HPS Tribune™ E

Energy Efficient Drive Isolation Transformers

power to conserve

Compliant to NRCan 2019 Efficiency Standards

power to perform

Hammond Power Solutions

HPS Tribune™

Energy Efficient Drive Isolation Transformers

TABLE OF CONTENTS

HPS NRCan Compliant Products	3
Features & Benefits	4
Specifications & Accessories	5
Part Number Guide	6
Support & Resources	6
Selection Tables - HPS Tribune E	7
Typical Impedance & Inrush Current Rating	14
Enclosure Dimensional Drawings	15
Enclosure Mounting Kits	17
Enclosure Wall & Ceiling Mounting Dimensions	18
Anti-Vibration Pads & Vibration Isolator Kits	19
Enclosure Spare Parts	20
Electrical Schematics & Connection Drawings	21

This catalog contains product information for NRCan 2019 compliant energy efficient drive isolation transformers.

HPS Drive Isolation Transformers are designed to meet the rugged demands of both AC and DC variable speed drives and also to provide the required voltage change. HPS offers three lines of drive isolation transformers compliant to different levels of efficiency.

New Energy Efficiency Levels

The new energy efficiency levels for drive isolation transformers:

Three Phase	
kVA	Efficiency (%)
20	98.00%
27	98.16%
34	98.28%
40	98.34%
51	98.44%
63	98.52%
75	98.60%
93	98.67%
118	98.75%
145	98.82%
175	98.87%
220	98.93%
275	98.99%
330	99.04%
440	99.10%
550	99.16%
660	99.20%

Note: All efficiency values are at 35% of nominal load.

NRCan 2019 Compliant HPS Drive Isolation Transformers

The NRCan 2019 product lines have been redesigned based on extensive customer input using industry leading technologies and materials to meet your most demanding applications.

High Efficiency Drive Isolation Transformer - HPS Tribune E: HPS new line of drive isolation NRCan 2019 compliant efficient drive isolation transformers

HPS offers additional two lines of Drive Isolation Transformers:

Energy Efficient (TP1/C802.2) Drive Isolation Transformer - HPS Tribune

Standard Non-Energy Efficient Drive Isolation Transformer - HPS DM Series

power to conserve

BENEFITS

- HPS Tribune E product lines meet the latest energy efficiency standards outlined by NRCan offering significant energy savings to our customers and positive societal/environmental benefits.
- Standard Type 3R enclosure suitable for indoor or outdoor applications.
- For our customers, higher efficiency translates into:
  - Increased profitability due to lower operating costs
  - Decreased cost of ownership over the lifetime of the transformer
  - Less air conditioning cost due to lower heat emissions
- Standard 10kV BIL rating provides increased reliability and protection against critical equipment failure (including voltage spikes and other line transients).
- Standard integral floor and wall mounting brackets up to 45kVA allow for faster installation.
- All units utilize a uniform 220°C insulation system with a 80°C, 115°C, or 150°C temperature rise.
- Industry leading design solutions, technology and materials continue the legacy of quality and reliability in all HPS products.

FEATURES

Core & Coil Construction:

- Manufactured from quality non-aging, cold rolled, silicon steel laminations using state-of-the-art equipment
- Cores are precision cut to close tolerances which eliminates burrs and improves performance
- Core is coated to prevent the ingress of moisture
- Precision wound with copper or aluminum conductors that are electrically balanced to minimize axial forces during short-circuit conditions
- Robust interface between core & coils for better short circuit performance

Conductor material: Copper or Aluminum
Temperature rise: 150°C typical (low rise options avail.)
Insulation system: 220°C

Standard type 3R enclosure on all HPS drive isolation transformers

Integrated wall mounting brackets for added convenience at no extra cost

Expanded neutral bar for multiple customer connections

Data subject to change without notice.

HPS Tribune™ E

Energy Efficient Drive Isolation Transformers

Installation made fast & easy!

Tired of spending extra money on labor and material to install optional transformer features? Purchasing an HPS Tribune E will save you all these additional costs. HPS Tribune E has these optional features pre-installed as part of our standard product line.

Testing

All HPS transformers are tested at HPS prior to shipment. They must meet very stringent quality criteria prior to release.

Factory installed main grounding lugs

Bottom cable entry area where applicable

Offset outward facing floor installation holes for easy power tool access

Data subject to change without notice.

Specifications & Accessories - Copper or Aluminum

20 to 51 kVA

63 to 175 kVA

220 to 660 kVA

STANDARD SPECIFICATIONS

kVA:	15-660kVA
UL Listed:	File: E112313
CSA Certified:	File: LR3902
Frequency:	60 Hz (optional 50/60 Hz available)
Insulation System:	220°C (150°C rise) (optional 115°C & 80°C rise available)
BIL Rating:	10 kV (on all 3PH low voltage products)
K-Rating:	kVA sizing allows motor efficiency and 6 Pulse Drive Harmonics (K=13).
Enclosure Type:	Heavy duty ventilated Type 3R standard (optional Type 4, 4X (stainless steel) & 12)
Enclosure Finish:	ANSI 61 Grey, UL50
Neutral:	Neutral terminal for field connection (on applicable units)
Standard Primary Taps:	Refer to wiring diagrams for details
Termination:	Front accessible separate high and low voltage terminals; connectors suitable for aluminum and copper are provided for easy cable installation.

Conduit Entry:	Side knock-outs standard on all units; Bottom entry provision (exceptions apply)
Impedance:	Typically 1.8% to 7.5%
Mounting:	Floor or wall/ceiling mounting available. Refer to selection tables for details.
Seismic:	Seismically qualified according to the International Building Code (IBC) 2018, and the American Society of Civil Engineers ASCE 7-16 specifications, with the following design parameters: Spectral acceleration: $S_{DS} \leq 2.0$ g Importance factor: $I_p = 1.5$ Attachment/Height ratio: z/h = 1.0 (up to and including DH4 enclosure). Attachment/Height ratio: z/h =0 (for all other enclosures). O.S.H.P.D (optional). Please contact HPS for more information on seismic compliances.
Sound Level:	Meets NEMA ST-20 standards (optional low noise units available)
Thermostat:	Standard on all units (200°C N.C thermostats on each coil)
Electrostatic Shield:	Standard on all units
Warranty:	10 years

Optional Accessories:

- Thermal indication (RTD)
- Thermometers (analog/digital)
- Strip heater (space heater to prevent condensation)
- Surge protection devices
- Type 3R or 4X available in stainless steel
- Type 3R enhanced with baffling for horizontal blowing rain and snow

Data subject to change without notice.

