



Compliant to NRCan 2019 Efficiency Standards HPS Tribune[™] E Energy Efficient Drive Isolation Transformers



HPS Tribune[™]

Energy Efficient Drive Isolation Transformers

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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% | | | | | | |

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





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

HPS Tribune™ E

Energy Efficient Drive Isolation Transformers

Installation made fast & easy!

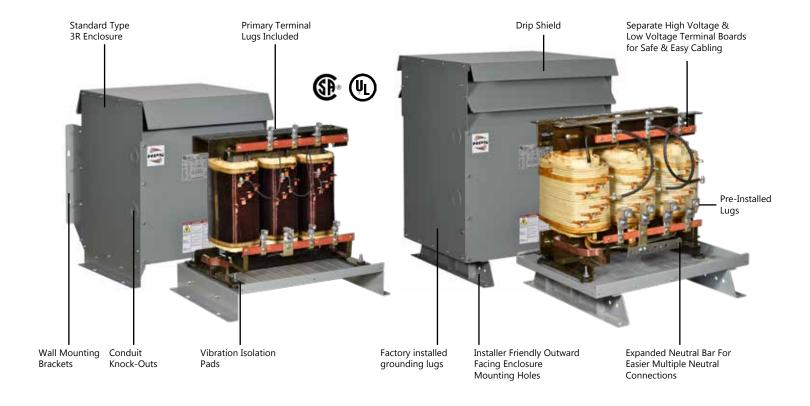
Tired of spending extra money on labor and material to install optional transformer features? Purchasing an HPS Tribune E will save you all these additional costs. HPS Tribune E has these optional features pre-installed as part of our standard product line.



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



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 220°C (150°C rise)

System: (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:

Termination: Front accessible separate high and low

voltage terminals; connectors suitable for aluminum and copper are provided

Refer to wiring diagrams for details

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: $S_{DS} \le 2.0 \text{ g}$ 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

HPS Tribune[™] E

Generation Phase

Energy Efficient Drive Isolation Transformers

kVA

HPS Tribune Part Number Guide

Example

Family Appl. Type

| | _ | | | | | _ | | | | | | - | |
|--------------------|---------------|-----|------|------------------|-----------|------|------------|-----------------------|----------------------|--------------------------|-------------|-----------|-----------------|
| Family: | | | kVA: | | | | Primary \ | /oltage: | Winding Material | /Electrostatio | Shield/ | Sound Le | vel: |
| T - Tribune | | | kVA | Rating 7 | 7.5 - 660 | kVA* | <u>3PH</u> | | Thermostat: | | | | |
| | | | Ava | ilable up | to 990k | :VA | В | 208D | U - AL + Shield + 1 | • | fault) | | dard* (default) |
| Type: | | | | | | | C | 230D | M - CU + Shield + | Thermostat | | 3 = -3 c | |
| E - High Effi | ciency (NRCa | an) | 7.5 | cVA^1 | 000 | 7 | D | 240D | | | | 5 = -5 c | ∄B |
| | | | 11k | VA^1 | 001 | 1 | G H | 380D 400D | Temperature Rise | (220°C Insul | ation | 8 = -8 c | ∄B |
| | | | 14k | VA^1 | 001 | 4 | | 460D* | Class standard for | all drive isol | lation | | |
| Generation: | | | 20k | :VA | 002 | 0 | K | 480D* | offers): | | | Special D | uty: |
| 3 - 2018 NR | Can Efficienc | :y | 27k | :VA | 002 | 7 | N | 575D* | B - 80°C | | | None = I | |
| | | | 34k | :VA | 003 | 4 | Р | 600D | F - 115°C | | | D = Land | |
| Phase (Pri-S | ec)¹: | | 40k | :VA | 004 | 0 | | | G - 130°C | | | M = Mar | ine Duty |
| A - 3PH - De | elta-Wye-N | | 51k | :VA | 005 | 1 | Secondar | y Voltage: | H - 150°C* (default) | | | | |
| | - | | 63k | :VA | 006 | 3 | <u>3PH</u> | | | | | | |
| | | | 75k | :VA | 007 | 5 | В | 208Y/120 | Enclosure: | | | | |
| | | | 93k | | 009 | | C | 230Y/133* | A - Type 1 | F - Type 4 ¹ | | | |
| | | | | kVA | 011 | | D | 240Y/139 | B - Type 2 | G - Type 4X | - | | |
| | | | | kVA | 014 | | G H | 380Y/220* 400Y/231 | C - Type 3R* (defau | . ,, | - | | |
| | | | | kVA | 017 | | 1 | 460Y/266* | D - Type 3RE | K - Type 12 ¹ | | | |
| | | | |)kVA | 022 | | K | 480Y/277* | E - Type 3RX | X - None (Co | ore & Coil) | | |
| | | | | /k V Δ : L\/Δ | 022 | | N | 575Y/332* | | | | | |

600Y/347

Sec. Volt.

