

Major item

25.8kV Solid Insulated Recloser



Catalogue Number	108117
Rated Current	630A
Rated Voltage	25.8kV
Rated Breaking Current	12.5(R.M.S)kA
Rated Frequency	60Hz
Rated Making Current	12.5(R.M.S)ka
Blocking Time (Cycle)	3.0(0.05sec)
Input Time (Cycle)	3.0(0.05sec)
Used Frequency Withstand Voltage	Dry:60kV, 1 min/Wet:50kV, 10 sec

25.8kV ECO Load Break Switch (Pole type)



Catalogue Number	Manual:121015 Auto:121016
Rated Current	630A
Rated Voltage	25.8kV
Rated Breaking Current	12.5(R.M.S)kA
Rated Frequency	60Hz
Rated Making Current	32.5(R.M.S)5 times
Used Frequency Withstand Voltage	Dry:60kV, 1 min/Wet:50kV, 10 sec

25.8kV Solid Insulated Pad mount Switchgear



Item	Epoxy Insulated Type	Remarks
Catalogue Number	108175	
Rating	25.8kV, 600A, 12.5kV Main circuit: 125kA Ground: 140kV	
Structure	3-phase 1-batch operation Each phase separable type	Each phase breaking Explosive energy reduction
Unit	Mold, waterproof type	Lightweight; No need for gas leakage checking
Manipulation Mechanism	Phase simultaneous breaking method	
Insulation	Epoxy	Insulation reliability increased
Bushing Connector	Phase separable type	Cable test possible
Control Function	Automatic distribution type	
Dimension	1600x650x1100	45% reduction in installation space

25.8kV Solid Insulated Pad mount Load Break Switch (Solid pad mount LBS)



Catalogue Number	4 Auto: 108191, 4 Manual:108190, 3 Manual: 108192
Rated Current	25.8kV
Rated Voltage	600A
Catalogue Rated Voltage	Power frequency withstand voltage:60kV/1min Impulse withstand voltage: Main circuit:125kV Ground:140kV
Breaker & Ground	Switch/Vacuum Ground/Vacuum
Control	Remote operation possible with mounted RTU
Dimension	1600x650x1300
Characteristics	Uses epoxy mold housing instead of SF6 gas. Environmentally friendly with no risk of explosion. Each phase changeable structure. Compact, 25% reduction in installation space.

ENhanced TEChnology

S m a r t + G r e e n + H u m a n



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 **EFI**

25.8kV Epoxy insulated Fault Interrupter

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Epoxy insulated Fault Interrupter

One shot Circuit Breaker used in Overhead distribution line, is capable of protecting upstream line from a customer's fault current and isolate the faulted area by improving breaking capability to 12.5kA and using epoxy resin instead of SF6 gas for insulation. Environmentally friendly product and maintenance free product from gas leakage monitoring or recharging of gas. Epoxy insulated Fault Interrupter is placed at branching line and at the last load point.

- Maintenance free structure
With no need for complicated components like gas pressure switch, gas release device, and gas input valve, is simplified with greater safety, maintenance free, and no risk of high pressure tank explosion associated with gas insulated products.
- IEC Standard applied. Good for use in heavy air pollution, salt corrosion areas.
- Does not use SF6 Gas which has 23,900 times green house effect than CO2gas. SF6 gas is selected by IPCC as a green house causing substance that can bring negative change to water supply, food supply, and ecosystems.
- Next generation product that uses epoxy insulation and other latest technology.



Ratings

ITEM	CHARACTERISTIC	ITEM	CHARACTERISTIC	
Rated voltage [kV]	25.8	Control Circuit	Impulse withstand voltage [kV]	150(1.2x50µs)
Rated Current [A]	400		Rated voltage [V]	AC 220V 60Hz
Rated frequency [Hz]	60		Control power [V]	DC 24V
Rated breaking current [kA]	12.5		Allowed voltage fluctuation range	85~110%
Rated Making Current [kA]	12.5		Power frequency withstand voltage	2kV, 1 min
Breaking time [Cycle]	3.0 (0.05sec)		Impulse withstand voltage	6kV, 1.2x50µs
Power frequency withstand voltage [kV]	Dry: 60kV, 1 min Wet: 50kV, 10 sec		Weight [kg]	Unit

