
features

- Under Voltage, Over Voltage, Phase and Neutral loss detection
- Adjustable over and under volition
- Adjustable operate time and trip time delay
- DPDT Relay Output (5A Resistive)

DPECIFICATIONS
FUNCTION
Voltage and Phase controls
$1 \varnothing-2$ wire, $3 \varnothing-4$ wire
AUXILIARY
Nominal Supply (Un)
OPERATING RANGE
127-288VAC(L-N)
FREQUENCYRANGE
48-63Hz
VARATING
VAVA
RESET
TRIPSETTING
Under Voltage : 55 to $95 \%$ of Un
Over Voltage $\quad 127$ to 219 V AC(L-N)
Over Voltage $\quad \begin{aligned} & : 105 \text { to } 125 \% \text { of }\left(\begin{array}{l}\text { U } \\ \\ 242 \text { to } 288 V ~ A C(L-N) ~\end{array}\right)\end{aligned}$
Phase asymmetry : $>10 \%$
$\begin{aligned} & \text { Phase asymmetry : }>10 \% \\ & \text { Setting accuracy } \\ &: \pm 5 \% \text { of full scale ( Trip) } \\ & \pm 10 \% \text { of full scale (Time) }\end{aligned}$
TIME DELAY
Power ONDelay
$\pm 10 \%$ of ful
For 0 setting
$:<4000 \mathrm{msec}$
$: 0$
Trip Time Delay $\begin{array}{ll}:<-15 \mathrm{sec} \\ \text { For } \\ 0 & 0-100\end{array}$
Recovery Time Deiay: $5 \mathrm{Sec} . \pm 200 \mathrm{~ms}$
For L1/ Neutral loss Trip Delay: $<200 \mathrm{~ms}$
For Phase Sequence Trip Delay: $<250 \mathrm{~m}$

HYSTERISIS
$7 V \pm 2 \mathrm{~V}$ of trip Setting
OUTPUT SPECIFICATION
RELAY RATING 2 C/O(DPDT)
5A(Res)@250V AC/28VDC
LEDINDICATION

- Green :Power ON Blink :L2/L3Phase Loss - OV :Over Voltage - UV - Blink : Phase Reverse ENVIRONMENTAL : Phase asymmetry Temperature : Operating: Humidity Storage : $-25^{\circ} \mathrm{C}$ to $70^{\circ} \mathrm{C}$ MECHANICALSPECIFICA SPECIFICATION Dimension : $35 \times 90 \times 60 \mathrm{~m}$ Enclosure: UL94VO Screw tightening torque : $0.5 \mathrm{~N}-\mathrm{M}$ Degree of Protectio
IP 20 for Terminal IP 40 for Enclos Tlosure
forFaceplate
WEIGHT
I. SAFETY PRECAUTIONS

All safety related codifications, symbols and instructions that appear in this operating manual or on the equipment moprating personnel as well as the instrument.
If there is physical damage to the unit then do
not use it. Read complete instructions prior to

## WIRING GUIDELINES

## \ 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 tothe terminal layout. Confirm that all connections are correct.
4 CAUTION :
3. To ensure the safe operate of unit check wiring
connection
4. It is recomm. to test the unit period to satisfy
resolutions.


OPERATING MODES
Product operates in single phase as well as
three phase mode.
A) Single Phase Mode

Connect R-Phase at L1, P and Neutral at $N$ 3 connections are kept open. In single phase mode device monitors only L1 phase for OV and UV condition.

B) Three Phase Mode :

Connect three phase at $\mathrm{L} 1, \mathrm{~L} 2, \mathrm{~L} 3$ and
Neutral at N terminal. Keep ' P ' terminal open. Three Phase Application

(Specifications subject to change as development is a
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continuous process.)
Selec Controls P
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