

# RP7 SINGLE-PHASE POWER CONTROLLER

## FEATURES:



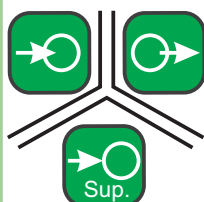
## INPUT:



## OUTPUTS:



## GALVANIC ISOLATION:



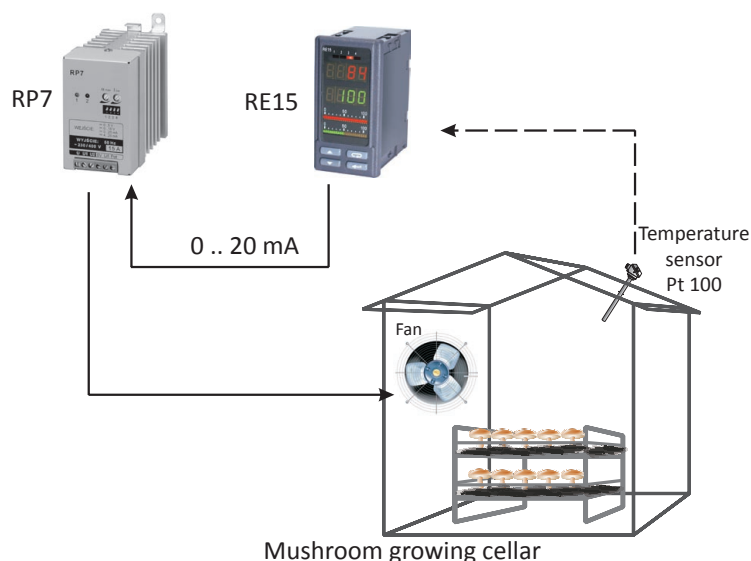
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- Contactless power switching on.
- For power control of resistive and resistive-inductive energy receivers, and rotational speed control of single-phase motors with a capacitor or commutator motors at small loads.
- Output current: 5, 10 or 15 A.
- Trigger deceleration of "softstart" type.
- Signaling of fuse damages.
- Control of the initial trigger angle value.
- Receiver current limitation and limitation of the receiver current and release angle.
- Control by a continuous or potentiometric signal.
- Phase control.

## EXAMPLE OF APPLICATION



## Ventilation of production halls.

### INPUTS

| Input type     | Range              | Remarks                        |
|----------------|--------------------|--------------------------------|
| potentiometric | 0 .. 10 k $\Omega$ |                                |
| continuous     | 0 .. 5 V           | input resistance: 3 k $\Omega$ |
| continuous     | 0 .. 10 V          | input resistance: 6 k $\Omega$ |
| continuous     | 0 .. 20 mA         | input resistance: 250 $\Omega$ |
| continuous     | 4 .. 20 mA         | input resistance: 250 $\Omega$ |

### OUTPUTS

| Output type | Properties                       |
|-------------|----------------------------------|
| triac       | 5, 10, 15 A; 195 .. 230 .. 253 V |

### EXTERNAL FEATURES

|                    |                   |
|--------------------|-------------------|
| Overall dimensions | 50 x 105 x 105 mm |
| Weight             | 0.55 kg           |
| Protection grade   | IP20              |

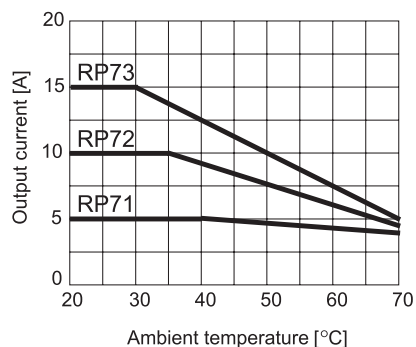
### RATED OPERATING CONDITIONS

|                         |                          |                      |
|-------------------------|--------------------------|----------------------|
| Temperature             | ambient: 5 .. 20 .. 50°C | storage: -20 .. 80°C |
| Operating position      | vertical                 |                      |
| External magnetic field | < 400 A/m                |                      |

