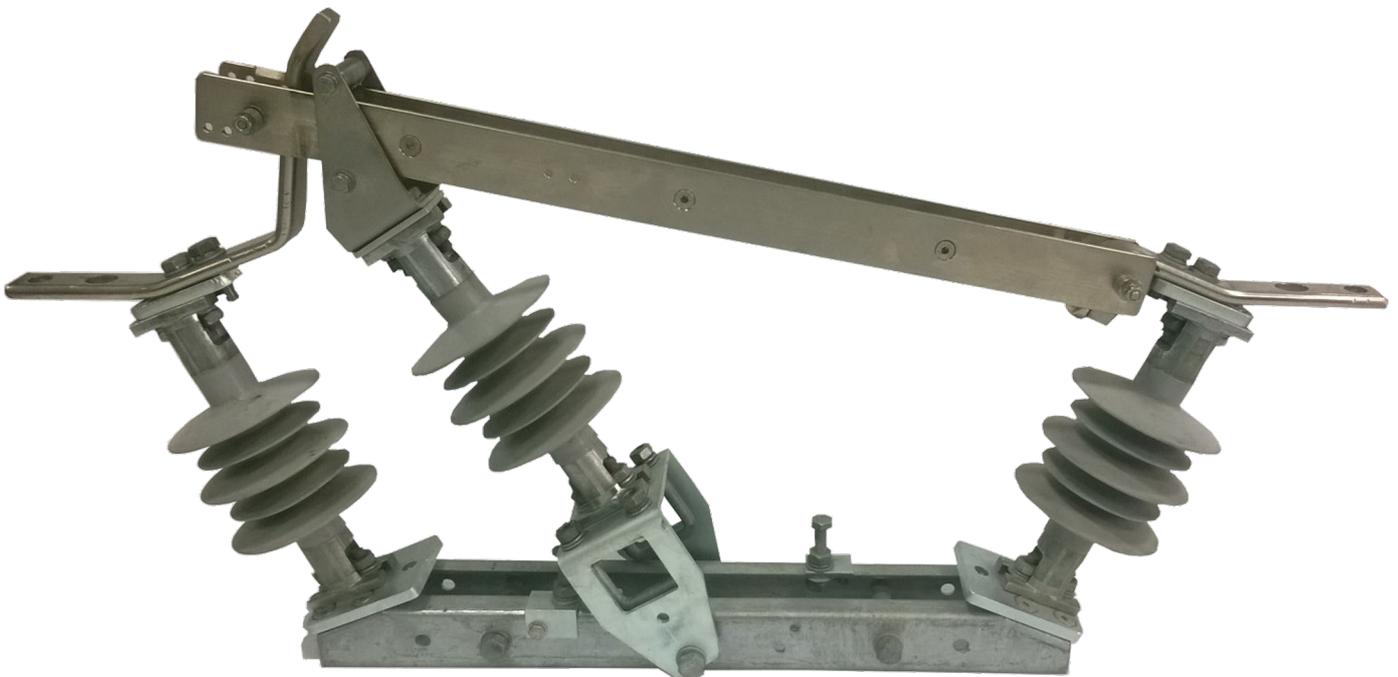


Rapier SAX

Air Break Switch Disconnecter
Up to 36 kV



Introduction to Rapier SAX

The Rapier AX Solid Blade air break switch disconnecter is an evolution of the existing Rapier RX and AX air break switch disconnecter.

The tin plated multiple copper laminate strips have been replaced with 2 plated copper bars which form the main current path and also the moving female contact, this complete air break switch disconnecter normally comprises of 3 single phase units ganged together with a common operating mechanism ensuring that all phases open and close at the same time.

The mounting base is common across all three voltage ranges – 12/15.5, 24 and 36 kV making design of mounting steelwork simpler.

Features

- Designed and manufactured to meet or exceed the requirements of IEC 62271
- Accommodates many customer specific requirements where they differ from IEC
- Silicone insulators with minimum of 25mm/kV creepage
- Plated HDHC copperwork for longevity of life
- Available in 12/15.5 kV, 24 kV and 36 kV voltage ranges
- Standard current ratings of up to 1250 A
- Short time withstand current of 25 kA rms for 3 seconds with 62.5 kA peak
- Standard fault make capacity of 3 kA rms with 7.5 kA peak
- Compact and robust construction
- Suitable for horizontal and vertical mounting
- Suitable for mounting pole top (above the line) or underslung (below the line)

