Centrix 3-phase

Method	Basic Modules	Options
Insulation Testing		
500 and 1000 V	Integrated automatic or manual resistance and insulation testing	Megger BM 222 or similar up to 1000 V through external port
	L – L and L – N, 6 Measurements	
	R_{iso}: 200 kΩ … 20 MΩ	
6 V	10 Ω … 2 kΩ	
HV Testing		
DC Testing	0 … 8 kV, I_N 195 mA, I_{max} 580 ± 20 mA	>8 … 40 kV, I_N 20 mA, I_{max} 300 ± 20 mA
	Automatic shut off at breakdown	>8 … 80 kV, I_N 13.5 mA, I_{max} 180 ± 20 mA
VLF Testing		Integrated VLF 0 … 54 kV 0.1 Hz Cosine Rectangular Wave, max. cable capacity 5 µF @ 54 kV, 8 µF @ 36 kV, 21 µF @ 18 kV
Sheath Testing	0 … 5 kV / 0 … 10 kV / 0 … 15 kV 0 … 20 kV, I max. 580 ± 20 mA	
Prelocation		
Impulse Reflection Measurement	Mode: Direct, Difference, Comparison, Average, Intermittent Fault location IFL, Simultaneous display of six phases or memory contents in selectable colours. Automatic adjustment of Gain, Range and pulse width, auto end detection.	Data Base Software Winkis
Sampling Rate	1 MHz … 100 MHz	
Pulse width	0.05 / 0.1 / 0.2 / 0.5 / 1 / 2 / 5 µs	
Range	80 m … 160 km at v/2 = 80 m/µs	
Pulse amplitude	max. 60 V / 1.5 kV for ARM and Decay Plus HV methods	
V/2	10 … 150 m/µs, ft or NVP	
Dynamic range	84 dB	
Compensation	25 Ω ... 1.6 kΩ	
Accuracy	0.2 % of measuring range	
Resolution	0.1 m	
Display	1024 x 768 VGA, 17” Colour TFT	
Interface	RS 232, USB, Printer and data interface	
Storage and Protocoling	Automatic Storage of all measurements. Protocol Printout, also as PDF file or for Transfer to the Winkis Software	
HV - Methods		
ARM		0 … 4 / 8 // 16 / 32 kV
ARM Plus		0 … 4 / 8 // 16 / 32 kV
Decay		0 … 40 // 80 kV
Decay Plus		0 … 40 // 80 kV
ICE 3 ph		0 … 4 / 8 / 16 / 32 kV
Burning		
DC	System Burning	Life Burning (ARM Burning) Fully Integrated. DC Ignition with 20 kV DC Mode 0 … 20 kV, with automatic Burning take over to 600 V DC 40 A
	0 … 4 / 8 / 16 / 32 kV	
	0 … 8 kV, 580 ± 20 mA	
AC		AC Mode 0 … 440 V, 70 A_{rms}

Method	Basic Modules	Options
Pinpointing		
Acoustic Method with Surge module	3 … 30 s	0 … 4 / 0 … 8 kV, 1200 J
		0 … 4 / 0 … 8 kV, 1750 J
Surge Rate		0 … 4 / 0 … 8 kV, 2400 J
		0 … 16 / 0 … 32 kV, 1280 J
		0 … 16 / 0 … 32 kV, 1750 J
		0 … 16 / 0 … 32 kV, 2560 J
		0 … 2 kV, 1200 J
Surge Pinpointing		Digiphone
Sheath fault Pinpointing with Step voltage	0 … 5 / 10 / 15 / 20 kV max. 580 ± 20 mA	Earth fault probe for Pinpointing
Duty cycle	1:3 / 1:6 / 1:12	
Audio Frequency		
Output Power		200 W
Frequencies		491 Hz, 982 Hz, 8.44 kHz
Impedance		0.5 Ω … 1 kΩ, with automatic impedance matching
Sheath fault pinpointing with Audio Frequency		Step Voltage probe, direct or capacitive
Connections		
HV Connection 3 x 1 Phase 110 kV		**ECONOMY:** 50 m, manual cable drum
		COMFORT: 50 m, motor cable drum
		PRO: 50 m, motor slip-ring cable drum
1 x 3 Phased 80 kV		**Multi:** 50 m, motor cable drum
LV Connection	FU monitoring cable, 10 m Integrated safety System Separation Transformer Monitoring of: Voltage Potential Chassis / Earth Fast Potential rises Loop Protective earth to auxiliary earth Loop HV Shield to auxiliary earth	**ECONOMY:** mains cable 50 m, manual slipring cable drum, earth cable 50 m, manual cable drum
		COMFORT: main cable 50 m, Recoiling belt slip ring cable drum, earth cable 50 m, recoiling belt cable drum
		PRO: mains cable 50 m, motor driven slipring cable drum, earth cable 50 m, motor driven cable drum
Teleflex connection		50 m, 3 phased coax cable
Safety cable drum		Safety cable drum 50 m, Emergency OFF. Key interlock, and status display with lights
Operating conditions		
Operation temperature	HV Unit: -25 °C … +55 °C	
	Control Unit: - 5 °C … +55 °C	
Storage Temperature	-25 °C … +70 °C	
Dimensions		
Weight	Depending on Options 900 … 1300 kg	
Mains supply		
Mains voltage	230 V, 50 Hz (16 A connection)	120 V, 60 Hz
		Battery Supply up to 4 Hours
Power consumption	Separation transformer max. 3.6 kVA for extended supply	Separation transformer 5 kVA CEE-plug for extended requirements as Burning, Air condition etc.

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