

3.01.05

PTC Heating element B46-96-4



>> Description

This PTC ceramic heater is designed for the heating of forced air and can be incorporated in a variety of heating appliances and systems.

The PTC technology offers many advantages compared to conventional resistance heaters. E.g. the self regulating temperature control and automatic temperature limiting effect offers increased safety and eliminates the need of extra thermal protection.

>> Technical specification

Article no 3050231101 - 230V
3050231102 - 110V

Material Ceramic: BaTiO₃
Fin: Aluminium
Adhesive, coating: Silikon
Frame: PPS R7

Rated voltage 230Vac ± 15%

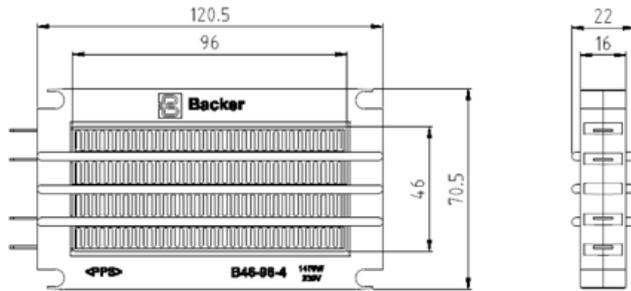
Rated power 1100W ± 10% @ 72m³/h, 25°C

I_{inrush} < 24A

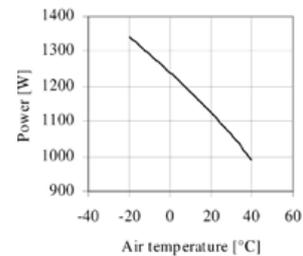
T_{curie} 220 ± 7°C

Voltage resistance 360 Vac/1 min

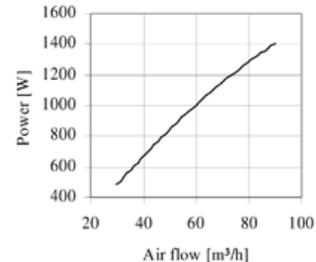
R25 33-167 Ω @ 25°C



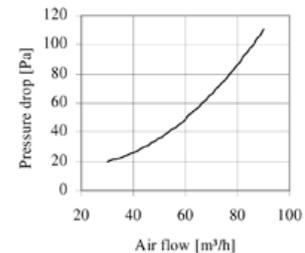
Power vs air temperature @ 72m³/h



Power vs air flow @ RT (25°C)



Pressure drop vs air flow @ RT (25°C)



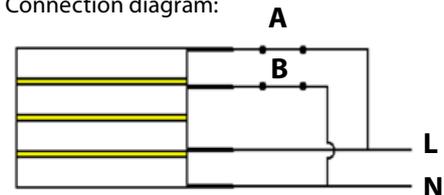
>> Benefits

- Rapid heating
- Heating power controlled by the air flow
- Compact construction
- Large heat transferring surface
- Uniform heating without power variation
- Economic; less wiring needed
- Long Life

>> Fields of application

- Heat systems for vehicles
- Fan heaters
- Tumble dryers
- Dehumidifiers
- Cabinet heaters
- Hot air curtains
- Hand dryers

Connection diagram:



Alternative power output of the element when connected to a power supply:

- A closed, B closed 1/1 power
- A closed, B open ~1/3 power
- A open, B open ~1/3 power
- A open, B closed ~2/3 power

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2011.02