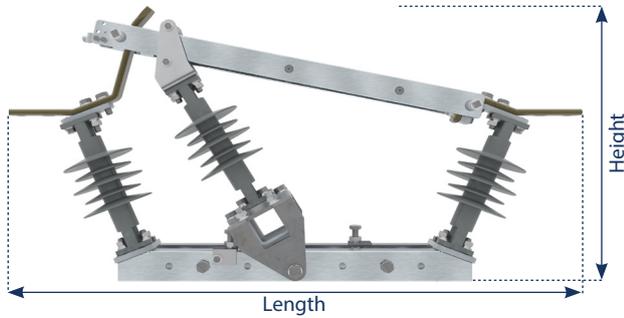


Accessories

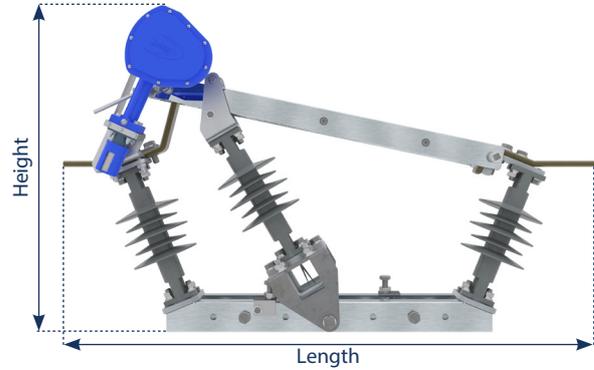
- Low level operating handle, high level hookstick mechanism or Independent Manual Spring (IMS) operating mechanism
- 10k A rms 25k A peak fault make capacity when combined with IMS mechanism
- Load break devices with breaking capacity of 630 A for on-load use
- Can be fitted with motor drive/RTU for remote operation
- Earth blades rated at 25 kA 3 sec for fitting to either side
- Self-latching shootbolt on hookstick mechanism can be fitted with safety lock flap for lockoff and point of isolation
- Mounting steelwork to suit single or double pole construction
- Can be fitted with drop out expulsion fuses to form a combination switch fuse

Technical details

Dimensions (mm)



	Height	Length	Width
12/15.5 kV	445	865	125
24 kV	510	925	125
38 kV	625	1025	125



	Height	Length	Width
12/15.5 kV	580	865	175
24 kV	640	925	175
38 kV	940	1025	175

Electrical performance

Technical Data				
Rated voltage	kV	12/15.5	24 kV	36 kV
Frequency	Hz	50/60	50/60	50/60
Rated normal current	A	630/800	630/800	630/1250
Power frequency withstand voltage (rms)				
Common wet/dry	kV	45/50	60/70	80/95
Insulating distance wet/dry	kV	50/55	66/77	88/105
Lightning Impulse Withstand Voltage (peak)				
Common	kV	110	150	200
Insulating distance	kV	125	165	220
Rated short time withstand current	kA	25	25	25
Rated duration of short circuit	sec	3	3	3
Rated peak withstand current	kA	62.5	62.5	62.5
Rated peak making current	kA	3	3	3
Rated peak making current	kA	7.5	7.5	7.5
Optional - rated making current	kA	13.1	10	10
Optional - rated peak making current	kA	32.75	25	25
Breaking Current				
Mainly active load	A	20	10	10
Closed loop	A	300	300	300
Mainly active load (optional)	A	630	630	630
Closed loop (optional)	A	630	630	630
Insulator type		Silicone rubber with alternated sheds		
Creepage distance		25mm/kV minimum		
Mechanical endurance class		M1 (2,000 operations)		
Electrical endurance class (load break)		E1 (10 operations)		
Electrical endurance class (earth switch)		E1 (2 operations)		

Lucy Electric worldwide offices

Lucy Electric Ltd

Howland Road, Thame, Oxfordshire,
OX9 3UJ, United Kingdom
Tel: +44 1844 267 267 General
Tel: +44 1844 267 222 Sales
Fax: +44 1844 267 223
Email: salesuk@lucyelectric.com

Lucy Middle East FZE

PO Box 17335, Jebel Ali, Dubai,
United Arab Emirates
Tel: +97 148 129 999
Fax: +97 148 129 900
Email: salesme@lucyelectric.com

Lucy Electric (Thailand) Ltd

500/64 Moo 3 Tasith, Pluak Daeng,
Rayong, 21140, Thailand
Tel: +66 (0)33 684 333
Email: salesth@lucyelectric.com

Lucy Switchgear Arabia Co. Ltd

Novotel Business Centre,
P.O. Box 35340, Dammam 31488,
Saudi Arabia
Tel: +966 3 8147 910
Fax: +966 3 8147 914
Email: salessa@lucyelectric.com

Lucy Electric South Africa (Pty) Ltd

Unit 2, Cranberry Industrial Park,
Cranberry Street, Laser Park, Honeydew,
2170, South Africa
Tel: +27 11 025 7490
Fax: +27 11 794 3277
Email: salesza@lucyelectric.com

Postal Address:

P.O. Box 1078, Honeydew, 2040

Lucy Electric India Private Ltd

F-10, MIDC
Ambad
Nasik 422010
India.
Tel: +91 253 2381603
Email: sales-IN-NSK@lucyelectric.com

Lucy Asia Pacific Sdn Bhd

L13A-03-03A, PJX-HM Shah Tower,
No16A Jalan Persiaran Barat,
46050 Petaling Jaya, Selangor, Malaysia
Tel: +603 74910700
Fax: +603 79316923
Email: salesmy@lucyelectric.com

Lucy Equipamentos Elétricos Ltda.

Av. das Araucárias 2558
Thomaz Coelho, CEP 83707-067,
Araucária Paraná State, Brazil
Tel: +55 (41) 2106 2801
Email: salesbrazil@lucyelectric.com

engineering intelligent solutions
www.lucyelectric.com