

high performance inductive PD sensors

HFCT 39mm

Techimp High Frequency Current Transformer 39mm Clamp is an inductive sensor for Partial Discharge detection. It is suitable for on/off line PD tests on many electrical systems such as cables, transformers, rotating machine, etc...

The main advantage of the HFCT 39mm Clamp is the easy installation on the ground connection of the electrical system under test without the need of disconnecting it.

A coaxial BNC connector is available to connect the HFCT 39mm Clamp to any Techimp PD acquisition unit by means of a 50Ω coaxial cable.

The arrow on the enclosure indicates the polarity of the output voltage (V_{out}) in relation to the input current (I_{in}) direction: when the sensor is installed with the arrow directed to ground, the detected voltage signal (V_{out}) has the same phase as the input current (I_{in}).

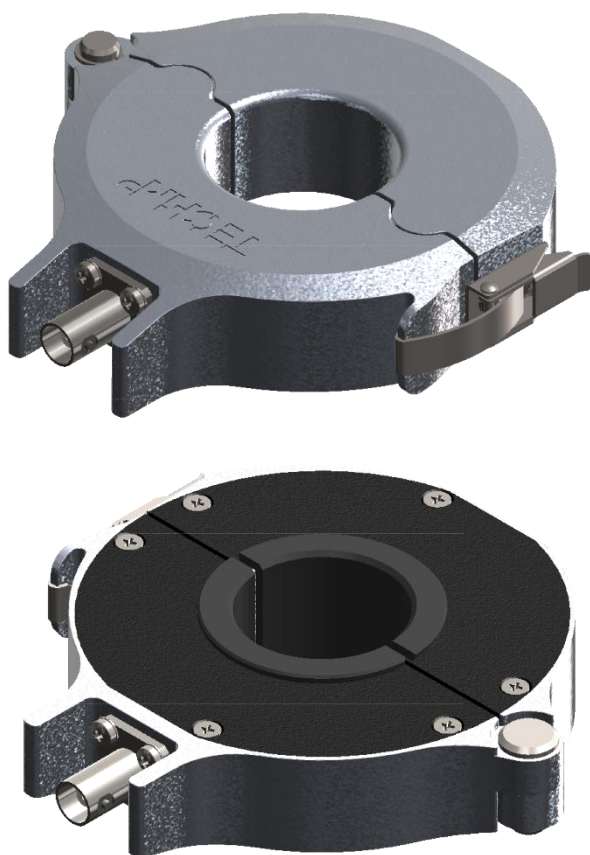
Benefits

- Maintenance free
- High sensitivity and reliability
- Robust and easy to use
- Safety

Specifications

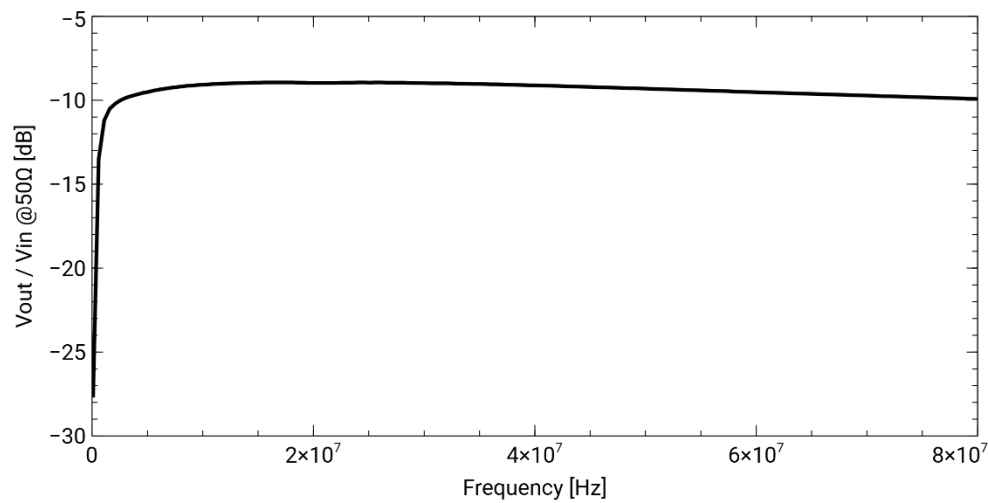
Bandwidth
Max Sensitivity (V_{out} / I_{in} @5MHz)
Load Impedance
Hole dimension
Operating temperature

1MHz ÷ 80MHz
19mV/mA
50Ω
Φ 39mm
-20°C +70°C

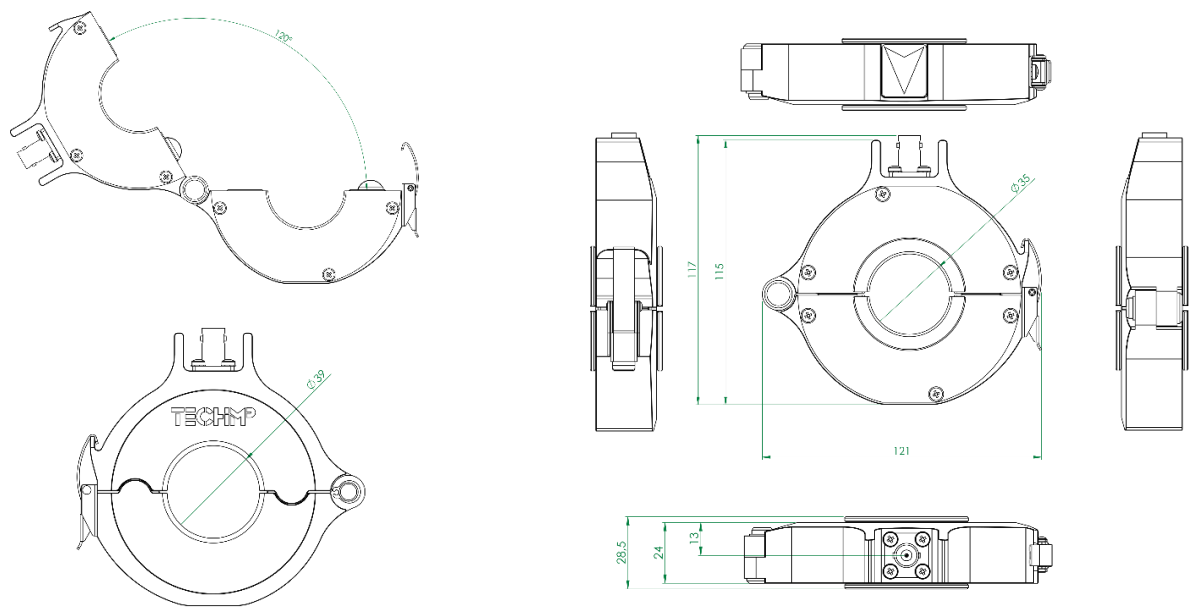


HFCT 39mm

Frequency Response



Mechanical Specification



Suitable For

| | | | | | | | | | | | |
|---------------|---------------|---------------|-------|---------------|------------|-------------------|------------------|------------------------------|-------------|-------------|-------|
| HVAC CABLE | MVAC CABLE | HVDC CABLE | MOTOR | GENERA TOR | PWM VSD | GIS GIL GIB | SWITCH BOARDS | OUTDO OR INSULA TOR | HV TRAFO | MV TRAFO | TA/TV |
|---------------|---------------|---------------|-------|---------------|------------|-------------------|------------------|------------------------------|-------------|-------------|-------|

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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