

TECHNICAL SPECIFICATION
FEATURES:

| Protection Available |  |
| :--- | :--- |
| - Over Voltage | - Asymmetry |
| - Under Voltage | - Phase Loss |
| - Over Frequency | - Phase Sequence |

- Under Frequency

4 digit bright LED display, Auto/ Manual/ ZVR Reset Option Network Selection 3ø-3W/3ø-4W/1ø-2W
Time parameter: Power on delay, Trip delay
Recovery time ( Auto Reset)
INPUT SPECIFICATION:

| Direct Voltage AC | 50 to $300 \mathrm{VAC}(\mathrm{L}-\mathrm{N}) 3 \varnothing-4 \mathrm{~W} / 1 \varnothing-2 \mathrm{~W}$ <br> 85 to 520 V AC $(\mathrm{L}-\mathrm{L}) 3 \varnothing-3 \mathrm{~W}$ |
| :--- | :--- |
| Frequency | 45.0 Hz to 65.0 Hz |
| Resolution | 0.1 Volt |
| Accuracy | Class 0.5 |
| DISPLAY AND KEY: |  |
| Display | 4 digit, 1line, 7 seg, $0.8^{\prime \prime}$ RED LED |
| Keys | SET/ENT, INC, DEC/RST |

GENERAL SPECIFICATION

| Dimension (mm) |
| :--- |
| Panel Cutout |

Trip Setting
96 (H) $\times 96$ (W) $\times 42$ (D) mm

## 92 (H) $\times 92$ (W) mm

Under Voltage : 85-520V AC 3ø-3W $50-300 \mathrm{~V}$ AC $3 \varnothing-4 \mathrm{~W} / 1 \varnothing-2 \mathrm{~W}$ age : $85-550 \mathrm{~V}$ AC $3 \emptyset-3 \mathrm{~W}$ $50-330 \mathrm{~V}$ AC $3 ø 4 \mathrm{~W} / 102 \mathrm{~W}$ Under Frequency : 45.0 Hz To 65.0 Hz Over Frequency: 45.0 Hz To 65.0 Hz Phase Asymmetry : 2-30\%

Time Parameter
Power ON Delay Time : 0 To 99 Sec. Trip delay Time : 0 To 999 Sec. Recovery Time : 0 To 99 Sec.

## ACCURACY

Class 1.0 (Standard)
KEY OPERATION

## MAINTENANCE

## OUTPUT SPECIFICATION:

| Relay | 2 nos. |
| :--- | :--- |
| Relay Type | 1 C/O (NO-C-NC) |
| Rating | $1^{\text {st }}$ Relay 10A, 230V AC <br> $2^{\text {nd }}$ Relay 5A, 230V AC |

AUXILIARY SUPPLY:

| Supply voltage | $230 \mathrm{VAC}, \pm 20 \%, 50 \mathrm{~Hz}$ |
| :--- | :--- | Power consumption (VA RATING)

ENVIRONMENT CONDITION

| Operating Temp. | $0^{\circ} \mathrm{C}$ to $55^{\circ} \mathrm{C}$ |
| :--- | :--- |
| Relative Humidity | UP to $95 \% \mathrm{RH}$ <br> (non-condensing) |
| Protection Level | IP-65 (Front side) As per IS/IEC |
| (As per request) | $60529: 2001$ | | NETWORK CONNECTION : |
| :--- |
| $3 \emptyset-3 W / 3 \emptyset-4 W / 1 \varnothing-2 \mathrm{~W}$ |

3Ø-3W/3Ø-4W/1ø-2W



## FUNCTION

OPERATOR MODE

| To enter in parameter setting | (SET |
| :--- | ---: |
| To view individual phase voltage | For 5 sec |
| To Scroll \& Hold Page |  |
| To reset the relay contact in <br> manual mode after tripping |  |

PARAMETER SETTING MODE

| It is used to set parameter value <br> and to be save \& exit from menu | SET |
| :--- | :---: |
| To increment value in parameter <br> setting |  |
| To decrement value in parameter <br> setting |  |



1) To install the instrument on a DIN rail, raise the clamp at the back of the instrument and place it on the rail. Now release back of the instrument and place it on the rail. Now
2) Ensure proper fitting of the instrument by pulling it outwards.
3) To remove the instrument raise the clamp to release it from the DIN rail.
4) The equipment in its installed state must not come in close proximity to any heating source, caustic vapors, oil steam, or other unwanted process byproducts.
5) Do not connect anything to unused terminals.


Password 11 : To Enable / Disable parameter Over Voltage, Under Voltage,ove Frequency,Under Frequency, Asymmetry,Phass loss, Phase Asymmetry,
sequence)
Password 37: To set Power on delay time, Trip delay Time,Relay Fault Mode, Reset mode, network selectiom


## Password 73 : Relay 1 Settings <br> Password 97 : Relay 2 Settings

Relay -1 \& Relay -2 Settings : To Set Trip Value Of Over Voltage, Under Voltage, Over Frequency, Under Frequency, Asymmetry Percentage


- If R2M ( Relay-2 mode ) is selected as R1 ( Relay-1 ), all the setting done for Relay-1 will be automatically set for Relay- 2 . - If Reset Mode Selected As ZVR ( Zero Value Reset ), then the Relay will be reset after Selected Reset time once the healthy condition achieved OR Zero Value reached.


FAULT MESSAGE

| FAULT MESSAGE |  |  |
| :---: | :---: | :---: |
|  |  | - 0 ver Voltage in Relay 1 VL1L2 $2(3 \varnothing-3 \mathrm{~W})$ or $\mathrm{V}_{1}(30-4 \mathrm{~W})$ Over Voltage Value $=400.6 \mathrm{~V}$ |
|  |  | - Under Voltage in Relay 2 K-2L3(3ø-3W) or VL2 $3 \varnothing-4 W$ ) Under Voltage Value $=220.5 \mathrm{~V}$ |
|  |  | - Over Frequency Fault in Relay 2 <br> - Over Frequency <br> Value=52.5 Hz |
|  |  | - Under Frequency Fault in Relay 1 <br> - Under Frequency <br> Value $=49.5 \mathrm{~Hz}$ |
|  |  | - Asymmentry Voltage <br> between y \& B Phase in Relay 1 <br> - Asymmentry Percentage <br> = $20 \%$ |
|  |  | -L1- Phase loss |
|  |  | - Phase sequence Fault |

[^0]Specifications are subject to change, since development is $\mathbf{s}$ continuous process,
So ore more udatee operating information and So for morec updatated operatitis information and Support,
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[^0]:    Note : LED Status- blinking LED•LED on oLED off

