

6012 Series Heater Control Panel

The **Integrate d Flow Solutions** 6012 Series Electric Heater Control Panels offer convenient, economical control of resistive loads. A broad list of configuration options allow the 6012 series control panel to fit most common electric heater control requirements. These pre-engineered, pre-wired panels require only sensor, load and power supply connections. The 6012 Series Heater Control Panel totally eliminates the engineering, design, component procurement, assembly and testing steps required to build a control panel.



Industries



REFINING



CHEMICAL



PIPELINE



OFF-SHORE

Benefits

SCR power control efficiently and accurately proportions power to the resistive heating load. Unlike traditional contactor control, SCR's deliver:

- Reduced Power Cost
- Extended Heater Life
- Lower Maintenance
- Improved Process Products
- Stable Process Temperature
- Complete Control Function Testing
- 24/7 Customer service

Custom Configurations

Integrated Flow Solutions offers customized heater control panels to meet customer specific applications around the world. Call for more information

Standard Features

- Painted Steel NEMA 12 Enclosure
- 3-Leg, 2-wire Zero-cross SCR Power Control protected by fast acting fuses
- Fan Cooling
- Load Fusing for up to 8 Circuits
- Lockable Main Power Disconnect
- 120 Volt Control Power transformer with primary and secondary fusing
- Front Panel Power and Alarm Indicator Lights
- Element Over-temperature Controller Manual Reset and Safety Contactor
- Dry Contacts for External Run (Shut-down) Permissive
- Field Selectable Process or Differential Temperature Control
- Front Display Process Temperature and Set Point(s)
- Convenient Wall Mount Design

Optional Features

- Process Temperature Limit Controller
- Shorted SCR Detection
- Ground Fault Monitor & Shutdown with Illuminated Reset
- Ammeter & Voltmeter
- Floor Stand
- 1 to 8 Circuits

6012 Series Heater Control Panel Configuration

Model

6012 Three Phase 2-Leg Zero Cross SCR Heater Control Panel

Ordering Information

Complete the Model Number using this Matrix

UL Listed Three Phase SCR Heater Control Panel. Features: Fast acting fuses for SCR Protection, Factory pre-wired for quick installation, 120 VAC Control power Transformer with Primary & Secondary Fusing, NEMA 12 rated Enclosure for Indoor Installations, Forced Air Cooling, Lockable Main Power Disconnect Switch, Front Panel Alarm Lamp. Options Include: Process and Hi-Limit Controllers, Ground Fault Monitor, Sub-Circuit Fusing for Heater Load, Shorted SCR Detection, Ammeter and Voltmeter with Phase Selector Switch and Floor Stand Kit.

| Code | Current at 40°C | Enclosure Dimensions |
|------|-----------------|-----------------------------|
| 02 | 100 Amp | 60" x 36" x 12" |
| 03 | 150 Amp | 60" x 36" x 12" |
| 06 | 200 Amp | 60" x 36" x 12" |
| 08 | 300 Amp | 60" x 36" x 12" |
| 10 | 400 Amp | 72" x 36" x 12" |
| 12 | 550 Amp | 72" x 36" x 12" |
| 14 | 650 Amp | 72" x 36" x 12" |
| 15 | 800 Amp | 72" x 72" x 12" Floor Mount |
| 16 | 1000 Amp | 72" x 72" x 12" Floor Mount |

| Code | Voltage | Code | Voltage |
|------|---------|------|---------|
| 1 | 208 Vac | 4 | 415 Vac |
| 2 | 240 Vac | 5 | 480 Vac |
| 3 | 380 Vac | 6 | 575 Vac |

| Code | Process Over-temperature Controller Option |
|------|---|
| 0 | None |
| 1 | Process High Temperature Shut-down Controller |

| Code | Ground Fault/Shorted SCR Detection |
|------|--|
| 0 | None |
| 1 | Shorted SCR Detection |
| 4 | Ground Fault Monitor & Shorted SCR Detection |

| Code | Options |
|------|----------------------------------|
| 0 | None |
| 4 | Ammeter & Voltmeter |
| 5 | Ammeter, Voltmeter & Floor Stand |

| Code | Load Fusing Option |
|---------|---------------------------------|
| 9010(*) | 8 Amps/Circuit (10 Amp Fuse) |
| 9015(*) | 12 Amps/Circuit (15 Amp Fuse) |
| 9020(*) | 16 Amps/Circuit (20 Amp Fuse) |
| 9025(*) | 20 Amps/Circuit (25 Amp Fuse) |
| 9030(*) | 24 Amps/Circuit (30 Amp Fuse) |
| 9035(*) | 28 Amps/Circuit (35 Amp Fuse) |
| 9040(*) | 32 Amps/Circuit (40 Amp Fuse) |
| 9045(*) | 36 Amps/Circuit (45 Amp Fuse) |
| 9050(*) | 40 Amps/Circuit (50 Amp Fuse) |
| 9060(*) | 48 Amps/Circuit (60 Amp Fuse) |
| 9070(*) | 56 Amps/Circuit (70 Amp Fuse) |
| 9080(*) | 64 Amps/Circuit (80 Amp Fuse) |
| 9090(*) | 72 Amps/Circuit (90 Amp Fuse) |
| 9100(*) | 80 Amps/Circuit (100 Amp Fuse) |
| 9110(*) | 88 Amps/Circuit (110 Amp Fuse) |
| 9125(*) | 100 Amps/Circuit (125 Amp Fuse) |
| 9150(*) | 120 Amps/Circuit (150 Amp Fuse) |
| 9175(*) | 140 Amps/Circuit (175 Amp Fuse) |
| 9200(*) | 160 Amps/Circuit (200 Amp Fuse) |

Technical Notes:

1. Load fuse rating reflects 125% of actual load amps.
2. Ventilated NEMA 12 enclosure derates enclosure to NEMA 1

6012 - 02 5 0 0 0 - 9025(5) Typical Model Number