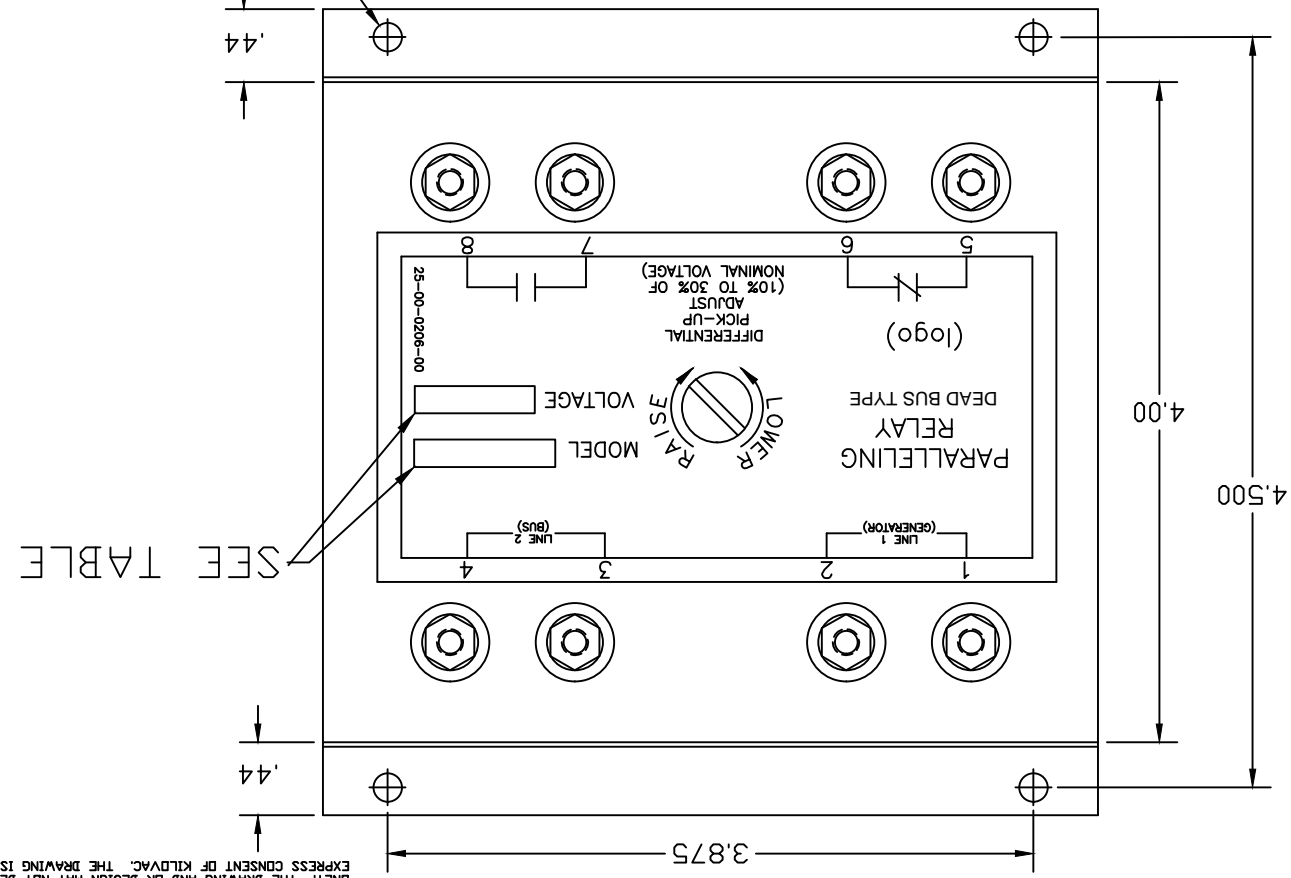
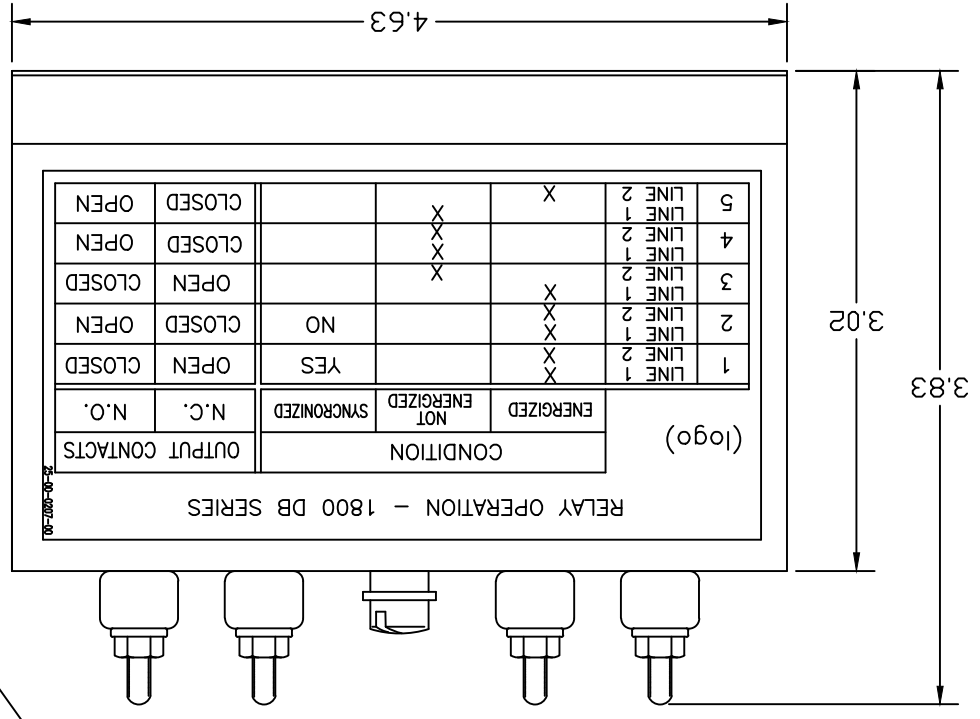


