

- 2 modulation type are available Burst fired VPL73-TR Phase angle variation VPL73-PH
- Output power maxi: 6Kw Current range from 0.2A to 25A Integrated high speed fuse
- Internal proportional setpoint Control by potentiometer
- Application :

plastic processing, ovens, dryers, Climatic chambers, Test bench. Heating tape (not suitable for inductive load)



VPL73

autonomous and compact AC energy regulator for proportional linear control of resistive load using bust fire control (load with high inertia) or using phase angle variation (load with low inertia). Can be used with most resistance heaters.

# **Description:**

Energy regulator with proportional control command for resistive load up to 6KW

High robustness due to absence of mobile mechanical parts, ensuring greater longevity and maintenance costs reduction (insensible to shocks and vibrations)

Flexibility of applications:

- Burst fired (zero-crossing) for high inertia system (adjustable duty cycle range: 1 - 30s)
- Phase angle control for fast applications or application needed thin regulation.
- Operating frequency 50 60 Hz self adaptive.
- Setpoint adjustment with mono turn potentiometer (0...100% graduated)
- Panel mounting or DIN rail mounting. Natural convection cooling
- designed for nominal current capacity at 40°C room temperature
- Connection of power supply and output on screw terminal blocks (2.5mm<sup>2</sup>)
- Self powered, build in protection with RC circuit and fast fuse

Primarily designed for resistive load It is therefore necessary to ensure of inrush current compatibility at power up.

Inrush current of incandescent lamps is usually 10 x greater than rated current for some tens of milliseconds.

Protection against short circuits is done by an internal fast fuse (Fast fuse 30A 600V HS (type SCR) 10 x 38 mm)

#### Note:

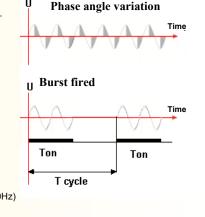
Semiconductor relays do no provide galvanic isolation between network and load, so it is necessary to switch off main supply before any intervention on the load.

#### Modulation type:

Phase angle variation Advantage: Allows precise load control. Suitable for low inertia loads. Disadvantage: generates more disturbance.

### Burst fired

Advantage: "clean" switching, no disturbance generated. Disadvantage: not appropriate for low inertia loads, accuracy limitation of load control due to cycle time. (1% for a 1seconde cycle at 50Hz)



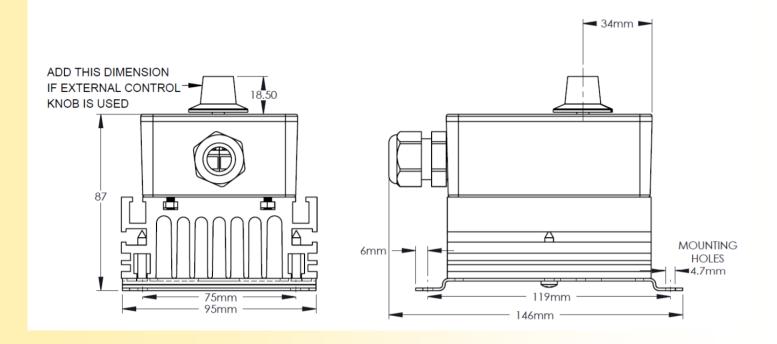
#### Version and order code:

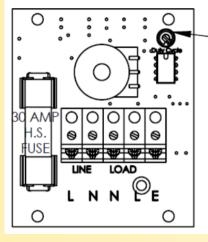
## Request a quote 🔀

VPL72-TR: VPL72-PH:

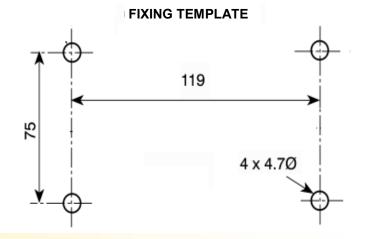
full wave burst fired mode phase angle variation mode

90 days accuracy (20 °C +/- 2 °C) DATA SHEET CAN BE DOWNLOADED ON WWW.LOREME.FR TECHNICAL SPECIFICATIONS				
Setpoint		Environment		
3/4 turn potentiometer Output Full wave burst fire Burst fire period : Output current : Permissive overload Non repetitive overload current : I <sup>2</sup> t (<10ms) (for fuse determination) Min load current: Off state leakage current:	0100% 1 sec. at 50 Hz 25 A 40 A 2 seconds 250 A peak 250 A <sup>2</sup> s (30A) 200 mA < 2.5mA	Operating temperature Storage temperature Humidity Dielectric strength Weight Protection rating Offstate dv/dt For optimum performance and dissi mounted vertically	-10 °C to 55 °C -20 °C to 85 °C 85 % (not condensed) 2500 Vrms continuously 750 g IP40 500V/us pation, the unit must be	
Voltage drop:	1.4V	Electromagnetic compatibility 2014/30/UE / Low Voltage Directive 2014/35/UE		
Power dissipation : Temperature rising:	1.4 x ls (watts) 1.3°C/Watt	Immunity standard for industrial environments EN 61000-6-2	Emission standard for industrial environments EN 61000-6-4	
Power supply 230V +/-10% 50 - 60Hz		EN 61000-4-2 ESD EN 61000-4-8 AC MF EN 61000-4-3 RF EN 61000-4-9 puise M EN 61000-4-4 EFT EN 61000-4-11 AC d EN 61000-4-5 CWG EN 61000-4-12 ring v EN 61000-4-6 RF EN 61000-4-29 DC d	IF os group 1 rave class A	
WIRING AND OUTLINE DIMENSIONS:				





CAUTION: Use insulated trimmer to adjust cermet for required duty cycle.



In order to secure their technical features, we recommend at least a 25 mm spacing between each devices.

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