AKV 9330

Active wide band quadripole system optimized for PD testing of large power capacitors

Datasheet

HAEFELY

Current and voltage – our passion

Designed by Tettex

General Description

The AKV 9330 has been specially designed for Partial Discharge (PD) testing of power capacitors. It addresses two major problems associated with large capacitor PD testing – reduced measurement sensitivity and high current requirements. By a new approach, AKV 9330 amplifies the PD measuring sensitivity significantly while simultaneously handling power frequency currents up to 300 A. It is an ideal IEC 60270 - compliant solution for PD testing of power capacitors.

Features	Advantages
▪ Active measuring impedance system using a special high frequency current transformer	☑ High sensitivity for PD measurement – In comparison with other quadripoles the AKV 9330 provides the highest sensitivity for the PD testing of large power capacitors, thanks to the unique and specific design.
▪ Compact design and standard BNC connectors	☑ Easy to integrate into test systems
▪ Large input current (up to 300 A)	☑ Optimized for the complete spectrum of power capacitors (from LV to MV (HV) range)
▪ Built in overvoltage protection	☑ The built-in overvoltage protection will protect the PD detector in case a flash in the test object would happen during the test.
▪ Measuring band exceeds the requirements of the IEC and ANSI standard.	☑ Fulfils the IEC and ANSI standards

Applications

- Power capacitors (LV, MV, HV)
- Research and development

Scope of Supply

- AKV 9330 active quadripole system
- DC Power Supply
- Coaxial twin cable - BNC-BNC 10m length
- Set of connection cable accessories
- Test certificate and operating manual

Technical Data

PD measurement system	
PD lower limit frequency	< 82 kHz (typically 77 kHz)
PD upper limit frequency	> 8 MHz
Output impedance	50 Ω
Max. current	300 A (RMS)

Connectors	
Input	29.5 mm (diameter of primary conductor feed through)
Output	1 x BNC (PD)
Power input	1 x BNC (15 V DC)
Grounding	1 x 8 mm wing nut

Environmental	
Operating temperature	0 °C … +60 °C
Storage temperature	-20 °C … +65 °C
Humidity	5 ... 80% r.h., non-condensing

Mechanical	
Dimensions (W x D x H)	160 x 130 x 71 mm (6.3 x 5.1 x 2.8 in)
Weight	2.1 kg (4.6 lb)

Applicable Standards	
General	IEC 60270:2000+AMD1:2015
CE conformity	EMC Directive 2014/30/EU and RoHS Directive 2011/65/EU

Global Presence

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