



Hammond Power Solutions Inc.

HPS IMPERATOR[®] Industrial Control Transformers c/w Factory Installed Fuse Kits Installation Instructions

Patent Pending

Literature Code: PHFK1

Thank you for purchasing your **HPS IMPERATOR[®]** industrial control transformer. This **HPS IMPERATOR[®]** machine tool rated industrial control transformer is supplied with factory installed primary and secondary fuse kits. This instruction sheet provides important information on the installation of this transformer, so please take the time to read before attempting to install this control transformer.

If you have any questions regarding the HPS Imperator series of industrial control transformers or are having any difficulty with your installation, 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.

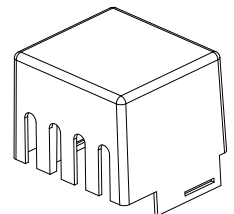
Important Installation Notes:

- 1) **ALL FACTORY INSTALLED FUSE KITS ARE PRE-WIRED AT THE TRANSFORMERS HIGHEST PRIMARY VOLTAGE AND THE LOWEST SECONDARY VOLTAGE.** To hook-up at a different primary or secondary voltage, please refer to the PHWD1 wiring instruction sheet included with the transformer.
- 2) Torque all terminal screws between 12 to 14 inch-lbs.
- 3) For all bare wire connections, the recommended wire size range is: 18 AWG to 14 AWG for solid wire and 14 AWG for stranded.
- 4) A ring or spade connector must be used if using a wire size outside the range listed above.
- 5) Ensure mounting screws used for installation (screws not supplied), are properly sized for transformer weight and mounting application.
- 6) For connection details, please refer to wiring instructions supplied with your **HPS IMPERATOR[™]** machine tool industrial control transformer.
- 7) Primary and secondary fuse kits are currently not suitable for branch circuit applications!

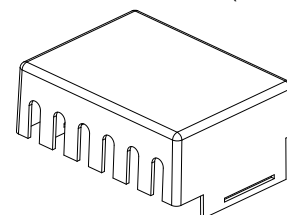
If finger safe applications are required, HPS also has available optional finger guard kits. These kits (see example drawing below) are ordered separately. Please see the tables below for the correct finger guard part number. You will require one finger guard for each primary or secondary side you wish to protect (2 per transformer).

Optional Fused Finger Guard Kits

<u>Kit P/N</u>	<u>Applicable P/N Suffix's</u>	<u>Applicable VA Size</u>
FGF1	AJ, AR, MQMJ, MEMX, QR, SP, PG, PP	50
FGF2	MBMH, MGJ, MLI	50
FGF2	All	75
FGF2	All (excluding PH100MBMH)	100
FG3	MBMH	100
FG3	All	150
FG3	AJ, AR, MQMJ, MEMX, QR, SP, PG, PP	250
FG4	MBMH, MGJ, MLI	250
FG4	All	350, 500
FG4	AJ, AR, MQMJ, QR, SP, PP	750
FG5	MBMH, MEMX, MGJ, MLI, PG	750
FG5	All	1000, 1500
N/A	All	2000 to 5000



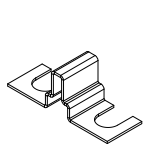
Finger Guard
(for 50, 75 and 100VA)



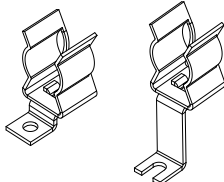
Finger Guard
(for 150VA to 1500VA)

Note: Maximum allowable current rating on all primary or secondary fuse kits is 30 Amps.

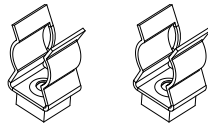
Accessory Sample Identifier Drawings



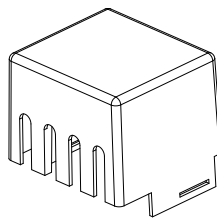
Voltage Link



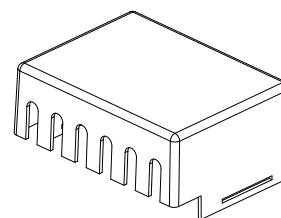
Fuse Clips
(for 50, 75 and 100VA)



Fuse Clips
(for 150VA to 1500VA)

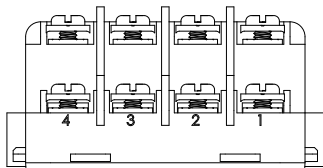
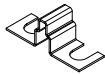


Finger Guard
(for 50, 75 and 100VA)



