## VERITEK

## VOLTAGE / FREQUENCY RELAY



VIPS VFT-02

## FEATURES

(1) Configurable for 3 \& 1 Phase System
(2) Individual Faults can be deactivated as per system requirement
(3) Programmable Delay \& Hysteresis
(4) Auto / Manual Reset option
(5) Consistent reliability with high accuracy
(6) 3 Digit Bright Display to indicate voltage \& frequency (7) LED Indication for healthy / faulty status

## PARAMETER DISPLAYED

$\checkmark$ RN Volts
$\checkmark$ YN Volts
$\checkmark$ BN Volts
$\checkmark \mathrm{Hz}$
$\checkmark$ Scroll Time 5 sec.

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## (1) Under / Over Voltage

(2) Under / Over Frequency
(3) Voltage Asymmetry / Unbalance
(4) Phase Reversal
(5) Phase Loss
(6) Power ON Delay

## MECHANICAL DIMENSION



Side View


Front View

## PROGRAMMING

|  | $\oplus$ | To enter into Select Phase |
| :---: | :---: | :--- |
|  | $\Delta / \nabla$ | To change phase 3 or 1 |


| - 0 | P | To enter into Over Voltage |
| :---: | :---: | :---: |
| U5E/ $\quad 0 F F$ | $\Delta / \nabla$ | To Select Use / Off |
| UPL | $\Delta / \nabla$ | To change value of over voltage |


| u-ib | P | To enter into Under Voltage |
| :---: | :---: | :---: |
| $\square 5 E / \square F F$ | $\Delta / \nabla$ | To Select Use / Off |
| WPL | $\triangle / \nabla$ | To change value of under voltage |


| 8-5 | P | To enter into Asymmetry Voltage |
| :---: | :---: | :---: |
| USE/ $\square F F$ | $\Delta / \nabla$ | To Select Use / Off |
| URL | - / | To change value of asymmetry voltage |


| tと, | P | To enter into Trip Time |
| :---: | :---: | :---: |
|  | - / | To change value of asymmetry (0.2-99 sec) |


|  | $巴$ | To enter into Hysteresis |
| :---: | :---: | :--- |
| $H 55$ | $\Delta / \nabla$ | To change value of hysteresis $(0.50 \mathrm{~V})$ |


| PHr | P | To enter into Phase Reversal (3¢ only) |
| :---: | :---: | :---: |
| U5E/ 0 FF | - / | To select Use / Off |
| VA |  |  |
| PHF | P | To enter into Phase Failure (3¢ only) |
| USE/ $0 F F$ | - / | To select Use / Off |


| $u-F$ | P | To enter into Under Frequency |
| :---: | :---: | :---: |
| U5E/ $\quad 8 F$ | $\triangle / \nabla$ | To Select Use / Off |
| URL | - / | To change value of under frequency |


| $0-F$ | P | To enter into Over Frequency |
| :---: | :---: | :---: |
| U5E/BFF | - / | To Select Use / Off |
| - 4 L | - / $\nabla^{\text {a }}$ | To change value of over frequency |


|  | P | To enter into Auto Reset Time (only for auto Tripping) |
| :---: | :---: | :---: |
|  | $\Delta / \nabla$ | To change value of auto reset time (0-999 sec) |

** Connect Fuse $=0.25 \mathrm{~A}$
PROGRAMMING MENU

| PHR | Phas | U-F | Under Frequency |
| :---: | :---: | :---: | :---: |
| 0-4 | Over Voltage | $0-F$ | Over Frequency |
| -4 | Under Voltage | LEF | Tripping Time |
| 8-5 | Asymmetry Voltage | COn | Selection Trip Type |
| CELII | Trip Time (asymmetry) | Si8n | Manual Tripping |
| H45 | Hysteresis | Rut | Auto Tripping |
| PHr | Phase Reversal (3¢0 Only) | \%-E | Auto Reset Time (auto trip only) |
| PHF | Phase Failure ( $3 ¢ 0$ Only | POd | Power On Delay |

## SPECIFICATION

## Aux. Supply

3 Phase 4 Wire / 1 Phase System 90-270 VAC/DC, $50 / 60 \mathrm{~Hz}$

## Burden : < 3 VA

Delay $\quad: 0.2 \mathrm{Sec}$. to 99 Sec .
Relay Contacts : 2 Potential Free Contact (NO, C \& NC) (De-Energise on Trip)

Contact Rating : 5 Amps / 230 VAC / 28 VDC
Set Point : Voltage : 180-300 V Hysteresis : 0-50 V Voltage Asymmetry : 0-50 V Hz. : 45-65 Hz
Temp : $-20^{\circ} \mathrm{C}$ to $+55^{\circ} \mathrm{C}$
Humidity : < $95 \%$ RH (non condensing)
Dimension : $90 \times 45 \times 75 \mathrm{~mm}(\mathrm{~L} \times \mathrm{B} \times \mathrm{H})$
Mounting : Din ( 35 mm Rail) $/ 2 \times \mathrm{m} 4$ Screw

## Weight

 200 gms
## $\triangle$ SAFETY PRECAUTIONS:

All safety related codifications, symbols and instructions that appear in this operating manual or on the equipment must be strictly followed to ensure the safety of the operating personnel as well as the instrument.

If the equipment is not used in a manner specified by the manufacturer it might impair the protection provided by the equipment.

If there is physical damage to the unit then do not use it.

Read complete instruction prior to installation and operation of the unit.

WIRING GUIDELINES:

## 4. Warning

1) To Prevent the risk of electric shock power supply to the equipment must be kept OFF while doing the wiring arrangement.
2) Wiring shall be done strictly according to the terminal layout with shortest connection. Conform that all connection are correct.

## $\triangle$ CAUTION:



1) To ensure the safe operation of unit, check the wiring and connections
