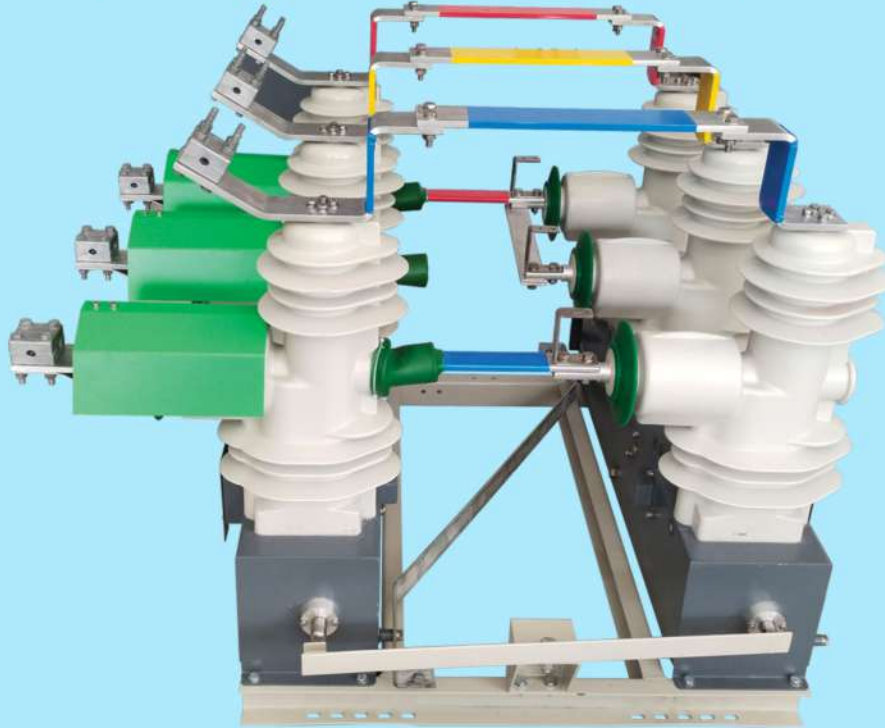


'SRIWIN' 12kV/24kV, 1250A, 26.3kA/3 SEC., 3-PHASE TO 2-PHASE/1-PHASE VCB SELECTOR

Purpose: The purpose of 'SRIWIN' 3-Phase to 2-Phase/1-Phase, VCB Selector is to extend 3-phase supply to particular urban/rural/agricultural feeders, for a given duration of the day and to switch over to extend 2-Phase/1-Phase supply to the same three phase lines of the feeders for the domestic customers connected to the three phase lines. These switching operations are performed automatically.



3-Phase to 2-Phase VCB Selector



3-Phase to 1-Phase VCB Selector

PRINCIPLE OF OPERATION:

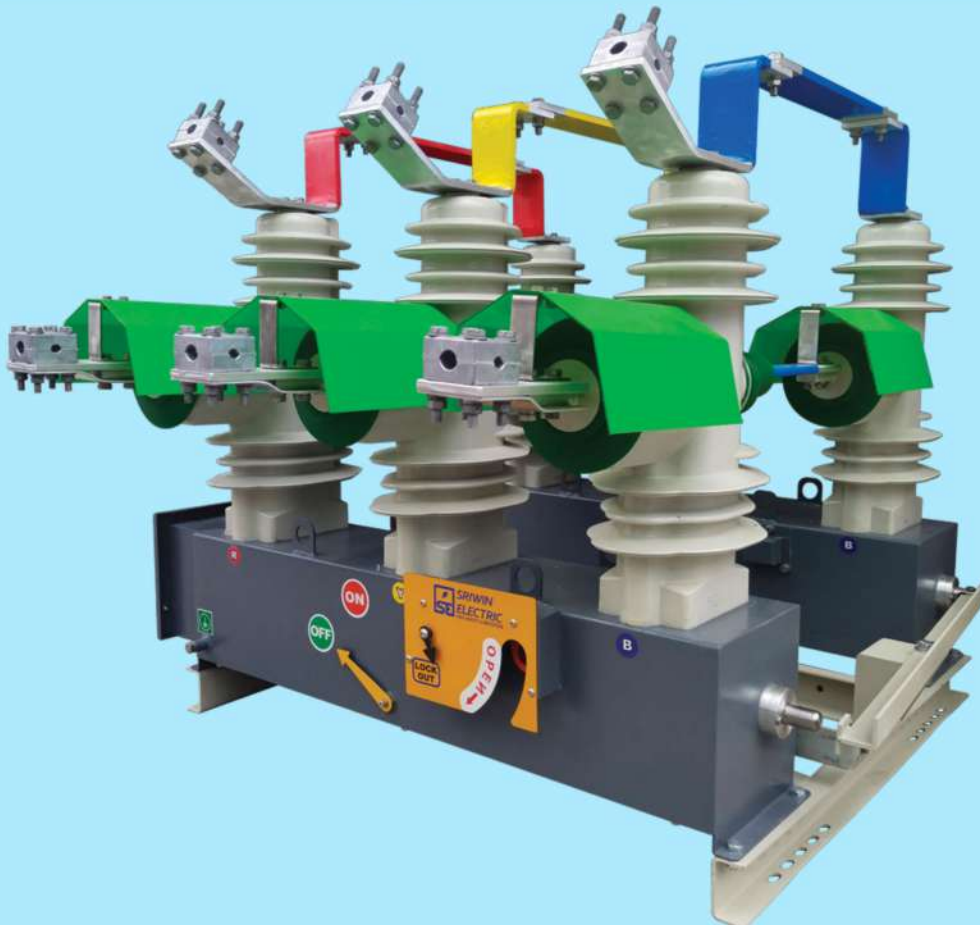
- The Twin Feeder VCB cum 3-Phase to 2-Phase/1-Phase Changeover unit consists of two numbers of gang-operated, three pole Auto Re-closer type VCBs.
- One gang operated VCB will switch ON for extending 3-phase supply and the other gang operated VCB will Switch ON for extending 2-Phase/1-Phase supply.
- Whenever generation is good, or in any duration of the day – say from 7AM to 6PM – Three Phase Supply can be extended to the agricultural feeders.
- Whenever generation reduces or there is any voltage drop in the distribution grid or in any given duration of day/night – say, between 6PM to 7AM – 2-Phase/1-Phase Supply can be extended to the agricultural feeders.
- This will ensure that three phase agricultural loads can be operated only when there is sufficient power availability in the grid.
- When power scarcity is there, three phase power supply to agricultural feeders is automatically/manually cut-off, so that large three phase agricultural loads cannot be operated during such times.
- But, at the same time single phase domestic consumers connected to these agricultural feeders are not affected, as single-phase supply is extended to all the three lines, even during such power scarcity times.
- All such change-over from 3-Phase supply to 2-Phase/1-Phase supply and vice versa can be monitored and controlled, thro select mobile phones.
- All the events, settings, meter readings, status, etc. can also be viewed at any time in the select mobile phones.
- All the operations, monitoring and control can also be effected from SCADA/DMS.

