Data Sheet

high performance inductive PD sensors



HFCT 50mm

Techimp High Frequency Current Transformer is an inductive sensor for Partial Discharge measurements. It is suitable for on/off line PD tests on many electrical systems such as cables, transformers, rotating machine, etc... It has to be applied to the ground connection of the system to be tested.

TECHM

A BNC termination is available to connect the HFCT to the Techimp PD detection / analyzer unit through a coaxial cable. The arrow indicates the output voltage (V_{out}) direction in comparison with the input current (I_{in}) direction: when the sensor is installed with the arrow directed to ground junction, the detected voltage signal (V_{out}) has the same phase as the input current (I_{in}).

Benefits

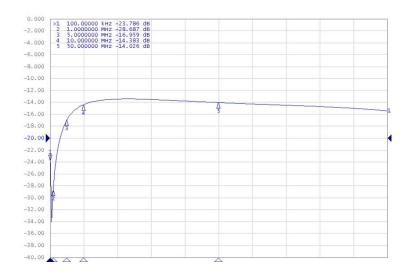
- Maintenance free
- High sensitivity and reliability
- Robust and easy to use
- Safety
- IP 58 rated
- High Current proof

Specifications

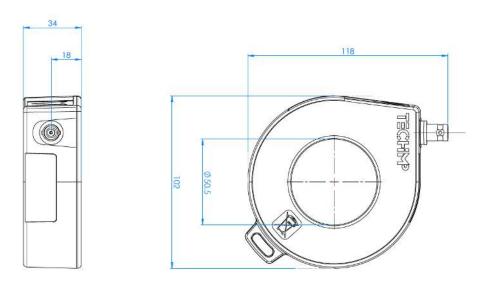
Bandwidth Max Sensitivity (V_{out} / I_{in} @42MHz, 50 Ω load) Load Impedance Max current (@50/60Hz) Hole dimension Lightning impulse Power Frequency Withstand voltage Operating temperature 1MHz ÷ 60MHz 17mV/mA 50Ω 150 A Φ 50mm 72.5kV 15kV for 1 min -20°C +70°C

HFCT 50mm

Frequency Response



Mechanical Specification





Several different sensors are available, fully compatible with Techimp Global Diagnostic platform. They can be freely combined at customer needs provided they can be applied for the specific application.



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