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# Switch Disconnecter For Overhead

SF6-insulated pole mounted switch  
disconnecter

Instruction manual

SF6 Disconnecter



## Description General

PLBS series pole mounted load break switch is used in power system with 12/24/40.5kv rated voltage, 630A rated current and 50/60Hz. It can automatically isolate the failed section in the distribution line. It complies with IEC60265, IEC60694, IEC62271, GB 3804 standard.

The switch is equipped with the electric controller of the latest technology. It can be operated by hand, electric motor and remotely. The electric controller is installed in a stainless steel box and suitable for application in various climate conditions. In addition, wired and wireless modems can be installed in the box to realize remote monitor and control.

Easy installation on poles reduces the cost.



## Service conditions

Surrounding temperature: upper limit  $+50^{\circ}\text{C}$ , lower limit  $-40^{\circ}\text{C}$

Relative humidity: 100%

Altitude: no more than 3000m

Wind pressure no more than 700pa (equal to wind speed  $34\text{m/s}$ )。

Earthquake intensity: 8 degrees

Installation places: no fire, explosive risk, chemical corrosion or frequent severe vibration.

Pollution degree: III、IV

# Features

## -SF6 gas insulated

SF6 is a kind of electric insulation gas. It is non-poisonous, nonflammable and has good arcing feature.

## -various bushing types

Besides standard porcelain bushings, we can also supply rubber bushings.

## -Visible open and close status.

It is easy to see clearly the main contact position indicator ( green-open, red-close). This indicator is directly connected with main contact drive shaft assembly so that it can show contact status exactly.

## -fast operation

Spring energy storage operating mechanism can quickly open and close (less than 1 second).

## -remote control

Electronic controller is equipped. Users can operate locally, or operate at master station through FTU interface.

## - Firm and durable switch

The switch is made of firm, durable and anti-corrosive stainless steel so it has a long service life (30 years) and it is maintenance free. It is an ideal option for pole equipment.

## -standard

Each switch is filled with SF6 gas and is sealed. And it is tested according to IEC60265-1 (1988) 、 GB3804-1990 before delivery.



# Technical data

Item	Unit	Data			
Rated voltage	kV	12(15)	24	38(40.5)	
Rated frequency	Hz	50/60			
Rated current	A	630	630(400)		
Rated load breaking current	A	630	630(400)		
Rated closed loop breaking current	A	630	630(400)		
Rated peak withstand current	kA	50	31.5	31.5	
Rated short time withstand current	kA/s	20/4	12.5/4	12.5/4	
Rated short time making current	kA	50	31.5	31.5	
Rated cable charging breaking current	A	25			
Rated line charging breaking current	A	16			
magnetizing current	A	21			
1 min power frequency withstand voltage	Phase-phase	kV	42	64	95
	Phase-earth				
	Break	kV	50	79	110
Lightning impulse withstand voltage	Phase-phase	kV	75	150	195
	Phase-earth				
	Break	kV	85	150	215
Rated current breaking times	Times	≥400			
Rated working voltage	MPa	0.07	0.07	0.25	
Gas leakage rate	Annual	≤0.1%			
Mechanical life	Times	10000			

\* other ratings are available upon request.