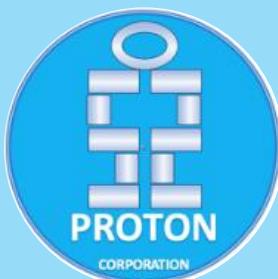


Protection and Control Panels for HV and MV Substations



Proton Corporation

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Reg Office :

Arab Bank Building. Port Saeed, Dubai, United Arab Emirates

Works :

Umm al Quwain Industrial Area,
4 Nos , Sanaiya
United Arab Emirates



Proton Corporation

Proton designs protection and control panels to cater for various applications according to customer requirements, using latest technology relays which are supplied by Schneider Electric, Siemens and ABB. Our panel designs take numerous factors into considerations such as: ambient conditions, site installation and personnel safety without compromising the ease of operation, security, maintenance and commissioning.



Figure 1 - Schematic Design

PROTECTION AND CONTROL DESIGN SOLUTIONS

- Design of protection schemes and systems appropriate to the application.
- Selection of high quality equipment Relays, Annunciators, Test blocks and all wiring ancillaries.
- Relay programming customised to the protection scheme as required.
- Preparation of wiring interface to different switchgear panels and types.
- Schematic drawings & wiring lists using advanced automated CAD software.
- Factory assembly and wiring of designed system.
- System testing to the scheme drawing to verify the functions of equipment, manufacture and design.

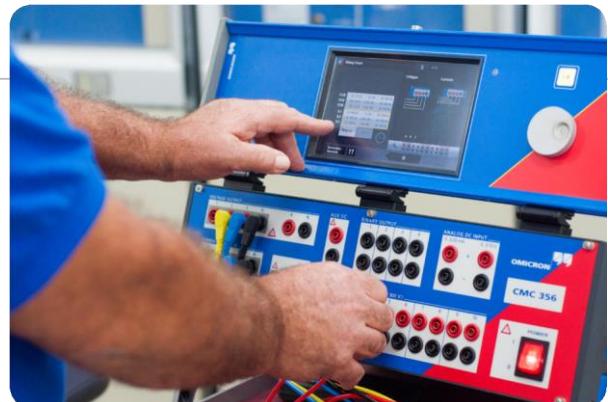
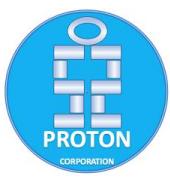


Figure 2 - Protection scheme testing



Figure 3 – Factory Assembly and wiring



ENCLOSURE DESIGN

- Enclosure typical dimensions:
 - 2050 x 800 x 800 mm
 - 1900 x 600 x 600 mm
 - Custom sized enclosures
- Free standing, floor fixing holes provided on bottom frame.
- Hinged front and rear doors, both lockable to prevent access to unauthorized personnel.
- Front access for operation.
- Rear access for cable interface.
- Removable side panels, ventilation if required.
- Various types of mounting plates with custom made cut-outs for different relays and equipment including standard 19" type.
- Bottom cable entry, optional at the top.
- Cable supports and removable gland plates.
- Internal ambient control and lighting including door switch.
- Lifting points available.

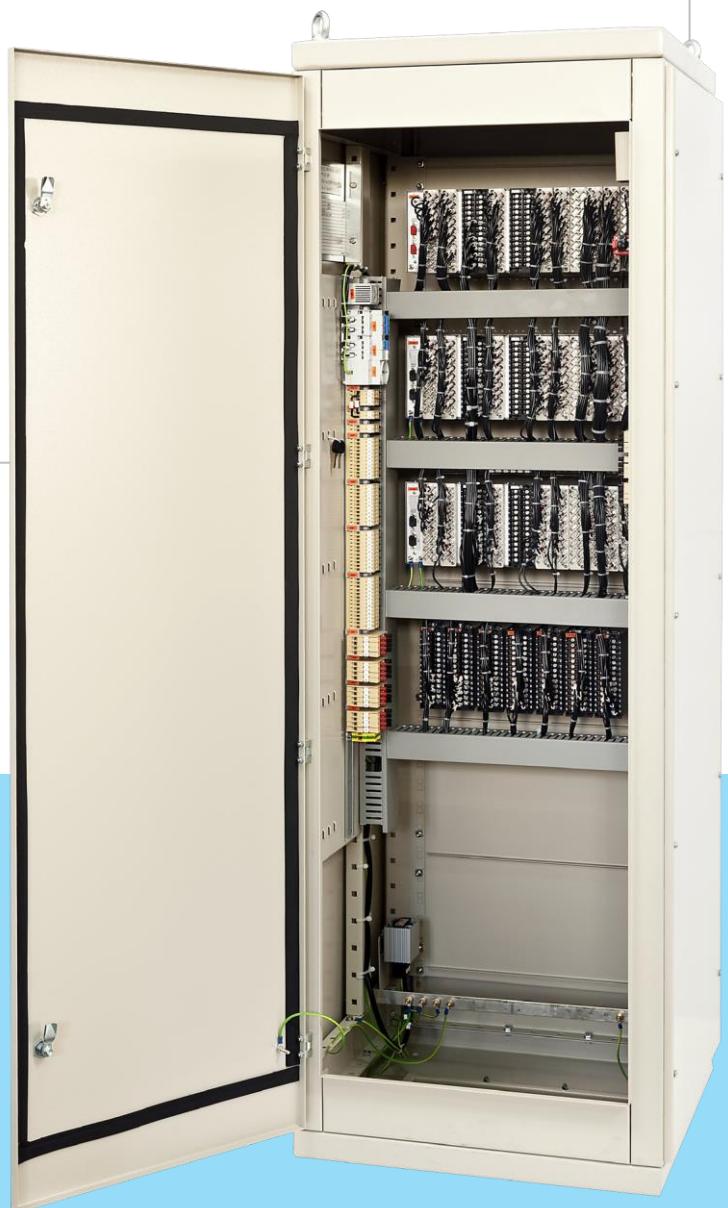
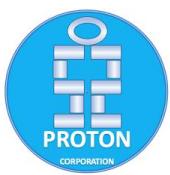


Figure 4 – Customised Enclosures



Proton Corporation

TYPICAL PANEL APPLICATION

LINE FEEDER PANEL

- Distance relay
- Directional Overcurrent & Earth fault relay

TRANSFORMER PANEL

- Differential protection
- Overcurrent & Earth fault relay

OTHER FEATURES INCLUDED

- Power Measurement
- Control of switchgear devices
- Trip Circuit Supervision
- Test Blocks for secondary injection



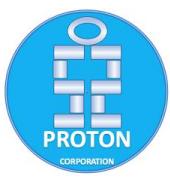
Figure 5 – Feeder panel for 66KV switchgear

BUSBAR PROTECTION PANEL

- Differential busbar protection.
- Fast fault trip (typically 12 or 17 ms).
- Synchronous or Sequential trip.
- Adapted to different busbar configurations.
- Future extension of the busbar supported.
- Can operate with different CT types.
- Programmable scheme logic supported.
- Programmable function keys, hotkeys and tri-colour LEDs.



Figure 6 – Busbar protection panel



AUTOMATIC VOLTAGE REGULATOR

- Measures, Controls and Regulates voltage transformers.
- Modular and Flexible, Design to customer requirements.
- Interfaces to different transformer types.
- Up to 4 control modules in one panel.
- Possibility of parallel operation of transformers.
- Integration on IED networks using IEC 60870-5-103 & IEC 61850



Figure 7 – Automatic voltage regulator



Proton Corporation – Medium Voltage Switchgear Business

VC-V6A, VC-VS6A Comply with Relevant IEC Standards and are Third Party Tested

- IEC 62271-1 Common specifications
- IEC 62271-200 Metal-enclosed switchgear
- IEC 62271-100 Circuit-breakers
- IEC 62271-102 Earthing switch
- IEC 62271-106 Contactors

Safety Feature

- Loss of service continuity: LSC2B
- Partition class: PM
- Internal arc classification: AFLR
- Automatic metallic shutters
- VCB and VCS interlocked with compartment door
- Rear cover interlocked with earthing switch
- Exhaust duct with optional extension pieces



Easy Maintenance and Installation

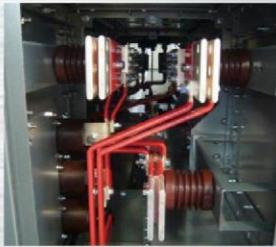
- VCB and VCS does not need to applied a lifter at withdraw out of switchgear
- Separate protection and control on top of VCB and VCS compartment
- Test terminal located on the front of LV panel
- Easy access for the main-cable termination

