

# MEVOCO

MEDIUM VOLTAGE COMPONENTS

THE ONE STOP SHOP FOR MEDIUM-VOLTAGE COMPONENTS



## VA-2/VAS-2 Circuit Breakers

Reliable protection of your distribution network

Mevoco's next-generation VA-2 vacuum circuit breaker proves that Mevoco is once again a safe and reliable partner for medium-voltage components

[www.mevoco.be](http://www.mevoco.be)

## VA-2 Concept

The Mevoco vacuum circuit breaker, like all the other components of the product range, is based on the DF-2 modular switchgear concept, synonymous with high reliability and safety.

The VA-2 concept offers the security and reliability with a large spectrum of possibilities in the range of 12 to 24 kV.

The Mevoco vacuum circuit breaker is available in two main versions:

- VA-2 with lateral arrangement;
- VA-2RP with lateral arrangement and integrated digital protection relay.

## Key Features

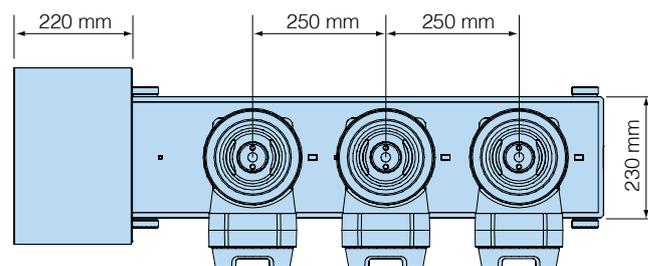
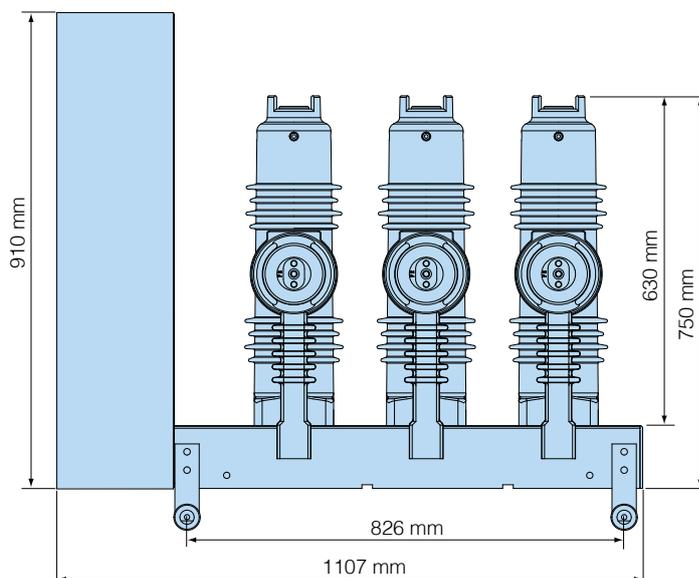
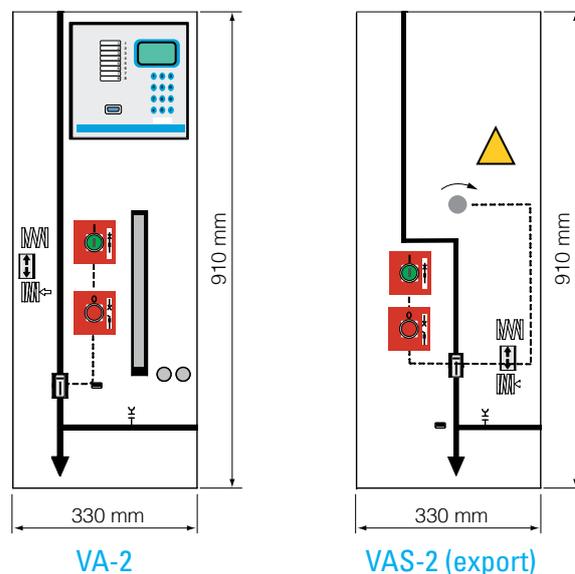
- Complete switching device for distribution switchgear
- Made for integration in SGC switchgears
- Available in a wide spectrum of possibilities
- Vacuum interrupters of the latest generation
- Great withstand to extreme temperatures
- Mechanical spring drive with exceptional longevity
- Maintenance-free

## Characteristics of the VA-2

- Epoxy casted housing with protected ventilation openings, developed to be used in the more severe climatic conditions (IEC 60932 method A – Level 2)
- State of the art vacuum interrupters
- Spring drive mechanism
- Developed and manufactured in line with the ISO9001 standards
- IEC Type tested at KEMA, according the latest IEC 62271-100

