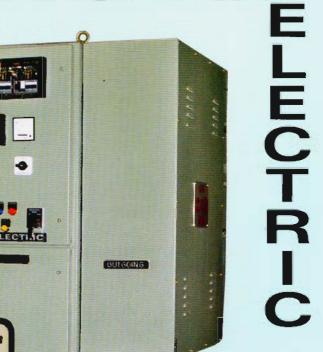
KIRLOSKAR









METAL CLAD M. V. SWITCHGEAR WITH VACUUM CIRCUIT BREAKER **RANGE - 3.3 TO 12kV**



Website: www.vrkec.com

ABOUT THE COMPANY

Kirloskar Electric has emerged as a leading manufacturer of Electrical Engineering Equipment over past five decades. Our product range include AC and DC rotating machines, Transformers, Power electronics and Switchgear. Our commitment to innovation and excellence has resulted in constant up-gradation of technology.

The products of Kirloskar Electric has been exported to various countries including U.K, U.S.A, Germany, Australia, South East and Middle East Asia, Japan etc.

A large network of zonal, regional and branch offices in India, along with various service and after-sales centers assure speedy and reliable customer service.

The company manufacturers Vacuum circuit breakers (VCBs) and metal-clad switchboards for wide ranging applications, from large Outdoor and Indoor substations to small stand-alone switching requirements of State electricity boards supply networks, commercial / residential construction, mining, power generation, cement, steel industries and for individual motors, transformers, computer loads, power station auxiliaries.

THE PRODUCT

The VCB and the switchboards are of optimized design for Indian local electrical supply condition and ambient.

All critical parts are manufactured on CNC machines and the finished products are subjected to strict quality tests in accordance with documented procedures, which are in line with international standards.

The breaker and switchboard is of compact design, sturdy construction and simple in operation with a proven motorized spring operated mechanism. This design ensures ease of operation, low cost maintenance and higher longevity.

It also has built-in mechanical interlocks for safety and the C.B compartment is so designed, that it ensures the inter changeability with identical circuit breakers. The cubicle design of I2KV,25KA,1250A is also compatible with our SF6 and Minimum Oil Circuit breakers (MOCB). The panels are fully compartmentalised and extensible on both sides, consisting of busbar chamber with adequate air clearances, PT compartment, CT and cable termination compartment, breaker compartment and metering chamber.

Modern CAD design tools and flexible manufacturing processes allow quick solutions and high degree customization for the switchboards to meet specific end-user requirements.

ADVANTAGES OF VCB

- Proven Hermetically sealed vacuum interrupters.
- Low contact erosion.
- Fast recovery of di-electric strength.
- Maintenance free vacuum Interrupters.
- Suitable for Auto re-closing duty.
- Small stroke length and less moving parts.

CONFORMANCE

Our VCB is fully type tested at C.P.R.I. Bangalore, as per IEC 60056 / 62271-100 / IS: 13118 including for auto re-closing and single phase test. The switchboard conforms to IEC 60298/IS:3427, IEC-60694/IS:12729

TESTS

All the breakers are subjected routine tests as per IEC-60056 and IS: 13118, the panel along with the breakers are subjected to routine tests as per IEC-60298 / IS: 3427, IEC:60694/IS:12729 before dispatch.





TECHNICAL SPECIFICATIONS - CUBICLE		INDOOR	OUTDOOR
Type		A12	A12 KIOSK
Rated Voltage	kV	3.6 / 7.2 / 12	
Basic Insulation level	kVrms/kVp	28/75	
Rated Frequency	Hz	50	
Rated Busbar current	A	upto 1250	
Short time current rating (1 or 3 Sec)	kA	upto 26.2	
Width x Depth x Height	mm	800 x 1650 x 2000	800 x 1650 x 2235
Degree of protection		IP4X	IP4XW
Weight With Circuit Breaker (approx)	Kg	800	900

TECHNICAL SPECIFICATIONS - VACUUM CIRCUIT BREAKER

Туре		C500
Rated Voltage	KV	12
Insulation Level	kVrms / kVp	28 / 75
Rated Current	A	630/1250
Breaking Capacity	kA	26.2
Making Capacity	kAp	65.5
Short time current (1 or 3 Sec)	kA	26.2
Operating Sequence		O-0.3 Sec - CO - 3 min - CO
Auxiliary Switch Contacts		8NO + 8NC
Spring Charging Motor Power	W	250
Spring Charging Motor Voltage	V	230 AC, 110 DC, 220 DC
Closing / Tripping Coil Power	W	180
Closing / Tripping Coil Voltage	V	24, 30, 48, 110, 220 DC
Weight (approx.)	Kg	150

