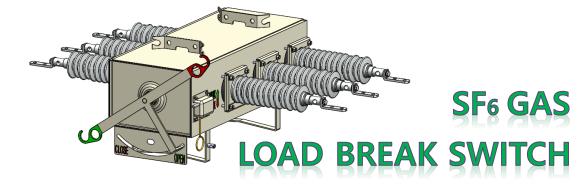
PRODUCT CATALOG



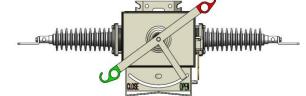
Quality stability!

Customer first!



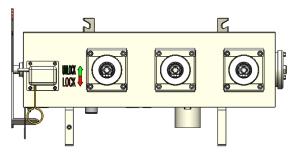
Introduction

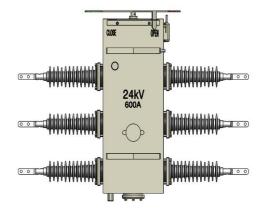
- Delcoco SF6 gas insulated load break switch was producted base on many experience
- Load break switches high electrical ratings ensure operation even under heavy loading or fault conditions.
- mechanical construction that enables them to perform reliably in all weather conditions



Characteristic Key point

- Wide operating temperatures range
- > High number of breaking operations at rated normal current
- > Compact design
- Reliable position indicator
- Puffer interrupter system
- Simple operation mechanism

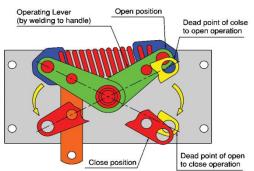




Operating Mechanism

 The switching contacts are driven by an over-center spring mechanism to ensure that the operating speed is always constant, independently of the speed of the operator.

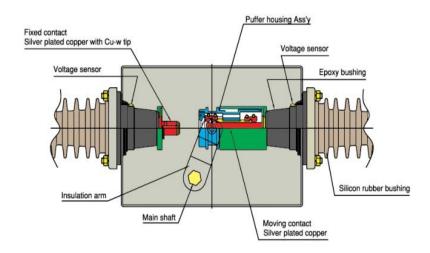
The mechanism can be driven by either a manual hookstick, electric motor or ground actuator (optional)



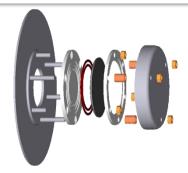


Switch Internal composition

- Load break switch tanks material is stainless steel and fill in SF6 GAS
- Puffer system and SF6 GAS have a brilliant arc exticution at normal current



Pressure relief device



• Relief membrane burst for safty at internal overpressure



Control cabinet

► Fault detection

Fault Detection (phase / Earth / SEF)

Cold load pickup & Inrush restraint

Open line detection & phase sync fail detection (Va-Vr)

Auto Sectionalizing

▶ Measurement

Voltage(Source/Load) & Current (3-phase RMS / True RMS)

Power (kVA, kW, kVar) & Energy (kWh, kVarh)

Power Factor, Frequency, Phase Angle

Harmonics (up to 32nd) & THD (Total Harmonic Distortion)

Control Position : Local / Remote

Switch Control: Open / Close (SBO / DO) after Select

FI (Fault Indication) Manual Reset, Battery Test

Status Monitoring

▶ Control

Switch Status: Open / Closed

Control Position: Local / Remote

Fault Indication (A/B/C/N/SEF/ Reverse Dir.)

