

**Award Winning  
Product  
Innovation &  
Design**

**//Air Break Switch  
Disconnectors**



**Allied Insulators**

# Independent Manual Double Spring Assisted ABSD

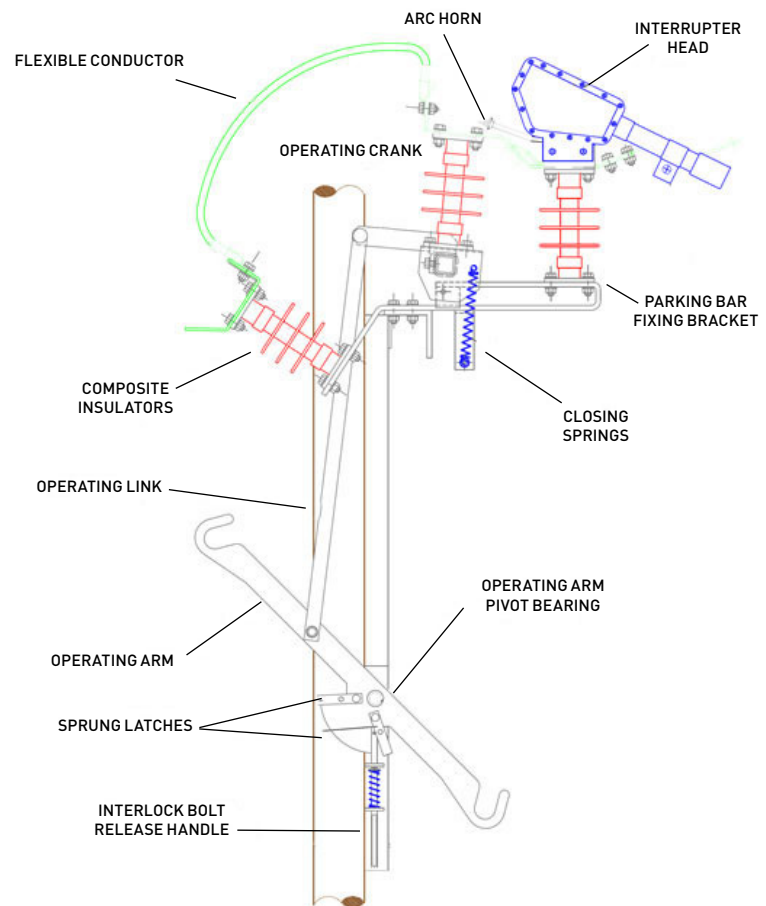
Following the success of the Allied Insulator products and UK manufacturing investment Allied are proud to launch a new range of air break switch disconnectors. These ABSD's have been developed in conjunction with a UK power company to meet the stringent demands of the UK distribution networks and overseas markets that demand similar high specifications and resilience.

Our range incorporates a modular design switch that can be configured to suit a variety of applications. Combining high performance and reliability, the switch disconnector can be a key element in rural distribution networks. The switch has been tested in accordance with international standards at accredited laboratories and the contact system has been proven in service for over 40 years.

Where operator safety is key the high level hookstick operation removes the need for managed earthing systems plus the spring assistance provides consistent swift closing operation.

Installation time is dramatically reduced due to the simplicity of the design and construction, simple 2 bolt pole fixings provide all the support required and contribute to this fast installation and commissioning.

Every ABSD is bench tested and is fully operable upon installation with no on-site calibration required. These disconnectors are fully manufactured in England and carry the Allied Insulators stamp of quality assurance.

