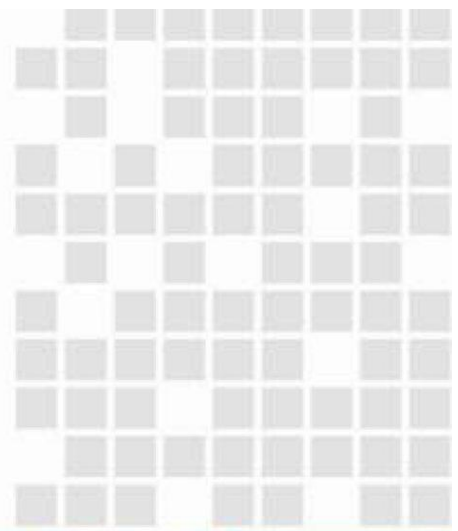
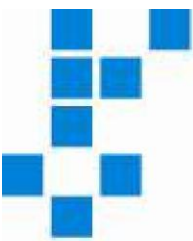
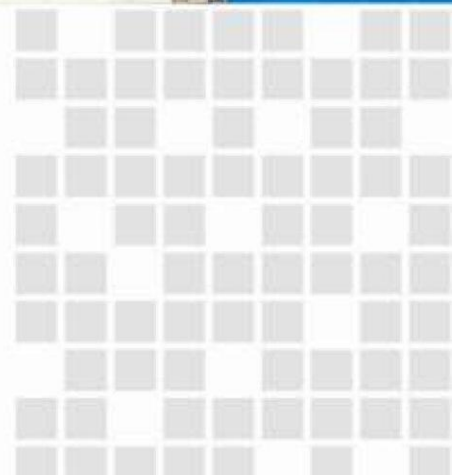




DISCONNECTORS

Faraday  
ELECTRICALS





**We, FARADAY ELECTRICALS PVT LTD**

Manufacturer of Isolators up to 420 KV RATING  
HAVING WORKS IN JAIPUR RAJASTHAN WE  
HAVE MORE THAN 25 YEARS EXPERIENCE TO  
DESIGN MANUFACTURE AND SUPPLY OF  
VARIOUS TYPES AND RATING OF ISOLATORS AT  
OUR WORKS WE HAVE DEVELOPED COMPLETE  
MANUFACTURING FACILITIES WITHIN HOUSE  
INCLUDING COMPLETE 7 TANK PROCESS FOR  
GALVANIZING JOBS AND HAVING ADEQUATE  
ELECTRICAL/MECHANICAL TESTING FACILITIES  
AS REQUIRED FOR THESE ISOLATORS  
MANUFACTURED BY US WE ARE APPROVED  
VENDER / SUPPLIER OF VARIOUS SEB'S /EPC  
CONTRACTORS OR OTHER POWER UTILITIES

**Type and application**

THE FOLLOWING TYPE OF DISCONNECTORS  
ARE USED IN SUBSTATION DEPENDING ON THE  
SITE SPECIFIC REQUIREMENT.

HORIZONTAL CENTRE BREAK (UPTO 400KV)  
HORIZONTAL DOUBLE BREAK (UPTO 400KV)  
VERTICAL BREAK, A.B. SWITCH (11KV TO 36KV)  
D.O. FUSE (11KV TO 36KV)  
HORN GAP. FUSE (11KV TO 36KV)

**HORIZONTAL CENTER BREAK / HORIZONTAL DOUBLE BREAK**

THESE TYPES OF THE DISCONNECTOR ARE USED IN THE  
NORMAL HEIGHT OF THE BUS TO TRANSFER CURRENT TO THE  
OTHER EQUIPMENT IN THE BAY AND WILL FUNCTION AS NO  
LOAD SWITCH . THIS WILL BE INSTALLED IN INCOMING AND  
OUTGOING SIDES OF THE DISTRIBUTION EQUIPMENT  
ACCORDING TO THE SUBSTATION BAY REQUIREMENT . THIS  
WILL BE OPERATED IN CONJUNCTION WITH THE CIRCUIT  
BREAKER FOR ANY SWITCHING ON/OFF AND MAINTENANCE  
PURPOSE.

EARTHING SWITCHES SHALL BE PROVIDED IN THE  
DISCONNECTORS BASED ON THE REQUIREMENT AND FOR  
EARTHING PURPOSES. THE EARTHING SWITCHES WILL BE  
CLOSED WHEN DISCONNECTOR IS IN OFF CONDITION AND VICE  
VERSA FOR EARTHING THE INDUCED CURRENT AND VOLTAGE  
ON THE BUSBAR WHEN THE CIRCUIT IS OPEN CONDITION /  
MAINTENANCE PURPOSE. THIS ALSO WILL TAKE CARE OF THE  
SHORT CIRCUIT CURRENT WHEN THE MAIN DISCONNECTOR IS  
IN OPEN CONDITION.

