

RP3 THREE - PHASE POWER CONTROLLER

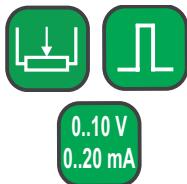
FEATURES:



- Contactless power switching on.
- For power control of resistive and inductive load.
- Output current up to 450 A.
- Signaling of incorrect phase sequence.
- 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.

EXAMPLE OF APPLICATION

INPUTS:

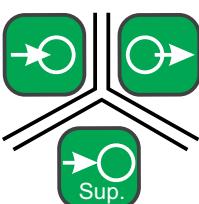


OUTPUTS:



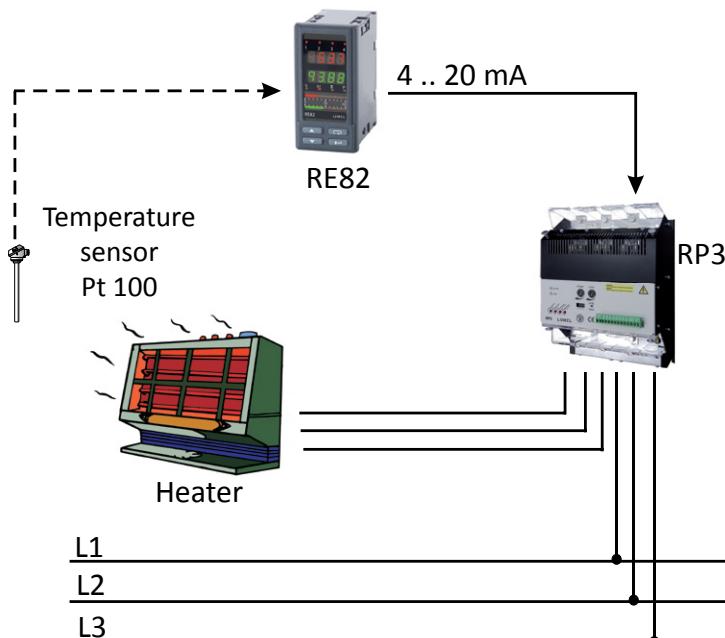
450 A

GALVANIC ISOLATION:



Export department:
Tel: +48 68 45 75 139/
276 / 305/ 386
Fax: +48 68 32 54 091
e-mail: export@lumel.com.pl

LUMEL S.A.
ul. Ślubicka 1
65-022 Zielona Góra
POLAND
WWW.LUMEL.COM.PL



Control of a three-phase heater.

INPUTS

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

OUTPUTS

Output type	Properties	Remarks
thyristor	40, 70, 125, 200, 300, 450 A	3 ~ 400 V, 50 Hz
alarming relay PK1	60 mA, 350 V, $R_{on} = 35 \Omega$	signaling of fuse damages, control error or incorrect supply connection
alarming relay PK2	60 mA, 350 V, $R_{on} = 35 \Omega$	signaling of work stoppage (STOP) or overflow of the admissible operation temperature

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SEE ALSO:



Controllers.

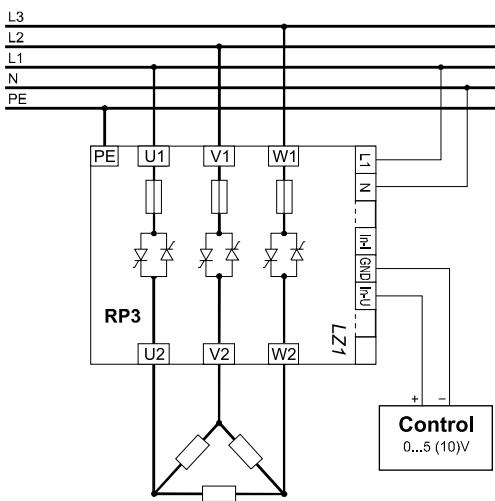
EXTERNAL FEATURES		
Overall dimensions	212 x 318 x 177 mm 383 x 433 x 281 mm	version 40, 70, 125 A version 200, 300, 450 A
Weight	8.5 kg (version 200, 300, 450 A: 37 kg)	
Protection grade	from casing side: IP00	acc. to EN 60529

RATED OPERATING CONDITIONS		
Supply voltage GTS	195 ... 230 ... 253 V a.c.	
Temperature	ambient: 0 ... 40°C	storage: -25...55°C
Humidity	< 90 %	without condensation
Operating position	vertical	
External magnetic field	< 400 A/m	

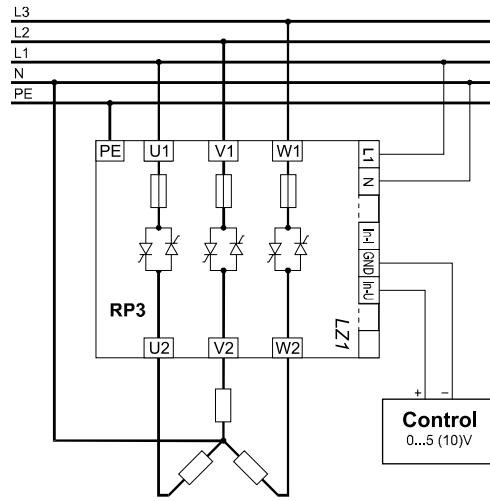
SAFETY AND COMPATIBILITY REQUIREMENTS		
Electromagnetic compatibility	noise immunity	acc. to EN 60947-4-3
	noise emissions	acc. to EN 60947-4-3
Pollution level	2	
Installation category	III	
Maximal phase-to-earth operating voltage	320 V for power circuits and supply, 50 V for other circuits	for input circuits: 50 V

CONNECTION DIAGRAMS

Fig.1. Connection of load in a 3 and 4-wire system.



a) 3-wire load



b) 4-wire load

ORDERING

RP3 -	X	X
Current range:		
maximal output current 40 A	1	
maximal output current 70 A	2	
maximal output current 125 A	3	
maximal output current 200 A	4	
maximal output current 300 A	5	
maximal output current 450 A	6	
Acceptance tests:		
without additional quality inspection requirements	8	
with an extra quality inspection certificate	7	
other requirements*	X	

* after agreeing with the manufacturer

Ordering example:

The code: RP3 - 2 - 8 means:

- RP3 - power controller of RP3 type
- 3 - input current 70 A, in the range of voltages supplying the load circuit:
3 ~ 400V
- 8 - without additional quality inspection requirements.

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Export department:

Tel: +48 68 45 75 139/
276 / 305 / 386
Fax: +48 68 32 54 091
e-mail: export@lumel.com.pl

LUMEL S.A.
ul. Sulechowska 1
65-022 Zielona Góra
POLAND
WWW.LUMEL.COM.PL