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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Protection Operated | Protection Panel Indication | | | Phase  Segregation | LEDs’ on Relay | SAS HMI Alarm | CB  Operation | | IN/OUT |
| MICOM P546  87L Diff | TRIP INST. | 86F2 OPTD | CBF INIT. | R – Y – B | R-PH TRIP + Y-PH TRIP + B-PH TRIP + DIFF TRIP | CBF INITIATION + 86F2 OPERATED + CB CLOSE LOCKOUT + DIFF OPERATED + I/T FAST SEND | TRIP BY TC2 | CB CLOSE BLOCK | IN/OUT CHECKED |
| OK | OK | OK | OK | OK | OK | OK | OK | OK |
| MICOM P546  Z1 OPTD | TRIP INST. | 86F2 OPTD | CBF INIT. | R – Y – B | R-PH TRIP + Y-PH TRIP + B-PH TRIP + Z1/AID1/AID2 TRIP | CBF INITIATION + 86F2 OPERATED + CB CLOSE LOCKOUT + 21 ZONE-1 OPTD R-PH + 21 ZONE-1 OPTD Y-PH+ 21 ZONE-1 OPTD B-PH + I/T FAST SEND + 21 ZONE-4 OPTD R-PH + 21 ZONE-4 OPTD Y-PH+ 21 ZONE-4 OPTD B-PH | TRIP BY TC2 | CB CLOSE BLOCK | IN/OUT CHECKED |
| OK | OK | OK | OK | OK | OK | OK | OK | OK |
| MICOM P546  Z2 OPTD | TRIP  DELAYED | 86F2 OPTD | CBF INIT. | R – Y – B | R-PH TRIP + Y-PH TRIP + B-PH TRIP + Z2/Z3/E.F/O.C TRIP | CBF INITIATION + 86F2 OPERATED + CB CLOSE LOCKOUT + 21 ZONE-2 OPTD R-PH + 21 ZONE-2 OPTD Y-PH+ 21 ZONE-2 OPTD B-PH + I/T SEND | TRIP BY TC2 | CB CLOSE BLOCK | IN/OUT CHECKED |
| OK | OK | OK | OK | OK | OK | OK | OK | OK |
| MICOM P546  Z3 OPTD | TRIP  DELAYED | 86F2 OPTD | CBF INIT. | R – Y – B | R-PH TRIP + Y-PH TRIP + B-PH TRIP + Z2/Z3/E.F/O.C TRIP | CBF INITIATION + 86F2 OPERATED + CB CLOSE LOCKOUT + 21 ZONE-3 OPTD R-PH + 21 ZONE-3 OPTD Y-PH+ 21 ZONE-3 OPTD B-PH + I/T SEND | TRIP BY TC2 | CB CLOSE BLOCK | IN/OUT CHECKED |
| OK | OK | OK | OK | OK | OK | OK | OK | OK |
| MICOM P546  Z2 AIDED | TRIP INST. | 86F2 OPTD | CBF INIT. | R – Y – B | R-PH TRIP + Y-PH TRIP + B-PH TRIP + Z1/AID1/AID2 TRIP + I/T RECEIVED + DIST/DEF CR | CBF INITIATION + 86F2 OPERATED + CB CLOSE LOCKOUT + 21 CARRIER RECIVED + I/T FAST RECEIVED + 85R1 OPTD + 21 AIDED DIST TRIP + 21 CARRIER SEND + DIFF OPERATED | TRIP BY TC2 | CB CLOSE BLOCK | IN/OUT CHECKED |
| OK | OK | OK | OK | OK | OK | OK | OK | OK |

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| Protection Operated | Protection Panel Indication | | | Phase  Segregation | LEDs’ on Relay | SAS HMI Alarm | CB  Operation | | IN/OUT |
