Three Phase Phase Correction Relay

Product Code: PCR-3P-PR16

Salient Features:

1] Microcontroller based technology.
2] Protection against under voltage, over voltage, Single Phasing & Reverse Phasing.
3] All the set points settable by keys.
4] Trip Delay for Under Voltage, Over Voltage, Unbalance is settable
5] Indications for Low voltage, High Voltage, R2 &R1 Relay ON.
6] Message Display for Under Voltage, Over Voltage & Unbalance Faults.
7] No separate auxiliary supply required.

Technical Specifications:

Supply voltage: 3 Phase 415 VAC, 50 Hz (R, Y, B &N) (No auxiliary supply)
2] Output Contacts: L1-Normal Sequence, L2 Reverse Phase Sequence
Indications: FAULT (UV, OV): RED LED, RELAY ON: GREEN LED
Relative Humidity: 10 to 95% RH
Mounting: Drain Rail
Keys:
1) **SET**: SET key, Press to enter into SET Mode
2) **INC:** Upward Arrow key, Press to increment the set point.
3) **DEC:** Downward Arrow key, To Decrement the set point.

Working:

1] If the Input supply is within the range of the fault limits then On Timer starts decrementing on display & after Set On Time over Relay will be ON with RLY indication glowing.

2] If OV, UV, Spp, Unbalance occurs in the supply then Relay will be OFF after the trip delay of that particular fault.

3] If any Phase to Phase Voltage increases above OV set point, Relay will trip after trip delay (<100 ms) over. If that particular phase to phase voltage reduces below (OV set point - 10 V), Relay will be ON after the set reset delay over.
4] If any Phase to Phase Voltage increases/reduces Above/below the UB set point compared to other two Phase to Phase voltages, Relay will trip after set trip delay over. If that particular phase to phase voltage reduces/increases below/above (UB set point -/+ 10 V), Relay will be ON after the set reset delay over
5] If any of the Phase fails, Relay will trip after trip delay (<100 ms) over. If all phases are present, Relay will be ON after the set reset delay over.
6] If Phase sequence is changed to R-B-Y/Y-R-B/B-R-Y, Relay (R2) will be ON. If phase Sequence is corrected to R-Y-B, Relay (R1) will be ON after the set reset delay over. UB/SPP, UV, OV.

Parameter Settings:

Parameter	Default	Range	Hysteresis
Under Voltage(UV)	300v	300-380v	10v
Over Voltage(OV)	460v	430-500v	10v
Relay ON/RESET Delay(dLy)	10Sec	1 Sec to 60 Sec	-
Voltage unbalance(Ub)	70 V	1 to 100 V	10 V
Voltage trip delay(utr)	5 Sec	1 to 60 Sec	-
Reverse Phase(rp)	Yes	Yes/No	-

Terminal:

SUPPLY 415 VAC					
R	**Y**	**B**	**N**	-	-

OUTPUT		L1:NORMAL SEQUENCE
L1	**L2**	L2:REVERSE PHASE SEQUENCE