HPS Tribune™ E

Energy Efficient Drive Isolation Transformers

HPS Tribune Part Number Guide

	Family	Appl. Type	Generation	Phase	kVA				Pri. Volt.	Sec. Volt.	Winding Material/ Electrostatic Shield	Temp. Rise & Insul. Class	Enclosure	Sound Level	Special Duty
Example	T	E	3	A	0	0	4	5	B	C	U	H	C	0	

Family:
T - Tribune

Type:
E - High Efficiency (NRCan)

Generation:
3 - 2018 NRCan Efficiency

Phase (Pri-Sec)[1]:
A - 3PH - Delta-Wye-N

kVA:
kVA Rating 7.5 - 660kVA*
Available up to 990kVA

7.5kVA[1]	0007
11kVA[1]	0011
14kVA[1]	0014
20kVA	0020
27kVA	0027
34kVA	0034
40kVA	0040
51kVA	0051
63kVA	0063
75kVA	0075
93kVA	0093
118kVA	0118
145kVA	0145
175kVA	0175
220kVA	0220
275kVA	0275
330kVA	0330
440kVA	0440
550kVA	0550
660kVA	0660
770kVA	0770
880kVA	0880
990kVA	0990

Primary Voltage:
3PH

B	208D
C	230D
D	240D
G	380D
H	400D
J	460D*
K	480D*
N	575D*
P	600D

Secondary Voltage:
3PH

B	208Y/120
C	230Y/133*
D	240Y/139
G	380Y/220*
H	400Y/231
J	460Y/266*
K	480Y/277*
N	575Y/332*
P	600Y/347

Winding Material/Electrostatic Shield/ Thermostat:
U - AL + Shield + Thermostat* (default)
M - CU + Shield + Thermostat

Temperature Rise (220°C Insulation Class standard for all drive isolation offers):
B - 80°C
F - 115°C
G - 130°C
H - 150°C* (default)

Enclosure:
A - Type 1
B - Type 2
C - Type 3R* (default)
D - Type 3RE
E - Type 3RX
F - Type 4[1]
G - Type 4X (304SS)[1]
H - Type 4X (316SS)[1]
K - Type 12[1]
X - None (Core & Coil)

Sound Level:
0 = Standard* (default)
3 = -3 dB
5 = -5 dB
8 = -8 dB

Special Duty:
None = Default
D = Land Drilling
M = Marine Duty

Note: kVA sizing allows motor efficiency and 6 Pulse Drive Harmonics (K=13).

* Standard Catalogue Offerings
Default Options - ignore if all following characters are Default values

[1] Outside of NRCan scope - non-energy efficient product provided unless otherwise specified

Support & Resources

No other transformer company can offer our service and quality in a full range of products.

Current Calculator

Calculate the Amps, Volts, or kVA of a transformer. Visit the "Online Tools" area of the HPS website.

Live Telephone Technical Support

Our inside sales team is available to quickly answer your questions. They are technically trained and able to answer most questions right over the phone.

Fast On-Site Response

On-site technicians are available to assist with any technical problems or issues that cannot be resolved over the phone.

Easy-To-Access Installation Manuals

All transformer installation manuals are conveniently located on our website so you can access them anywhere, anytime.

Data subject to change without notice.

ALUMINUM WOUND, THREE PHASE

460 Delta Primary Volts — 230Y/133 Secondary Volts — 60 Hz

kVA	Catalog Number	Case Style	Approx. Dimensions (Inches) Width	Depth	Height	Approx. Weight (Lbs.)	Mtg Type W - Wall F - Floor	Wiring Diagram
20	**TE3A0020JC**	DH1	21.50	20.10	22.00	220	F or W*	SCD 9
27	**TE3A0027JC**	DH2	25.80	23.80	28.80	280	F or W*	SCD 9
34	**TE3A0034JC**	DH2	25.80	23.80	28.80	340	F or W*	SCD 9
40	**TE3A0040JC**	DH2	25.80	23.80	28.80	360	F or W*	SCD 9
51	**TE3A0051JC**	DH2	25.80	23.80	28.80	400	F or W*	SCD 9
63	**TE3A0063JC**	DH3	28.30	27.00	36.00	420	F (Opt W)	SCD 9
75	**TE3A0075JC**	DH3	28.30	27.00	36.00	580	F (Opt W)	SCD 9
93	**TE3A0093JC**	DH3	28.30	27.00	36.00	615	F (Opt W)	SCD 9
118	**TE3A0118JC**	DH3	28.30	27.00	36.00	730	F (Opt W)	SCD 9
145	**TE3A0145JC**	DH4	31.50	29.50	44.50	900	F	SCD 9
175	**TE3A0175JC**	DH4	31.50	29.50	44.50	1000	F	SCD 9
220	**TE3A0220JC**	DH5	37.50	34.00	52.00	1450	F	SCD 9
275	**TE3A0275JC**	DH5	37.50	34.00	52.00	1600	F	SCD 9
330	**TE3A0330JC**	DH5	37.50	34.00	52.00	2000	F	SCD 9
440	**TE3A0440JC**	DH6	49.00	41.50	64.00	2600	F	SCD 10
550	**TE3A0550JC**	DH6	49.00	41.50	64.00	2850	F	SCD 10
660	**TE3A0660JC**	DH7	54.00	46.50	72.00	3700	F	SCD 10

W/C: Built-in Wall Ceiling Mounting Opt W/C: Wall Ceiling Mounting Kit "DW3" Available

460 Delta Primary Volts — 460Y/266 Secondary Volts — 60 Hz

kVA	Catalog Number	Case Style	Approx. Dimensions (Inches) Width	Depth	Height	Approx. Weight (Lbs.)	Mtg Type W - Wall F - Floor	Wiring Diagram
20	**TE3A0020JJ**	DH1	21.50	20.10	22.00	220	F or W*	SCD 9
27	**TE3A0027JJ**	DH2	25.80	23.80	28.80	280	F or W*	SCD 9
34	**TE3A0034JJ**	DH2	25.80	23.80	28.80	340	F or W*	SCD 9
40	**TE3A0040JJ**	DH2	25.80	23.80	28.80	360	F or W*	SCD 9
51	**TE3A0051JJ**	DH2	25.80	23.80	28.80	400	F or W*	SCD 9
63	**TE3A0063JJ**	DH3	28.30	27.00	36.00	420	F (Opt W)	SCD 9
75	**TE3A0075JJ**	DH3	28.30	27.00	36.00	580	F (Opt W)	SCD 9
93	**TE3A0093JJ**	DH3	28.30	27.00	36.00	615	F (Opt W)	SCD 9
118	**TE3A0118JJ**	DH3	28.30	27.00	36.00	730	F (Opt W)	SCD 9
145	**TE3A0145JJ**	DH4	31.50	29.50	44.50	900	F	SCD 9
175	**TE3A0175JJ**	DH4	31.50	29.50	44.50	1000	F	SCD 9
220	**TE3A0220JJ**	DH5	37.50	34.00	52.00	1450	F	SCD 9
275	**TE3A0275JJ**	DH5	37.50	34.00	52.00	1600	F	SCD 9
330	**TE3A0330JJ**	DH5	37.50	34.00	52.00	2000	F	SCD 9
440	**TE3A0440JJ**	DH6	49.00	41.50	64.00	2600	F	SCD 10
550	**TE3A0550JJ**	DH6	49.00	41.50	64.00	2850	F	SCD 10
660	**TE3A0660JJ**	DH7	54.00	46.50	72.00	3700	F	SCD 10