| MICOM P546  SOTF TRIP | TRIP INST. | 86F2 OPTD | CBF INIT. | R – Y – B | R-PH TRIP + Y-PH TRIP + B-PH TRIP + Z1/AID1/AID2 TRIP + SOTF TRIP | CBF INITIATION + 86F2 OPERATED + CB CLOSE LOCKOUT + 21 DIST PROT SOTF OPTD + 21 ZONE-4 OPTD R-PH + 21 ZONE-4 OPTD Y-PH  + 21 ZONE-4 OPTD B-PH | TRIP BY TC2 | CB CLOSE BLOCK | IN/OUT CHECKED |
| OK | OK | OK | OK | OK | OK | OK | OK | OK |
| MICOM P546  O/C | TRIP  DELAYED | 86F2 OPTD | CBF INIT. | R – Y – B | R-PH TRIP + Y-PH TRIP + B-PH TRIP + Z2/Z3/E.F/O.C TRIP | CBF INITIATION + 86F2 OPERATED + CB CLOSE LOCKOUT + DELAYED I/T SEND + 51-2 R-PH OPTD + 51-2 Y-PH OPTD + 51-2 B-PH OPTD | TRIP BY TC2 | CB CLOSE BLOCK | IN/OUT CHECKED |
| OK | OK | OK | OK | OK | OK | OK | OK | OK |
| MICOM P546  E/F | TRIP  DELAYED | 86F2 OPTD | CBF INIT. | R – Y – B | Z2/Z3/E.F/O.C TRIP | CBF INITIATION + 86F2 OPERATED + CB CLOSE LOCKOUT + DELAYED I/T SEND + 51N-2 OPTD | TRIP BY TC2 | CB CLOSE BLOCK | IN/OUT CHECKED |
| OK | OK | OK | OK | OK | OK | OK | OK | OK |
| MICOM P546  DEF | TRIP INST. | 86F2 OPTD | CBF INIT. |  | Z1/AID1/AID2 TRIP + I/T RECEIVED + DIST/DEF CR | CBF INITIATION + 86F1 OPERATED + CB CLOSE LOCKOUT + DELAYED I/T SEND + 67N-2 OPTD | TRIP BY TC2 | CB CLOSE BLOCK | IN/OUT CHECKED |
| OK | OK | OK |  | OK | OK | OK | OK | OK |
| MICOM P546  ADIED DEF | TRIP INST. | 86F2 OPTD | CBF INIT. |  | Z1/AID1/AID2 TRIP + I/T RECEIVED + DIST/DEF CR | CBF INITIATION + 86F2 OPERATED + CB CLOSE LOCKOUT + 67N-2 CARRIER RECIVED + I/T FAST RECEIVED + 85R1 OPTD + 67N-2 CARRIER SEND + 87L DIST GEN TRIP | TRIP BY TC2 | CB CLOSE BLOCK | IN/OUT CHECKED |
| OK | OK | OK |  | OK | OK | OK | OK | OK |

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| Protection Operated | Protection Panel Indication | | | Phase  Segregation | LEDs’ on Relay | SAS HMI Alarm | CB  Operation | | IN/OUT |
| MICOM P546  DIRECT I/T  86CBF (14,16) |  |  |  |  |  | FPSM DTT SEND | TRIP BY TC2 | CB CLOSE BLOCK | IN/OUT CHECKED |
|  |  |  |  |  | OK | OK | OK | OK |
| MICOM P546  86B (10,12) |  |  |  |  |  | 86B LOCKOUT OPERATED | TRIP BY TC2 | CB CLOSE BLOCK | IN/OUT CHECKED |
|  |  |  |  |  | OK | OK | OK | OK |
| MICOM P546  CBF TRIP |  |  |  |  | CBF TRIP | CBF INITIATION + CBF LOCKOUT OPERATED  + FPSM DTT DEND | TRIP BY TC2 | CB CLOSE BLOCK | IN/OUT CHECKED |
|  |  |  |  | OK | OK | OK | OK | OK |