

DONGYANG

EEC

ECO-FRIENDLY
FUTURE URBAN LIFE
GREAT CREATIVE

DONGYANG EEC

Carry out responsibility
Work together
Run the initiative

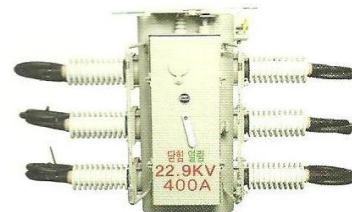


III Pole Mounted SF6 Gas Load Break Switch

Dong yang's pole mounted SF6 Gas insulated load break switch was designed to achieve optimum performance, reliability, long life and conomical benefits and offers the followings.

- SF6 Insulation and interruption with puffer arc quenching.
- Stainless steel sealed enclosure for long life permanently.
- Simple and strong toggle mechanism
- Puffer principle designed for minimum 200 load break and 5,000 manual operation
- Switch power supply for 24V DC motor operation to sustain operation in the event of loss of AC external power(AC220V)
- Easy installation due to reduced dimension
- Safety features with Low gas pressure interlocking device, over-pressure releasing device and safety locking device
- High electrical ratings
- No maintenance
- Options available with the Remote Terminal Unit(RTU)
- Built-in current transformers measures current with $\pm 3\%$ accuracy at rated input current.

III Switch body



Rating	System voltage	12/24/36 kV
	Current	400/630A

Pad mounted SF6 gas Insulated Load Break Switch

The Pad-mounted SF6 gas Insulated Load Break Switch is designed to meet the increasing requirements of the electric utility industry, providing a safe, low-maintenance, long life, economical alternative device to perform lode switching on underground electrical distribution feeders. It is designed to be cabinet-mounted and is applicable to 25.8kV underground distribution lines. It is completely sealed, and has excellent insulation quality. The switch is easy to operate and inspect as well as being safe from accidents.

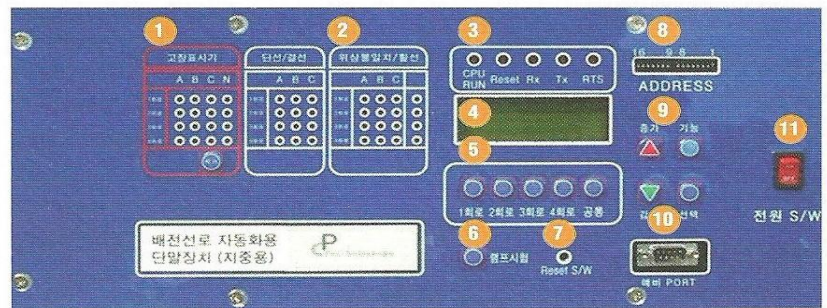


Refusal of a product

Type	characteristic
Rated voltage(kV)	25.8
Rated current(A)	600
Rated frequency(Hz)	60
Rated short-time current (kA)	12.5(R.M.S)/sec
Rated short circuit making current(kA)	32.5 (Peak)
short circuit making, active lode interrupting(sec)	≤1
Rated power frequency withstand voltage(kV)	dry :60kV,1min
Rated impulse withstand voltage(kV, 1.2×50μs)	125
control circuit	control power(V)
	AC 1 Φ 220V 60Hz
	allowable error
	85~110%
	Rated power frequency withstand voltage
Weight (Kg)	2kV, 1min
	mpulse wave withstand voltage
	6kV, 3kA
	automatism 4circuit
	400

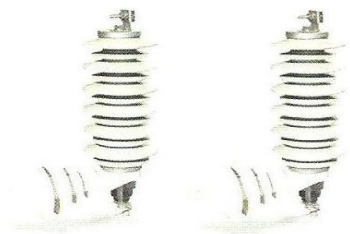
FRTU(Feeder Remote Terminal Unit)

Usually the distribution lines in the flow of current, voltage, power, instrumentation, and distribution lines to the load current occurs and the accident that state by detecting the device is transferred to and shares the device from the control command received, the accident site power distribution lines by opening the accident Is to minimize the role. In addition, all events that occur on distribution lines to provide storage and analysis of the cause of the accident, remote monitoring and load switch control from the state to process. The default communication protocol is used to dnp3.0