W/C: Built-in Wall Ceiling Mounting Opt W/C: Wall Ceiling Mounting Kit "DW3" Available

480 Delta Primary Volts — 380Y/220 Secondary Volts — 60 Hz

kVA	Catalog Number	Case Style	Approx. Dimensions (Inches) Width	Depth	Height	Approx. Weight (Lbs.)	Mtg Type W - Wall F - Floor	Wiring Diagram
20	**TE3A0020KG**	DH1	21.50	20.10	22.00	220	F or W*	SCD 9
27	**TE3A0027KG**	DH2	25.80	23.80	28.80	280	F or W*	SCD 9
34	**TE3A0034KG**	DH2	25.80	23.80	28.80	340	F or W*	SCD 9
40	**TE3A0040KG**	DH2	25.80	23.80	28.80	360	F or W*	SCD 9
51	**TE3A0051KG**	DH2	25.80	23.80	28.80	400	F or W*	SCD 9
63	**TE3A0063KG**	DH3	28.30	27.00	36.00	420	F (Opt W)	SCD 9
75	**TE3A0075KG**	DH3	28.30	27.00	36.00	580	F (Opt W)	SCD 9
93	**TE3A0093KG**	DH3	28.30	27.00	36.00	615	F (Opt W)	SCD 9
118	**TE3A0118KG**	DH3	28.30	27.00	36.00	730	F (Opt W)	SCD 9
145	**TE3A0145KG**	DH4	31.50	29.50	44.50	900	F	SCD 9
175	**TE3A0175KG**	DH4	31.50	29.50	44.50	1000	F	SCD 9
220	**TE3A0220KG**	DH5	37.50	34.00	52.00	1450	F	SCD 9
275	**TE3A0275KG**	DH5	37.50	34.00	52.00	1600	F	SCD 9
330	**TE3A0330KG**	DH5	37.50	34.00	52.00	2000	F	SCD 9
440	**TE3A0440KG**	DH6	49.00	41.50	64.00	2600	F	SCD 10
550	**TE3A0550KG**	DH6	49.00	41.50	64.00	2850	F	SCD 10
660	**TE3A0660KG**	DH7	54.00	46.50	72.00	3700	F	SCD 10

W/C: Built-in Wall Ceiling Mounting Opt W/C: Wall Ceiling Mounting Kit "DW3" Available

For smaller kVA sizes, please contact HPS Sales for more information.

Selection Tables

HPS Tribune E

Energy Efficient Drive Isolation

ALUMINUM WOUND, THREE PHASE

480 Delta Primary Volts — 480Y/277 Secondary Volts — 60 Hz

kVA	Catalog Number	Case Style	Approx. Dimensions (Inches) Width	Depth	Height	Approx. Weight (Lbs.)	Mtg Type W - Wall F - Floor	Wiring Diagram
20	**TE3A0020KK**	DH1	21.50	20.10	22.00	220	F or W*	SCD 9
27	**TE3A0027KK**	DH2	25.80	23.80	28.80	280	F or W*	SCD 9
34	**TE3A0034KK**	DH2	25.80	23.80	28.80	340	F or W*	SCD 9
40	**TE3A0040KK**	DH2	25.80	23.80	28.80	360	F or W*	SCD 9
51	**TE3A0051KK**	DH2	25.80	23.80	28.80	400	F or W*	SCD 9
63	**TE3A0063KK**	DH3	28.30	27.00	36.00	420	F (Opt W)	SCD 9
75	**TE3A0075KK**	DH3	28.30	27.00	36.00	580	F (Opt W)	SCD 9
93	**TE3A0093KK**	DH3	28.30	27.00	36.00	615	F (Opt W)	SCD 9
118	**TE3A0118KK**	DH3	28.30	27.00	36.00	730	F (Opt W)	SCD 9
145	**TE3A0145KK**	DH4	31.50	29.50	44.50	900	F	SCD 9
175	**TE3A0175KK**	DH4	31.50	29.50	44.50	1000	F	SCD 9
220	**TE3A0220KK**	DH5	37.50	34.00	52.00	1450	F	SCD 9
275	**TE3A0275KK**	DH5	37.50	34.00	52.00	1600	F	SCD 9
330	**TE3A0330KK**	DH5	37.50	34.00	52.00	2000	F	SCD 9
440	**TE3A0440KK**	DH6	49.00	41.50	64.00	2600	F	SCD 10
550	**TE3A0550KK**	DH6	49.00	41.50	64.00	2850	F	SCD 10
660	**TE3A0660KK**	DH7	54.00	46.50	72.00	3700	F	SCD 10

W/C: Built-in Wall Ceiling Mounting Opt W/C: Wall Ceiling Mounting Kit "DW3" Available

