

RCD testing

Nominal residual current (A, AC)	10 mA, 30 mA, 100 mA, 300 mA, 500 mA, 1000 mA
Test current shape	Sine-wave (AC), pulsed (A)
RCD type	G (non-delayed), S (time-delayed)
Test current starting polarity	0° or 180°
Voltage range	50 V ÷ 264 V (45 Hz ÷ 65 Hz)
Complete measuring range corresponds to EN 61557 requirements.	

Contact voltage

Measuring range (V)	Resolution (V)	Accuracy
0.0 ÷ 19.9	0.1	(-0 % / +15 %) of reading ± 10 digits
20.0 ÷ 99.9	0.1	(-0 % / +15 %) of reading

Test current: max. $0.5 \times I_{\Delta N}$ Limit contact voltage: 25 V, 50 V

Trip-out time

Measuring range (ms)	Resolution (ms)	Accuracy
0 ÷ 300	1	±3 ms

Test current $\frac{1}{2} \times I_{\Delta N}$, $I_{\Delta N}$, $2 \times I_{\Delta N}$, $5 \times I_{\Delta N}$

Trip-out current

Measuring range (I Δ)	Resolution (I Δ)	Accuracy
$0.2 \times I_{\Delta N} \div 1.1 \times I_{\Delta N}$ (AC type)	$0.05 \times I_{\Delta N}$	$\pm 0.1 \times I_{\Delta N}$
$0.2 \times I_{\Delta N} \div 1.5 \times I_{\Delta N}$ (A type, IDN ≥ 30 mA)	$0.05 \times I_{\Delta N}$	$\pm 0.1 \times I_{\Delta N}$
$0.2 \times I_{\Delta N} \div 2.2 \times I_{\Delta N}$ (A type, IDN < 30 mA)	$0.05 \times I_{\Delta N}$	$\pm 0.1 \times I_{\Delta N}$

Fault loop impedance (no disconnecting device or FUSE selected)

Measuring range according to EN61557 is 0.25 Ω ÷ 9.99 k Ω .

Measuring range (Ω)	Resolution (Ω)	Accuracy
0.00 ÷ 9.99	0.01	±(5 % of reading + 5 digits)
10.0 ÷ 99.9	0.1	±(5 % of reading + 5 digits)
100 ÷ 999	1	± 10 % of reading
1.00 k ÷ 9.99 k	10	± 10 % of reading

Test current (at 230 V): 6.5 A (10 ms) Nominal voltage range: 30 V ÷ 500 V (45 Hz ÷ 65 Hz)

Fault loop impedance (RCD selected - no trip out of RCD)

Measuring range according to EN61557 is 0.46 Ω ÷ 9.99 k Ω .

Measuring range (Ω)	Resolution (Ω)	Accuracy
0.00 ÷ 9.99	0.01	±(5 % of reading + 10 digits)
10.0 ÷ 99.9	0.1	±(5 % of reading + 10 digits)
100 ÷ 999	1	± 10 % of reading
1.00 k ÷ 9.99 k	10	± 10 % of reading

Nominal voltage range: 30 V ÷ 500 V (45 Hz ÷ 65 Hz)

Line impedance

Measuring range according to EN61557 is 0.25 Ω ÷ 9.99 k Ω .

Measuring range (Ω)	Resolution (Ω)	Accuracy
0.00 ÷ 9.99	0.01	±(5 % of reading + 5 digits)
10.0 ÷ 99.9	0.1	±(5 % of reading + 5 digits)
100 ÷ 999	1	± 10 % of reading
1.00 k ÷ 9.99 k	10	± 10 % of reading

Test current (at 230 V): 6.5 A (10 ms) Nominal voltage range: 30 V ÷ 500 V (45 Hz ÷ 65 Hz)

Phase rotation

Nominal system voltage range	100 VAC ÷ 550 VAC
Nominal frequency range	14 Hz ÷ 500 Hz
Result displayed	1.2.3 or 3.2.1

TRMS voltage monitor, Frequency

Measuring range	Resolution	Accuracy
0 V ÷ 550 V	1	±(2 % of reading + 2 digits)
10.0 Hz ÷ 499.9 Hz	0.1	±(0.2 % of reading + 1 digit)