Comparison

ITEM	Epoxy Insulated Fault Interrupter	SF ₆ gas insulated Sectionalizer
Breaking Capacity	12.5kA	880A
Control Device	Spring Charge	Spring Charge
Breaking Device	Vacuum Interrupter	Puffer
Insulation	Cycloaliphatic Epoxy	SF ₆ Gas Insulation
No Load Breaking Ability	10,000 times	5,000 times
Bushing	Material: Epoxy Creepage: over 645mm	Material: Porcelain Creepage: over 529mm
Actuator Housing	Stainless Steel	Stainless Steel
Control Function & Operation Function	Digital Control	Digital Control
Transformer	Molded inside the bushing for integrated design	Mounted type that is possible to be installed inside unit
Maintenance & Repair	Maintenance free with no gas related components	1. 1. 1. Gas input valve 1. Gas leakage monitoring device 2. Gas pressure build up prevention device
Appearance & Others	1. 1. 1. Vertical bushing (3ea) 1. Terminal structure 2. Unit weight (120kg)	1. 1. 1. Bushing (6ea) 1. Line structure 2. Unit weight (160kg)

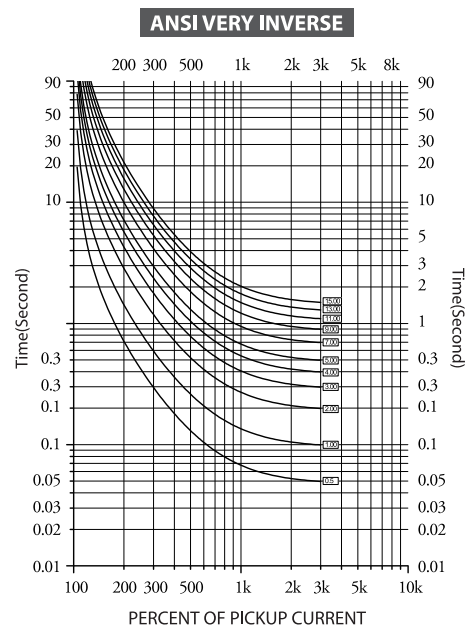
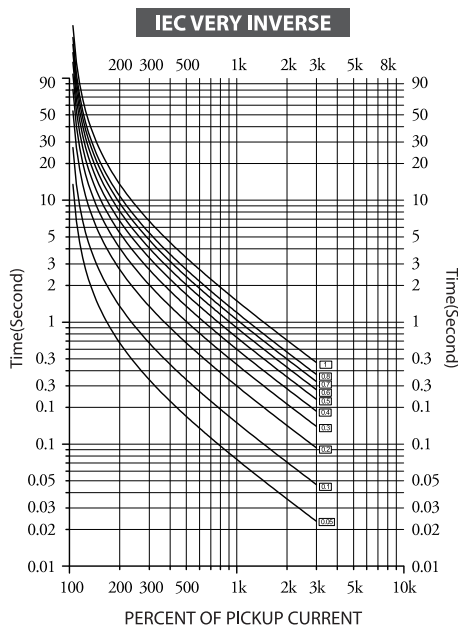


Control & Protection

During operation, when the current is above the minimum operating current, then the fault interrupter can automatically break the circuit as is the characteristic of the T-C in power outage and when auxiliary relays are first released, then the T-C can be tripped regardless of its characteristic. It is suitable for usage in areas of high voltage use as well as areas of frequent lightning discharge and has the following features.

○ Function

- Overcurrent Trip (50P, 50G, 51P, 51G : IEC, ANSI/IEEE, 37 Non-standard Curves Provision)
- Inrush current Restraint
- Line current and live voltage indication display
- Battery Over Discharge Protection



○ Specification

	ITEM	RATING
Control Power	Battery	DC 24 V (12V7.0AH*2EA) 50 times or 24 hours operation at the fully charged battery
	External Power	AC 220 V / 20 VA, Max.200 VA
Control box internal ambient Test	Power frequency withstand voltage	2kV/1min
	Impulse withstand voltage	IEEE C62.45 Voltage Waveform : 6kV, 1.2/50µs Current Waveform : 3kA, 8/20µs
	Surge withstand capability	EFT/BURST Test: 4 kV(2.5 Hz) Oscillatory SWC Test: 2.5 kV(1 MHz)