

## Current Limiting Reactors (CLR) Capacitors

CURRENT LIMITING REACTORS ARE USED WHEN THE SHORT-CIRCUIT CURRENT IN A DISTRIBUTION OR TRANSMISSION ELECTRICAL SYSTEM WILL EXCEED THE INTERRUPTING RATING OF THE SWITCHGEAR.

CLR ARE AN ALTERNATIVE TO THE REPLACEMENT OF A CIRCUIT BREAKER IN THE SWITCHGEAR BY LIMITING SHORT-CIRCUIT CURRENT LEVELS.

IT ALLOWS A LONGER OPERATION OF THE CIRCUIT BREAKER AND AVOIDS ITS PREMATURE WEAR.

CLR are associated with big inductances. This could produce severe transient recovery voltage (TRV) or rise the rate of recovery voltage (RRRV) across the circuit breaker contacts, during an opening in case of short line fault. CLR Capacitors help mitigate this phenomenon.

CLR Capacitors are installed in parallel to the series reactor (CLR) and/or on each of its terminals phase to ground.



### KEY ADVANTAGE

Based on a highly flexible technology, our experts design CLR capacitors to meet specific mechanical and electrical requirements.

- ✓ Long maintenance-free lifetime
- ✓ Swiss Made
- ✓ Larger capacitance value than competition in one single capacitor

### PRODUCT FEATURES

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

Capacitance	built up to 30nF
Typical cantilever strength value	built up to 25kNm
Nominal voltage Um	built from 63 kV up to 550 kV 50/60Hz
Switching impulse voltage	built up to 1175kV 250/2500µs
Lightning impulse voltage	built up to 1550kV 1.2/50µs
Adapted corona rings can be included if required	