KSR-Capacitor Protection Relay

Detection → threshold → **Alarm** → time → **Trip**

Detection

Capacitor banks:
MV (10 kV / 20 kV / 30 kV)
HV (60 kV / 110 kV)

- Voltage measurement
- Current measurement
- Unbalanced detection voltage / current

RMS values of fundamental waves without harmonics is measured
The **unbalance current** is measured in the star point connection of two stages.

Alarm

- Over load
- over voltage
- under voltage
- Earth fault detection
- Out-of-balance detection at doublestar- and H-circuits
- Voltage asymmetric monitoring
- Capacitor over load harmonic protection
- Capacitor stage unbalance protection
- Unsymmetrical protection
- Protection against repetitive overload events (KSR-Z)

Trip

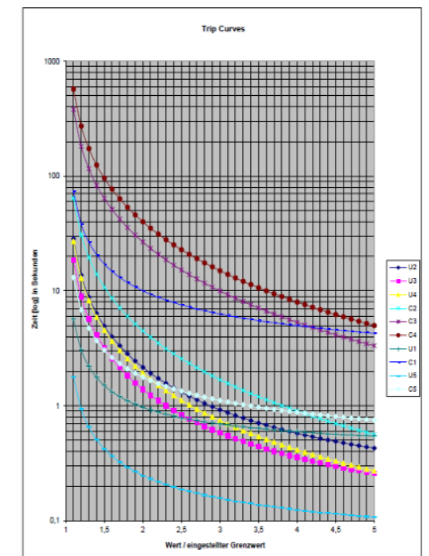**KSR1 und KSR**
Limit value monitoring / Triggering after time X
KSR-Z
Limit value monitoring according to IEC tripping depending on the current intensity!
Trip / Alarm time depends on the exceeding level of the adjusted threshold!

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