AUTOMATIC TRANSFER SWITCH CONTROLLER

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 is settable
5] Reverse phasing protection can be bypass through settings.
6] Indications for under voltage, over Voltage, SPP & Mains ON & DG Supply Available.
7] Message Display for UV, OV, SPP, Reverse Phasing & Unbalance faults.
8] If mains supply is absent unit works on DG supply.

Technical Specifications:

Supply voltage	:	3 Phase 415 VAC, 50/60 Hz (R, Y, B &N) (No auxiliary supply)
Output Contacts	:	2 SPDT (NO-C) Relay and 1 SPDT (NO-C-NC), Rating 5A at 250V AC
Indications	:	Red LED for fault :(UB/SPP/REVP/UV/OV) Green LED for: Mains relay ON,DG Relay ON, Mains supply available and DG supply Available
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.
Mounting	:	Door Mounting.
Dimensions	:	96(L) * 96(W) * 75(D) mm

Working:

1] At power ON condition, if the Input supply is within the range of the fault limits then on timer starts decrementing on display & after set ON delay over MC ON relay and MAINS FAIL relay will be ON with mains supply indication LED.

2] If OV, UV, SPP, reverse phasing or unbalance fault occurs in the supply then MC ON relay and mains fail relay will be OFF.

3] After 10 Seconds / settable on delay GC ON relay will be ON with DG supply indication LED.

4] If that particular fault is disappear or removed then ON delay plus interval delay starts decrementing on display (unit sense mains present or not).

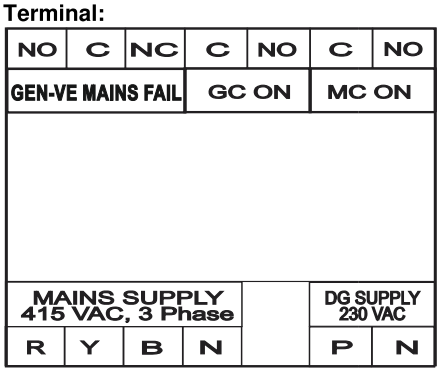
5] After interval time GC ON relay gets OFF and MC ON relay will be ON and after mains fail relay ON delay, Mains fail relay will be ON.

Parameter Settings:

Parameter	Display (Massage)	Default	Range	Hysteresis
Under Voltage	(Uu)	300 V	300 V to 380 V	10 V
Over Voltage	(ou)	460 V	430 V to 500 V	10 V
Voltage unbalance	(Ub)	70 V	1 V to 100 V	10 V
Mains Relay ON/RESET Delay	(r1d)	10 Sec	1 Sec to 60Sec	-
Relay TRIP Delay	(trP)	5 Sec	1 Sec to 60Sec	-
Reverse Phase Enable or Disable	(rP)	Yes (Enable)	Yes/No (Enable Or Disable)	-
DG Relay ON/RESET Delay	(r2d)	10 Sec	1 Sec to 60Sec	-
INTERVAL Delay	(Ind)	10 Sec	1 Sec to 60Sec	-
Mains fail relay ON delay	(r3d)	10 Sec	1 Sec to 180 Sec	-

Note: **rl1** means – MC ON Relay, **rl2** means – GC ON Relay

Terminal:



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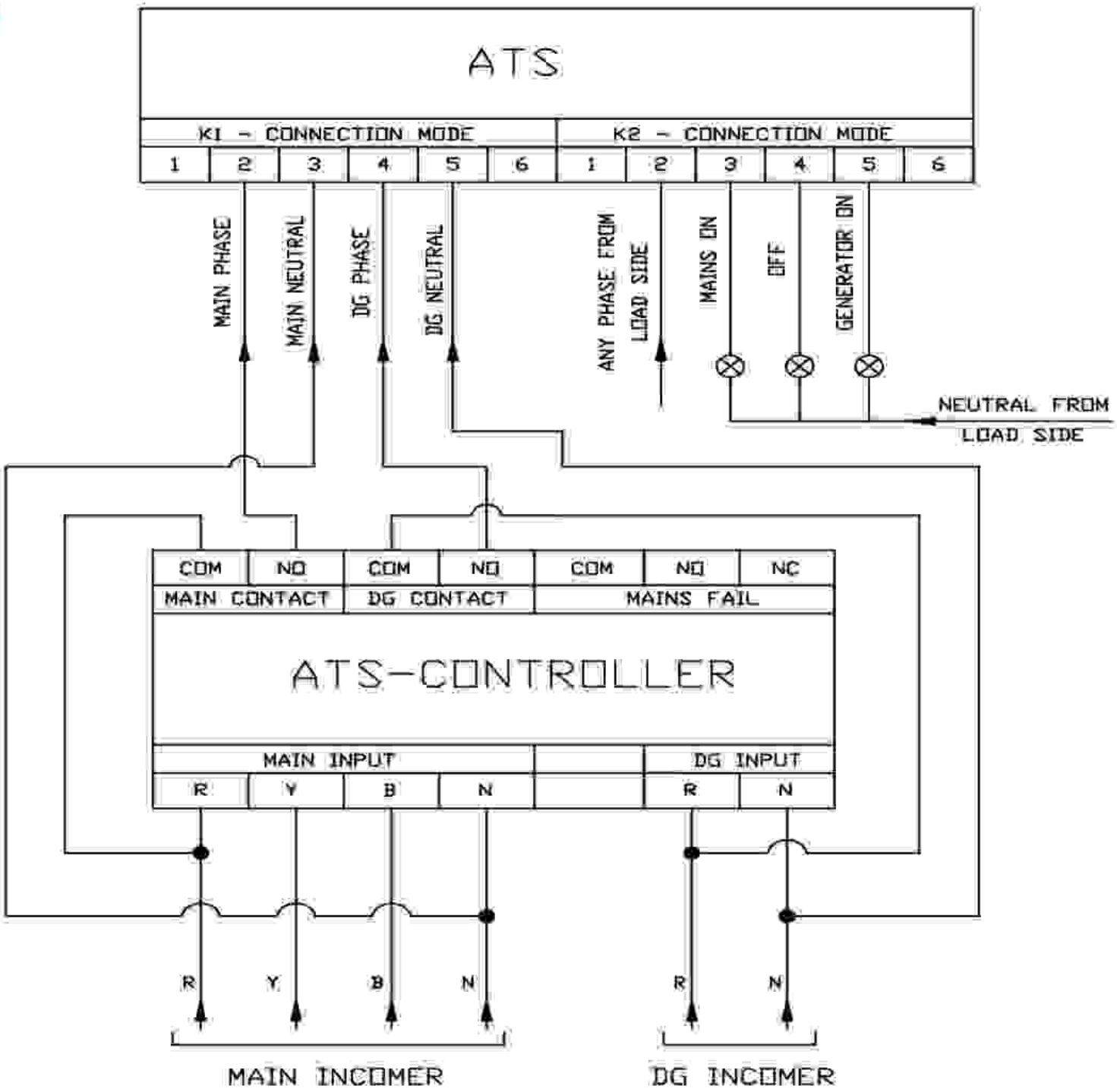
ATS CONTROLLER WIRING - DIARGRAM



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