- 1 Fault current indicator(FI) lamps(A, B, C, N)
- 2 Indicator lamps for sync. fail and live line
- 3 Indicator lamps for monitoring CPU status (Run/Reset) and checking communication status(RX/TX/RTS)
- 4
- 5 Selector switch of each circuit to display on LCD
- 6 Lamps test switch
- 7 Reset switch for RTU
- 8 Dip switch for setting the address of RTU
- 9 Switch for setting operational data
- 10 RS-232 port
- 11 Power switch

Polymer Type Arrester

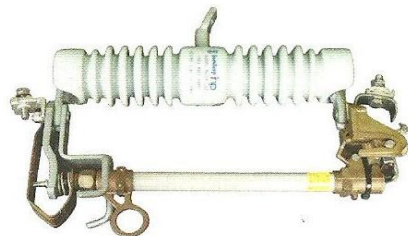


- Light weight due to high molecule polymer type, and very efficient to install and handle due to it is less surface damage.
- Excellent Sealing and isolating by winding the special element with glasstilber epoxy resin and better wetproof degradation compare with other products.
- It is designed to suit for the monolithic package, and as well as for in-door and/or out-door substation, incoming panel and distributing board.
- It is applied the improved metal oxide specific elements for excellent accelerated ageing and electrical characteristics especially ozone resistance.

Rating

Type	characteristic
Rated Voltage(kV)	18
Nominal Discharge Current(kA)	5
Maximum Continuous Operating Voltage(kV)	15.3
Working Voltage(V1mA, kV)	DC 22.90 ~

Cut Out Switch(C.O.S)



- Compact design and easy installation.
- Convenient replacement of a fuse unit and outstanding performance.
- Excellent operation regardless of fault current level.
- Long service life with corrosion resistant and water proof properties.

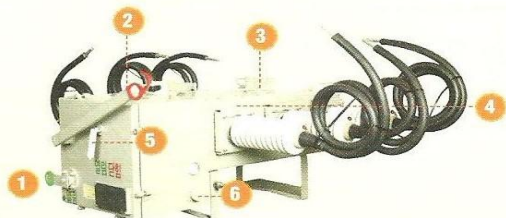
Rating

Type	characteristic
Rated voltage	25.8kV
Rated maximum voltage	27kV
Frame size	100AF
Rated breaking capacity	Sym 7.1kA
	Asym 10kA
Power frequency withstand voltage	Dry 42kV(1min.)
	Wet 36kV(10sec.)
Impulse withstand voltage(1.2x50sec)	125kV
8kg	8kg

SF6 GAS Automatic Sectionalizer Switch

GASS type electronically controlled sectionalizer is a self-contained, circuit-opening device used in conjunction with source-side protective devices, such as reclosers or circuit breakers, to automatically isolate faulted sections of electrical distribution systems from 15kV to 38kV.

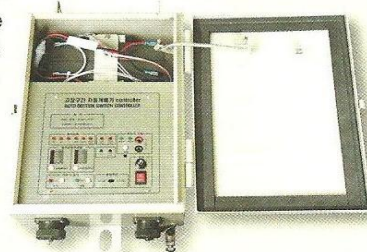
Sectionalizer body



- | | |
|----------------------------------|---|
| 1 Manual tripping handle | 4 Enclosure (Tank) |
| 2 Manual closing handle | 5 Contact Position Indicator |
| 3 Lifting lug & mounting bracket | 6 Female receptacle(14pins) for control cable |

Controller

The control shall be continuously operational under single contingency loss of either the external AC or the internal primary DC supply. Minimally, Close-Open capability shall be maintained under these conditions. These features shall be optionally available for substation applications.