THE DISCONNECTOR ARE NORMALLY HORIZONTAL UPRIGHT  
MOUNTED IN CASE TO BRING THE BUS FROM THE GANTRY AND  
TO MEET BUSBAR CONFIGURATION, EITHER UNDER HUNG  
TYPE OR VERTICAL TYPE SHALL BE USED.

## OUR VALUABLE CLIENTS

### TURN KEY CONTRACTORS

### EXPORTS



**KEC**



**Kalputra Power**



**Rudranee Infra**



**L&T**

**Mahaactive**



**NCC**



**RK Electric**



**SIEMENS**



**Shreem Elec Ltd.**



**Shyama Power**



**Schneider Electric**



**Vijai Electrical**



**UB Engg.**



**Tesla Transformer**



ETHIOPIAN ELECTRIC UTILITY



NEPAL ELECTRICITY AUTHORITY



Research Design & Standards Organisation

Zambia Electricity Supply Corporation Limited



### GOVT. UTILITIES



☐ **PGCL**



☐ **AVVNL**



☐ **JDVVNL**



☐ **JVVNL**



☐ **RRVPNL**



☐ **Erstwhile-RSEB**



☐ **BHEL**



☐ **BSEB**



☐ **BSPTCL**



☐ **SBPDCL**



☐ **NBPDC**



☐ **PSTCL**



☐ **PSPCL**



☐ **UPPTCL**



☐ **PSEB**



**CSPTCL**



**CSEB**



**GETCO**



**HPSEBL**



**HVPNL**



**JSEB**



**KSEB**



**MPMKVVCL**



**MPPKVVCL**



**MPPTCL**



**MSEB**



**MSEDCL**



**MSETCL**



**NHPC**



**NTPC**



**TNEB**

## OUTDOOR OFF LOAD DISCONNECTORS

### CENTRE BREAK DISCONNECTORS(SERIES RC)

- VERY LOW OPERATING TORQUE.
- SELF WIPING CONTACTS
- SIMULTANEOUS OPERATION OF 3 POLES BY SINGLE OPERATING MECHANISM UPTO 420 KV.
- INDIVIDUAL POLE OPERATION FOR 420 KV (IF REQUIRED)
- FULLY TYPE TESTED AS PER IS 9921
- STRUCTURE TO SUIT REQUIREMENTS.

1. Horizontal Centre Break (HCB) Isolator.



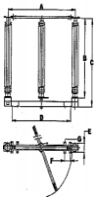
| MAIN DIMENSION (MM) |      |      |                                                                                     | RATED        | RATED       | RATED SHORT       | RATED PEAK                 | POWER FRQ.                                |                       | LIGHTNING IMPULSE                          |            | SWITCH IMPULSE                             |           |
|---------------------|------|------|-------------------------------------------------------------------------------------|--------------|-------------|-------------------|----------------------------|-------------------------------------------|-----------------------|--------------------------------------------|------------|--------------------------------------------|-----------|
| A                   | B    | C    |  | VOLTAGE (kV) | CURRENT (A) | TIME CURRENT (kV) | SHORT CIRCUIT CURRENT (kV) | WITH STAND VOLTAGE 50Hz. (1 Min) TO EARTH | ACROSS ISOLATING (kV) | WITH STAND VOLTAGE 50Hz. (1.25/50 mS) (kV) |            | WITH STAND VOLTAGE 50Hz. (250/2500mS) (kV) |           |
| 700                 | 1000 | 450  |                                                                                     | 24           | 1500        | 29                | 62.5                       | 275                                       | 315                   | 650                                        | 750        |                                            |           |
| 1100                | 1400 | 800  |                                                                                     | 245          | 2000        | 38                | 100                        | 460                                       | 530                   | 1050                                       | 1200       |                                            |           |
| 1700                | 1757 | 1200 |                                                                                     | 420          | 3150        | 38                | 125                        | 520                                       | 610                   | 1425                                       | 1425(+240) | 1050                                       | 900(+345) |
| 1700                | 2125 | 1200 |                                                                                     | 420          | 3150        | 72                | 125                        | 520                                       | 610                   | 1425                                       | 1425(+240) | 1050                                       | 900(+345) |
| 1800                | 2400 | 1200 |                                                                                     | 420          | 3150        | 123               | 125                        | 520                                       | 610                   | 1425                                       | 1425(+240) | 1050                                       | 900(+345) |
| 1800                | 2400 | 1200 |                                                                                     | 420          | 3150        | 145               | 125                        | 520                                       | 610                   | 1425                                       | 1425(+240) | 1050                                       | 900(+345) |
| 2600                | 2861 | 2000 |                                                                                     | 420          | 3150        | 50                | 125                        | 520                                       | 610                   | 1425                                       | 1425(+240) | 1050                                       | 900(+345) |
| 4877                | 4837 | 4000 |                                                                                     | 420          | 3150        | 50                | 125                        | 520                                       | 610                   | 1425                                       | 1425(+240) | 1050                                       | 900(+345) |

