

Solid-insulated ring main unit

XIRIA Plus

Compact, environmentally friendly and safe in use

XIRIA Plus is the name of Eaton's new solid insulated RMU. XIRIA Plus provides safe, reliable and efficient solutions for all applications in the medium voltage secondary distribution network.



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Features and benefits

Safe in use

- Visible isolation by means of inspection windows in the front
- Compartments protected against penetration of objects
- Capacitive voltage detection system for verification of safe isolation from supply
- Logical mechanical and electrical interlocks prevent misoperation

Smart grid readiness

Designed to integrate solutions for sensing, monitoring and remote control for feeder automation and load management purposes.

Environmentally friendly

- Minimized number of components
- Environmental-friendly design with respect to the materials used
- No use of SF6-gas for switching and insulation
- Minimal number of transition points in primary design enable low energy loss during operation
- Only re-usable and / or recyclable materials used

User friendly

- Cable connection and user interfaces for operation on the same front side of the panel
- Ergonomic cable connection height
- A customized low voltage compartment is optional
- Clear and simple straightforward operation panels

Low total cost of ownership

Low initial costs due to:

- Panels with only 350mm or 450mm width depending on function
- Cable connection from the front / wall standing arrangement

No costs during service due to:

- Robust design with minimum number of parts (routine tested in factory)
- Long-life solid insulated components as insulation medium
- Maintenance free vacuum circuit-breaker and loadbreak switch
- Primary parts and mechanism installed in a fully sealed for life enclosed housing
- No SF6 pressure checks

Low end of life disposal cost due to:

- Vacuum switching technology
- Solid insulation with air as isolating medium
- Recycling or re-use of materials

Operation

- Complete design certified in accordance with GB and DL standards
- Arc fault tested according GB3906
- Quality assurance in accordance with ISO 9001
- Single pole insulated primary parts within one compartment
- Primary parts and mechanism in sealed for life fully enclosed housing
- Configurations up to 6 functions in one tank.
- Field extendible for projects requiring more than six functions.

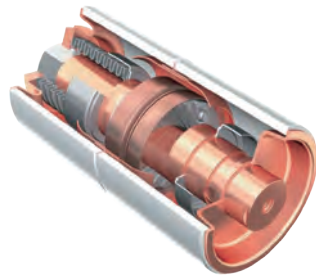


Like all Eaton medium voltage switchgear, XIRIA Plus is designed to be an environmentally friendly product throughout the whole value chain.

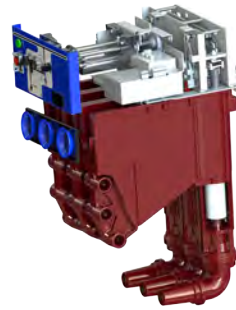
One of the key strategic initiatives of Eaton is to provide environmentally friendly products. Eaton achieves this by looking at the total product chain, from design to dismantling and recycling. The optimal situation is that for each phase there is no damage to the environment and at the end, all materials can be re-used again in the same product (the Cradle-to-Cradle principle). The product chain can be divided into four main blocks. These blocks are the design (materials used) of the product, the assembly of the product, the usage phase of the product and finally the dismantling of the product.

Main construction

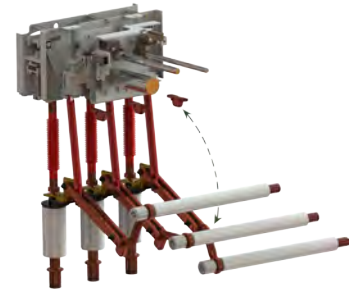
Vacuum technology features



Solid insulation features



3-position change-over switch and busbars



XIRIA Plus ratings

Item		Ratings
General		
Rated voltage	kV	12
Impulse withstand voltage	kV	95 (phase to phase/earth), 110 (Isolation gap)
Power frequency withstand voltage	kV-1m	42 (phase to phase/earth), 48 (Isolation gap)
Rated frequency	Hz	50
Internal arc classification (IAC)	kA-s	AFLR 20-1
Ambient air temperature range	°C	-25 - +40
Load break switches		
Rated normal current	A	630
Rated short-circuit making current	kA	50, 63
Rated short-time withstand current	kA-s	20-4, 25-2
Mechanical endurance class		M2 10000 x
Electrical endurance class		E2 100 x
Circuit-breakers		
Rated normal current	A	630
Rated breaking current	kA	20
Rated short-circuit making current	kA	50
Mechanical endurance class		M2 10000 x
Electrical endurance class		E2
Rated short-time withstand current	kA-s	20-4
Fuse-switch panel		
Rated normal current	A	100
Max. rated current of the optional fuse	A	125
Rated transfer current	A	3150

For others, please contact local Eaton sales representative.

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 Printed in China
 October 2012