ECO-FRIENDLY

Everyone's ECO-friendly space
where Dong Yang ECO becomes
a friend of the nature



FUTURE URBAN LIFE

Dong Yang will lead brand-new life style



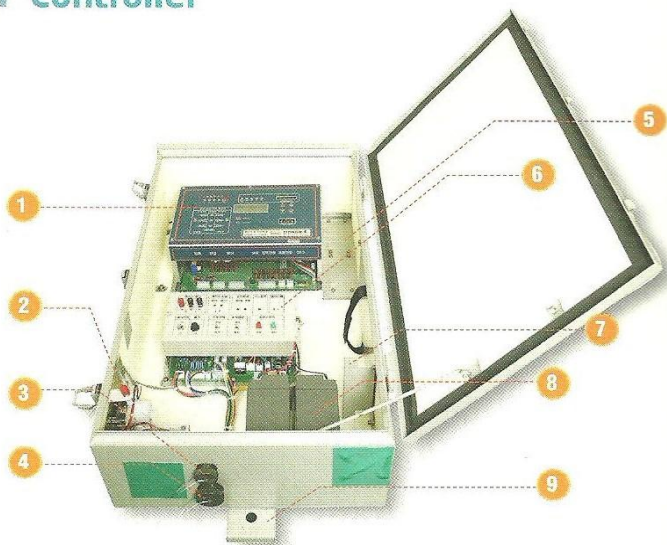
GREAT CREATIVE

Tomorrow for others
Today for Dong Yang ECC

Refusal of a product

Type	characteristic
Rated voltage(kV)	15/25.8
Rated current(A)	630
Rated frequency(Hz)	50
Rated short-time current(kA)	12.5(R.M.S)
Rated short circuit making current(kA)	32.5(Peak)
short circuit making, active lode interrupting(sec)	≤1
Rated power frequency withstand voltage(kV)	dry : 50/60(1Min) sow ater : 40/50 (10Sec)
Rated impulse withstand voltage(kV, 1.2×50μs)	110.150
control circuit	control power(V)
	AC 1 Ø 110/220V
	allowable error
	DC 24V
control circuit	Rated power frequency withstand voltage
	2kV, 1min
control circuit	impulse wave withstand voltage
	6kV, 3kA
Weight (Kg)	main body Control
	Cabinet
	150
	40

Controller



- | | |
|--|------------------------------------|
| 1 Reserved RTU | 5 Reserved space modem |
| 2 Door switch | 6 Control panel |
| 3 Male receptacle for external power input | 7 Reserved Space(Communication TR) |
| 4 Male receptacle for control cable | 8 Batteries(12Vx2, 18AH) |
| | 9 Mounting bracket |

Pad Mounted SF6 Gas Insulated Load Break Switch *Manual operation, 手動操作*

Dong Yang Pad Mounted Load Break Switch(Manual operation) is insulated with SF6 Gas and designed for load interrupting or sectionalizing for 25.8kV underground distribution system. The switch which is used SF6 Gas is designed to achieve optimum performance, reliability, long life and economical benefits, and offers the followings :

- SF6 Insulation and Interruption with puffer arc quenching
- Stainless steel enclosure permanently sealed for long life
- Safety features equipped with gas pressure gauge
- Equipped with the earth switch that discharge the charged current for worker's safety when maintain the switch or cable
- Manual open/close using by manual operating handle
- Checking Low Gas pressure using by pressure gauge in front of switch
- Completely sealed system with a stainless steel tank containing all the live parts and switching functions
- Indicating lamps whether the line is live or not.
- Viewing Windows that can check the earth switch's state.
- Optional function in the future of electrical safety locking device at low gas pressure



Rating and specification

Type	PAD -- Manual operation
Number of way and switch	3W3S
Ratings	
Rated Voltage	12kV / 25.8kV
Rated Normal current	630A
Rated frequency	50Hz / 60Hz
Rated break current	630A
Rated short time current(RMS)	12.5kA / 1sec.
Rated short circuit making current(Peak)	32.5kA / 5times.
Power frequency insulation level (dry/min)	
Main switch phase to ground	42kV / 60S
Main switch across open contacts	42kV / 60S
Earthing switch phase to ground	48kV / 60S
Earthing across open contacts	42kV / 60S
Impulse insulation level	
Main switch phase to ground	75kV / 1.2X50 μ s / 3times
Main switch across open contacts	85kV / 1.2X50 μ s / 3times
Earthing switch phase to ground	45kV / 1.2X50 μ s / 3times
Earthing across open contacts	85kV / 1.2X50 μ s / 3times
Number of operations	
Mechanical	1,000times
Electrical(at rated normal current)	100 times
Others	
Rated gas pressure at 20°C	0.05MPa.G
Applied standard	IEC 60265-1, ANSI / IEEE 386
Environmental service condition	
Ambient temperature	-40°C to 50°C
Relative humidity	up to 100 %
Altitude	up to 1000 meters above sea level

