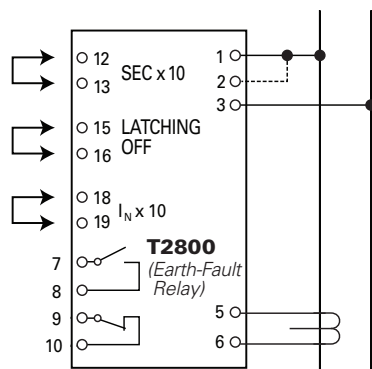


T2800 SERIES

Earth-Fault Relay



Simplified Circuit Diagram



Ordering Information

| ORDERING NUMBER | TERMINALS | | I_N |
|-----------------|-----------|-------|-------|
| | 1-3 | 2-3 | |
| T2800.00 | 230 V | | 5 A |
| T2800.01 | 450 V | 400 V | 5 A |
| T2800.02 | 127 V | 120 V | 5 A |
| T2800.04 | 24V DC+AC | | 5 A |
| T2800.05 | 480 V | 415 V | 5 A |
| T2800.08 | 230 V | | 1 A |

Other combinations and voltages are available on request.

Description

The T2800 Earth Fault Relay is part of the T-Line series with modular units for protection, control and monitoring of generators. The T2800 detects the magnitude of the current and, if this exceeds the preset level ($0.02-2 \times I_N$), the pick-up LED will indicate and the delay timer will be started. After the preset time (0.1-10 sec.) has expired the output relay and the corresponding LED will be activated, provided that the current level was exceeded for the entire delay time. The T2800 has a normally energized output relay. The relay is a latching relay which can be reset or disabled.

Features & Benefits

| FEATURES | BENEFITS |
|------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Accepts high supply voltage variation | Ensures correct operation in spite of voltage supply fluctuations (fulfils marine class requirement) |
| Visual indication of power, pick-up, and output trip | Provides quick and concise status information |
| Direct line-line or line-neutral voltage supply (up to 690 Vac) | Simplifies design and installation. No need for PTs |
| Wide range of combined current and delay settings | Enables versatile use as earth fault relay or standard overcurrent relay. Combining more units offers economic alternative to relays with inverse time response. |
| Galvanic isolated inputs | Protects the unit against high AC voltage and currents from the installation including spikes |
| DIN-rail or screw-mount & adjustment by potentiometers | Easy installation |

Specifications

| | |
|------------------------------|--------------------------------------------------------------------------|
| Trip Level | $0.02-0.2 \times I_N$ or $0.2-2 \times I_N$ |
| Delay | 0.1-1.0 sec. or 1.0-10 sec. |
| Max. Voltage | 660 V |
| Voltage Range | 60-110% |
| Consumption | Voltage 5 VA at U_N Current 0.3 VA at I_N |
| Continuous Current | $2 \times I_N$ |
| Frequency Range | 45-400 Hz |
| Output Relay | Normally energized, latching, resetable |
| Contact Rating | AC: 400 V, 5 A, 2000 VA DC: 150 V, 5 A, 150 W |
| Overall Accuracy | $\pm 5\%$ |
| Repeatability | $\pm 1\%$ |
| Operating Temperature | -20°C to $+70^\circ\text{C}$ |
| Dielectric Test | 2500 V |
| EMC | CE according to EN50081-1, EN50082-1, EN50081-2, EN50082-2 |
| Approvals | Certified by major marine classification societies |
| Burn-in | 50 hours before final test |
| Enclosure Material | Polycarbonate. Flame retardant |
| Weight | 0.5 kg |
| Dimensions | H 70 mm (2.76"); W 100 mm (3.94"); D 115 mm (4.52") |
| Installation | 35 mm DIN rail or 4 mm ($3/16$ ") screws |

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