The **HPS Imperator™** series of machine tool industrial molded control transformers are available in many standard offerings. This wiring hook-up instruction sheet refers to all standard **HPS Imperator™** series part number suffixes. (Note: standard secondary fuse kits (not installed) supplied with each transformer unless otherwise indicated; field installed primary fuse kits sold separately; fuses not available from HPS.)

If you have any questions regarding these wiring diagrams or are having any difficulty correctly installing our transformers, please contact HPS customer service or technical support in the U.S. at 1-866-705-4684 or in Canada at 1-888-798-8882.

**HPS Imperator™** Series - Wiring Schematic Drawings

### PH***AJ Schematic for 50, 75 and 100VA Units

- **High Voltage (HV)**
  - (Primary Volts)
  - 600 575 550
  - 600 575 550

- **Install Supplied Jumpers/Links Between Terminals**
  - None
  - None

- **Supply Lines Connect To**
  - 1, 4
  - 6, 7

- **Install Fuse Clips To**
  - Unfused
  - 1-5, 4-8

- **Low Voltage (LV)**
  - (Secondary Volts)
  - 120 115 110
  - 240 230 220
  - 120 115 110
  - 240 230 220

- **Install Supplied Links Between Terminals**
  - 3-4, 1-2
  - 2-3
  - 3-4, 1-2
  - 2-3

- **Load Lines Connect To**
  - 1, 4
  - 1, 4
  - 4, 6
  - 4, 6

- **Install Fuse Clips To**
  - Unfused
  - Unfused
  - 1-5
  - 1-5

### PH***AJ Schematic for 150VA to 1500VA Units

- **High Voltage (HV)**
  - (Primary Volts)
  - 600 575 550
  - 600 575 550

- **Install Supplied Jumpers/Links Between Terminals**
  - None
  - None

- **Supply Lines Connect To**
  - 2, 5
  - 1, 6

- **Install Fuse Clips To**
  - Unfused
  - 2-7, 5-8

- **Low Voltage (LV)**
  - (Secondary Volts)
  - 120 115 110
  - 240 230 220
  - 120 115 110
  - 240 230 220

- **Install Supplied Links Between Terminals**
  - 4-5, 2-3
  - 3-4
  - 4-5, 2-3
  - 3-4

- **Load Lines Connect To**
  - 2, 5
  - 1, 5

- **Install Fuse Clips To**
  - Unfused
  - Unfused
  - 2-7
  - 2-7
**HPS IMPERATOR™ Series - Wiring Schematic Drawings continued**

### PH***MQMJ Schematic for 50, 75 and 100VA Units

<table>
<thead>
<tr>
<th>High Voltage (HV) (Primary Volts)</th>
<th>Install Supplied Links Between Terminals</th>
<th>Supply Lines Connect To</th>
<th>Install Fuse Clips To</th>
</tr>
</thead>
<tbody>
<tr>
<td>240 230 220</td>
<td>1-2, 3-4</td>
<td>1, 4</td>
<td>Unfused</td>
</tr>
<tr>
<td>480 460 440</td>
<td>2-3</td>
<td>1, 4</td>
<td>Unfused</td>
</tr>
<tr>
<td>240 230 220</td>
<td>1-2, 3-4</td>
<td>6, 7</td>
<td>1-5, 4-8</td>
</tr>
<tr>
<td>480 460 440</td>
<td>2-3</td>
<td>6, 7</td>
<td>1-5, 4-8</td>
</tr>
<tr>
<td>120 115 110</td>
<td>3-4, 1-2</td>
<td>1, 4</td>
<td>Unfused</td>
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<td>120 115 110</td>
<td>3-4, 1-2</td>
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<td>1-5</td>
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<tr>
<td>240 230 220</td>
<td>2-3</td>
<td>4, 6</td>
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</table>

