



NTSA

DEFINED POWER PROTECTION

PROTEC Z – The ultimate transient switching surge protection device for LV, MV and HV applications

PROTEC Z LV Combo



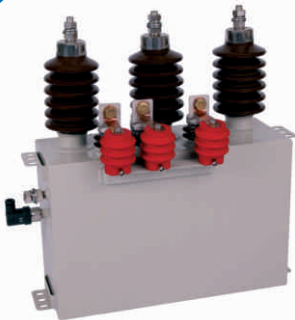
- Low voltage Transient switching surge and lightning protection combination
- Protection for LV Motors, Generators, Dry Type transformers, VSD's and UPS's
- Voltage range from: 440 V up to 1150 V
- Explosion proof, Vibration proof and Water proof (IP65)
- Temperature range: -40°C to +70°C

PROTEC Z MV



- 4 Models covering all ranges from 2kV to 13,8kV 50 / 60 Hz both machine and panel mount
- Protection for switchgear, motors, generators and Dry type transformers
- All units fitted with a safety switch as standard
- THD (V) 10%
- Temperature range: -40°C to +80°C
- Standards: IEC 60871-1: 2005
 - : VDE 0560 part 410
 - : ANSI/IEEE 18
 - : NEMA CP-1

PROTEC Z +



- Combined Transient switching surge suppressor with PD sensors for PD monitoring and rotating machine management
- Voltage range: 6kV to 13,8kV
- Safety switch
- THD (V) 10%
- Temperature range: -40°C to +80°C
- Standards: IEC 60871-1: 2005
 - : VDE 0560 part 410
 - : ANSI/IEEE 18
 - : NEMA CP-1



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Protection, automation and control
relays for the power industry



TRIM - Power Transformer inrush minimizer

- Controlled switching to prevent transformer inrush currents in power transformers
- Three phase and Single phase operations
- Can be used as independent device or combined in a complex transformer protection system
- Control of common or independent CB drives
- Easy parameter settings and commissioning
- Build in event and disturbance recorder
- Compatible with IEC 61850



DTRV - Power Transformer, generator protection & control

- Automatic voltage regulation and tap changer control functions as well as for parallel coupled transformers
- Predefined voltage control plan
- Biased differential protection characteristics
- Restricted earth fault protection
- Small generator protection incl synchrocheck and synchroswitching
- Colour TFT touch screen
- Build in event and disturbance recorder
- Compatible with IEC 61850



DTIVA - MV Feeder protection and control applications for cables, overhead lines, motors, distributed generators and capacitor banks

- Complete MV bay units including full protection and control functions
- Enhanced interlocking schemes
- Distribution load shedding schemes
- Protection against islanding operation for wind farm and photovoltaic energy applications
- Colour TFT touch screen
- Build in event and disturbance recorder
- Compatible with IEC 61850