HPS Spartan®
Industrial Open Core &
Coil Control Transformer
Hammond Power Solutions Inc. (HPS) is the North American leader for the design and manufacture of high quality standard and custom electrical dry-type transformers and related engineered magnetic devices. Our global footprint has expanded with the addition of facilities in Europe & India. HPS excels at designing products that have very specific application constraints. Having an extensive engineering resource, HPS offers the broadest range of electrical products in the industry and as a result, the company has grown in many diverse markets and provides services to many global leaders.

Hammond Power Solutions Inc., with its headquarters in Guelph, Ontario, Canada, operates out of ten facilities:

- Guelph, Ontario
- Baraboo, Wisconsin
- Vicenza, Italy
- Walkerton, Ontario
- Compton, California
- Marnate, Italy
- Monterrey, Mexico
- Granby, Quebec
- Hyderabad, India

**QUALITY**

HPS has been highly regarded for quality products and service since inception. Customers have come to rely on our products and services. Extensive testing programs and an exemplary field service record ensures that HPS products not only meet all the standards necessary, but more importantly, fulfill customers expectations and requirements.

**DESIGN CAPABILITIES**

HPS engineering services are located throughout our manufacturing facilities. Our designs are cost effective and our transformers are built with modern manufacturing techniques. We particularly emphasize our Value Added Engineering whereby our design staff will interface with your team to produce the optimum transformer. Our 3-D modelling design and CAD facilities permits quick and effective communication when time is vital.

**CUSTOMERS**

Through our extensive standard and custom product offering, HPS is able to provide a convenient one source solution for a wide variety of markets

Our engineering design staff work directly with you to produce the most optimum and cost effective solution for your application. We will design to your specification requirements and all transformers are built with modern manufacturing techniques.

Our innovative products are used in the most demanding applications requiring performance, reliability, and energy efficiency.

**MARKETS**

- Construction
- Commercial
- Hydro
- Wind Power
- Solar Power
- Petrochemical
- Mining
- Industrial
VALUE
The HPS Spartan® series of industrial control transformers are ideally suited for general purpose, industrial and light duty loads.

Designed for applications where high inrush or machine tool duty are not necessary, the HPS Spartan control transformer offers an efficient and economical solution.

APPLICATIONS
- Process Controls
- Panel Shops
- Machine Automation
- Control Boards
- HVAC Panels
- Power Timers, Solenoids and Controllers

INDUSTRIES
- Commercial
- Agriculture
- Automation

FEATURES AND BENEFITS
- Multi-voltage primary and secondary models increase range of application per unit
- Standard molded terminal blocks or primary and secondary up to 3000VA (30A) units
- Solid terminal block with standard combination screw connection
- 50/60 Hz (60 Hz on SP***ACP and SP***AR)
- Copper wound coils with high dielectric strength insulation
- Bolted core construction
- Bolt-on mounting brackets
- Vacuum Impregnated with Polyester Resin and oven cured
- Seismically qualified according to International Building Code (IBC) 2018, and the American Society of Civil Engineers ASCE 7-10 specifications, with the following design parameters:
  - Spectral acceleration: $S_{5%} = 2.0g$
  - Importance factor: $I_p = 1.5$
  - Attachment/height ratio: $z/h = 1.0''$
  - O.S.H.P.D California Certified

APPROVALS
- Meets NEMA standards
- CSA Certified
- UL Listed
- CE Marked

SUPERIOR INSULATING MATERIALS
- Superior insulating materials. The HPS Spartan series transformer offers the following insulation systems:
  - 130°C (80°C rise) up to 1500 VA
  - 180°C (115°C rise) 2000 VA to 5000 VA
- All units supplied with primary and secondary voltage links/jumpers
- Optional finger guards available
- Optional fuse block adapter kit available
- Supplied with trilingual installation and wiring instruction sheets
- “Premium Packaging”1 featuring:
  - Premium fluted cartons
  - Custom molded foam inserts
  - Easy removal and repacking
  - Industry’s best box label
- 15 year warranty
- 1 up to and including 3000VA or 30 amps

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1 up to and including 3000VA or 30 amps
### GROUP A