Components

- VCB is compatible with NE type of Fuji Electric
- Accommodate cast-resin, ring-type CTs for VCB and wound-type CTs for VCS
- The voltage transformer for busbar is draw-out type and can be performed maintenance easily and safety

01 Busbar Compartment

Busbar up to 2,500 A normal current 31.5/40 kA short circuit current Copper busbar, air insulated, epoxy coated 31.5 kA is arc fault withstand



02 Automatic Shutters

- ▶ Individually operated
- ▶ Earthed metal
- ▶ Can be padlock in closed position



03 Earthing Switch

- ▶ Operated from front of switchgear
- ▶ 'Closed/Open' status visible from front circuit breaker window
- ▶ Mechanical interlock option with the cable compartment door



04 Automatic Earthing Switch

Mechanical interlock with the circuit breaker compartment such that:

- ▶ Earth switch cannot be 'Closed' with the circuit breaker in the 'Service' position
- ▶ Circuit breaker can only be moved from 'Test-Disconnected' to 'Service' position when earthing switch is 'Open'



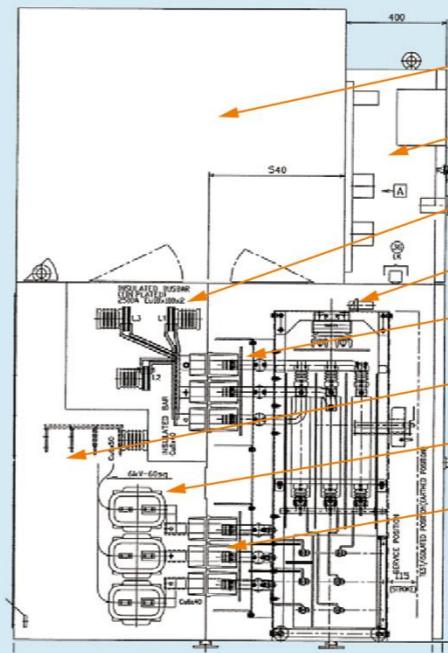
05 Circuit Breaker/Vacuum Contactors Compartment

Circuit breaker racking mechanism

- ▶ Manual circuit breaker/contactor truck racking mechanism
- ▶ Safety interlocks
- ▶ Compartment door is mechanically interlocked with the circuit breaker/contactor truck such that door can only be opened with the truck is in the 'Test-Disconnected' position
- ▶ Breaker secondary contact interlocked with the breaker and can only be removed in the test position
- ▶ Viewing window provides visual indication of the position of the circuit breaker/contactor truck



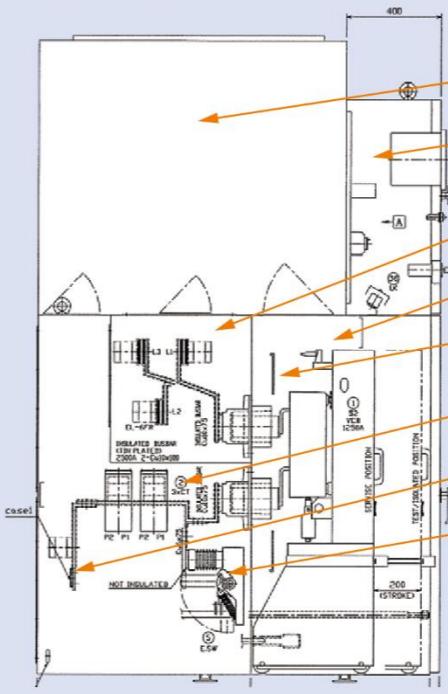
VC-VS6A | VCS



- Exhaust duct (Option)
- Low-voltage compartment
- 01 Busbar compartment
- 02 Contactor compartment
- 03 Automatic shutters
- Cable compartment
- Current transformers
- 04 Automatic earthing switch (Motor feeder only)
- 05 VCS compartment

3

VC-V6A | VCB



- Exhaust duct (Option)
- Low-voltage compartment
- 01 Busbar compartment
- 05 Circuit breaker compartment
- 02 Automatic shutters
- Current transformers
- Cable compartment
- 03 Earthing switch

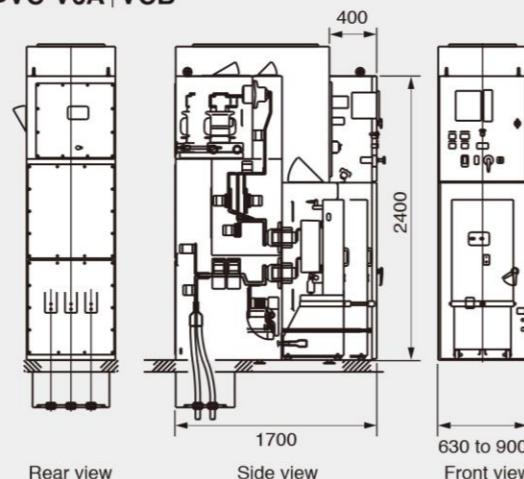
4

● Electrical Ratings/Dimensions

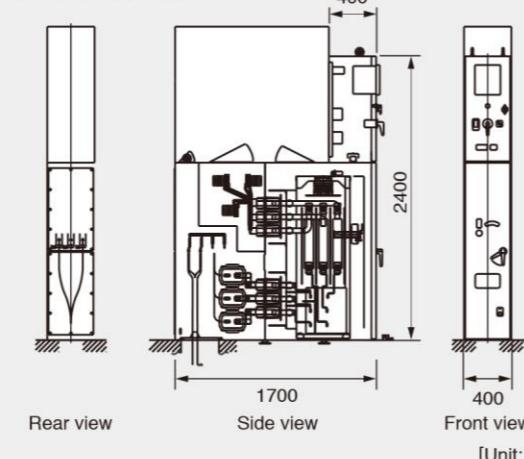
Type	VC-V6A	VC-VS6A
Applied standard	IEC 62271-200	
Rated voltage	7.2 kV	
Rated frequency	50 Hz, 60 Hz	
Busbar rated current	630 A, 1250 A, 2000 A, 2500 A	
Load side rated current	630 A, 1250 A, 2000 A	200 A, 400 A
Rated short time withstand current	31.5 kA 3s, 40 kA 3s	
Internal arc classification (IAC)	AFLR 31.5 kA 1 sec	
Rated power-frequency withstand voltage	20 kV 1 min	
Rated lightning impulse withstand voltage	60 kV	
Loss of service continuity category	LSC2B-PM	
Dimensions	Height	2400 mm ¹
	Depth	1700 mm
	Width	630/1250 A 630 mm 400 mm 2000 A 750 mm 2500 A 900 mm

¹: Exhaust duct dimensions are excluded

● VC-V6A | VCB



● VC-VS6A | VCS



● Type Testing

Type testing on the VC-V6A(VCB), VC-VS6A(VCS) was performed based on the international standard IEC62271-200, and the main typing tests performed are as follows.

● Dielectric Tests

This test verified that the main circuit can withstand the applied voltage when the standard rated lightning impulse withstand voltage and power-frequency withstand voltage are applied.

● Temperature Rise Test

The temperature rise of the various parts of the switchgear or auxiliary equipment for which limits are specified, shall not exceed the values specified in IEC62271-1.

