV Class	
Voltage Range Factor (K)	1.0
Dielectric Withstand Voltages	
Power Frequency (1 minute)	35 kV
Impulse	95 kV peak
Continuous Current at 60 Hz	1200, 2000, 3000 and 4000 (FC) Amperes
Operating Duty Cycle	CO-15 sec-CO
Interrupting time	3 or 5 cycles
Asymmetry Factor (S)	1.27
Asymmetrical Interrupting	80 kA (62% dc)
Close and Latch capability	170 kA peak
Short time current capability (3 sec)	63 kA
Transient Recovery Voltage (E_2)	28 kV
(t_2)	27 μ seconds
Reclosing time	< 10 cycles
Reclosing Duty Factor (R)	100 percent
No-Derating for rapid reclosing	
Out-of-phase switching at 22 kV	
breaking	31.5 kA
making	91 kA
Spare Auxiliary Contacts	3a, 4b

Type VCP-W Breaker Dimensions - inches (mm)



Approx. Weight 550 lbs.

Cutler-Hammer

Westinghouse &
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