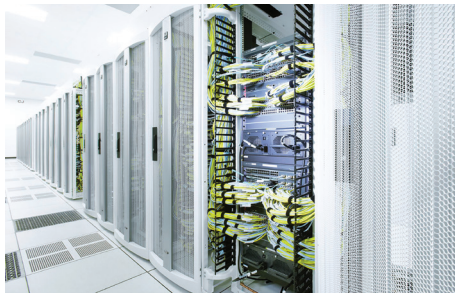


# Transient Voltage Protection for transformers

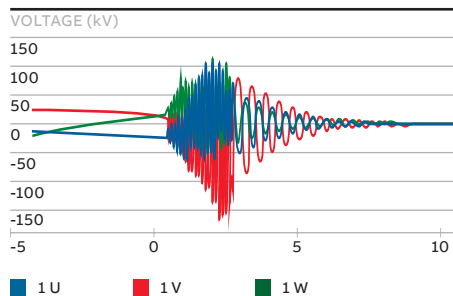
## Eliminate network switching failures in data centers

### Data Centers need reliable power



- Consistent and reliable power is the essence of any data center operation
- To ensure this, data center employ a complex and specialized power distribution network
- Circuit breakers are integral part of this network, so are distribution transformers

### Impact of switching on transformers



- Switching of vacuum and SF6 circuit breakers can produce fast transient over-voltages inside transformer windings that cause irreparable damage
- This repeated deterioration of transformer winding eventually leads to unwarned transformer failure resulting in an unplanned downtime

### The Solution



- To resolve this challenge for Data Centers, ABB has developed a dry-type transformer with Transient Voltage Protection (TVP) that can operate safely with vacuum circuit breakers
- This specially designed transformers utilize winding varistors that are strategically placed on the transformer to protect it from transient voltages

### ABB's Dry type Transformers with Transient Voltage Protection (TVP) Technology

ABB's transformers with Transient Voltage Protection (TVP) provides a wide range of effective benefits to the system it is installed within.



Works on nearly the entire scope of ABB distribution dry-type transformers



Works in all systems; eliminates need for system studies



No additional maintenance



Capable of protecting downstream magnetic equipment



Completely dry solution



Does not affect size of transformer

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