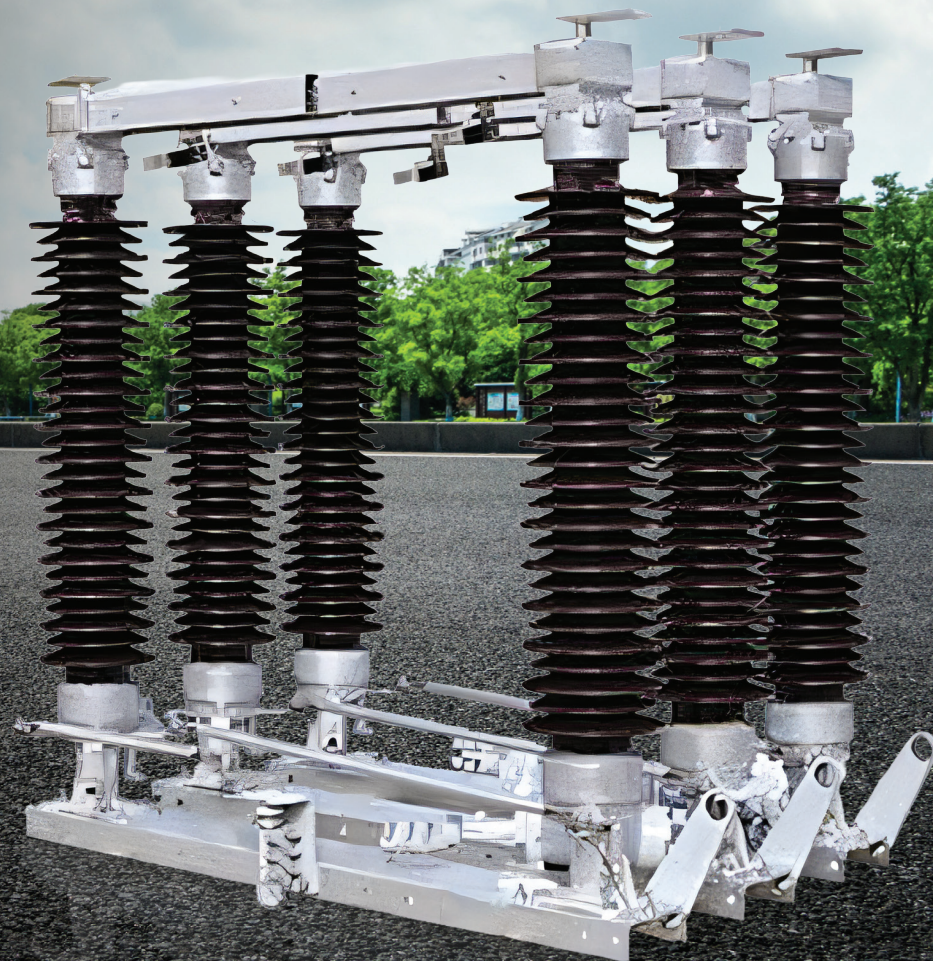


**K&BN**  
General Electric Solution



**KDC 132KV CENTER  
BREAK EARTHING SWITCH**

**CHARGING SOLUTIONS POWERING PROGRESS**



## ➤ Disconnecter Features

The KDC disconnecter consists of three poles that can be operated simultaneously using either a single operating mechanism with mechanical linkages between the poles or individual operating mechanisms for each pole. Known for its versatility and durability, the KDC has been deployed worldwide in diverse configurations and extreme environmental conditions, ranging from -50°C to +50°C, including icy, desert, and highly seismic regions. Its center-break design, featuring just two insulators per pole, offers a cost-effective solution for general disconnecting applications. The horizontal motion and optimized contact design minimize actuation torque, ensuring smooth and rapid operation. The insulating columns meet IEC standards, with custom heights and creepage distances available upon request. To accommodate various substation layouts, the poles can be installed traditionally (horizontally), wall-mounted, or even upside down. Like all our models, the KDC adheres to the latest international standards (IEC) but can also be tailored to meet specific customer requirements.

