

Technical Data

Mains Power Supply

- Connection: according to IEC/EN60320-1; UL498, CSA 22.2
- Mains supply: 90 – 264 V AC, 50/60 Hz or 110 – 350 V DC
- Input power: 250 VA
- Fuse: 2 A / 250 V, type F, not user replaceable

Output Data

- Test voltages
1 V, 8 V, 40 V, 100 V, 250 V AC
3 x (1, 8, 40, 100, 250) $\sqrt{3}$ V AC

Measurement

- Turns ratio measuring range 0,8 – 50 000
- Turns ratio resolution 5 digits
- Typical turns ratio accuracy:

@250 V AC	@100 V AC
0,8 – 999: $\pm 0,03\%$	0,8 – 999: $\pm 0,05\%$
1 000 – 3 999: $\pm 0,05\%$	1 000 – 3 999: $\pm 0,05\%$
4 000 – 14 999: $\pm 0,05\%$	4 000 – 14 999: $\pm 0,1\%$
15 000 – 19 999: $\pm 0,05\%$	15 000 – 19 999: $\pm 0,2\%$
20 000–50 000: $\pm 0,1\%$	20 000–50 000: $\pm 0,25\%$
@40 V AC	@8 V AC
0,8 – 999: $\pm 0,05\%$	0,8 – 999: $\pm 0,05\%$
1 000 – 3 999: $\pm 0,1\%$	1 000 – 3 999: $\pm 0,1\%$
4 000 – 14 999: $\pm 0,2\%$	4 000 – 14 999: $\pm 0,2\%$
15 000 – 19 999: $\pm 0,3\%$	
@1 V AC	
0,8 – 999: $\pm 0,05\%$	
1 000 – 3 999: $\pm 0,1\%$	

- Excitation current range 0 – 2 A
- Excitation current resolution:
0,0000 – 9,9999 mA 0,1 μ A
10,000 – 99,999 mA 1 μ A
100,00 – 999,99 mA 10 μ A
1,0000 – 2,0000 A 100 μ A
- Typical excitation current accuracy $\pm (0,25\% + 500 \mu\text{A})$
- Phase angle range 0 – 360°
- Phase angle resolution 0,01°
- Typical phase angle accuracy $\pm 0,05^\circ$

Display

- LCD screen 20 characters by 4 lines;
- LCD display with backlight, visible in bright sunlight

Interface

- USB (standard)
- RS232 (optional)

Data Storage

- TRT63A can store up to 10 000 test results

Environmental Conditions

- Operating temperature:
-10 °C – + 55 °C / 14 °F – +131 °F
- Storage & transportation:
-40 °C – + 70°C / -40 °F – +158 °F
- Humidity: 5 % – 95 % relative humidity, non condensing