### PH***MQMJ Schematic for 150VA to 1500VA Units

<table>
<thead>
<tr>
<th>High Voltage (HV) (Primary Volts)</th>
<th>Install Supplied Links Between Terminals</th>
<th>Supply Lines Connect To</th>
<th>Install Fuse Clips To</th>
</tr>
</thead>
<tbody>
<tr>
<td>240 230 220</td>
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<td>480 460 440</td>
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<td>2, 5</td>
<td>Unfused</td>
</tr>
<tr>
<td>240 230 220</td>
<td>2-3, 4-5</td>
<td>1, 6</td>
<td>2-7, 5-8</td>
</tr>
<tr>
<td>480 460 440</td>
<td>3-4</td>
<td>1, 6</td>
<td>2-7, 5-8</td>
</tr>
<tr>
<td>120 115 110</td>
<td>4-5, 2-3</td>
<td>2, 5</td>
<td>Unfused</td>
</tr>
<tr>
<td>240 230 220</td>
<td>3-4</td>
<td>2, 5</td>
<td>Unfused</td>
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<tr>
<td>120 115 110</td>
<td>4-5, 2-3</td>
<td>1, 5</td>
<td>2-7</td>
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<tr>
<td>240 230 220</td>
<td>3-4</td>
<td>1, 5</td>
<td>2-7</td>
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</table>

### PH***PG Schematic for 50, 75 and 100VA Units

<table>
<thead>
<tr>
<th>High Voltage (HV) (Primary Volts)</th>
<th>Install Supplied Links Between Terminals</th>
<th>Supply Lines Connect To</th>
<th>Install Fuse Clips To</th>
</tr>
</thead>
<tbody>
<tr>
<td>120 115 110</td>
<td>1-2, 3-4</td>
<td>1, 4</td>
<td>Unfused</td>
</tr>
<tr>
<td>240 230 220</td>
<td>2-3</td>
<td>1, 4</td>
<td>Unfused</td>
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<tr>
<td>120 115 110</td>
<td>1-2, 3-4</td>
<td>6, 7</td>
<td>1-5, 4-8</td>
</tr>
<tr>
<td>240 230 220</td>
<td>2-3</td>
<td>6, 7</td>
<td>1-5, 4-8</td>
</tr>
<tr>
<td>12 11.5 11</td>
<td>3-4, 1-2</td>
<td>1, 4</td>
<td>Unfused</td>
</tr>
<tr>
<td>24 23 22</td>
<td>2-3</td>
<td>1, 4</td>
<td>Unfused</td>
</tr>
<tr>
<td>12 11.5 11</td>
<td>3-4, 1-2</td>
<td>4, 6</td>
<td>1-5</td>
</tr>
<tr>
<td>24 23 22</td>
<td>2-3</td>
<td>4, 6</td>
<td>1-5</td>
</tr>
</tbody>
</table>
**PH***PG Schematic for 150VA to 500VA Units**

### High Voltage (HV)
- **(Primary Volts)**
  - 120
  - 115
  - 110
- **Install Supplied Links Between Terminals**
  - 2-3, 4-5
- **Supply Lines Connect To**
  - 2, 5
- **Install Fuse Clips To**
  - Unfused

### Low Voltage (LV)
- **(Secondary Volts)**
  - 12
  - 11.5
  - 11
- **Install Supplied Links Between Terminals**
  - 4-5, 2-3
- **Load Lines Connect To**
  - 2, 5
- **Install Fuse Clips To**
  - Unfused

**Note:** secondary fuse clips not available on PH750PG or PH1000PG.

---

**PH***MLI Schematic for 50, 75 and 100VA Units**

### High Voltage (HV)
- **(Primary Volts)**
  - 480
  - 460
  - 440
- **Install Supplied Jumpers Between Terminals**
  - None
- **Supply Lines Connect To**
  - 1, 3
- **Install Fuse Clips To**
  - Unfused

### Low Voltage (LV)
- **(Secondary Volts)**
  - 120
  - 115
  - 110
- **Install Supplied Jumpers Between Terminals**
  - None
- **Load Lines Connect To**
  - 1, 4
- **Install Fuse Clips To**
  - Unfused
PH***MLI Schematic for 750VA and 1000VA Units