**Primary Voltage:** 600/480 120 x 240  
**Secondary Voltage:** 575/460 115 x 230  
**550/440 110 x 220**

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<thead>
<tr>
<th>VA Rating</th>
<th>CE VA Rating</th>
<th>Catalog Number</th>
<th>Mtg. Fig.</th>
<th>Output Amps</th>
<th>Overall Dimensions</th>
<th>Mounting Centers</th>
<th>Mounting Slot</th>
<th>Height with Finger Guard</th>
<th>Height with Fuse Block Adapter</th>
<th>Approx. Ship Weight Lbs.</th>
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Primary and Secondary voltage links/jumpers supplied standard with all transformers.  
Special voltages and VA sizes available upon request.  
All dimensions in inches  
Note: For 750 through 2000 VA units actual overall depth is 0.24" plus the value in column B.  
* See page 10 for dimensional drawings.

### GROUP B

**Primary Voltage:** 600 12 x 24  
**Secondary Voltage:** 575 11.5 x 23  
**550 11 x 22**

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<tr>
<th>VA Rating</th>
<th>CE VA Rating</th>
<th>Catalog Number</th>
<th>Mtg. Fig.</th>
<th>Output Amps</th>
<th>Overall Dimensions</th>
<th>Mounting Centers</th>
<th>Mounting Slot</th>
<th>Height with Finger Guard</th>
<th>Height with Fuse Block Adapter</th>
<th>Approx. Ship Weight Lbs.</th>
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<td>2.85</td>
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<td>3.04</td>
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<td>4.16</td>
<td>3.97</td>
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</table>

Primary and Secondary voltage links/jumpers supplied standard with all transformers.  
Special voltages and VA sizes available upon request.  
All dimensions in inches  
* See page 10 for dimensional drawings.
GROUP C

Primary Voltage: 240 x 480
Secondary Voltage: 120 x 240

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<th>VA Rating</th>
<th>CE VA Rating</th>
<th>Catalog Number</th>
<th>Mtg. Fig.</th>
<th>Output Amps</th>
<th>Overall Dimensions</th>
<th>Mounting Centers</th>
<th>Mounting Slot</th>
<th>Height with Finger Guard</th>
<th>Height with Fuse Block Adapter</th>
<th>Approx. Ship Weight Lbs.</th>
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<td>SP100MQMJ</td>
<td>A</td>
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<td>2.99</td>
<td>3.74</td>
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<td>2.52</td>
<td>2.60</td>
<td>0.22 x 0.44</td>
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<td>150</td>
<td>SP150MQMJ</td>
<td>A</td>
<td>1.25/0.63</td>
<td>2.99</td>
<td>4.29</td>
<td>2.85</td>
<td>2.52</td>
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<td>A</td>
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<td>A</td>
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<td>4.37</td>
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</table>

Primary and Secondary voltage links/jumpers supplied standard with all transformers. All dimensions in inches

Note: For 750 through 2000 VA units actual overall depth is 0.24” plus the value in column B.

See page 10 for dimensional drawings.

GROUP D

Primary Voltage: 240 x 480
Secondary Voltage: 12 x 24

<table>
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<tr>
<th>VA Rating</th>
<th>CE VA Rating</th>
<th>Catalog Number</th>
<th>Mtg. Fig.</th>
<th>Output Amps</th>
<th>Overall Dimensions</th>
<th>Mounting Centers</th>
<th>Mounting Slot</th>
<th>Height with Finger Guard</th>
<th>Height with Fuse Block Adapter</th>
<th>Approx. Ship Weight Lbs.</th>
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Primary and Secondary voltage links/jumpers supplied standard with all transformers. All dimensions in inches

Special voltages and VA sizes available upon request.

See page 10 for dimensional drawings.
# HPS Spartan Industrial Open Core & Coil Control Transformer

