Megger

CENTRIX CITY

1-phased test system with automatic operating mode selection and optional 3-phased LV measurement

Fault location module with 2-, 3- or 4-step surge generator (thumper)	
Resistance measurement	
Ranges	1 kΩ, 5 MΩ, 100 MΩ
Voltage	1000 ... 5000 V in 100 V steps
DC Test with breakdown recognition	
Voltage	0 ... 40 kV, I_{max} 750 mA
Leakage current	0 ... 1; 1 ... 10; 10 ... 100 mA with automatic measuring area setting
Cable sheath testing	
Voltage	0 ... 5 kV; 0 ... 10 kV; I_{max} 750 mA
Cable fault location – Prelocation methods	
Pulse reflectometry, ARM® Multishot, Decay method, ICE current pulse method, IFL Intermittent fault localisation	
Pulse reflectometry (Teleflex)	
Operating modes	Symmetric/asymmetric reflection measurement, differential and comparative measurement, IFL (for intermittent faults)
Automatic functions	Determination of cable length and fault distance, amplification, measurement range
Amplification	Default: - 37 ... + 37 dB; ProRange: max. 22 dB
Measurement range	20 m ... 1.280 km (for v/2 = 80 m/µs); resolution 0.1 m
Runtime factor v/2	10 ... 149.9 m/µs
Precision	0.1 % of measurement range
Sampling rate	400 MHz
Output Impedance	10 ... 2.000 Ω
Pulse width	20 ns ... 10 µs
Pulse voltage	30 ... 160 V
HV prelocation methods	
ARM® Multishot (15 fault patterns per surge pulse)	
Surge voltage	0 ... 32 kV (opt. 0 ... 25 kV)
Decay method	
Voltage	0 ... 40 kV
ICE - Current pulse method	
Surge voltage	0 ... 32 kV (opt. 0 ... 25 kV)
Fault conversion	
0 ... 8 kV, 750 mA; 0 ... 20 kV, 0.1 A	
Cable fault location – Pinpointing methods	
Acoustic pinpointing	
Voltage levels	0 ... 4; 0 ... 8; 0 ... 16; 0 ... 32 kV
optional	0 ... 3; 0 ... 6; 0 ... 12.5; 0 ... 25 kV
Surge energy	1.000 J or 2.000 J in every voltage range
Surge sequence	6 ... 20 surges/min; individual surge; automatic; controllable
Step voltage method	
Output voltage; Current	0 ... 5 kV; 0 ... 10 kV; Imax 750 mA
Pulse duty factor	1:3; 1:4; 1:6 (low hazard potential due to clocked DC voltage)
Weight	
starting from 140 kg	

Connection of the test system		
HV connection	Economy 25:	25 m, 1-phased cable; manual cable drum
	Economy 50:	50 m, 1-phased cable; manual cable drum
	Pro:	50 m, 1-phased cable; motor-driven cable drum
LV connection	Economy:	50 m mains/protective earth cable, 10 m auxiliary earth; manual cable drums
	Comfort:	50 m mains/protective earth cable, 10 m auxiliary earth; belt pull cable drums
Reflectometer connection	Economy:	50 m, 3-phase coax-cable; manual cable drum
	Comfort:	50 m, 3-phase coax-cable; belt pull cable drum
External emergency stop unit	Economy:	15 m connection cable
	Comfort:	50 m connection cable; belt pull cable drum

Test & Diagnostics module	
VLF-voltage testing according to DIN VDE 0276	
VLF CR 40 test system	
Voltage	0 ... 40 kV_{eff}
Max. load	4.8 µF bei 40 kV_{eff} @ 0.1 Hz
Prüfsystem VLF CR 60	
Voltage	0 ... 40 kV_{eff}
Max. load	2 µF bei 60 kV_{eff} @ 0.1 Hz
Prüfsystem TDM 4540	
CR / 50 Hz Slope	
Voltage	0 ... 40 kV_{eff}
Max. load	5.5 µF bei 36 kV_{eff} @ 0.1 Hz
Sine	
Voltage	0 ... 45 kV
Max. load	0.6 µF bei 32 kVeff @ 0.1 Hz (10 µF bei geringerer Spannung / Frequenz)
DAC (option)	Für zerstörungsfreie TE-Diagnose
Voltage	0 ... 32 kV_{eff}
Max. load	7 µF bei 20 kV_{eff}
PD Diagnosis with 50 Hz Slope-Technology (option)	
tanDelta-Diagnosis and Monitored Withstand Test (option)	
Weight	
starting from 100 kg	

Operating system and display for Fault Location, Testing & Diagnostics	
Operating system	Linux
Memory	8 GB RAM, 8 GB Cfast SSD for system recovery, at least 320 GB HDD
Display	Touch Display 21.5", 1.920 x 1.080 (16:9), Full HD
Database	Automatic backup of all measurements
Data export format	PDF, cableBook database
Data synchronisation	USB 3.0

Add-on features (optional)	
GPS Receiver	Location of the test system in the database software
Remote control	Important system functions can be controlled via mobile devices (3G)
Additional display	

Safety and protection equipment	
Earth monitoring	Operational earth and protective earth to station earth
Step voltage	Auxiliary earth to vehicle chassis
Monitoring	Key switch, rear door switch, emergency stop switch (int./ext.) EN 50919
Supply voltage	Overvolt protection, undervoltage protection, residual current circuit breaker
Isolating transformer	3.6 kVA

System supply an operating conditions	
Input Voltage	230 V, 50 Hz (110 V, 60 Hz)
Power consumption	< 3 kVA
Operating temperature	- 10°C ... + 55°C
Storage temperature	- 25°C ... + 70°C

System supply and comfort (optional)
Travel Power generator 5 kVA
Electric heating 2.000 W
Air conditioning on car roof

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