



1. ELECTRICAL SPECIFICATIONS

Accuracy is indicated as \pm (% readings + no. of digits) at 23°C \pm 5°C, con relative humidity <80%HR

Continuity of protection conductors <12V / >10A AC – Mode RLIM

Range (Ω)	Resolution (Ω)	Accuracy	Overload protection
0.000 \div 9.999	0.001	$\pm(2.0\% \text{ rdg} + 2 \text{ dgt})$	460 Vrms MAX

Open circuit voltage: <12V~
 Test current (0 \div 0.5 Ω including cables): >10A~
 Measure method: 4 wires

Continuity of protection conductors <12V / >10A AC – Mode VDRO (EN60204-1:2006)

Range (Ω)	Resolution (Ω)	Accuracy	Overload protection
0.000 \div 9.999	0.001	$\pm(2.0\% \text{ rdg} + 2 \text{ dgt})$	460 Vrms MAX

ZLoop range: 0.000 \div 9.999 Ω (with IMP57 optional accessory)
 PE selectable section: 0.5 \div 16mm²
 Type of protection device: magnetothermic with Curve B and Curve C selectable
 Nominal current selectable: 6, 10, 16, 20, 25, 32, 50, 63A
 Open circuit voltage: <12V~
 Test current (0 \div 0.5 Ω including cables): >10A~
 Measure method: 4 wires

Insulation Resistance

Range (M Ω)	Resolution (M Ω)	Accuracy	Overload protection
0.00 \div 19.99	0.01	$\pm(2.0\% \text{ rdg} + 2 \text{ dgt})$	460 Vrms MAX
20.0 \div 199.9	0.1		

Test voltage: >500Vdc
 Open circuit voltage: <1.5Un
 Nominal current: >2.17mA @ 230k Ω
 Short circuit current: <3.0mA
 Timer: 10 \div 600s (resolution 1s)

Withstanding 1000V~

Voltage Range (V)	Resolution (V)	Accuracy (*)
10.0 \div 2999	1	$\pm(2.0\% \text{ rdg} + 2 \text{ dgt})$
Current Range (mA)	Resolution (mA)	Accuracy (*)
0.5 \div 499.9	0.1	$\pm(2.0\% \text{ rdg} + 2 \text{ dgt})$

(*) For 100nF \leq Cout \leq 300nF@1000V accuracy is $\pm(10.0\% \text{ rdg} + 5 \text{ dgt})$; for Cout>300nF accuracy is not declared

Test Voltage: >1000V~/50Hz at voltage supply
 Output power: >500VA
 Timer: 3s \div 10min (resolution 1s)
 Trip out current threshold: programmable 0.5 \div 499.9mA
 BURN current: 500mA

Withstanding 2500V~

Voltage Range (V)	Resolution (V)	Accuracy
10.0 \div 2999	1	$\pm(2.0\% \text{ rdg} + 2 \text{ dgt})$
Current Range (mA)	Resolution (mA)	Accuracy
0.5 \div 19.99	0.1	$\pm(2.0\% \text{ rdg} + 2 \text{ dgt})$

(*) For 10nF \leq Cout \leq 30nF@2500V accuracy is $\pm(10.0\% \text{ rdg} + 5 \text{ dgt})$; for Cout>30nF accuracy is not declared

Test Voltage: >2500V~/50Hz at voltage supply
 Output power: >50VA
 Timer: 3s \div 10min (resolution 1s)
 Trip out current threshold: programmable 0.5 \div 19.99mA
 BURN current: 20mA

**Discharging time on plug (EXT INPUT)**

Range (s)	Resolution (s)	Accuracy
0 ÷ 9.9	0.1	±(3.0% rdg + 3 dgt)

Max input voltage:	650Vp
Input resistance OUT:	200MΩ
Max reference voltage on measure:	110 <Urms <170V Upeak:179V 171 <Urms <290V Upeak:325V 290 <Urms <460V Upeak:565V
Limit reference voltage:	60V, 120V
Limit time value OUT:	1s

Discharging time on internal circuits (INT INPUT)

Range (s)	Resolution (s)	Accuracy
0 ÷ 9.9	0.1	±(3.0% rdg + 3 dgt)

Max input voltage:	650Vp
Input resistance OUT:	200MΩ
Max reference voltage on measure:	110 <Urms <170V Upeak:179V 171 <Urms <290V Upeak:325V 290 <Urms <460V Upeak:565V
Limit reference voltage:	60V, 120V
Limit time value OUT:	5s

2. GENERAL SPECIFICATIONS**POWER SUPPLY:**

Mains power supply:	230V – 50Hz – CAT II
Maximum current:	6A
Power supply protection:	T type fuse 8A/250V~ Ir: 1,5kA

MECHANICAL FEATURES:

Dimensions:	330 (L) x 300(La) x 150(H) mm
Weight:	about 9.3kg
Material:	ABS – IP50 protection with open case

MEMORY AND SERIAL INTERFACE

Memory:	999 locations
Serial interface:	RS-232, optoinsulated

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, EN60204-1:2006
Continuity test with 10A:	EN60439-1, EN60204-1:2006
Discharging time:	EN60204-1:2006

GENERAL REFERENCE STANDARDS:

Safety of measuring instruments:	EN61010-1 (2001)
Insulation:	class 2 (double insulation)
Pollution degree:	2
Overvoltage category:	(CONTINUITY, DISCHARGE, MΩ 500V input) CAT III 240V~ to ground ; CAT III 415V~ between inputs
Max altitude of use:	2000m

This instrument complies with the requirements of the European Low Voltage Directives 2006/23/EEC (LVD) and EMC 2005/108/EEC