## GROUP E

**Primary Voltage:** 380/347  
**Secondary Voltage:** 120 x 240  

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<tr>
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<th>CE VA Rating</th>
<th>Catalog Number</th>
<th>Mtg. Fig.</th>
<th>Output Amps</th>
<th>Overall Dimensions</th>
<th>Mounting Centers</th>
<th>Mounting Slot</th>
<th>Height with Finger Guard</th>
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<td>3.15</td>
<td>0.22 x 0.44</td>
</tr>
<tr>
<td>250</td>
<td>160</td>
<td>SP250KHP</td>
<td>A</td>
<td>2.08/1.04</td>
<td>3.78</td>
<td>4.09</td>
<td>3.40</td>
<td>3.31</td>
<td>2.99</td>
<td>0.22 x 0.44</td>
</tr>
<tr>
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<td>250</td>
<td>SP350KHP</td>
<td>A</td>
<td>2.92/1.46</td>
<td>3.78</td>
<td>4.69</td>
<td>3.40</td>
<td>3.31</td>
<td>3.58</td>
<td>0.22 x 0.44</td>
</tr>
<tr>
<td>500</td>
<td>300</td>
<td>SP500KHP</td>
<td>A</td>
<td>4.17/2.08</td>
<td>4.49</td>
<td>4.69</td>
<td>3.78</td>
<td>3.78</td>
<td>3.66</td>
<td>0.31 x 0.81</td>
</tr>
<tr>
<td>750</td>
<td>500</td>
<td>SP750KHP</td>
<td>A</td>
<td>6.25/3.13</td>
<td>5.25</td>
<td>4.69</td>
<td>3.40</td>
<td>4.50</td>
<td>3.66</td>
<td>0.31 x 0.81</td>
</tr>
<tr>
<td>1000</td>
<td>650</td>
<td>SP1000KHP</td>
<td>A</td>
<td>8.33/4.17</td>
<td>5.25</td>
<td>5.47</td>
<td>3.40</td>
<td>4.50</td>
<td>4.45</td>
<td>0.31 x 0.81</td>
</tr>
<tr>
<td>1500</td>
<td>1000</td>
<td>SP1500KHP</td>
<td>A</td>
<td>12.5/6.25</td>
<td>6.38</td>
<td>4.88</td>
<td>5.31</td>
<td>5.75</td>
<td>3.86</td>
<td>0.31 x 0.81</td>
</tr>
</tbody>
</table>

Primary and Secondary voltage links/jumpers supplied standard with all transformers.  
Special voltages and VA sizes available upon request.  
1 Note: For 750 through 1500 VA units actual overall depth is 0.24” plus the value in column B.  
* See page 10 for dimensional drawings.

## GROUP F

**Primary Voltage:** 380/347  
**Secondary Voltage:** 12 x 24  

<table>
<thead>
<tr>
<th>VA Rating</th>
<th>CE VA Rating</th>
<th>Catalog Number</th>
<th>Mtg. Fig.</th>
<th>Output Amps</th>
<th>Overall Dimensions</th>
<th>Mounting Centers</th>
<th>Mounting Slot</th>
<th>Height with Finger Guard</th>
<th>Height with Fuse Block Adapter</th>
<th>Approx. Ship Weight Lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>50</td>
<td>SP50KHR</td>
<td>A</td>
<td>4.17/2.08</td>
<td>2.60</td>
<td>3.35</td>
<td>2.60</td>
<td>2.13</td>
<td>2.17</td>
<td>0.22 x 0.44</td>
</tr>
<tr>
<td>100</td>
<td>100</td>
<td>SP100KHR</td>
<td>A</td>
<td>8.33/4.17</td>
<td>2.99</td>
<td>3.74</td>
<td>2.85</td>
<td>2.52</td>
<td>2.60</td>
<td>0.22 x 0.44</td>
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<td>150</td>
<td>SP150KHR</td>
<td>A</td>
<td>12.5/6.25</td>
<td>2.99</td>
<td>4.29</td>
<td>2.85</td>
<td>2.52</td>
<td>3.15</td>
<td>0.22 x 0.44</td>
</tr>
<tr>
<td>250</td>
<td>160</td>
<td>SP250KHR</td>
<td>A</td>
<td>20.8/10.4</td>
<td>3.78</td>
<td>4.09</td>
<td>3.40</td>
<td>3.31</td>
<td>2.99</td>
<td>0.22 x 0.44</td>
</tr>
<tr>
<td>350</td>
<td>250</td>
<td>SP350KHR</td>
<td>A</td>
<td>29.2/14.6</td>
<td>3.78</td>
<td>4.69</td>
<td>3.40</td>
<td>3.31</td>
<td>3.58</td>
<td>0.22 x 0.44</td>
</tr>
<tr>
<td>500</td>
<td>300</td>
<td>SP500KHR</td>
<td>B</td>
<td>41.7/20.8</td>
<td>4.49</td>
<td>5.47</td>
<td>3.78</td>
<td>3.78</td>
<td>3.66</td>
<td>0.31 x 0.81</td>
</tr>
</tbody>
</table>

