

HPS TrafoLeon™ Distribution Transformer

power to perform

HPS TrafoLeon™

Energy Efficient Distribution Transformer

HPS TrafoLeon Series has been designed for the Mexico market based on industry leading technologies and materials to meet your most demanding applications. HPS TrafoLeon G and K energy efficient distribution transformers are compliant with NMX-J-351-ANCE-2016 standard, offering energy savings to our customers and positive societal/environmental benefits. For a lower efficiency distribution transformer option, please refer to HPS Express L.

HPS TrafoLeon G

General Purpose Distribution Transformer

General purpose distribution transformers are rated for 600 volts and below. They are generally used for supplying appliances, lighting, heating, motorized machine and power loads from electrical distribution systems. They are offered in a variety of enclosure types or as core & coil only.

HPS TrafoLeon K

K-Factor Distribution Transformer

The use of k-factor distribution transformers has become a popular means of supplying power for non-linear loads such as electronic ballasts, variable speed drives, personal computers, telecommunications equipment, broadcasting equipment and other similar power electronics. These k-rated transformers have been specifically designed to prevent failure due to overheating.

Energy Efficiency Levels

HPS TrafoLeon meets the following efficiency levels:

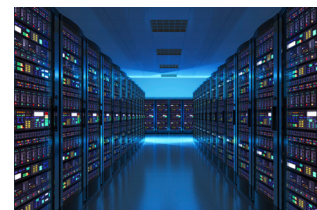
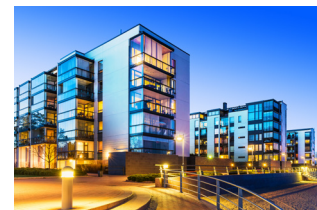
Single Phase		Three Phase	
kVA	Efficiency (%)	kVA	Efficiency (%)
15	97.70	15	97.00
25	98.00	30	97.50
37.5	98.20	45	97.70
50	98.30	75	98.00
75	98.50	112.5	98.20
100	98.60	150	98.30
167	98.70	225	98.50
250	98.80	300	99.60
333	98.90	500	98.70
		750	98.80
		1000	98.90

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

OUR EXPERIENCE

HPS is the largest manufacturer of dry-type transformers in North America with over 100 years of experience. We engineer and manufacture a wide range of standard and custom transformers that are exported globally in electrical equipment and systems. We support industries such as oil and gas, mining, steel, waste and water treatment, and solar power generation.

HPS leads the industry in these markets through our technical design strength, breadth of product and manufacturing capabilities in Mexico, USA, Canada and Asia.



Benefits

- HPS TrafoLeon™ Series offers significant energy savings and environmental benefits
- Standard Type 3R enclosure suitable for indoor and many outdoor applications
- Expanded catalog product offering - up to 1000kVA
- 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 the choice of 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

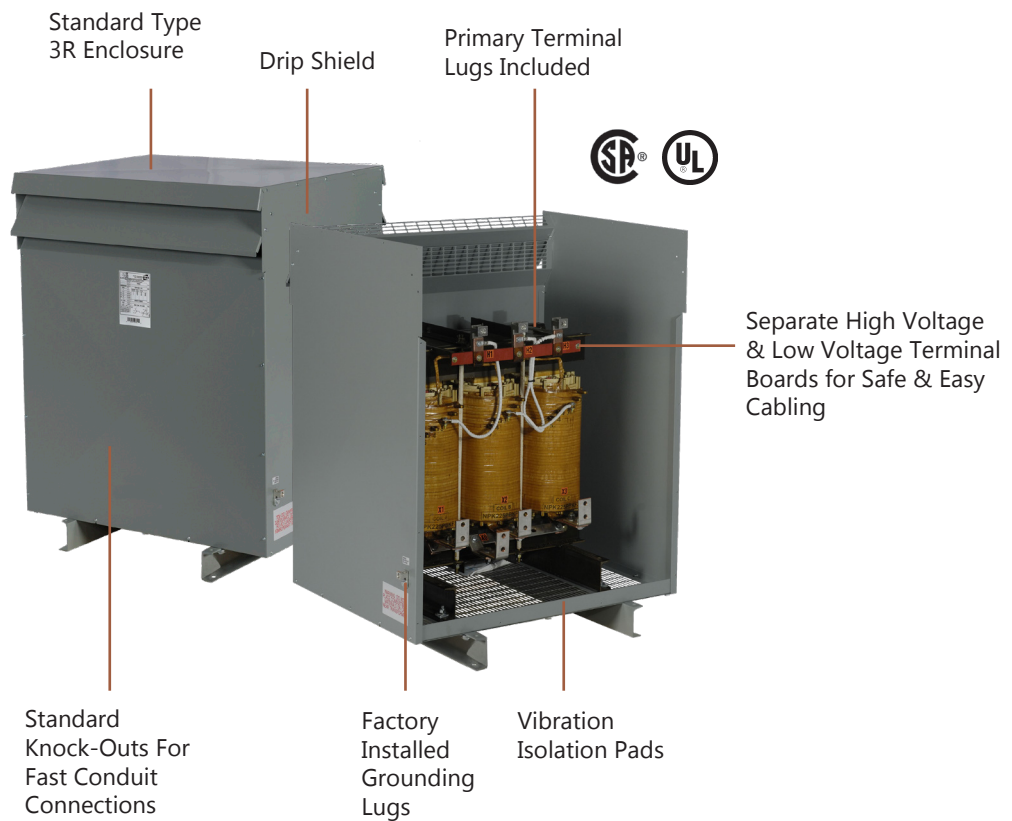
Installation made fast & easy!