- NOTES:
1. REMOVE BLACK SCREW FOR ACCESS TO THE DIFFERENTIAL PICK-UP ADJUSTMENT.
  2. COUNTERCLOCKWISE ROTATION OF THE PICK-UP ADJUSTMENT WILL INCREASE THE DIFFERENTIAL TRIP POINT.
  3. OUTPUT CONTACTS ARE SHOWN IN THE DE-ENERGIZED POSITION.
  4. STAMP: GECA P/N M129-B061 ON LOCATION SHOWN, ONLY FOR UNITS SUPPLIED TO GEC ALSTHOM.



SPECIFICATIONS

TO PROVIDE AUTOMATIC PARALLELING (SYNCHRONIZING) OF TWO POWER LINES. THE RELAY SENSES THE PHASE ANGLE DISPLACEMENT AND THE AMPLITUDE DIFFERENCE BETWEEN TWO VOLTAGES AND PERMITS PARALLELING WHEN BOTH VOLTAGES ARE EQUAL AND IN PHASE, OR WHEN ONE LINE IS NOT ENERGIZED, DEAD BUS CONDITION.

LINE VOLTAGE: (SEE TABULATION BELOW)  
 LINE FREQUENCY: 50 TO 400 HZ.

OPERATION: THE RELAY IS FACTORY ADJUSTED AS FOLLOWS:  
 A. THE RELAY WILL ENERGIZE WHEN THE AMPLITUDE DIFFERENCE BETWEEN THE TWO VOLTAGES IS 17% (10 ELECTRICAL DEGREES) OR LESS.  
 B. THE RELAY WILL ENERGIZE WHEN LINE 1 IS ENERGIZED AND LINE 2 IS DEAD.

TIME DELAY: APPROXIMATELY 0.1 SECOND.  
 OUTPUT CONTACTS: ONE SET NORMALLY CLOSED, ONE SET NORMALLY OPEN.  
 CONTACT RATING: 10A RESISTIVE AT 30VDC OR 120VAC, 400HZ.  
 3 A RESISTIVE AT 120VAC, 60HZ.  
 PICK-UP ADJUST: SCREWDRIIVER ADJUSTABLE OVER THE RANGE OF 10% TO 30% OF THE NOMINAL VOLTAGE. (VECTORAL VOLTAGE OF 5 TO 18 ELECTRICAL DEGREES)

CONSTRUCTION: SOLID STATE SENSOR WITH RELAY OUTPUT ENCLOSED IN A SEALED STEEL CAN.

MILITARY SPECIFICATIONS: NAVY HI-SHOCK, PER MIL-S-901, MIL-R-2033A.

TE #	MODEL	INPUT VOLTAGE
1618065-7	1810DB-SX	120 VAC
2-1618065-0	1820DB-SX	230 VAC
2-1618065-8	1830DB-SX	380 VAC
3-1618065-4	1840DB-SX	460 VAC
4-1618065-2	1850DB-SX	575 VAC
4-1618065-6	1860DB-SX	415 VAC
5-1618065-1	1870DB-SX	277 VAC
5-1618065-9	1880DB-SX	200 VAC
1618065-2	1890DB-SX	90 VAC

- OUTPUT CONTACT OPTIONS:
1. TWO SETS NORMALLY OPEN: ADD -A TO MODEL NUMBER
  2. TWO SETS NORMALLY CLOSED: ADD -B TO MODEL NUMBER
- NON-MAGNETIC ENCLOSURE OPTION:  
 UNITS ENCLOSED IN A SEALED NON-MAGNETIC METALIC CANS ARE AVAILABLE. ADD -SS TO MODEL NUMBER.

**TE KIOVAC**  
 550 Linden Ave.  
 Cupertino, CA US 93013  
 Internet: www.te.com

**TE**  
 KIOVAC

TITLE: RELAY, 1800DB-SX SERIES  
 ECD No. 16231  
 REV. B  
 KILDVAC. NO. SD  
 1800DB-SX

18741 RM  
 EDITED BY EFTV DATE 01-23-14  
 APPROVED BY APV DATE 01-23-14  
 SCALE 1:1  
 DD NOT SCALE DRAWING SHEET 1 OF 1 B

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