## ➤ Construction Details

| Component             | Specification                              |
|-----------------------|--------------------------------------------|
| Current-carrying arms | Drawn aluminum with silver-plated contacts |
| Rotary contacts       | Finger or flexible strap design            |
| Structural framework  | Hot-dip galvanized steel                   |
| Bearings              | Sealed, lifetime-lubricated                |
| HV terminals          | Copper/aluminum with corona protection     |

## ➤ Quality Assurance:



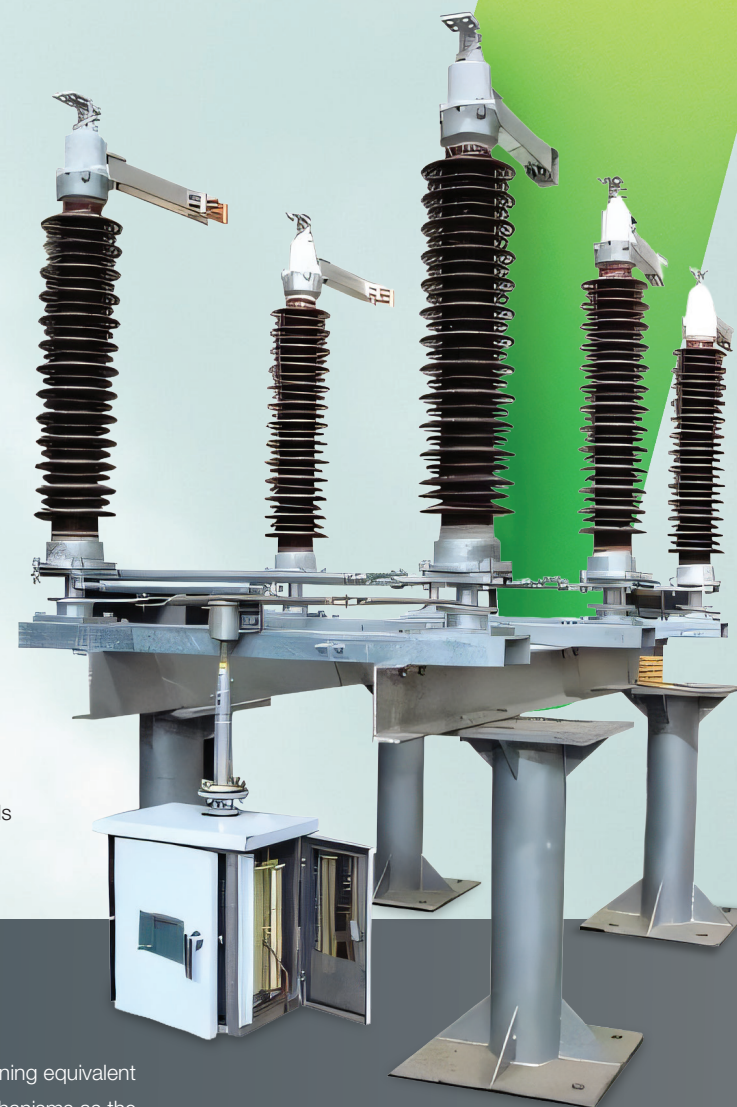
ISO 9001  
certified manufacturing



Type-tested to IEC standards

## ➤ Earthing Switch

The KDC features an integrated earthing switch with grounding blades that can be mounted on one or both sides of the pole, maintaining equivalent short-time current withstand capacity as the main disconnecter. The earthing switch operates using the same manual or electric mechanisms as the disconnecter, available in both single-pole and three-pole configurations. For enhanced safety, it can be electrically and/or mechanically interlocked with the main switching system.





## Construction Features of KDC Disconnect

- The KDC disconnect's robust construction features high-strength aluminum arms with silver-plated copper contacts, available in spring-loaded finger or flexible strap configurations to suit various current ratings. All critical components - including stainless steel contact springs and hardware, copper/aluminum HV terminals, and corona protection shields - are housed within a hot-dip galvanized steel frame for superior corrosion resistance. The maintenance-free design incorporates sealed bearings and follows strict ISO 9001 manufacturing standards, ensuring reliable performance throughout the equipment's service life in demanding electrical applications.

## Ratings and Dimensions

| Rated voltage                             |     | U <sub>r</sub> (kV)               | 72.5      | 123       | 145       | 170       | 245       |            | 300         | 362         | 420         | 550         |
|-------------------------------------------|-----|-----------------------------------|-----------|-----------|-----------|-----------|-----------|------------|-------------|-------------|-------------|-------------|
| Rated power-frequency withstand voltage   | TE  | U <sub>d</sub> (kV)               | 140       | 230       | 275       | 325       | 395       | 460        | 395         | 450         | 520         | 620         |
|                                           | AID | U <sub>d</sub> (kV)               | 160       | 265       | 315       | 375       | 460       | 530        | 435         | 520         | 610         | 800         |
| Rated lightning impulse withstand voltage | TE  | U <sub>p</sub> (kV <sub>p</sub> ) | 325 (IEC) | 550 (IEC) | 650 (IEC) | 750 (IEC) | 950 (IEC) | 1050 (IEC) | 1050 (IEC)  | 1175 (IEC)  | 1425 (IEC)  | 1550 (IEC)  |
|                                           | AID | U <sub>p</sub> (kV <sub>p</sub> ) | 375       | 630       | 750       | 860       | 1050      | 1200       | 1050 (+170) | 1175 (+205) | 1425 (+240) | 1550 (+315) |
| Rated switching impulse withstand voltage | TE  | U <sub>s</sub> (kV <sub>p</sub> ) | -         | -         | -         | -         | -         | -          | 850         | 950         | 1050        | 1175        |
|                                           | AID | U <sub>s</sub> (kV <sub>p</sub> ) | -         | -         | -         | -         | -         | -          | 700 (+245)  | 800 (+295)  | 900 (+345)  | 900 (+450)  |

