



For use with PTC self-regulating heating cables

SOFTSTART DEVICE

- Automatically reduces the in-rush current of self-regulating heating cables on cold start-up
- In-rush reduced by up to 50%
- Available in 16; 20 & 30 Amp ratings
- Available for 110-120VAC and 220-277VAC
- Designed for use with HTL heater technology
- No moving parts
- Low cost device

INTRODUCTION

The Problem

Start up of self-regulating heating cables has always been a problem. On an insulated mild steel pipe, low temperature polyethylene type products typically draw 4 times their run current on startup from cold. High temperature fluoropolymer heaters typically draw twice their run current.

In applications having poor thermal transmission, such as floor warming under wooden floor finishes, in-rush currents in excess of 10 times their run current are possible when using polyethylene based products.

As a result, power cables and switchgear devices, such as thermostats, circuit breakers, etc., must be sized to carry the start currents. Subsequently, feeder cables and switchgear costs are higher than would be required for run currents and the number of heating circuits needed for an installation may be more than otherwise necessary.

The Solution

SoftSart Device, SSD, reduces the in-rush current of self-regulating heating cables by up to 50% on start up from cold.

The effect of incorporating SSD is to increase the maximum heating circuit lengths, reduce the potential number of heating circuits, reduce the size of switchgear and the number and size of feeder cables. Circuit breakers are sized close to the operating current of a circuit, thereby improving safety.

In short, the cost of an electric heat tracing installation may be substantially reduced.



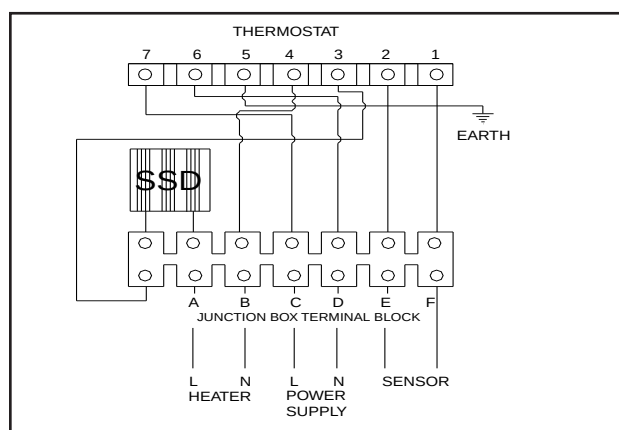
BENEFITS

- Fewer heating circuits
- Smaller and fewer feeder cables
- Smaller switchgear sizing
- Safer installation
- Lower system cost

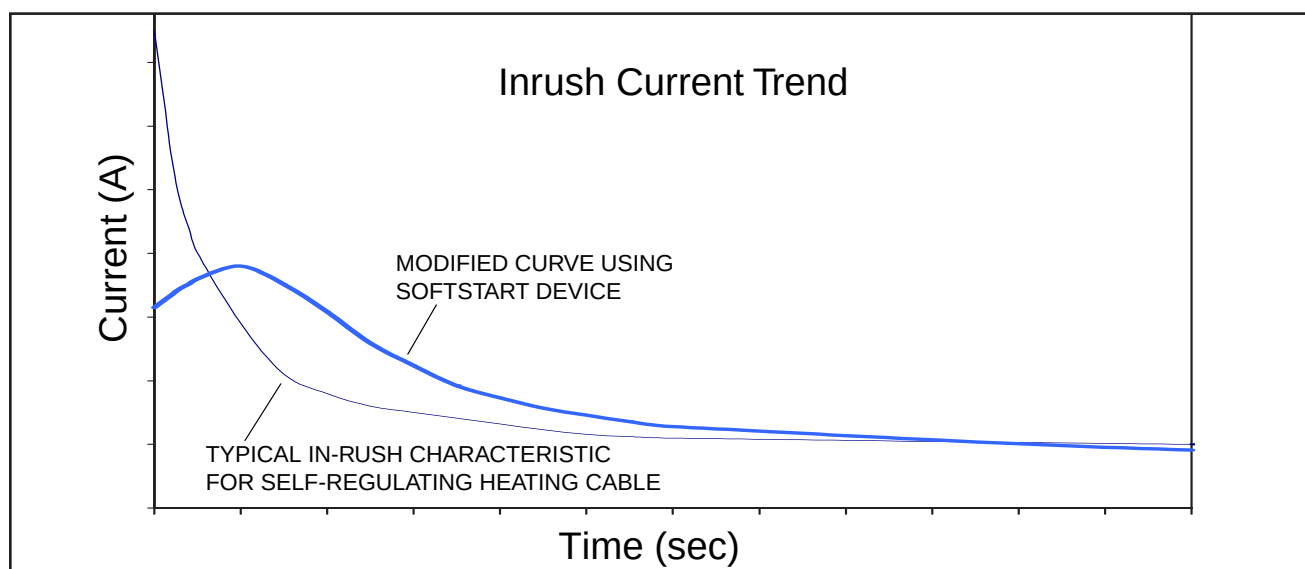
SPECIFICATIONS

UNIT OPERATING TEMPERATURE LIMITS	-55°C (-67°F) minimum +200°C (+393°F) maximum
FINISH	Silver or Black
POWER SUPPLY	SSD/30/1 115VAC (nominal) SSD/30/2 230VAC (nominal)
OPERATING CURRENT	16; 20 & 30 Amp rating
WEIGHT	119 Grams (approx)
PRODUCT CODE	SSD / 30 / 2
SoftStart Device	SSD
Current Rating	30
Voltage	2 = 230VAC 1 = 115VAC

TYPICAL WIRING SCHEMATIC



TYPICAL IN-RUSH CURRENT vs TIME CURVE



HEAT TRACE™
SETTING THE STANDARDS LEADING THE WAY

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NOMINAL DIMENSIONS 50mm X 50mm X 25mm

