

'SRIWIN' OUTDOOR, MAGNETIC ACTUATOR OPERATED, VACUUM CIRCUIT BREAKER

12kV, 1250A, 26.3kA & 36kV, 1600A, 26.3kA

SRIWIN ELECTRIC, an ISO 9001-2015 certified company, offers a unique, space-saving, magnetic actuator operated, outdoor, Pole/Structure mounted, three-pole, gang-operated Vacuum Circuit Breakers, that are a perfect replacement for conventional Porcelain-clad Circuit Breakers. These VCBs are available in 12kV & 36kV Voltage Ratings. The application areas include Urban & Rural, Primary & Secondary Power Distribution Segments.



12kV VCB with in-built CT



36kV VCB with in-built CT

SALIENT FEATURES:

- Unique Single-box Solution
- Package consists of:
 - 3-Pole Gang-operated, Vacuum Circuit Breaker
 - Epoxy Resin Cast, Bushing Embedded, Current Transformer
 - Integral Control Panel
 - Breaker Control Unit
 - Numerical Relay
 - Tri-vector Metering (Optional)
 - Lightning Arrestor (Optional)
- Magnetic Actuator Operating Mechanism
- 20,000 Mechanical Operations
- Maintenance-free
- Hydrophobic Cyclo-aliphatic Epoxy Resin Cast (HCEP) Bushings
- Terminal Connector to suit OH Conductor/Cable Termination
- Mechanical Trip/Lock-out facility
- Truly space-saving
- Suitable for tough outdoor environment
- Suitable for Single Pole/Double Pole/Structure Mounting
- Reduced Installation Time
- Long electrical & mechanical life
- Suitable for frequent switching
- Suitable for unmanned sub-stations/locations
- Less Downtime
- Reduced Lifecycle Cost
- Reduced total cost of ownership
- Increased availability
- Increased revenue
- No hazards associated with oil-filled CTs
- Choice of integral control transformer
- Comprehensive Protection Relay
- Optional Multifunction Meter
- Operation not dependant on aux. supply
- Suitable for Multi-shot Rapid Auto Reclosing/Sectionalising
- SCADA/DMS compatible
(can be operated and monitored through mobile)

BREAKER CONTROL UNIT:

- Micro-controller based
- In-built SMPS for capacitor charging
- High Capacity MOSFET for Switching
- Operates on a wide range of aux. supply
- In-built Trip Circuit Supervision
- In-built aux. Under-voltage Supervision
- In-built High Energy Capacitor Banks for Closing/Tripping
- Pulse Width Modulated Output to Closing/Tripping Coils
- In-built Indications
- In-built breaker failure protection
- In-built Breaker Status Monitoring
- Self-diagnostic
- Optional DI/DO

OPTIONAL ACCESSORIES:

- External PT (Oil-immersed or Dry Type)
- Lightning Arrestor at the Incoming and/or at the Outgoing Side
- Integral/External Dry Type Control Transformer
- Battery Bank & Charger
- Stainless Steel Control Cabinet
- Tariff Meter
- High End Protection Relay
- FRTU
- MODEM
- Solar Radiation Protection Cover in Control Cabinet

GURANTEED TECHNICAL PARTICULARS:

| Parameter | 12kV | 36kV |
|--|-------------------------------------|-------------|
| Rated Voltage (kV) | 12 | 36 |
| Rated Frequency (Hz.) | 50/60 | 50/60 |
| Rated 1-Minute Power Frequency Withstand Voltage (kV) | 28 | 70 |
| Rated Lightning Impulse Withstand Voltage (kVp) | 75 | 170 |
| Rated Current (A) | 1250 | 1600 |
| Rated Short Circuit Breaking Capacity (kA) | 26.3 | 26.3 |
| Rated Short Circuit Making Capacity (kAp) | 65.75 | 65.75 |
| Rated Short Time Withstand Current (kA) | 26.3 | 26.3 |
| Rated Short Time Withstand Duration (sec.) | 3 | 3 |
| Rated Operating Sequence | O-300ms-CO-3min-CO | |
| Closing Time | < 65ms | |
| Tripping Time | < 45ms | |
| Rated Auxiliary Voltage | 24/30/48/110/220V DC/110V AC/240VAC | |
| Rated Aux. Voltage Tolerance | 50% to 110% | |
| Mechanical Life | 20, 000 Operations | |
| Electrical Life at Rated Current | 20, 000 Operations | |
| Electrical Life at 100% Short Circuit Breaking Capacity | 100 Operations | |
| Auxiliary Contact | 4 N.O. + 4 N.C. | |
| Interrupting Medium | Vacuum | |
| Insulation Medium | Solid Dielectric | |
| Operating Mechanism | Magnetic Actuator | |
| Degree of Protection (Switching Unit) | IP 65 | |
| Degree of Protection (Control Cabinet) | IP 65 | |
| Standard | IS/IEC 62271-1/100 | |

**36KV, 1600A, 26.3KA OUTDOOR, MAGNETIC ACTUATOR OPERATED,
VACUUM CIRCUIT BREAKER WITH LOCAL CONTROL PANEL
AND WITH INDOOR TWIN FEEDER CONTROL & RELAY PANEL**



**Note: Product Improvement is a continuous process at SRIWIN ELECTRIC.
Please contact us for latest update on the product**



**SRIWIN
ELECTRIC**
HIGH QUALITY AND INNOVATION

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SCAN QR CODE