575 Delta Primary Volts — 380Y/220 Secondary Volts — 60 Hz

kVA	Catalog Number	Case Style	Approx. Dimensions (Inches) Width	Depth	Height	Approx. Weight (Lbs.)	Mtg Type W - Wall F - Floor	Wiring Diagram
20	**TE3A0020NG**	DH1	21.50	20.10	22.00	220	F or W*	SCD 9
27	**TE3A0027NG**	DH2	25.80	23.80	28.80	280	F or W*	SCD 9
34	**TE3A0034NG**	DH2	25.80	23.80	28.80	340	F or W*	SCD 9
40	**TE3A0040NG**	DH2	25.80	23.80	28.80	360	F or W*	SCD 9
51	**TE3A0051NG**	DH2	25.80	23.80	28.80	400	F or W*	SCD 9
63	**TE3A0063NG**	DH3	28.30	27.00	36.00	420	F (Opt W)	SCD 9
75	**TE3A0075NG**	DH3	28.30	27.00	36.00	580	F (Opt W)	SCD 9
93	**TE3A0093NG**	DH3	28.30	27.00	36.00	615	F (Opt W)	SCD 9
118	**TE3A0118NG**	DH3	28.30	27.00	36.00	730	F (Opt W)	SCD 9
145	**TE3A0145NG**	DH4	31.50	29.50	44.50	900	F	SCD 9
175	**TE3A0175NG**	DH4	31.50	29.50	44.50	1000	F	SCD 9
220	**TE3A0220NG**	DH5	37.50	34.00	52.00	1450	F	SCD 9
275	**TE3A0275NG**	DH5	37.50	34.00	52.00	1600	F	SCD 9
330	**TE3A0330NG**	DH5	37.50	34.00	52.00	2000	F	SCD 9
440	**TE3A0440NG**	DH6	49.00	41.50	64.00	2600	F	SCD 10
550	**TE3A0550NG**	DH6	49.00	41.50	64.00	2850	F	SCD 10
660	**TE3A0660NG**	DH7	54.00	46.50	72.00	3700	F	SCD 10

W/C: Built-in Wall Ceiling Mounting Opt W/C: Wall Ceiling Mounting Kit "DW3" Available

575 Delta Primary Volts — 460Y/266 Secondary Volts — 60 Hz

kVA	Catalog Number	Case Style	Approx. Dimensions (Inches) Width	Depth	Height	Approx. Weight (Lbs.)	Mtg Type W - Wall F - Floor	Wiring Diagram
20	**TE3A0020NJ**	DH1	21.50	20.10	22.00	220	F or W*	SCD 9
27	**TE3A0027NJ**	DH2	25.80	23.80	28.80	280	F or W*	SCD 9
34	**TE3A0034NJ**	DH2	25.80	23.80	28.80	340	F or W*	SCD 9
40	**TE3A0040NJ**	DH2	25.80	23.80	28.80	360	F or W*	SCD 9
51	**TE3A0051NJ**	DH2	25.80	23.80	28.80	400	F or W*	SCD 9
63	**TE3A0063NJ**	DH3	28.30	27.00	36.00	420	F (Opt W)	SCD 9
75	**TE3A0075NJ**	DH3	28.30	27.00	36.00	580	F (Opt W)	SCD 9
93	**TE3A0093NJ**	DH3	28.30	27.00	36.00	615	F (Opt W)	SCD 9
118	**TE3A0118NJ**	DH3	28.30	27.00	36.00	730	F (Opt W)	SCD 9
145	**TE3A0145NJ**	DH4	31.50	29.50	44.50	900	F	SCD 9
175	**TE3A0175NJ**	DH4	31.50	29.50	44.50	1000	F	SCD 9
220	**TE3A0220NJ**	DH5	37.50	34.00	52.00	1450	F	SCD 9
275	**TE3A0275NJ**	DH5	37.50	34.00	52.00	1600	F	SCD 9
330	**TE3A0330NJ**	DH5	37.50	34.00	52.00	2000	F	SCD 9
440	**TE3A0440NJ**	DH6	49.00	41.50	64.00	2600	F	SCD 10
550	**TE3A0550NJ**	DH6	49.00	41.50	64.00	2850	F	SCD 10
660	**TE3A0660NJ**	DH7	54.00	46.50	72.00	3700	F	SCD 10

W/C: Built-in Wall Ceiling Mounting Opt W/C: Wall Ceiling Mounting Kit "DW3" Available

For smaller kVA sizes, please contact HPS Sales for more information.

Data subject to change without notice.

ALUMINUM WOUND, THREE PHASE

575 Delta Primary Volts 575Y/332 Secondary Volts 60 Hz

kVA	Catalog Number	Case Style	Approx. Dimensions (Inches) Width	Depth	Height	Approx. Weight (Lbs.)	Mtg Type W - Wall F - Floor	Wiring Diagram
20	**TE3A0020NN**	DH1	21.50	20.10	22.00	220	F or W*	SCD 9
27	**TE3A0027NN**	DH2	25.80	23.80	28.80	280	F or W*	SCD 9
34	**TE3A0034NN**	DH2	25.80	23.80	28.80	340	F or W*	SCD 9
40	**TE3A0040NN**	DH2	25.80	23.80	28.80	360	F or W*	SCD 9
51	**TE3A0051NN**	DH2	25.80	23.80	28.80	400	F or W*	SCD 9
63	**TE3A0063NN**	DH3	28.30	27.00	36.00	420	F (Opt W)	SCD 9
75	**TE3A0075NN**	DH3	28.30	27.00	36.00	580	F (Opt W)	SCD 9
93	**TE3A0093NN**	DH3	28.30	27.00	36.00	615	F (Opt W)	SCD 9
118	**TE3A0118NN**	DH3	28.30	27.00	36.00	730	F (Opt W)	SCD 9
145	**TE3A0145NN**	DH4	31.50	29.50	44.50	900	F	SCD 9
175	**TE3A0175NN**	DH4	31.50	29.50	44.50	1000	F	SCD 9
220	**TE3A0220NN**	DH5	37.50	34.00	52.00	1450	F	SCD 9
275	**TE3A0275NN**	DH5	37.50	34.00	52.00	1600	F	SCD 9
330	**TE3A0330NN**	DH5	37.50	34.00	52.00	2000	F	SCD 9
440	**TE3A0440NN**	DH6	49.00	41.50	64.00	2600	F	SCD 10
550	**TE3A0550NN**	DH6	49.00	41.50	64.00	2850	F	SCD 10
660	**TE3A0660NN**	DH7	54.00	46.50	72.00	3700	F	SCD 10

W/C: Built-in Wall Ceiling Mounting Opt W/C: Wall Ceiling Mounting Kit "DW3" Available