Primary and Secondary voltage links/jumpers supplied standard with all transformers.  
Special voltages and VA sizes available upon request.  
* See page 10 for dimensional drawings.
### GROUP G

**Primary Voltage:** 277  
**Secondary Voltage:** 120

<table>
<thead>
<tr>
<th>VA Rating</th>
<th>CE VA Rating</th>
<th>Catalog Number</th>
<th>Mtg. Fig.</th>
<th>Output Amps</th>
<th>Overall Dimensions</th>
<th>Mounting Centers</th>
<th>Mounting Slot</th>
<th>Height with Finger Guard</th>
<th>Height with Fuse Block Adapter</th>
<th>Approx. Ship Weight Lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>50</td>
<td>SP50NJ</td>
<td>A</td>
<td>0.42</td>
<td>2.60 3.35 2.60</td>
<td>2.13 2.17</td>
<td>0.22 x 0.44</td>
<td>2.98</td>
<td>2.79</td>
<td>1.6</td>
</tr>
<tr>
<td>100</td>
<td>100</td>
<td>SP100NJ</td>
<td>A</td>
<td>0.83</td>
<td>2.99 3.54 2.85</td>
<td>2.52 2.40</td>
<td>0.22 x 0.44</td>
<td>3.23</td>
<td>3.04</td>
<td>3.2</td>
</tr>
<tr>
<td>150</td>
<td>150</td>
<td>SP150NJ</td>
<td>A</td>
<td>1.25</td>
<td>2.99 4.29 2.85</td>
<td>2.52 3.15</td>
<td>0.22 x 0.44</td>
<td>3.23</td>
<td>3.04</td>
<td>4.3</td>
</tr>
<tr>
<td>250</td>
<td>250</td>
<td>SP250NJ</td>
<td>A</td>
<td>2.08</td>
<td>3.78 4.09 3.40</td>
<td>3.31 2.99</td>
<td>0.22 x 0.44</td>
<td>3.78</td>
<td>3.59</td>
<td>6.4</td>
</tr>
<tr>
<td>350</td>
<td>350</td>
<td>SP350NJ</td>
<td>A</td>
<td>2.92</td>
<td>3.78 4.69 3.40</td>
<td>3.31 3.58</td>
<td>0.22 x 0.44</td>
<td>3.78</td>
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<td>8.1</td>
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<tr>
<td>500</td>
<td>500</td>
<td>SP500NJ</td>
<td>A</td>
<td>4.17</td>
<td>4.49 4.69 3.78</td>
<td>3.78 3.66</td>
<td>0.31 x 0.81</td>
<td>4.16</td>
<td>3.97</td>
<td>11</td>
</tr>
<tr>
<td>750</td>
<td>750</td>
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<td>A</td>
<td>6.25</td>
<td>5.25 5.08 4.37</td>
<td>4.50 4.06</td>
<td>0.31 x 0.81</td>
<td>4.75</td>
<td>4.56</td>
<td>18</td>
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<tr>
<td>1000</td>
<td>1000</td>
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<td>A</td>
<td>8.33</td>
<td>5.25 5.47 4.37</td>
<td>4.50 4.45</td>
<td>0.31 x 0.81</td>
<td>4.75</td>
<td>4.56</td>
<td>20</td>
</tr>
<tr>
<td>1500</td>
<td>1500</td>
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<td>A</td>
<td>12.50</td>
<td>5.25 6.85 4.37</td>
<td>4.50 5.83</td>
<td>0.31 x 0.81</td>
<td>4.75</td>
<td>4.56</td>
<td>29</td>
</tr>
</tbody>
</table>

Primary and Secondary voltage links/jumpers supplied standard with all transformers.  
Special voltages and VA sizes available upon request.  
*Note: For 750 through 1500 VA units actual overall depth is 0.24” plus the value in column B.  
*See page 10 for dimensional drawings.

