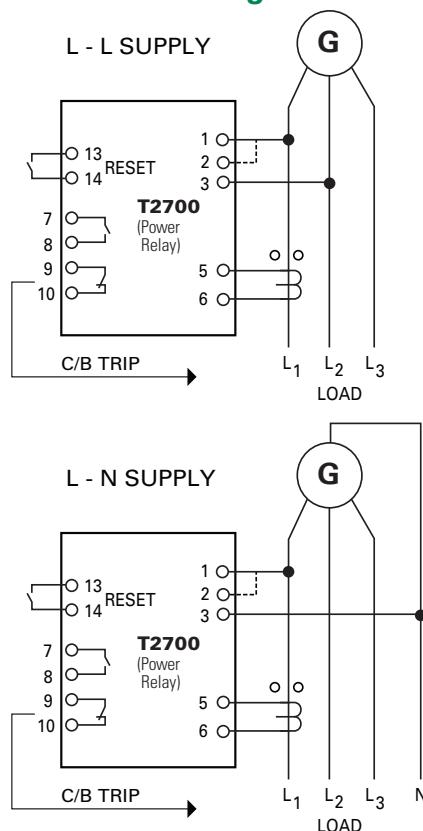


# T2700 SERIES

## Power Relay



### Simplified Circuit Diagram



### Description

The T2700 Power Relay is intended for detection of power levels for protection, control or monitoring purposes. The T2700 will protect a generator from excessive active loads [kW].

The T2700 calculates  $I \times \cos \phi$ , representing the active power. If the active power exceeds the preset level (15-150%), the pick-up LED will indicate this and the delay timer will be started. After the preset time (2-20 sec.) has expired, the output relay and LED will be activated, provided that the active power 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.
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

<b>Trip Level</b>	15-150% $I_N$
<b>Delay</b>	2-20 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, 1250 VA; DC: 150 V, 5 A, 120 W
<b>Overall Accuracy</b>	±5%
<b>Repeatability</b>	±1%
<b>Operating Temperature</b>	-20°C to +70°C
<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

### Ordering Information

ORDERING NUMBER	TERMINALS		$I_N$	SUPPLY	FUNCTION
	1-3	2-3			
T2700.00	230 V		5 A	L-N	
T2700.02	450 V	400 V	5 A	L-L	
T2700.03	230 V	400 V	5 A	L-L	
T2700.04	110 V	100 V	5 A	L-L	Normally energized output
T2700.08	127 V	120 V	5 A	L-N	

Other supply voltages and combinations are available on request.

# Mouser Electronics

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