



HL-SMC Series Contactor Panel

Contactor Panel for Electrical Self-Regulating Heat Trace Systems

Data Sheet

Description

The Heat-Line HL-SMC Contactor Panel series offers a cost-effective, industrial-grade solution for managing snow-melting and heat trace systems, ensuring enhanced electrical safety and reliable performance. Designed for self-regulating heating cables, these panels integrate seamlessly with external Heat-Line 120V controllers, offering circuit control and enhanced safety features to support a wide range of heat trace applications. Available with optional ground fault equipment protection to ensure a cost effective and seamless installation.

Features

Key features include a 4-hour force-on timer or indefinite hold for energizing heat trace circuits without a signal from the Heat-Line controller, pilot light indicators for energization and trip conditions, and optional built-in ground fault equipment protection with an easy-to-access reset button. These durable panels can safely manage up to twelve single-pole single-phase circuits or six two-pole single-phase circuits, accommodating voltage applications from 120V to 277V. Contact Heat-Line for detailed information and assistance with panel design for higher voltage systems.

- **Low-Cost Solution:** Affordable without compromising on quality or safety.
- **Industrial-Grade Durability:** Built for reliability in demanding environments.
- **LED Indicators:** A green pilot light indicates that the system is energized. On GFEP models, an additional red reset/trip pilot light alerts users to trip conditions.
- **Force-On Timer:** Integrated 4-hour timer and indefinite hold allows manual override for extended operation.
- **Integrated Safety Features:** Built-in ground fault equipment protection on GFEP models ensures operator and system safety.
- **User-Friendly Operation:** Easy access ground fault trip reset button on GFEP models for quick and simple resets.
- **Equipment Protection:** 2-year standard manufacturer limited warranty.
- **Audible Alarm:** Includes integrated alarm siren to notify of trip conditions (GFEP Models ONLY).



Electrical Ratings

Heat Trace Voltage Range	120V - 277V
Control Power	120V
Switching Current Rating	50A resistive load capacity per pole
Enclosure Rating	NEMA 1 – Indoor application
Mounting	Wall mounted
Timer Override	4-hour and Indefinite hold
Trip Level (GFEP Models ONLY)	30mA

Approvals / Certifications



Ordering Information

Part No.	Description	Heat Trace Circuit Capacity	No. of Contactors	Dimensions
HL-SMC-2C3P-GFEP	GFEP heat trace contactor panel 2 3-pole contactors	3 Circuits (120V, 208V, 240V, 277V)	2	14"x12"x8"
HL-SMC-4C3P-GFEP	GFEP heat trace contactor panel 4 3-pole contactors	6 Circuits (120V, 208V, 240V, 277V)	4	16"x12"x10"
HL-SMC-2C3P	Heat trace contactor panel 2 3-pole contactors	6 - Single Pole Circuits (120V, 277V) 3 - Two Pole Circuits (208V, 240V)	2	14"x12"x8"
HL-SMC-4C3P	Heat trace contactor panel 4 3-pole contactors	12 - Single Pole Circuits (120V, 277V) 6 - Two Pole Circuits (208V, 240V)	4	16"x12"x10"

WARNING:

Important Safety Instructions and Rules for Safe Installation and Operation

- Read these rules and instructions carefully. Failure to follow them could result in serious bodily injury and/or property damage.
- Check your local building and electrical codes before installing. You must comply with their rules and regulations.
- The panel includes comprehensive wiring diagrams and schematics. A qualified electrician must perform all

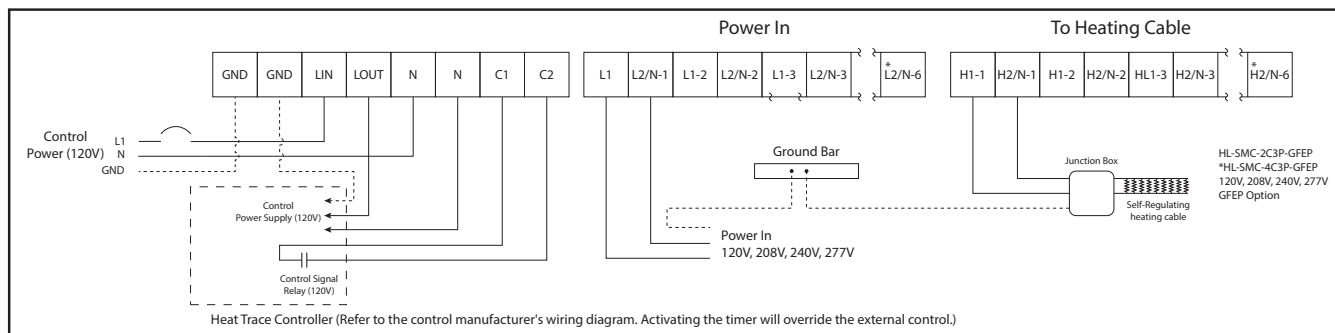
electrical work in accordance with applicable national and local codes and standards.