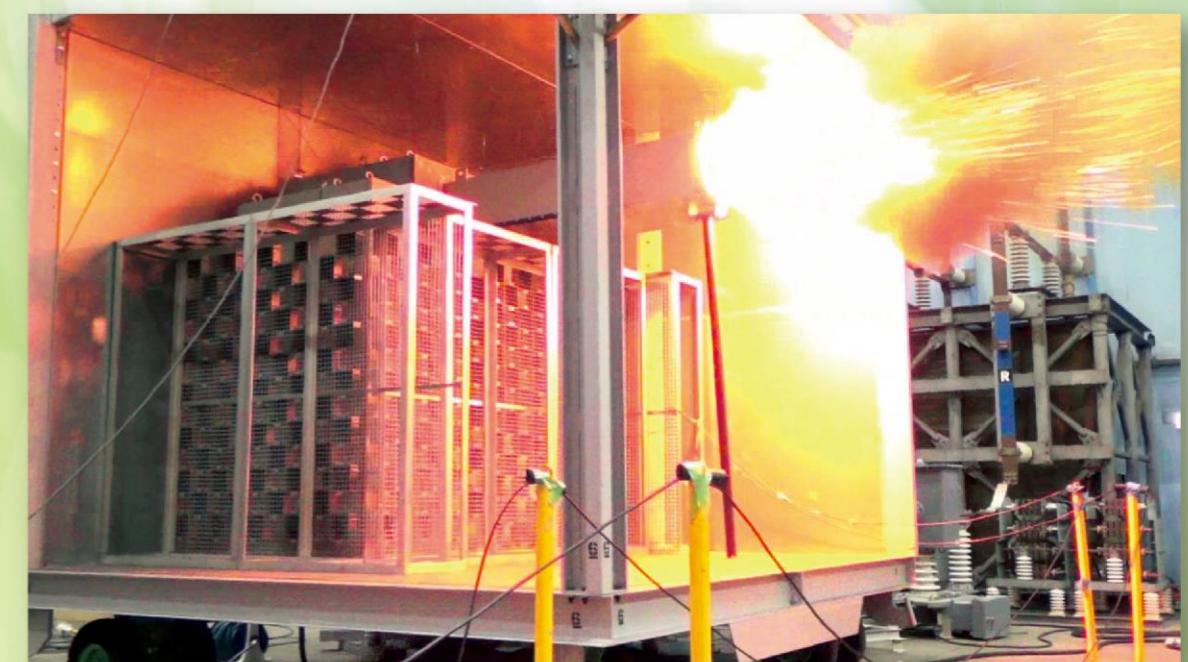
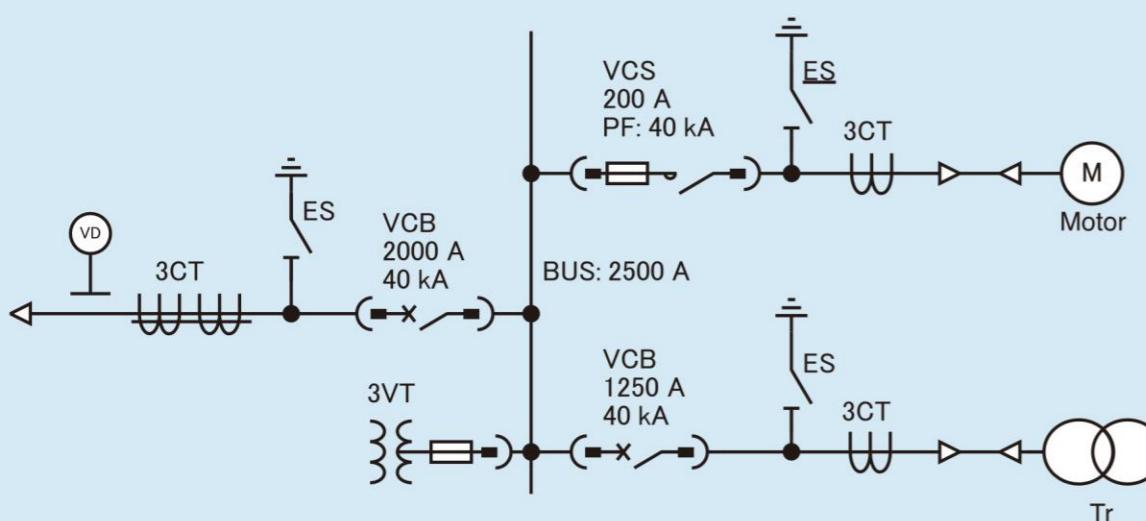
● Short Time and Peak Withstand Current Test

Main circuits and, where applicable, the earthing circuits of the switchgear and controlgear shall be subjected to a test to prove their ability to carry the rated peak withstand current and the rated short-time withstand current.

● Internal Arc Test

The internal arc test is intended to verify the effectiveness of the design in protecting persons in case of an internal arc, when the switchgear and controlgear is in normal service condition. The internal arc test is only applicable to metal-enclosed switchgear and controlgear, intended to be qualified as IAC classified.

● Single Line Diagram



Internal arc test



Proton Power Technology Inc.



AUTO-RECLOSER & SECTIONALIZER

SDV Series Outdoor Vacuum
up to 36 KV

OUR COMPANY

Proton Power Technology Inc. is an ISO 9001:2015 certified; one of the modern and leading quality manufacturers of various Electrical equipment's up to 33kV under the brand name of Proton Power Technology Inc. Vadodra, Gujarat, India

Driven by Technology and Innovation, Proton Power Technology Inc. is a well-established Manufacturer, Exporter and Supplier of World Class range of Electrical Products. Since its inception in 1984, the Company has grown manifold and secured a strong foothold in the Industry. Under the direction of able Management, we have successfully acquired a widespread customer base and it continues to expand further. Our Customers prefer us due to our Ethical Business Practices, Customer-Centric Business Approach, Unmatched Product Quality and an Efficient Delivery System.

We believe in offering Quality-Assured range of Products which completely fulfills the essential needs of our valued Clients. We are involved in Manufacturing, and Supplying of different types of products. We strictly adhere to all the quality guidelines that assist us in providing assurance to the customers that all the dispatched products meet with the International Quality Standards. Some points in reference to this are:

- **Ability to suffice in large number**
- **Quality Processed Product Range**
- **Modest Transactional Gateway**
- **Prompt Shipment Facility**
- **Customization**
- **Strict Quality Control**

Vision: Delighting the Customers by exceeding their logical expectations by providing Quality Products with highest level of system control and best standards of manufacturing with on-time delivery at the most competitive price. During the process, we will be the Doyen in Quality and Services for our Customers and create value for all Stake-Holders.

Mission: Having excelled in International and Domestic markets in a small way with our Product Portfolio and winning customers' confidence in all cases proven by repeat orders from them; Proton Power Tech. now proposes to take big leap forward by exploring African, Asean and other developed Countries and achieving a turn-over of INR 1000 Millions in 3 years.

Along the process we will become the most Customer Caring Company.



AUTO-RECLOSER & SECTIONALIZER

The demand for Smart Auto-Recloser & Sectionalizers in modern smart grids has never been higher. Current reclosers have several limitations: they are often too heavy and challenging to upgrade. As a result, the necessary features must be carefully planned in advance, especially if they are needed years down the line. Additionally, if the recloser you choose lacks advanced technical features that ensure zero maintenance, it could be more detrimental than not having a recloser at all.

Auto-Recloser & Sectionalizers are solid-insulated devices that use proven Vacuum Interrupters, encased in Hydrophobic Cycloaliphatic Epoxy. These vacuum circuit breakers come with a maintenance-free magnetic actuator mechanism and reliable current and voltage sensors, making them ideal for harsh, outdoor, unmanned power distribution networks. Their primary goal is to enhance system reliability, reduce downtime, and lower ownership costs.

These SCADA-Compatible units include a control cabinet equipped with a breaker control unit, a microprocessor-based relay, a battery, a battery charger, and provisions for an FRTU.

STANDARDS

Auto-Recloser & Sectionalizers provides safety and protection for a wide range of applications ranging from power utilities, industries and infrastructure by complying with the latest IEC standards:

- IEC 62271-100 Alternating Current Circuit Breakers.
- IEC 62271-111 Pole Mounted Outdoor Recloser.
- IEC 60255- Measuring Relays and Protective Equipment.
- IEC 60044-7-8 Electronic Current and Voltage Sensors.

Voltage Sensors:

Voltage sensors replace conventional potential transformers. They operate based on a proven capacitive voltage divider principle, ensuring linear performance across a wide range of values.

Current Sensors:

Current sensors serve as direct replacements for traditional current transformers. They offer a broad current range within a single design, eliminating the need for multiple specifications. These linear devices are highly reliable, as they lack an iron core and do not saturate, even at 40 times the primary current. Each sensor is designed for both metering (class 0.2) and protection (5P40) applications.



MAGNETIC ACTUATORS

The Auto Recloser is equipped with advanced, highly reliable magnetic actuators that utilize magnetic forces to operate the circuit breaker. This cutting-edge technology offers unmatched benefits, making the actuators completely maintenance-free.

- 100,000 Mechanical Operations without any Maintenance.
- Fewer Moving Parts.
- No links and latches; lubrication and periodic maintenance is avoided.
- Faster Close/Open Time.
- Low Power Consumption.
- Light Weight.



Accurate



Embedded current and voltage sensors



Metering



Failure Free



Safe



Protection



Light Weight



100,000 operations



Consumes less energy



Maintainence free

VACUUM INTERRUPTION

ESPL offers proven vacuum technology for arc interruption. Each pole is equipped with a vacuum interrupter, utilizing a proprietary casting technique that significantly enhances the dielectric strength of the product. This vacuum technology is highly effective in switching capacitive components of current, making the SDV an ideal solution for overhead line and cable protection.

HYDROPHOBIC INSULATION

The SDV embedded poles are made from high-quality hydrophobic materials, specifically HCEP (Hydrophobic Cycloaliphatic Epoxy). Each pole houses separate current and voltage sensors. This material is proven to perform exceptionally well under humid conditions.

