

# MEVOCO

MEDIUM VOLTAGE COMPONENTS



## VAS-2(RP) Circuit Breaker

Reliable protection of your secondary distribution network

Mevoco's basic VAS-2(RP) range of vacuum circuit breakers proves that Mevoco is your safe and reliable partner for medium voltage components.

THE ONE STOP SHOP FOR MEDIUM VOLTAGE COMPONENTS

## ⚡ VAS-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 VAS-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:

- VAS-2 with lateral arrangement
- VAS-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
- Vacuum interrupters of the latest generation
- Mechanical spring drive with exceptional longevity
- Maintenance-free

## ⚡ Characteristics of the VAS-2

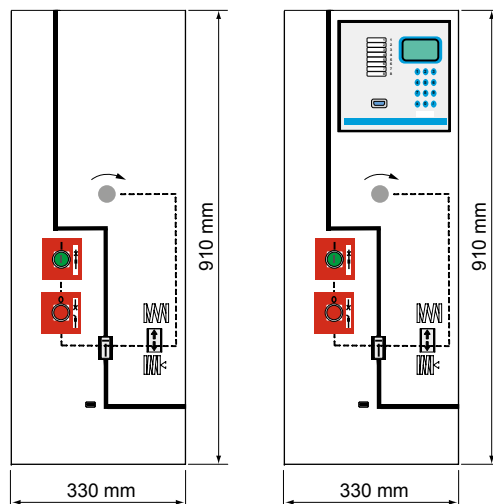
- Epoxy casted housing with protected ventilation openings, developed to be used in the more severe climatic conditions (IEC 62271-304 method A – Level 2)
- State of the art vacuum interrupters
- Spring drive mechanism
- Operation counter
- Developed and manufactured in line with ISO9001 standards

## ⚡ Characteristics of the VAS-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

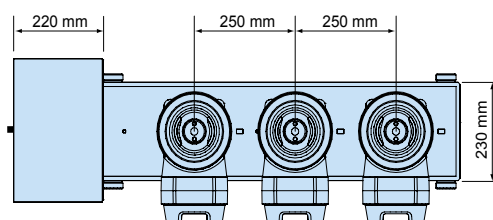
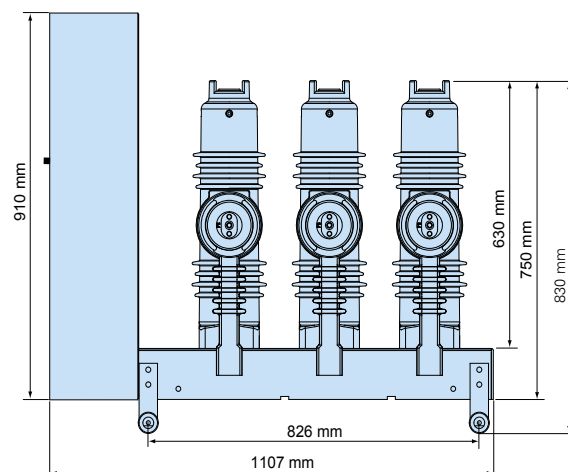
## ⚡ Options

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



VAS-2

VAS-2RP



### Explanation of the codification

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

VAS-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

VAS-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 $\mu$ s	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 $\leq U_n$	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	kA	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 $U_n$ en $f_n = 50$ [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*	M1 (2000)	M1 (2000)	M1 (2000)	M1 (2000)
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)
VAS-2 12-25/8L	12	800	25
VAS-2 12-25/12L	12	1250	25
VAS-2 17.5-25/8L	17.5	800	25
VAS-2 17.5-25/12L	17.5	1250	25
VAS-2 24-20/8L	24	800	20
VAS-2 24-20/12L	24	1250	20
VAS-2RP 12-25/8L	12	800	25
VAS-2RP 12-25/12L	12	1250	25
VAS-2RP 17.5-25/8L	17.5	800	25
VAS-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.



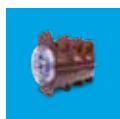
### Mevoco nv

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## Our product range



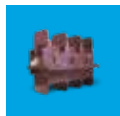
**RV 44**  
 Load break switch  
 two positions



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



**RP600**  
 Digital protection relay



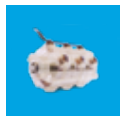
**RV 53**  
 Load break switch  
 three positions



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



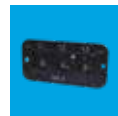
**HR-2**  
 Plugable  
 voltage detector



**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