Pri. Volt.

Winding Material/

Electrostatic Shield

Temp. Rise &

Insul. Class

Sound

Level

Enclosure

Special

. Duty

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

330kVA

440kVA

550kVA

660kVA

770kVA

880kVA

990kVA

Support & Resources

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

0330

0440

0550

0660

0770

0880

0990



Current Calculator

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





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



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.

Easy-To-Access Installation Manuals



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

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

 $^{^{\}rm 1}$ Outside of NRCan scope - non-energy efficient product provided unless otherwise specified

Selection Tables

HPS Tribune E Energy Efficient Drive Isolation



ALUMINUM WOUND, THREE PHASE





460 Delta Primary Volts

230Y/133 Secondary Volts

| kVA | Catalog | Case | Ар | prox. Dimensi (Inches) | ons | Approx. Weight | Mtg Type W - Wall | Wiring |
|-----|------------|-------|-------|---------------------------|--------|-------------------|----------------------|---------|
| | Number | Style | Width | Depth | Height | (Lbs.) | F - Floor | 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 | • | prox. Dimensi (Inches) | Approx. Weight | Mtg Type W - Wall | Wiring Diagram | |
|-----|-------------------|---------------|-------|---------------------------|-------------------|----------------------|-------------------|---------|
| | Hamber | Style | Width | Depth | Height | (Lbs.) | F - Floor | 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 | Ap Width | prox. Dimensi (Inches) Depth | ons 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 | Case | Ар | prox. Dimensi (Inches) | ons | Approx. Weight | Mtg Type W - Wall | Wiring |
|-----|------------|-------|-------|---------------------------|--------|-------------------|----------------------|---------|
| | Number | Style | Width | Depth | Height | (Lbs.) | F - Floor | 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 | Case | Δ | Approx. Dimension (Inches) | 15 | Approx. Weight | Mtg Type W - Wall | Wiring |
|-----|------------|-------|-------|-------------------------------|--------|-------------------|----------------------|---------|
| | Number | Style | Width | Depth | Height | (Lbs.) | F - Floor | 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 | | prox. Dimensi (Inches) | | Approx. Weight (Lbs.) | Mtg Type W - Wall F - Floor | Wiring Diagram |
|-----|-------------------|---------------|-------|---------------------------|--------|-----------------------------|-----------------------------------|-------------------|
| | | | Width | Depth | Height | | | |
| 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.



ALUMINUM WOUND, THREE PHASE





575 Delta Primary Volts

575Y/332 Secondary Volts

60 Hz

| kVA | Catalog | Case | Ар | prox. Dimensi (Inches) | ons | Approx. Weight | Mtg Type W - Wall | Wiring |
|-----|------------|-------|-------|---------------------------|--------|-------------------|----------------------|---------|
| | Number | Style | Width | Depth | Height | (Lbs.) | F - Floor | 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

₽ (UL

460 Delta Primary Volts

230Y/133 Secondary Volts

60 Hz

| kVA | Catalog | Case | 1 | Approx. Dimension (Inches) | IS | Approx. Weight | Mtg Type W - Wall | Wiring |
|---------|-------------|-------|-------|-------------------------------|--------|-------------------|----------------------|---------|
| K V / C | Number | Style | Width | Depth | Height | (Lbs.) | F - Floor | 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 | Case | Ар | prox. Dimensi (Inches) | ons | Approx. Weight | Mtg Type W - Wall | Wiring |
|-----|-------------|-------|-------|---------------------------|--------|-------------------|----------------------|---------|
| | Number | Style | Width | Depth | Height | (Lbs.) | F - Floor | 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.

Selection Tables

HPS Tribune E Energy Efficient Drive Isolation

COPPER WOUND, THREE PHASE





480 Delta Primary Volts

380Y/220 Secondary Volts

| kVA | kVA Catalog Number | | Ар | prox. Dimensi (Inches) | ons | Approx. Weight | Mtg Type W - Wall | Wiring |
|-----|-----------------------|-------|-------|---------------------------|--------|-------------------|----------------------|---------|
| | Number | Style | Width | Depth | Height | (Lbs.) | F - Floor | 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 | Ар | prox. Dimensio (Inches) | ons | Approx. Weight | Mtg Type W - Wall | Wiring |
|-----------------------|-------------|-------|-------|----------------------------|--------|-------------------|----------------------|---------|
| | Number | Style | Width | Depth | Height | (Lbs.) | F - Floor | 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 | | prox. Dimensi (Inches) | | Approx. Weight | Mtg Type W - Wall | Wiring Diagram |
|-----|-------------------|---------------|-------|---------------------------|--------|-------------------|----------------------|-------------------|
| | | | Width | Depth | Height | (Lbs.) | F - Floor | - J |
| 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.



