|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Protection Operated | Protection Panel Indication | PhaseSegregation | LEDs’ on Relay | SAS HMI Alarm | CBOperation | IN/OUT |
| MICOM P64387T Diff | TRIP INST. | 86T2 OPTD | 94T2OPTD | HVCBF INIT | LVCBF INIT | R – Y – B | R- PH TRIP + Y-PH TRIP + B-PH TRIP + DIFF TRIP | 86T2 OPTD + 94T2 OPTD + DIFF OPTD +LV CBF-1 INIT. + LV CBF-2 INIT. + HV CBF-1 INIT. + HV CBF-2 INIT. + CB CLOSE LOCKOUT + ACSE INITIATION | TRIP BY TC2 | HV CB CLOSE BLK | LV CB CLOSE BLK | IN/OUT CHECKED |
| OK | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK |
| MICOM P643REF HV | TRIP INST. | 86T2 OPTD | 94T2OPTD | HVCBF INIT | LVCBF INIT | R – Y – B | REF HV TRIP | HV REF 64NP-2 OPTD + 86T2 OPTD + 94T2 OPTD + LV CBF-1 INIT. + LV CBF-2 INIT. + HV CBF-1 INIT. + HV CBF-2 INIT. + CB CLOSE LOCKOUT + ACSE INITIATION | TRIP BY TC2 | HV CB CLOSE BLK | LV CB CLOSE BLK | IN/OUT CHECKED |
| OK | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK |
| MICOM P643REF LV | TRIP INST. | 86T2 OPTD | 94T2OPTD | HVCBF INIT | LVCBF INIT | R – Y – B | REF LV TRIP | LV REF 64NS-2 OPTD + 86T2 OPTD + 94T2 OPTD + LV CBF-1 INIT. + LV CBF-2 INIT. + HV CBF-1 INIT. + HV CBF-2 INIT. + CB CLOSE LOCKOUT + ACSE INITIATION | TRIP BY TC2 | HV CB CLOSE BLK | LV CB CLOSE BLK | IN/OUT CHECKED |
| OK | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK |
| MICOM P643OC HV | TRIP DELAYED | 86T2 OPTD | 94T2OPTD | HVCBF INIT | LVCBF INIT | R – Y – B | R- PH TRIP + Y-PH TRIP + B-PH TRIP + 51 HV TRIP | 86T2 OPTD + 94T2 OPTD + HV 51-2 OPTD +LV CBF-1 INIT. + LV CBF-2 INIT. + HV CBF-1 INIT. + HV CBF-2 INIT. + CB CLOSE LOCKOUT  | TRIP BY TC2 | HV CB CLOSE BLK | LV CB CLOSE BLK | IN/OUT CHECKED |
| OK | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK |
| MICOM P643OC LV | TRIP DELAYED |  | 94T2OPTD |  | LVCBF INIT | R – Y – B | R- PH TRIP + Y-PH TRIP + B-PH TRIP + 51 LV TRIP | 86T2 OPTD + 94T2 OPTD + LV 51-2 OPTD +LV CBF-1 INIT. + LV CBF-2 INIT. + + CB CLOSE LOCKOUT | TRIP BY TC2 | HV CB CLOSE BLK | LV CB CLOSE BLK | IN/OUT CHECKED |
| OK |  | OK |  | OK | OK | OK | OK | OK | OK | OK | OK |

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| --- | --- | --- | --- | --- | --- | --- |
| Protection Operated | Protection Panel Indication | PhaseSegregation | LEDs’ on Relay | SAS HMI Alarm | CBOperation | IN/OUT |
| MICOM P643EF HV | TRIP DELAYED | 86T2 OPTD | 94T2OPTD | HVCBF INIT | LVCBF INIT |  | 51N HV TRIP | 86T2 OPTD + 94T2 OPTD + HV 51N-2 OPTD + LV CBF-1 INIT. + LV CBF-2 INIT. + HV CBF-1 INIT. + HV CBF-2 INIT. + CB CLOSE LOCKOUT | TRIP BY TC2 | HV CB CLOSE BLK | LV CB CLOSE BLK | IN/OUT CHECKED |
| OK | OK | OK | OK | OK |  | OK | OK | OK | OK | OK | OK |
| MICOM P643EF LV | TRIP DELAYED |  | 94T2OPTD |  | LVCBF INIT |  | 51N LV TRIP | 86T2 OPTD + 94T2 OPTD + LV 51N-2 OPTD + LV CBF-1 INIT. + LV CBF-2 INIT. +  | TRIP BY TC2 | HV CB CLOSE BLK | LV CB CLOSE BLK | IN/OUT CHECKED |
| OK |  | OK |  | OK |  | OK | OK | OK | OK | OK | OK |
| MICOM P643CBF HV |  |  |  | HVCBF INIT |  |  | CBF HV TRIP | HV CBF-1 INIT. + HV CBF-2 INIT. + HV CBF LOCKOUT OPTD | TRIP BY TC2 | HV CB CLOSE BLK | LV CB CLOSE BLK | IN/OUT CHECKED |
|  |  |  | OK |  |  | OK | OK | OK | OK | OK | OK |
| MICOM P643CBF LV | TRIP DELAYED | 86T2 OPTD | 94T2OPTD |  | LVCBF INIT |  | CBF LV TRIP | LV CBF-1 INIT. + LV CBF-2 INIT. + HV CBF-1 INIT. + HV CBF-2 INIT. + LV CBF LOCKOUT OPTD + CB CLOSE LOCKOUT | TRIP BY TC2 | HV CB CLOSE BLK | LV CB CLOSE BLK | IN/OUT CHECKED |
| OK | OK | OK |  | OK |  | OK | OK | OK | OK | OK | OK |
| MICOM P643N. ALARM |  |  |  |  |  |  | NEUTRAL ALARM | NEUTRAL ALARM | TRIP BY TC2 | HV CB CLOSE BLK | LV CB CLOSE BLK | IN/OUT CHECKED |
|  |  |  |  |  |  | OK | OK | OK | OK | OK | OK |
| Protection Operated | Protection Panel Indication | PhaseSegregation | LEDs’ on Relay | SAS HMI Alarm | CBOperation | IN/OUT |
| MICOM P643SBEF | TRIP DELAYED |  | 94T2OPTD |  | LVCBF INIT |  | SBEF TRIP | SBEF TRIP + 94T2 OPTD + LV CBF-1 INIT.+ LV CBF-2 INIT. | TRIP BY TC2 |  |  | IN/OUT CHECKED |
| OK |  | OK |  | OK |  | OK | OK | OK |  |  | OK |