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

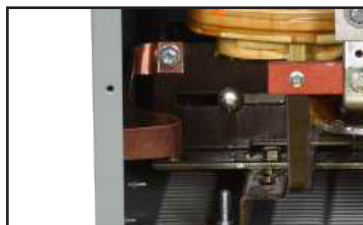


Testing

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



Integrated wall mounting brackets for added convenience at no extra cost for applicable kVAs



Factory installed main grounding lugs



Bottom cable entry area where applicable

HPS TrafoLeon™

Energy Efficient Distribution Transformer

Specifications & Accessories - Copper or Aluminum



STANDARD SPECIFICATIONS

kVA:	15-333 kVA (Single Phase) 15-1000 kVA (Three Phase)
Efficiency:	NMX-J-351-1-ANCE-2016 standard
UL Listed:	File: E112313
CSA Certified:	File: LR3902
Frequency:	60 Hz
Insulation System:	220°C (150°C rise) (Optional 115°C & 80°C rise available)
Enclosure Type:	Heavy duty ventilated Type 3R standard [optional Type 4, 4X (stainless steel) & 12]
Enclosure Finish:	ANSI 61 Grey, UL50
Standard Primary Taps:	Refer to wiring diagrams for details

Optional Accessories:

- Thermal sensing & indication
- Thermometers (analog/digital)
- Thermostat alarm / trip (N.O. /N.C. contacts)
- Electrostatic shielding
- Rated to handle current harmonics [K4] [K9] [K13]
- Strip heater (Space heater to prevent condensation)
- Surge protection devices
- Type 3R or 4 available in stainless steel

Termination:	Front accessible separate high and low voltage terminals; connectors suitable for aluminum and copper are provided for easy cable installation (exceptions apply)
Conduit Entry:	Side knock-outs standard on all units; Bottom entry provision (exceptions apply)
Impedance:	Typically 2.5% to 6.5%
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: $z/h = 0$. Please contact HPS for more information on seismic compliances
Sound Level:	Meets NEMA ST-20 standards (optional low noise units available)
Warranty:	10 years

HPS TrafoLeon G Part Number Guide

Example

TMK	kVA			Pri. Volt.	Sec. Volt.	Winding Material/ Electrostatic Shield	Temp. Rise	Enclosure	Sound Level
	0	4	5	K	B	K	B	3	L5
Family: TMF = Single Phase, General Purpose TMK = Three Phase, General Purpose	kVA:					Winding Material/Electrostatic Shield:			Sound Level:
	<u>1PH</u>		<u>3PH</u>			A - Aluminum* S - Aluminium + Shield C - Copper K - Copper + Shield			HPS Std - L0* 3db - L3 5db - L5
	15	015	15	015					
	25	025	30	030					
	37.5	037	45	045					
	50	050	75	075					
	75	075	112.5	112					
	100	100	150	150					
	150	150	225	225					
	167	167	300	300					
			500	500					
			750	750					
			1000	1000					
	Primary Voltage		Secondary Voltage						
	<u>1PH</u>		<u>3PH</u>		<u>1PH</u>	<u>3PH</u>	Type 3R - 3* Type 4 - 4 Type 4X (304) - 6 Type 4X (316) - 7 Type 12 - 5 None - 0		
	B 208		B 208D		E 120/240	B 208Y/120			
	F 277		D 240D		A 120	G 380Y/220			
	W 347		G 380D/120			K 480Y/277			
	H 416		K 480D /277			P 600Y/347			
	L 240 X 480		P 600D/347			Y 380Y/220,			
	K 480		H 416D			400Y/231,			
P 600					416Y/240,				
X 200 X 440,208 X 416,					430Y/248				
200 X 400,190 X 380									