COPPER WOUND, THREE PHASE

460 Delta Primary Volts 230Y/133 Secondary Volts 60 Hz

kVA	Catalog Number	Case Style	Approx. Dimensions (Inches) Width	Depth	Height	Approx. Weight (Lbs.)	Mtg Type W - Wall F - Floor	Wiring Diagram
20	**TE3A0020JCM**	DH1	21.50	20.10	22.00	230	F or W*	SCD 9
27	**TE3A0027JCM**	DH2	25.80	23.80	28.80	310	F or W*	SCD 9
34	**TE3A0034JCM**	DH2	25.80	23.80	28.80	350	F or W*	SCD 9
40	**TE3A0040JCM**	DH2	25.80	23.80	28.80	380	F or W*	SCD 9
51	**TE3A0051JCM**	DH2	25.80	23.80	28.80	450	F or W*	SCD 9
63	**TE3A0063JCM**	DH3	28.30	27.00	36.00	610	F (Opt W)	SCD 9
75	**TE3A0075JCM**	DH3	28.30	27.00	36.00	670	F (Opt W)	SCD 9
93	**TE3A0093JCM**	DH3	28.30	27.00	36.00	750	F (Opt W)	SCD 9
118	**TE3A0118JCM**	DH3	28.30	27.00	36.00	830	F (Opt W)	SCD 9
145	**TE3A0145JCM**	DH4	31.50	29.50	44.50	1000	F	SCD 9
175	**TE3A0175JCM**	DH4	31.50	29.50	44.50	1100	F	SCD 9
220	**TE3A0220JCM**	DH4	31.50	29.50	44.50	1450	F	SCD 9
275	**TE3A0275JCM**	DH4	31.50	29.50	44.50	1650	F	SCD 9
330	**TE3A0330JCM**	DH5	37.50	34.00	52.00	2100	F	SCD 9
440	**TE3A0440JCM**	DH6	49.00	41.50	64.00	3000	F	SCD 10
550	**TE3A0550JCM**	DH6	49.00	41.50	64.00	3250	F	SCD 10
660	**TE3A0660JCM**	DH6	49.00	41.50	64.00	3600	F	SCD 10

W/C: Built-in Wall Ceiling Mounting Opt W/C: Wall Ceiling Mounting Kit "DW3" Available

460 Delta Primary Volts 460Y/266 Secondary Volts 60 Hz

kVA	Catalog Number	Case Style	Approx. Dimensions (Inches) Width	Depth	Height	Approx. Weight (Lbs.)	Mtg Type W - Wall F - Floor	Wiring Diagram
20	**TE3A0020JJM**	DH1	21.50	20.10	22.00	230	F or W*	SCD 9
27	**TE3A0027JJM**	DH2	25.80	23.80	28.80	310	F or W*	SCD 9
34	**TE3A0034JJM**	DH2	25.80	23.80	28.80	350	F or W*	SCD 9
40	**TE3A0040JJM**	DH2	25.80	23.80	28.80	380	F or W*	SCD 9
51	**TE3A0051JJM**	DH2	25.80	23.80	28.80	450	F or W*	SCD 9
63	**TE3A0063JJM**	DH3	28.30	27.00	36.00	610	F (Opt W)	SCD 9
75	**TE3A0075JJM**	DH3	28.30	27.00	36.00	670	F (Opt W)	SCD 9
93	**TE3A0093JJM**	DH3	28.30	27.00	36.00	750	F (Opt W)	SCD 9
118	**TE3A0118JJM**	DH3	28.30	27.00	36.00	830	F (Opt W)	SCD 9
145	**TE3A0145JJM**	DH4	31.50	29.50	44.50	1000	F	SCD 9
175	**TE3A0175JJM**	DH4	31.50	29.50	44.50	1100	F	SCD 9
220	**TE3A0220JJM**	DH4	31.50	29.50	44.50	1450	F	SCD 9
275	**TE3A0275JJM**	DH4	31.50	29.50	44.50	1650	F	SCD 9
330	**TE3A0330JJM**	DH5	37.50	34.00	52.00	2100	F	SCD 9
440	**TE3A0440JJM**	DH6	49.00	41.50	64.00	3000	F	SCD 10
550	**TE3A0550JJM**	DH6	49.00	41.50	64.00	3250	F	SCD 10
660	**TE3A0660JJM**	DH6	49.00	41.50	64.00	3600	F	SCD 10

W/C: Built-in Wall Ceiling Mounting Opt W/C: Wall Ceiling Mounting Kit "DW3" Available
For smaller kVA sizes, please contact HPS Sales for more information.

Data subject to change without notice.

Selection Tables

HPS Tribune E

Energy Efficient Drive Isolation

COPPER WOUND, THREE PHASE

480 Delta Primary Volts — 380Y/220 Secondary Volts — 60 Hz

kVA	Catalog Number	Case Style	Approx. Dimensions (Inches) Width	Depth	Height	Approx. Weight (Lbs.)	Mtg Type W - Wall F - Floor	Wiring Diagram
20	**TE3A0020KGM**	DH1	21.50	20.10	22.00	230	F or W*	SCD 9
27	**TE3A0027KGM**	DH2	25.80	23.80	28.80	310	F or W*	SCD 9
34	**TE3A0034KGM**	DH2	25.80	23.80	28.80	350	F or W*	SCD 9
40	**TE3A0040KGM**	DH2	25.80	23.80	28.80	380	F or W*	SCD 9
51	**TE3A0051KGM**	DH2	25.80	23.80	28.80	450	F or W*	SCD 9
63	**TE3A0063KGM**	DH3	28.30	27.00	36.00	610	F (Opt W)	SCD 9
75	**TE3A0075KGM**	DH3	28.30	27.00	36.00	670	F (Opt W)	SCD 9
93	**TE3A0093KGM**	DH3	28.30	27.00	36.00	750	F (Opt W)	SCD 9
118	**TE3A0118KGM**	DH3	28.30	27.00	36.00	830	F (Opt W)	SCD 9
145	**TE3A0145KGM**	DH4	31.50	29.50	44.50	1000	F	SCD 9
175	**TE3A0175KGM**	DH4	31.50	29.50	44.50	1100	F	SCD 9
220	**TE3A0220KGM**	DH4	31.50	29.50	44.50	1450	F	SCD 9
275	**TE3A0275KGM**	DH4	31.50	29.50	44.50	1650	F	SCD 9
330	**TE3A0330KGM**	DH5	37.50	34.00	52.00	2100	F	SCD 9
440	**TE3A0440KGM**	DH6	49.00	41.50	64.00	3000	F	SCD 10
550	**TE3A0550KGM**	DH6	49.00	41.50	64.00	3250	F	SCD 10
660	**TE3A0660KGM**	DH6	49.00	41.50	64.00	3600	F	SCD 10

W/C: Built-in Wall Ceiling Mounting Opt W/C: Wall Ceiling Mounting Kit "DW3" Available