Note: For other rating refer to factory

SALIENT FEATURES

CIRCUIT BREAKER

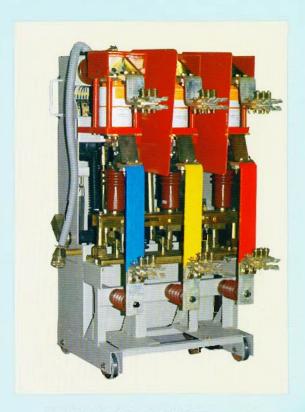
- Maintenance free design
- Horizontal Drawout and Isloation
- Positive racking mechanism
- Interlocks to prevent insertion/withdrawl of closed CB
- CB can operated in test or service position only
- Indentically rated CBs fully interchangeable
- Easy retro fitting with Cassette System
- Fully type tested as per IEC60056/ IS 13118 / IEC 62271-100

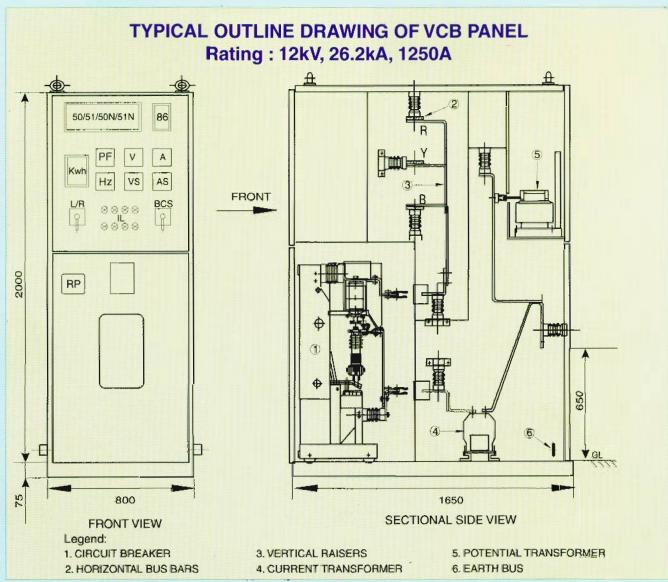
OPERATING MECHNISM

- Proven Spring Operated Mechanism
- Designed to close and latch
- Manual/ Motorised Option
- In built Trip Free Mechanism
- In built Anti Pumping feature
- Mechanical ON/OFF Indications

INDOOR/OUTDOOR CUBICLE

- Air Insulated, Metal clad construction using high quality steel
- Durable Epoxy Powder Coated Finish
- Compartmentalised and Compact design
- Easy accessibility for maintenance
- Meters, Relays and Controls located at convenient height
- Extensible on both sides
- Side Cable Box for Single panels
- Compatible with State of the art Numerical Protection
- Systems
- Fully type tested as per IEC60298/IS3427





Note: 600mm width panel can be offered for 630 A, 13.1 KA rating. All dimensions are in mm.

INFORMATION REQUIRED ALONG WITH ENQUIRY

Service requirement : Indoor / Outdoor duty

Rate Voltage kV **Rated Current** A

kA or MVA **Rated Capacity**

1 second / 3 seconds Short time rating

DC Control supply 24 / 30 / 48 / 110 / 220 V DC CT & PT : Ratio and other details. : Earthed / Unearthed / System Earthing

Resistance Earthed

: A / V / KW / Hz. / PF / KWH / Metering required

TVM etc

: Relays required Type of Protection

Auxiliary Equipment: Alarm Scheme, Annunciator etc.

You can place your enquiry online at www.vrkec.com

We reserve right to make changes in the products in the course of development.

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ZONAL / REGIONAL / BRANCH OFFICES

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KOLKATTA, BHUBANESWAR, GUWAHATI, JAMSHEDPUR

WEST : MUMBAI, NAGPUR, PUNE, AHMEDABAD, SURAT, DURG, INDORE

SOUTH: CHENNAI, COIMBATORE, MADURAI, COCHIN, HYDERABAD

VISAKHAPATNAM, VIJAYAWADA