



# HL-SMC Series Contactor Panel

## Contactor Panel for Electrical Self-Regulating Heat Trace Systems



GFEP Model Shown

### 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.

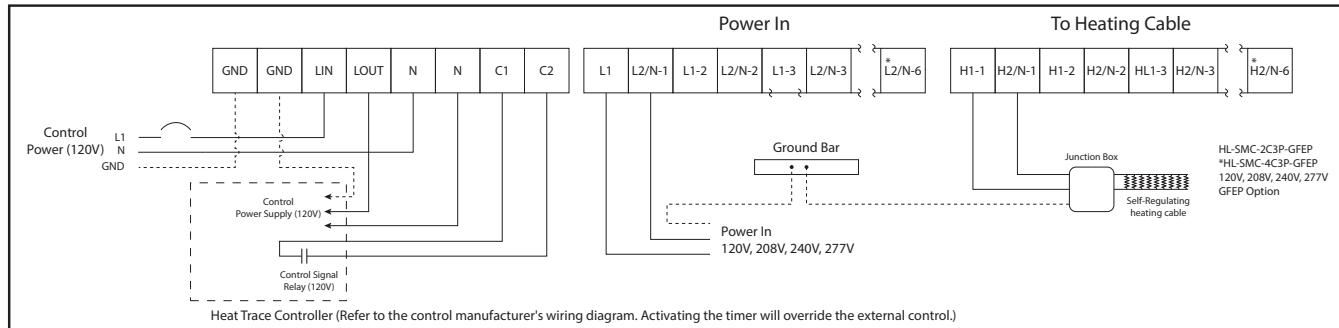
- Electric Arc Flash Hazard. Will cause severe injury or death. Wear proper protective equipment before opening or performing diagnostic measurements while energized.
- To reduce the risk of fire or electric shock, current-carrying parts and the other components of the controller should be examined and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

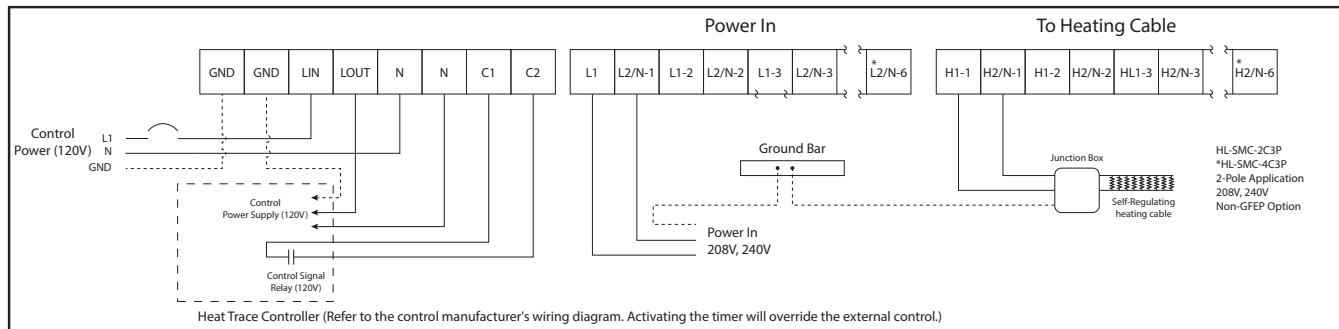
For additional installation questions, support, or replacement parts contact Heat-Line at (800) 584-4944 or support@heatline.com.

## 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**

