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CTS-1006 Portable combined device for testing and defining fault location in cable sheath and cables 1kV



Portable combined device for testing and defining fault location of cable sheath CTS-1006 is intended for the following works:

- testing of cable sheath with XLPE insulation, equipped with the function of leakage current measuring;
- burning of faulted sheath of cable with XLPE insulation;
- fault location in sheath of cable with XLPE insulation using method of measuring difference of potential during surge

voltage generator operating.

CTS-1006 is a surge voltage generator combined with a burn down instrument. Generally, the portable device is also intended for testing, burning and defining fault location in cable lines with 1 kV voltage. The device has the following features:

- smooth adjustment of the output voltage, blocking of zero position of the regulator;
- continuous operating regime;
- inbuilt energy discharge capacitor;
- electromechanical step switching mode;
- output high voltage shielded cable, which is rated for the full voltage of the device.

The device is a vertical monoblock. For the ease of moving the device is equipped with a pair of wheels, which is located at the bottom part of the device. On the upper part the construction is equipped with a broad handle for easy moving. While operating the device stands on 4 broad legs. When moving the device leans from the legs to the pair of wheels. So, the unloading of the pair of wheels during the operating the device and safety during the transportation is provided.

For measuring voltage on the output of the transformer and on the object, the system HVD-20 is used.

Advantages:

- Compactability the device is the combination of testing device, burn down instrument and surge voltage generator;
- Safety the device conforms to requirements of standards of safety: IEC61010-1: 2001, EN61010-1: 2001, BS EN 50191:2001;
- Ease of operating and maintenance the device has simple and reliable hand regulation; one can have a good access to all elements of the construction.



Main technical parameters and characteristics of CTS-1006 device

Parameter

Value

Testing

Output test voltage, kV (DC)	0...10
Kilovoltmeter scale, kV (DC)	20
Main measurement accuracy of rectified voltage, %, not more then	3
Measurement range of leakage current, mA	0,2; 2; 20
Ampermeter scale, mA (DC)	200
Main measurement accuracy of leakage current, %, not more then	5

Burning

Useful current in short-circuit conditions during nominal input voltage, A	10
Output voltage of the device in open-circuit mode during nominal input voltage, kV	
1 step, rectified voltage, «2,5kV»	2,5
2 step, rectified voltage, «5kV»	5
3 step, rectified voltage, «10kV»	10
Short-circuit current at the output of the device during nominal input voltage and maximum notch of the voltage generator, A	
1 step, rectified voltage, «2,5kV»	1±0,15
2 step, rectified voltage, «5kV»	0,5±0,07
3 step, rectified voltage, «10kV»	0,25±0,04

Maximum input power of the device in short-circuit conditions, kVA	2
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Fault location using method of measuring difference of potential during surge voltage generator operating

Adjustment range of the amplitude of high voltage pulses, kV	0...2,5 0...5
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Adjustment range of the period of high voltage pulses' following, sec.	5...10
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Maximum energy of high voltage pulses, J	1250
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Storage capacitor, uF	400uF/2,5 kV 100uF/10 kV
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Operating regime	continues
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Supply voltage, 50Hz, V	230±23
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Dimensions (l×w×h), mm	860×640×1100
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Weight, kg, not more then	174
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Length of cables: network, ground, high voltage	3x15 m
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