6012 Series Heater Control Panel

The Integrated 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

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

Custom Configurations
Integrated Flow Solutions offers customized heater control panels to meet customer specific applications around the world. Call for more information
### 6012 Series Heater Control Panel Configuration

**Ordering Information**

Complete the Model Number using this Matrix

<table>
<thead>
<tr>
<th>Code</th>
<th>Current at 40°C</th>
<th>Enclosure Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>02</td>
<td>100 Amp</td>
<td>60” x 36” x 12”</td>
</tr>
<tr>
<td>03</td>
<td>150 Amp</td>
<td>60” x 36” x 12”</td>
</tr>
<tr>
<td>06</td>
<td>200 Amp</td>
<td>60” x 36” x 12”</td>
</tr>
<tr>
<td>08</td>
<td>300 Amp</td>
<td>60” x 36” x 12”</td>
</tr>
<tr>
<td>10</td>
<td>400 Amp</td>
<td>72” x 36” x 12”</td>
</tr>
<tr>
<td>12</td>
<td>550 Amp</td>
<td>72” x 36” x 12”</td>
</tr>
<tr>
<td>14</td>
<td>650 Amp</td>
<td>72” x 36” x 12”</td>
</tr>
<tr>
<td>15</td>
<td>800 Amp</td>
<td>72” x 72” x 12” Floor Mount</td>
</tr>
<tr>
<td>16</td>
<td>1000 Amp</td>
<td>72” x 72” x 12” Floor Mount</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Voltage</th>
<th>Code</th>
<th>Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>208 Vac</td>
<td>4</td>
<td>415 Vac</td>
</tr>
<tr>
<td>2</td>
<td>240 Vac</td>
<td>5</td>
<td>480 Vac</td>
</tr>
<tr>
<td>3</td>
<td>380 Vac</td>
<td>6</td>
<td>575 Vac</td>
</tr>
</tbody>
</table>

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

**Model**

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


**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)

**Typical Model Number**

6012 - 02 5 0 0 0 - 9025(5)