## Characteristics of the VA-2RP

- Replace a MV circuit breaker with a direct relay protection
- Multifunctional digital protection with a large spectrum of functionalities
- Without auxiliary source. Energy is provided by the CT's that can be mounted on the left or on the right side of the circuit breaker.
- Opening release mechanically winded up at the end of the opening cycle of the circuit breaker



### Explanation of the used codification

Ex: VA-2/12-25/12L and VA-2RP/12-25/12L

VA-2:	Circuit breaker type
RP	Protection relay
12	Voltage in kV
25	Rated short time current 1 sec
8	Abbreviation of the nominal current
L	Lateral arrangement

## Technical Specifications

VA-2 / VA-2RP (12 - 17.5 - 24 kV)	UNIT	400A	630A	800A	1250A
Applicable standards	-				
Rated voltage	kV	12 - 17.5 - 24	12 - 17.5 - 24	12 - 17.5 - 24	12 - 17.5 - 24
Rated power frequency withstand voltage 1 min	kV	28 - 38 - 50	28 - 38 - 50	28 - 38 - 50	28 - 38 - 50
Rated lightning impulse withstand voltage 1.2/50 µs	kV	75 - 95 - 125	75 - 95 - 125	75 - 95 - 125	75 - 95 - 125
Rated frequency	Hz	50/60	50/60	50/60	50/60
Rated current	A	400	630	800	1250
Rated short time current	kA	12.5 - 20 - 25	12.5 - 20 - 25	12.5 - 20 - 25	12.5 - 20 - 25
Rated duration of the short circuit	s	3	3	3	3
Rated peak withstand current	kA	31.5 - 50 - 63	31.5 - 50 - 63	31.5 - 50 - 63	31.5 - 50 - 63
Short circuit breaking current at ≤ Un	kA	12.5 - 20 - 25	12.5 - 20 - 25	12.5 - 20 - 25	12.5 - 20 - 25
DC Component	%	36	36	36	36
Short circuit making current	kÂ	31.5 - 50 - 63	31.5 - 50 - 63	31.5 - 50 - 63	31.5 - 50 - 63
Rated operating sequence		0 - 0.3s - CO - 15s - CO	0 - 0.3s - CO - 15s - CO	0 - 0.3s - CO - 15s - CO	0 - 0.3s - CO - 15s - CO
Rated single capacitor bank breaking current at Un en fn = 50[Hz]	A	400	400	400	400
Over voltage factor		< 2.5	< 2.5	< 2.5	< 2.5
Rated breaking cable charging current	A	25	25	25	25
Over voltage factor	%	< 4	< 4	< 4	< 4
Rated off load transformer breaking current	A	12.5	12.5	12.5	12.5
Over voltage factor		< 4	< 4	< 4	< 4
Rated total closing time	ms	50	50	50	50
Rated total opening time	ms	42	42	42	42
Rated total breaking time	ms	60	60	60	60
Mechanical life time in number of CO operations		30,000	30,000	30,000	30,000
Life time of the vacuum interrupter	years	30	30	30	30
Electrical life time of the vacuum interrupter		10,000	10,000	10,000	10,000
Weight	kg	118	121	121	124



For more information on  
VA-2/VAS-2 or our other products,  
contact our sales team  
➔ [sales@mevoco.be](mailto:sales@mevoco.be)

## Available range

Type	Rated Voltage (kV)	Rated Current (A)	Breaking capacity (kA)
VA-2 12-25/8L	12	800	25
VA-2 12-25/12L	12	1250	25
VA-2 17.5-25/8L	17.5	800	25
VA-2 17.5-25/12L	17.5	1250	25
VA-2 24-20/8L	24	800	20
VA-2 24-20/12L	24	1250	20
VA-2RP 12-25/8L	12	800	25
VA-2RP 12-25/12L	12	1250	25
VA-2RP 17.5-25/8L	17.5	800	25
VA-2RP 17.5-25/12L	17.5	1250	25

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Mevoco spearheads a drive for the development of medium-voltage components that excel in quality and safety. Mevoco's range of products includes load break switches, circuit breakers, voltage detectors, a relay, and an arc-killer. Among its innovations, Mevoco created the Arc-killer SV-25, a patented mechanism that dramatically improves safety in medium-voltage cubicles. It maximizes not only operator safety, but it reduces material damage as well. The story lies at the heart of a vision for safer medium-voltage components. Mevoco is located in Belgium, at the heart of an international transportation network. It ships products worldwide.



## Mevoco nv

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## Our products



**RV 44**  
Load break switch



**RV 50**  
Load break switch



**RV 53**  
Load break switch



**RV 54**  
Load break switch  
(submersible)



**HR-2 / HR-3**  
(Non-)integrated  
voltage detector



**VA-2**  
Vacuum circuit breaker



**SV-25**  
Arc-killer



**RP600**  
Digital Protection Relay