

ARIES-12

ARIES-12 range of ring main equipment has been specifically designed with ease of installation and operation in mind. ARIES-12 is a solid dielectric, maintenance free, touch proof design.

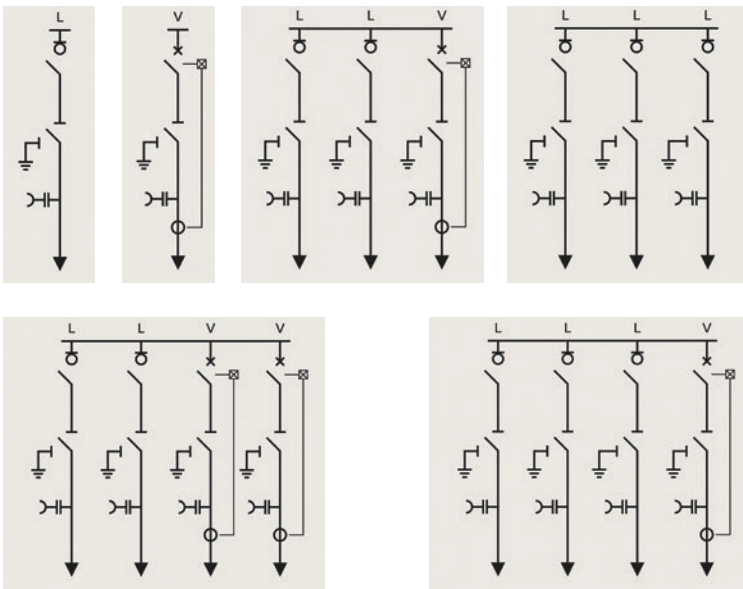
The ring main equipment is made up of various combinations containing load break switch disconnectors and a vacuum circuit breaker. Operator safety is the heart of the design with its clear mimic, robust interlocks and padlocking facilities preventing unauthorised operation.

The load break switch with cable earthing facility adopts a vacuum load break switch and three-position disconnector combination with fault make earthing switch. Reliable mechanical interlocking between vacuum load break switch and disconnector prevents misuse.

The circuit breaker adopts a vacuum circuit breaker and three position disconnector combination with fault make earthing switch. Reliable mechanical interlocking between vacuum circuit breaker and disconnector prevents misuse.



Combination examples

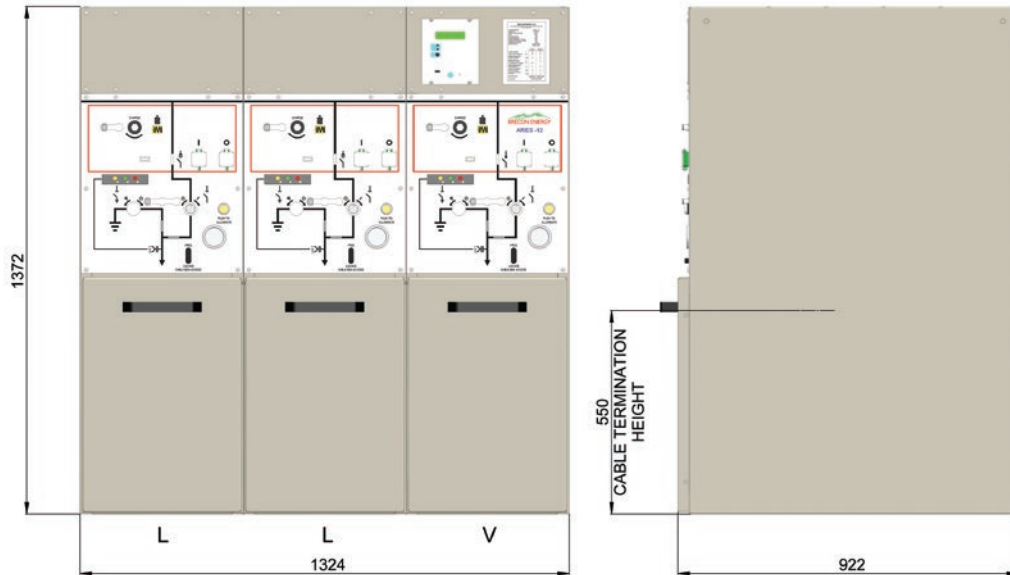


ARIES-12 ring main equipment can be supplied in many different configurations, from 1-way to 5-way in one cubicle.

It can be easily extended which allows an additional ring main unit, a circuit breaker or a single switch to be connected to the existing unit without the requirement for extended power outages or cable rework.

As an option, ARIES-12 can be supplied complete with remote operation on the load break switches and vacuum circuit breakers, thus providing a remote control facility for all circuits.

ARIES-12



Technical Specification

Items	Unit	AR-12-L	AR-12-V
Rated voltage	kV	12	12
Rated frequency	Hz	50	50
Rated power frequency withstand voltage (between phases, to earth) 1 minute dry	kV	28	28
Rated power frequency withstand voltage (across the isolating distance) 1 minute dry		38	38
Rated power frequency withstand voltage (control and auxiliary circuit) 1 minute dry		2	2
Rated lightning impulse voltage (between phases, to earth)	kVp	75	75
Rated lightning impulse voltage (across the isolating distance)		85	85
Rated normal current	A	630	630
Rated short-time current 3s	kA	20	20
Rated peak withstand current	kAp	50	50
Rated short circuit making current	kAp	50	50
Rated fault breaking current	kA	-	20
Rated active load breaking current	A	630	-
Rated closed loop breaking current	A	630	630
Mechanical Life	Load switch/circuit breaker	10000	10000
	Disconnecter/earthing switch	3000	3000
Resistance of main circuit	$\mu\Omega$	≤ 120	≤ 120
Rated control voltage for remote operation	Vdc	24	24
Operating temperature range	$^{\circ}\text{C}$	-40 to +50	-40 to +50
Maximum altitude above sea level	m	1000	1000
Degree of protection high voltage	IP65		
Degree of protection low voltage (Indoor)	IP4X		
Rated arc fault containment	IAC AF 20kA 1s		

Applicable Specifications

- IEC 62271-100
- IEC 62271-200
- IEC 60265-1
- EATS 41.36