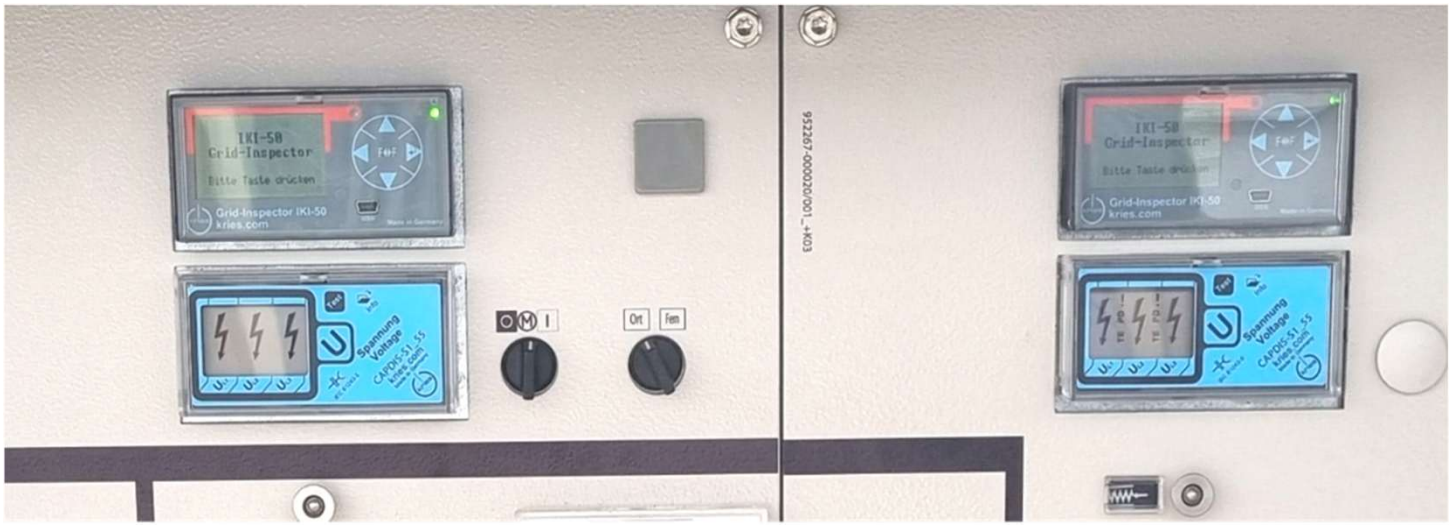
CAPDIS R5: Condition-Monitoring for Datacenters and CRITIS



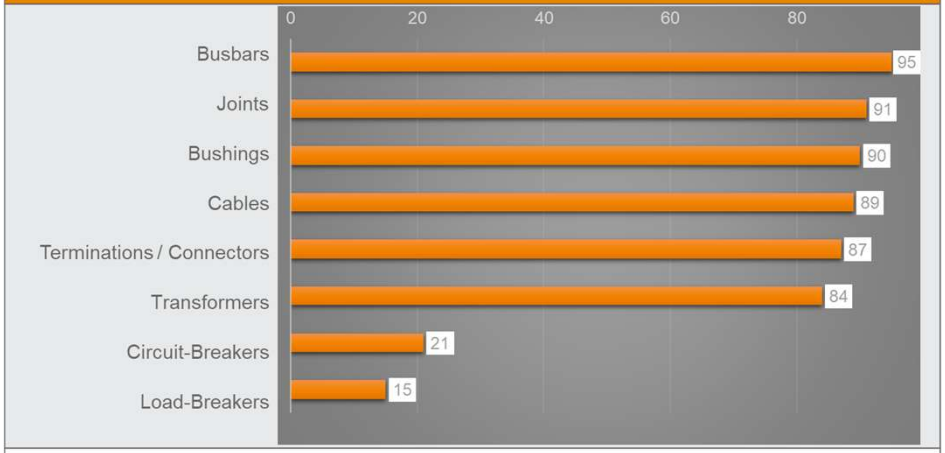
CAPDIS R5 expands FLISR by Forecast Function and avoids Outages in Critical Information Infrastructures (CRITIS) **e.g. T3- and T4- Datacenters**