### GROUP H

**Primary Voltage:** 120 x 240  
**Secondary Voltage:** 115 x 230, 110 x 220

<table>
<thead>
<tr>
<th>VA Rating</th>
<th>CE VA Rating</th>
<th>Catalog Number</th>
<th>Mtg. Fig.</th>
<th>Output Amps</th>
<th>Overall Dimensions</th>
<th>Mounting Centers</th>
<th>Mounting Slot</th>
<th>Height with Finger Guard</th>
<th>Height with Fuse Block Adapter</th>
<th>Approx. Ship Weight Lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>50</td>
<td>SP50PR</td>
<td>A</td>
<td>4.17/2.08</td>
<td>2.60 3.35 2.60</td>
<td>2.13 2.17</td>
<td>0.22 x 0.44</td>
<td>2.98</td>
<td>2.79</td>
<td>1.7</td>
</tr>
<tr>
<td>100</td>
<td>100</td>
<td>SP100PR</td>
<td>A</td>
<td>8.33/4.17</td>
<td>2.99 3.74 2.85</td>
<td>2.52 2.60</td>
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<td>150</td>
<td>SP150PR</td>
<td>A</td>
<td>12.5/6.25</td>
<td>2.99 4.29 2.85</td>
<td>2.52 3.15</td>
<td>0.22 x 0.44</td>
<td>3.23</td>
<td>3.04</td>
<td>4.3</td>
</tr>
<tr>
<td>250</td>
<td>250</td>
<td>SP250PR</td>
<td>A</td>
<td>20.8/10.4</td>
<td>3.78 3.90 3.40</td>
<td>3.31 2.80</td>
<td>0.22 x 0.44</td>
<td>3.78</td>
<td>3.59</td>
<td>5.9</td>
</tr>
<tr>
<td>350</td>
<td>350</td>
<td>SP350PR</td>
<td>A</td>
<td>29.2/14.6</td>
<td>3.78 4.69 3.40</td>
<td>3.31 3.58</td>
<td>0.22 x 0.44</td>
<td>3.78</td>
<td>3.59</td>
<td>8.2</td>
</tr>
<tr>
<td>500</td>
<td>500</td>
<td>SP500PR</td>
<td>B</td>
<td>41.7/20.8</td>
<td>4.49 5.47 3.78</td>
<td>3.78 3.66</td>
<td>0.31 x 0.81</td>
<td>4.16</td>
<td>3.97</td>
<td>11</td>
</tr>
</tbody>
</table>

Primary and Secondary voltage links/jumpers supplied standard with all transformers.  
Special voltages and VA sizes available upon request.  
*See page 10 for dimensional drawings.
## GROUP I

