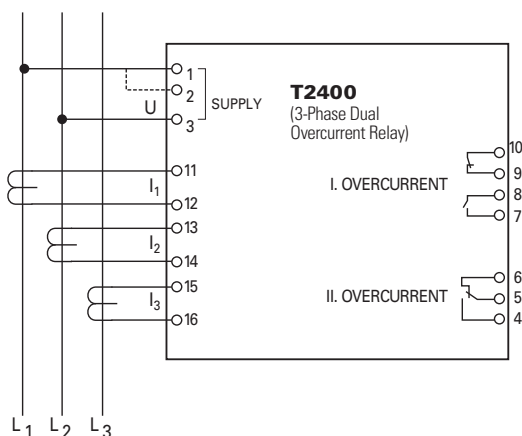


T2400 SERIES

3-Phase Dual Overcurrent Relay



Simplified Circuit Diagram



Ordering Information

| ORDERING NUMBER | TERMINALS | | I _N | FUNCTION |
|-----------------|-----------|-------|----------------|--|
| | 1-3 | 2-3 | | |
| T2400.0010 | 230 V | | 5 A | |
| T2400.0020 | 450 V | 400 V | 5 A | |
| T2400.0030 | 110 V | 100 V | 5 A | |
| T2400.0040 | 450 V | 400 V | 5 A | Latching output on relay 1, 6-60 sec. delay on relay 1 |
| T2400.0050 | 480 V | 415 V | 5 A | |
| T2400.0060 | 450 V | 400 V | 1 A | |
| T2400.0070 | 450 V | 400 V | 5 A | Latching output on relay 1, normally energized relay 1 |
| T2400.0080 | 127 V | 120 V | 5 A | |
| T2400.0090 | 24 Vdc | | 5 A | |

Latching output relays are reset by disconnecting the power supply.
Other supply voltages and combinations are available on request.

Description

The T2400 3-Phase Dual Overcurrent Relay includes two combined overcurrent relays, designed for protection or monitoring of generators and power transmissions. A typical application is to use one of the overcurrent functions to trip the generator circuit breaker, and the other overcurrent function to trip a non-essential consumer.

The T2400 consists of two overcurrent circuits with similar current settings and time delays. Each circuit detects the highest of the 3 input currents and, if this exceeds the preset level (0.5-1.4 x I_N), the corresponding pick-up LED will indicate and the delay timer will be started. After the preset time (3-30 sec.) has expired, the corresponding output relay and LED will be activated, provided that the current level was exceeded for the entire delay time.

Features & Benefits

| FEATURES | BENEFITS |
|--|---|
| Accepts high supply voltage variation | Ensures correct operation in spite of voltage supply fluctuations (fulfills 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. |
| Combining 2 relays in same enclosure | Economic solution for non-essential load tripping, and occupying less space in the switch panel |
| 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 | 0.5-1.4 x I _N |
| Delay | 3-30 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 x I _N |
| Frequency Range | 45-400 Hz |
| Output Relay | Normally de-energized |
| Contact Rating | AC: 400 V, 5 A, 2000 VA; DC: 150 V, 5 A, 150 W |
| Overall Accuracy | ±5% |
| Repeatability | ±1% |
| Operating Temperature | -20°C to +70°C |
| Dielectric Test | 2500 V, 50 Hz |
| 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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