COPPER WOUND, THREE PHASE





575 Delta Primary Volts

460Y/266 Secondary Volts

| kVA | kVA Catalog Number | | | prox. Dimensi (Inches) | | Approx. Weight | Mtg Type W - Wall | Wiring Diagram |
|-----|-----------------------|-------|-------|---------------------------|--------|-------------------|----------------------|-------------------|
| | | Style | Width | Depth | Height | (Lbs.) | F - Floor | |
| 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 | Ap | prox. Dimensio (Inches) | ons | Approx. Weight | Mtg Type W - Wall | Wiring |
|-----------------------|-------------|-------|-------|----------------------------|--------|-------------------|----------------------|---------|
| | Number | Style | Width | Depth | Height | (Lbs.) | F - Floor | 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

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% | | | | |
| 27 | 98.16% | 2-6.5% | 12 to 15 | | |
| 34 | 98.28% | 2-0.5% | 12 (0 15 | | |
| 40 | 98.34% | | | | |
| 51 | 98.44% | | | | |
| 63 | 98.52% | | | | |
| 75 | 98.60% | | | | |
| 93 | 98.67% | | | | |
| 118 | 98.75% | 2-6.5% | 10 to 12 | | |
| 145 | 98.82% | | | | |
| 175 | 98.87% | | | | |
| 220 | 98.93% | | | | |
| 275 | 98.99% | | | | |
| 330 | 99.04% | 4-7% | 8 to 10 | | |
| 440 | 99.10% | 4-7% | 0 10 10 | | |
| 550 | 99.16% | 4-7.5% | 8 to 10 | | |
| 660 | 99.20% | 4-7.5% | 8 10 10 | | |

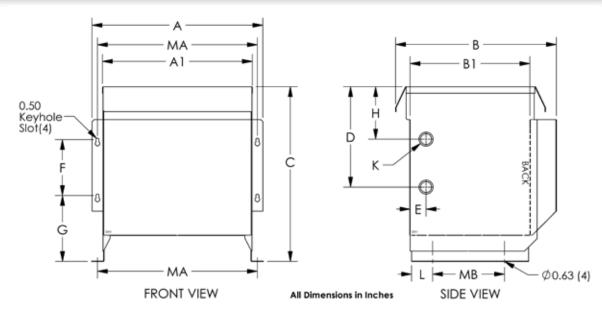
Performance Data

Note: Typical Performance Data is Available Upon Request.

Enclosure Drawings

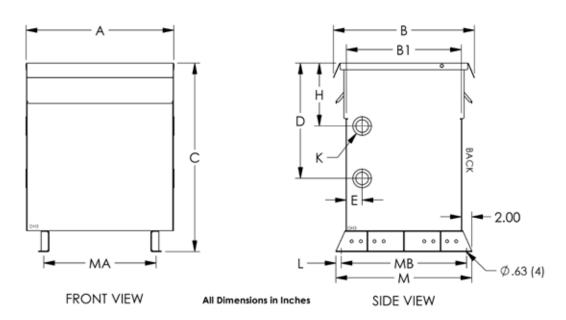
DH Series





| | | | | | | | | mensions in Inches | | | | | | | |
|------------|-----------------|------|------|-----------|------|------|---|--------------------|------|-----|------------------|-----|------|----|--|
| Case Style | Case Style A | A1 | В | B1 | C | D | E | F | G | Н | K | L | MA | МВ | |
| 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.

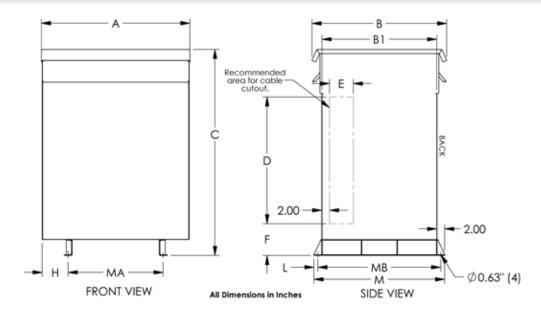


| Coco Stulo | | Dimensions in Inches | | | | | | | | | | | |
|------------|------|----------------------|------|------|------|---|------|------------------|---|------|------|------|--|
| Case Style | Α | В | B1 | C | D | E | н | K | L | M | MA | MB | |
| DH3 | 28.3 | 27 | 22 | 36 | 22 | 3 | 12 | 2.00 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.