* Default options- ignore if all following characters are default values

** For non ventilated enclosures the part number prefix will change to "MK" or "MF" and not covered under NMX-J-351-ANCE-2016 standard

HPS TrafoLeon K Part Number Guide

Example

TMT	K-Factor	kVA			Pri. Volt.	Sec. Volt.	Winding Material/ Electrostatic Shield	Temp. Rise	Enclosure	Sound Level
	13K	0	4	5	K	B	A	H	3	L3
Family:		kVA:					Winding Material/Electrostatic Shield:			Sound Level:
TMT = K-Factor		<u>3PH</u>					S - Aluminium + Shield			HPS Std - L0*
K-Factor Rating:		15 015					K - Copper + Shield			3db - L3
K4 = 04K		30 030					Temperature Rise (Deg. C.)			5db - L5
K9 = 09K		45 045					B - 80°C			
K13 = 13K		75 075					F - 115°C			
K20 = 20K		112.5 112					H - 150°C*			
		150 150					Enclosure**:			
		225 225					Type 3R - 3*			
		300 300					Type 4 - 4			
		500 500					Type 4X (304) - 6			
		750 750					Type 4X (316) - 7			
		1000 1000					Type 12 - 5			
		Primary Voltage		Secondary Voltage			None - 0			
		<u>3PH</u>		<u>3PH</u>						
		B 208		B 208Y/120						
		D 240		G 380Y/120						
		H 416		K 480Y/277						
		K 480		P 600Y/347						
		P 600		Y 380Y/220, 400Y/231, 416Y/240, 430Y/248						

* Default options- ignore if all following characters are default values

** For non-ventilated enclosures the part number prefix will change to "MT" and is not covered under NMX-J-351-ANCE-2016 standard

Selection Tables

HPS TrafoLeon™ G

General Purpose Distribution



ALUMINUM WOUND, SINGLE PHASE

240 X 480 Primary Volts

120/240 Secondary Volts

60 Hz

kVA	Catalog Number	Case Style	Approx. Dimensions Inches [mm]			Approx. Weight Lbs. [kg]	Mtg Type W - Wall F - Floor	Wiring Diagram
			Width	Depth	Height			
15	TMF015LE	NH5	19.40 [493]	20.20 [513]	21.50 [546]	170 [77]	F or W*	SCD 34
25	TMF025LE	NH6	23.90 [607]	25.00 [635]	28.75 [730]	220 [100]	F or W*	SCD 17
37.5	TMF037LE	NH6	23.90 [607]	25.00 [635]	28.75 [730]	260 [118]	F or W*	SCD 17
50	TMF050LE	NH3	26.00 [660]	25.00 [635]	38.00 [965]	370 [168]	F or W*	SCD 17
75	TMF075LE	NH3	26.00 [660]	25.00 [635]	38.00 [965]	500 [227]	F	SCD 17
100	TMF100LE	NH4	32.00 [813]	29.50 [749]	41.00 [1041]	650 [295]	F	SCD 17
150	TMF150LE	NJ4	32.00 [813]	32.50 [825]	50.00 [1270]	850 [385]	F	SCD 17
167	TMF167LE	NJ4	32.00 [813]	32.50 [825]	50.00 [1270]	900 [408]	F	SCD 17

For shielded units, please add the suffix "S" to the above part numbers.

*WALL MOUNTING KIT AND/OR DRIP PLATE KIT REQUIRED.

SINGLE PHASE, EXPORT MODEL

190/200/208/220 X 380/400/416/440 Primary Volts

120/240 Secondary Volts

60 Hz

kVA	Catalog Number	Case Style	Approx. Dimensions Inches [mm]			Approx. Weight Lbs. [kg]	Mtg Type W - Wall F - Floor	Wiring Diagram
			Width	Depth	Height			
15	TMF015XE	NH6	23.90 [607]	25.00 [635]	28.75 [730]	190 [86]	F or W*	SCD 30
25	TMF025XE	NH6	23.90 [607]	25.00 [635]	28.75 [730]	240 [109]	F or W*	SCD 30
37.5	TMF037XE	NH6	23.90 [607]	25.00 [635]	28.75 [730]	300 [136]	F or W*	SCD 30
50	TMF050XE	NH3	26.00 [660]	25.00 [635]	38.00 [965]	390 [177]	F or W*	SCD 30
75	TMF075XE	NH3	26.00 [660]	25.00 [635]	38.00 [965]	540 [245]	F	SCD 30
100	TMF100XE	NH4	32.00 [813]	29.50 [749]	41.00 [1041]	700 [317]	F	SCD 30
150	TMF150XE	Please contact your HPS Sales Representative						SCD 30
167	TMF167XE	Please contact your HPS Sales Representative						SCD 30

For shielded units, please add the suffix "S" to the above part numbers.

