

Technical Details

Supply voltage Un	: 12-125V DC (85%- 110% of U) 24, 115/230 VAC, 400VAC (85-115% Of Un) All AC supplies are galvanically isolated between the supply and the toroid and remote test /reset connections
Frequency range	: 50/60 Hz (AC supplies)
Isolation	: Over-voltage category III
Rated impulse withstand voltage	: 800V (24VAC supplies) 2.5kV (115VAC supplies) 4kV (230VAC, 400VAC supplies) for 1.2/50µsec IEC60664
Power consumption (max)	: 6VA (AC Supplies) 5W (DC Supplies)

Monitored leakage current	: 0 to 30 A (15 – 400Hz) (Through external toroid with 1000:1 ratio & connected to terminals 8 & 9)
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Sensitivity	: 30, 100, 300, 500mA, 1, 3, 5, 10, 20, 30A (user selectable)
Trip level limits	: 80 – 90% of $I_{\Delta n}$
Reset Value	: \approx 85% of tripped level
Time delay	: 0*, 60, 150, 250, 500, 800msec, 1, 2.5, 5, 10 sec (user selectable)

*Actual delay for “0” or “instantaneous” is $<25\text{mS}$ when fault current @ $5 \times I_{\Delta n}$.

Note:

1. For $I_{\Delta n}$ setting of 30mA, the time delay is fixed to 0 (instantaneous) and is not adjustable (ie. any other time delay cannot be selected when 30mA is set).
2. The unit is factory set to 30mA trip and instantaneous delay. Adjustment of these settings can be made if necessary to suit the requirements of the installation. A seal is supplied allowing the user to secure the clear window and hence prevent any unnecessary adjustment of the settings.

Reset time	: \approx 2s (from supply interruption)
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LED indication:	
Power supply present	: Green
Bargraph	: Green x 3 (25, 50 and 75% of actual trip level)
Tripped	: Red

Memory	: Storage of the leakage fault and reset with “Reset” push button
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Toroid connection (8,9)	: to external R-ZCT toroid only (1000:1)
Toroid withstand capacity	: 1kA continuous 5kA for 1.5sec 100kA for 0.05sec
Distance between toroid & relay	: 50 meters (max)