Open Line & Sync Fail, Hot Line, Inrush Detected

Switch Handle Locked & Gas Pressure Low

External AC Power Loss, Enclosure Door Open

Battery Overdischarged & Charging Circuit Error

System Error (Self Diagnosis Result)

Counter

FRTU restart count, switch trip count

Fault count

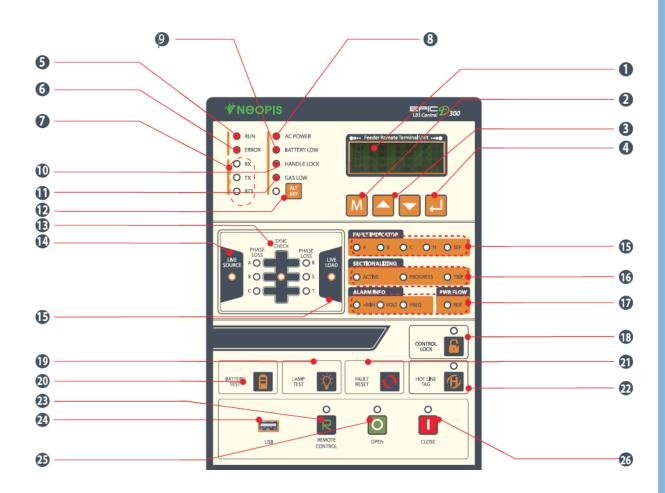
► Communication Protocols

SCADA: DNP3.0, IEC60870-5-101/104, IEC61850 (Optional)

Setting & Maintenance : Modbus







- 1 LCD
- 2 Menu Button
- 3 Up / Down (LCD Menu Operation) Button
- 4 Enter (LCD Menu Operation) Button
- 5 DSP Run LED
- 6 System Error (Self Diagnosis) LED
- 7 Communication Status LED's (RX/TX/RTS)
- 8 External AC Power On LED
- 9 Battery Test Result LED
- 10 Handle Lock LED
- 11 Gas Low LED
- 12 Alt Set Button & LED
- 13 Sync Check LED

- 14 Hot Line LED's (Load side)
- 15 Fault Indicator LED's (A/ B /C / N/ SEF)
- 16 Sectionalizing LED's (Active/Progress/Trip)
- 17 Alarm Information & Power Flow LED'S (FWD/ REV)
- 18 Control Lock Button & LED
- 19 Lamp Test Button
- 20 Battery Test Button
- 21 Fault Reset Button
- 22 Hot Line Tag Button & LED
- 23 Local / Remote (Control Position) Button & LED
- 24 USB Setting & Maintenance Port
- 25 Open (Switch Control Command) Button & LED
- 26 Close (Switch Control Command) Button & LED



Ratings

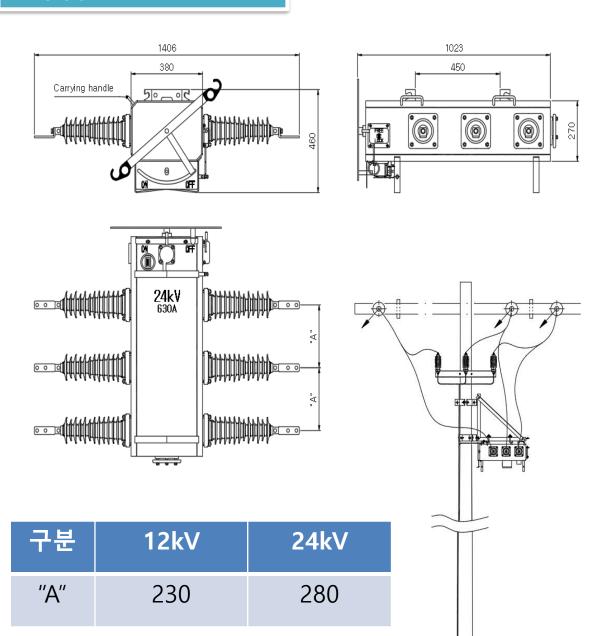
Rating			
Rated voltage	12	24	kV
Rated continuous current	400/630	630	Α
Rated making current	32.5	32.5	kApeak
Short time withstand current (1s)	12.5	12.5	kArms
Mechanical operations	5,000	5,000	times

Insulation level			
Rated lightning impulse withstand voltage	75	150	kV
Rated power frequency withstand voltage	42	60	kV /1min

Service condition		
Ambient temperature	-25 to 50	$^{\circ}$
Humidity	0 to 100	%
Altitude meters	3000	M



Dimension







四百代書 (1708年)