*WALL MOUNTING KIT AND/OR DRIP PLATE KIT REQUIRED.

ALUMINUM WOUND, THREE PHASE

208 Delta Primary Volts

480Y/277 Secondary Volts

60 Hz

kVA	Catalog Number	Case Style	Approx. Dimensions Inches [mm]			Approx. Weight Lbs. [kg]	Mtg Type W - Wall F - Floor	Wiring Diagram
			Width	Depth	Height			
15	TMK015BK	NH5	19.40 [493]	20.20 [513]	21.50 [546]	200 [91]	F or W*	SCD 40
30	TMK030BK	NH6	23.90 [607]	25.00 [635]	28.75 [730]	280 [127]	F or W*	SCD 26
45	TMK045BK	NH6	23.90 [607]	25.00 [635]	28.75 [730]	375 [170]	F or W*	SCD 26
75	TMK075BK	NH3	26.00 [660]	25.00 [635]	38.00 [965]	540 [245]	F or W*	SCD 26
112.5	TMK112BK	NH3	26.00 [660]	25.00 [635]	38.00 [965]	775 [351]	F	SCD 26
150	TMK150BK	NH4	32.00 [813]	29.50 [749]	41.00 [1041]	850 [385]	F	SCD 26
225	TMK225BK	NH4	32.00 [813]	29.50 [749]	41.00 [1041]	1400 [635]	F	SCD 26
300	TMK300BK	NJ1	39.50 [1003]	34.00 [864]	51.50 [1308]	1850 [839]	F	SCD 26
500	TMK500BK	NJ2	48.50 [1232]	38.40 [975]	59.00 [1499]	2700 [1225]	F	SCD 23
750	TMK750BK	NJ3	51.50 [1308]	43.40 [1102]	66.00 [1676]	3250 [1474]	F	SCD 40

For shielded units, please add the suffix "S" to the above part numbers.

*WALL MOUNTING KIT AND/OR DRIP PLATE KIT REQUIRED.

Selection Tables

HPS TrafoLeon™ G
General Purpose Distribution



ALUMINUM WOUND, THREE PHASE

240 Delta Primary Volts

480Y/277 Secondary Volts

60 Hz

kVA	Catalog Number	Case Style	Approx. Dimensions Inches [mm]			Approx. Weight Lbs. [kg]	Mtg Type W - Wall F - Floor	Wiring Diagram
			Width	Depth	Height			
15	TMK015DK	NH5	19.40 [493]	20.20 [513]	21.50 [546]	200 [91]	F or W*	SCD 40
30	TMK030DK	NH6	23.90 [607]	25.00 [635]	28.75 [730]	280 [127]	F or W*	SCD 26
45	TMK045DK	NH6	23.90 [607]	25.00 [635]	28.75 [730]	375 [170]	F or W*	SCD 26
75	TMK075DK	NH3	26.00 [660]	25.00 [635]	38.00 [965]	540 [245]	F or W*	SCD 26
112.5	TMK112DK	NH3	26.00 [660]	25.00 [635]	38.00 [965]	775 [351]	F	SCD 26
150	TMK150DK	NH4	32.00 [813]	29.50 [749]	41.00 [1041]	850 [385]	F	SCD 26
225	TMK225DK	NH4	32.00 [813]	29.50 [749]	41.00 [1041]	1400 [635]	F	SCD 26
300	TMK300DK	NJ1	39.50 [1003]	34.00 [864]	51.50 [1308]	1700 [771]	F	SCD 26
500	TMK500DK	NJ2	48.50 [1232]	38.40 [975]	59.00 [1499]	2700 [1225]	F	NO TAPS
750	TMK750DK	NJ3	51.50 [1308]	43.40 [1102]	66.00 [1676]	3250 [1474]	F	NO TAPS

For shielded units, please add the suffix "S" to the above part numbers.

*WALL MOUNTING KIT AND/OR DRIP PLATE KIT REQUIRED.