High Voltage (HV) (Primary Volts) | Install Supplied Jumpers Between Terminals | Supply Lines Connect To | Install Fuse Clips To
--- | --- | --- | ---
480 460 440 | None | 2, 6 | Unfused
240 230 220 | None | 2, 4 | Unfused
208 200 | None | 2, 3 | Unfused
480 460 440 | 8-6 | 1, 5 | 2-7, 5-8
240 230 220 | 4-8 | 1, 5 | 2-7, 5-8
208 200 | 3-8 | 1, 5 | 2-7, 5-8

Low Voltage (LV) (Secondary Volts) | Install Supplied Jumpers Between Terminals | Load Lines Connect To | Install Fuse Clips To
--- | --- | --- | ---
120 115 110 | None | 2, 4 | Unfused
25 24 23 | None | 2, 3 | Unfused
120 115 110 | None | 1, 4 | 2-7
25 24 23 | None | 1, 3 | 2-7

Note: secondary fuse clips for 24V tap not available on the PH750MLI or PH1000MLI units.

PH***AR Schematic for 50, 75 and 100VA Units

High Voltage (HV) (Primary Volts) | Install Supplied Jumpers/Links Between Terminals | Supply Lines Connect To | Install Fuse Clips To
--- | --- | --- | ---
600 575 550 | None | 1, 4 | Unfused
600 575 550 | None | 6, 7 | 1-5, 4-8

Low Voltage (LV) (Secondary Volts) | Install Supplied Links Between Terminals | Load Lines Connect To | Install Fuse Clips To
--- | --- | --- | ---
12 11.5 11 | 3-4, 1-2 | 1, 4 | Unfused
24 23 22 | 2-3 | 1, 4 | Unfused
12 11.5 11 | 3-4, 1-2 | 4, 6 | 1-5
24 23 22 | 2-3 | 4, 6 | 1-5
PH***AR Schematic for 150VA to 500VA Units

High Voltage (HV) (Primary Volts) | Install Supplied Jumpers/Links Between Terminals | Supply Lines Connect To | Install Fuse Clips To
---|---|---|---
600 575 550 | None | 2, 5 | Unfused
600 575 550 | None | 1, 6 | 2-7, 5-8

Low Voltage (LV) (Secondary Volts) | Install Supplied Links Between Terminals | Load Lines Connect To | Install Fuse Clips To
---|---|---|---
12 11.5 11 | 4-5, 2-3 | 2, 5 | Unfused
24 23 22 | 3-4 | 2, 5 | 2-7
12 11.5 11 | 4-5, 2-3 | 1, 5 | 2-7
24 23 22 | 3-4 | 1, 5 | 2-7

PH***QR Schematic for 50, 75 and 100VA Units

High Voltage (HV) (Primary Volts) | Install Supplied Links Between Terminals | Supply Lines Connect To | Install Fuse Clips To
---|---|---|---
240 230 220 | 1-2, 3-4 | 1, 4 | Unfused
480 460 440 | 2-3 | 1, 4 | 1-5, 4-8
240 230 220 | 1-2, 3-4 | 6, 7 | 1-5, 4-8
480 460 440 | 2-3 | 6, 7 | 1-5, 4-8

Low Voltage (LV) (Secondary Volts) | Install Supplied Links Between Terminals | Load Lines Connect To | Install Fuse Clips To
---|---|---|---
12 11.5 11 | 3-4, 1-2 | 1, 4 | Unfused
24 23 22 | 2-3 | 1, 4 | 1-5
12 11.5 11 | 3-4, 1-2 | 4, 6 | 1-5
24 23 22 | 2-3 | 4, 6 | 1-5

PH***QR Schematic for 150VA to 500VA Units

High Voltage (HV) (Primary Volts) | Install Supplied Links Between Terminals | Supply Lines Connect To | Install Fuse Clips To
---|---|---|---
240 230 220 | 2-3, 4-5 | 2, 5 | Unfused
480 460 440 | 3-4 | 2, 5 | 2-7, 5-8
240 230 220 | 2-3, 4-5 | 1, 6 | 2-7, 5-8
480 460 440 | 3-4 | 1, 6 | 2-7, 5-8