**Primary Voltage:** 208 x 416  
**Secondary Voltage:** 120 x 240  
**50/60 Hertz**

<table>
<thead>
<tr>
<th>VA Rating</th>
<th>CE VA Rating</th>
<th>Catalog Number</th>
<th>Mtg. Fig.</th>
<th>Output Amps</th>
<th>Overall Dimensions</th>
<th>Mounting Centers</th>
<th>Mounting Slot</th>
<th>Height with Finger Guard</th>
<th>Height with Fuse Block Adapter</th>
<th>Approx. Ship Weight Lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>50</td>
<td>SP50SP</td>
<td>A</td>
<td>0.42/0.21</td>
<td>2.60 3.35 2.60</td>
<td>2.13 2.17</td>
<td>0.22 x 0.44</td>
<td>2.98</td>
<td>2.60</td>
<td>1.6</td>
</tr>
<tr>
<td>100</td>
<td>100</td>
<td>SP100SP</td>
<td>A</td>
<td>0.83/0.42</td>
<td>2.99 3.54 2.85</td>
<td>2.52 2.40</td>
<td>0.22 x 0.44</td>
<td>3.23</td>
<td>2.85</td>
<td>3</td>
</tr>
<tr>
<td>150</td>
<td>150</td>
<td>SP150SP</td>
<td>A</td>
<td>1.25/0.63</td>
<td>2.99 4.29 2.85</td>
<td>2.52 3.15</td>
<td>0.22 x 0.44</td>
<td>3.23</td>
<td>2.85</td>
<td>4.3</td>
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<tr>
<td>250</td>
<td>160</td>
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<td>A</td>
<td>2.08/1.04</td>
<td>3.78 4.09 3.40</td>
<td>3.31 2.99</td>
<td>0.22 x 0.44</td>
<td>3.78</td>
<td>3.40</td>
<td>6.5</td>
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<tr>
<td>350</td>
<td>250</td>
<td>SP350SP</td>
<td>A</td>
<td>2.92/1.46</td>
<td>3.78 4.69 3.40</td>
<td>3.31 3.58</td>
<td>0.22 x 0.44</td>
<td>3.78</td>
<td>3.40</td>
<td>8.3</td>
</tr>
<tr>
<td>500</td>
<td>300</td>
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<td>A</td>
<td>4.17/2.08</td>
<td>4.49 4.69 3.78</td>
<td>3.78 3.66</td>
<td>0.31 x 0.81</td>
<td>4.16</td>
<td>3.78</td>
<td>11</td>
</tr>
<tr>
<td>750</td>
<td>500</td>
<td>SP750SP</td>
<td>A</td>
<td>6.25/3.13</td>
<td>5.25 4.69 4.37</td>
<td>4.50 3.66</td>
<td>0.31 x 0.81</td>
<td>4.75</td>
<td>4.75</td>
<td>16</td>
</tr>
<tr>
<td>1000</td>
<td>650</td>
<td>SP1000SP</td>
<td>A</td>
<td>8.33/4.17</td>
<td>5.25 5.47 4.37</td>
<td>4.50 4.45</td>
<td>0.31 x 0.81</td>
<td>4.75</td>
<td>4.75</td>
<td>20</td>
</tr>
<tr>
<td>1500</td>
<td>1000</td>
<td>SP1500SP</td>
<td>A</td>
<td>12.5/6.25</td>
<td>6.38 4.88 5.31</td>
<td>5.75 3.86</td>
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<td>5.69</td>
<td>27</td>
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</tbody>
</table>

Primary and Secondary voltage links/jumpers supplied standard with all transformers.  
Special voltages and VA sizes available upon request.  
*Note: For 750 through 1500 VA units actual overall depth is 0.24" plus the value in column B.  
*See page 10 for dimensional drawings.

## GROUP J

**Primary Voltage:** 208 x 416  
**Secondary Voltage:** 12 x 24  
**50/60 Hertz**

<table>
<thead>
<tr>
<th>VA Rating</th>
<th>CE VA Rating</th>
<th>Catalog Number</th>
<th>Mtg. Fig.</th>
<th>Output Amps</th>
<th>Overall Dimensions</th>
<th>Mounting Centers</th>
<th>Mounting Slot</th>
<th>Height with Finger Guard</th>
<th>Height with Fuse Block Adapter</th>
<th>Approx. Ship Weight Lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>50</td>
<td>SP50SR</td>
<td>A</td>
<td>4.17/2.08</td>
<td>2.60 3.35 2.60</td>
<td>2.13 2.17</td>
<td>0.22 x 0.44</td>
<td>2.98</td>
<td>2.79</td>
<td>1.6</td>
</tr>
<tr>
<td>100</td>
<td>100</td>
<td>SP100SR</td>
<td>A</td>
<td>8.33/4.17</td>
<td>2.99 3.54 2.85</td>
<td>2.52 2.40</td>
<td>0.22 x 0.44</td>
<td>3.23</td>
<td>3.04</td>
<td>3.1</td>
</tr>
<tr>
<td>150</td>
<td>150</td>
<td>SP150SR</td>
<td>A</td>
<td>12.5/6.25</td>
<td>2.99 4.29 2.85</td>
<td>2.52 3.15</td>
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<td>3.23</td>
<td>3.04</td>
<td>4.3</td>
</tr>
<tr>
<td>250</td>
<td>160</td>
<td>SP250SR</td>
<td>A</td>
<td>20.8/10.4</td>
<td>3.78 4.09 3.40</td>
<td>3.31 2.99</td>
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<td>6.5</td>
</tr>
<tr>
<td>350</td>
<td>250</td>
<td>SP350SR</td>
<td>A</td>
<td>29.2/14.6</td>
<td>3.78 4.69 3.40</td>
<td>3.31 3.58</td>
<td>0.22 x 0.44</td>
<td>3.78</td>
<td>3.59</td>
<td>8.3</td>
</tr>
<tr>
<td>500</td>
<td>300</td>
<td>SP500SR</td>
<td>B</td>
<td>41.7/20.8</td>
<td>4.49 5.47 3.78</td>
<td>3.78 3.66</td>
<td>0.31 x 0.81</td>
<td>4.16</td>
<td>3.97</td>
<td>11</td>
</tr>
</tbody>
</table>