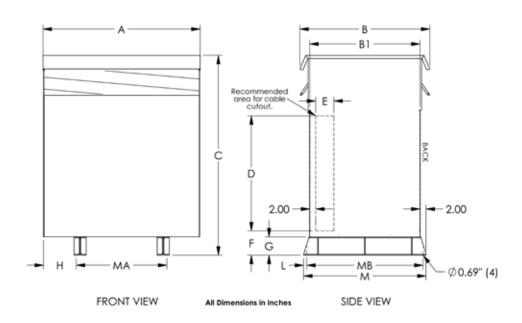
Enclosure Drawings

DH Series



| Case Style | | | 1 | | Di | mension | s in Incl | nes | | | | |
|------------|----|----|----|----|----|---------|-----------|-----|---|----|----|----|
| case style | Α | В | B1 | C | D | E | F | Н | 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.



| Casa Stula | Dimensions in Inches | | | | | | | | | | | | |
|------------|----------------------|----|-----------|----|----|---|----|---|-----|---|----|----|----|
| Case Style | Α | В | B1 | C | D | E | F | G | н | L | М | 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.

Enclosure Mounting Kits



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.

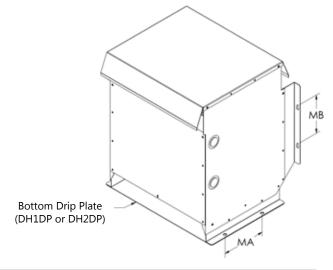
| Enclosure Case Style | Wall Mount Available | Ceiling Mount Available | HPS Mounting Kit P/N |
|-------------------------|-------------------------|-------------------------------|----------------------------|
| DH1 | Yes | Yes | DH1DP |
| DH2 | Yes | Yes | DH2DP |
| DH3 | Yes | Yes | DW3 |
| DH4 | 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.



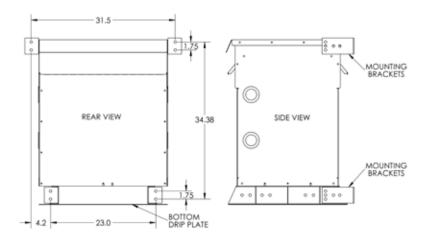
| Mounting Kit P/N | Enclosure Style | MA Dimension | MB Dimension |
|---------------------|--------------------|-----------------|-----------------|
| DH1DP | DH1 | 9.00 | 7.00 |
| DH2DP | DH2 | 9.00 | 8.00 |

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.

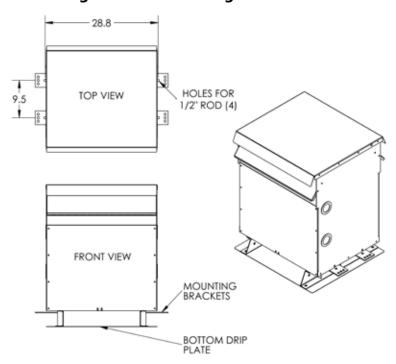
DW3 Wall Mount Dimensions



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



Anti-Vibration Pad & Vibration Isolator Kits



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 |
| PD2 | DH6-DH8 | the standard steel enclosure washers. |



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 | | | |
| NMP2 | 341 to 680 lbs | | | |
| NMP3 | 681 to 1040 lbs | Set of four (4) molded neoprene and steel plate | | |
| NMP4 | 1041 to 1740 lbs | assemblies that virtually eliminate vibration noise between the transformer and the mounting surface. | | |
| 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.

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

Electrical Schematics & Connection Drawings



SCD 9

| SCHEMATIC | | CONNECT | TIONS | |
|---|-----------|-----------------|-------------------|---------------|
| | % Voltage | Primary Volts | Connect lines to | Inter-connect |
| X2 \ | 105.0% | 483 504 604 | H1, H2, H3 | 1 |
| H2 H2 | 102.5% | 472 492 589 | H1, H2, H3 | 2 |
| 5 | 100.0% | 460 480 575 | H1, H2, H3 | 3 |
| H1 V | 97.5% | 449 468 61 | H1, H2, H3 | 4 |
| /mmmm \\ \tag{\chi} \\ \c | 95.0% | 437 456 546 | H1, H2, H3 | 5 |
| H3 | | 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 | | CONNECT | IONS | |
|---|-----------|---------------------|-------------------|---------------|
| | % Voltage | Primary Volts | Connect lines to | Inter-connect |
| H2 ↑ X2 、 | 105.0% | 483 504 604 630 | H1, H2, H3 | 1-2 |
| 1 _ 6 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | 102.5% | 472 492 589 615 | H1, H2, H3 | 2-3 |
| | 100.0% | 460 480 575 600 | H1, H2, H3 | 3-4 |
| $\frac{1}{3}$ \times | 97.5% | 449 468 561 585 | H1, H2, H3 | 4-5 |
|) / (X1 | 95.0% | 437 456 546 570 | H1, H2, H3 | 5-6 |
| H1 ~ H3 | | Secondary Volts | Connect lines to | Inter-connect |
| \cup | | 208 230 460 480 575 | X1, X2, X3 | |
| | | 120 133 266 277 332 | X1,X0 X2,X0 X3,X0 | |









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