

SEFELEC RXS500-506

Dielectric strength tester

The RXS500 dielectric strength tester in the XS range carries out simply and comprehensively the dielectric strength tests required by the principle standards concerned by the Low-Voltage Directive.

Available with options, it can be configured depending on the final application regarding its electrical specifications or its use.

Standards EN 61010-1, EN 60950, EN 60598-1, EN 60601-1, EN 60204-1

TECHNICAL CHARACTERISTICS

- Test station for dielectric strength test from 0 to 5 kV AC and from 0 to 6 kV DC (RXS506 model)
- Power 500 VA
- Voltage and current measurement and display
- Delta I and IMAX breakdown detection modes
- 20 parameter memories per function
- Programmable Interface RS232

As option: PLC, IEEE488-2 and ETHERNET

Output voltage

- 0 to 5 kV AC (50 or 60 Hz).
- 0 to 6 kV DC (RXS506 model)
- Specification: +/- (2 % + 50 V) of the programmed value between 100 and 5000 V and for a current < 1 mA with the shutoff modes: ΔI , IMAX or ΔI + IMAX

Voltage reading

- On digital kilovoltmeter directly connected to the output terminals
- Specification: +/- (1.5 % + 20 V)
- Display: 600 digits

Stability

- Better than 3 % for mains supply variations of +/- 10 %

Current

- Short circuit >200 mA AC and > 20 mA DC for the maximum voltage adjustment
- Nominal about 110 mA AC (RXS500/506) and 10 mA DC (RXS506)

Current reading

- On shunt inserted into the test circuit
- Specification: +/- (2.5 % + 2 U) 1 U = 0.1 mA
- Resolution: 1000 digits

Fault detection

- "DELTATEST" detector adjusted for $\Delta I = 10 \text{ mA} \pm 10 \%$ with $10 \text{ } \mu\text{sec.} \pm 20 \%$
- The ΔI detection allows total insensitivity to the current due to the resistance and the capacitance of the sample tested.
- "Imax" detector by maximum current adjustable from 0.1 mA to 110 mA by graduations of 0.1 mA
- Combination of ΔI and Imax modes

Imin threshold function

- Detects whether the test probe is connected correctly to the sample
- Adjustable from 0.1 mA to 110 mA

Continuous Voltage Option

- Positive pole to ground
- Residual ripple < 1 % for I < 1 mA

Fault detection signalling

- By visual indication (LCD screen and LED lights) and sound
- Memorisation of the voltage and the default current on the LCD display unit.
- Guaranteed HV generation interruption without overvoltage

Measurement time

- Adjustment of the rise, holding and fall times from 0 to 999 seconds

Memorisation

- Memorisation of 10 test parameter configurations (voltage, thresholds, time,...)

PROTECTIONS

Instrument

- By time-delay fuse

Operator

- By security loop (double) suppressing voltage generation
- Red light (very bright) signalling the presence of dangerous output voltage

Equipment under test

- Immediate fault detection and voltage interruption of the nominal voltage from the HV transformer.
- Short circuit of the output terminals and discharge of the capacitances tested (voltage option DC - $t < 1 \text{ sec}$ per μF)

GENERAL CHARACTERISTICS

Presentation

- Table device
- Metallic housing

Dimensions

- Height 131 mm
- Width 440 mm
- Depth 450 mm

Weight

- 21 kg

Power supply

- 230 V +/- 15 % single phase, 47 - 63 Hz
- Consumption: max 600 VA



SEFELEC RXS500-506

Dielectric Strength Tester

Operating temperature
 • 0° C to + 45° C

Storage temperature
 • -10° C to + 60° C

Overvoltage category
 • CATII

Degree of pollution
 • 2

Category
 • Category 1 (earth leakage protection)

OPTIONS

XS-02
 PLC Interface, available contacts:
 • START
 • PASS and FAIL
 • ENDOFTTEST
 • FAULT

XS-03
 Input output 0-10 V:
 • Input 0-10 V to control high voltage.
 • Output 0-10 V to read the current or voltage.

XS-06
 Interface IEEE488-2 (Talker - Listener)

XS-08
 PLC Option
 Input 0-10 volts

XS-100
 Ethernet Option

SOFTWARE
 WINPASS-MX software for electro-domestic application

ACCESSORIES

TE65
 Test probe (dielectric + insulation)



C0201
 Test housing with 1 mains base

C0180
 Cord for fixed connection in test system



PI001-04-L02
 HV pistol with remote control - Length 2M

PI001-04-L05
 HV pistol with remote control - Length 5M

PI001-04-LXX
 HV pistol with remote control max length 10M

PI001-10-L02
 2 HV pistols 500 VA + return remote control - length 2M



CO160-XS
 Red/green light



KRXS
 19" rack kit

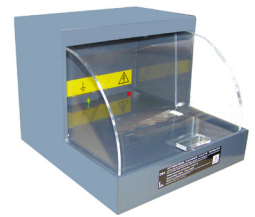


SAFETY CAGES

CA001-00-00+CO007-01-L05
 Safety cage for RXS500/506

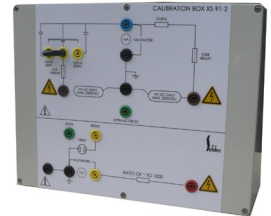


CA002-00-00+CO007-01-L05
 Safety cage for RXS500/506



CALIBRATION BOXES

XS91-2
 Calibration kit for dielectric 500VA



SD500
 Fault simulator



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