



## 1. ELECTRICAL SPECIFICATIONS

Accuracy is indicated as  $\pm$  (% readings + no. of digits) at 23°C  $\pm$  5°C, con relative humidity <60%HR

### Continuity of protection conductors <12V/>10AAC – Resistance measure

Range ( $\Omega$ )	Resolution ( $\Omega$ )	Accuracy
0 $\div$ 1.000	0.001	$\pm$ (2.0% rdg + 3dgt)

Output voltage: <12VAC  
 Test current (0 – 0.5 $\Omega$ ): >10AAC  
 Timer: 1 $\div$ 15s (resolution 1s)  
 Measure method: 4 wires

### Continuity of protection conductors <12V/>10AAC – Voltage drop measure

Range (V)	Resolution (V)	Accuracy
0 $\div$ 10.00	0.01	$\pm$ (2.0% rdg + 3dgt)

Output voltage: <12VAC  
 Test current (0 – 0.5 $\Omega$ ): >10AAC  
 Timer: 1 $\div$ 15s (resolution 1s)  
 Measure method: 4 wires

Cable section (mm <sup>2</sup> )	Maximum voltage drop (V) (*)
0.5	3.3
0.7 (0.75)	3.3
1	3.3
1.5	2.6
2.5	1.9
4	1.4
>6	1.0

(\*) Values according to EN60204-1

### Continuity of protection conductors <6V/10-25AAC – Resistance measure

Range ( $\Omega$ )	Resolution ( $\Omega$ )	Accuracy
0 $\div$ 1.000	0.001	$\pm$ (2.0% rdg + 3dgt)

Output voltage: <6VAC  
 Test current (0 – 0.1 $\Omega$ ): 10  $\div$  25AAC  
 Timer: 1 $\div$ 15s (resolution 1s)  
 Measure method: 4 fili

### Insulation Resistance

Range (M $\Omega$ )	Resolution (M $\Omega$ )	Accuracy
0 $\div$ 99.99	0.01	$\pm$ (2.0% rdg + 3dgt)

Open voltage: 500VDC  
 Short circuit current: 5mA max  
 Nominal current: >2.2mA on 230k $\Omega$   
 Timer: 1 $\div$ 60s (resolution 1s)

### Withstanding 1000VAC

Voltage Range (V)	Resolution (V)	Accuracy
0 $\div$ 5000	10	$\pm$ (5.0% rdg + 3dgt)
Current Range (mA)	Resolution (mA)	Accuracy
0 $\div$ 999.9	0.1	$\pm$ (5.0% rdg + 5dgt)

Test Voltage: >1000VAC/50Hz at voltage supply  
 Output power: >500VA  
 Timer: 1s  $\div$  60min (resolution 1s)  
 Trip out current threshold: 0.5  $\div$  100mA  
 Trip out time: <30ms  
 BURN current: 200mA



## Withstanding 4000VAC

Range misura tensione (V)	Resolution (V)	Accuracy
0 ÷ 5000	10	±(5.0% rdg + 3dgt)
Range misura corrente (mA)	Resolution (mA)	Accuracy
0 ÷ 999.9	0.1	±(5.0% rdg + 5dgt)

Test Voltage: >4000VAC/50Hz at voltage supply  
Output power: >50VA  
Timer: 1s ÷ 60min (resolution 1s)  
Trip out current threshold: 0.1 ÷ 9.9mA  
Trip out time: <30ms  
BURN current: 30mA

## Discharging Time on plug (OUT INPUT)

Range (s)	Resolution (s)	Accuracy
0 ÷ 10.0	0.1	±(5.0% rdg + 1DGT)

Max input voltage: 750Vp  
Input resistance OUT: 88MΩ  
Max reference voltage on measure: Un<150V Umax:179V  
151<Un<300V Umax:344V  
Un>300V Umax:596V  
Limit reference voltage: 60V, 120V  
Limit time value OUT: 1s

## Discharging Time on internal circuits (IN INPUT)

Range (s)	Resolution (s)	Accuracy
0 ÷ 10.0	0.1	±(5.0% rdg + 1cifra)

Max input voltage: 750Vp  
Input resistance IN: 88MΩ  
Limit reference voltage: 60V, 120V  
Limit time value IN: 5s

## Leakage current on test socket

Range (mA)	Resolution (mA)	Accuracy
0 ÷ 4.0	0.01	±(3.0% rdg + 3dgt)
4.0 ÷ 50.0	0.1	

Voltage supply: 230V / 50Hz (as instrument power supply)  
Max power DUT: 3700VA (max 16A)  
Zero offset leakage current

## Nominal current on test socket

Range (A)	Resolution (A)	Accuracy
0 ÷ 7.0	0.01	±(2.0% rdg + 2dgt)
7.0 ÷ 16.0	0.1	

Voltage supply: 230V / 50Hz (as instrument power supply)  
Max power DUT: 3700VA (max 16A)  
Zero offset leakage current



## 2. GENERAL SPECIFICATIONS

### POWER SUPPLY:

Mains power supply: 230V- 50Hz  
Nominal current: 3 ÷ 16A

### MECHANICAL FEATURES:

Dimensions: 330 (L) x 410(La) x 180(H) mm  
Weight: about 12kg  
Material: ABS + metal

### MEMORY AND SERIAL INTERFACE

Memory: 350 locations  
Serial interface: RS-232, optoinsulated (9600 baud, 8, 1, N)

### WORKING ENVIRONMENTAL CONDITIONS:

Reference temperature: 23°C ± 5°C  
Working temperature: 0° ÷ 40°C  
Allowed relative humidity: < 80% HR  
Storage temperature: -10 ÷ 60°C  
Storage humidity: < 80% HR

### TEST VERIFIES REFERENCE STANDARDS:

Insulation and Withstanding: EN60439-1  
Continuity test with 10A: EN60439-1, EN60204-1

### GENERAL REFERENCE STANDARDS:

Safety of measuring instruments: EN61010-1 + A2(1997)  
Insulation: class 2 (double insulation)  
Pollution degree: 2  
Overvoltage category: CAT II 265V (to ground)  
Use: internal use; max altitude: 2000m  
EMC: EN61326-1 (1998) + A1 (1999)

**This instrument complies with the requirements of the European Low Voltage Directives 2006/95/EEC (LVD) and EMC 2004/108/EEC**