

# MEVOCO

MEDIUM VOLTAGE COMPONENTS



## VA-2(RP) Circuit Breaker

Reliable protection of your secondary distribution network

Mevoco's high end VA-2(RP) range of vacuum circuit breakers with extended mechanical endurance proves that Mevoco is your safe and most reliable partner for medium voltage components.

THE ONE STOP SHOP FOR MEDIUM VOLTAGE COMPONENTS

## VA-2(RP) Concept

The Mevoco vacuum circuit breaker, likewise other components of the product range, is especially designed for use in modular switchgear, synonymous with high reliability and safety. The VA-2(RP) 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, integrated digital protection relay and side mounted CT's

## Key Features

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

## Characteristics of the VA-2

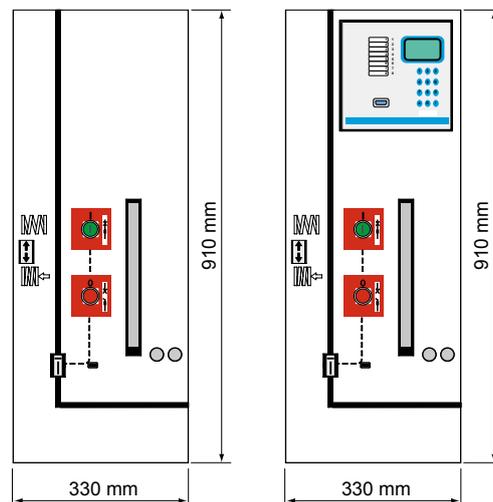
- Epoxy casted housing with protected ventilation openings, developed to be used in the more severe climatic conditions (IEC 62271-304 method A – Level 2)
- State of the art vacuum interrupters
- Spring drive mechanism
- Integrated lever for manual charging of the springs
- Operation counter
- Developed and manufactured in line with 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
- Side mounted CT L/R with multiple ratio 50/1,150/1,200/1,400/1,600/1
- Operation counter

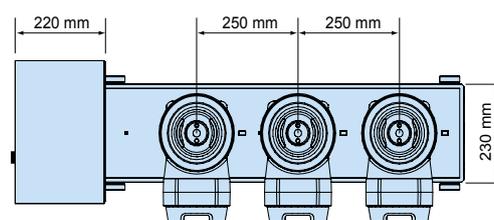
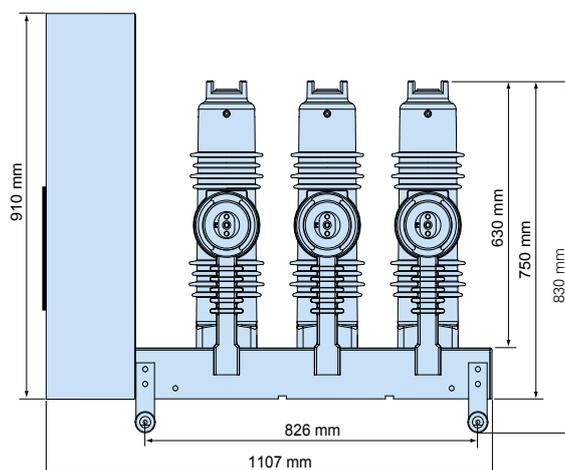
## Options

- Motor operation 24-48-110 VDC/110-220 VAC
- Aux contacts (optionally spring charged)
- Key interlock
- Closing coil
- Tripping coil (x2)
- Arc-killer



VA-2

VA-2RP



### Explanation of the codification

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

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

## Technical Specifications

VA-2(RP) (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 endurance	class*	M2 (10.000)	M2 (10.000)	M2 (10.000)	M2 (10.000)
Life time of the vacuum interrupter	years	30	30	30	30
Electrical endurance	class	E2	E2	E2	E2
Weight	kg	118	121	121	124

\* CO operations



For more information on  
VA-2(RP) or our other products,  
contact our engineers

➡ [info@mevoco.be](mailto:info@mevoco.be)

## Part of 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

## MEDIUM VOLTAGE COMPONENTS

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, we ship products worldwide.



### Mevoco nv

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## Our product range



**RV 44**  
 Load break switch  
 two positions



**VAS-2(RP)**  
 Vacuum circuit  
 breaker



**RP600**  
 Digital protection relay



**RV 53**  
 Load break switch  
 three positions



**VA-2(RP)**  
 Vacuum circuit  
 breaker



**HR-2**  
 Plugable  
 voltage detector



**RV 50**  
 Load break switch  
 for gas filled compartment



**VA-3**  
 Vacuum circuit breaker  
 for gas filled compartment



**HR-3**  
 Integrated  
 voltage detector



**DA / DP**  
 Mechanisms for load  
 break switches



**SV-25**  
 Arc-killer



**SV-50**  
 Arc-killer  
 for gas filled compartment



**RV 53**  
 Load break switch  
 assemblies for OEM



**RV 54**  
 Fast switch  
 submersible



**RV 64**  
 Insulating and earthing switch  
 submersible