

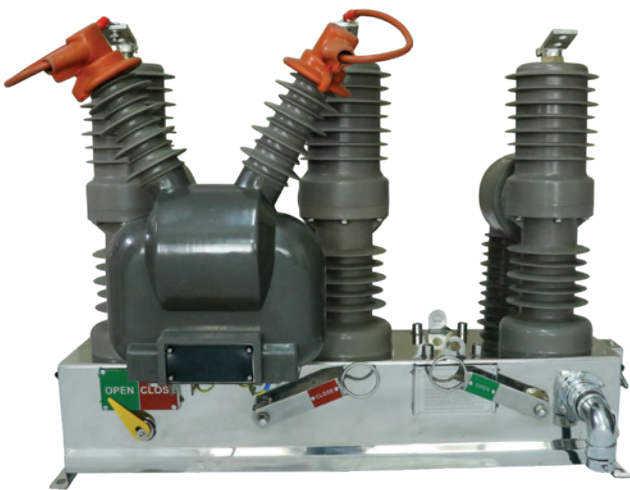


## SAR12-AR25

### POLE MOUNTED AUTOMATIC CIRCUIT RECLOSER

The Automatic Circuit Recloser is essentially a self-contained device with the necessary intelligence to sense fault and interrupt the same and to re-energize the line by reclosing automatically. If the fault is permanent in nature, the recloser looks upon after a preset number of operations, isolating the faulty section from the healthy part of the system.

The purpose of using automatic circuit recloser in a distribution system is to increase its reliability.



#### Salient Features

- Stainless Steel Tank
- In-Built User Configurable Functionality
- In-Built Current & Voltage Sensors
- Vacuum Interrupters Inside Solid Dielectric Poles
- Control Unit with Logic Based Programming
- Magnetic Actuator Operated Mechanism
- Arc Fault Containment
- SF6 Free Design to Reduce Environmental Footprints

#### Application

- Overhead Distribution Lines In Substation Automation
- Distribution Substation
- Smart Grid Applications

## Technical Specifications

Details	Units	SAR12-AR25
Rated Voltage	kV	12
Rated frequency	Hz	50
Rated lightning impulse withstand voltage	kV	75
Rated short-time power frequency withstand voltage(dry)	kV	42
Rated short-time power frequency withstand voltage(humid)	kV	30
Rated current	A	630/1250
Rated short-circuit breaking current	kA	20
Rated short-circuit making current	kA	50
Short time withstand current (3s)	kA	20
Rated operations of short-circuit breaking current interruption	times	30
Power frequency withstand voltage of secondary circuit(1 min)	kV	2
Mechanical life	times	50000
Permanent magnet mechanism control voltage	Vdc	220

## Control Unit

The Control and Communications cubicle provides directional over current, earth fault & Sensitive earth fault relay, auto reclosing relay, instantaneous metering, event log, load profile, remote terminal unit and much more for remote control in a single package. Controller is automatic management unit for single way/multi ways /ring network/two power sourcing ,provided with all voltage and current signals and all functions

Controller supports : wireless (GSM/GPRS/CDMA),Ethernet mode,WIFI, optical fiber,power line carrier,RS232/485,RJ45 and other forms of communication,and can access other station premises equipment (Such as TTU,FTU,DTU,etc.)

The control cubicle has three (3) main Functions:

- 1.Protection - Thermal Overload,Instantaneous over current , Instantaneous sensitive earth fault, Under/over volatge , Cold load pickup
- 2.Supervision - CT supervision ,PT supervision
- 3.Control - Auto reclose ,Lockout,CB control



- There is a continuous effort at Stelmec to keep abreast of latest technology in line with customer requirements and hence the product specifications are subject to change.
- Products described in this catalogue are manufactured and supplied according to the Certified Management System ISO 9001:2015.