Datacenter Insurance:
„Online condition monitoring of MV-insulation quality is a risk mitigation measure and is taken into account when calculating the MFL“
(MFL = Maximum Foreseeable Loss)

Datacenter Insurances recommend online-PD detection for T3- and T4-approved DCs

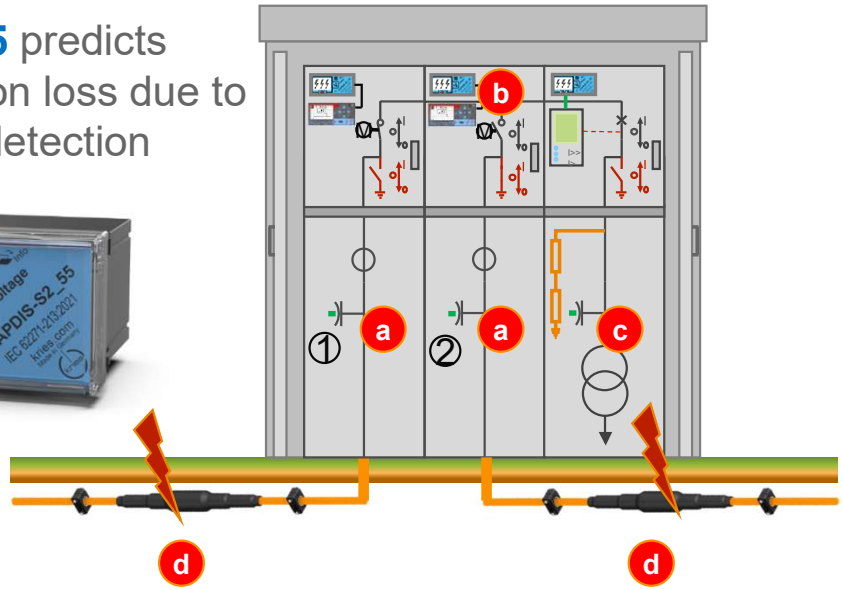
CAPDIS R5: Fault Predicton by Partial Discharge Detection

In IEEE Goldbook Table 36 the failure-frequencies due to insulation losses - (i.e. Partial Discharge) for individual components are listed:



Example: 84% of Transformer failures are related to insulation losses

CAPDIS R5 predicts the insulation loss due to online PD-detection



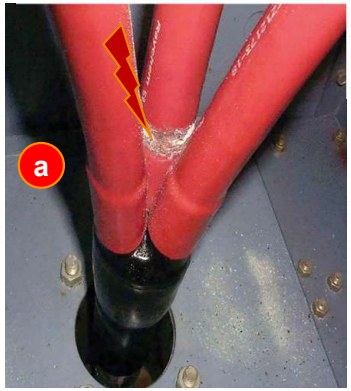
Typical PD-Sources:

a) Defective terminations or grounding

b) Defective busbars

c) Defective transformers

d) Defective joints



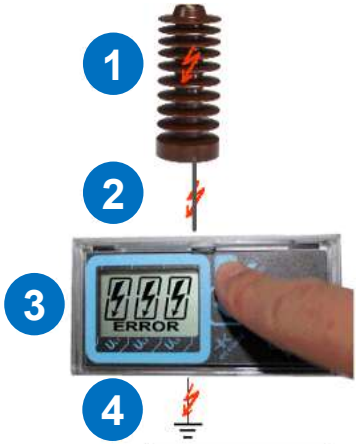
CAPDIS R5: Safest Voltage and Insulation-Monitoring minimizes Arc-Fault Risk for Operator and CRITIS- Grid

CAPDIS R5 = Voltage and PD detection

- Voltage Detecting according to IEC-62271-213
- Free of maintenance, no battery required
- Complete self-test

Safe voltage testing including:

1. Insulation test
2. Connecting line test
3. Equipment test
4. Grounding test
5. Threshold test
6. PD detection with CAPDIS R5



Online PD-Detection:

- *Minimizes Arc-Fault Risk for Operator*
- ***Predicts Insulation losses***

Patented PD-sensor allows wide detection range