



EATON

Cutler-Hammer

T-VACR Fixed Medium Voltage Vacuum Circuit Breakers

Product Aid

Up to 17.5 kV
Up to 25 kA

Small Without Compromise

Introducing the Eaton's Cutler-Hammer T-VACR fixed medium voltage circuit breaker. Designed for use where space is at a premium, the T-VACR is ideal for applications such as mine power centers, portable power substations, fixed breaker switchgear and portable generators. Consider the possibilities:

- 60% smaller than comparable breakers
- 50% lighter than comparable breakers
- One compact footprint through 17.5 kV
- Material and time savings

World-Leading Credentials

T-VACR incorporates many proven design features coupled with over 70 years of medium voltage circuit breaker design and manufacturing experience.

- Environmentally compatible vacuum switching
- Metallic safety barrier between mechanism and primary conductors
- Two step stored energy mechanism
- 0.03 s CO 3 min. CO
- Copper primary conductors
- Silver-plated primary connections
- Tested in accordance with IEC

Value-Added Flexibility

The T-VACR design offers unmatched flexibility, even after installation. T-VACR simplifies design, installation and use with:

- Common family of accessories
- Field-installable accessories
- Labeled and dedicated secondaries
- Clear and concise operating panel
- Through or closed-door access
- Front access to mechanism/accessories



T-VACR Features

■ Available ■ Future Availability

Feature	Standard	Optional	Future
Metallic Safety Barrier ^①	■		
Copper Primary Conductors	■		
Silver-Plated Primary Connections	■		
Manual Charging ^②	■		
Electrical Motor Charging ^③		■	
Integral Charging Handle	■		
Auxiliary Switch (5a and 5b) ^④	■		
Mechanical Operations Counter	■		
24, 48, 125, 250 Vdc, 120, 240 Vac Control	■		
Shunt Trip ^⑤	■		
Shunt Trip (2nd) ^⑤		■	
Spring Release ^⑤		■	
Undervoltage Release ^⑤		■	
ON and OFF Pushbuttons	■		
ON and OFF Pushbutton Cover ^⑥		■	
Prevent Manual Close Cover ^⑦		■	
Key Interlock (Ronis, Castell, Kirk [®]) ^⑧		■	
Integral Lifting Means ^⑨	■		
Closed Door Operation	■		
Identified/Dedicated Secondary Contacts	■		
Secondary Disconnect Block	■		
Secondary Screw Type Terminal Block ^⑩		■	
Two-Step Stored Energy Mechanism	■		
Open — Close — Open Duty Cycle	■		
Anti-Pump	■		
Trip Free	■		
Latch Check Switch	■		
Visible Contact Erosion Indicator	■		
Visible Contact Wipe Indicator	■		
Drawout Design			■
Integral Trip Unit			■
Interlock 2 and 3 Breakers			■

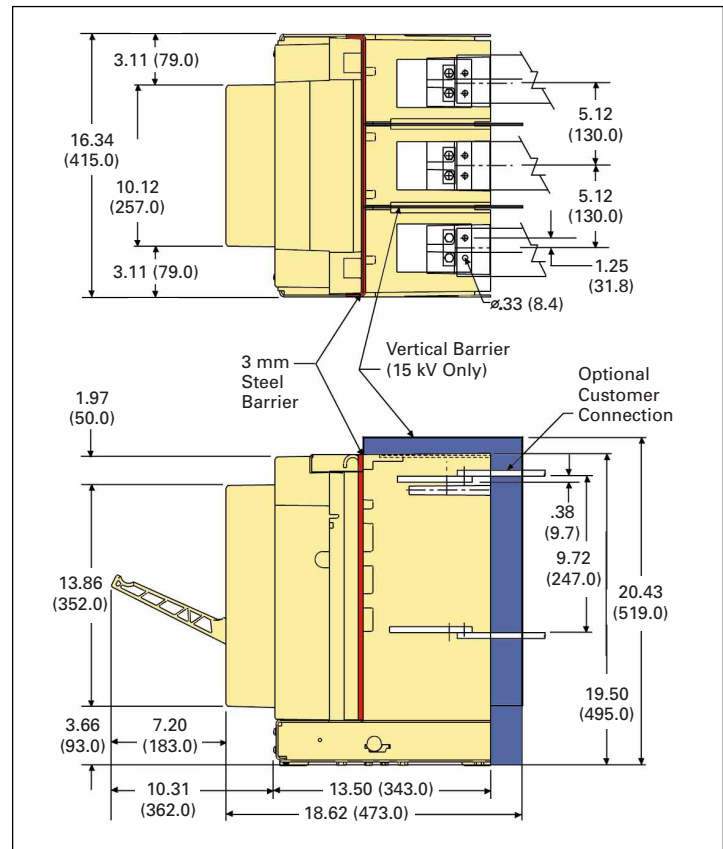
- ① 3 mm steel barrier between mechanism and primary conductors.
 ② Includes shunt trip.
 ③ Includes shunt trip and spring release, field installable.
 ④ Heavy duty, double break, wipe type for customer use.
 ⑤ Field installable, viewed through viewing window, maximum three devices (any combination).
 ⑥ Limits access to pushbuttons, metal or plastic.
 ⑦ Prevents access to ON pushbutton — used in conjunction with pushbutton cover.
 ⑧ Prevents breaker from closing.
 ⑨ Used with standard sling.
 ⑩ Supplied separately as a kit.

For more information on Cutler-Hammer products and services, call 1-800-525-2000 or visit our Web site at www.cutler-hammer.eaton.com

Kirk is a registered trademark of the Kirk Key Interlock Company LLC.

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T-VACR Dimensions Up to 17.5 kV — Inches (mm)



T-VACR Breaker Ratings and Weights (IEC60056)

Identification Circuit Breaker Type	Rated Values							Approx. Weight Lbs. (kg)
	Voltage kV rms	Insulation Level Withstand Voltage		Normal Current Amps.	Short Circuit Breaking Current kA rms	3 Sec. Short Time Current kA rms	Short Circuit Making Current kA Peak	
		Power Freq. kV rms	Lightning Impulse kV Peak					
72T-VACR16	7.2	20	60	630 1250 1600	16	16	40	156 (71) 159 (72) 161 (73)
72T-VACR20	7.2	20	60	630 1250 1600	20	20	50	156 (71) 159 (72) 161 (73)
72T-VACR25	7.2	20	60	630 1250 1600	25	25	63	156 (71) 159 (72) 161 (73)
120T-VACR16	12	28	75	630 1250 1600	16	16	40	156 (71) 159 (72) 161 (73)
120T-VACR20	12	28	75	630 1250 1600	20	20	50	156 (71) 159 (72) 161 (73)
120T-VACR25	12	28	75	630 1250 1600	25	25	63	156 (71) 159 (72) 161 (73)
175T-VACR16	17.5	36	95	630 1250 1600	16	16	40	156 (71) 159 (72) 161 (73)
175T-VACR20	17.5	36	95	630 1250 1600	20	20	50	156 (71) 159 (72) 161 (73)
175T-VACR25	17.5	36	95	630 1250 1600	25	25	63	156 (71) 159 (72) 161 (73)

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