

DISCONNECTORS

Your partner for high-voltage and medium-voltage disconnectors



Current and voltage – our passion





DISCONNECTORS for highand medium-voltage networks

Without risk over time

ALPHA Elektrotechnik has specialised in becoming an all-rounder for disconnectors for highand medium-voltage networks from 3 to 550 kV. The manufacturing programme encompasses products that are designed for both external and internal applications.

As disconnectors need to satisfy the particular requirements of a customer in a targeted way, they are an important component in energy distribution. Given the wide range of requirements and climatic conditions, each of the specification is unique and differentiates the disconnector from any other.

However, ALPHA disconnectors do have a common feature: they embody the high quality and reliability that enable them to deliver long-term performance under extreme conditions such as icy and high temperatures, significant sun exposure, sand, wind, earthquakes and so forth – an additional benefit that has absolutely no bearing on the cost-benefit calculation. Insulators, contacts, motors, pantographs: all the essential components perform as a single unit. More than 80 years of experience, more than 800 deliveries of disconnectors annually and more than 80,000 disconnectors in the network are all the proof you need.

ALPHA also offers post-production, maintenance, replacement and modification services for existing disconnectors. On-site services and installation complete the portfolio. The continous enhancement of our products is a daily challenge where we contribute our expierence of decades.

DISCONNECTORS: without risk over time - all highly charged

High-voltage disconnectors

Outdoor



EF (24 - 420) kV

- Earthing switch
- Outdoor
- I_K: 80/31.5 160/63kA



TFPK (72.5 – 170) kV

- Pantograph disconnector
- Single scissor design
- Outdoor
- I_N: 1600 3150 A
- I_K: 100/40 kA



TFPA (170 – 245) kV

- Pantograph disconnector
- Single scissor design
- Outdoor
- I_N: 2000 4000 A
- I_K: 100/40 kA 160/63 kA



TFP (245 – 420) kV

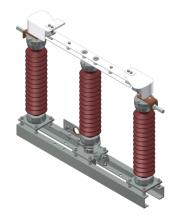
- Pantograph disconnector
- Double scissor design
- Outdoor
- I_N: 2000 4000 A
- I_K: 100/40 kA 160/63 kA

High-voltage disconnectors/drives Indoor and outdoor



CBD (72.5 - 420) kV

- Center break disconnector
- Outdoor
- With or without integrated earthing switch (CBDE/CBDEE)
- I_N: 1600 4000 A
- I_K: 80/31.5 kA 160/63 kA



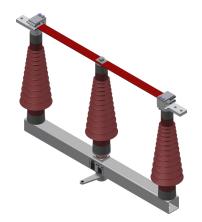
TFD (72.5 – 245) kV

- Double break disconnector
- Outdoor
- With or without integrated earthing switch (TFDE/TFDEE)
- I_N: 1250 2800 A
- I_K: 80/31.5 kA 125/50 kA



TFX (170 – 420) kV

- Double break disconnector
- Outdoor
- With or without integrated earthing switch (TFXE/TFXEE)
- I_N: 3150 4000 A
- I_K: 100/40 kA 160/63 kA



TID (72.5 – 123) kV

- Double break disconnector
- Indoor
- With or without integrated earthing switch (TIDE/TIDEE)
- I_N: 630 3150 A
- I_K: 80/31.5 kA 100/40 kA





MD

- Motor drive
- DC: 110 220VDC
- AC: 230 400 VAC
- 70° or 90°

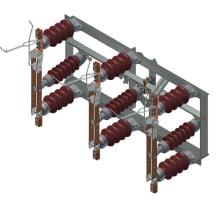
HD

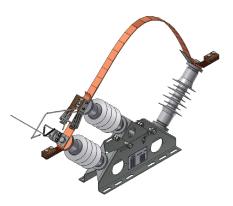
- Hand drive
- Electromechanical locking mechanism with 110 – 220 VDC
- 70° or 90°

Medium-voltage disconnectors

Indoor and outdoor







FSO (24 – 36) kV

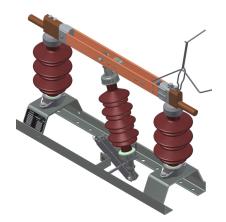
- Over head line (OHL) switch with arcing horns, arc quenching chamber or forced earthing
- Outdoor
- I_N: 630A
- I_K: 60/24kA

FSU (24 - 36) kV

- Branch switch with arcing horns, arc quenching chamber or forced earthing
- Outdoor
- I_N: 630A
- I_K: 60/24 kA

FSM (24 – 36) kV

- Over head line (OHL) or branch switch with arcing horns or arc quenching chamber
- Outdoor
- I_N: 630A
- I_K: 60/24 kA



TFS $(12 - 52) \, kV$

- Vertical disconnector for railway applications with spark conductor
- Outdoor
- I_N: 630 3400 A
- I_K: 80/31.5 kA 100/40 kA





TIS (24 – 52) kV

- Vertical disconnector with or without integrated earthing switch
- Indoor
- I_N: 600 3400 A
- I_K: 80/31.5 kA 100/40 kA

EI (24 – 72.5) kV

- Earthing switch
- Indoor
- I_K: 80/31.5kA 100/40kA

References

Indoor and outdoor



Switzerland

- Type TFD double break disconnector
- Outdoor, 72.5 245 kV
- Scope of delivery: 300 units



Denmark

- Type TID double break disconnector
- Indoor, 72.5kV
- Scope of delivery: 30 units



Austria

- Type CBDE center break disconnector with integrated earthing switch
- Outdoor, 72.5 420 kV
- Scope of delivery: 88 units



Spain

- Type TFPK pantograph disconnector
- Outdoor, 123 kV
- Scope of delivery: 121 units



Belgium

- Type CBDE center break disconnector with integrated earthing switch
- Outdoor, 80 420 kV
- Scope of delivery: 114 units



Switzerland

- Type TFPA pantograph disconnector
- Outdoor, 170 420 kV
- Scope of delivery: 180 units
- and another 80,000 disconnectors in the network

DISCONNECTORS



ROLLING STOCK





Current and voltage – our passion

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