

High performance inductive PD sensors



HFCT 78mm

Techimp High Frequency Current Transformer 78mm 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 78mm 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 78mm 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

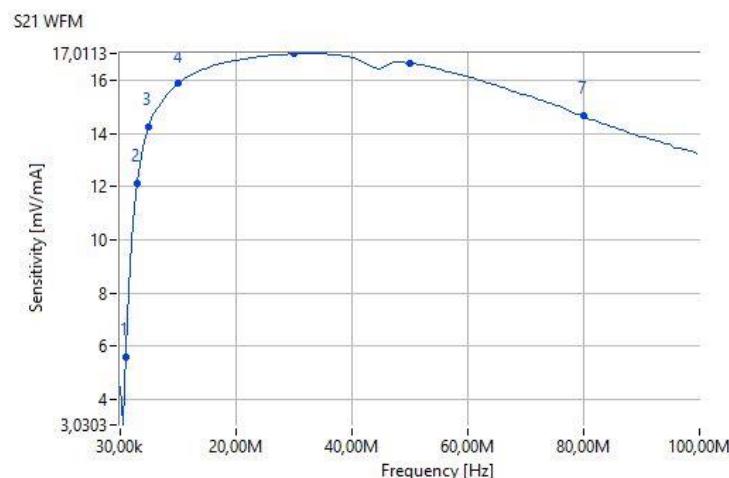
50Ω

Φ 78mm

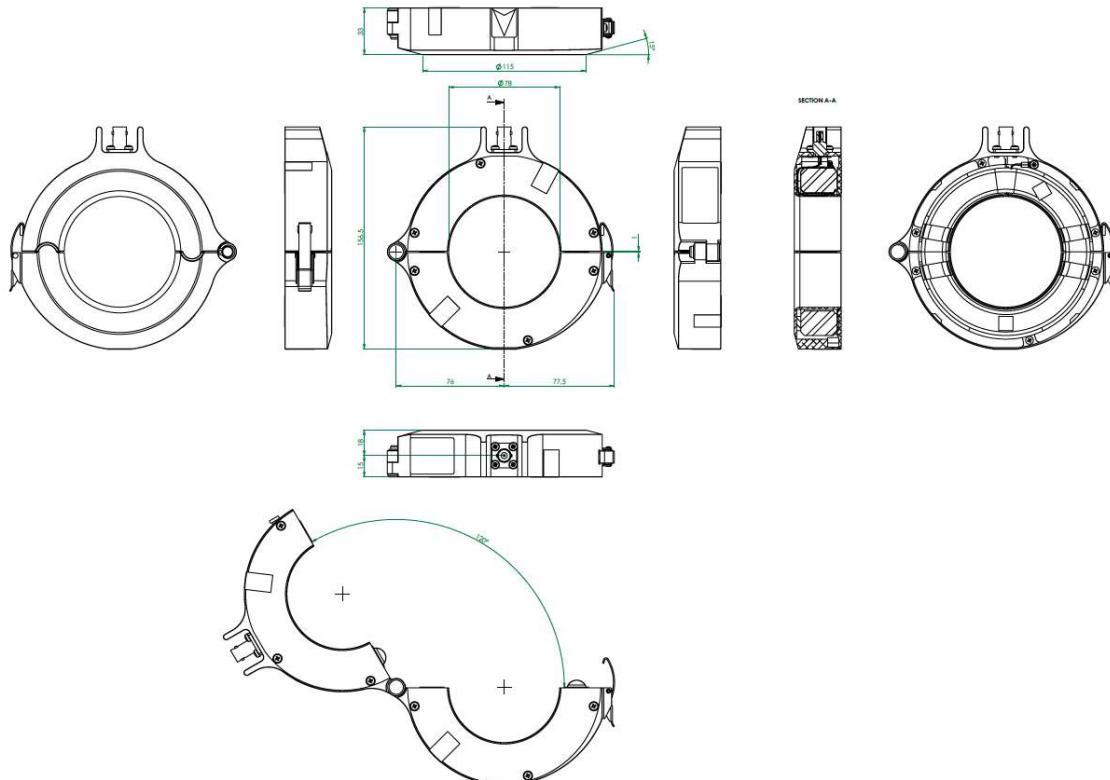
-20°C +70°C

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Frequency Response



Mechanical Specification



Suitable For

HVAC CABLE	MVAC CABLE	HVDC CABLE	MOTOR	GENERATOR	PWM VSD	GIS GIL GIB	SWITCH BOARDS	OUTDO OR INSULATOR	HV TRAFO	MV TRAFO	TA/TV
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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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