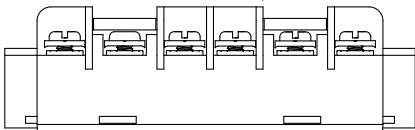
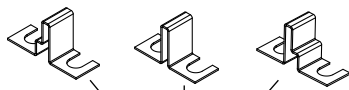
Finger Guard
(for 150VA to 1500VA)

Sample Assembly Drawings for Voltage Link Installation



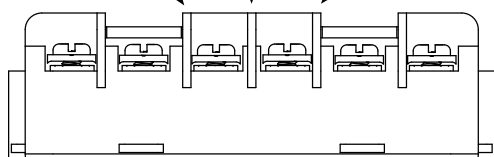
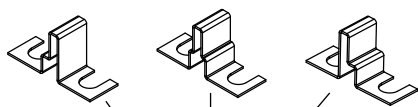
For units from 50VA to 100VA, the voltage links supplied can be installed between any two primary or secondary terminal bays. Please refer to PHWD1 instruction sheet included with your transformer for connection for details.

Style A (left) Style B (center) Style A (right)



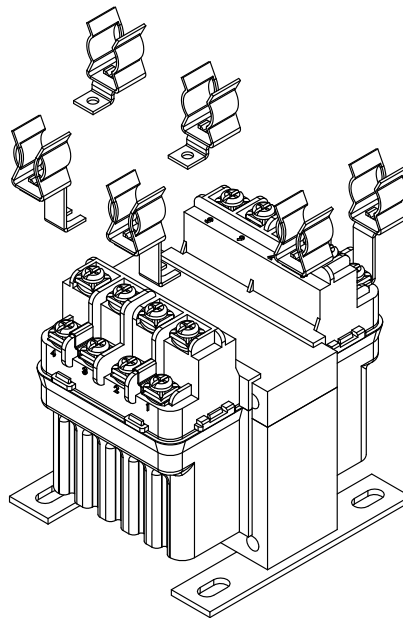
For units from 150VA to 250VA, the voltage links supplied must be installed between the primary or secondary terminal bays as indicated above. Please refer to PHWD1 instruction sheet included with you transformer for connection details.

Style A (left) Style B (center) Style A (right)

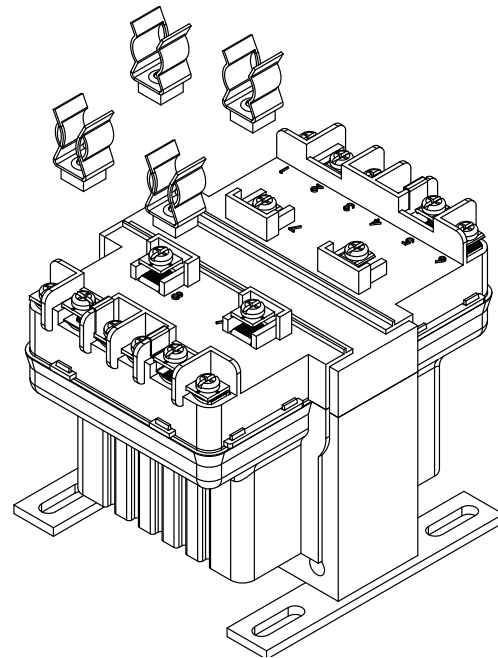


For units from 350VA to 1500VA, the voltage links supplied must be installed between the primary or secondary terminal bays as indicated above. Please refer to PHWD1 instruction sheet included with you transformer for connection details.

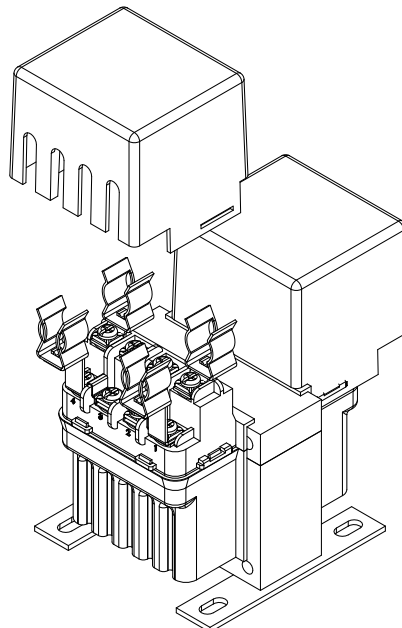
Sample Assembly Drawing for Fuse Clip Installation (for 50, 75 and 100VA)



Sample Assembly Drawing for Fuse Clip Installation (for 150VA to 1500VA)



Sample Assembly Drawing for Finger Guard Installation (for 50, 75 and 100VA)



Sample Assembly Drawing for Finger Guard Installation (for 150VA to 1500VA)

