



MAX SWITCHGEARS PVT LTD

LMAX Series Load Break Switchgear Panels



Corporate Office & Factory:

MAX SWITCHGEARS PRIVATE LIMITED

NO. 7/174, Vellanaipatti Post, Kalapatti Via, Coimbatore 641048, India.

Tel: +91 98430 82837, Email: info@maxswitchgears.com, Web: www.maxswitchgears.com



MAXLOADBREAK SWITCHES

MAX Load Break Switches and Isolators for voltages ranging from 3.3KV to 36KV offers a high tech standard and economy over the years for the switchgear manufacturer with dependability, reliability and versatility.

MAIN FEATURES OF MAX LBS

- ✓ **Very High Operating Reliability**
- ✓ **Simple Maintenance and Inspection**
- ✓ **High Dynamic and Thermal Strength**
- ✓ **Tested in CPRI as per IS-9920/IEC62271-2002**
- ✓ **Special Bottle Arc-chutes**
- ✓ **Current Interruption without visible arcs**
- ✓ **Simple Driving Mechanism**

The salient feature of MAX LBS is its ability to permit load connections even under a short circuit conditions without danger to the operating personnel. It complies with IEC, VDE and IS Standards.

A high speed (snap action) make and break ensures a fast switching action and the very special design of arc chutes having excellent extinguishing properties for both high and low currents. Suitability of mounting in horizontal or vertical plane etc. proves the versatility of these switches.

Due to the compact design of individual cubicles, and the feasibility of mounting the switches in different directions, economy in space is achieved, with ample scope for future extension.

The triple pole LBS can be used for switching of Transformer feeders, overhead lines, capacitor banks, cable feeders and Ring Mains.

For Protection against short circuits H.T. Fuses can be offered with the switch.

MAX LBS ACCESSORIES

FUSE PROVISION

Fuse mounting arrangement for providing DIN type or TAG type HT HRC Fuses for short circuit protection is offered as a factory fitted accessory.

DIN type or TAG type HT HRC fuses of reputed make suitable for Transformer / Distribution applications can be supplied along with the LBS as optional items. Details of rating etc depend upon application and make and necessary support to the customer in selecting the range of HT HRC fuses can be extended.

SHUNT TRIP COIL

Shunt trip coil release being offered for spring charged version Load Break Switches, are meant for remote tripping mainly and can be offered for different auxiliary voltages (indicated below) and the coils are of short time rated.

110V AC 50Hz

220V AC 50Hz

110V DC

220V DC

*Custom voltages on request.

AUXILIARY CONTACTS

This can be fitted on to the switch or isolator with a combination of 2NO + 2NC or 3NO + 3NC + 1 wiping contact.

EARTH SWITCH

This can be supplied as a factory assembled accessory with or without interlock with the main drive mechanism. The earthing switch can be mounted either on incoming or outgoing side or at the bottom of the fuse base.



TECHNICAL DETAILS OF MAX BRAND LBS

TECHNICAL DATA	LMAX12 12/630	LMAX 12 12/1250	LMAX 24 24/630
Rated Voltage	12 KV	12 KV	24 KV
Rated Frequency	50 Hz	50 Hz	50 Hz
Rated Current	630 A	1250 A	630 A
Rated Peak Current	80 KA	62.5 KA	80 KA
Rated Short time current / 1 sec.	31.5 KA	26.2 KA(3 sec)	26 KA
Rated Making Current	80 KA	62.5 KA	36 KA
Rated Breaking Current	630 A	800 A	630 A
Impulse Voltage, Wave Shape 1.2/50 MS			
i) To Earth	75 KV	75 KV	125 KV
ii) Between Poles	75 KV	75 KV	125 KV
iii) Between Open Contacts	85 KV	85 KV	145 KV
Power Frequency Test Voltage			
iv) To Earth	35 KV	35 KV	55 KV
v) Between Poles	35 KV	35 KV	55 KV
vi) Between Open Contacts	45 KV	45 KV	75 KV
Breaking of Capacitance Load	50 A	50 A	25 A
Closed Loop Breaking Current COS ϕ =0.31 ND	630 A	630 A	630 A
Rated Transformer Off Load Breaking Capacity	120 A	120 A	120 A
Rated Line Charging Breaking Capacity	90 A	90 A	90 A
Rated Cable Charging Breaking Capacity	90 A	90 A	90 A
Dimensions (Ref. Drg. Enclosed)			
i) Between Poles (Centers) mm	150-210	150-210	175-250
ii) Between Open Contacts mm	140	140	235
iii) Between live parts and earth mm	130	130	210
Making Time 35 M. Sec			
Arc Duration 5-20 M. Sec			

SELECTION TABLE

DESCRIPTION	TYPE REFERENCE
LMAX 12 Load Break Switches in 12kV630/1250A can be offered with pole distances of 150mm or 210mm in the following configuration.	
1. Basic ON/OFF Switch -Quick make, Quick Break	LMAX12/12/630-31.5
2. Switch with mechanical tripping and shunt trip assembly	LMAX 12/12MS/630-31.5
3. Switch with fuse base	LMAX 12/12F/630-31.5
4. with fuse Switch base and mechanical tripping feature	LMAX 12/12FM/630-21.5
5. Switch with fuse base, earth switch, mechanical tripping and shunt trip assembly	LMAX 12/12FEMS/630-31.5