

THE ONE STOP SHOP FOR MEDIUM-VOLTAGE COMPONENTS



## RP600 Digital Protection Relay

Easy, effortless and quick programming

Today's network components require maximum reliability, ease of use and maintenance freedom. Mevoco's protection relay RP600 provides an answer to these requirements.



## User-friendly

The relay functions are easy accessible and programmable with the help of a laptop or with the support of a menu oriented interface. The RP600 is not only easy to use, it is also designed specifically to easily integrate with Mevoco's next generation vacuum circuit breaker VA-2. On request, this relay is also available as a freestanding version to be integrated in medium voltage switchgear from any manufacturer brand.



## Your advantages

- Ready to connect to a laptop (RS-232 connection)
- User interface with large display
- Easy and quick programming thanks to a menu oriented interface
- Wide range of protection functions and extended functionalities
- Self-powered and self-steered curves metering
- Possibility of 8 different curves (protection functions)
- Equipped with 4 outgoing contact points and 2 free programmable outgoing points
- Extended fault registration by the use of an auxiliary supply



### SETTING RANGE

In (A)	50	150	200	400	600
--------	----	-----	-----	-----	-----

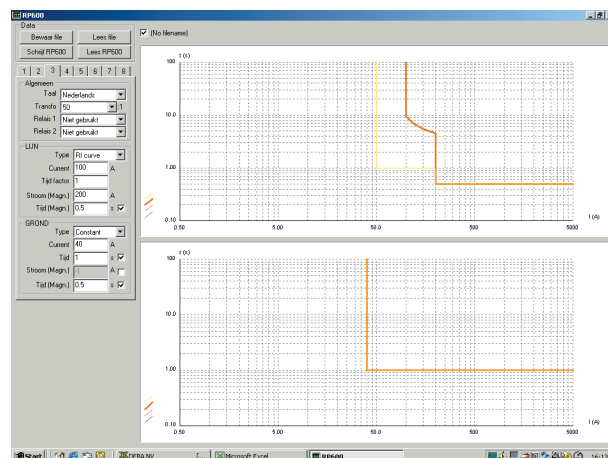
### Phase Fault

I>	0.5 to 2.1 x In	20-105	60-315	80-420	160-840	240-1260
I>>	0.5 to 40 x In	20-2000	60-6000	80-8000	160-16000	240-24000

### Earth Fault

Io>	0.5 to 2.1 x In	10-40	30-120	40-160	80-320	120-480
Io>>	0.5 to 40 x In	10-400	30-1200	40-1600	80-3200	120-4800

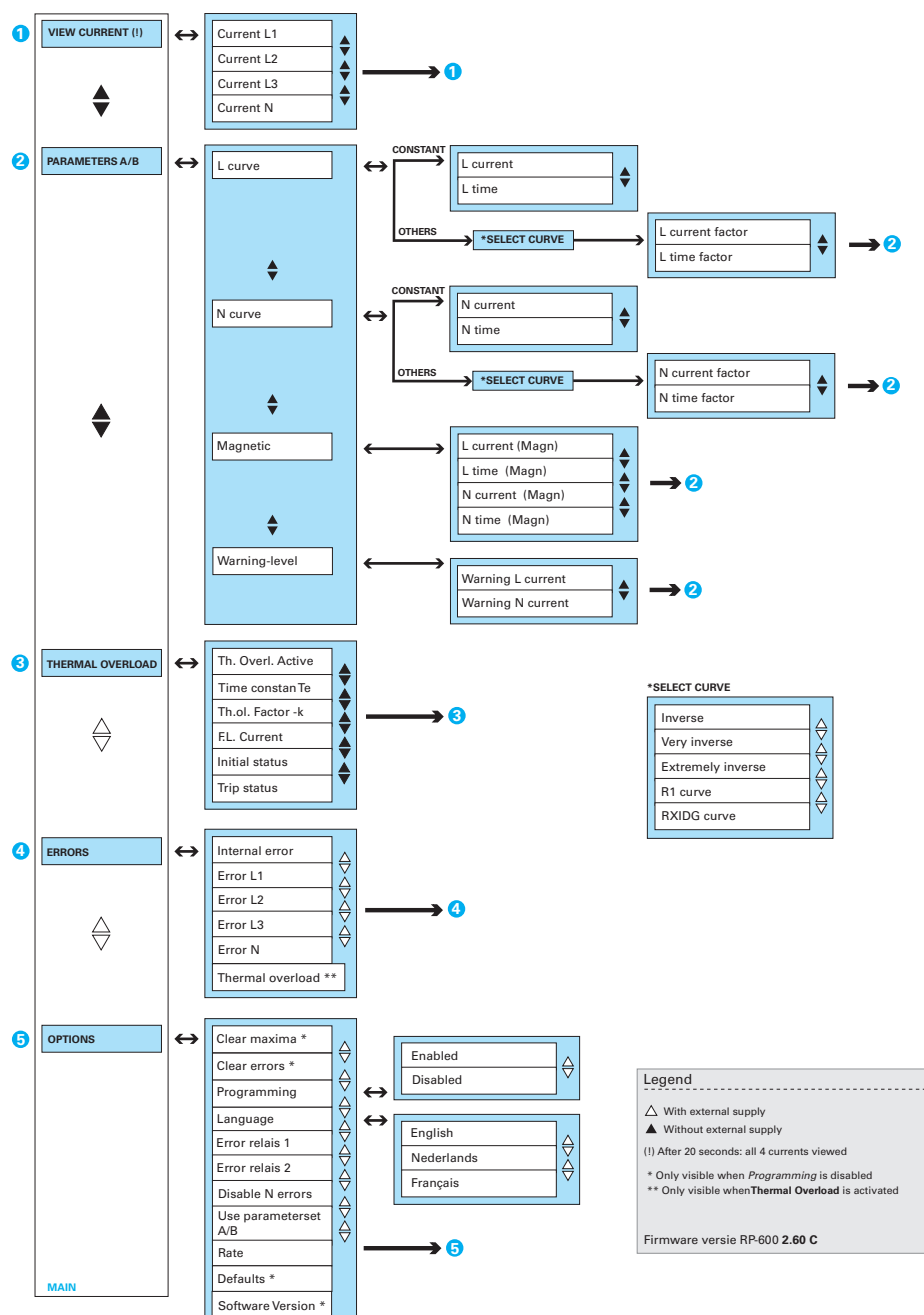
Currents are introduced as absolute values. The mentioned values are relative values (related to the ratio of the current transformer). Available current transformer ratios are: 1:50, 1:150, 1:200, 1:400 and 1:600.