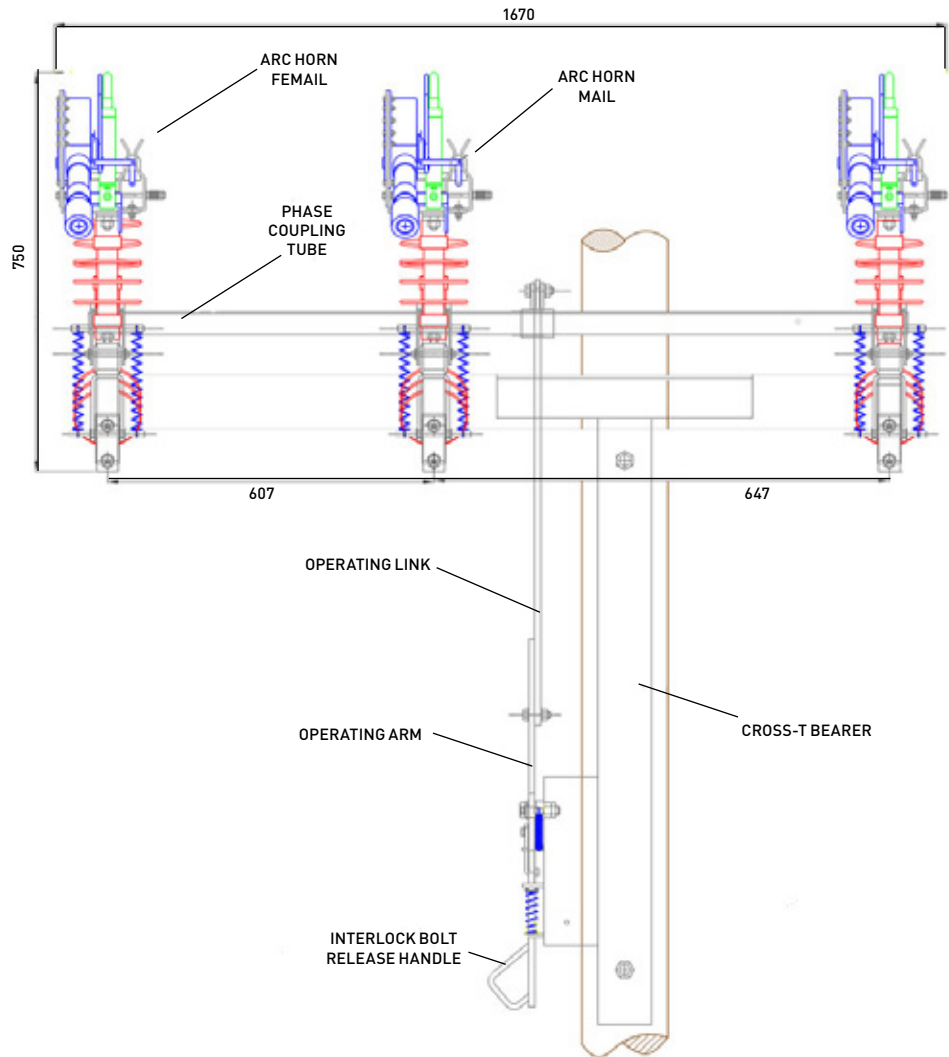
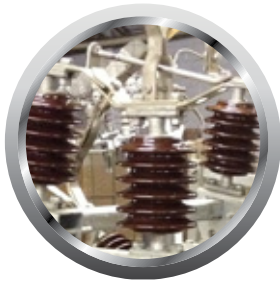


## Product Details & Functionality

Manufactured and tested in accordance with IEC 30265-1, IEC 60694, IEC 62271, BS EN 60129 and ENATS 41-36 at our ISO 9001 approved UK factory. All products are available in voltages from 11KV TO 36KV and ratings up to 630A.

**The Allied disconnector range can be supplied with the following options:**

- Silicon rubber Insulators as standard or porcelain insulators if preferred
- High Creepage Insulators for desert / coastal conditions
- Plain Break Arcing Horns
- Load Break Interrupter Heads for increased rating
- Independent manual closing mechanisms for improved capacity
- High level Hook Stick operation as standard, ground operated handle request
- Two or Three Stage interlock operations are available and can be adopted to meet the customer's operational safety rules



## Key Features

- Proven durable contact design through extensive UK experience
- Minimal lifetime maintenance requirements with Oil free brushing
- Lighter in construction to aid transportation and installation
- Simple pre-assembles kits reducing installation times, typical installation time less than 15 minutes
- Minimum tools required due to common sized fixing throughout the component parts
- Flexible enough to accommodate a wide range of pole positions and fixing to other structures
- Easily mounted both pole top or underslung, horizontal or vertical to a variety of different support structures
- Self-aligning spring loaded Contact Blades and Arcing Horn Blades for efficient contact operation

## Material Design

- Materials within the product are chosen to reflect the harsh environment within which they operate
- Many components where possible are Stainless Steel giving them the maximum protection against corrosion
- Tinned Copper main contact blades
- Braided flexible connections to improve flexibility and countless performance for endless operations
- Interrupter Heads ñ self-aligning for minimum on-site adjustment and efficient operation
- Galvanised supporting steel work in accordance with BS EN ISO1461



# Technical Information

MECHANISM	DEPENDENT MANUAL		INDEPENDENT MANUAL	
	ARCING HORNS	INTERRUPTER HEADS	ARCING HORNS	INTERRUPTER HEADS
Rated Voltage (Ur)	12kV / 36V	12kV / 36V	12kV / 36V	12kV / 36V
Number of Poles	3	3	3	3
Frequency (f)	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Rated Normal Current (Ir)	400 A	630 A	400 A	630 A
Rated Peak Withstand Current (Ip)	40 kA	40 kA	40 kA	40 kA
Rated Short-Circuit Making Current (Ima), Symmetrical Asymmetrical (peak)	3 kA 7.5 kA	3 kA 7.5 kA	10 kA 25 kA	10 kA 25 kA
Rated Lightning Impulse Withstand Voltage (Up)	110 kV	110 kV	110 kV	110 kV
Rated Mainley Active Load Breaking Current (I1)	400 A	630 A	400 A	630 A
Rated Closed Loop Breaking Current (I2a)	400 A	630 A	400 A	630 A
Rated Cable Charging Breaking Current (I4a)	5A	10 / 20A	5A	10 / 20A
Rated Line Charging Breaking Current (I4b)	1A	1 / 2A	1A	1 / 2A
Insulator Creepage Distance (min)	340 / 1300 mm	340 / 1300 mm	340 / 1300 mm	340 / 1300 mm

Interrupter Head Options - Arc Chutes or Self Contained Load Break Interrupters. A variety of configurations are available to meet specific customer requirements and site conditions, please contact us to discuss your particular applications or designs.

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