

Small without compromise



VCP-TRL fixed circuit breaker
(With or without optional protective relay; non-automatic shown)

Introducing Eaton's VCP-TL drawout type and VCP-TRL fixed type medium voltage circuit breakers with short-circuit-breaking current ratings up to 25 kA and continuous current ratings up to 1600 A. Capacitor switching capabilities are also included in certain VCP-TL/VCP-TRL breaker configurations. All were designed for use where space is at a premium. They are ideal for applications such as powerhouses, ship-board use, engine generators, restricted-access locations and low-profile areas.

Small without compromise

In addition, the linear actuator mechanism provides for a high degree of reliability with less maintenance.

- Operating mechanism up to 100,000 operations, vacuum interrupter 30,000 operations
- 60% smaller than comparable breakers
- 50% lighter than comparable breakers
- One compact footprint through 15 kV
- Reduced material and shipping costs
- Reduced installation space and weight
- Installation/startup time savings
- Minimum 60 ms, 3.6 cycle

VCP-TL drawout and VCP-TRL fixed circuit breakers with linear actuator mechanism

VCP-TL types are true drawout metal-clad circuit breakers used in conjunction with drawout cassettes. VCP-TRL types are fixed-mounted devices. All have very advantageous linear actuator mechanisms.

VCP-TL

Three-position drawout (Disconnect, Test, Connect)

- Spring-loaded multi-finger primary disconnects
- Silver-plated fixed primary cassette stabs
- Automatic steel primary safety shutters

VCP-TRL

- Bolted bus or cable connections

VCP-TL and VCP-TRL

- Linear actuator mechanism
- Fewer moving parts
- Less maintenance
- Longer mechanism life and high reliability
- Metal-clad insulation/isolation
- O-0.3s-CO-3m-CO
- Tested and proven to ANSI C37.09
- UL® listed and CSA® witnessed

Value-added flexibility

VCP-TL and VCP-TRL designs offer unmatched flexibility, even after installation. All configurations simplify design, installation and use.

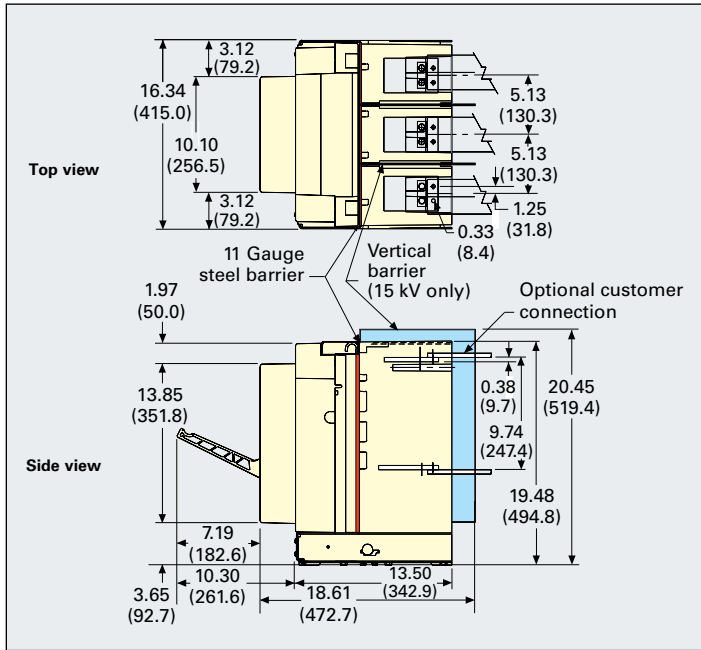
- Through-the-door or closed-door operation
- Labeled and dedicated secondaries
- Clear and concise operating panel
- Front access to mechanism/accessories
- Visible contact erosion indicator
- Optional integral protective relay
- One compact 25 kA family drawout cassette size

