

Drawout and fixed medium voltage vacuum circuit breakers



Eaton's VCP-T circuit breakers deliver all the features normally associated with true drawout metal-clad circuit breakers, and are used in conjunction with a drawout cassette. VCP-TR circuit breakers are fixed-mounted devices.

VCP-T drawout and VCP-TR fixed circuit breakers

VCP-T

- Three-position drawout (disconnect, test, connect)
- Metal-clad insulation/isolation
- Spring-loaded multi-finger primary disconnects
- Silver-plated fixed primary cassette stabs
- Automatic steel primary safety shutters

VCP-TR

- Bolted bus or cable connections

VCP-T and VCP-TR

- Two-step stored energy mechanism
- O-0.3s-CO-15s-CO
- Tested and proven to ANSI C37.09
- UL® listed and CSA® witnessed

Small without compromise

Introducing the VCP-T drawout type and VCP-TR fixed type medium voltage circuit breakers with a short-circuit breaking current rating up to 40 kA. VCP-T drawout circuit breakers have a continuous current rating up to 2000 A. VCP-TR fixed circuit breakers have a continuous current rating up to 2500 A. Capacitor switching capabilities can also be requested as an optional design. All were designed for use where space is at a premium. They are ideal for applications such as power houses, shipboard use, engine generators, restricted access locations and low-profile areas.

- 60% smaller than comparable breakers
- 50% lighter than comparable breakers
- One compact footprint through 15 kV
- Reduction of installed space
- Reduced material and shipping costs
- Lightweight components
- Installation/startup time savings
- 3-cycle (50 ms) interrupting time
- Mechanical endurance up to 20,000 operations

Value-added flexibility

VCP-T and VCP-TR designs offer unmatched flexibility, even after installation. They simplify design, installation and use.

- Through-the-door or closed-door operation
- Common family of accessories
- UL listed field-installable accessories
- Labeled and dedicated secondaries
- Clear and concise operating panel
- Front access to mechanism/accessories
- Optional integral protective relay
- One compact 40 kA family drawout cassette size

Optional Digitrip™ protective relays

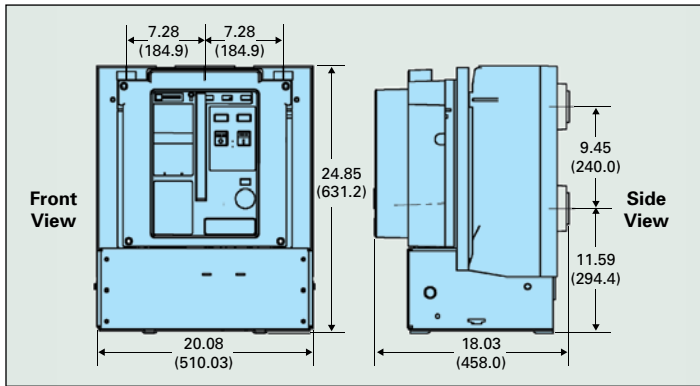
- True rms sensing
- Microprocessor-based
- Self-powered
- Local testing
- Model 520V:
 - Basic protection (LSIG)
- Model 520MCV:
 - Arcflash Reduction Maintenance System™ (LSIG)
- Model 1150V:
 - Advanced protection (LSIG)
- Metering and communications

