

# Breakdown voltage tester

## Model RDT3



Model RDT3-C2

## System description

- Suitable for enamelled wire diameters from 0.025 to 8 mm and strip
- Suitable for insulating materials like tapes, films, narrow strip, flexible and rigid tubing, sleeving etc.
- High voltage transformer rated power 1000 VA
- Digital voltmeter 5 digits, resolution 1V, with two pre-selectable voltages for timed and double-timed test
- Suitable to determination of temperature index test
- Digital timer with pre-selection from 0.2 sec up to 9,999 h
- Double safety device applied on the cell door
- Testing voltages up to 50Kv
- Test chamber suitable for test at environment temperature dimensions: d 470 x h 340 x w 800 mm
- Three test methods: Automatic, timed or temperature index
- Supplied with one electrode for round wire diameter 0.1 – 2.5 mm and one with steel balls for wire diameter >2.5 mm. Others optional.

## Specifications

Model	RDT3-C2
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<b>Dimensions</b>	
Dimensions (WxDxH)	760x1160x1450 mm
Weight	175 kg / 385 lb
<b>Power supply</b>	
Volt	230 V
Hertz	50/60 Single phase
Volt-amperes	1000
Test voltages variants	V20: 0 – 4 kV and 0 – 20 kV V30: 0 – 6 kV and 0 – 30 kV V50: 0 – 10 kV and 0 – 50 kV
<b>Electrodes options</b>	
TF1	Opposing cylinders 51 mm (2") in diameter, 25 mm (1") thick with edges rounded to 6.44 mm (0.25") radius
TF2	Opposing cylinders 25 mm (1") in diameter, 25 mm (1") thick with edges rounded to 3.2 mm (0.125") radius
TF3	Opposing cylinder rods 6.4 mm (0.25") in diameter, with edges rounded to 0.8 mm (0.0313") radius
TF4	Flat plates 6.4 mm (0.25") thick and 108 mm (4.25") wide with edges square and ends rounded to 3.2 mm (0.125") radius
TF5	Hemispherical electrodes 12.7 mm (0.5") in diameter
TF6	Opposing cylinders: the lower one 75 mm (3") in diameter, 15 mm (0.6") thick; the upper one 25 mm (1") in diameter, 25 mm (1") thick; with edges of both rounded to 3 mm (0.12") radius
PC	PC control unit for data acquisition and data management with print out of single values, minimum, maximum, average and standard deviation.
E0	Electrode suitable for wire diameter <0.10 mm (38AWG), complete set of weights
EHT4	Sample holder for wire >2.5mm with steel balls. One per sample.
TWM	Twist specimen fabricator, complete of loading weights and digital twist counter
<b>Standards</b>	
IEC	60851-5.4
IEC	172
DIN	
NEMA	MW 1000
JIS C	3216-5