Low Voltage (LV) (Secondary Volts) | Install Supplied Links Between Terminals | Load Lines Connect To | Install Fuse Clips To
---|---|---|---
12 11.5 11 | 4-5, 2-3 | 2, 5 | Unfused
24 23 22 | 3-4 | 2, 5 | 2-7
12 11.5 11 | 4-5, 2-3 | 1, 5 | 2-7
24 23 22 | 3-4 | 1, 5 | 2-7
### PH***SP Schematic for 50, 75 and 100VA Units

<table>
<thead>
<tr>
<th>High Voltage (HV)</th>
<th>Install Supplied Links Between Terminals</th>
<th>Supply Lines Connect To</th>
<th>Install Fuse Clips To</th>
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<tbody>
<tr>
<td>208 200 190</td>
<td>1-2, 3-4</td>
<td>1, 4</td>
<td>Unfused</td>
</tr>
<tr>
<td>416 400 380</td>
<td>2-3</td>
<td>1, 4</td>
<td>Unfused</td>
</tr>
<tr>
<td>208 200 190</td>
<td>1-2, 3-4</td>
<td>6, 7</td>
<td>1-5, 4-8</td>
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<td>2-3</td>
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<tbody>
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<td>120 115 110</td>
<td>3-4, 1-2</td>
<td>1, 4</td>
<td>Unfused</td>
</tr>
<tr>
<td>240 230 220</td>
<td>2-3</td>
<td>1, 4</td>
<td>Unfused</td>
</tr>
<tr>
<td>120 115 110</td>
<td>3-4, 1-2</td>
<td>4, 6</td>
<td>1-5</td>
</tr>
<tr>
<td>240 230 220</td>
<td>2-3</td>
<td>4, 6</td>
<td>1-5</td>
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</table>

### PH***SP Schematic for 150VA to 1000VA Units

<table>
<thead>
<tr>
<th>High Voltage (HV)</th>
<th>Install Supplied Links Between Terminals</th>
<th>Supply Lines Connect To</th>
<th>Install Fuse Clips To</th>
</tr>
</thead>
<tbody>
<tr>
<td>208 200 190</td>
<td>2-3, 4-5</td>
<td>2, 5</td>
<td>Unfused</td>
</tr>
<tr>
<td>416 400 380</td>
<td>3-4</td>
<td>2, 5</td>
<td>Unfused</td>
</tr>
<tr>
<td>208 200 190</td>
<td>2-3, 4-5</td>
<td>1, 6</td>
<td>2-7, 5-8</td>
</tr>
<tr>
<td>416 400 380</td>
<td>3-4</td>
<td>1, 6</td>
<td>2-7, 5-8</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Low Voltage (LV)</th>
<th>Install Supplied Links Between Terminals</th>
<th>Load Lines Connect To</th>
<th>Install Fuse Clips To</th>
</tr>
</thead>
<tbody>
<tr>
<td>120 115 110</td>
<td>4-5, 2-3</td>
<td>2, 5</td>
<td>Unfused</td>
</tr>
<tr>
<td>240 230 220</td>
<td>3-4</td>
<td>2, 5</td>
<td>Unfused</td>
</tr>
<tr>
<td>120 115 110</td>
<td>4-5, 2-3</td>
<td>1, 5</td>
<td>2-7</td>
</tr>
<tr>
<td>240 230 220</td>
<td>3-4</td>
<td>1, 5</td>
<td>2-7</td>
</tr>
</tbody>
</table>