BASIC DESIGN

The Auto Recloser operates electrically by energizing a magnetic actuator system housed in a fully sealed enclosure. Each pole is equipped with a vacuum interrupter, enclosed in solid dielectric insulation for both mechanical strength and high dielectric performance. Compact and lightweight current and voltage sensors are integrated into the Auto Recloser unit.



Metering



Protection



Communication



Annunciation

CONTROL CABINETS

The Control Cabinet houses the Advanced Relay, Battery, Battery Charger, Breaker Control Unit, and provisions for an FRTU, along with all necessary connector options. Designed for outdoor applications, the cabinet can be mounted on a pole for secondary distribution or on a pedestal for substation installation. It is tested to meet IP65 standards. The cabinet includes a 24V battery charger with both 12V and 24V outputs. It eliminates the need for costly rewiring of I/O signals by accepting existing connector plugs for power, control, voltages, and currents with the same pin sequence. Additionally, it supports existing communication connections for Serial TIA-232, TIA-485, Fiber Optic, and IRIG-B. Upgrading communications is simplified with the optional true embedded Ethernet ports in the M-7679 R-PAC, allowing for multi-user, multi-protocol access to advanced metering, power quality (PQ), and disturbance fault recorder (DFR) data collected by the control system.



PROTECTION FUNCTIONS

The SDV offers a comprehensive range of protection functions, all of which are multi-stage. The Auto Recloser (ACR) can accommodate up to 8 different protection groups. Additionally, these protection functions can be individually programmed to either operate the switch, raise an alarm, or trigger other actions. For instance, in a 50Hz power generating station, the operator can program the first stage to trigger an alarm at the Control Room SCADA when the frequency exceeds 51Hz, and on the second stage, tripping can be programmed if the frequency exceeds 52Hz.

Over Current and Earth Fault Protection

Over Current and Earth Fault protection are essential to almost every part of the protection system, safeguarding against overloads and short circuits. This protection can include a follower or standard DTL added to inverse time or instantaneous protection, with:

- 4-stage operation
- IEC Curves: Normal Inverse, Very Inverse, Extremely Inverse
- IEEE Curves: Moderately Inverse, Very Inverse, Extremely Inverse
- User-programmable non-standard curves

Sensitive Earth Fault

Sensitive Earth Fault (SEF) protection is used in systems with high-resistance grounding, such as alternators and generators. High resistance limits the fault current to a very low magnitude, which may go undetected by standard Earth Fault protection. This feature ensures that faults are detected before they cause a short circuit in another phase.

Fault Locator

The Fault Locator function uses proprietary impedance logic to calculate the distance to a fault. This is particularly useful for restoring long distribution lines, especially in distributed generating stations with long feeder lines. The advantage of distance protection is its independence from source impedance variations.

Under/Over Voltage Protection

Over-voltage or voltage surges are common causes of protection failures. This function protects against these issues by working within a defend threshold above and below the specified voltage, with the nominal phase-to-ground system operating voltage set by the user.

Negative Phase Sequence Overcurrent and Over-voltage

Negative, positive, and zero-phase sequence currents and voltages can be monitored and logged. Negative-phase sequence current protection is used to detect low-level phase-to-phase faults in high-level, three-phase loads. Protection can be set to inverse time, definite time, or instantaneous operation.

Broken Conductor/Phase Unbalance

The ACR detects unbalanced conditions in the three-phase currents, typically caused by a broken line conductor, poor grounding, or floating conditions.

Under-Current Protection

Each element has settings for pickup level and Definite Time Lag (DTL) delays. This protection activates if the current falls below the setting for the specified delay duration.

Thermal Overload Protection

The thermal algorithm calculates thermal states based on measured currents, applicable to lines, cables, and transformers. It provides outputs for both thermal overload and thermal capacity.

Neutral Overvoltage

This function detects if the neutral voltage exceeds the set threshold for the duration of the delay. It is useful for identifying earth faults in high-impedance earthed or isolated systems.

Under/Over Frequency Protection

This function causes the ACR to trip if the system frequency exceeds the specified under or over-frequency trip threshold values.

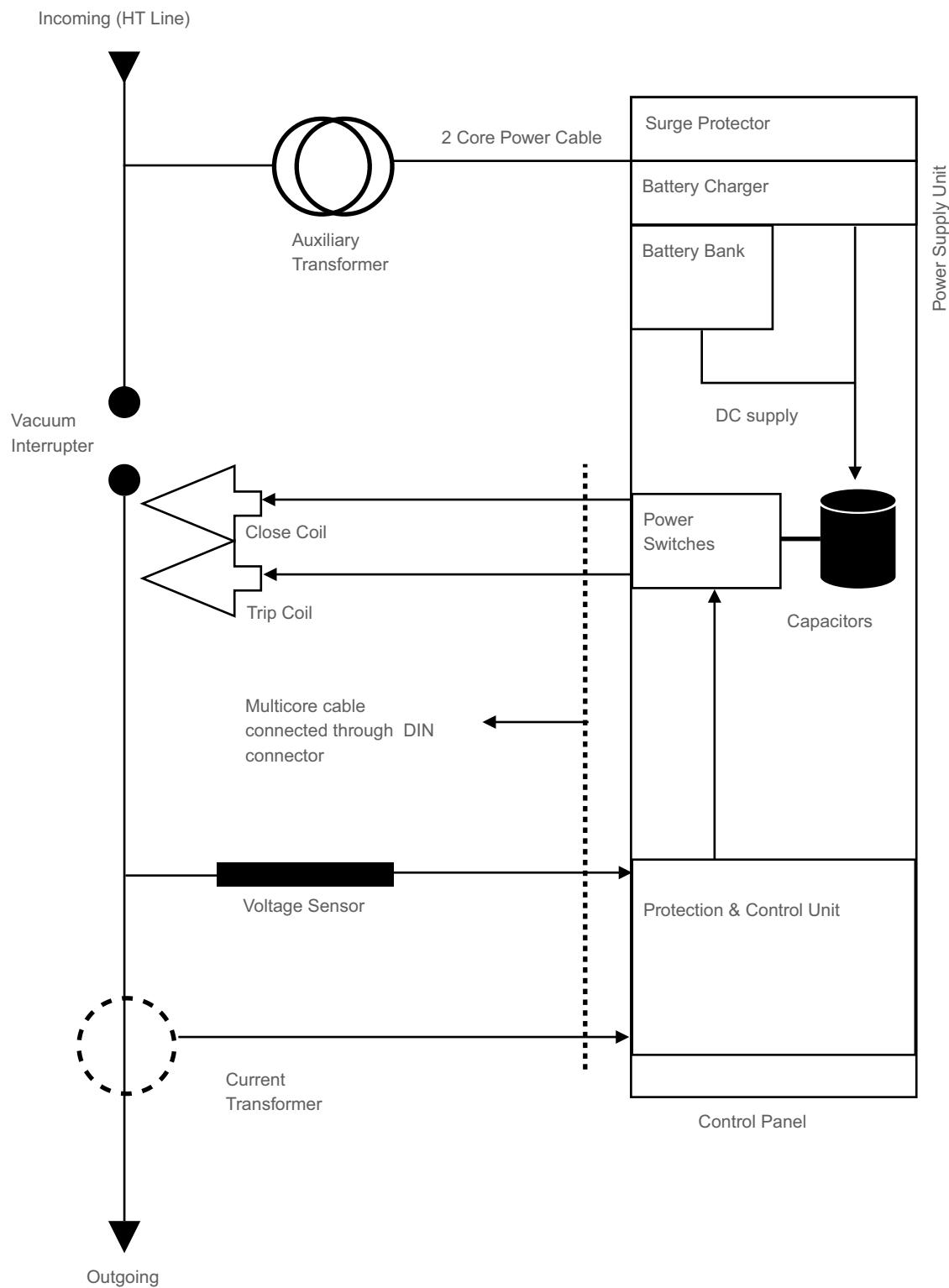
Auto Reclose

The SDV provides independent phase-fault and earth fault/sensitive earth fault sequences, with up to 5 trips, meaning 4 reclose attempts before lockout. The auto-reclose sequence can be initiated by internal protection operations or through a binary input from external protection. Each trip in the sequence can be set as either instantaneous (fast) or delayed. The user can also configure the reclose (dead) time and reclaim time for each trip.

