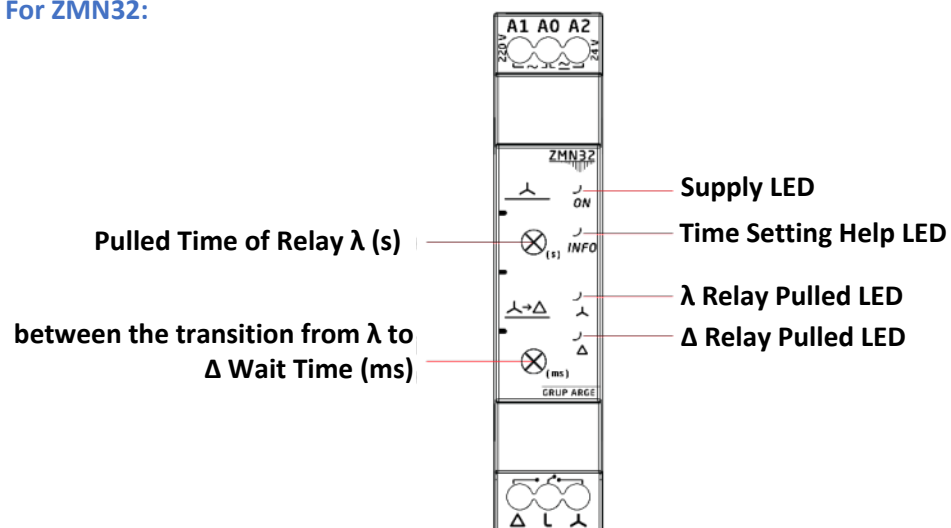


## LED Descriptions:

## For ZMN32:



## LED Descriptions:

	ON	It indicates that energy is present. It also lights up when the potentiometer changes.
	INFO	When the potentiometer is adjusted, if the time value is set correctly, it lights up, if it remains in the unstable area, it turns off.
	$\lambda$ / $\Delta$	It lights up when the relay is pulled and turns off when it is not pulled.

Table:1

- \* Flasher
- \* Lighting

## Technical Features:

Operating Frequency	50 / 60 Hz.
Time Range	Y-U:20-600ms Y:0.1-60s
Relay Output	2N/O, 5A, 1250 VA
Adjustment Type	Potentiometer
Indicator	4 pieces LED
Ambient Temperature	-5°C ; +50°C
Protection Class	IP20
Connection	DIN rail mounting

Table:2

## Use of the Device:

## ZMN32 Time Relay;

Upon energizing the device, the star relay pulls and the star LED lights up. It remains in this position for the set 0.1-60s Star Tone time. At the end of the time, the star relay releases and the star LED turns off. It starts counting the set time for the transition from star to triangle in the set range of 20-600ms. During this time both relays are released. At the end of the time, the Triangle relay pulls and the triangle LED turns on. The triangle relay remains pulled until the power is cut off. Times set with potentiometers can be affected by change until the relay controlled by the set time changes state. After changing the relay position, it is not affected by the time change.

ZMN32 models have info LED feature. The info LED helps to set the time. IF the potentiometer that sets the star to triangle transition time is in the critical area when the power is first energized, the info LED will turn on and off until this potentiometer changes. When there is a change in the potentiometer, if the set potentiometer value is not in the critical area, the LED turns on, if it is in the critical area, the LED turns off.

Product Feature	ZMN32
Time Range	Y-U:20-600ms Y:0.1-60s
Star-Triangle	✓
Contact Output	2N/O, 5A, 1250 VA
24 V AC/DC	✓
220 V AC	✓
DIN I Box	✓