480 Delta Primary Volts

208Y/120 Secondary Volts

60 Hz

kVA	Catalog Number	Case Style	Approx. Dimensions Inches [mm]			Approx. Weight Lbs. [kg]	Mtg Type W - Wall F - Floor	Wiring Diagram
			Width	Depth	Height			
15	TMK015KB	NH5	19.40 [493]	20.20 [513]	21.50 [546]	200 [91]	F or W*	SCD 7
30	TMK030KB	NH6	23.90 [607]	25.00 [635]	28.75 [730]	280 [127]	F or W*	SCD 19
45	TMK045KB	NH6	23.90 [607]	25.00 [635]	28.75 [730]	375 [170]	F or W*	SCD 19
75	TMK075KB	NH3	26.00 [660]	25.00 [635]	38.00 [965]	540 [245]	F or W*	SCD 19
112.5	TMK112KB	NH3	26.00 [660]	25.00 [635]	38.00 [965]	775 [351]	F	SCD 19
150	TMK150KB	NH4	32.00 [813]	29.50 [749]	41.00 [1041]	850 [385]	F	SCD 19
225	TMK225KB	NH4	32.00 [813]	29.50 [749]	41.00 [1041]	1400 [635]	F	SCD 19
300	TMK300KB	NJ1	39.50 [1003]	34.00 [864]	51.50 [1308]	1400 [635]	F	SCD 19
500	TMK500KB	NJ2	48.50 [1232]	38.40 [975]	59.00 [1499]	2150 [975]	F	SCD 20
750	TMK750KB	NJ3	51.50 [1308]	43.40 [1102]	66.00 [1676]	3200 [1451]	F	SCD 20

For shielded units, please add the suffix "S" to the above part numbers.

*WALL MOUNTING KIT AND/OR DRIP PLATE KIT REQUIRED.

480 Delta Primary Volts

240 Delta/120 CT Secondary Volts

60 Hz

kVA	Catalog Number	Case Style	Approx. Dimensions Inches [mm]			Approx. Weight Lbs. [kg]	Mtg Type W - Wall F - Floor	Wiring Diagram
			Width	Depth	Height			
15	TMK015KD	NH5	19.40 [493]	20.20 [513]	21.50 [546]	200 [91]	F or W*	SCD 13
30	TMK030KD	NH6	23.90 [607]	25.00 [635]	28.75 [730]	280 [127]	F or W*	SCD 21
45	TMK045KD	NH6	23.90 [607]	25.00 [635]	28.75 [730]	375 [170]	F or W*	SCD 21
75	TMK075KD	NH3	26.00 [660]	25.00 [635]	38.00 [965]	540 [245]	F or W*	SCD 21
112.5	TMK112KD	NH3	26.00 [660]	25.00 [635]	38.00 [965]	775 [351]	F	SCD 21
150	TMK150KD	NH4	32.00 [813]	29.50 [749]	41.00 [1041]	850 [385]	F	SCD 21
225	TMK225KD	NH4	32.00 [813]	29.50 [749]	41.00 [1041]	1400 [635]	F	SCD 21
300	TMK300KD	NJ1	39.50 [1003]	34.00 [864]	51.50 [1308]	1700 [771]	F	SCD 21
500	TMK500KD	NJ2	48.50 [1232]	38.40 [975]	59.00 [1499]	2700 [1225]	F	SCD 22
750	TMK750KD	NJ3	51.50 [1308]	43.40 [1102]	66.00 [1676]	3250 [1474]	F	SCD 22

For shielded units, please add the suffix "S" to the above part numbers.

*WALL MOUNTING KIT AND/OR DRIP PLATE KIT REQUIRED.

Selection Tables

HPS TrafoLeon™ G

General Purpose Distribution



ALUMINUM WOUND, THREE PHASE

480 Delta Primary Volts 380Y/220, 400Y/231, 416Y/240, 430Y/248 Secondary Volts 60 Hz

kVA	Catalog Number	Case Style	Approx. Dimensions Inches [mm]			Approx. Weight Lbs. [kg]	Mtg Type W - Wall F - Floor	Wiring Diagram
			Width	Depth	Height			
15	TMK015KY	NH6	23.9 [607]	25 [635]	28.75 [730]	170 [77]	F or W*	SCD 52
30	TMK030KY	NH6	23.9 [607]	25 [635]	28.75 [730]	290 [131]	F or W*	SCD 52
45	TMK045KY	NH6	23.9 [607]	25 [635]	28.75 [730]	435 [197]	F or W*	SCD 52
75	TMK075KY	NH3	26.00 [660]	25 [635]	38.00 [965]	550 [249]	F	SCD 52
112.5	TMK112KY	NH3	26.00 [660]	25 [635]	38.00 [965]	755 [342]	F	SCD 52

For shielded units, please add the suffix "S" to the above part numbers.

*WALL MOUNTING KIT AND/OR DRIP PLATE KIT REQUIRED.

