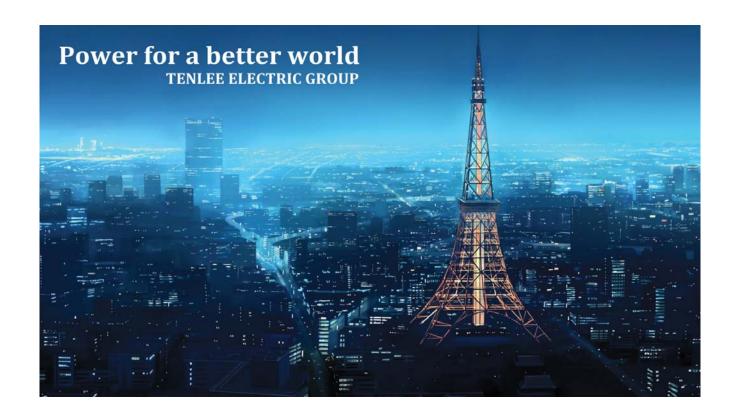
### **TENLEE ELECTRIC GROUP**



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GSC LBS
Gas-insulated indoor
switch disconnector for
secondary distribution.
Range from 12 kV to 24 kV
and 630 A.









## **Description General**

The GSC is a 12~24 kV medium voltage load break switch is designed for indoor or outdoor medium voltage switchgear panels.

The GSC epoxy resin enclosure can provide good insulation and resistance to moisture and environmental pollution.

The insulating housing is composed of upper shell and lower shell. It is tightly closed and filled with SF6 gas as insulation and arc quenching medium.

#### **Safety**

The epoxy resin enclosure is anti-corrosion, low leakage rate with viewing window with pressure release channel optional gas pressure meter Economy

high cost performance
low maintenance cost, 5000 times mechanical life
long service life, working for at least 30 years
Compactness and convenience
simplified design
small valume, reduced dimensions and weights
simple to incorporate
convenient installation and operation
Reliability
mature technology

A three position switch to prevent incorrect operating

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wide application

# The SF6 gas



#### SF6 GAS

a non-inflammable gas

SF6 is an inert gas and does not sustain combustion. The seal and the for-life lubrication of the rotary seals is provided by an oil film. In the MV circuit breaker field, for example,on more than 20 000 SF6 switchgear units installed by the French electrical utility (EDF), the annual fault rate related to seal problems is less than 0.05 %.

A very stable gas

The high stability of SF6 gas is due to the 6 covalent bonds of its molecule. an insulating gas

The dielectric strength of SF6 is superior to that of most known media, reaching 5 times that of air at a pressure of a few tenths of Mpa.

A breaking gas

SF6 is "the" breaking gas offering a number of advantages: 1.high capacity for carrying the heat produced by the arc. The arc is rapidly cooled by convection during arcing; 2.high radial thermal conduction and high electron capturing capacity; when the current passes through zero: the SF6 permits rapid heat exchange from the centre of the arc towards the exterior,the fluorine atoms, which are highly electronegative, act as veritable "traps" for electrons; since it is the electrons which are mainly responsible for electric conduction in the gas, the gap between the contacts recovers its initial dielectric strength through this electron capture phenomenon at current zero.

very low maintenance

The electrical contacts, housed in a sealedfor-life enclosure, require no specialmaintenance. The operating mechanism requires only minimum maintenance at intervals depending on the conditions of use. Under normal operating conditions, no preventive maintenance is required before 10 000 operations or 10 years of service.

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# Technical data

Item	Unit	Rating	
Rated voltage	KV	12	24
Rated frequency	Hz	50/60	
Rated current	A	630	
Rated load breaking current	A	630	
Rated cable charging breaking current	A	10	
Rated short circuit making current	KA	50	
Peak withstand current	KA	50	
Rated short circuit withstand current	KA	20	
Rated short circuit duration	S	3	
Power frequency withstand voltage, phase to phase/phase to	KV	42	50
ground (effective value)			
Power frequency withstand voltage,interrupting gap	KV	48	60
(effective value)			
Lightning impulse withstand voltage, phase to phase/phase to	KV	75	125
ground			
Lightning impulse withstand voltage,interrupting gap	KV	85	145
Mechanical life	Times	≥5000	≥2000
Protection degree		IP3X	

<sup>\* 36</sup>KV is available upon request

## service conditions:

Altitude	≤2000 meters		
Surrounding temperature	-10 ~+45 Celsius		
Relative humidity	Average daily should		
	not be more than 95%		
	Average monthly should		
	not be more than 90%		
No obvious dust, smoke, corrosive or flammable gas, vapour or salt pollution			
No frequent strenuous vibration			
Pls contact us if you have a different request			

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