2. Double Break Isolator (DBR).



**DOUBLE BREAK DISCONNECTORS (SERIES RD)**

- TURN AND TWIST CONTACTS.
- VERTICAL / HORIZONTAL TERMINAL TAKE OFF
- FULLY TYPE TESTED.
- SIMULTANEOUS OPERATION OF 3 POLES BY SINGLE OPERATING MECHANISM UPTO 420 KV.
- INDIVIDUAL POLE OPERATION FOR 420 KV (IF REQUIRED).
- FULLY TYPE TESTED AS PER IS9921
- STRUCTURE TO SUIT REQUIREMENTS.

| MAIN DIMENSION (MM) |      |      |                                                                                    | RATED   | RATED   | RATED SHORT  | RATED PEAK            | POWER FRQ.                                                  |     | LIGHTNING IMPULSE                    |      | SWITCH IMPULSE                       |  |
|---------------------|------|------|------------------------------------------------------------------------------------|---------|---------|--------------|-----------------------|-------------------------------------------------------------|-----|--------------------------------------|------|--------------------------------------|--|
| A                   | B    | C    |  | VOLTAGE | CURRENT | TIME CURRENT | SHORT CIRCUIT CURRENT | WITH STAND VOLTAGE 50Hz. (1 Min) TO EARTH ACCROSS ISOLATING |     | WITH STAND VOLTAGE 50Hz.(1.25/50 mS) |      | WITH STAND VOLTAGE 50Hz.(250/2500mS) |  |
| 750                 | 865  | 500  |                                                                                    | 11      | 800     | 25           | 62.5                  | 28                                                          | 32  | 70                                   | 80   |                                      |  |
| 2130                | 2112 | 1500 |                                                                                    | 36      | 1600    | 25           | 62.5                  | 70                                                          | 80  | 170                                  | 195  |                                      |  |
| 3200                | 2848 | 2500 |                                                                                    | 145     | 2000    | 40           | 100                   | 275                                                         | 315 | 650                                  | 750  |                                      |  |
|                     |      |      |                                                                                    | 245     | 2000    | 40           | 100                   | 460                                                         | 530 | 1050                                 | 1200 |                                      |  |



**DISCONNECTORS COME WITH TWO TYPES OF OPERATING MECHANISMS DEPENDING ON THE CUSTOMER REQUIREMENT.**

### **MOTOR OPERATING MECHANISM**

- MOTOR COUPLED WITH A REDUCTION WORM GEAR TO INCREASE THE OUTPUT TORQUE.
- ELECTRICAL INTERLOCK BETWEEN BREAKER AND DISCONNECTOR.
- ROBUST MECHANICAL INTERLOCK BETWEEN DISCONNECTOR AND EARTH SWITCH.
- LOCAL / REMOTE CONTROL FACILITY.
- SINGLE PHASE PREVENTER AND OVERLOAD PROTECTION DEVICE.
- POLE DISCREPANCY RELAYS IN EMERGENCY
- LOCAL MANUAL OPERATION IN EMERGENCY.
- SNAP ACTION AUXILIARY SWITCH WITH SILVER - PLATED CONTACTS FOR CUSTOMER'S USE .
- PROVISION FOR PADLOCK.
- MOTOR RATED FOR 380/415 VOLTS 3 PHASE AC OR 220 / 110 V DC TO MEET CUSTOMER'S REQUIREMENT.

### **MANUAL OPERATING MECHANISM**

- HAND LEVER OPERATED OR THROUGH REDUCTION GEAR DEPENDING ON CUSTOMER'S REQUIREMENT.
- ELECTRO-MECHANICAL INTERLOCK.
- PROVISION FOR PADLOCK
- SNAP ACTION AUXILIARY CONTACTS FOR CUSTOMER'S USE.

### **ENCLOSURE AND INGRESS PROTECTION**

- ENCLOSURE FOR BOTH MOTOR AND MANUAL OPERATING MECHANISM IS MADE OF ALUMINIUM OR SHEET STEEL AS PER CUSTOMER'S REQUIREMENT. IN CASE OF SHEET STEEL, BOXES ARE PAINTED WITH LIQUID PAINT OR POWDER COATED AFTER AN ELABORATE PRETREATMENT PROCESS AND PHOSPHATING.
- BOTH BOXES CONFORM TO IP-67 DUTY OF INGRESS PROTECTION WITH SPECIAL DOOR SEALING OF EXTRUDED EPDM RUBBER GASKET.



## **M/s. FARADAY ELECTRICALS PVT LTD**

Unit 1 :: H-1016 ROAD NO. 14 VKI AREA JAIPUR PIN - 302013  
Unit 2 :: E-866-A, ROAD NO. 14 VKI AREA JAIPUR PIN - 302013

EMAIL : [SALES@EEENTERPRISE.IN](mailto:SALES@EEENTERPRISE.IN)

WEBSITE : [EEENTERPRISE.IN](http://EEENTERPRISE.IN)

MOBILE : MARKETING : 91-93522-90987 AND WA 93522-90987