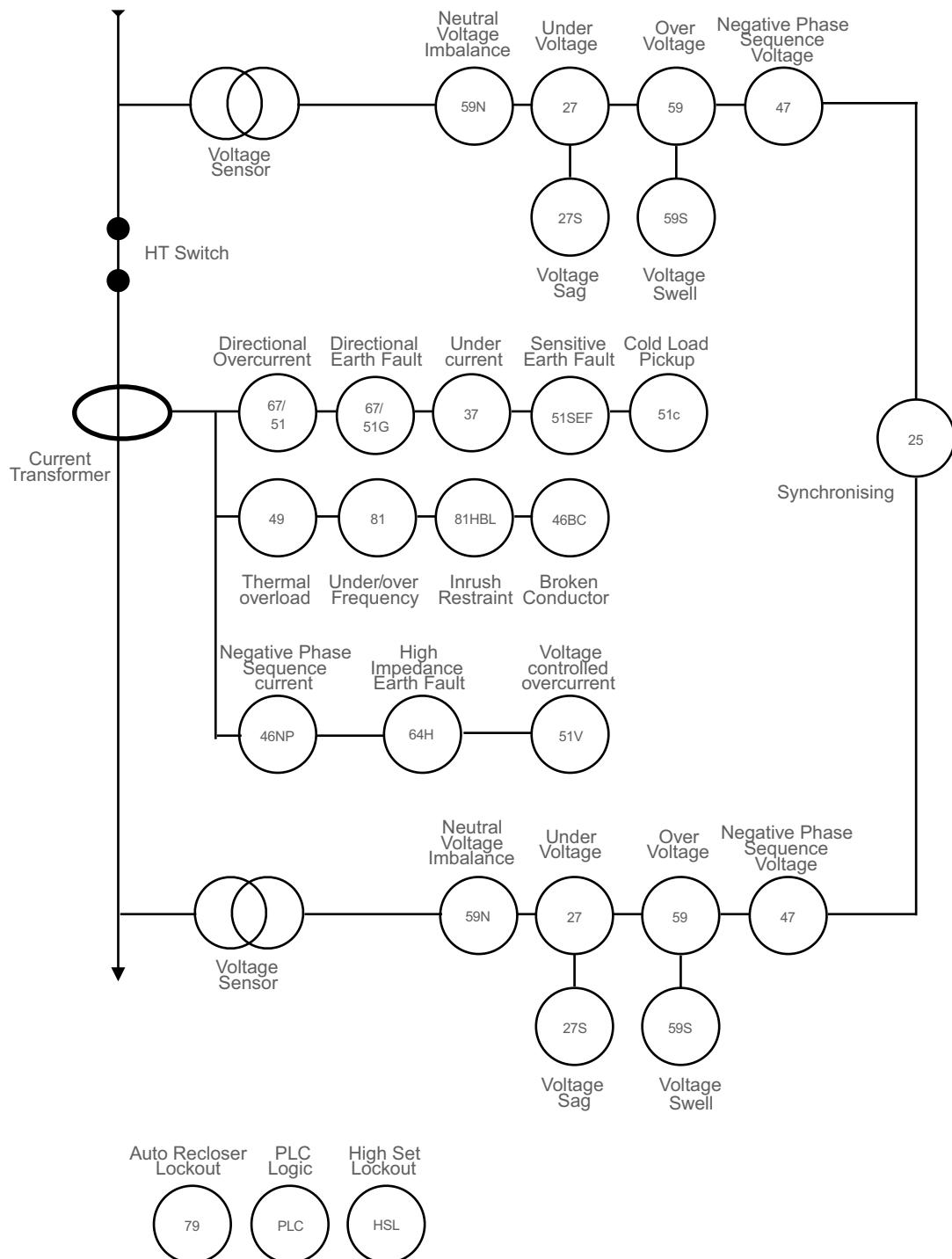
COMMUNICATION

- Universal Serial Bus Port can be used to connect to a Laptop/PC
- Rear End RS-485 Port
- Ethernet Port
- Communication Protocols: IEC 60870-5-103,104, MODBUS and IEC 61850

FUNCTIONAL DIAGRAM OF STANDARD SDV



ANSI PROTECTION DIAGRAM



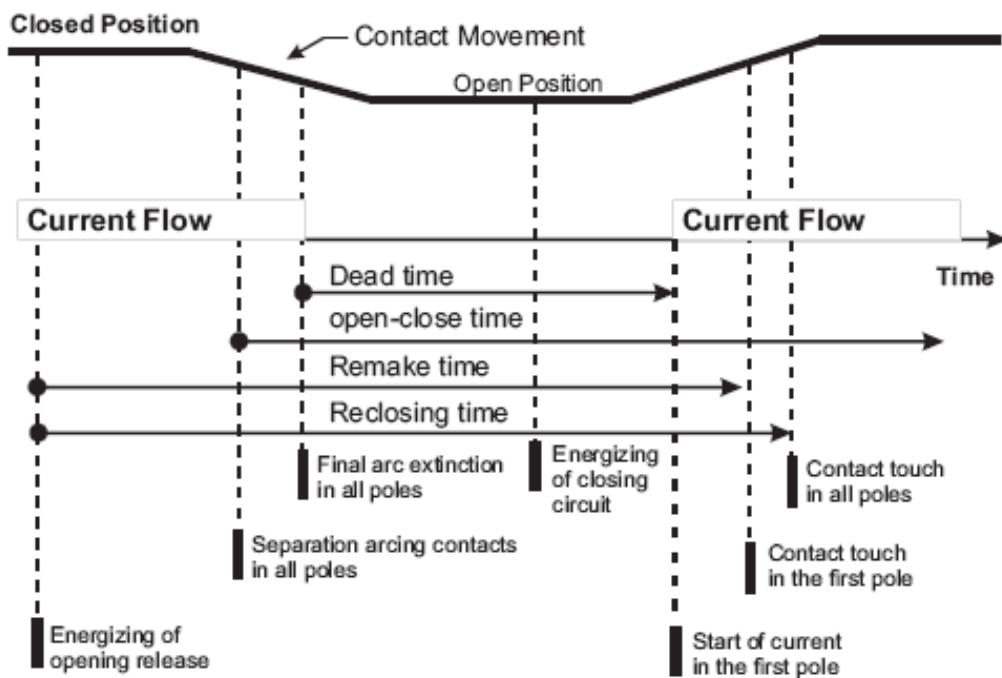
PRINCIPLE OF OPERATION - AUTO RECLOSE

It is well understood that 80-90% of faults on overhead lines are transient in nature. These temporary faults can cause significant delays in restoration if addressed manually. The primary objective of an Auto Recloser is to reduce outage times on distribution lines by quickly restoring power. This is achieved by automatically closing the line after a pre-determined delay. Typically, transient faults are cleared within the first or second dead time. However, if the fault is permanent, the recloser will enter a lockout state after the final closure attempt. Once in lockout, the breaker remains open until it is manually reset by an operator.

The Auto Recloser duty cycle is defined as O-DT1-CO-DT2-CO-DT3-CO-DT4-CO, which represents the sequence of events that occur before the device enters lockout mode at the end of the cycle.

- **O** - Open/Trip operation
- **C** - Close operation
- **DT1...4** - Dead time 1...4

A diagram illustrating the line restoration process and associated steps in power line operation using the Auto Recloser principle is shown below.