600 Delta Primary Volts 208Y/120 Secondary Volts 60 Hz

kVA	Catalog Number	Case Style	Approx. Dimensions Inches [mm]			Approx. Weight Lbs. [kg]	Mtg Type W - Wall F - Floor	Wiring Diagram
			Width	Depth	Height			
15	TMK015PB	NH5	19.40 [493]	20.20 [513]	21.50 [546]	200 [91]	F or W*	SCD 9
30	TMK030PB	NH6	23.90 [607]	25.00 [635]	28.75 [730]	280 [127]	F or W*	SCD 9
45	TMK045PB	NH6	23.90 [607]	25.00 [635]	28.75 [730]	375 [170]	F or W*	SCD 9
75	TMK075PB	NH3	26.00 [660]	25.00 [635]	38.00 [965]	540 [245]	F or W*	SCD 9
112.5	TMK112PB	NH3	26.00 [660]	25.00 [635]	38.00 [965]	775 [351]	F	SCD 9
150	TMK150PB	NH4	32.00 [813]	29.50 [749]	41.00 [1041]	850 [385]	F	SCD 9
225	TMK225PB	NH4	32.00 [813]	29.50 [749]	41.00 [1041]	1400 [635]	F	SCD 9
300	TMK300PB	NJ1	39.50 [1003]	34.00 [864]	51.50 [1308]	1700 [771]	F	SCD 9
500	TMK500PB	NJ2	48.50 [1232]	38.40 [975]	59.00 [1499]	2200 [997]	F	SCD 10
750	TMK750PB	NJ3	51.50 [1308]	43.40 [1102]	66.00 [1676]	3250 [1474]	F	SCD 10

For shielded units, please add the suffix "S" to the above part numbers.

*WALL MOUNTING KIT AND/OR DRIP PLATE KIT REQUIRED.

COPPER WOUND, SINGLE PHASE

240 X 480 Primary Volts 120/240 Secondary Volts 60 Hz

kVA	Catalog Number	Case Style	Approx. Dimensions Inches [mm]			Approx. Weight Lbs. [kg]	Mtg Type W - Wall F - Floor	Wiring Diagram
			Width	Depth	Height			
15	TMF015LEC	NH5	19.40 [493]	20.20 [513]	21.50 [546]	180 [82]	F or W*	SCD 34
25	TMF025LEC	NH6	23.90 [607]	25.00 [635]	28.75 [730]	240 [109]	F or W*	SCD 17
37.5	TMF037LEC	NH6	23.90 [607]	25.00 [635]	28.75 [730]	300 [136]	F or W*	SCD 17
50	TMF050LEC	NH3	26.00 [660]	25.00 [635]	38.00 [965]	375 [170]	F or W*	SCD 17
75	TMF075LEC	NH3	26.00 [660]	25.00 [635]	38.00 [965]	525 [238]	F	SCD 17
100	TMF100LEC	NH4	32.00 [813]	29.50 [749]	41.00 [1041]	650 [295]	F	SCD 17
150	TMF150LEC	NJ4	32.00 [813]	32.50 [825]	50.00 [1270]	900 [408]	F	SCD 17
167	TMF167LEC	NJ4	32.00 [813]	32.50 [825]	50.00 [1270]	1000 [453]	F	SCD 17

For shielded units, please add the suffix "S" to the above part numbers.

*WALL MOUNTING KIT AND/OR DRIP PLATE KIT REQUIRED.

Selection Tables

HPS TrafoLeon™ G
General Purpose Distribution



COPPER WOUND, SINGLE PHASE SINGLE PHASE, EXPORT MODEL

240 X 480 Primary Volts

120/240 Secondary Volts

60 Hz

kVA	Catalog Number	Case Style	Approx. Dimensions Inches [mm]			Approx. Weight Lbs. [kg]	Mtg Type W - Wall F - Floor	Wiring Diagram
			Width	Depth	Height			
15	TMF015XEC	NH6	23.90 [607]	25.00 [635]	28.75 [730]	190 [86]	F or W*	SCD 30
25	TMF025XEC	NH6	23.90 [607]	25.00 [635]	28.75 [730]	240 [109]	F or W*	SCD 30
37.5	TMF037XEC	NH6	23.90 [607]	25.00 [635]	28.75 [730]	300 [136]	F or W*	SCD 30
50	TMF050XEC	NH3	26.00 [660]	25.00 [635]	38.00 [965]	390 [177]	F or W*	SCD 30
75	TMF075XEC	NH3	26.00 [660]	25.00 [635]	38.00 [965]	540 [245]	F	SCD 30
100	TMF100XEC	NH4	32.00 [813]	29.50 [749]	41.00 [1041]	700 [317]	F	SCD 30
150	TMF150XEC	Please contact your HPS Sales Representative					F	SCD 30
167	TMF167XEC	Please contact your HPS Sales Representative					F	SCD 30

For shielded units, please add the suffix "S" to the above part numbers.