SALIENT FEATURES:

- Mechanical and electrical interlocks are provided between the two VCBs, to prevent simultaneous closing of both the VCBs.
- However, it is possible to keep both the VCBs OFF at the same time.
- The VCB Selector Switch will be operated On-load.
- The operating mechanism is magnetic actuator
- Compact and light-weight
- Robust construction
- Suitable for Outdoor Duty, protected to Degree of Protection IP55.
- It is possible to install the VCB Selector Switch in an existing Pole/Structure
- The VCB Selector Switch will be electrically operated, with a provision for manual tripping
- The insulation medium is solid dielectric & the interruption medium is vacuum
- SCADA/DMS compatible
- Mechanical and electrical ON/OFF indications
- The control cabinet suitable for outdoor duty, with IP55 degree of protection, and of light weight and is suitable for Pole/Structure mounting
- The Incoming as well as Outgoing Bushings of the VCB Selector Switch are of universal type, suitable for terminating ACSR OH Conductor or Aluminium/Copper Cable
- The VCB Selector Switch has an in-built comprehensive Protection Unit, with a set of suitably rated integral Current Transformers, embedded in the VCB bushings.
- Flexible Protection Options – from basic Over-current & Earthfault Relay to comprehensive Feeder Manager
- Optional Metering – from basic ammeter to comprehensive communicable multi-function meter

GUARANTEED TECHNICAL PARTICULARS:

Parameter	12kV VCB	24kV VCB
Rated Voltage	12kV	24kV
Rated Frequency	50Hz./60Hz.	50Hz./60Hz.
Rated Current	1250A	1250A
Rated Insulation Level	12/28/75kV	24/50/125kV
Rated Short Time Withstand Current	26.3kA/3 sec.	26.3kA/3 sec.
Rated Short Circuit Breaking Capacity	26.3kA	26.3kA
Rated Short Circuit Making Capacity	65.75kA peak	65.75kA peak
Closing Time	< 60ms	< 60ms
Opening Time	< 40ms.	< 40ms.
Rated Operating Sequence	O-300ms-CO-3 min.-CO	O-300ms-CO-3 min.-CO
Rated Mechanical Life	20000 Operations	20000 Operations
Rated Electrical Life at rated current	20000 Operations	20000 Operations
Rated Electrical Life at rated short circuit breaking current	100 operations	100 operations
Type of operating mechanism	Magnetic Actuator	Magnetic Actuator
IP Grade of Switching Unit	IP65	IP65
IP Grade of Control Cabinet	IP55	IP55
ON/OFF Indication	Both Mechanical & Electrical	Both Mechanical & Electrical
Applicable Standard	IS/IEC 62271-100 & IS/IEC 60529	IS/IEC 62271-100 & IS/IEC 60529
Auxiliary Voltage	24V DC & 230V AC	24V DC & 230V AC
Auxiliary Voltage Tolerance	85% to 110%	85% to 110%
Manual Trip Operation	Possible	Possible
Type of Insulation	Solid Dielectric	Solid Dielectric
Aux. Contacts	4 N.O. + 4 N.C. in each of the 2 positions	4 N.O. + 4 N.C. in each of the 2 positions
SCADA Compatible	YES	YES



A FEW INSTALLATIONS



APSPDCL, TIRUPATI
3-Phase to 1-Phase



APEPDCL, Vizag
3-Phase to 1-Phase



APCPDCL, Vijayawada
3-Phase to 1-Phase



APEPDCL, Vizag
3-Phase to 2-Phase

**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

