

THIS DRAWING AND THE DESIGN IT DISCLOSES ARE THE PROPERTY OF KILOVAC, AND IT IS ISSUED IN CONFIDENCE FOR ENGINEERING INFORMATION ONLY. THE DRAWING AND OR DESIGN MAY NOT BE REPRODUCED, DISCLOSED TO OUTSIDERS OR USED FOR ANY OTHER PURPOSE WITHOUT THE PRIOR EXPRESS CONSENT OF KILOVAC. THE DRAWING IS LOANED FOR MUTUAL ASSISTANCE AND IS SUBJECT TO RECALL AT ANY TIME.



1. REMOVE BLACK SCREW FOR ACCESS TO THE DIFFERENTIAL PICK-UP ADJUSTMENT.
2. CLOCKWISE 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.

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 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: SCREWDRIVER 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.

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.

CD		CUSTOMER DRAWING			
DRAWING PER ASME/ANSI Y14.5		 550 Linden Ave. Carpinteria, CA US 93013 Internet: www.te.com			
THIRD ANGLE PROJECTION 					
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED. Block Tolerances are not applied if values are set to zero.		TITLE			
FRACTIONS DECIMALS ANGLES ±1/64 .XX = ±0.03 ± 1° .XXX = ±0.010		RELAY, 1800DB-SX SERIES			
±1°  		ECN No. 16231		REV. B KILOVAC. NO. SD	
CAGE CODE 18741		APPROVED BY TN		DO NOT SCALE DRAWING	
EFTV DATE 01-23-14		APRV DATE 01-23-14		SIZE B	
RM		SCALE 1:1		SHEET 1 of 1	