Optional Digitrip™ protective relays

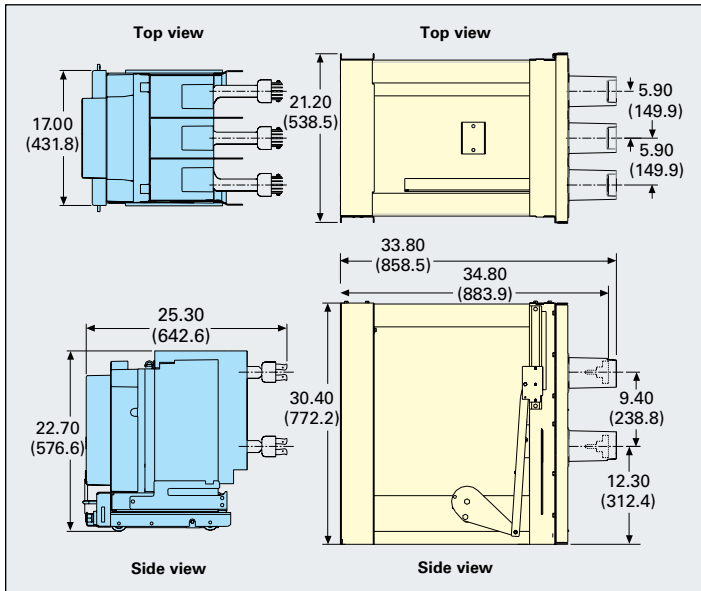
- True rms sensing
- Microprocessor-based
- Self-powered
- Local testing
- Model 520V:
 - Basic protection (LSIG)
- Model 520MCV:
 - Arcflash Reduction Maintenance System™ (LSIG)
- Model 1150V:
 - Advanced protection (LSIG)
 - Metering and communications



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



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



Certified for capacitor switching capabilities for "definite purpose" to ANSI C37

Cable charging	Ground banks	
	Single bank	Back-to-back
25 A	250 A and 630 A	250 A with inrush current 15 kApk at 5 kHz and 630 A with inrush current 15 kApk at 1.5 kHz

Note: Ratings of 250 A and 630 A cover capacitor bank applications from 75 A to 630 A.

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Selected VCP-TL/VCP-TRL features (■ = available)

Feature	Standard	Optional
Metal-clad insulation/isolation ①	■	
Spring-loaded primary finger disconnect	■	
Silver-plated primary cassette stabs	■	
Integral manual open handle	■	
Auxiliary switch (5a/5b) ②	■	
Mechanical operations counter	■	
36–60 Vac and 36–72 Vdc control or 100–240 Vac and 100–353 Vdc control	■	
Shunt trip ③	■	
Spring release ④	■	
ON and OFF pushbuttons	■	
Mechanical closed/open indicator	■	
Externally mounted undervoltage release		■
Capacitor switching capabilities		■

① 11-gauge grounded steel barrier.

② Heavy-duty, double break, wipe type for customer use.

③ Dry contacts required for remote operation.

VCP-TL/VCP-TRL 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-O ③	Approx. weight fix/drawout Pounds
		Power frequency kV rms	Impulse withstand kV peak	Continuous current Amperes				
50 VCP-TL16 and 50 VCP-TRL16	4.76	19	60	600 1200 1600 ④	16	42	10,000	153/232 155/234 157/NA
50 VCP-TL20 and 50 VCP-TRL20	4.76	19	60	600 1200 1600 ④	20	52	10,000	159/237 161/239 163/NA
50 VCP-TL25 and 50 VCP-TRL25	4.76	19	60	600 1200 1600 ④	25	65	10,000	166/243 168/245 170/NA
75 VCP-TL16 and 75 VCP-TRL16	8.25	20	60	600 1200 1600 ④	16	42	10,000	155/232 157/234 159/NA
75 VCP-TL20 and 75 VCP-TRL20	8.25	20	60	600 1200 1600 ④	20	52	10,000	161/239 161/241 163/NA
75 VCP-TL25 and 75 VCP-TRL25	8.25	20	60	600 1200 1600 ④	25	65	10,000	166/245 168/247 170/NA
150 VCP-TL16 and 150 VCP-TRL16	15	36	95	600 1200 1600 ④	16	42	10,000	155/234 157/237 159/NA
150 VCP-TL20 and 150 VCP-TRL20	15	36	95	600 1200 1600 ④	20	52	10,000	161/239 163/241 166/NA
150 VCP-TL25 and 150 VCP-TRL25	15	36	95	600 1200 1600 ④	25	65	10,000	168/245 170/247 172/NA

① Independent shunt trips are available for use with traditional protective relaying schemes.

② Also two-second short-time current rating.

③ Operating mechanism up to 100,000 operations, vacuum interrupter 30,000.

④ 1600 A available as fixed VCP-TRL circuit breaker only.

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