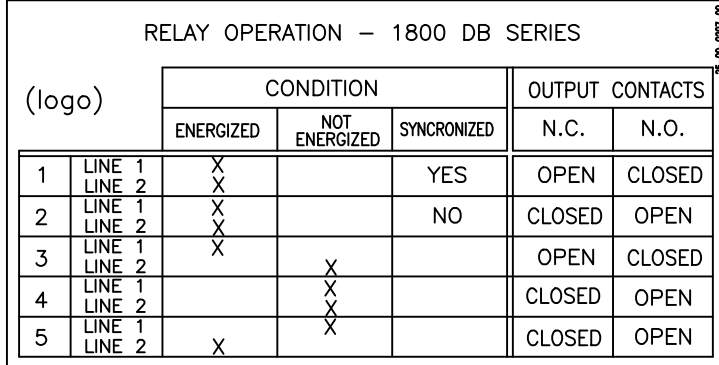


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1. REMOVE BLACK SCREW FOR ACCESS TO THE DIFFERENTIAL PICK-UP ADJUSTMENT.
2. CLOCKWISE ROTATION OF THE PICK-UP ADJUSTMENT WILL INCREASE THE DIFFERENTIAL TRIP POINT.
3. OUTPUT CONTACTS ARE SHOWN IN THE DE-ENERGIZED POSITION.
4. STAMP: GECA P/N M129-B061 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 $\pm 1/64$.XX = $\pm .03$ $\pm 1^\circ$.XXX = $\pm .010$			RELAY, 1800DB-SX SERIES								
ECD No.		REV.		KILOVAC. NO.							
16231		B		SD		1800DB-SX					
$\pm .1$  .005  .005											
CAGE CODE	EDITED BY	EFTV DATE	APPROVED BY	APRV DATE	SCALE	DO NOT SCALE	DRAWING	SHEET 1 of 1	SIZE		
18741	RM	01-23-14	TN	01-23-14	1:1				B		