

Load Break Switch

Product Catalog

Office

Central Park, APL Office Tower Lt. 10 Unit T.5,
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Indonesia's leading manufacturer of
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The Sulfur Hexafluoride (SF₆) gas-insulated Load Break Switch (LBS) is a protective device used for switching current in the event of overload fault.

During switching operation, whether opening (breaking) or closing (making) contacts, current is carried through an arc, and a transient recovery voltage (TRV) is formed across the contacts.

SF₆ gas, having excellent dielectric and arc-quenching properties, innovatively and efficiently extinguishes the arc from full load interruptions.

Features

SINTRA's pole-mounted SF₆ LBS, for overhead lines, operates at voltages up to 24kV. The LBS can be operated manually, or motorized either automatically or by remote control, depending on the customers' power line demands.

The LBS unit is fully protected by a stainless-steel enclosure, which can withstand corrosive, heavily polluted, and demanding environmental conditions

Advantages


COMPACT
DESIGN


EXCELLENT
LOAD
INTERRUPTION

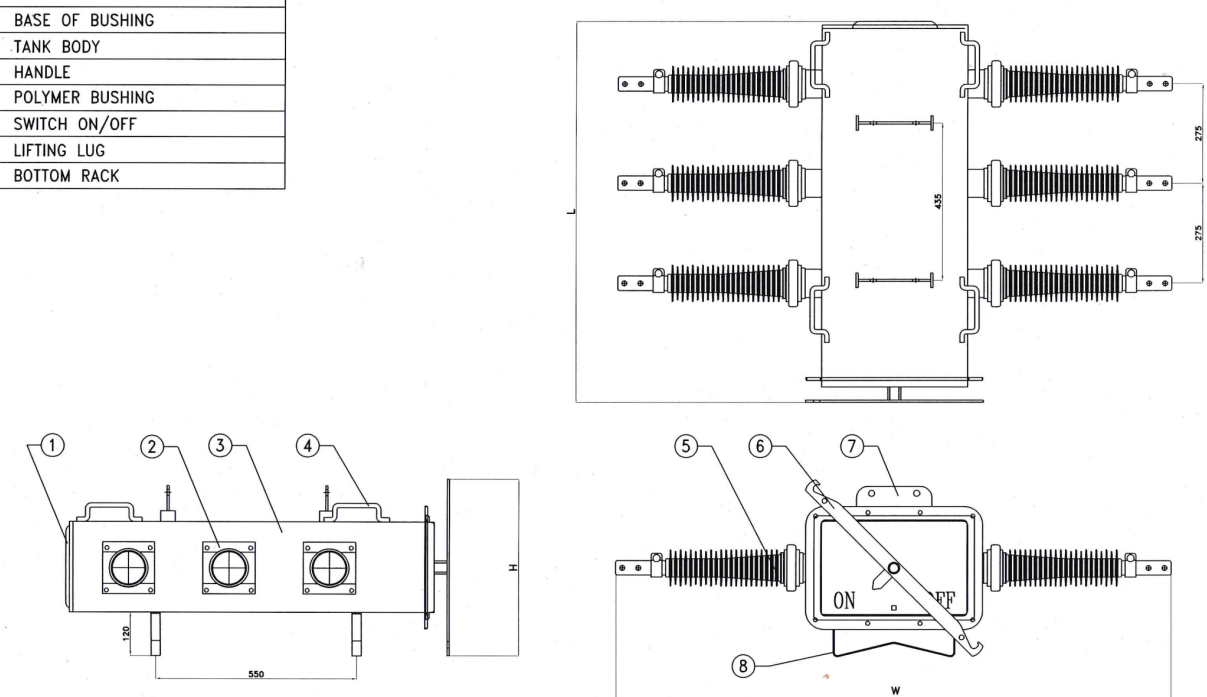

HIGH DEGREE
IP67
PROTECTION


MAINTENANCE
FREE


SAFE
&
RELIABLE


ECO
FRIENDLY

No	DESCRIPTION
1	PRESSURE RELIEF DEVICE
2	BASE OF BUSHING
3	TANK BODY
4	HANDLE
5	POLYMER BUSHING
6	SWITCH ON/OFF
7	LIFTING LUG
8	BOTTOM RACK



 **PT.SINTRA SINARINDO ELEKTRIK**

3Ø 24 kV 630 A 16 kA
LOAD BREAK SWITCH

Overall Dimension (mm) Tolerance ±5%	Length	1080
	Width	1400
	Height	480
Weight (kg)	125	

Description	Specification
Type	GPA24-ML/C (Motor Driving)
Number of Phases	3
Rated Voltage, U _r	24 kV
Rated Normal Current, I _r	630 A
Rate Frequency, f _r	50 Hz
Rated Short-Time Withstand Current, I _k	16 kA _{RMS} /3
Rated Peak Withstand Current, I _p	40 kA
Rated Mainly Active Load Breaking Current, TD _{load2}	630 A (500 times)
Rated Distribution Line Closed-Loop Breaking Current, TD _{loop}	630 A
Rated Cable-Charge Breaking Current, TD _{cc2}	16 A
Rated Line-Charge Breaking Current, TD _{lc}	1.5 A
Rated Short-Circuit Making Current, TD _{ma}	40 kA (5 times)
Rated Earth-Fault Breaking Current, I _{ef1}	48 A
Rated Cable- and Line-Charging Breaking Current under Earth-Fault Conditions, I _{ef2}	28 A
Rated Power-Frequency Withstand Voltage, U _p	Dry (1 min): 60 kV
	Wet (10 sec): 50 kV
	Across the isolating distance (1 min): 66 kV
Rated Lightning Impulse Withstand Voltage, U _L	150 kV
Mechanical Endurance	Electric: 5000 times
	Manual: 1000 times
Operation Method	Auto / Motor Driving / Manual
Operation Force	25 ± 5 kgf
Arc-Extinguishing Medium	SF ₆
SF ₆ Volume	74,000 cm ³
SF ₆ Weight	0.7 kg
Rated Filling Pressure for Insulation @ 20°C, P _{re}	59 kPA
Range of Normal Operation Pressure @ 20°C	36 - 59 kPA
Alarm Pressure for Insulation @ 20°C, P _{ae}	36 kPA
Low Gas Lock-Out Mechanism	36 kPA
Pressure Relief Device for Operation Pressure	395 ± 196 kPA
Control Source Voltage, U _a	AC 110 V - 220 V / DC 24 V
Mount Area	Outdoor
Degree of Protection of the Mechanism Box	IP67
Creepage Distance	633 mm
Weight	Switch Box Without Mounting: 125 kg
	Control Box: 24.5 kg
Classes	E3-M2
Applied Standards	IEC 62271-103 (2011)
	IEC 62271-1 (2011)
	IEC 60529 (2001)