480 Delta Primary Volts — 480Y/277 Secondary Volts — 60 Hz

kVA	Catalog Number	Case Style	Approx. Dimensions (Inches) Width	Depth	Height	Approx. Weight (Lbs.)	Mtg Type W - Wall F - Floor	Wiring Diagram
20	**TE3A0020KKM**	DH1	21.50	20.10	22.00	230	F or W*	SCD 9
27	**TE3A0027KKM**	DH2	25.80	23.80	28.80	310	F or W*	SCD 9
34	**TE3A0034KKM**	DH2	25.80	23.80	28.80	350	F or W*	SCD 9
40	**TE3A0040KKM**	DH2	25.80	23.80	28.80	380	F or W*	SCD 9
51	**TE3A0051KKM**	DH2	25.80	23.80	28.80	450	F or W*	SCD 9
63	**TE3A0063KKM**	DH3	28.30	27.00	36.00	610	F (Opt W)	SCD 9
75	**TE3A0075KKM**	DH3	28.30	27.00	36.00	670	F (Opt W)	SCD 9
93	**TE3A0093KKM**	DH3	28.30	27.00	36.00	750	F (Opt W)	SCD 9
118	**TE3A0118KKM**	DH3	28.30	27.00	36.00	830	F (Opt W)	SCD 9
145	**TE3A0145KKM**	DH4	31.50	29.50	44.50	1000	F	SCD 9
175	**TE3A0175KKM**	DH4	31.50	29.50	44.50	1100	F	SCD 9
220	**TE3A0220KKM**	DH4	31.50	29.50	44.50	1450	F	SCD 9
275	**TE3A0275KKM**	DH4	31.50	29.50	44.50	1650	F	SCD 9
330	**TE3A0330KKM**	DH5	37.50	34.00	52.00	2100	F	SCD 9
440	**TE3A0440KKM**	DH6	49.00	41.50	64.00	3000	F	SCD 10
550	**TE3A0550KKM**	DH6	49.00	41.50	64.00	3250	F	SCD 10
660	**TE3A0660KKM**	DH6	49.00	41.50	64.00	3600	F	SCD 10

W/C: Built-in Wall Ceiling Mounting Opt W/C: Wall Ceiling Mounting Kit "DW3" Available

575 Delta Primary Volts — 380Y/220 Secondary Volts — 60 Hz

kVA	Catalog Number	Case Style	Approx. Dimensions (Inches) Width	Depth	Height	Approx. Weight (Lbs.)	Mtg Type W - Wall F - Floor	Wiring Diagram
20	**TE3A0020NGM**	DH1	21.50	20.10	22.00	230	F or W*	SCD 9
27	**TE3A0027NGM**	DH2	25.80	23.80	28.80	310	F or W*	SCD 9
34	**TE3A0034NGM**	DH2	25.80	23.80	28.80	350	F or W*	SCD 9
40	**TE3A0040NGM**	DH2	25.80	23.80	28.80	380	F or W*	SCD 9
51	**TE3A0051NGM**	DH2	25.80	23.80	28.80	450	F or W*	SCD 9
63	**TE3A0063NGM**	DH3	28.30	27.00	36.00	610	F (Opt W)	SCD 9
75	**TE3A0075NGM**	DH3	28.30	27.00	36.00	670	F (Opt W)	SCD 9
93	**TE3A0093NGM**	DH3	28.30	27.00	36.00	750	F (Opt W)	SCD 9
118	**TE3A0118NGM**	DH3	28.30	27.00	36.00	830	F (Opt W)	SCD 9
145	**TE3A0145NGM**	DH4	31.50	29.50	44.50	1000	F	SCD 9
175	**TE3A0175NGM**	DH4	31.50	29.50	44.50	1100	F	SCD 9
220	**TE3A0220NGM**	DH4	31.50	29.50	44.50	1450	F	SCD 9
275	**TE3A0275NGM**	DH4	31.50	29.50	44.50	1650	F	SCD 9
330	**TE3A0330NGM**	DH5	37.50	34.00	52.00	2100	F	SCD 9
440	**TE3A0440NGM**	DH6	49.00	41.50	64.00	3000	F	SCD 10
550	**TE3A0550NGM**	DH6	49.00	41.50	64.00	3250	F	SCD 10
660	**TE3A0660NGM**	DH6	49.00	41.50	64.00	3600	F	SCD 10

W/C: Built-in Wall Ceiling Mounting Opt W/C: Wall Ceiling Mounting Kit "DW3" Available

For smaller kVA sizes, please contact HPS Sales for more information.

Data subject to change without notice.

COPPER WOUND, THREE PHASE

575 Delta Primary Volts 460Y/266 Secondary Volts 60 Hz

kVA	Catalog Number	Case Style	Approx. Dimensions (Inches) Width	Depth	Height	Approx. Weight (Lbs.)	Mtg Type W - Wall F - Floor	Wiring Diagram
20	**TE3A0020NJM**	DH1	21.50	20.10	22.00	230	F or W*	SCD 9
27	**TE3A0027NJM**	DH2	25.80	23.80	28.80	310	F or W*	SCD 9
34	**TE3A0034NJM**	DH2	25.80	23.80	28.80	350	F or W*	SCD 9
40	**TE3A0040NJM**	DH2	25.80	23.80	28.80	380	F or W*	SCD 9
51	**TE3A0051NJM**	DH2	25.80	23.80	28.80	450	F or W*	SCD 9
63	**TE3A0063NJM**	DH3	28.30	27.00	36.00	610	F (Opt W)	SCD 9
75	**TE3A0075NJM**	DH3	28.30	27.00	36.00	670	F (Opt W)	SCD 9
93	**TE3A0093NJM**	DH3	28.30	27.00	36.00	750	F (Opt W)	SCD 9
118	**TE3A0118NJM**	DH3	28.30	27.00	36.00	830	F (Opt W)	SCD 9
145	**TE3A0145NJM**	DH4	31.50	29.50	44.50	1000	F	SCD 9
175	**TE3A0175NJM**	DH4	31.50	29.50	44.50	1100	F	SCD 9
220	**TE3A0220NJM**	DH4	31.50	29.50	44.50	1450	F	SCD 9
275	**TE3A0275NJM**	DH4	31.50	29.50	44.50	1650	F	SCD 9
330	**TE3A0330NJM**	DH5	37.50	34.00	52.00	2100	F	SCD 9
440	**TE3A0440NJM**	DH6	49.00	41.50	64.00	3000	F	SCD 10
550	**TE3A0550NJM**	DH6	49.00	41.50	64.00	3250	F	SCD 10
660	**TE3A0660NJM**	DH6	49.00	41.50	64.00	3600	F	SCD 10

W/C: Built-in Wall Ceiling Mounting Opt W/C: Wall Ceiling Mounting Kit "DW3" Available