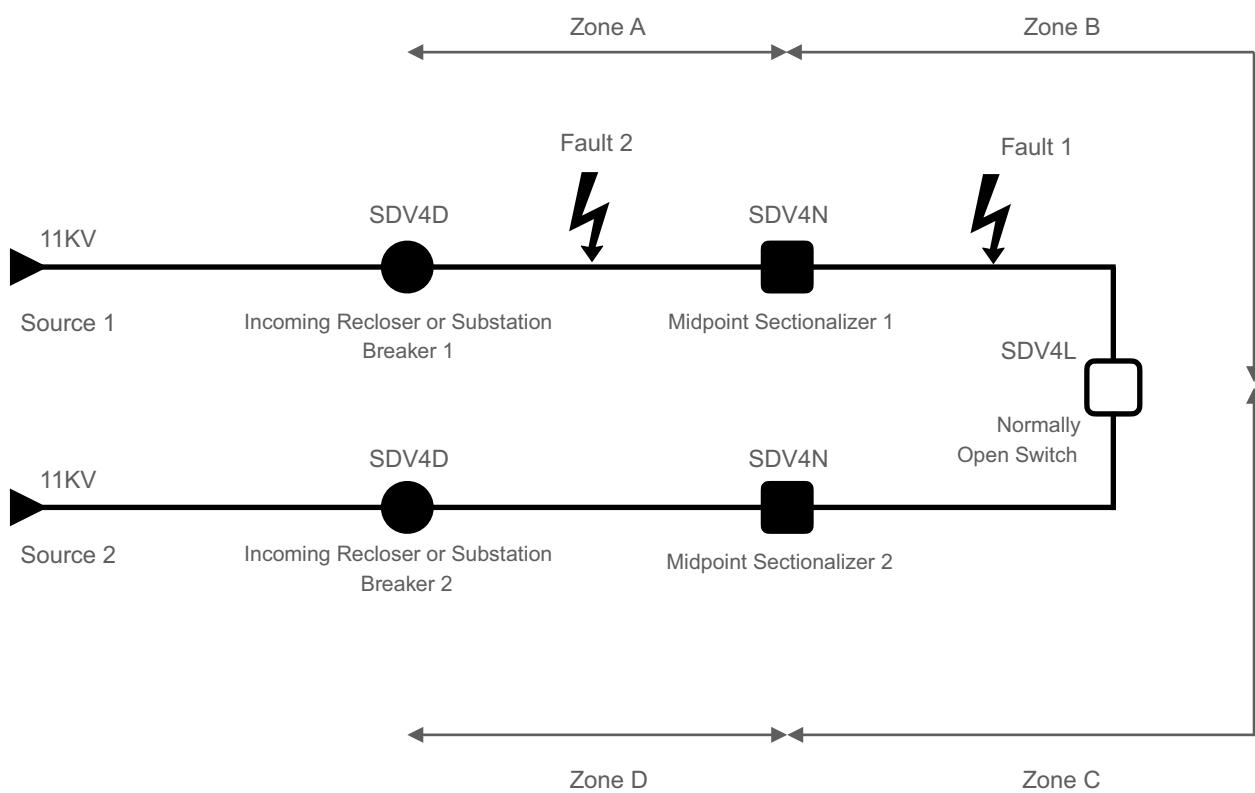
Reclosers also play a critical role in self-healing grids, a key component of modern smart grids. Additionally, features such as cybersecurity, real-time monitoring and control, interoperability, and demand response management can be achieved with the SDV Auto-Recloser.

PRINCIPLE OF OPERATION - SECTIONALIZER

A Sectionalizer is a load break switch installed downstream of a recloser or breaker on a feeder. Unlike traditional protection coordination, it operates based on a counting principle.

When a fault occurs, the counter logic is activated. It tracks the number of reclosing attempts made by the upstream device, recording each count in its memory. After a specified number of attempts (set as part of the Sectionalizer settings), the Sectionalizer opens to isolate the faulted section of the line, provided the backup device is also in the open condition. The main objective of the Sectionalizer is to isolate the faulty section.

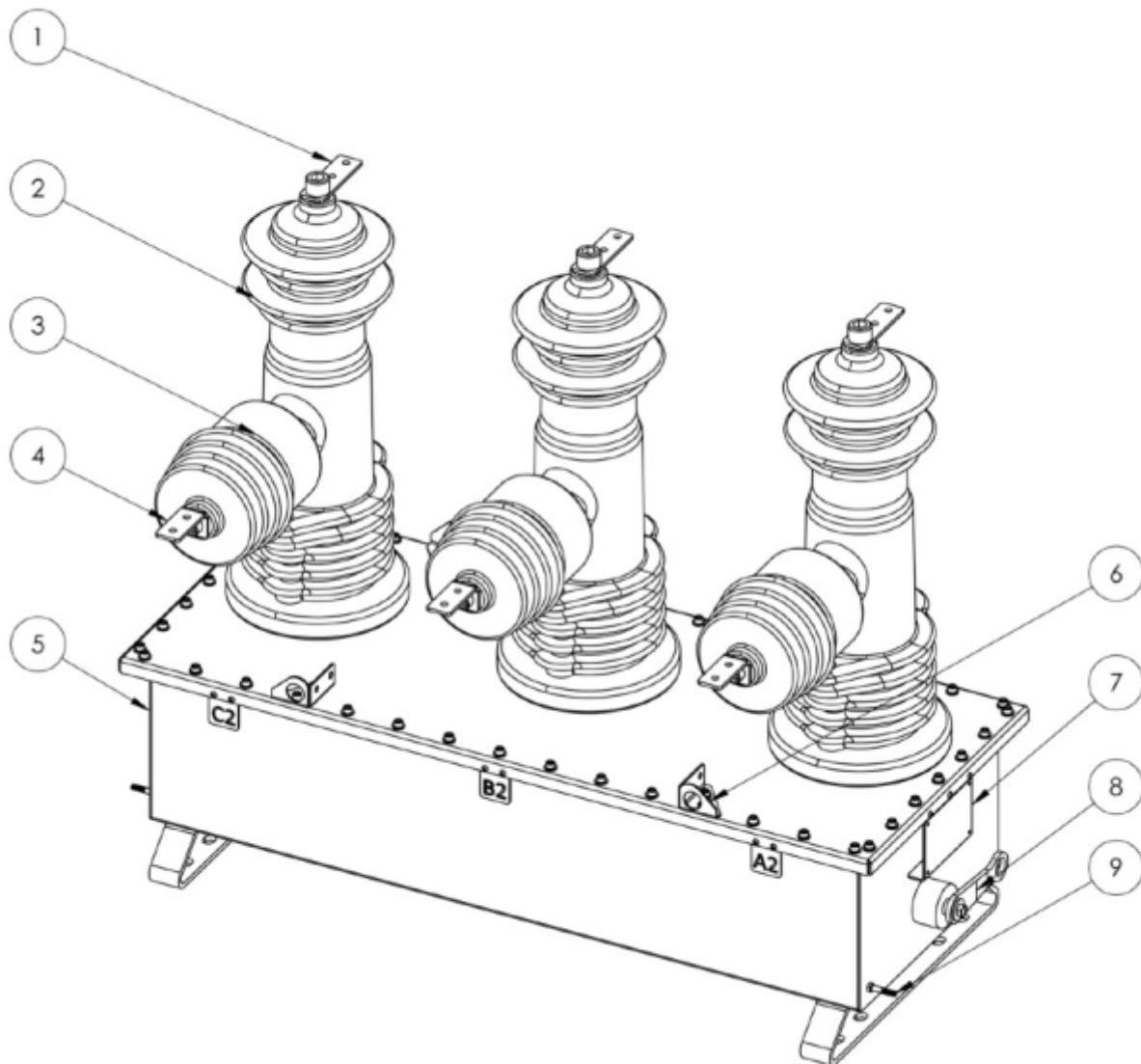
ESPL Sectionalizers are programmed to sense current and voltage to detect a fault. The upstream protective device's operation (i.e., its opening) is identified by the zero current flow through it, triggering the Sectionalizer to open. After the Sectionalizer opens, the backup device automatically recloses to restore service to the portion of the line up to the Sectionalizer's location.



A practical application of the Sectionalizer is illustrated in the diagram above. Two feeders (Feeder 1 and Feeder 2) are connected through a Sectionalizer, which is typically in the open condition, with voltage sensing on both the incoming and outgoing sides. Reclosers handle fault interruption, while the Sectionalizer is positioned at a midpoint for fault isolation. Two case scenarios are described below for clarity:

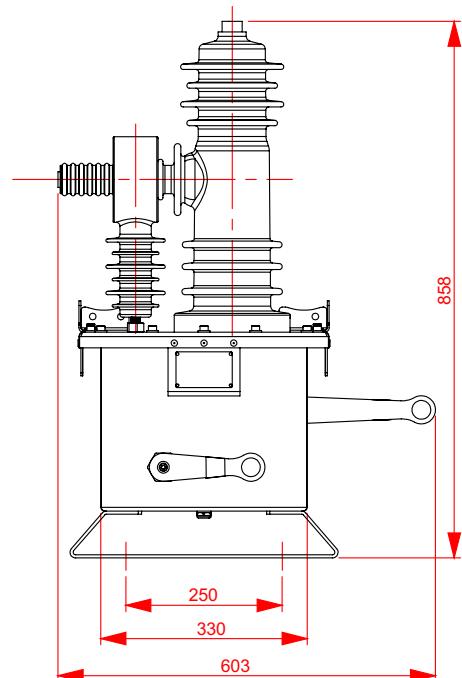
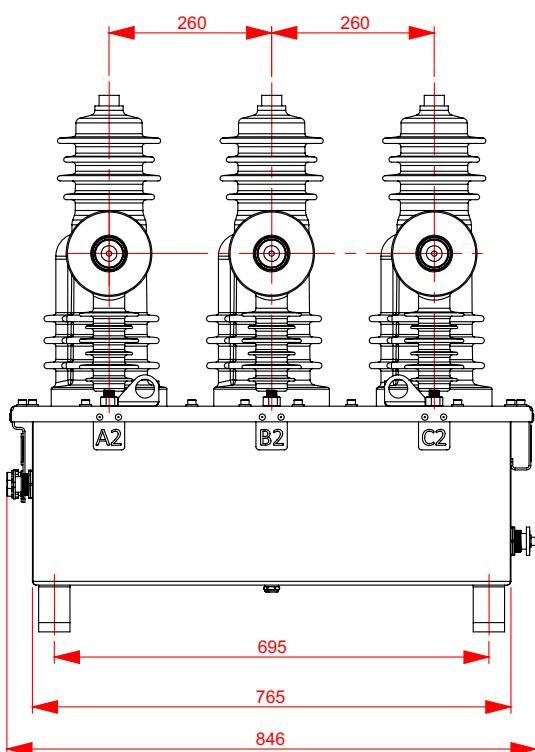
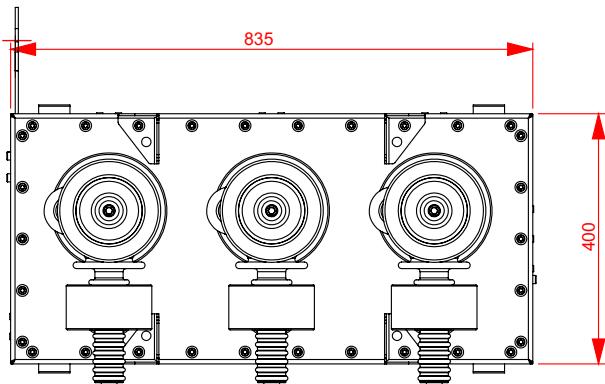
1. Permanent Fault 1 in Zone B: The Sectionalizer 1 will open after the preset number of retries from Recloser 1. As a result, Zone B will be isolated automatically, while Zones A, C, and D will continue receiving power.
2. Permanent Fault 2 in Zone A: In this case, only Recloser 1 will open and lock out after completing its duty cycle. When this happens, Sectionalizer 3 will sense the voltage outage on one of its sides and automatically close, restoring power to Zone B. Ultimately, Zone A will be isolated automatically, while Zones B, C, and D will remain powered.

AUTO-RECLOSER & SECTIONALIZER ARRANGEMENT



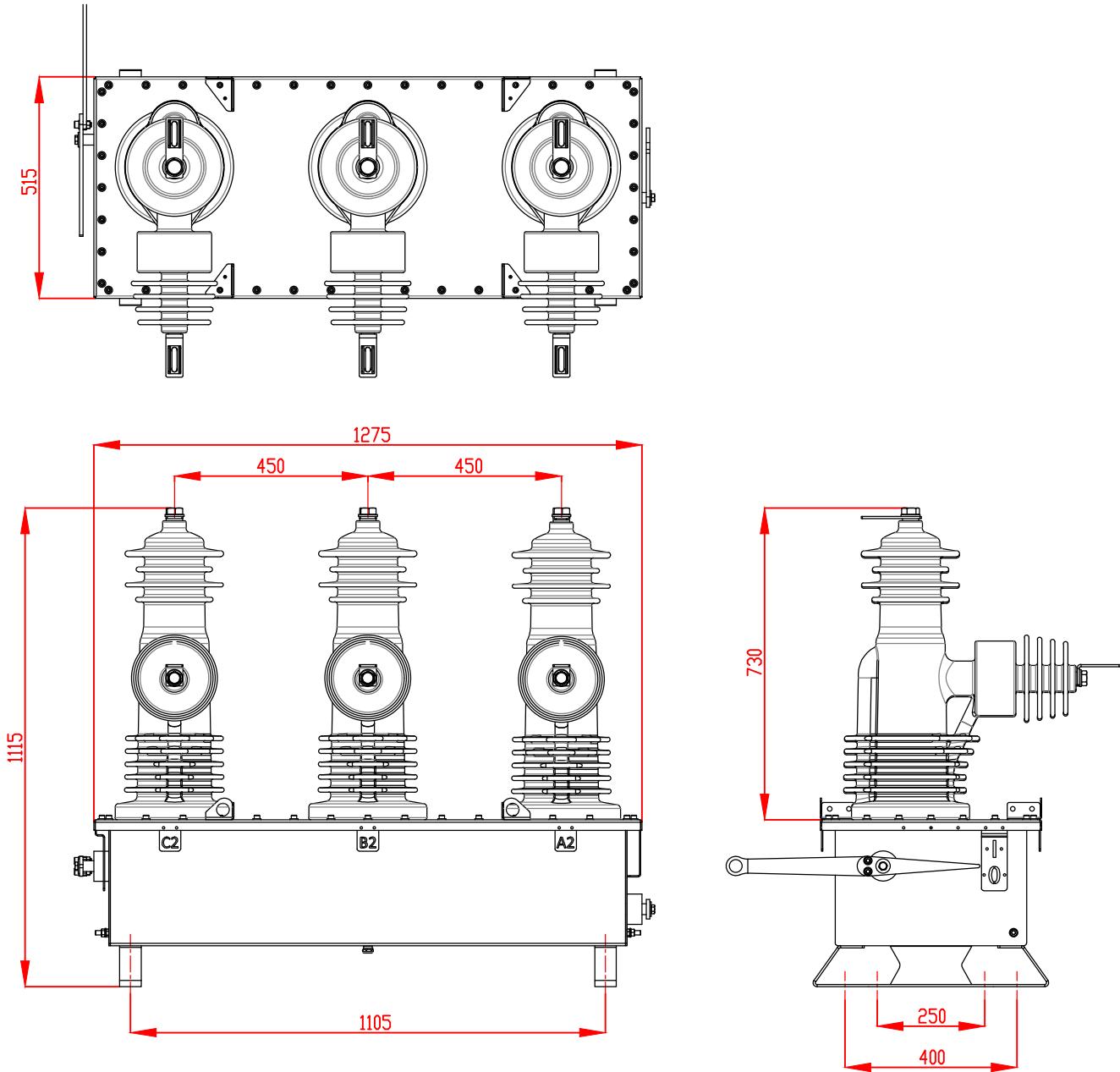
S. No.	Description	Qty.
1	Incoming Terminal Clamp	3
2	Embedded Pole Assy.	3
3	Current Transformer Housing	3
4	Outgoing Terminal Clamp	3
5	Base Tank	1
6	Lifting Hook	4
7	Name Plate	1
8	Trip Lever	1
9	Earthing Terminal	2

