



## Solid Dielectric Load Break Switch for power distribution system thru 12kV and 25.8kV

# ENHANCED TECHNOLOGY

## Solid Dielectric Load Break Switch

Solid Dielectric Load Break Switch(LBS) was designed to improve the disadvantages in SF<sub>6</sub> gas insulated Load Break Switch and to enhance Electric Power Distribution Line. Solid dielectric LBS encapsulated with cycloaliphatic epoxy material, is designed to become explosion-free product unlike SF<sub>6</sub> gas insulated LBS with low gas pressure condition. Solid dielectric LBS is not only the protection of the environment but also overcomes its fatal disadvantage. Solid dielectric LBS uses Vacuum Interrupter and enhanced its switching capability, as well as, eliminates any explosion possibility by adopting solid dielectric method. In addition, it provides Maintenance free from periodic gas leak and gas refilling test.



### • H.V.line Monitoring and Distribution Automation System.(Sectionalizer-option)

Voltage, current metering available(option)  
Sectionalizer, Tie(option)

### • Load Break Part

Independent phase structure, 3 phases internal short circuit fault can be prevented. With using Vacuum Interrupter, load breaking capacity has been improved

### • Quality Stability

Mold(casting) structure does not require any Gas maintenance as Maintenance free

### • Insulation Capability

Epoxy mold structure has almost permanent life time regardless of load break times

### • Light and Compact Design

20% of weight deduction by light and compact design and helping for installation

## Control Part



ETSWC101



ETMFC101

### Metering

- Voltage, Current
- Measures KW and KWH, Power factor
- Demand watts and VARs and frequency
- Load Profile data & Ocillogram



### Remote Communication(ETMFC101)

- RS232 Ports
- DNP3.0 protocol based on IEC60870-5, MODBUS
- Built-In RTU(Optional)
- Setting, Metering and Data records accessible



# 12kV & 25.8kV Solid Dielectric Load Break Switch

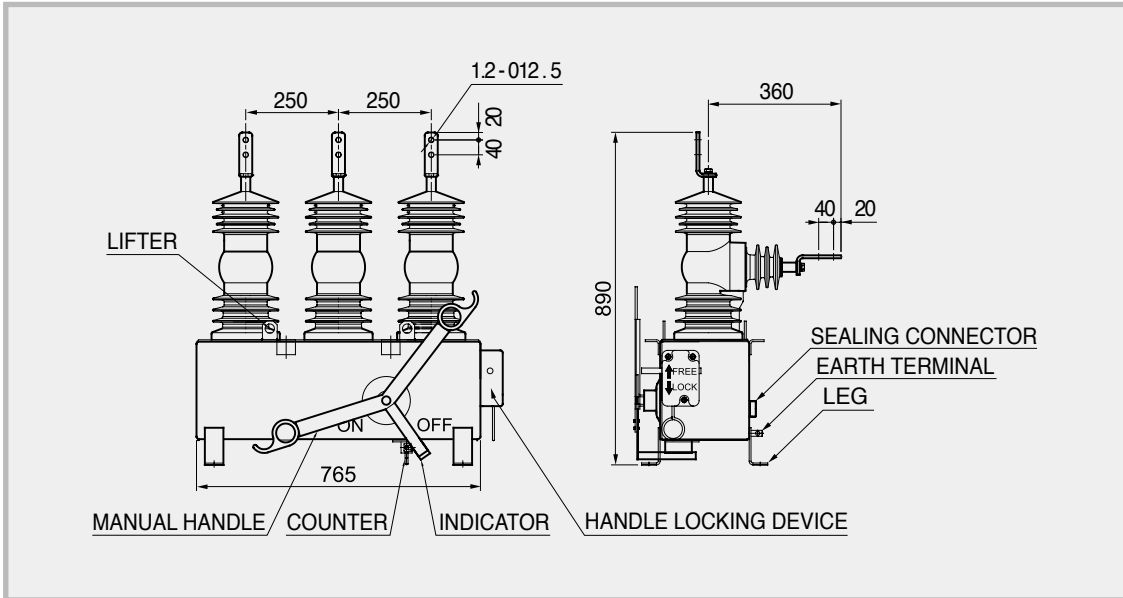
## Ratings

Item/Type	12kV Solid Dielectric Load Break Switch	25.8kV Solid Dielectric Load Break Switch	
Lay out			
Rated Voltage(kV)	12	25.8	
Rated Current(A)	630	630	
Mechanism	Manual, Automatic	Manual, Automatic	
Frequency(Hz)	50, 60	50, 60	
Short Time Current(kA)	20(R.M.S)/1sec	12.5(R.M.S)/1sec	
Making Current(kA)	50(Peak) 2times	32.5(Peak) 5times	
Power Frequency Voltage Withstand	Dry : 42kV 1min Wet : 30kV 1min	Dry : 60kV 1min Wet : 50kV 10sec	
Basic Impulse Level	1.2×50 $\mu$ s , 75kV	1.2×50 $\mu$ s , 150kV	
Insulation Media	Polymer Insulated	Polymer Insulated	
Mechanism	Spring Charged Mechanism	Spring Charged Mechanism	
Load Break	Vacuum Interrupter	Vacuum Interrupter	
Arc Extinguishing	Vacuum	Vacuum	
Control and Operation Function	FRTU built-in or Separate Digital Control	FRTU built-in or Separate Digital Control	
CONTROL	Rated Voltage	1 $\emptyset$ 110/220V 50/60Hz(option)	1 $\emptyset$ 110/220V 50/60Hz(option)
	Power Supply	DC 24V	DC 24V
	Permeable Voltage Range	85~110%	85~110%
	AC Power Frequency Voltage Withstand	2,000V 1min	2,000V 1min
	Basic Impulse Level	1.2×50 $\mu$ s , 6kV	1.2×50 $\mu$ s , 6kV
Maintenance	Free	Free	
Enclosure	Water/Humidity resist STS Enclosure	Water/Humidity resist STS Enclosure	
Weight	Automatic, 630A : 130kg	Automatic, 630A : 150kg	

NOTE : 25.8kV Solid Dielectric Load Break Switch Housing - Terminal / Mold - cone Type (Option)

## Construction

### 12kV Solid Dielectric Load Break Switch Drawing



### 25.8kV Solid Dielectric Load Break Switch Drawing

