

PTC HEATING ELEMENT B90-96-5

Properties

Backer standard range of PTC – Positive Temperature Coefficient heating elements in stock are designed for heating of forced air to be used in a wide range of engineering and domestic applications such as fan heaters, dehumidifiers, hot air curtains, tumble dryers, drying units, hand dryers, cabinet heaters etc.

The PTC heating technology offers several advantages compared to conventional resistance heaters e.g. rapid heating with self-regulating temperature control, uniform heating without power variation, compact design, no risk for overheating, economic installation, long life-time etc.

The element consists of PTC-chip and aluminium fins assembled by brazing and gluing in a heat resistant plastic frame that gives both technical and commercial advantages compared to mechanically assembled PTC elements.

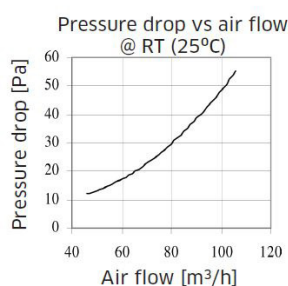
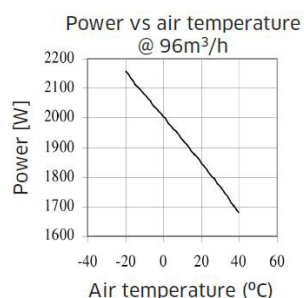
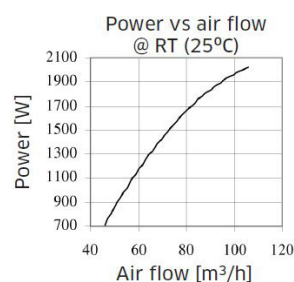


Technical information

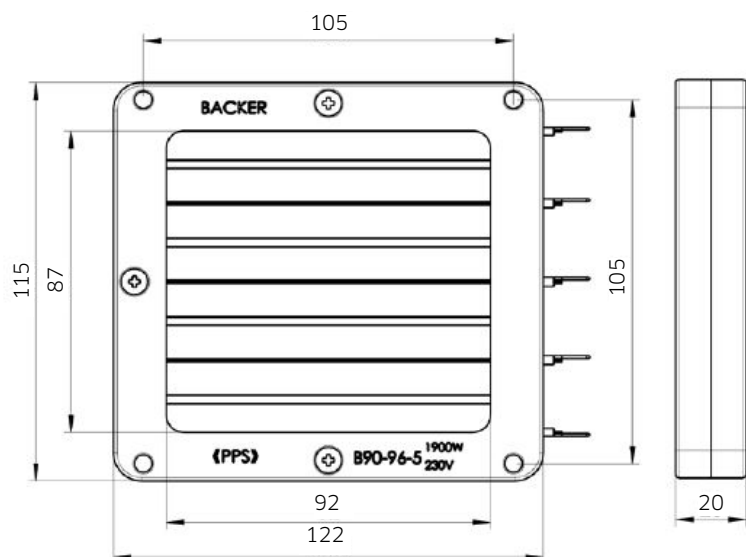
Material	Ceramic PTC-chip BaTiO_3 , fins in aluminium, adhesive and coating in silicone, frame in PPS R7 plastic
Rated Voltage	230 Vac $\pm 15\%$
Rated power	1900W $\pm 10\%$ @ 96m ³ /h, 25°C
Voltage resistance	360 Vac/1 min
I_{inrush}	< 32A
T_{curie}	220 $\pm 7^\circ\text{C}$
R25	50-250 Ω at 25°C
Dimensions	122x115x20 mm
Electric connection	Tab terminal 6.4 ± 0.1 mm

Standard assortment

Article No 3050863101

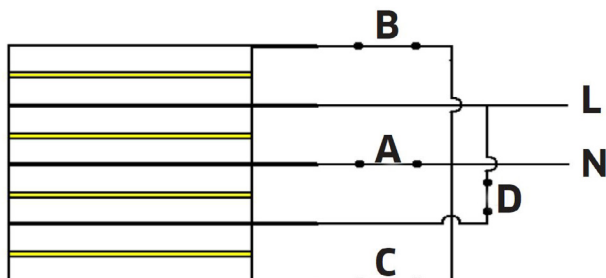


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Circuit diagram/connection alternatives*

Connection diagram



A	B	C	D	Power	Heat location
closed	closed	closed	closed	~1/1	
open	closed	closed	closed	~1/2	upper
closed	open	open	closed	~1/2	middle
closed	closed	closed	open	~1/2	lower
open	closed	open	open	~1/4	upper
closed	open	closed	open	~1/4	middle

All electric connections and energizing components, must be done by a qualified electrician.

Options available on request

Other voltages, wattages, temperatures and performances
 PTC heating elements for contact, liquid and gas heating
 High voltage insulated PTC customized heating systems with
 control system for vehicles
 UL-approved PTC heating elements