### PH***PP Schematic for 50, 75 and 100VA Units

<table>
<thead>
<tr>
<th>High Voltage (HV)</th>
<th>Install Supplied Links Between Terminals</th>
<th>Supply Lines Connect To</th>
<th>Install Fuse Clips To</th>
</tr>
</thead>
<tbody>
<tr>
<td>120 115 110</td>
<td>1-2, 3-4</td>
<td>1, 4</td>
<td>Unfused</td>
</tr>
<tr>
<td>240 230 220</td>
<td>2-3</td>
<td>1, 4</td>
<td>Unfused</td>
</tr>
<tr>
<td>120 115 110</td>
<td>1-2, 3-4</td>
<td>6, 7</td>
<td>1-5, 4-8</td>
</tr>
<tr>
<td>240 230 220</td>
<td>2-3</td>
<td>6, 7</td>
<td>1-5, 4-8</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Low Voltage (LV)</th>
<th>Install Supplied Links Between Terminals</th>
<th>Load Lines Connect To</th>
<th>Install Fuse Clips To</th>
</tr>
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<tbody>
<tr>
<td>120 115 110</td>
<td>3-4, 1-2</td>
<td>1, 4</td>
<td>Unfused</td>
</tr>
<tr>
<td>240 230 220</td>
<td>2-3</td>
<td>1, 4</td>
<td>Unfused</td>
</tr>
<tr>
<td>120 115 110</td>
<td>3-4, 1-2</td>
<td>4, 6</td>
<td>1-5</td>
</tr>
<tr>
<td>240 230 220</td>
<td>2-3</td>
<td>4, 6</td>
<td>1-5</td>
</tr>
</tbody>
</table>
### PH***PP Schematic for 150VA to 1500VA Units

#### High Voltage (HV) (Primary Volts)
- **120 115 110**: Connect to clips 2-3, 4-5; Supply Lines to 2, 5; Install Fuse Clips To Unfused.
- **240 230 220**: Connect to clips 3-4; Supply Lines to 2, 5; Install Fuse Clips To Unfused.
- **120 115 110**: Connect to clips 2-3, 4-5; Supply Lines to 1, 6; Install Fuse Clips To 2-7, 5-8.
- **240 230 220**: Connect to clips 3-4; Supply Lines to 1, 6; Install Fuse Clips To 2-7, 5-8.

#### Low Voltage (LV) (Secondary Volts)
- **120 115 110**: Connect to clips 4-5, 2-3; Supply Lines to 2, 5; Install Fuse Clips To Unfused.
- **240 230 220**: Connect to clips 3-4; Supply Lines to 2, 5; Install Fuse Clips To Unfused.
- **120 115 110**: Connect to clips 4-5, 2-3; Supply Lines to 1, 5; Install Fuse Clips To 2-7.
- **240 230 220**: Connect to clips 3-4; Supply Lines to 1, 5; Install Fuse Clips To 2-7.

### PH***MBMH Schematic for 50 and 75VA Units

#### High Voltage (HV) (Primary Volts)
- **600 575 550**: Connect to clips 1, 3; Supply Lines to 1, 3; Install Fuse Clips To Unfused.
- **480 460 440**: Connect to clips 1, 7; Supply Lines to 1, 7; Install Fuse Clips To Unfused.
- **240 230 220**: Connect to clips 1, 7; Supply Lines to 1, 7; Install Fuse Clips To Unfused.
- **600 575 550**: Connect to clips 3-8, 6, 4; Supply Lines to 1-5, 4-8.
- **480 460 440**: Connect to clips 8-7, 6, 4; Supply Lines to 1-5, 4-8.
- **240 230 220**: Connect to clips 8-7, 6, 4; Supply Lines to 1-5, 4-8.

#### Low Voltage (LV) (Secondary Volts)
- **120 115 110**: Connect to clips 4, 6; Supply Lines to 1-5; Install Fuse Clips To 1-5.
- **100 95 90**: Connect to clips 3, 6; Supply Lines to 1-5; Install Fuse Clips To 1-5.

### PH***MBMH Schematic for 100VA to 1500VA Units

#### High Voltage (HV) (Primary Volts)
- **600 575 550**: Connect to clips 2, 6; Supply Lines to 2, 6; Install Fuse Clips To Unfused.
- **480 460 440**: Connect to clips 2, 4; Supply Lines to 2, 4; Install Fuse Clips To Unfused.
- **240 230 220**: Connect to clips 2, 4; Supply Lines to 2, 4; Install Fuse Clips To Unfused.
- **600 575 550**: Connect to clips 8-6, 1, 5; Supply Lines to 2-7, 5-8.
- **480 460 440**: Connect to clips 4-8, 1, 5; Supply Lines to 2-7, 5-8.
- **240 230 220**: Connect to clips 4-8, 1, 5; Supply Lines to 2-7, 5-8.