EATON

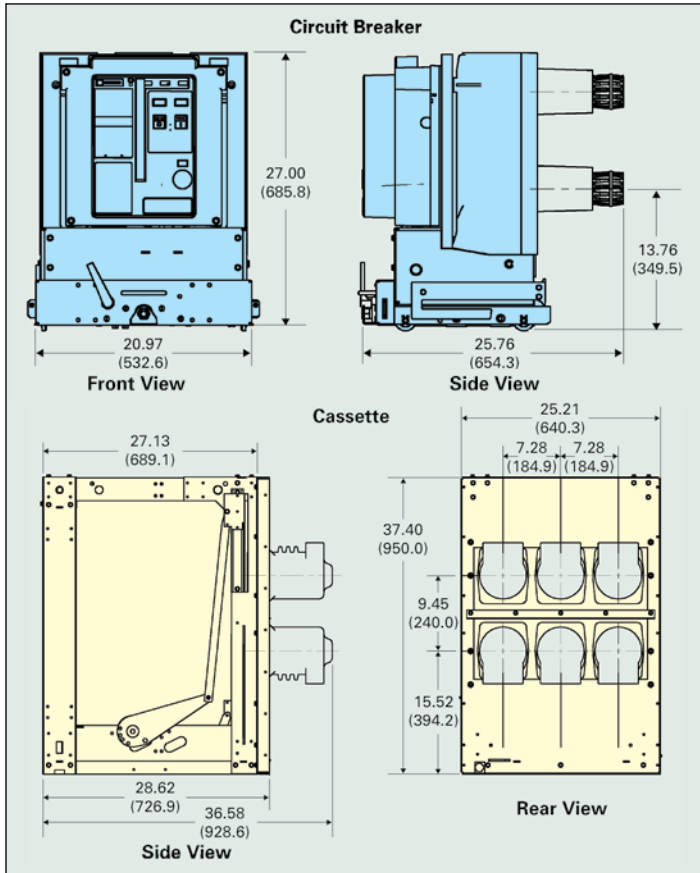
Powering Business Worldwide



VCP-TR fixed circuit breaker dimensions in inches (mm)



VCP-T drawout circuit breaker/cassette dimensions in inches (mm)



Tested for capacitor switching capabilities—definite purpose to ANSI C37

Cable charging	Grounded banks	
	Single bank	Back-to-back
25 A	250 and 1000 A	250 A with inrush current 4 kApk at 5.9 kHz and 1000 A with inrush current 15 kApk at 25 kHz

Note: Ratings of 250 and 1000 A cover capacitor bank applications from 75 to 1000 A.

Selected VCP-T/VCP-TR feature (■ available)

Feature	Standard	Optional
Metal-clad insulation/isolation ①	■	
Spring-loaded primary finger disconnect	■	
Silver-plated primary cassette stabs	■	
Manual charging ②	■	
Integral charging handle	■	
Electrical motor charging ③		■
Auxiliary switch (5a/5b) ④	■	
Mechanical operations counter	■	
24, 48, 125 and 250 Vdc, 120 and 240 Vac control	■	
Shunt trip	■	
Shunt trip (2nd) ⑤		■
Spring release ⑤		■
Undervoltage release ⑤		■
ON and OFF pushbuttons	■	
Capacitor switching breakers		■

- ① 11-gauge grounded steel barrier.
- ② Includes shunt trip.
- ③ Includes shunt trip and spring release, field-installable.
- ④ Heavy-duty, double break, wipe type for customer use.
- ⑤ Field-installable, viewed through viewing window, maximum three devices (any combination).

VCP-T/VCP-TR breaker ratings (ANSI C37.04 and C37.09)

Circuit breaker type ①	Rated max. voltage kV rms	Insulation level			Short-circuit breaking current ② kA rms	Short-circuit making current kA peak	Mechanical endurance C-0 Operations	Approx. weight fix/drawout Pounds
		Power frequency kV rms	Impulse withstand kV peak	Continuous current Amperes				
50 VCP-T25 and 50 VCP-TR25	4.76	19	60	2000 2500 ③	25	65	10,000 ▼	330/420
75 VCP-T25 and 75 VCP-TR25	8.25	20	60	2000 2500 ③	25	65	10,000 ▼	330/420
150 VCP-T25 and 150 VCP-TR25	15	36	95	2000 2500 ③	25	65	10,000 ▼	330/420
50 VCP-T32 and 50 VCP-TR32	4.76	19	60	600 1200 2000 2500 ③	31.5	82	10,000 ▼	330/420 330/420 338/430 342/NA
75 VCP-T32 and 75 VCP-TR32	8.24	20	60 ④	600 1200 2000 2500 ③	31.5	82	10,000 ▼	330/420 330/420 338/430 342/NA
150 VCP-T32 and 150 VCP-TR32	15	36	95	600 1200 2000 2500 ③	31.5	82	10,000 ▼	334/425 334/425 342/435 346/NA
50 VCP-T40 and 50 VCP-TR40	4.76	19	60	600 1200 2000 2500 ③	40	104	10,000 ▼	334/425 334/425 342/435 346/NA
75 VCP-T40 and 75 VCP-TR40	8.25	20	60 ④	600 1200 2000 2500 ③	40	104	10,000 ▼	334/425 334/425 342/435 346/NA
150 VCP-T40 and 150 VCP-TR40	15	36	95	600 1200 2000 2500 ③	40	104	10,000 ▼	338/430 338/430 346/440 350/NA

- ① Independent shunt trips are available for use with traditional protective relaying schemes.
- ② Also 2-second short-time current rating.
- ③ 2500 A available as fixed VCP-TR circuit breaker only.
- ④ Use 15 kV breaker and cassette when 95 kV impulse withstand required.



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