



# KIRLOSKAR ELECTRIC

Committed to Innovation and Excellence



## MV SF6 BREAKER Upto 36kV, 3150A, 40kA



### Product Line of Kirloskar Electric

AC & DC Motors | Generators | Transformers | Switchgear | Drives | DG Sets | Projects | Engineering

ISO 9001:2008



**BUREAU  
VERITAS**

Kirloskar Electric has emerged as a leading manufacturer of electrical equipment in India over the past five decades. Our commitment to innovation and excellence has resulted in constant upgradation of technology.

SF6 is a non inflammable, colorless, odorless and non-toxic gas. It has an excellent insulating property, even at relatively low pressure (i.e. 0.05 MPa).

At atmospheric pressure SF6 has 2.5 times dielectric strength than that of air. The remarkable thermal and electro-negative properties of this gas has made it an ideal medium for current interruption.

Breaking in SF6 gas takes place without any arc chopping and without generation of over voltages. These characteristics ensure long electrical life of the circuit-breaker and limited dynamic, dielectric and thermal stresses on the installation.

The basic versions of the circuit-breakers are always three-pole and fitted with

- Manual/motorized operating mechanism.
- In-built trip free mechanism.
- In-built anti-pumping feature.
- Mechanical indicating device for closing spring charged/discharged.
- Mechanical indicating device for circuit-breaker open/closed.
- Closing & opening push button.
- Operation counter.
- Set of eight open/closed circuit-breaker auxiliary contacts.
- 48 pin auxiliary plug & socket.
- Lever for manually charging the closing springs.

## SALIENT FEATURES

- Compact in design and easy to install.
- Even in the event of complete gas leak our SF6 breakers are capable of breaking 100% normal current and withstand system voltage.
- Pressure monitoring switch is provided for each pole, thereby indication of gas leakage is possible.
- No degradation of main current carrying contacts, as there is separate current carrying and arcing contacts.
- Pole units filled with SF6 gas are sealed for life.
- The circuit breakers comprise of individually sealed separate interrupter units and compact operating mechanism.
- The circuit breaker features horizontal draw-out & isolation with positive racking mechanism.
- Fully type tested according to IEC 62271-100 / IS 13118.

TECHNICAL SPECIFICATIONS	SF6 - 12kV	SF6 - 36kV
Rated voltage (kV)	12kV	36kV
Rated frequency (Hz)	50Hz	50Hz
Basic insulation level (kVrms / kVp)	28 / 75-95(optional)	70 / 170
Short time withstand current for 3 sec (kA)	40	25
Operating sequence	O-0.3s-CO-3min-CO	O-0.3s-CO-3min-CO
Opening time	36 - 55 ms	36 - 55 ms
Closing time	65 - 95 ms	65 - 95 ms
Mechanical endurance class	M2	M2
Electrical endurance class	E1	E1
Rated supply of auxiliary/control circuit	24/110/220 V AC/DC	24/110/220 V AC/DC
Dimensions (approx) W x D x H (mm)	720 x 840 x 1000	975 x 805 x 1000

Kirloskar Electric reserves the rights to make changes in the product specifications/dimensions in the course of development



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