DIMENSIONS 11 KV AUTO-RECLOSER & SECTIONALIZER



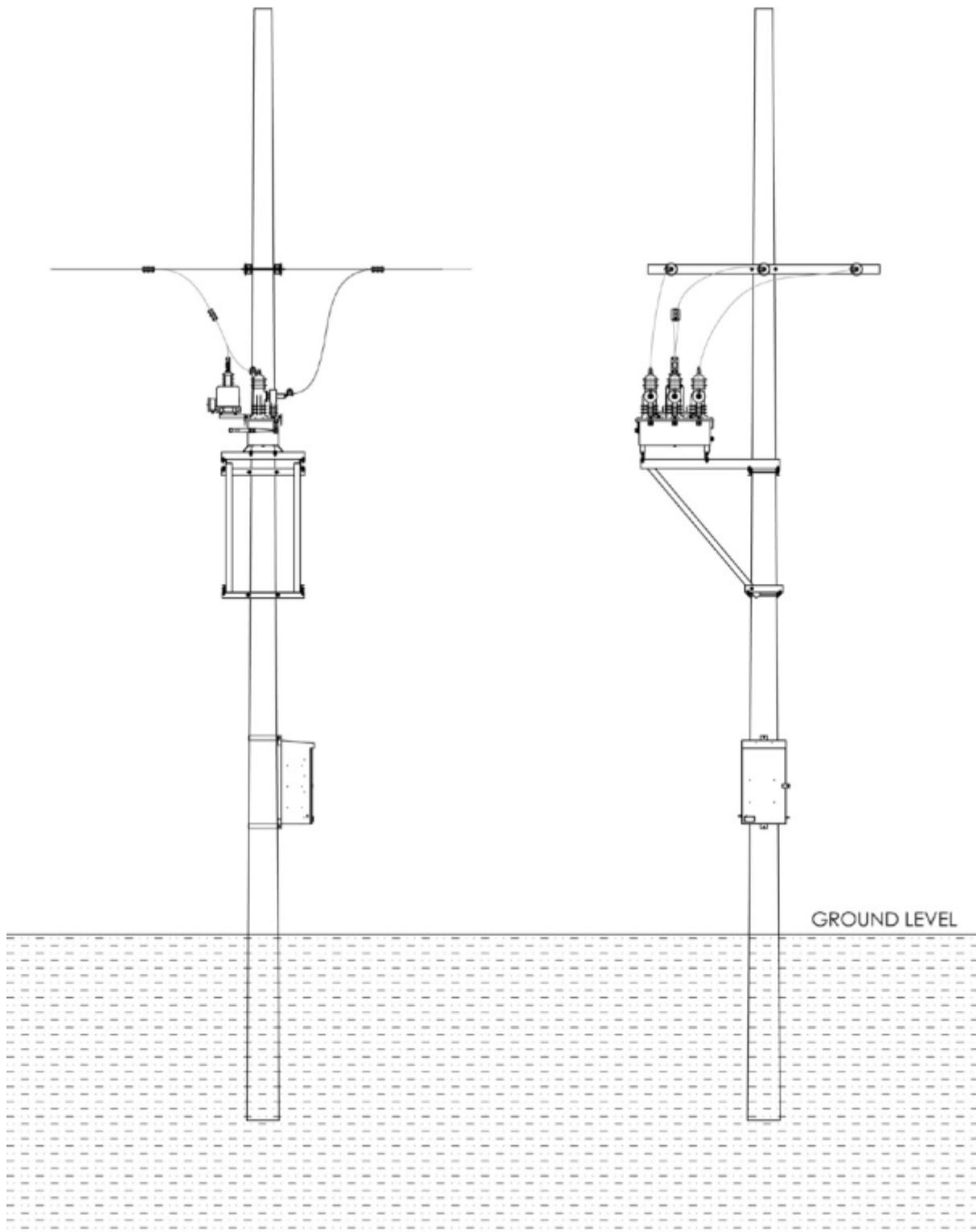
All dimensions are in mm

DIMENSIONS 33 KV AUTO-RECLOSER & SECTIONALIZER

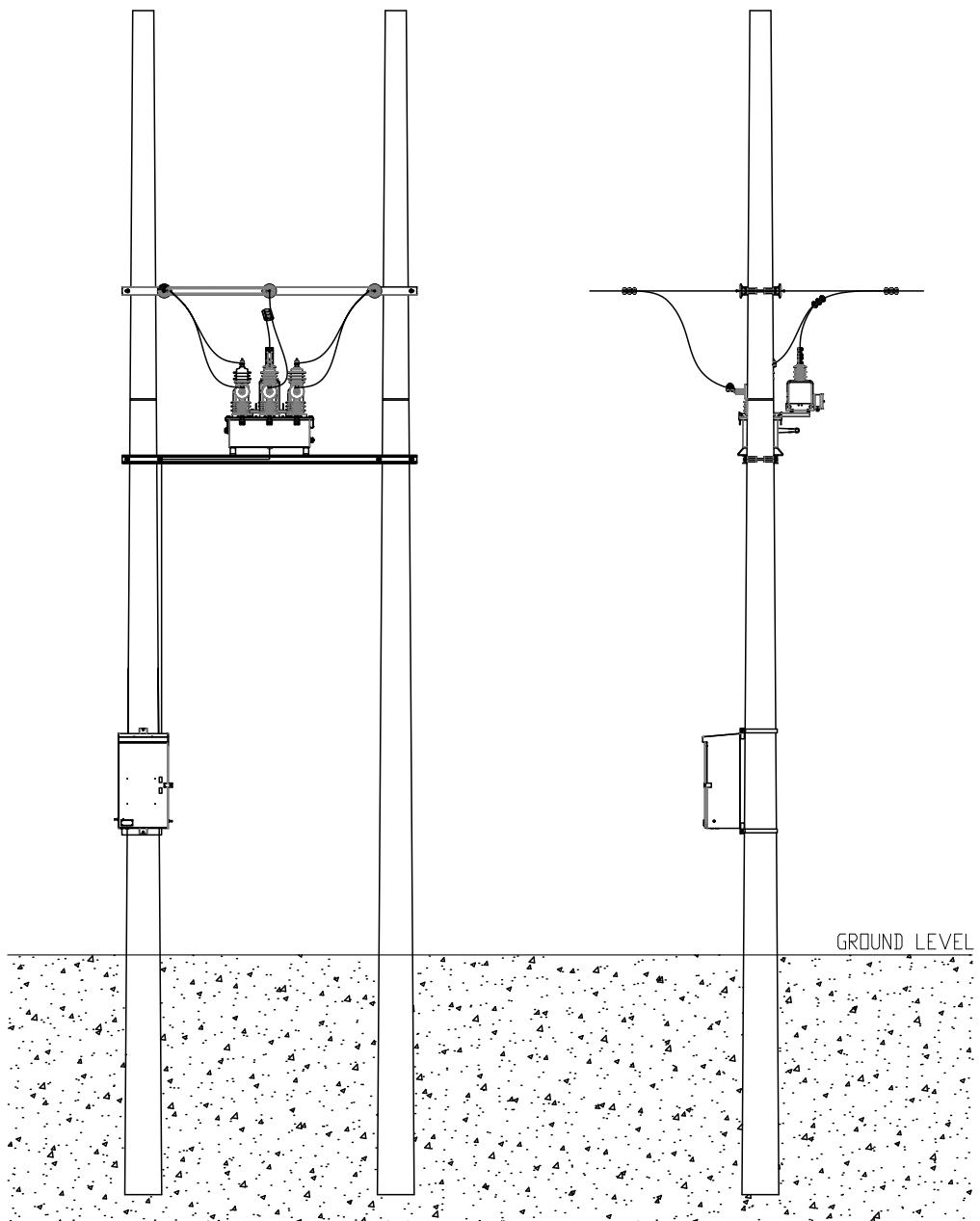


All dimensions are in mm

INSTALLATION - SINGLE POLE



INSTALLATION - DOUBLE POLE



STANDARD TECHNICAL SPECIFICATIONS

Specification	SDV12	SDV27	SDV36
Rated Maximum Voltage	12kV	27kV	36kV
Power frequency withstand (Dry & Wet) for 60s	32kV rms	60kV rms	70kV rms ¹
Lightning Impulse withstand	85kVp	150kVp	170kVp ¹
Rated continuous current	800A	800A	800A
Short Circuit withstand (3s)	12.5kA	16.0kA	16.0kA
Fault breaking capacity	12.5kA	16.0kA	16.0kA
Fault making capacity	31.25 kA	40.0 kA	40.0 kA
Mechanical Endurance	10,000 ¹	10,000 ¹	10,000 ¹
Rated full load operations	10,000	10,000	10,000
Creepage Distance	>31.5mm/kV	>31.5mm/kV	>31.5mm/kV
Interrupting Medium	Vacuum	Vacuum	Vacuum
Insulation Medium	Solid Dielectric	Solid Dielectric	Solid Dielectric
Rated frequency	50 Hz	50 Hz	50 Hz
Ambient temperature	-10°C to +55°C ¹	-10°C to +55°C ¹	-10°C to +55°C ¹
Humidity	0 to 100%	0 to 100%	0 to 100%
Altitude	2200 meter	2200 meter	2200 meter
Weight (Circuit Breaker)	120 KG	230 KG	230 KG
Line charging current	2	5	5
Cable Charging current	10	40	40

1. Higher rating available on request
2. For altitude correction above 1000 meter, IEC 62271-111 shall be applied

ORDERING INFORMATION

Description	Rating	Digit No						
		1	2	3	4	5	6	7
Solid Dielectric Insulated		S	D	V				
Rated Voltage	12kV				12			
	36kV					36		
Protection Type	Non-Directional Protection						N	
	Directional protection						D	
	Loop Automation						L	
Communication	IEC 103, MODBUS, DNP 3.0						S	
	Above + IEC 101/104						R	
	Above + IEC 61850						T	
Mounting Bracket	None						0	
	Standard						1	
	Custom						2	

OPTIONAL ACCESSORIES

Auxiliary Supply Transformer

A pole-mounted transformer can be provided when the ACR is installed in remote or isolated locations, ensuring it has a reliable power supply.

4G Modem

This modem is ideal for areas with poor internet connectivity. It enables remote control of the ACR, allowing the user to manage it from a distance.

Line Isolator

A visual isolation feature is provided on the outgoing side of the ACR to enhance safety during maintenance or fault isolation.

Surge Arrestors

Surge arrestors can be installed on either the incoming or outgoing side of the ACR to protect against voltage spikes and surges.

Incoming Voltage Sensors

The ACR can monitor voltage on both the incoming and outgoing sides. This feature is particularly useful in tie-point conditions where two different voltage sources are involved.

FRTU

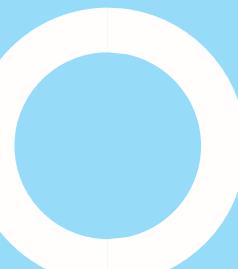
Used as a programmable controller for telecontrol and automation applications, the FRTU allows for efficient remote management and control.



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