

ZP-OP2

1Ø UNDER AND OVER VOLTAGE WITH ADJUSTABLE TIME DELAY

ZP-OP2 is a digital electronic instrument designed for AC voltage monitoring and protection in single phase system. Used in application such as under and over voltage.

When the measured voltage moves outside the set-point limit, the relay will de-energize after the selected time delay (Off delay).

The relay will automatically reset to energize when the input voltage is raised past the set-point plus the hysteresis value and the adjustable delay period starts.

At the end of timed period the relay will automatically energize again. The time setting adjustment range is 0 to 15 min.

Should any phase fail, the output relay will de-energize.

The ZP-OP2 operates automatically and shut down your motor before any damage is done.

An illuminated LED indicates of actual fault that cause the trip and display "ON" indicates when the relay is energized. The last fault can be checked by pressing "▲" and the LED will show the fault condition. The case can be mounted on a DIN rail 35mm and adapter plate is available for wall mounting



System Parameter Setting:

- Press "SET" key the LED will indicate the first system parameter (ie.OV), this means the controller goes to modify phase. after that, each time press the "SET" key, the controller goes to modify the next parameter.
- After entering the modifying phase, use "▲" key to increase the value by one unit, respectively.
- Use "SET" key to end current parameter setting, and move to the next parameter. After four system parameters, the procedure of the system parameter setting is ended. At this time the display show "On".

System Parameter Table:

No	LED	Description	Range	Requirement	Default
1	OV	Set Over Voltage	10 to 20%	10 to 25%	12%
2	UV	Set Under Voltage	2 to 20%	2 to 25%	12%
3	T.Off	Time Delay Off	0 to 5 sec.		2 sec.
4	T.On	Time Delay On	0 to 15 min.		0 min.

Specification

Feature

Approved standard	: CE Mark
Power consumption	: 1.2VA
Input voltage	: 220,230 or 240VAC 1Ø (Selectable)
System frequency	: 50/60 Hz
Accuracy	: ± 1% of normal voltage
Display	: 7-segment Red LED Letter 0.36"

Range

Over voltage(OV)	: Adjustable from 10%-20% (Requirement 10-25%)
Under voltage(UV)	: Adjustable from 2%-20% (Requirement 2-25%)
Differential(Hysteresis)	: preset at 1%

Time

Delay off	: UV Adjustable from 0-5 sec.
	: OV preset at 2 sec.
Delay on	: Adjustable from 0-15 min.

Relay output

Output type	: 2-pole change over (DPDT)
Contact rating	: 5A at 250VAC
Operations	: Mechanical : 2 x 10 ⁵ times
	: Electrical : 2 x 10 ⁵ times
Relay reset	: Automatic

Environmental

Operating temperature	: -10°C to +55°C
Storage temperature	: -10°C to +85°C
Ambient humidity	: Max 85%RH

Enclosure

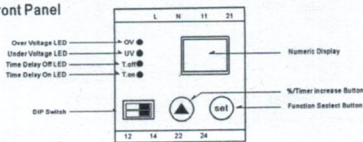
Mounting	: DIN rail 35 mm
Housing	: ABS
Protection class	: IP20
Wire fixing	: Screw terminal block (3.5mm ² self lifting)
Indicator	: LED 3mm
Dimension in mm	: 56 x 70 x 107
Weight	: 275g



The product should not be dispose of a household refuse.

Made in China

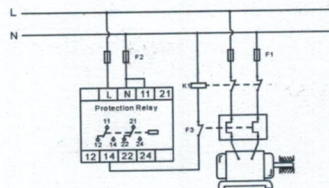
Operation Front Panel



Binary for select voltage with Dip switch

DIP Switch	Voltage
1 On 2 Off	220VAC
1 Off 2 On	230VAC
1 On 2 On	240VAC

Wiring Diagram



K1 = Contactor
F1 = Main fuse
F2 = 2 Amp fast acting fuses recommended for safety (Not required)
F3 = Overload relay

Dimension in mm:

