

sebaкмт

AC Voltage Test Set T 22/1

Compact and lightweight High-Voltage test system up to 75 kV $_{\rm ms}$ AC 50 Hz

Benefits

- Compact and lightweight
- Continuous testing with AC voltages up to 75 kV_{rms} at 1 kVA
- Expandable with a second transformer for testing up to 150 kV_{rms}
- Built-in overload protection
- ▶ DC testing up to 80 kV with optional rectifier



The AC Voltage Test Set T 22/1 is a portable test set consisting of two separate units: the control unit and the high-voltage unit. This division enables the operator to use the test set on site without transport aids. The test set can be equipped with a rectifier attachment for DC voltage testing up to 80 kV.

The AC Voltage Test Set T 22/1 is used for:

- AC voltage testing of low capacity test objects (e. g. metal-enclosed high voltage switchgear as per VDE 0670)
- ▶ DC voltage testing of cables, cable fittings, installations and equipment up to 80 kV using a rectifier attachment

Technical Features

- ▶ Continuous testing with AC voltages up to 75 kV at 1 kVA
- ▶ Set composed of function blocks:
 - T 22/124 control unit
 - T 22/12 SF6 gas transformer
- ▶ Built-in overload protection
- ▶ DC Voltage testing with rectifier attachment

Operating Method

A high-voltage transformer insulated with insulating gas (SF 6) produces a high voltage of 75 kV $_{\rm ms}$. This voltage is infinitely variable from 0 ... 75 kV using a regulating transformer.

In the basic version for AC voltage testing, the output voltage is calculated and indicated by measurement of the primary voltage of the high-voltage transformer and conversion using the turn factor (M 402 measuring unit). DC voltage is produced using a rectifier attachment. Voltage measurement is then done using a separate measuring resistor and the M 401 measuring unit.



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Output voltage 0 ... 75 kV_{rms}, with

2 transformers symmetrically

to earth max. 150 kV_{rms}

Operating cycle 1 kVA; unlimited 2 kVA; 20 min.

4 kVA; 1 min.

Short-circuit current max. 50 mA (1 min.)

Nominal current 13 mA

Test load ca. 1000 pF max. 30 min.

DC voltage testing max. 80 kV at 4 mA

nominal current (with optional T 22/121 rectifier attachment)

Power supply 220/240 V ± 10 %; 50/60 Hz

Dimensions Control unit T 22/124

551 x 255 x 380 mm

(19"-housing)

(approx. 21¾"x10"x15") SF₆ gas transformer0 T 22/12 diameter 420 mm(approx.16½")

height 560 mm (approx. 22")

Weight Control unit T 22/124

approx. 19 kg (42 lbs) SF₆ gas transformer T22/12 approx. 29 kg (64 lbs)

Scope of delivery

- Control unit
- Transformer
- LV and HV cable set

Option

▶ 80 kV DC voltage testing