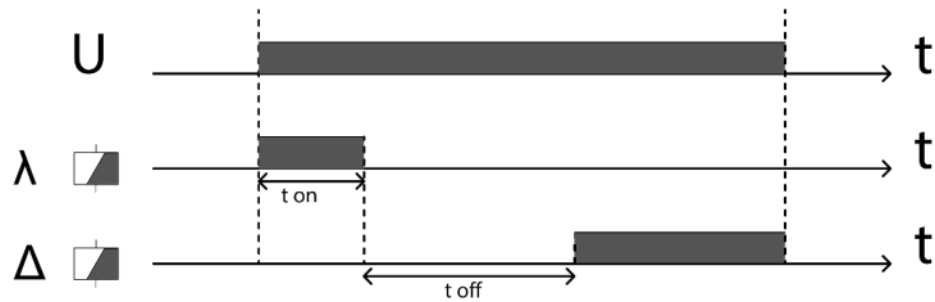
Table:3



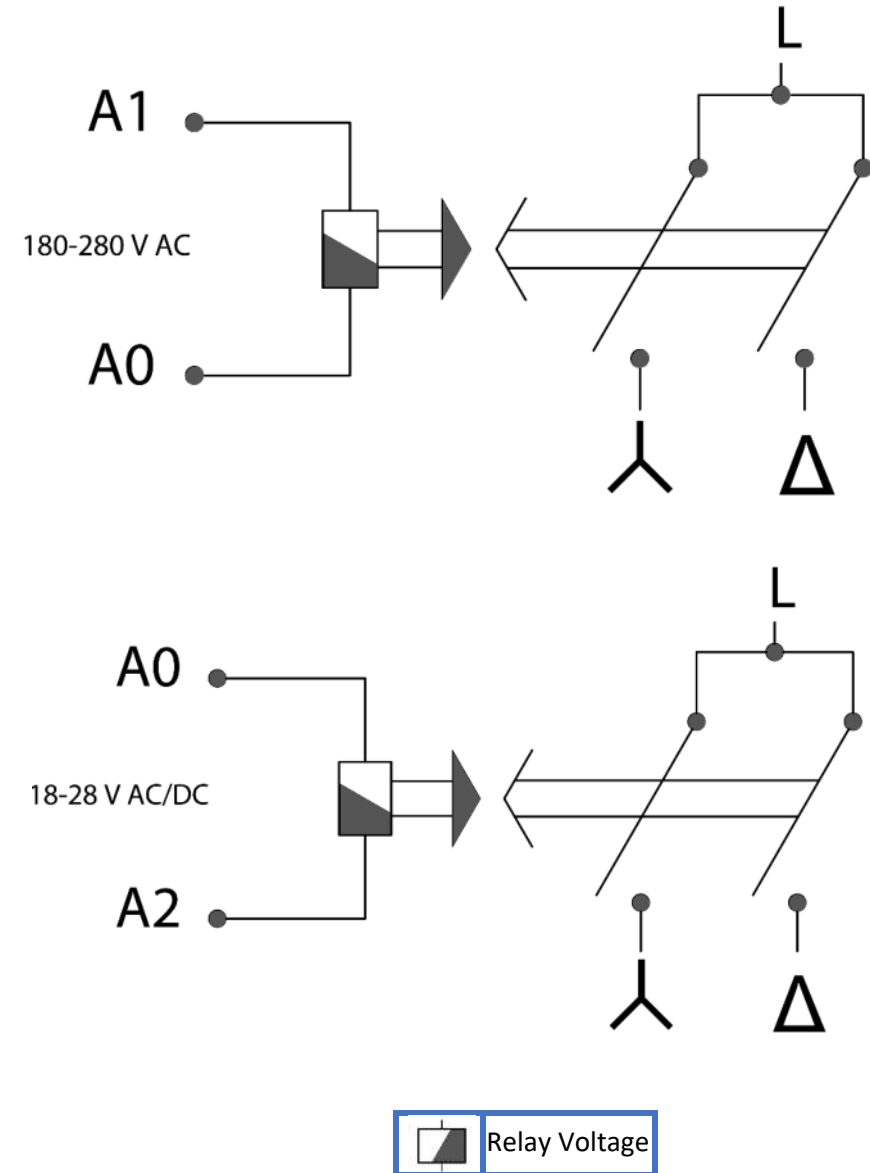
## Time Account:

There are 2 potentiometers on the product for time setting. One of them sets the draw time of the Star Relay, while the other sets the transition time from the star to the triangle. Star Relay's pulled time can be adjusted between 0.1-60 seconds with the related potentiometer. Star to triangle transition time can be adjusted between 20-600ms with the related potentiometer.

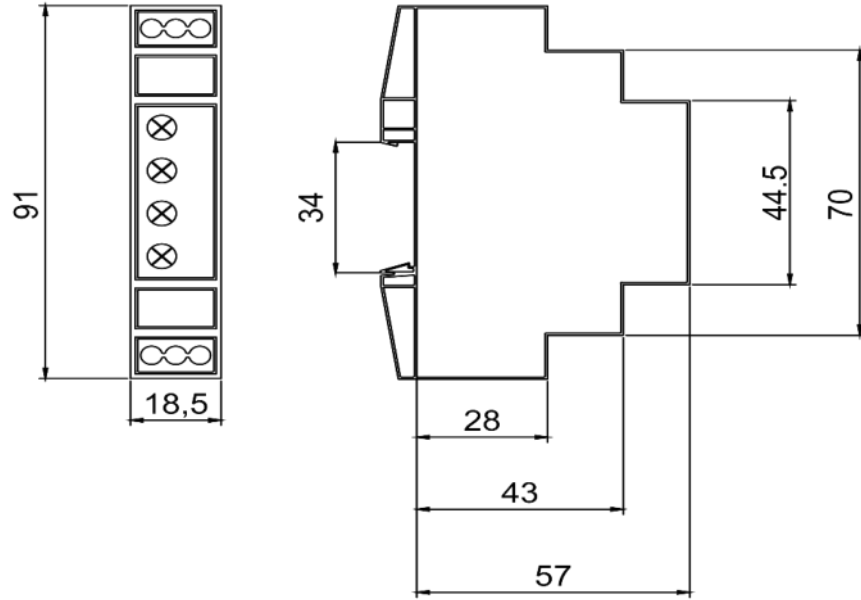
## Function Diagram:



## Connection Diagram:

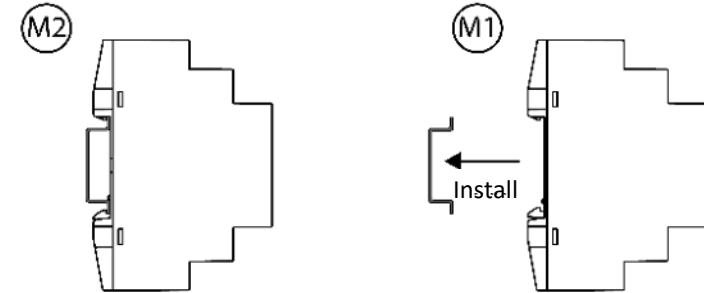


Product Size(mm):



Product Installation:

### Time Relay Installation



### Time Relay Disassembly

