

GKLW-12 outdoor Pole mounted SF6 circuit breaker is used for rated voltage 12kV, rated current up to 630A and 50/60Hz power distribution network. It could be fitted 3 CTs and 1 Zero sequence CT, 6 voltage sensors at the same time It can gather in full range working parameter of power distribution network.

The box body of breaker is made of cold rolling SUS304L stainless steel, it just increases corrosion resistance and decrease SF6 gas yearly leakage rate. It has 3 sections current protection, to distinguish boundary fault, also has a real time monitoring of line load within its boundaries.

Environment condition

- Ambient temperature: -40℃ ~ +40℃
- Altitude: ≤3000m
- Wind pressure: ≤700Pa(equals to wind speed 34m/s)
- Air contamination degree: IV degree
- Earthquake intensity: ≤8 degree
- Not be polluted by corrosive or flammable gas, vapor and salt-fog.

Feature

- Adopt insulated cable incoming and outgoing line, raise electrical gap and creepage distance;
- Install manual interlock device, to prevent misoperation while power failure;
- Overvoltage & undervoltage protection;
- Triple reclosing, local & remote switching control;
- To cut off rapidly the fault of unidirectional grounding, interphase short circuit within its boundaries

Technical Data

Rated voltage		kV	12
Rated insulation level (SF6 gas under 0.25Mpa, 20℃)	Lightning impulse withstand voltage(full wave peak)		75
	1min power frequency withstand voltage: Phase to phase(earth)/fracture	kV	42/48
	Wet withstand voltage test		34
	Reverse-phase impulse withstand voltage		85
insulation level (SF6 gas under 0Mpa, 20℃)	1min power frequency withstand voltage		30
	1min reverse-phase withstand voltage	kV	30
	5min max. phase voltage		9
Rated current		A	630
Rated breaking current		kA	16 20
Breaking current under 0Mpa		A	630
Mechanical life		Times	6000
Rated operating sequence	Manual		(O)-180S-(CO)-180S-(CO)
	Motor		(O)-0.3S-(CO)-180S-(CO)
Rated closing current		kA	40 50
Peak withstand current		kA	40 50
Rated short time withstand current		kA	16/4s 20/4s
Rated cable charging breaking current		A	25
Rated line charging breaking current		A	16
Contact total travel		mm	58±2
Contact overtravel		mm	22±1

Three phase synchronism (C-O)		mm	≤1.5	
Main loop resistance per phase (excluding cable)		μΩ	Terminal	≤130
			Cable	≤650
Inherent closing time	Motor	S	≤0.06	
Inherent opening time	Manual	S	≤0.06	
	Motor		≤0.04	
Yearly SF6 gas leakage		Year	≤0.5%	
SF6 gas rated working pressure		MPa	0.35(20℃)	
SF6 gas min. working pressure		MPa	0.25(20℃)	
SF6 Weight	Manual	KG	122	
	Motor		130	
SF6 gas moisture content		ppm	≤150	

Outline Dimension