575 Delta Primary Volts 575Y/332 Secondary Volts 60 Hz

kVA	Catalog Number	Case Style	Approx. Dimensions (Inches) Width	Depth	Height	Approx. Weight (Lbs.)	Mtg Type W - Wall F - Floor	Wiring Diagram
20	**TE3A0020NNM**	DH1	21.50	20.10	22.00	230	F or W*	SCD 9
27	**TE3A0027NNM**	DH2	25.80	23.80	28.80	310	F or W*	SCD 9
34	**TE3A0034NNM**	DH2	25.80	23.80	28.80	350	F or W*	SCD 9
40	**TE3A0040NNM**	DH2	25.80	23.80	28.80	380	F or W*	SCD 9
51	**TE3A0051NNM**	DH2	25.80	23.80	28.80	450	F or W*	SCD 9
63	**TE3A0063NNM**	DH3	28.30	27.00	36.00	610	F (Opt W)	SCD 9
75	**TE3A0075NNM**	DH3	28.30	27.00	36.00	670	F (Opt W)	SCD 9
93	**TE3A0093NNM**	DH3	28.30	27.00	36.00	750	F (Opt W)	SCD 9
118	**TE3A0118NNM**	DH3	28.30	27.00	36.00	830	F (Opt W)	SCD 9
145	**TE3A0145NNM**	DH4	31.50	29.50	44.50	1000	F	SCD 9
175	**TE3A0175NNM**	DH4	31.50	29.50	44.50	1100	F	SCD 9
220	**TE3A0220NNM**	DH4	31.50	29.50	44.50	1450	F	SCD 9
275	**TE3A0275NNM**	DH4	31.50	29.50	44.50	1650	F	SCD 9
330	**TE3A0330NNM**	DH5	37.50	34.00	52.00	2100	F	SCD 9
440	**TE3A0440NNM**	DH6	49.00	41.50	64.00	3000	F	SCD 10
550	**TE3A0550NNM**	DH6	49.00	41.50	64.00	3250	F	SCD 10
660	**TE3A0660NNM**	DH6	49.00	41.50	64.00	3600	F	SCD 10

W/C: Built-in Wall Ceiling Mounting Opt W/C: Wall Ceiling Mounting Kit "DW3" Available

For smaller kVA sizes, please contact HPS Sales for more information.

Data subject to change without notice.

HPS Tribune™ E

Energy Efficient Drive Isolation Transformers

Three Phase Typical Impedance & Inrush Current Range

80°C to 150°C Rise, 208 to 600V

kVA	Efficiency at 35% of Rated Load, at 75°C	Impedance	Peak Inrush Current Multiple of RMS Current
20	98.00%	2-6.5%	12 to 15
27	98.16%		
34	98.28%		
40	98.34%		
51	98.44%	2-6.5%	10 to 12
63	98.52%		
75	98.60%		
93	98.67%		
118	98.75%		
145	98.82%		
175	98.87%		
220	98.93%		
275	98.99%		
330	99.04%	4-7%	8 to 10
440	99.10%		
550	99.16%	4-7.5%	8 to 10
660	99.20%		

Performance Data

Note: Typical Performance Data is Available Upon Request.

Data subject to change without notice.

Enclosure Drawings

DH Series

Hammond Power Solutions

FRONT VIEW

All Dimensions in Inches

SIDE VIEW

Case Style	Dimensions in Inches													
	A	A1	B	B1	C	D	E	F	G	H	K	L	MA	MB
DH1	21.5	18.8	20.1	15	22	12.6	2	7	8.3	6.6	1.38 X 1.75 K.O.	2.6	20	9
DH2	25.8	23.3	23.8	18	28.8	17	2	8	10.3	8.6	1.75 X 2.50 K.O.	3.8	24.6	9

[1] Knockout (K) sizes are actual diameters of knockout, not conduit sizes.

FRONT VIEW

All Dimensions in Inches

SIDE VIEW

Case Style	Dimensions in Inches											
	A	B	B1	C	D	E	H	K	L	M	MA	MB
DH3	28.3	27	22	36	22	3	12	2.00 X 3.00 K.O	1	26	21.5	24
DH4	31.5	29.5	24.5	44.5	27.5	3	14.5	2.00 X 3.00 K.O.	1	28.5	23.5	26.5

[1] Knockout (K) sizes are actual diameters of knockout, not conduit sizes.

Data subject to change without notice.

Enclosure Drawings

DH Series

Case Style	Dimensions in Inches											
	A	B	B1	C	D	E	F	H	L	M	MA	MB
DH5	38	34	29	52	32	6	8	6.6	1	33	24	31

[1] Knockout (K) sizes are actual diameters of knockout, not conduit sizes.

Case Style	Dimensions in Inches												
	A	B	B1	C	D	E	F	G	H	L	M	MA	MB
DH6	49	42	35	64	32	6	10	6	9.3	1	39	30	37
DH7	54	47	40	72	40	8	10	6	8.8	1	44	36	42

[1] Knockout (K) sizes are actual diameters of knockout, not conduit sizes.

Data subject to change without notice.

ENCLOSURE MOUNTING KITS

If wall and/or ceiling mounting is desired for a transformer, optional mounting kits can be ordered separately. These mounting kits are NOT available for all enclosure case styles. Therefore, it is important that you confirm your enclosure case style, then use the selection table to the right to determine if A) a mounting kit is available and B) determine the correct HPS "Mounting Kit" part number that you must order. One kit is required for each transformer.

Note: Some of the mounting kits can be used for both wall and ceiling mount, while others are for wall mounting only. The table indicates which mounting methods are available for each kit. The DW3 wall/ceiling mounting kit also includes a drip plate.

The DW3 wall/ceiling mounting kit is only designed for units up to 1000 pounds (453 kg) maximum.

If it is intended to wall and/or ceiling mount an enclosure that does not have a wall/ceiling mount kit available, considerations must be made to mechanically support the transformer safely and to install per the local building code. A drip plate must be provided beneath the enclosure per UL 1561 and CSA C22.2 No. 47.

Enclosure Case Style	Wall Mount Available	Ceiling Mount Available	HPS Mounting Kit P/N
DH1	Yes	Yes	DH1DP
DH2	Yes	Yes	DH2DP
DH3	Yes	Yes	DW3
DH4	No	No	N/A
DH5	No	No	N/A
DH6	No	No	N/A
DH7	No	No	N/A

DH1DP and DH2DP drip plate kit required for wall/ceiling mounting kits

The DH1 and DH2 enclosures are designed with integral wall mounting capabilities. However, when you wall mount them, you must also install the bottom drip plate as shown below. The "MB" dimensions listed in the table below indicate the location for the wall mounting hardware.

For ceiling mounting of the DH1 and DH2, refer to the "MA" dimensions listed in the table below and hang the enclosure using appropriate sized ceiling hanger rods. However, you must be sure to install the bottom drip plate to the bottom of the enclosure, then bring the hanger rod down through both the enclosure bottom mounting holes, through the drip plate mounting holes, and install mounting hardware.