- **Electric Arc Flash Hazard.** Will cause severe injury or death. Wear proper protective equipment before opening or performing diagnostic measurements while energized.
- To reduce the risk of fire or electric shock, current-carrying parts and the other components of the controller should be examined and replaced if damaged.

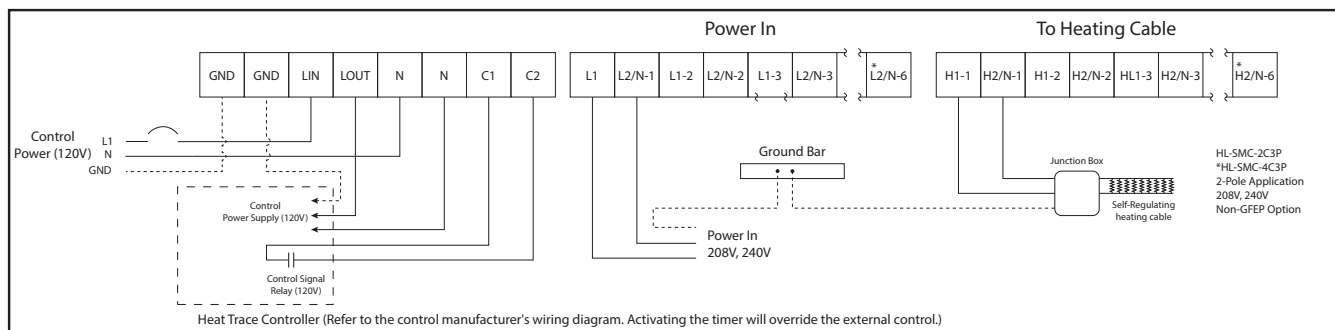
- Intended for self-regulating heating cable resistive loads ONLY.
 - This is not intended to be a high-limit device.
 - Panels contain more than one source of electricity. Be sure to shut off all sources before opening.
 - Component approvals and performance are based on the use of specified parts only. Do not substitute parts.
- For additional installation questions, support, or replacement parts contact Heat-Line at (800) 584-4944 or support@heatline.com.

Wiring Diagrams

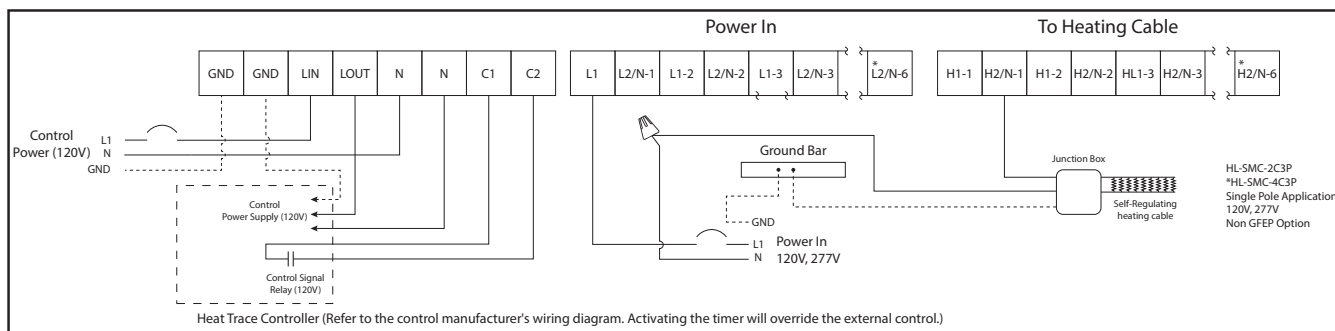
HL-SMC-2C3P-GFEP / HL-SMC-4C3P-GFEP GFEP Option



HL-SMC-2C3P / HL-SMC-4C3P 2-Pole Application 208V, 240V Non-GFEP Option



HL-SMC-2C3P / HL-SMC-4C3P Single Pole Application 120V, 277V Non-GFEP Option



Heat-Line Freeze Protection Systems

1095 Green Lake Road
 Algonquin Highlands, ON Canada
 K0M 1S0
 Tel: 1-705-754-4545
 1-800-584-4944
 Fax: 1-705-754-4567
 info@heatline.com
 www.heatline.com

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