**Raychem HTPI**

HEAT-TRACING POWER DISTRIBUTION PANEL FOR INDIVIDUAL CONTROL

Ground-fault protection, monitoring, and optional alarm panel

**PRODUCT OVERVIEW**

The Raychem HTPI is a dedicated power distribution, monitoring, and alarm panel for heat-tracing applications. It is intended for applications requiring tight band temperature maintenance with individual line-sensing control. The wall-mounted enclosure contains an assembled circuit-breaker panelboard.

Panels can be equipped with standard circuit breakers without alarms, ground-fault breakers, or ground-fault breakers with alarms.

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**LOAD POWER**

120 / 208 / 240 / 277 Vac

**AMBIENT OPERATING TEMPERATURE**

32°F (0°C) to 122°F (50°C) (without space heater option)

**FIELD WIRE SIZE**

14–8 AWG (15–30 Amp C.B.), 8–4 AWG (40–50 Amp C.B.)

**CIRCUIT BREAKER TYPES**

<table>
<thead>
<tr>
<th>Type</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ground-fault breaker</td>
<td>Square D types QOB-EPD, EHB-EPD</td>
</tr>
<tr>
<td>Standard circuit breaker</td>
<td>Square D type QOB</td>
</tr>
</tbody>
</table>

* To comply with NEC Article 427-55(a), circuit breakers are equipped with the means for lockout in the “Off” position.
**CIRCUIT BREAKER AMPERAGE RATING**

<table>
<thead>
<tr>
<th>Voltage</th>
<th>20 A, 30 A, 40 A*, 50 A*</th>
<th>20 A, 30 A, 40 A, 50 A</th>
</tr>
</thead>
<tbody>
<tr>
<td>120 Vac</td>
<td>20 A, 30 A, 40 A*, 50 A*</td>
<td>* Overcurrent C.B. only</td>
</tr>
<tr>
<td>208 / 240 / 277 Vac</td>
<td>20 A, 30 A, 40 A, 50 A</td>
<td></td>
</tr>
</tbody>
</table>

**APPROVALS**

- ETL LISTED
- CONFORMS TO ANSI/UL STD. 508
- UL STD. 508A
- CERTIFIED TO CAN/CSA C22.2 NO. 14

**HTPI TYPICAL PROCESS MAINTENANCE APPLICATION SCHEMATIC**

- Three-pole main circuit breaker
- One-pole with 30-mA ground-fault trip (120/277 Vac)
- Two-pole with 30-mA ground-fault trip (208/240 Vac)
- Power connection
- Heating cable
- Alarm remote annunciation (with alarm option)
- Line-sensing thermostat or Raychem 910 or 920 controller (sold separately)
- Process-maintenance circuit
- End seal
- Braid/pipe

**HTPI CATALOG NUMBER**

HTPI comes in a variety of configurations. The following chart outlines the elements that constitute a configuration and the corresponding catalog number.

- Voltage
  - 120/208
  - 120/240*
  - 277/480
- Panelboard size
  - 18 = 18 space panelboard
  - 30 = 30 space panelboard
  - 42 = 42 space panelboard
- Circuit breaker type
  - 1 = Overcurrent circuit breakers**
  - 2 = GFCB (30-mA trip) without alarm
  - 3 = GFCB (30-mA trip) with bell alarm
  - 4 = GFCB (30-mA trip) with relay alarm (includes terminal block option). Not available for 277 V
- Number of circuit breakers/number of poles (circuit breaker rating) see prior page
- Options
  - 0 = None
  - A = Alarm horn [requires C.B. type 3 or 4]
  - B = Alarm beacon [requires C.B. type 3 or 4]
  - D = Door disconnect
  - E = Environmental purge (TYPE 4 or 4X enclosures only)
  - G = Panel power-on light
  - H = Space heater and thermostat
  - L = Individual circuit breaker trip indication lights (requires C.B. type 4)
  - T = Terminal blocks (prewired)
  - Z = Z-purge system (TYPE 4 or 4X enclosures only)
  - SP = Special requirement. Must contain complete description of variance

**MCB**

- Main circuit breaker size or MLO for no main breaker
- Panelboard size
  - 120/208
  - 120/240
  - 277/480
- Enclosure
  - 1 = TYPE 1 (indoors)
  - 12 = TYPE 12 (indoors)
  - 4 = TYPE 4 (outdoors)
  - 4X = TYPE 4X (stainless steel–outdoors)

* Single phase
** Overcurrent circuit breakers require ground-fault protection from controller

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*Note: The diagram and chart provide a visual and tabular representation of the various components and configurations available for HTPI industrial heat tracing solutions.*