### CONNECTIONS

	A	B	
[Vac meas+]	12	12	R2 (com)
[Vac meas-]	11	11	R2 (NO)
N	10	10	R2 (NC)
L3	9	9	R1 (com)
L2	8	8	R1 (NO)
L1	7	7	R1 (NC)
OUT- (0V)	6	6	ERR (com)
OUT+ (12V)	5	5	ERR (NO)
[110 Vdc-]	4	4	WARN (com)
[110 Vdc+]	3	3	WARN (NO)
110/220 Vac	2	2	Sens N off +
110/220 Vac	1	1	Sens N off -

## Menu Display RP600



## Programming is easy

The use of a keyboard provides access to the different menus. The functions are registered under the keys 1 to 9, the cancellation key (X), the confirmation key (Ø) and some other functions are accessible through the arrow keys (2,4,6 and 8).

The relay can only be programmed with an auxiliary supply. By using the confirmation key in the selected menu, it is possible:

- to wipe the fault currents in the memory (with confirmation).
- to define the standard values (with confirmation).
- to activate the programming (with confirmation).

Every action can be interrupted at any time by pressing the cancellation key. When the programming is activated, the “warning” LED is on and the characters “Ep” appear in the bottom left corner of the display.

It is possible in the “programming function” to modify the different parameters. Using the arrow keys, select the required menu and confirm by using the “confirm” key. The value will now start to flash and allow the registration of a new value.

If the parameter is not a value, then the arrow keys allow you to select the language, the ratio and the curve. When all the values are programmed and confirmed, they will be placed in the system’s memory.

FUNCTION	MINIMUM VALUE	MAXIMUM VALUE	DEFAULT
Line curve	See user interface	See user interface	Constant
Line Current thermic	0.40 A	2.50 A	1.00 A
Line Time thermic	0.00 s	99.98 / ∞ s	1.00 s
Line L – factor	0.40 A	2.50 A	1.00 A
Line K – factor	0.10	1.00	1.00
Neutral curve	See user interface	See user interface	Constant
Neutral Current thermic	0.20 A	2.50 A	0.80 A
Neutral Time thermic	0.00 s	99.98 / ∞ s	1.00 s
Neutral L – factor	0.04 A	0.80 A	0.20 A
Neutral K – factor	0.10	1.00	1.00
Line Current magnetic	0.40 A	12.00 A	4.00 A
Line Time magnetic	0.00 s	99.98 / ∞ s	0.50 s
Neutral Current magnetic	0.40 A	7.50 / ∞ A	∞ A
Neutral Time magnetic	0.00 s	99.98 / ∞ s	0.5 s
Language	See user interface	See user interface	Dutch (*)

(\*) Available interface languages: Dutch, French, English, Spanish, Russian

For more information on RP600 or our other products, contact our sales team

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

# 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. It ships products worldwide.



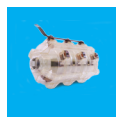
### Mevoco nv

Industrielaan 33A • 9850 Deinze • Belgium  
Tel. +32 (0)9 380 30 49 • Fax +32 (0)9 380 30 48  
Internet: [www.mevoco.be](http://www.mevoco.be)  
E-mail: [info@mevoco.be](mailto:info@mevoco.be)

## 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