#### Low Voltage (LV) (Secondary Volts)
- **120 115 110**: Connect to clips 2, 4; Supply Lines to 2, 4; Install Fuse Clips To Unfused.
- **100 95 90**: Connect to clips 2, 4; Supply Lines to 2, 4; Install Fuse Clips To Unfused.

---

Note: The diagrams and tables represent the wiring schematics for the indicated voltage ranges and units. The diagrams illustrate the connections and configurations for high voltage and low voltage installations, including the supply lines and fuse clips locations.
PH***MEMX Schematic for 50, 75 and 100VA Units

High Voltage (HV) (Primary Volts)
- 415V
- 400V
- 380V
Install Supplied Jumpers Between Terminals
- None
Connect To
- 1, 3
- 1, 7
- 1, 2
Fused Status
- Unfused
- Unfused
- Unfused

Low Voltage (LV) (Secondary Volts)
- 110V
- 220V
Install Supplied Links Between Terminals
- 3-4, 1-2
Connect To
- 1, 4
- 1, 4
- 1-5
Fused Status
- Unfused
- Unfused
- 1-5

PH***MEMX Schematic for 150VA to 1000VA Units

High Voltage (HV) (Primary Volts)
- 415V
- 400V
- 380V
Install Supplied Jumpers Between Terminals
- None
Connect To
- 2, 6
- 2, 4
- 2, 3
Fused Status
- Unfused
- Unfused
- Unfused

Low Voltage (LV) (Secondary Volts)
- 110V
- 220V
Install Supplied Links Between Terminals
- 4-5, 2-3
Connect To
- 2, 5
- 2, 5
- 2-7
Fused Status
- Unfused
- Unfused
- 2-7

PH***MGJ Schematic for 50, 75 and 100VA Units

High Voltage (HV) (Primary Volts)
- 380V
Install Supplied Jumpers Between Terminals
- None
Connect To
- 1, 3
- 1, 7
- 1, 2
Fused Status
- Unfused
- Unfused
- Unfused

Low Voltage (LV) (Secondary Volts)
- 120V
- 240V
Install Supplied Links Between Terminals
- 3-4, 1-2
Connect To
- 1, 4
- 1, 4
- 1-5
Fused Status
- Unfused
- Unfused
- 1-5
### PH***MGJ Schematic for 150VA to 1000VA Units

#### High Voltage (HV) (Primary Volts)

<table>
<thead>
<tr>
<th>Volts</th>
<th>Install Supplied Jumpers</th>
<th>Supply Lines Connect To</th>
<th>Install Fuse Clips To</th>
</tr>
</thead>
<tbody>
<tr>
<td>380</td>
<td>None</td>
<td>2, 6</td>
<td>Unfused</td>
</tr>
<tr>
<td>277</td>
<td>None</td>
<td>2, 4</td>
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</tr>
<tr>
<td>208</td>
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<td>2, 3</td>
<td>Unfused</td>
</tr>
<tr>
<td>380</td>
<td>8-6</td>
<td>1, 5</td>
<td>2-7, 5-8</td>
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<td>277</td>
<td>4-8</td>
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<td>208</td>
<td>3-8</td>
<td>1, 5</td>
<td>2-7, 5-8</td>
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</tbody>
</table>

#### Low Voltage (LV) (Secondary Volts)

<table>
<thead>
<tr>
<th>Volts</th>
<th>Install Supplied Links Between Terminals</th>
<th>Load Lines Connect To</th>
<th>Install Fuse Clips To</th>
</tr>
</thead>
<tbody>
<tr>
<td>120</td>
<td>4-5, 2-3</td>
<td>2, 5</td>
<td>Unfused</td>
</tr>
<tr>
<td>240</td>
<td>3-4</td>
<td>2, 5</td>
<td>Unfused</td>
</tr>
<tr>
<td>120</td>
<td>4-5, 2-3</td>
<td>1, 5</td>
<td>2-7</td>
</tr>
<tr>
<td>240</td>
<td>3-4</td>
<td>1, 5</td>
<td>2-7</td>
</tr>
</tbody>
</table>

Dotted line represents supplied jumper lead.