



## MEDIUM VOLTAGE SWITCHGEAR - UPTO 24kV

A division of ACTOM Pty Ltd

# ACTOM

Formerly ALSTOM South Africa

# ACTOM Medium Voltage Switchgear

ACTOM Switchgear is a leading local designer, manufacturer and supplier of equipment, systems and services for medium voltage (MV) electricity distribution.

Our facility at Knights has developed a range of products which meets the highest international technical and quality standards. These products have been supplied to many countries worldwide.

ACTOM Switchgear After Sales provides comprehensive customer support comprising:

- 24 hour, seven days a week emergency repairs and spares service
- upgrading and modification of protection and metering systems
- conversion of oil circuit breakers to vacuum interruption breakers
- equipment refurbishment
- installation and commissioning
- operation and maintenance courses for customers, both in-house and on site.

The company is SABS ISO 9001:2000 accredited.



A switchgear unit being tested, making sure it complies to customer specifications..



ACTOM Switchgear has the technical expertise and field experience to advise and assist customers with MV system design and utilisation. The company is committed to continuous development, safety and quality enhancement of its products.

## Product range

### SBV & SBVE indoor equipment

The SBV & SBVE range are designed to meet virtually all service requirements and include single and double busbar configurations. Integral cable and busbar earthing are available options All SBV equipment is internal arc compliant in terms of the requirements of IEC i.e.:

- SBV equipment according to IEC 60298
- SBVE equipment according to IEC 62271-200

### Type SBV 3 & 3E

Maximum rating: 12 kV 2 500 A 40 kA 95 kV BIL. Available in single or double busbar configuration.

### Type SBV 4 & 4E

Maximum rating: 12 kV 2 000 A 31,5 kA 95 kV BIL. Available in single busbar configuration only, of low profile construction allowing overall height reduction.

### Type SBV 5 & 5E

Maximum rating: 12 kV 1 250 A 25 kA 95 kV BIL. The circuit breaker closing and tripping are solenoid operated and magnetically latched in the open or closed position using a permanent magnet system. Due to



the low component count the circuit breaker is virtually maintenance free. No-load switching in excess of 100 000 "close" operations have been achieved without noticeable wear to the operating mechanism. The circuit breaker was designed for utilisation in the low profile SBV 4 housing and is interchangeable with the SBV 4 circuit breaker and the SBV-C contactor.

### Type SBV-C

Maximum rating: 12 kV 400 A 3 kA 75/95 kV BIL. Fused vacuum contactor mounted on a withdrawable carriage and extensible on type SBV 3 and SBV 4 switchgear. A manually operated "cable" discharge switch is an option.

### Type SBV 24

Maximum rating: 24 kV 1 250A 25 kA 125 kV BIL. This version is for 22 kV indoor utilisation and is of single busbar configuration.

### Vacuum Interrupters

Vacuum interrupters are manufactured in a dedicated factory situated at Knights, the only facility of this type in the Southern Hemisphere. Sophisticated and technologically advanced manufacturing methods are used to produce vacuum interrupters that meet the exceptionally high standards required. The vacuum interrupters are used in ACTOM switchgear and also exported for use by other switchgear manufacturers.

### Outdoor equipment

ACTOM can offer locally developed and manufactured equipment as well as products imported from our overseas network. The local products include compact mini subs, extensible and non-extensible ring main units, Rhino compact substations, mobiles and skids for special applications. All equipment is fully type tested to the latest international and local specifications.

### Compact mini substations

Maximum rating: 22 kV up to 1 000 kVA. Miniature substations are available in mild steel, fibreglass or 3CR12 enclosures in type A or B configuration.



Rhino: 6 panel outdoor compact medium voltage substation.

### Ring main units

Ring main units are available with oil or SF6 insulating mediums.

The K-range oil switchgear provides a versatile and cost effective solution with ratings available for most distribution applications. The design allows for both extensible and non-extensible configurations.

The FBX-C and FBX-E is a range of extensible and non-extensible, 12kV and 24kV gas insulated switchgear.



### Rhino

The Rhino is a free standing, compact MV substation designed to provide alternative solutions to medium voltage network systems in that it replaces traditional brick built substations. The units can be customised to most requirements up to 24 kV.

### Mobiles and skids

These products are available for the mounting of MV switchgear for both surface and underground applications. Designs are based on specific customer specifications and requirements.



Miniature substation with IAC.