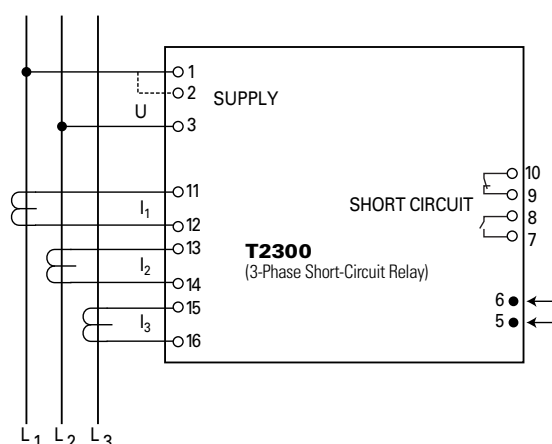


## T2300 SERIES

### 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
<b>Accepts high supply voltage variation</b>	Ensures correct operation in spite of voltage supply fluctuations (fulfills marine class requirement)
<b>Visual indication of power, pick-up, and output trip</b>	Provides quick and concise status information
<b>Direct line-line or line-neutral voltage supply (up to 690 Vac)</b>	Simplifies design and installation. No need for PTs.
<b>Built-in capacitor back-up supply</b>	Ensures correct operation in spite of drop in the supply voltage
<b>Galvanic isolated inputs</b>	Protects the unit against high AC voltage and currents from the installation including spikes
<b>DIN-rail or screw-mount &amp; adjustment by potentiometers</b>	Easy installation

### Specifications

<b>Trip Level</b>	$1.0 - 4.0 \times I_N$
<b>Delay</b>	0.1-1.0 sec.
<b>Max. Voltage</b>	660 V
<b>Voltage Range</b>	60-110%
<b>Consumption</b>	Voltage 5 VA at $U_N$ Current 0.3 VA at $I_N$
<b>Continuous Current</b>	$2 \times I_N$
<b>Frequency Range</b>	45-400 Hz
<b>Output Relay</b>	Normally de-energized, latching, resettable
<b>Contact Rating</b>	AC: 400 V, 5 A, 2000 VA DC: 150 V, 5 A, 150 W
<b>Overall Accuracy</b>	$\pm 5\%$
<b>Repeatability</b>	$\pm 1\%$
<b>Operating Temperature</b>	$-20^\circ\text{C}$ to $+70^\circ\text{C}$
<b>Dielectric Test</b>	2500 V, 50 Hz
<b>EMC</b>	CE according to EN50081-1, EN50082-1, EN50081-2, EN50082-2
<b>Approvals</b>	Certified by major marine classification societies
<b>Burn-in</b>	50 hours before final test
<b>Enclosure Material</b>	Polycarbonate. Flame retardant
<b>Weight</b>	0.5 kg
<b>Dimensions</b>	<b>H</b> 70 mm (2.76"); <b>W</b> 100 mm (3.94"); <b>D</b> 115 mm (4.52")
<b>Installation</b>	35 mm DIN rail or 4 mm (3/16") screws

# Mouser Electronics

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