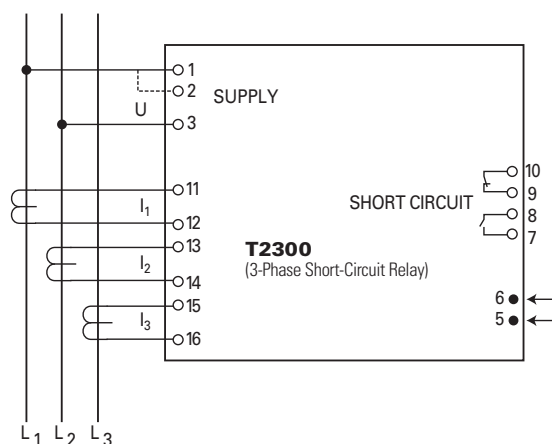


T2300 SERIES

3-Phase Short-Circuit Relay



Simplified Circuit Diagram



Ordering Information

ORDERING NUMBER	TERMINALS		I_N	FUNCTION
	1-3	2-3		
T2300.0100	230 V		5 A	
T2300.0020	450 V	400 V	5 A	
T2300.0030	24 Vdc		5 A	
T2300.0040	24 Vdc		1 A	
T2300.0050	450 V	400 V	5 A	Normally de-energized output
T2300.0060	480 V	415 V	5 A	
T2300.0070	230 V		1 A	

Other supply voltages and combinations are available on request.

Description

The T2300 3 Phase Short-Circuit Relay is designed for protection of generators, power transmissions and consumer's supply against short circuit. The T2300 reacts on a definite delay versus current level.

The T2300 detects the highest of the 3 input currents and, if this exceeds the preset level ($1.0 - 4.0 \times I_N$), the pick-up LED will indicate and the delay timer will be started. After the preset time (0.1-1.0 sec.) has expired, the normally energized output relay will de-energize and the relay LED will be activated, provided that the current level was exceeded for the entire delay time. The T2300 has a normally energized output relay.

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.
Built-in capacitor cack-up supply	Ensures correct operation in spite of drop in the supply voltage
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	$1.0 - 4.0 \times I_N$
Delay	0.1-1.0 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 de-energized, latching, resettable
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

Mouser Electronics

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