1. ELECTRICAL SPECIFICATIONS

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

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

Range (Ω)	Resolution (Ω)	Accuracy
0 ÷ 1.000	0.001	±(2.0% rdg + 3dgt)

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

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

Range (V)	Resolution (V)	Accuracy
0 ÷ 10.00	0.01	±(2.0% rdg + 3dgt)

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

Cable section (mm^2)	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 (Ω)	Resolution (Ω)	Accuracy
0 ÷ 1.000	0.001	±(2.0% rdg + 3dgt)

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

Insulation Resistance

Range (MΩ)	Resolution (MΩ)	Accuracy
0 ÷ 99.99	0.01	±(2.0% rdg + 3dgt)

Open voltage: 500VDC
Short circuit current: 5mA max
Nominal current: >2.2mA on 230kΩ
Timer: 1÷60s (resolution 1s)

Withstanding 1000VAC

Voltage Range (V)	Resolution (V)	Accuracy
0 ÷ 5000	10	±(5.0% rdg + 3dgt)
Current Range (mA)	**Resolution (mA)**	**Accuracy**
0 ÷ 999.9	0.1	±(5.0% rdg + 5dgt)

Test Voltage: >1000VAC/50Hz at voltage supply
Output power: >500VA
Timer: 1s ÷ 60min (resolution 1s)
Trip out current threshold: 0.5 ÷ 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 European Directive for CE marking.

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