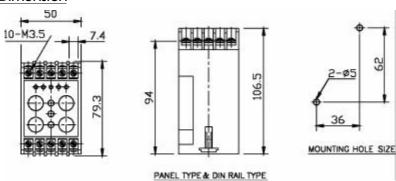
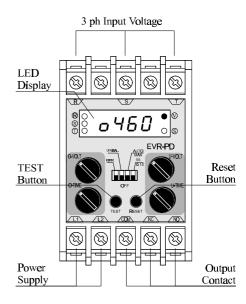
Introduction Relay Fascia

- Microprocessor based digital display
- Over voltage and Under voltage protection
- Independent voltage setting and trip delay adjustment
- Phase Loss, Phase Reversal and Voltage Unbalance protection
- Definite trip time characteristic
- Low energy consumption / Compact design
- Ambient insensitive

Dimension





Specification

pecilicalion					
Voltage setting		Type	Under voltage Over voltage		
range		220	3 phase 160~240V	3 phase 220~300V	
85		440	3 phase 300~440V	3 phase 380~500V	
Operating Time(O-Time)			$0.5 \sim 10$ sec, Adjustable		
Phase Loss(PL)			2 sec		
Reverse Phase(RP)			0.5 sec		
Voltage Unbalance			$\pm 5\%$ deviation between the line voltages		
Control power	220		85~250VAC/DC 50/60Hz		
	Others		Option		
Operation characteristic			Definite		
Output	Contact		1-SPDT 3A/250VAC Resistive		
	Status		Normally energize		
Test			confirmation of the preset value		
Reset			Manual/Auto. selectable with DIP switches		
Operation Characteristic			Definite		
Display	Normal		Shown the 3 phase line voltage in turn		
	Trip		Shown the cause of trip and voltage		
Atmosphere	Temp.	Store	-30 ℃ ~80 ℃		
		Operation	-25 °C ~ 70 °C		
	Humidity		45~85% RH Non-condensing		
Tolerance	Voltage		$\pm 5V$		
	Time		$\pm 10\%$		
Mounting			35mm Din Rail		

DIP SW. Selection Guide

Function	Selection			
	On	Off		
RPR(Reverse phase protection)	Enable	Disable		
Unbalance	Enable	Disable		
Auto/Manual(Reset)	Auto reset	Manual reset		
5 sec/1 sec (Auto reset time)	5 sec delay reset after trip when auto reset is selected	1 sec delay reset after trip when auto reset is selected		

How to setting

1. Over Voltage setting

Turn the O-VOLT potentiometer slowly CCW until the "o" letter flashes and voltage indicates on the screen, where the input voltage is indicated set the desired voltage.

2. O-Time (Over voltage trip delay time)

Set the trip delay time when the line voltage is over than preset over voltage setting with O-TIME potentiometer.

3. Under Voltage setting

Set the U-VOLT potentiometer slowly CW until the desired trip level is indicated on the screen.

4. U-Time (Under voltage trip delay time)

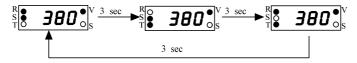
Set the trip delay time when the line voltage is less than preset under voltage with U-TIME potentiometer.

Protection and Indication

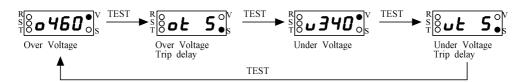
Function	Display	Cause of Trip	Description	Operation Delay
Over Voltage	RS 0460 °S	Operated by max. voltage 460V on S-T phase	Input voltage exceeds preset O-Volt	Preste O-TIME
Under Voltage	R S 10 ° V	Operated by min. voltage 310V on R-T phase	Input voltage drops in preset U-Volt	Preset U-TIME
Phase Loss	R S - PL - O S	Operated by phase loss on T phase		2 sec
Reverse Phase	R O - RP - O S	Operated by phase reversal		0.5 sec
Voltage Unbalance	^R S U420 ° S	Operated by voltage unbalance	Voltage deviation is over than 5%	3 sec

DIGITAL 3 phase volt meter

3 phase voltages are displayed in sequence on the LED display

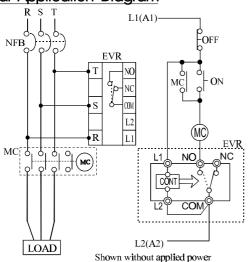


DISPLAY OF SETTING



When the pressing of TEST button, the preset amount is displayed in sequence as shown.

Typical Application Diagram



Ordering Information

- ① Model
 - ▶ Digital 3 phase voltage relay
- ② 3 phase input voltage
- ▶ 220 : 160~300VAC
- ► 440 : 300~500VAC
- ③ Contact
 - ▶ N : Normally Energized.
- ④ Power supply
 - ► 220V: 85~250VAC/DC (The other voltage is optional)