

Features:

- ▶ Autoranging voltage display
- ▶ User settable trip level and time delay
- ▶ Din rail mounting
- ▶ Password protection
- ▶ Two Relays Output
- ▶ Auto / Manual Reset
- ▶ Protection under voltage, over voltage, under frequency, over frequency, phase loss phase reversal and voltage asymmetry

**Advantages:**

- ▶ Din rail mount
- ▶ Compact size

Applications:

- ▶ Generator Control Panel
- ▶ Distribution Control Panel
- ▶ Protection Control Panel

Display

Display	LCD (Displays Voltage (L-L/L-N), Frequency & Voltage Asymmetry)
Digit	3

Input Specification

Status of Relay	Programmable
Reset	Auto / Manual Programmable

Output Specifications

No. of Relay	2
Relay Rating	NO (5A and 240V AC) NC (5A and 240V AC)
Type of O/P (Relay 1)	1 C/O (SPDT)
Type of O/P (Relay 2)	1 C/O (SPDT)

Functional Specifications

Time Delay	Power ON, Trip Time, Recovery Time
Alarm Indication	Trip (R1 & R2 LED)
Connection	1Ø -2wire, 3Ø -4wire 3Ø -3 wire

Protections

Under Voltage
Over voltage
Phase loss
Phase reversal
Under frequency
Over frequency
Voltage asymmetry

Supply Specifications

Supply Voltage	90-270V AC/ DC
Supply Frequency	50/60 Hz
Power Consumption	3VA max.

Environmental Specification

Operating Temperature	-10°C to 70°C
Storage Temperature	-20°C to 50°C
Humidity	Up to 95% RH

Mechanical Specification

Weight	200 g
Dimensions	93X35X68 mm(LxBxH)
Mounting	Din rail Mount
Enclosure	ABS Thermoplastic
Button	3

Voltage setting

Under voltage	: 280 to 520V AC of 3Ø, 3 wire 160 to 300 V AC of 3Ø, 4 wire/1Ø2 wire
Over voltage	: 282 to 520V AC of 3Ø, 3 wire 162 to 300 V AC of 3Ø, 4 wire/1Ø2 wire
Under Frequency	: 45 - 63Hz
Over Frequency	: 47 - 65Hz
Voltage asymmetry	: 5.0-99.9 %
Phase loss	: ≤ 150 voltage of 3Ø 4wire -1Ø2wire ≤ 260 voltage of 3Ø 3wire

Trip Time Setting

Power ON Delay	0 - 99.9 sec
Trip Time Delay	0 - 99.9 sec
Recovery Time Delay	0 - 99.9 sec (auto reset)
Response Time	≤ 200 ms

Hysteresis

Hysteresis	Voltage : 0.1-3.5%
	Frequency : 0.2 - 2.0Hz
	Asymmetry : 2.0 -20.0 %

Resolution

Voltage	Auto ranging (0.01V to 1V)
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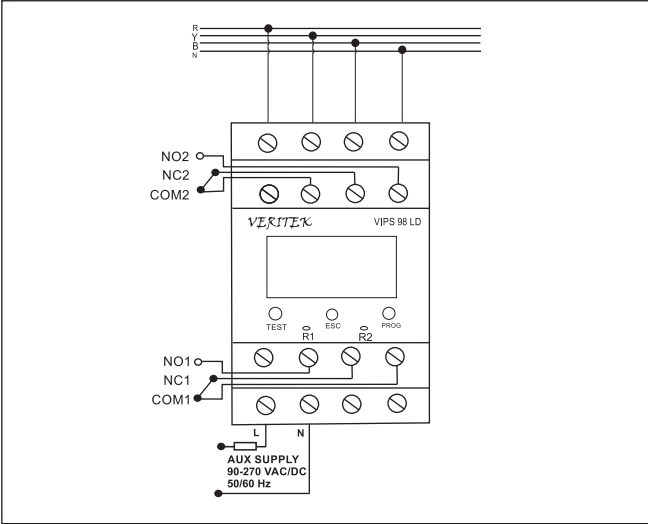
Accuracy

Voltage	± 1% of setting
Time Setting Accuracy	± 5% of setting
Frequency	± 0.3Hz

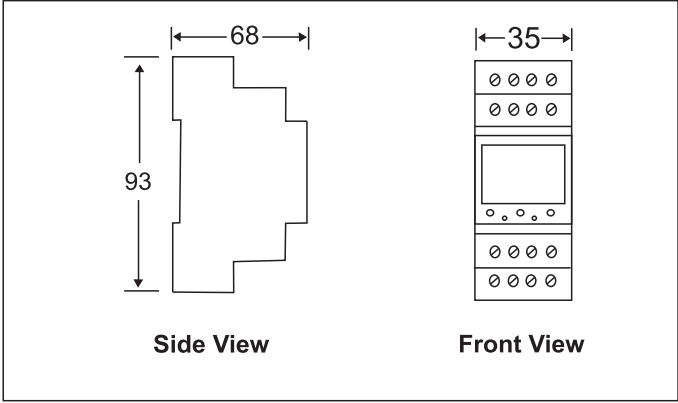
Indication

R1 (Red LED)	Relay 1 trip
R2 (Red LED)	Relay 2 trip

Connection Diagram



Dimension



Ordering Information

Ordering Code	Description
VIPS VFT-LD	DIN Rail mounted LCD Voltage Relay