

2ND GENERATION

# Positive Temperature Coefficient Heater

**SMALLER, FASTER, EASIER TEMPERATURE CONTROL WITHOUT A THERMOSTAT**

The Waukesha® Positive Temperature Coefficient heater (PTC2) can improve the reliability, efficiency and operational life of electrical equipment by automatically maintaining an enclosure temperature only slightly higher than the outside ambient temperature without using a thermostat or controls. Our PTC2 performs this function with a high velocity fan, all while taking up less space and having no need for any special mounting platforms.

### ELIMINATES THERMOSTAT PROBLEMS

Our PTC2 heaters use a variable resistance (current limiting) material that automatically controls cabinet temperature and eliminates the need for a thermostat, increasing heater reliability and efficiency.

### PREVENTS HEAT DAMAGE AND CONDENSATION

During cold weather when significant heat is required to reach the thermostat setting, a traditional strip heater is likely to drive the temperature of the area around the heater well above desirable levels. This can result in uneven heat distribution in the control box. SPX Transformer Solutions' PTC2 heaters feature an integral circulating fan that moves warm air around the cabinet, maintaining even heat distribution and providing uniform condensation protection. The PTC2 offers even better air velocity than the previous PTC, allowing for even more air movement throughout the cabinet.

### INSTALLS QUICKLY

The electrical connections from the fan to the heater are pre-wired, so the only connection necessary is to provide power to the assembly; our PTC2 heater includes a 12 foot long wire harness with quick-connect end for easy installation. Integrated DIN-rail mounting clip allows for quick orientation in cabinet for proper air circulation.

### ADDITIONAL FEATURES

- Virtually Unlimited Life
- Economical
- Energy Efficient — Low Power Consumption
- Low Electrical Noise
- Improved Reliability vs. Strip Heaters
- Low Profile — Compact Size
- Plastic Heater Guard to Help Prevent Burns
- UL Recognized

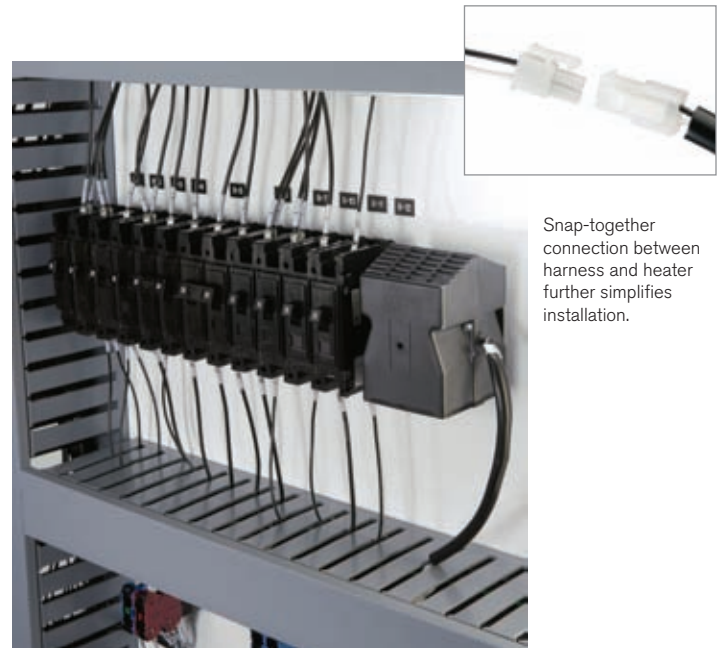


**Customer Configurable**  
SEE BACK SIDE FOR PART NUMBER CONFIGURATION TOOL.

PTC2 heaters are available in the following configurations:

- 20, 30, 40 & 60 Watt — dual rated for 120V–220V
- 200 Watt, Fan Forced\*
- 300 Watt, Fan Forced\*
- 400 Watt, Fan Forced\*

\* Specify either 120V or 240V



Snap-together connection between harness and heater further simplifies installation.

# Build Your Own Part Number Using Configuration Below

P T C 2 - X X X

## NOTES:

- "Temperature activated" PTC2 heaters are controlled by an internal thermostat, set to energize at 5°C±3°C
- Hi-recovery PTC2 heaters operate as a standard 200 or 300 watt PTC2 heater with a hi-recovery 400W mode activated by integral thermostat, set to energize at 5°C±3°C
- Units A, E, F and G are dual-rated for 120V-220V service; use "0" for dual voltage selection

20 WATT ASSY NATURAL CONVECTION	E
30 WATT ASSY NATURAL CONVECTION	F
40 WATT ASSY NATURAL CONVECTION	G
60 WATT ASSY NATURAL CONVECTION	A
200 WATT, W/FAN FORCED CONVECTION	B
300 WATT, W/FAN FORCED CONVECTION	C
400 WATT, W/FAN FORCED CONVECTION	D
200 WATT, W/FAN TEMPERATURE ACTIVATED	H
300 WATT, W/FAN TEMPERATURE ACTIVATED	J
400 WATT, W/FAN TEMPERATURE ACTIVATED	K
200/400 WATT, W/FAN 200W & FAN 400 WATT HI-RECOVERY TEMPERATURE ACTIVATED	L
300/400 WATT, W/FAN 300W & FAN 400 WATT HI-RECOVERY TEMPERATURE ACTIVATED	M

