

'SRIWIN' AUTO RECLOSERS 12kV, 800A, 20kA & 36kV, 800A, 20kA

'SRIWIN ELECTRIC', an ISO 9001:2015 certified organisation, offers a unique, space-saving, Permanent Magnetic Actuator (PMA) operated, outdoor pole/structure mounted, three-pole, gang-operated, Vacuum Auto Reclosers, that perfectly meet the demanding requirements of modern Medium Voltage Electric Power Distribution System. These reclosers are available in 12 kV & 36 kV voltage ratings. Application areas include Urban & Rural, Primary & Secondary Power Distribution.



SALIENT FEATURES:

- **Unique Single-box Solution**
- **Package consists of:**
 - 3 pole, gang operated Vacuum Auto Recloser
 - Bushing Embedded Epoxy Resin Cast, Dry Type, Current Transformers
 - Integral Control Cabinet
 - PMA Controller
 - In-built battery & battery charger
- **Permanent Magnetic Actuator (PMA) Operating Mechanism**
- **20,000 Mechanical Operations**
- **Maintenance-free**
- **Hydrophobic Cycloaliphatic Epoxy (HCEP) Resin Bushings**
- **Terminal Connector to suit Overhead Conductor/Cable**
- **Mechanical Trip & Lock-out facility**
- **Truly space-saving**
- **Suitable for rigorous outdoor environment**
- **Suitable for Single-pole or Double-pole or Structure mounting**
- **Reduced Installation Time**
- **Long Electrical & Mechanical Life**
- **Suitable for frequent switching**
- **Suitable for unmanned sub-stations/locations**
- **Suitable for Urban/Rural Power Distribution**
- **Suitable for Primary/Secondary Power Distribution**
- **Less Downtime**
- **Reduced Lifecycle cost**
- **Reduced Total Cost of Ownership**
- **Increased Availability**
- **Increased Revenue**
- **Hazards of Oil-filled CTs avoided**
- **Suitable for multi-shot rapid auto-reclosing**
- **Can be used as a Sectionaliser**
- **Can be used as a Feeder Breaker**
- **SCADA/DMS compatible**

COMPREHENSIVE AUTO RECLOSER RELAY:

PROTECTION FEATURES:

- 3 stage Overcurrent Protection (Directional/Non-Directional)
- Fast & Delayed Trip Curves for Phase Fault /Earth Fault
- 50 types of Trip Curves (IEC, ANSI, Recloser Curves, Customised Curves)
- Definite Time Element
- Negative Sequence Overcurrent Protection
- Sensitive Earthfault (SEF) Protection
- Cold Load Pick-up (CLPU) Protection
- Inrush Restraint Element
- Sequence Coordination
- Broken Conductor Protection
- Check Synchronising Element
- Auto Reclosing (5 shots)
- 4 setting groups
- Automatic Setting Group Change depending upon power flow direction

CONTROL FUNCTIONS:

- Local/Remote
- Open/Close
- Recloser ON/OFF
- Protection ON/OFF
- Earth Fault Protection ON/OFF
- Reset
- Battery Test

STATUS INDICATIONS:

- Recloser Status: ON/OFF
- Control Position: Local/Remote
- Fault Indication (R, Y, B, N, SEF, Directional)
- Broken Conductor
- Synchronisation Fail
- Hot Line
- Inrush Detected
- Mechanical Lock-out
- Loss of AC Aux. Power
- Control Cabinet Door Open
- Battery overcharged
- Battery Charger Error
- System Error (self-diagnosis)



MEASUREMENT FUNCTIONS:

- Source Side Voltage
- Load Side Voltage (Optional)
- Current
- Active Power (kW)
- Reactive Power (kVAR)
- Apparent Power (kVA)
- Active Energy (kWh)
- Reactive Energy (kVARh)
- Power Factor
- Frequency
- Phase Angle
- Harmonics (upto 32nd)
- Total Harmonic Distortion (THD)

COUNTER:

- FRTU Restart Counter
- Recloser Trip Counter
- Fault Counter (R, Y, B, N, Total)

RECORDER:

- Over 20,000 event records
- Waveform Record
- Fault Recorder (upto 4 faults)
- Maximum Demand – Current
- Maximum Demand – Power

COMMUNICATION:

- SCADA: DNP 3.0, IEC 60870-5-101 IEC 60870-5-104 (Optional)
- Setting: MODBUS

OPTIONAL ACCESSORIES:

- External PT
- Lightning Arrestors (on the Incoming Side)
- Lightning Arrestors (on the Outgoing Side)
- Lightning Arrestors (Both Sides)
- Integral/External Control Transformer
- Tariff Meter • External FRTU
- MODEM
- Auto Reclosers with 15 kV & 38 kV (60 Hz.)
IEEE/ANSI Ratings - Optional

PMA CONTROLLER:

- 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 Self- diagnosis
- In-built high energy Capacitor Banks for Closing/Tripping
- Pulse Width Modulated (PWM) output to Close/ Trip Coils
- Optional Output Contacts for Trip Circuit Healthy & PMA Controller Healthy



'SRIWIN' AUTO RECLOSERS

GUARANTEED TECHNICAL PARTICULARS:

Parameter	12kV	36kV
Rated Voltage (kV)	12	36
Rated Frequency (Hz.)	50/60	50/60
Rated One Minute Power Frequency Withstand Voltage (wet) (kV)	28	70
Rated Lightning Impulse Withstand Voltage (1.2/50 μ s) (kVp)	75	170
Rated Current (A)	800	800
Rated Short Circuit Breaking Capacity (kA)	20	20
Rated Short Circuit Making Capacity (kAp)	50	50
Rated Short Time Withstand Current for 3Sec. (kA)	20	20
Rated Operating Sequence	O-500ms-CO-2s-CO-5s-CO	
Closing Time	< 65ms	
Opening Time	< 45ms	
Mechanical Life	20000 Operations	
Electrical Life at Rated Current	20000 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	Permanent Magnetic Actuator	
Degree of Protection (Switching Unit)	IP 65	
Degree of Protection (Control Cabinet)	IP 65	
Standard	IS/IEC 62271-111	

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

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SCAN QR CODE