

TENLEE ELECTRIC GROUP

Power for a better world
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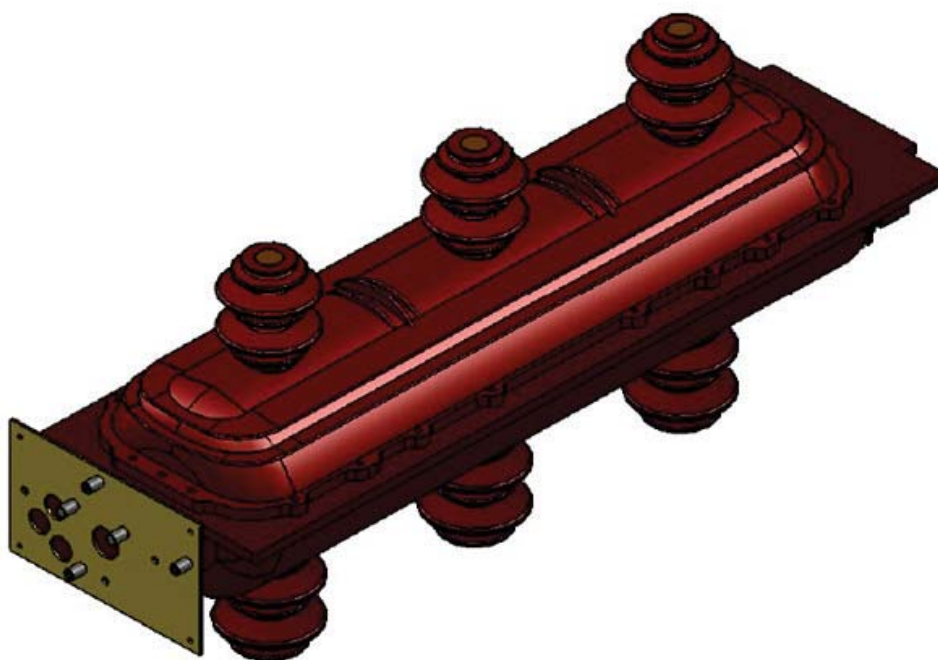
GSC LBS

Gas-insulated indoor
switch disconnecter for
secondary distribution.

--36 kV

--630 A

GSC LBS



Description General



The GSC-36 is a indoor high voltage load break switch with 36KV rated voltage.

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 volume, reduced dimensions and weights

simple to incorporate

convenient installation and operation

Reliability

mature technology

wide application

A three position switch to prevent incorrect operating

Standards

IEC 60265, IEC 60420, GB3804, GB16926

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 electro-negative, 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 sealed for-life enclosure, require no special maintenance. 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.

Technical data

Item		Unit	Rating
Rated voltage		KV	36
Rated frequency		HZ	50/60
Rated current		A	630
Rated cable charging breaking current		A	10
Rated short circuit making current (peak)		KA	50
Rated short circuit breaking current (peak)		KA	50
Peak withstand current		KA	50
Rated short circuit withstand current		KA	20
Rated short circuit duration		S	2
Power frequency withstand voltage	Wet	KV	95
	Dry	KV	110
Lightning impulse withstand voltage		KV	185/215
Mechanical life		Times	≥2000
Protection degree			IP3X

service conditions:

Altitude above sea level	≤2500 meters
Surrounding temperature	-35~+45 Celsius
Relative humidity	daily average should not be more than 95% monthly average 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	