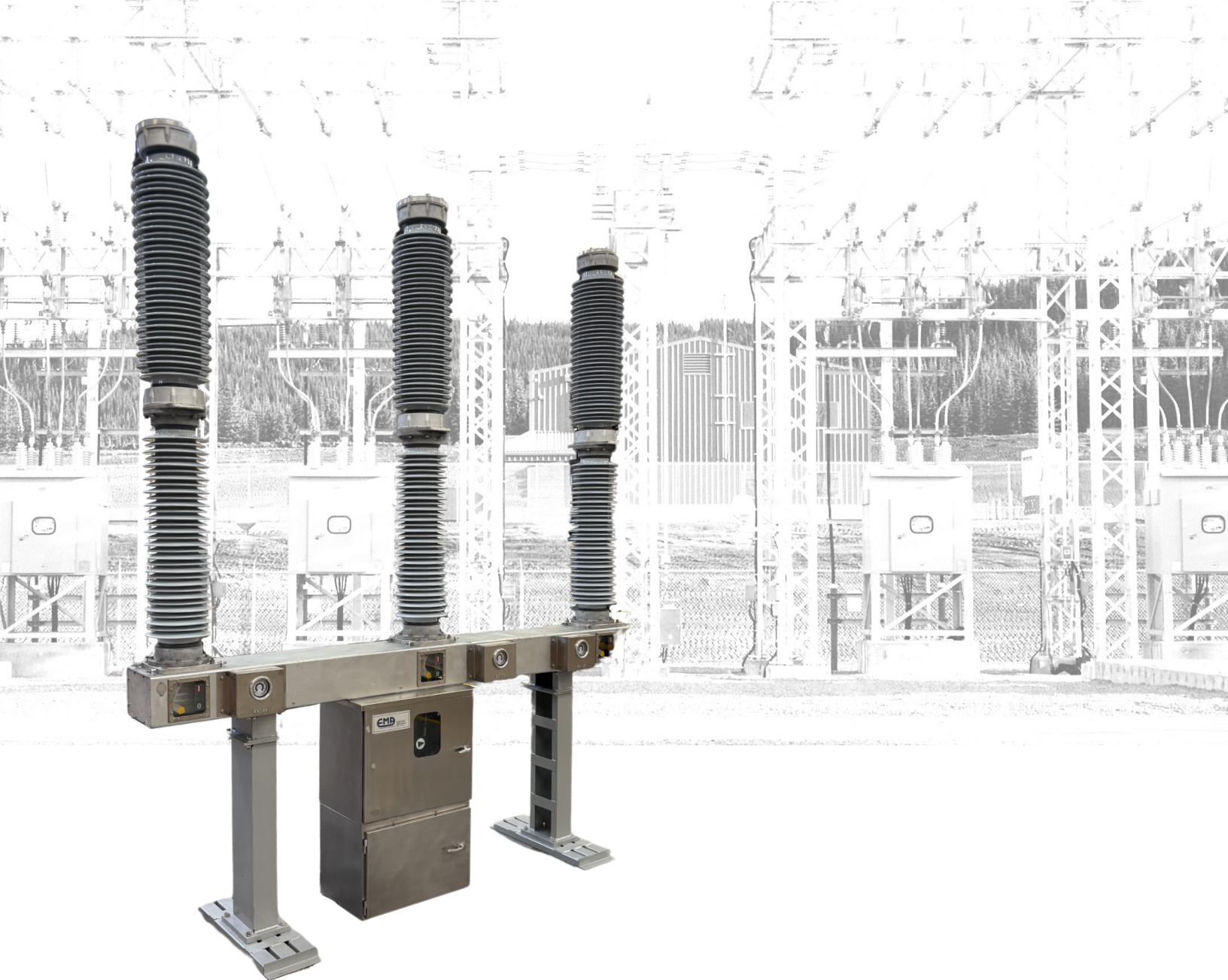




HVCB 145

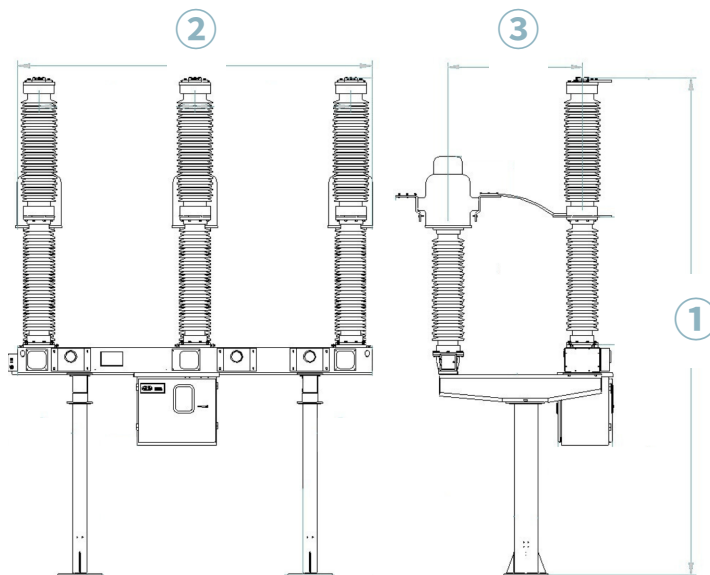
High Voltage Disconnecting Circuit Breaker
(Optionally with integrated bar-type Current Transformers)
145 kV - 3150 A - 40 kA



HVCB 145 Electrical Ratings

Designation Code	Rated maximum voltage	Rated continuous current	Rated symmetrical interrupting capability	Rated short-time current (RMS)	Rated closing and latching current (peak)	Lighting impulse withstand voltage to earth (BIL)	Lighting impulse withstand voltage across open pole	Rated frequency	Dry withstand 60 Hz 1 min	Wet withstand 60 Hz 10 sec	Rated Operating Sequence	Opening Time	Closing time
	kV	A	kA	kA _(3sec)	kA	kV	kV	Hz	kV	kV		msec	msec
145.30.40	145	3150	40	40	104	650	750	50/60	315	315	O-0.3s-CO-180s-CO O-0.3s-CO-15s-CO	26-36	40-50

Dimensions & Weight



- ① **Height:** 220 in | 5600 mm
- ② **Width:** 157 in | 3985 mm
- ③ **Depth:** 59 in | 1500 mm

Main Characteristics

EMA's HVCB 145 kV is a live-tank high-voltage circuit breaker that combines the functions of a circuit breaker and a disconnecter in a single, compact unit. Designed in compliance with ANSI IEEE Std C37.06 and C37.09, it offers reliable interruption and full isolation.

The breaker also allows integration of current transformers, enabling measurement capabilities similar to a dead-tank circuit breaker while maintaining the compactness and modularity of a live-tank design.

It also features an advanced double motion system, where both arc-breaking contacts move in opposite directions—doubling the relative speed of separation and ensuring faster, more efficient arc extinction with less mechanical energy.

Optional remote lock and testing features enhance safety and operational efficiency by eliminating the need for on-site intervention.

With a reduced footprint, simplified maintenance, and optional remote lock features for safer operations, the HVCB delivers technical and economic advantages ideal for modern substations.

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