**OEM Automatic Ltd**
Address: Whiteacres, Whetstone Leicester, LE8 6ZG
0116 284 9900 | Orders@oem.co.uk | www.oem.co.uk

# LUMEL RP3 THREE PHASE POWER CONTROLLER

RP338
LUMEL RP3 PWR CONT (3-PH) 125A 400VAC




- Contactless power switching on
- Output current up to 450 A
- Alarming relay outputs
- Control by an impulse, analogue or potentiometer signal

## PRODUCT DESCRIPTION

The RP3 power controller is a contactless three-phase power energy electronic device which includes a thyristor connector and an electronic gate triggering system. (GTS)

This power controller allows the control of the power delivered from a three-phase voltage source to an electrical energy load in function of the control signal input. The RP3 power controller is destined for three-phase actuators with resistance or resistance-inductance loads in control systems and automatic temperature control.

The application area of RP3 power controllers comprises:
• electrical furnaces and drying constructions, particularly industrial tunnels and belt- type furnaces, furnaces for annealing and hard soldering, crucible furnaces and smelters, furnaces for hardening in salt baths
• devices of mechanical engineering, aggregates and extruding presses for plastics, devices, for winding and tempering of springs, spot welding and seam welders
• production of glass and glazing, installations and devices for drying in infrared and ultraviolet radiation, ladles for glass melt and heating of feeding devices, furnaces for glass forming• chemical and petroleum industries, facing heaters of tube installations, preheating installations

### KINDS OF CONTROL

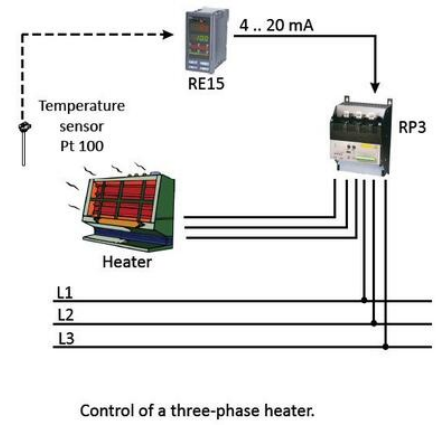
• On-off control
• Chopper control:
o fast cycle - fi,max » 1 Hz
o slow cycle - fi,max » 0.1 Hz
o Phase control

### ADDITIONAL FUNCTIONS

• Load current limitation
• Delay of soft start tripping type
• Control of the initial gating angle value
• Control of the input line amplification
• Supervising and signalling of the current in the load circuit, output U= f(Io)
• Supervising of the radiator temperature
• Signalling of the fuse damage
• Signalling of the incorrect phase sequence
• Signalling of overload
• Relay outputs

# TECHNICAL DATA

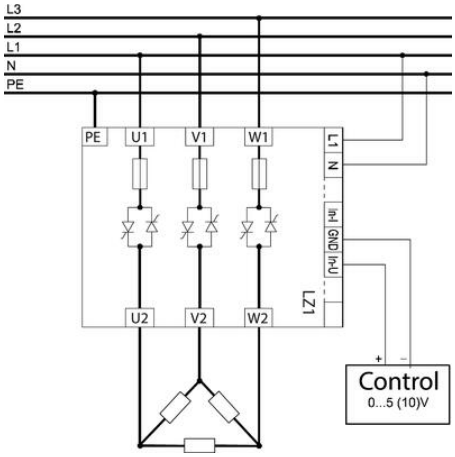
| | |
|---|---|
| **Dimensions** | 212 x 318 x 177 mm |
| **Output** | Maximum output current 125A |
| **Temperature operational max** | 40 °C |
| **Temperature operational min** | 0 °C |
| **Weight** | 8.5 kg |

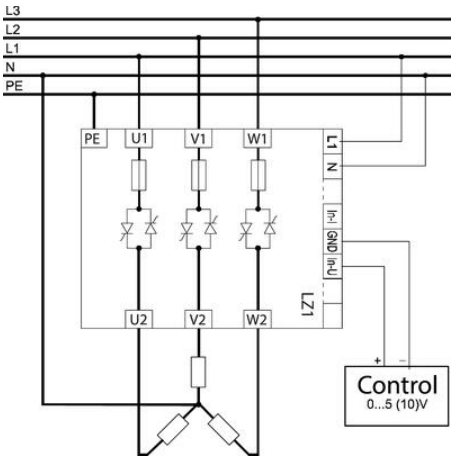


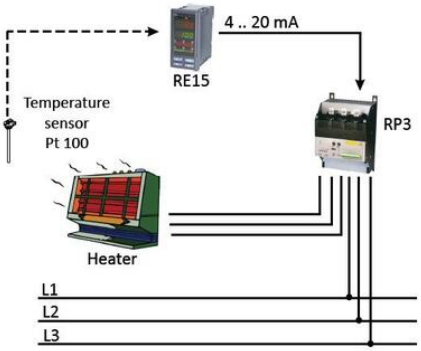

Control of a three-phase heater.

**TABLE 51. RP3 ORDERING CODE:**

| | | |
|---|---|---|
| | RP3 - | X X |
| **Maximal current output:** | | |
| 40 A | | 1 |
| 70 A | load voltage: 3 - 400 V a.c. 50 Hz | 2 |
| 125 A | | 3 |
| 200 A | | 4 |
| 300 A | | 5 |
| 450 A | | 6 |
| **Acceptance tests:** | | |
| without extra requirements | | 0 |
| with an extra quality inspection certificate | | 1 |
| acc. to customer's request* | | X |




Control of a three-phase heater.

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