

VCP-WXC

Vacuum circuit breakers



Xtra capabilities and enhanced features



The VCP-WXC, Eaton's medium voltage ANSI breaker platform's newest addition, features Xtra capability to meet today's circuit protection needs.

Features

- 15 kV, 63 kA, 1200–3000A drawout vacuum circuit breaker
- 62% DC Component that exceeds IEEE® requirements and is used in applications with high impedance/resistance ratios (X/R)
- 175 kA peak close and latch and momentary rating exceeds IEEE preferred rating of 164 kA
- Demonstrated Out-of-Phase switching rating of 31.5 kA rms for industry applications such as power plants
- Additional vacuum interrupter very fast TRV testing up to 10 kV per microsecond
- Enhanced vacuum interrupter low frequency testing as low as 4 Hz for use with adjustable frequency drives
- Available as drawout with the option of six wheel roll-on-the-floor configuration

- Control circuit and wiring enhancements
- Dedicated dry contact for spring-charged indication; this extra contact can be wired out to the panel for visual indication that the breaker is charged
- Enhanced wiring with a newly detailed wiring schematic
- Superior environmental capability, anti-radiation wire for special applications such as power plant use
- Control wiring terminated with ring terminals for reliable connections

Application

The VCP-WXC is ideal for large power plant and industrial applications where the highest interrupting and momentary ratings are required for distribution circuits. The VCP-WXC complements the VCP-WG generator circuit breakers for applications when very high inductance provides challenges to system switching and interruption.

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VCP-WXC ratings (symmetrical current basis)

Voltage		Insulation Level		Continuous Current at 60 Hz	Style Number ①
		Withstand Test			
Maximum Voltage	Voltage Range Factor	Power Frequency (1 Min.)	Lightning Impulse 1.2 x 50 μ s		
15 kV rms	1	42 kV rms	95 kV peak	1200A rms	4A35390G10
15 kV rms	1	42 kV rms	95 kV peak	2000A rms	4A35391G10
15 kV rms	1	42 kV rms	95 kV peak	3000A rms	4A35392G10

① This breaker is available with 125 Vdc secondary control voltage. This includes as standard a motor, closing coil, shunt trip #1 and shunt trip #2.

Short-Circuit Current					Interrupting Time ②	Maximum Permissible Tripping Delay	Transient Recovery Voltage (RRRV) ③
Symmetrical Interrupting at V (Isc)	% DC Component (Idc)	Asymmetrical Interrupting (It)	Closing and Latching Capability	Short-Time Current for 3 Sec ①			
63 kA rms	62%	83 kA rms	175 kA peak	63 kA rms	50 ms	2 sec	1.1 kV/ μ s

① Except as noted.

② Three cycles.

③ Contact Eaton for higher RRRV or for more information.

Capacitor Switching Ratings				Mechanical Endurance No-Load Operations
General Purpose Isolated Shunt Capacitor Bank Current	Definite Purpose Back-to-Back Capacitor Switching			
	Capacitor Bank Current	Inrush Current	Inrush Frequency	
250A rms	200 and 1600A rms ①	7.7 kA peak	465 kHz	10,000

① C37.04a-2003 class C2 at 15 kV.

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