*WALL MOUNTING KIT AND/OR DRIP PLATE KIT REQUIRED.

COPPER WOUND, THREE PHASE

208 Delta Primary Volts

480Y/277 Secondary Volts

60 Hz

kVA	Catalog Number	Case Style	Approx. Dimensions Inches [mm]			Approx. Weight Lbs. [kg]	Mtg Type W - Wall F - Floor	Wiring Diagram
			Width	Depth	Height			
15	TMK015BKCN	NH5	19.40 [493]	20.20 [513]	21.50 [546]	200 [91]	F or W*	SCD 40
30	TMK030BKC	NH6	23.90 [607]	25.00 [635]	28.75 [730]	300 [136]	F or W*	SCD 26
45	TMK045BKC	NH6	23.90 [607]	25.00 [635]	28.75 [730]	400 [181]	F or W*	SCD 26
75	TMK075BKC	NH3	26.00 [660]	25.00 [635]	38.00 [965]	600 [272]	F or W*	SCD 26
112.5	TMK112BKC	NH3	26.00 [660]	25.00 [635]	38.00 [965]	850 [385]	F	SCD 26
150	TMK150BKC	NH4	32.00 [813]	29.50 [749]	41.00 [1041]	975 [442]	F	SCD 26
225	TMK225BKC	NH4	32.00 [813]	29.50 [749]	41.00 [1041]	1500 [680]	F	SCD 26
300	TMK300BKC	NJ1	39.50 [1003]	34.00 [864]	51.50 [1308]	1850 [839]	F	SCD 26
500	TMK500BKC	NJ2	48.50 [1232]	38.40 [975]	59.00 [1499]	2800 [1270]	F	SCD 23
750	TMK750BKC	NJ3	51.50 [1308]	43.40 [1102]	66.00 [1676]	3550 [1610]	F	SCD 23

For shielded units, please replace the suffix "C" with "K" on the above part numbers.

*WALL MOUNTING KIT AND/OR DRIP PLATE KIT REQUIRED.

240 Delta Primary Volts

480Y/277 Secondary Volts

60 Hz

kVA	Catalog Number	Case Style	Approx. Dimensions Inches [mm]			Approx. Weight Lbs. [kg]	Mtg Type W - Wall F - Floor	Wiring Diagram
			Width	Depth	Height			
15	TMK015DKC	NH5	19.40 [493]	20.20 [513]	21.50 [546]	200 [91]	F or W*	SCD 40
30	TMK030DKC	NH6	23.90 [607]	25.00 [635]	28.75 [730]	300 [136]	F or W*	SCD 26
45	TMK045DKC	NH6	23.90 [607]	25.00 [635]	28.75 [730]	400 [181]	F or W*	SCD 26
75	TMK075DKC	NH3	26.00 [660]	25.00 [635]	38.00 [965]	600 [272]	F or W*	SCD 26
112.5	TMK112DKC	NH3	26.00 [660]	25.00 [635]	38.00 [965]	850 [385]	F	SCD 26
150	TMK150DKC	NH4	32.00 [813]	29.50 [749]	41.00 [1041]	975 [442]	F	SCD 26
225	TMK225DKC	NH4	32.00 [813]	29.50 [749]	41.00 [1041]	1500 [680]	F	SCD 26
300	TMK300DKC	NJ1	39.50 [1003]	34.00 [864]	51.50 [1308]	1850 [839]	F	SCD 26
500	TMK500DKC	NJ2	48.50 [1232]	38.40 [975]	59.00 [1499]	2800 [1270]	F	NO TAPS
750	TMK750DKC	NJ3	51.50 [1308]	43.40 [1102]	66.00 [1676]	3550 [1610]	F	NO TAPS

For shielded units, please replace the suffix "C" with "K" on the above part numbers.

*WALL MOUNTING KIT AND/OR DRIP PLATE KIT REQUIRED.

