










| DEVICES   | EXPLANATION   |
|---|---|
| 87L   | LINE CURRENT DIFFERENTIAL RELAY   |
| 21, 21N   | DISTANCE TIME-STEP PHASE AND GROUND DISTANCE RELAY  |
| 67, 67N   | DIRECTIONAL PHASE AND GROUND OVERCURRENT RELAY  |
| 27,59   | UNDER/OVER VOLTAGE RELAYS   |
| 25  | SYNCHROCHECK RELAY  |
| 79  | AUTOMATIC RECLOSING RELAY   |
| 50BF  | BREAKER FAILURE RELAY   |
| 50<br>51  | NON-DIRECTIONAL INSTANTANEOUS AND TIME PHASE OVERCURRENT RELAY  |
| 50N<br>51N  | NON-DIRECTIONAL INSTANTANEOUS AND TIME GROUND OVERCURRENT RELAY   |
| 51GB  | NON-DIRECTIONAL GROUND BACKUP OVERCURRENT RELAY   |
| 87T   | TRANSFORMER DIFFERENTIAL RELAY  |
| 87REF   | TRANSFORMER RESTRICTED EARTH FAULT RELAY<br>THIS RELAY SHALL BE INCORPORATED IN THE<br>TRANSFORMER DIFFERENTIAL RELAY (87T) |
| 90  | AUTOMATIC VOLTAGE REGULATOR   |
| 87B1, 87B2  | BUS DIFFERENTIAL RELAYS - LOW IMPEDANCE TYPE  |
| 95B1<br>95B2  | BUS BAR SUPERVISION RELAY FOR BUSWIRE<br>SUPERVISION FOR 87B1 AND 87B2  |
| 81  | UNDER FREQUENCY RELAY   |
| 60  | CAPACITOR CURRENT UNBALANCE SENSING RELAY   |
| Q   | POWER FACTOR CONTROLLER   |
| DPM   | DIGITAL POWER METER   |
| DIM   | DISTRIBUTED I/O MODULE (PROVIDED IN CSCS)   |
| V METER   | DIGITAL VOLTMETER   |
| SS  | SYNCHRONIZING SWITCH, 3-POSITION, AUTO-OFF-MAN  |
| L   | SYNCHRONIZING LAMP  |
| V   | VOLTMETER   |
| F   | FREQUENCY METER   |
| S   | SYNCHROSCOPE  |
| LL  | LINE INDICATING LAMP  |
|  | CURRENT TEST SWITCH   |
|  | POTENTIAL TEST SWITCH   |
|  | LOCATED IN THE SWITCHYARD JUNCTION BOX  |
|  | LOCATED IN THE CONTROL AND RELAY BOARD  |
|  | LOCATED IN THE 33 kV SWITCHGEAR JUNCTION BOX  |
|  | LOCATED IN 33 kV SWITCHGEAR CONTROL PROTECTIVE CIRCUITS   |
|  | WYE CONNECTED CT OF SECONDARY WINDING   |
|  | DELTA CONNECTED CT OF SECONDARY WINDING (IF ANY)  |
|  | TRANSFORMER BUSHING CT OF SECONDARY WINDING,<br>WYE CONNECTED FOR PHASE OR NEUTRAL  |