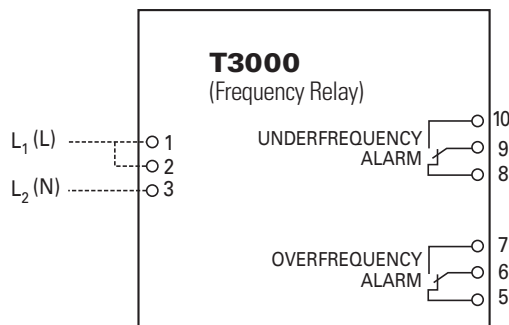


T3000 SERIES

Frequency Relay



Simplified Circuit Diagram



Ordering Information

ORDERING NUMBER	TERMINALS	
	1-3	2-3
T3000.0010	230 V	
T3000.0020	450 V	400 V
T3000.0030	110 V	100 V
T3000.0040	480 V	415 V
T3000.0050	127 V	120 V

Other voltages are available on request.

Description

The T3000 Frequency Relay is designed for frequency monitoring on generators, bus bars or other distribution systems.

The T3000 consists of two circuits, one circuit for over frequency and one for under frequency monitoring. Each circuit has individual settings for frequency levels and time delays. The output relays are normally energized output relays. The output relay for under frequency is activated at frequencies higher than the preset value, while the output relay for over frequency is activated at frequencies lower than the preset value. This means that both output relays are activated at frequencies within the interval between the under and over frequency scale range.

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. Monitoring both underfrequency and overfrequency in same unit, 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

Overfrequency Level	45-65 Hz
Delay	1-10 sec.
Underfrequency Level	45-65 Hz
Delay	1-10 sec.
Max. Voltage	660 V
Voltage Range	70-110%
Consumption	5 VA at U_N
Continuous Current	$2 \times I_N$
Frequency Range	40-70 Hz
Output Relay	Normally energized
Contact Rating	AC: 250 V, 2 A, 250 VA; DC: 60 V, 2 A, 100 W
Overall Accuracy	±3% of highest value
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

AMEYA360

Components Supply Platform

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