OP441-V01

selec

900VPR-BL-U

Operating Instructions

FEATURES

- Over voltage, Under voltage, Over frequency, Under frequency, Phase Asymmetry, Phase failure, Neutral Loss, Phase sequence monitoring system etc.
- True RMS measurement
- Trip Time delay, Recovery Time delay, Power ON delay
- Adjustable switching Hysteresis
- Two separate alarm relays operation

SPECIFICATIONS

DISPLAY
3 Digits, LCD with Backlight

ELECTRICAL CONNECTION
3Ø-3 wire, 3Ø-4 wire

AUXILIARY SUPPLY
85 – 270V AC/DC
50 / 60Hz

OPERATING RANGE
50 – 288V AC (L-N)
85 – 500V AC (L-L)

FREQUENCY RANGE
45 – 65Hz

VA RATING
4VA max.

TRIP SETTINGS

Under Voltage	: 50 to 288V AC (L-N) [for 3Ø-4 wire] 85 to 500V AC (L-L) [for 3Ø-3 wire]
Over Voltage	: 50 to 288V AC (L-N) [for 3Ø-4 wire] 85 to 500V AC (L-L) [for 3Ø-3 wire]
Under Frequency	: 45 – 65Hz
Over Frequency	: 45 – 65Hz
Phase Asymmetry	: 5 – 30%

TIME SETTINGS

Power ON Delay	: 0.5 – 300sec.
Trip Time Delay	: 0 – 300sec.
Recovery Time	: 0 – 300sec.
Response Time	
Under Voltage	: < 120ms
Over Voltage	: < 120ms
Phase Asymmetry	: < 120ms
Phase loss	: < 200ms
Phase sequence	: < 250ms

HYSTERESIS

Voltage	: 1 – 40V
Frequency	: 0.2 – 2.0Hz
Asymmetry	: 2 – 20.0%

RESOLUTION

Voltage	: 1V
Frequency	: 0.1Hz

ACCURACY

Voltage	: ±1% ± 2digits
Frequency	: ±0.5% ± 1digit
Time	: ±5% of setting ±120ms

(Trip Time Delay, Power ON Delay, Recovery Time Delay)

OUTPUT SPECIFICATIONS
2 Relays : Relay1 : 1C/O (SPDT)
Relay2 : 1C/O (SPDT)

RELAY RATING
NO (5A, 250V AC)
NC (3A, 250V AC)

LED INDICATION
LED1 : Continuously ON after trip
LED2 : Continuously ON after trip

ENVIRONMENTAL SPECIFICATIONS
- Indoor use
- Altitude of up to 2000 meters
- Pollution degree II

Temperature : Operating : -25°C to +55°C
Storage : -25°C to +70°C
Humidity : Up to 95% RH, non-condensing

MECHANICAL SPECIFICATIONS
No. of Push Buttons : 3
Size : 35mm width
Mounting : 35mm Din Rail Mount
Wire Size (max) : 4 sq.mm
Screw tightening torque : 0.5 N-M

WEIGHT
150 gms.

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 instructions prior to installation and operation of the unit.

WIRING GUIDELINES

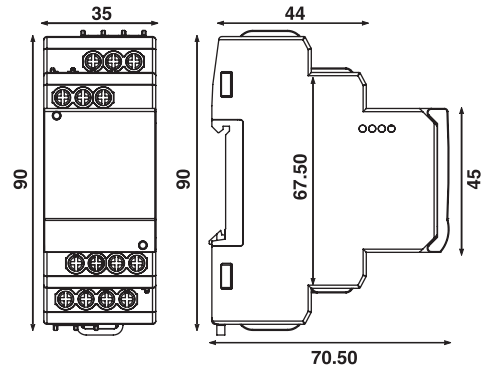
WARNING

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 to the terminal layout with shortest connections. Confirm that all connections are correct.

CAUTION

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

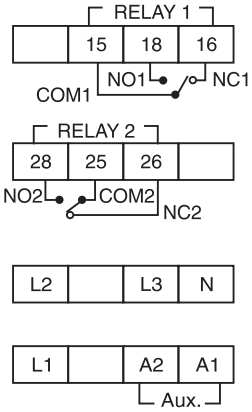
DIMENSIONS (All dimensions in mm)