TE: To Earth  
 AID: Across the Isolating Distance

|                                    |                                   |                                               |
|------------------------------------|-----------------------------------|-----------------------------------------------|
| Rated continuous current           | I <sub>r</sub> (A)                | up to 5000 IEC / (depending on rated voltage) |
| Rated short-time withstand current | I <sub>k</sub> (kA)               | up to 63 / 3s (depending on rated current)    |
| Rated peak withstand current       | I <sub>p</sub> (kA <sub>p</sub> ) | up to 160 (depending on rated current)        |

| Dimensions (mm) | A   | 900   | 1400  | 1600  | 1800  | 2400  | 2400  | 2900  | 3200  | 4000  | 4500  |
|-----------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| B               | IEC | 770   | 1220  | 1500  | 1700  | 2100  | 2300  | 2300  | 2650  | 3350  | 3650  |
| C               | IEC | 940   | 1390  | 1670  | 1870  | 2370  | 2570  | 2570  | 2920  | 3630  | 3930  |
| D               |     | 515   | 775   | 875   | 975   | 1335  | 1335  | 1585  | 1735  | 2200  | 2450  |
| E               |     | 150   | 150   | 150   | 150   | 270   | 270   | 270   | 270   | 270   | 270   |
| F               |     | -     | -     | -     | -     | 270   | 270   | 270   | 270   | 270   | 270   |
| G               |     | 1050  | 1550  | 1750  | 1950  | 2200  | 2200  | 2700  | 3470  | 4270  | 4770  |
| H               |     | 4 ø18 | 4 ø18 | 4 ø18 | 4 ø18 | 8 ø18 | 8 ø18 | 8 ø18 | 8 ø18 | 8 ø18 | 8 ø18 |







## KDC 132KV CENTER BREAK EARTHING SWITCH

CHARGING SOLUTIONS **POWERING PROGRESS**

### ▶ KDC Operating Principle

The disconnecter's base frame supports two rotating insulators that drive the conductive arms (B and C). These arms pivot synchronously via a linkage bar, moving from open to closed position where they meet at the center, establishing main contact D. HV terminals (E) are standard, with custom options available. The optimized design ensures smooth, reliable operation with minimal wear.

### ▶ Reliability & Maintenance

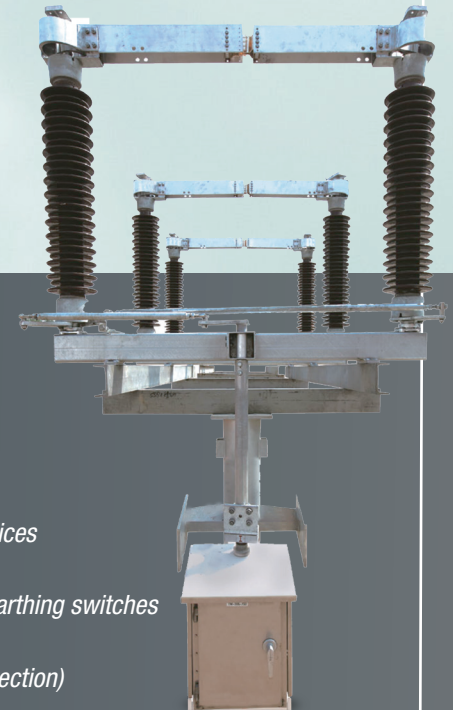
The KDC disconnecter delivers exceptional long-term performance through self-maintaining features:

- ✓ *Self-lubricating hinges and self-cleaning contacts minimize wear*
- ✓ *Corrosion-resistant materials enhance durability*
- ✓ *Mechanical endurance surpasses IEC standards*

### ▶ Optional Accessories

Customize your KDC with:

- ✓ *IEC 62271-102 (B) compliant bus-transfer switching devices*
- ✓ *IEC 62271-102 (C) rated induced current switching for earthing switches*
- ✓ *Ice shields for extreme winter conditions (20mm ice protection)*







**KDC 132KV CENTER  
BREAK EARTHING SWITCH**

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