

# RP1 SINGLE - PHASE POWER CONTROLLER

## FEATURES:

- Phase control
- ON/OFF control
- Impulse control
- Soft Start
- $I_{\text{LIM}}$
- $\alpha_{\text{LIM}}$



- Contactless power switching on.
- For power control of resistive and inductive load.
- Output current up to 125 A.
- Signalling of fuse damages.
- Trigger deceleration of "softstart" type.
- Control of the initial trigger angle value.
- Load current limitation.
- Trigger stoppage by an external signal.
- Alarming relay outputs.
- Control by an impulse, continuous or potentiometric signal.
- Phase, impulse, on/off control.

## INPUTS:

- 
- 
- 0..10 V
- 0..20 mA

## OUTPUTS:

- 125 A
- 2x

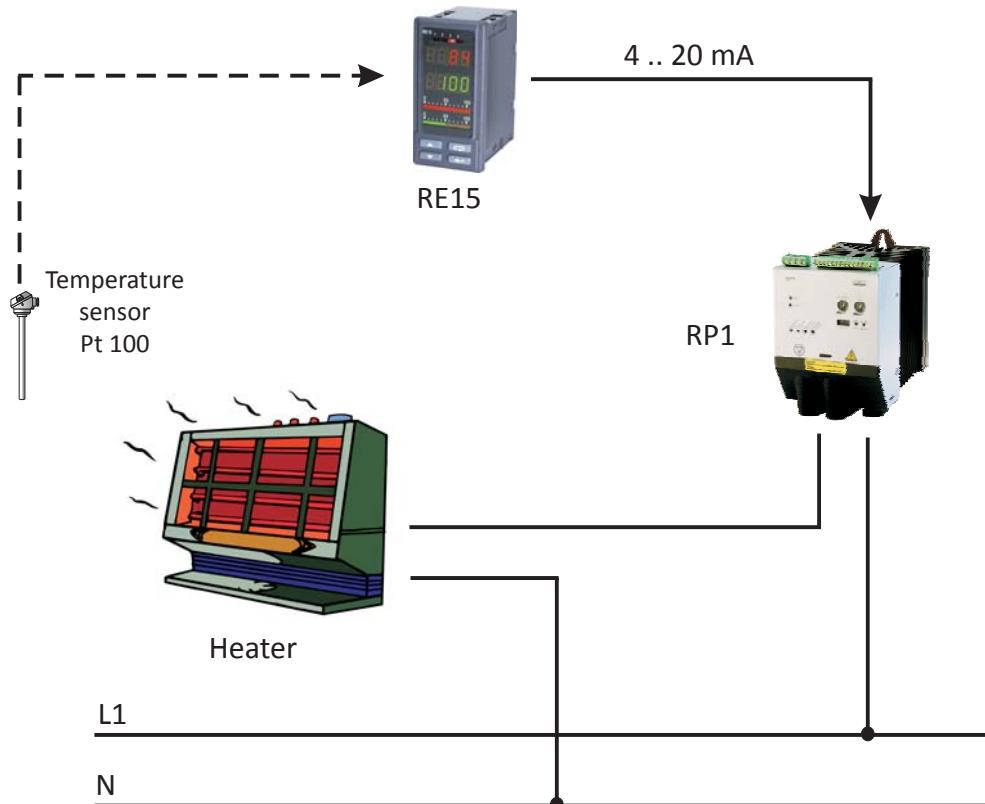
## GALVANIC ISOLATION:

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## EXAMPLE OF APPLICATION



Control of single-phase heater.

## INPUTS

Input type	Range	Remarks
potentiometric	0 .. 10 kΩ	
impulse	0/4 .. 32 V	$R_{\text{in}} = 20 \text{ k}\Omega$
continuous	0 .. 5 V	$R_{\text{in}} = 20 \text{ k}\Omega$
continuous	0 .. 10 V	$R_{\text{in}} = 40 \text{ k}\Omega$
continuous	0 .. 20 mA	$R_{\text{in}} = 125 \Omega$
continuous	4 .. 20 mA	$R_{\text{in}} = 125 \Omega$

## OUTPUTS

Output type	Properties	Remarks
thyristor	25, 40, 70, 125 A, 20 .. 440 V, 50/60 Hz	
alarming relay PK1	60 mA, 350 V, $R_{\text{on}} = 35 \Omega$	signaling of fuse damages
alarming relay PK2	60 mA, 350 V, $R_{\text{on}} = 35 \Omega$	signaling of incorrect work state

SEE ALSO:



Controllers.



Temperature sensors.



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## ORDERING

Current range:	RP1 -	X	X	X
maximal output current 25 A	load voltage:	1		
maximal output current 40 A		2		
maximal output current 70 A		3		
maximal output current 125 A*		4		
Gate triggering system (GTS):				
supply voltage 85 .. 115 .. 135 V a.c.		1		
supply voltage 195 .. 230 .. 253 V a.c.		2		
Acceptance tests:				
without additional quality inspection requirements		8		
with an extra quality inspection certificate		7		
other requirements**		X		

## Ordering example:

The code: RP1 - 3 - 2 - 8 means:

- RP1 - power controller of RP1 type
- 3 - input current 70 A, in the range of voltages supplying the load circuit: 24 .. 400 V
- 2 - voltage supplying the GTS system: 230 V
- 8 - without additional quality inspection requirements.

\* the version RP1 for 125 A has a fixed fan

\*\* after agreeing with the manufacturer

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