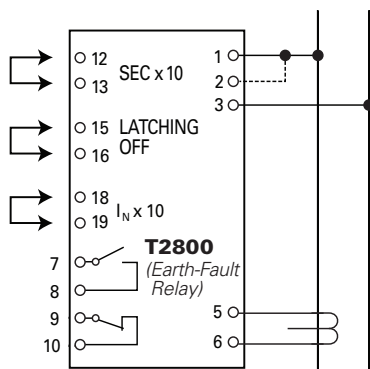


T2800 SERIES

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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