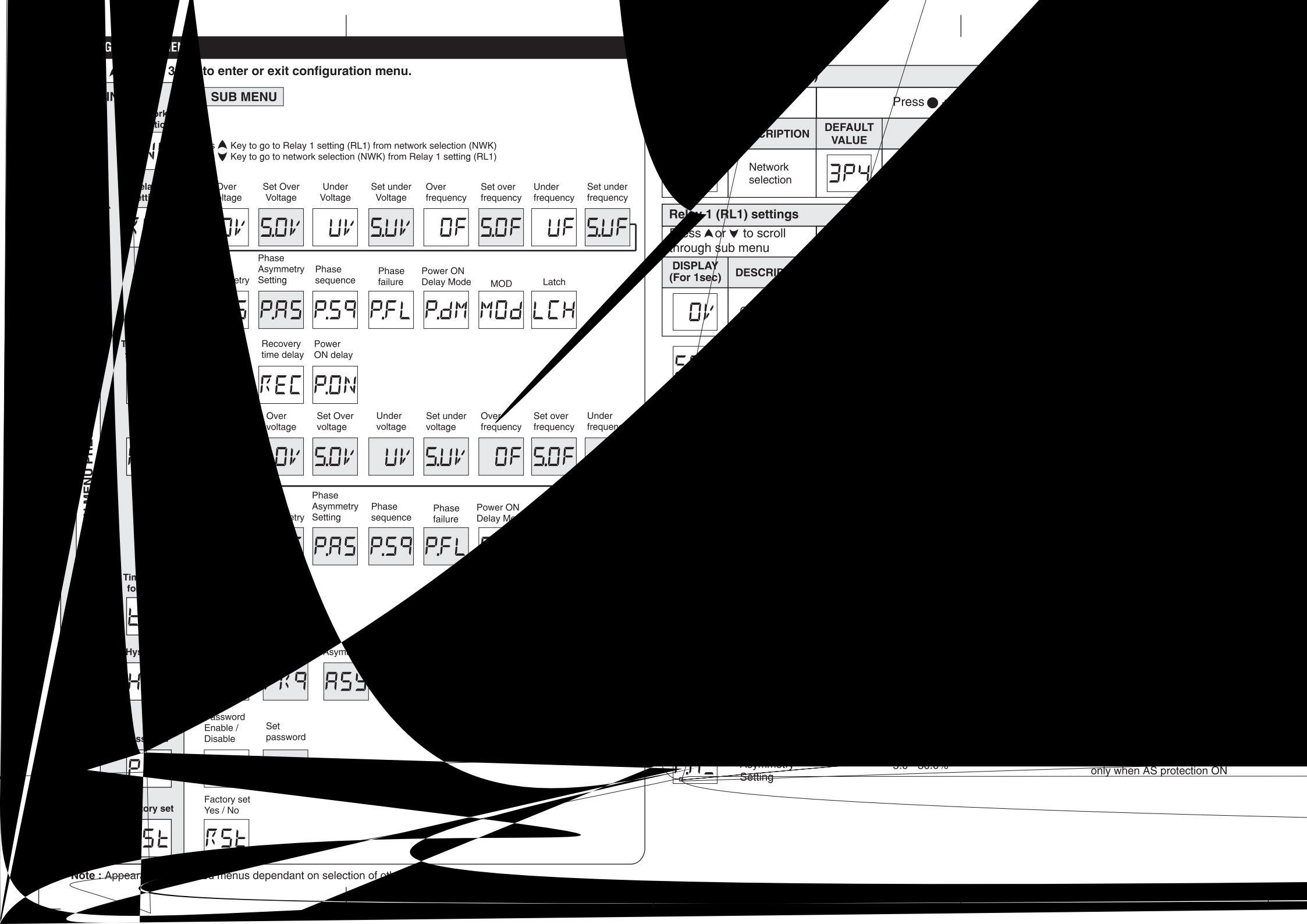


LED INDICATION CHART

Various Conditions	'R1' LED	'R2' LED
No fault	OFF	OFF
R1 Trip	ON	OFF
R2 Trip	OFF	ON
Both the Relay Trip (If Programed for Both Relay)	ON	ON

TERMINAL CONNECTIONS




to enter or exit configuration menu.
SUB MENU
Key to go to Relay 1 setting (RL1) from network selection (NWK)
Key to go to network selection (NWK) from Relay 1 setting (RL1)
Over Voltage
Set Over Voltage
Under Voltage
Set under Voltage
Over frequency
Set over frequency
Under frequency
Set under frequency
Phase Asymmetry Setting
Phase sequence
Phase failure
Power ON Delay Mode
MOD
Latch
Recovery time delay
Power ON delay
Password Enable / Disable
Set password
Factory set Yes / No
Press
DEFAULT VALUE
Network selection
3P4
Relay 1 (RL1) settings
Press ▲ or ▼ to scroll through sub menu
DISPLAY (For 1sec)
only when AS protection ON
Note : Appear