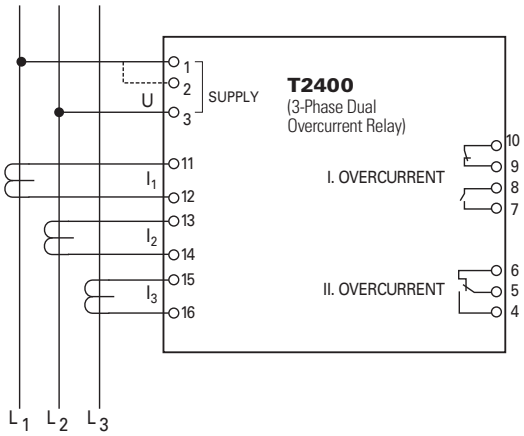
T2400 SERIES

3-Phase Dual Overcurrent Relay

Simplified Circuit Diagram



Ordering Information

ORDERING NUMBER	TERMINALS 1-3	TERMINALS 2-3	I_N	FUNCTION
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