Note: Do not ceiling mount either the DH1 and DH2 enclosures without installing the bottom drip plate. All mounting hardware should be rated Grade 8 or higher.

Mounting Kit P/N	Enclosure Style	MA Dimension	MB Dimension
DH1DP	DH1	9.00	7.00
DH2DP	DH2	9.00	8.00

Data subject to change without notice.

Enclosure Wall Mounting Dimensions

DW3 WALL MOUNTING KIT DIMENSIONS

The following drawings detail the wall mounting dimensions required and method by which the DW3 kit are installed on their respective DH3 enclosures. The DW3 wall mounting kit also includes a drip plate.

DW3 Wall Mount Dimensions

DW3 CEILING MOUNTING KIT DIMENSIONS

The following drawings detail the ceiling mounting dimensions required and method by which the DW3 kit are installed on the DH3 enclosure.

DW3 Ceiling Mount - Mounting Dimensions for DH3 Enclosures

Data subject to change without notice.

ANTI-VIBRATION PAD AND VIBRATION ISOLATOR KITS

All standard transformers come with installed internal vibration absorbing pads to minimize noise during operation. Optional external "anti-vibration" pad and "vibration isolator" (for higher noise dampening) kits can be used to reduce operating noise even further. All pads are resistant to industrial contaminants like oil, acids and alkalines.

Anti-Vibration Pad Kits

Part No.	Case Style	Description
PD1	DH1-DH5	Set of four (4) rubber anti-vibration pads which replace the standard steel enclosure washers.
PD2	DH6-DH8	

All anti-vibration pad kits and vibration isolator kits contain a set of four (4) pads or isolators. Therefore only one kit is required per transformer.

Vibration Isolator Kits

Part No.	Transformer Weight (Lb.)	Description
NMP1	Up to 340 lbs	Set of four (4) molded neoprene and steel plate assemblies that virtually eliminate vibration noise between the transformer and the mounting surface.
NMP2	341 to 680 lbs	
NMP3	681 to 1040 lbs	
NMP4	1041 to 1740 lbs	
NMP5	1741 to 2330 lbs	
NMP6	2331 to 3450 lbs	
NMP7	3451 to 4690 lbs	

All anti-vibration pad kits and vibration isolator kits contain a set of four (4) pads or isolators. Therefore only one kit is required per transformer.

Data subject to change without notice.

Enclosure Spare Parts

HPS Part No.	Part Description	Qty per Package
DH1001	DH1 Enclosure Top Panel	1
DH1002	DH1 Enclosure Left Side Panel	1
DH1003	DH1 Enclosure Right Side Panel	1
DH2001	DH2 Enclosure Top Panel	1
DH2002	DH2 Enclosure Left Side Panel	1
DH2003	DH2 Enclosure Right Side Panel	1
DH3001	DH3 Enclosure Top Cover	1
DH3002	DH3 Enclosure Left Side Panel	1
DH3003	DH3 Enclosure Right Side Panel	1
DH3005	DH3 Enclosure Back Panel	1
DH3007	DH3 Enclosure Drip-Shield	1
DH4001	DH3 Enclosure Top Cover	1
DH4002	DH4 Enclosure Left Side Panel	1
DH4003	DH4 Enclosure Right Side Panel	1
DH4005	DH3 Enclosure Back Panel	1
DH4007	DH4 Enclosure Drip-Shield	1
DH5001	DH5 Enclosure Top Cover	1
DH5002	DH5 Enclosure Left Side Panel	1
DH5003	DH5 Enclosure Right Side Panel	1
DH5005	DH5 Enclosure Back Panel	1
DH5007	DH5 Drip-Shield	1
DH5008	DH5 Enclosure Jacking Angle - Front	1
DH5009	DH5 Enclosure Jacking Angle - Back	1

Minimum Order Size applies to enclosure spare parts.
Due to technical and certification compliance reasons only selected enclosure parts are offered as spare parts (as per table).
For front panel replacements please contact your HPS sales office.

Touch-Up Paint

Please verify part number with HPS Customer Service to determine which shade of paint to use.

Mexico Built Products: **PNTB10098**
Canada/US Built Products: **PNTB10099**

Data subject to change without notice.

SCD 9

SCHEMATIC

CONNECTIONS

% Voltage	Primary Volts	Connect lines to	Inter-connect
105.0%	483 504 604	H1, H2, H3	1
102.5%	472 492 589	H1, H2, H3	2
100.0%	**460 480 575**	**H1, H2, H3**	**3**
97.5%	449 468 61	H1, H2, H3	4
95.0%	437 456 546	H1, H2, H3	5
	Secondary Volts	Connect lines to	Inter-connect
	230 460 480 575	X1, X2, X3	
	133 266 277 332	X1,X0 X2,X0 X3,X0	

SCD 10

SCHEMATIC

CONNECTIONS

% Voltage	Primary Volts	Connect lines to	Inter-connect
105.0%	483 504 604 630	H1, H2, H3	1-2
102.5%	472 492 589 615	H1, H2, H3	2-3
100.0%	**460 480 575 600**	**H1, H2, H3**	**3-4**
97.5%	449 468 561 585	H1, H2, H3	4-5
95.0%	437 456 546 570	H1, H2, H3	5-6
	Secondary Volts	Connect lines to	Inter-connect
	208 230 460 480 575	X1, X2, X3	
	120 133 266 277 332	X1,X0 X2,X0 X3,X0	

Tap arrangements shown are for catalog products only. May not be applicable for other products.

Data subject to change without notice.

Hammond Power Solutions

CANADA

UNITED STATES

ASIA

CANADA
Hammond Power Solutions
595 Southgate Drive
Guelph, Ontario N1G 3W6
Tel: (519) 822-2441
Fax: (519) 822-9701
Toll Free: 1-888-798-8882
sales@hammondpowersolutions.com

UNITED STATES
Hammond Power Solutions
1100 Lake Street
Baraboo, Wisconsin 53913-2866
Tel: (608) 356-3921
Fax: (608) 355-7623
Toll Free: 1-866-705-4684
sales@hammondpowersolutions.com

ASIA
Hammond Power Solutions Pvt. Ltd.
D. No. 5-2/222/IP/B, II-Floor, Icon Plaza
Allwyn X-Roads, Miyapur, Hyderabad 500 049
Tel: +91-994-995-0009
marketing-india@hammondpowersolutions.com

EUROPE (Sales Office)
Hammond Power Solutions SpA
Tel: +49 (152) 08800468
sales-emea@hammondpowersolutions.com

Distributed by:

TRISEL17
December 2019