Primary and Secondary voltage links/jumpers supplied standard with all transformers.  
Special voltages and VA sizes available upon request.  
*See page 10 for dimensional drawings.
OPTIONAL ACCESSORIES

Finger Guards
HPS Spartan industrial control transformers up to and including 3000VA or 30 amps are available with optional finger guards.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Applicable Transformer Part Number Suffix’s</th>
<th>Applicable VA Sizes</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPF1</td>
<td>AR, QR, PR, KHR, SR</td>
<td>50 to 350</td>
</tr>
<tr>
<td>SPF1</td>
<td>KHP, SP, NJ</td>
<td>50 to 1500</td>
</tr>
<tr>
<td>SPF1</td>
<td>ACP, MQMJ</td>
<td>50 to 3000</td>
</tr>
</tbody>
</table>

Note: Each finger guard supplies either the primary or secondary side. Finger guard option not available on SPF5000ACP and SPF5000MQMJ standard units. Add 0.38” per finger guard to overall depth (column B) on units from 50 VA to 500 VA and 0.31” to units from 750 VA to 3000 VA when finger guard has been installed. For custom units, optional finger guards are only available on units up to 3000VA or 30 amps.

Fuse Block Adapter Kit
HPS Spartan industrial control transformers up to and including 3000VA or 30 amps are available with optional fuse block adapter kits. The Fuse Block Adapter Kit is designed to allow for the installation of any third party after market fuse block assembly onto the industrial control transformer. The transformer must be a unit that incorporates a molded terminal block on either the primary or secondary side.

Note: HPS does not provide any jumpers or appropriate fuses for any after market fuse block you install on the HPS Spartan industrial control transformer. The HPS Fuse Block Adapter Kit provides only the mechanical means of attaching a third party after market fuse block. HPS does not recommend any specific fuse block or fuse supplier. For a recommended size of fuse please refer to the HPS Transformer Products catalog.

<table>
<thead>
<tr>
<th>Kit Part Number</th>
<th>Applicable Transformer Part Number Suffixes</th>
<th>Applicable VA Sizes</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPFBAK1</td>
<td>AR, QR, PR, KHR, SR</td>
<td>50 to 500</td>
</tr>
<tr>
<td>SPFBAK1</td>
<td>KHP, SP, NJ</td>
<td>50 to 1500</td>
</tr>
<tr>
<td>SPFBAK1</td>
<td>ACP, MQMJ</td>
<td>50 to 3000</td>
</tr>
</tbody>
</table>

Note: Only 1 fuse block adapter kit is required per transformer. Fuse block adapter kit not available on SPF5000ACP and SPF5000MQMJ standard units. Add 0.38” per fuse block adapter to overall depth (column B) on units from 750 VA to 3000 VA when optional fuse block adapter is installed. For custom units, optional fuse block adapter kit is only available on units up to 3000VA or 30 amps.

For detailed installation instructions of HPS Spartan transformers or the optional finger guards and fuse block adapter kits, please visit our website.
DIMENSIONAL DRAWINGS
Some actual transformer units may differ from dimensional drawings shown below.

FIGURE A

FIGURE B

FIGURE C
CUSTOM CONTROL CAPABILITIES

HPS is one of the industry’s most technically capable manufacturers producing the broadest and most competitive range of custom dry-type transformers and related magnetic products in North America. Our designs are cost effective and our transformers are built with modern manufacturing techniques. We emphasize our Value Added Engineering whereby our design staff will interface with your team to produce the optimum transformer. Our 3-D modelling design and CAD facilities permits quick and effective communication when time is vital.

HPS can provide custom control transformers to fit your design style requirements for most standard or specialty applications. From custom medium voltage to potted control, HPS has the engineering and manufacturing resources to deliver your custom control transformer how you want it and when you need it. Contact your HPS sales representative or the HPS sales department directly at: sales@hammondpowersolutions.com