CONDIS®

> HV Capacitors

TRV Capacitors for Circuit Breaker Reliability: Brownfield Retrofits and Greenfield Designs

CHALLENGES

Adding Transient Recovery Voltage (TRV) capacitors to the power grid provides a proven way to mitigate overvoltages while enhancing the reliability and performance of circuit breakers.

When strategically installed near breakers, these capacitors reduce the severity of TRV and the rate of rise of recovery voltage (RRRV) during interruption, protecting equipment and supporting more reliable power delivery.

KEY ADVANTAGES

- Swiss Made
- Long maintenance-free lifetime
- High transient performance with compact and efficient design

PRODUCT FEATURES

These are sample values. Values out of these ranges are available upon request.

Electrical specifications

Rated Voltage of the equipment, kV	up to 800
Rated Voltage, kV	up to 462
Rated Capacitance, pF	from 1,000 to 200,000
Frequency, Hz	50/60
Partial Discharge, pC	less than 5
Rated lightning impulse withstand voltage, kV	up to 2,100
Rated switching impulse withstand voltage, kV	up to 1,550
Short-duration power frequency withstand voltage, kV	up to 975

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Mechanical specifications

Cantilever strength, kNm	up to 30

Environmental

Temperature	from -60°C to 90°C
Environment	air and gas

Coupling standards

	IEC 660358-1

CONDIS' TRV capacitors are installed in following equipment when transient recovery voltages need to be handled:

- ✓ Dead tank circuit breaker
- ✓ Generator circuit breaker
- ✓ Gas insulated circuit breaker

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