

Partial Discharge Coupling Capacitor ***7kV rms / 1000pF***



Key Features

- Nominal Voltage 7kVrms
- Build in Quadrupole with voltage reference output
- Build in Overvoltage Protection
- Capacitive floating Signal output to avoid Eddy Current Loops

Applications

- Small Hydro Generators
- Windmills
- Industrial Motors

PDC7-1000

General Description

The 1000pF coupling capacitor is a sensor used for online and offline partial discharge measurements on rotating machines. The sensor will be usually installed at the busbar or on the high voltage terminals of the rotating machine. Permanent or temporary partial discharge detectors / analyzers can be connected via standard RG58 BNC cables to the coupler, usually by using a termination box in between.

The PDC7-1000 has an integrated high voltage cable which will be connected via cable lugs to the high voltage busbars of the rotating machine to pickup partial discharge signals without any loss. A specially designed measurement impedance located in the base of the sensor allows to pick up partial discharge signals as well as the line frequency (1:1000). This allows to transfer partial discharge signals and line frequency signal over the same cable to the partial discharge detector.

The Signal output is protected via 90V surge arrestor. The 'shield' of the coaxial output is capacitive floating to avoid eddy currents in the signal cables due to high magnetic fields.

Ordering Information

Order Code: 18.0070.1000

Partial Discharge Coupling Capacitor

7kV rms / 1000pF



Technical Data

Electrical

Nominal Voltage:	7kV rms	PD Level @ Un:	< 5pC
Capacitance:	1000pF	Voltage Divider:	1:1000
Frequency Range:	50/60Hz	Signal Output Type:	BNC female
		Ground Connection:	M6
Withstand Voltage (1min):	23kVrms		
Lightning Impulse Withstand (BIL):	60kVp	Creeping Distance (mm):	66+Cable
	(1.2/50us, 10p / 10n)		

Environment

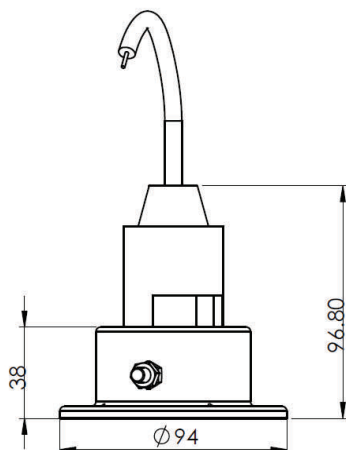
Operating Temperature Range: -20 .. +125°C

Mechanical

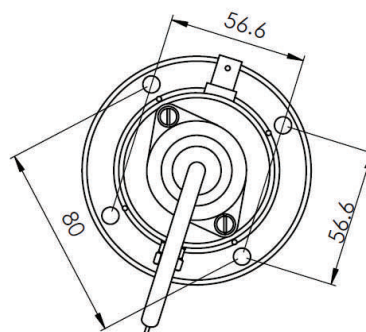
Mounting / Fixing:	4x M6 Allen Key Screws	Electrical Connection:	70cm HV Cable 2.5mm2
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Dimensions

Outline:



Fixing:



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