

PULSER-X/D Single phase / two phase controller for external signal



PULSER-X/D is an electric heating controller for controlling electric heating batteries, electric panels etc. The controller is controlled by an external signal from a DDC or other controller

- * For loads up to 3.6kW (230 V) or 6.4kW (400 V)
- * For control signal 0...10 V
- Automatic supply voltage adaption 230/400 V
- * DIN-rail mounting
- Protection class IP20
- * Manual mode 0...100% with TBI-100

Function

PULSER-X/D is an electric heating controller (triac control) for single phase (230V) or two phase (400V) electric heating. It is intended primarily for DIN-mounting and is connected in series between power supply and an electric heater, for example an electric heating battery or electric panel.

The controller utilises time-proportional control, the ratio between On-time and Off-time is varied to fit the prevailing heating requirement e.g. when using control signal 5 V and cycle-time 60 sec (ON = 30 s and OFF = 30 s) gives 50% output power. The cycle-time (the sum of on-time and off-time) is settable in 6,60 or 120 seconds.

The control accuracy is better when using triaccontrol and it also contributes to reduced energy costs. Increased comfort due to an even temperature is another benefit.

Since the current is switched by a semiconductor (triac) there are no moving parts that can wear out. The current is switched at zero phase angle, to eliminate network disturbance.

Technical data

Supply voltage 210...415 V AC (automatic adaption to supplied voltage)

Control signal 0...10 V DC

Pulse period Settable to 6 sec. 60 sec. or 120 seconds

Load Max. 16 A, Min. 1 A

At 230 V the maximum load is 3,6 kW and the minimum load 230 W At 400 V the maximum load is 6,4 kW and the minimum load 400 W

Power dissipation 20 W at full load

Ambient temperature 0...30°C, not condensing

Ambient humidity Max. 90% rH Storage temperature -40...+50°C

This product conforms with the requirements of European EMC standard

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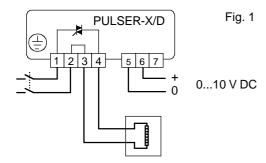
www.regin.se, info@regin.se

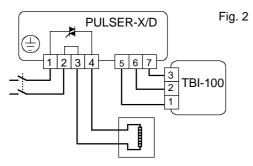
CENELEC EN61000-6-3 and EN61000-6-2, European LVD standards

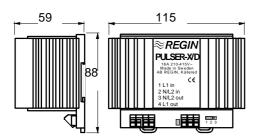
IEC669-1 och IEC669-2-1 and carries the CE mark.

Protection class IP20

Wiring







External control signal (figure 1)

Terminal 1...2, Supply voltage (not polarity sensitive)

Terminal 3...4 = Load Terminal 5= Signal neutral Terminal 6 = 0...10 V DC

The control signal-terminal is galvanically separated from the supply voltage. The wiring should be as short as possible (<25 m), to minimize the risk for external disturbance.

Manually settable modulation (figure 2)

PULSER-X/D can be used with manually settable modulation. Terminal 7 has +10 V DC output signal. By connecting a TBI-100 according to fig. 2, the PULSER-X/D can be set to 0...100% modulation by means of the knob.