SYSTEM TYPE

VOLTAGE

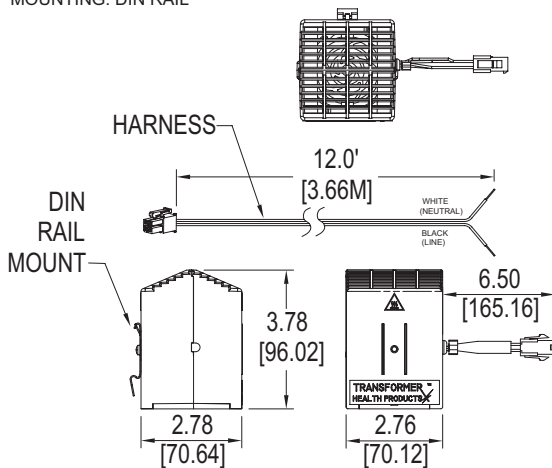
OPTION ADD

110-120V AC	0
220-240V AC	1

DIN RAIL 1030-1342-001	2
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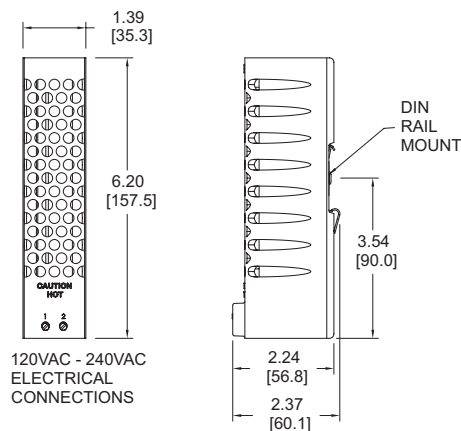
## PTC2 HEATER HEATER B, C, D, H, J, K, L & M SYSTEM TYPES

MOUNTING: DIN RAIL



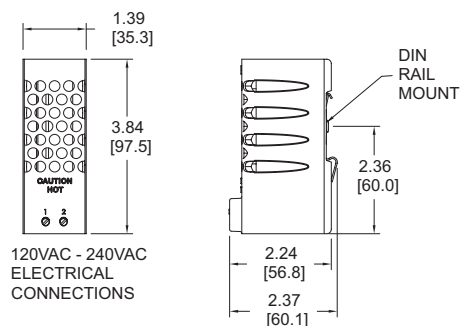
## PTC2 HEATER A & G SYSTEM TYPES

MOUNTING: DIN RAIL



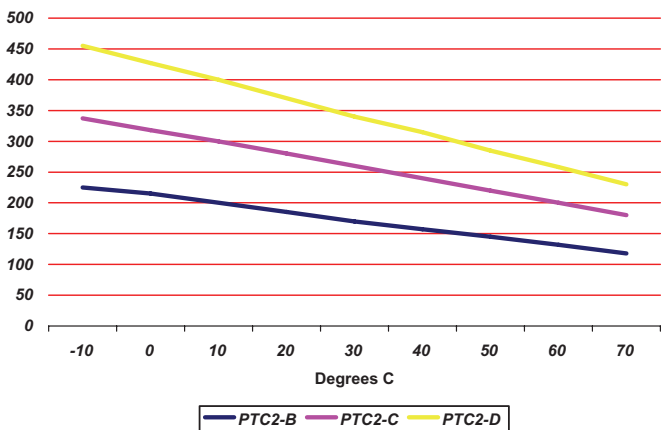
## PTC2 HEATER E & F SYSTEM TYPES

MOUNTING: DIN RAIL

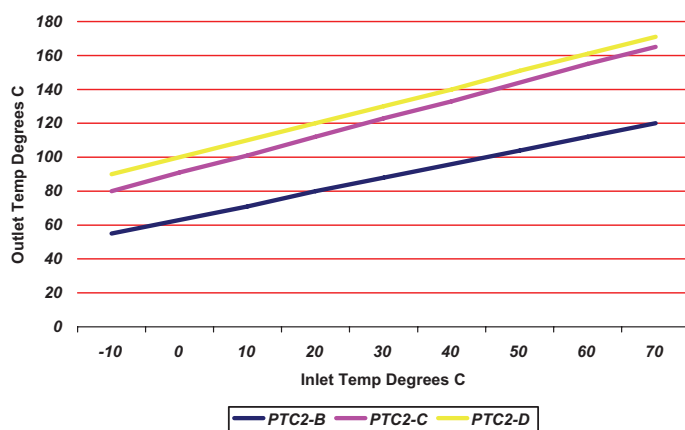


## HOW TO PICK YOUR OWN HEATER

Wattage vs. Heater Inlet Temperature



Heater Inlet vs. Outlet Temperature



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To continually improve its products and services, SPX Transformer Solutions, Inc. reserves the right to change specifications and features without notice. Please contact us for certified dimensions and drawings.

Contact us for additional information or quotation on our extensive range of products and services:

CALL 800-338-5526

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