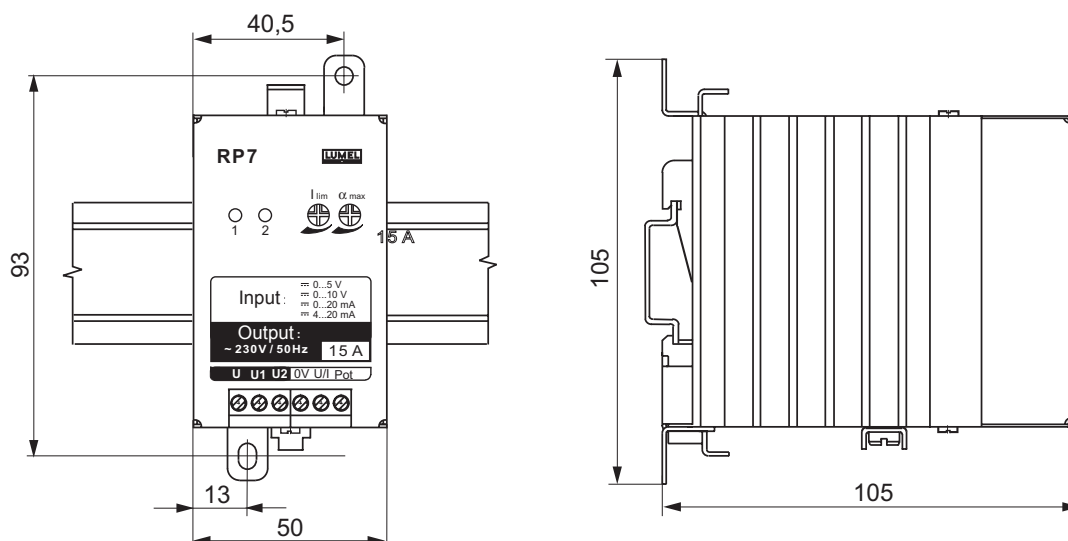
### SAFETY AND COMPATIBILITY REQUIREMENTS

|                                          |                                                              |                          |
|------------------------------------------|--------------------------------------------------------------|--------------------------|
| 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 |

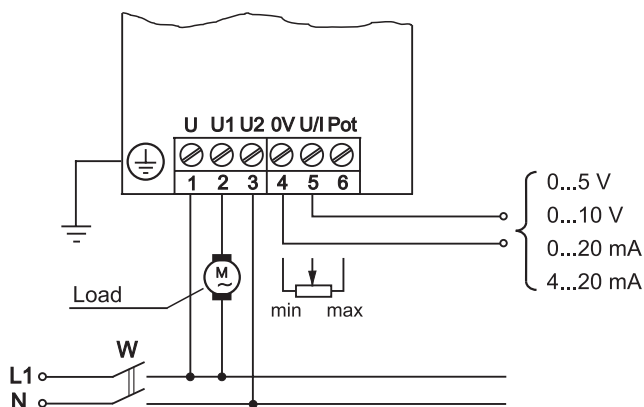
### LOAD CAPACITY



### OVERALL AND MOUNTING DIMENSIONS



### CONNECTION DIAGRAM



### ORDERING

|                                                    |   |   |
|----------------------------------------------------|---|---|
| RP7 -                                              | X | X |
| <b>Maximal output current:</b>                     |   |   |
| 5 A                                                | 1 |   |
| 10 A                                               | 2 |   |
| 15 A                                               | 3 |   |
| <b>Acceptance tests:</b>                           |   |   |
| without additional quality inspection requirements | 8 |   |
| with an extra quality inspection certificate       | 7 |   |
| other requirements *                               | X |   |

\* After agreeing with the manufacturer

#### ORDER EXAMPLE:

The cod: **RP7 - 2 - 8** means:

**RP7** - power controller of RP7 type,  
**2** - maximal output current: 10 A,  
**0** - without additional quality inspection requirements.

### SEE ALSO:



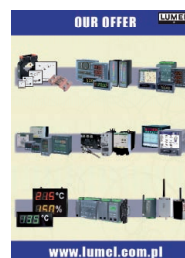
Temperature sensors.



Controllers.



Power controller of RP series.



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