

### T1 Series Time Relay



- State Indicator LEDs for Running Modes
- 24..300 VAC/DC Operating Voltage Interval
- Can be Set to 1s..60s
- Can be Set to 1s..100s

### T1 Series Multi-mode Time Relay



- State Indicator LEDs for Running Modes
- 24..300 VAC/DC Operating Voltage Interval
- Durations like T-on and T-off can be set independent of each other
- While one of the T-on or T-off can be set as seconds and the other can be set as hours or days.

### T1 Series Left-Right Time Relay



- State Indicator LEDs for Running Modes
- 24..300 VAC/DC Operating Voltage Interval
- Durations like T-on and T-off can be set independent of each other
- While one of the T-on or T-off can be set as seconds and the other can be set as hours or days.
- 2 Contact Exits

### T1 Series Accurate Setting Time Relay



- State Indicator LEDs for Running Modes
- 24..300 VAC/DC Operating Voltage Interval
- T time can be set from 0 to 2559s in 1 second intervals.
- Ability to Adjust Time in 1 second Intervals According to Process Need

### T1 Series Star-Delta Time Relay



- State Indicator LEDs for Running Modes
- 24..300 VAC/DC Operating Voltage Interval
- 2 Contact Exits



Protection - Control Group Relays

**Klemsan®**

LEADER AT HOME, AMBITIONS WORLDWIDE

## Time Relays

- They are designed to perform control operation within the desired operation time interval.
- Pull and Release time parameters are used with different characteristics according to the system need, with delay/no delay, trigger or control entry.
- It is also preferred to prevent the problems that will arise during the transition from star connection to delta connection in high power electric motor starts.

## Reasons to Choose Klemsan Protection - Control Group Relays

- To protect the electric motors against the problems coming from the main power.
  - Change of phase order, absence of phase, PTC overheating or protect your system from situations where feed voltage is not enough.



P1 Series Motor Protection Relays



- Phase Absence, Phase Order, Asymmetry and PTC Protection
- Connection Options With/Without Neutral
- State Indicator LEDs for Errors and Running Modes
- Fast Observation of Problems Without Measurements Through Error State LED Indicators
- The Product that Covers Least Area in Panels - 17 mm<sup>2</sup>

P1-SU Series Motor Protection Relays



- Phase Absence, Phase Order, Asymmetry
- State Indicator LEDs for Errors and Running Modes
- Form A and Form C Relay Type
- 40% Asymmetry Feature
- Competitive Price

F1 Series Frequency Protection Relays



- Frequency protection relays protects the system it is connected to against the frequency changes of the power main.
- If the frequency goes outside the desired limits, the system is deactivated after the set delay time.
- Adjustable Frequency Protection
- Deactivates the system when the Set Frequency interval is exceeded.

Photocell Relay



- It is preferred in places where system control is desired to be made with light intensity.
- Measuring the Light Intensity With Photocell Eye
- On-Off Threshold Value Adjustable Between 1-20 Lux
- Adjustable Pull and Release Delays

C1 Series Protection Relays



- They are used for the purpose of protecting the electric motors against the problems coming from the power main.
- Adjustable high/low voltage
- Fixed asymmetry
- Adjustable Voltage Protection
- Ability to Make Grounded/Non-Grounded Connection
- Adjustable Asymmetry
- Phase Order, Phase Absence Control

V1 Series Voltage Protection Relays



- They are used for the purpose of protecting the electric motors against the problems coming from the power main.
- Adjustable high/low voltage
- Fixed asymmetry
- Adjustable high/low voltage protection
- Phase order protection
- Connection Options With/Without Neutral
- State Indicator LEDs for Errors and Running Modes

CPR 16 Current Protection Relay



- It enables the system to be protected by the equipment in places where current limitation is desired, by pulling the relay when the set current level is exceeded.
- 1..16A. AC Adjustable Current Protection
- Delay Time 0,1..10 sec
- Direct Connection Without Current Transformer for up to 16 A

Liquid Level Control Relay



- It is used for the liquid level control of the vessels in industrial plants.
- Tanks, industrial tanks, oil tanks, water tanks, fuel tanks and artesian wells pump motors are controlled through liquid level relay.
- Adjustable Delay Time 0,1..10 sec
- Controlling pump motors in places like industrial tanks, oil tanks, water tanks etc.