Selection Tables

HPS TrafoLeon™ G

General Purpose Distribution



COPPER WOUND, THREE PHASE

480 Delta Primary Volts

208Y/120 Secondary Volts

60 Hz

kVA	Catalog Number	Case Style	Approx. Dimensions Inches [mm]			Approx. Weight Lbs. [kg]	Mtg Type W - Wall F - Floor	Wiring Diagram
			Width	Depth	Height			
15	TMK015KBCN	NH5	19.40 [493]	20.20 [513]	21.50 [546]	200 [91]	F or W*	SCD 7
30	TMK030KBCN	NH6	23.90 [607]	25.00 [635]	28.75 [730]	300 [136]	F or W*	SCD 19
45	TMK045KBC	NH6	23.90 [607]	25.00 [635]	28.75 [730]	400 [181]	F or W*	SCD 19
75	TMK075KBC	NH3	26.00 [660]	25.00 [635]	38.00 [965]	600 [272]	F or W*	SCD 19
112.5	TMK112KBC	NH3	26.00 [660]	25.00 [635]	38.00 [965]	850 [385]	F	SCD 19
150	TMK150KBC	NH4	32.00 [813]	29.50 [749]	41.00 [1041]	975 [442]	F	SCD 19
225	TMK225KBC	NH4	32.00 [813]	29.50 [749]	41.00 [1041]	1500 [680]	F	SCD 19
300	TMK300KBC	NJ1	39.50 [1003]	34.00 [864]	51.50 [1308]	1850 [839]	F	SCD 19
500	TMK500KBC	NJ2	48.50 [1232]	38.40 [975]	59.00 [1499]	2500 [1134]	F	SCD 19
750	TMK750KBC	NJ3	51.50 [1308]	43.40 [1102]	66.00 [1676]	3300 [1497]	F	SCD 19

For shielded units, please replace the suffix "C" with "K" on the above part numbers.

*WALL MOUNTING KIT AND/OR DRIP PLATE KIT REQUIRED.

480 Delta Primary Volts

240 Delta/120 CT Secondary Volts

60 Hz

kVA	Catalog Number	Case Style	Approx. Dimensions Inches [mm]			Approx. Weight Lbs. [kg]	Mtg Type W - Wall F - Floor	Wiring Diagram
			Width	Depth	Height			
15	TMK015KDCN	NH5	19.40 [493]	20.20 [513]	21.50 [546]	200 [91]	F or W*	SCD 13
30	TMK030KDCN	NH6	23.90 [607]	25.00 [635]	28.75 [730]	300 [136]	F or W*	SCD 21
45	TMK045KDC	NH6	23.90 [607]	25.00 [635]	28.75 [730]	400 [181]	F or W*	SCD 21
75	TMK075KDC	NH3	26.00 [660]	25.00 [635]	38.00 [965]	600 [272]	F or W*	SCD 21
112.5	TMK112KDC	NH3	26.00 [660]	25.00 [635]	38.00 [965]	850 [385]	F	SCD 21
150	TMK150KDC	NH4	32.00 [813]	29.50 [749]	41.00 [1041]	975 [442]	F	SCD 21
225	TMK225KDC	NH4	32.00 [813]	29.50 [749]	41.00 [1041]	1500 [680]	F	SCD 21
300	TMK300KDC	NJ1	39.50 [1003]	34.00 [864]	51.50 [1308]	1850 [839]	F	SCD 21
500	TMK500KDC	NJ2	48.50 [1232]	38.40 [975]	59.00 [1499]	2800 [1270]	F	SCD 22
750	TMK750KDC	NJ3	51.50 [1308]	43.40 [1102]	66.00 [1676]	3550 [1610]	F	SCD 22

For shielded units, please replace the suffix "C" with "K" on the above part numbers.

*WALL MOUNTING KIT AND/OR DRIP PLATE KIT REQUIRED.

600 Delta Primary Volts

208Y/120 Secondary Volts

60 Hz

kVA	Catalog Number	Case Style	Approx. Dimensions Inches [mm]			Approx. Weight Lbs. [kg]	Mtg Type W - Wall F - Floor	Wiring Diagram
			Width	Depth	Height			
15	TMK015PBCN	NH5	19.40 [493]	20.20 [513]	21.50 [546]	200 [91]	F or W*	SCD 9
30	TMK030PBCN	NH6	23.90 [607]	25.00 [635]	28.75 [730]	300 [136]	F or W*	SCD 9
45	TMK045PBC	NH6	23.90 [607]	25.00 [635]	28.75 [730]	400 [181]	F or W*	SCD 9
75	TMK075PBC	NH3	26.00 [660]	25.00 [635]	38.00 [965]	600 [272]	F or W*	SCD 9
112.5	TMK112PBC	NH3	26.00 [660]	25.00 [635]	38.00 [965]	850 [385]	F	SCD 9
150	TMK150PBC	NH4	32.00 [813]	29.50 [749]	41.00 [1041]	975 [442]	F	SCD 9
225	TMK225PBC	NH4	32.00 [813]	29.50 [749]	41.00 [1041]	1500 [680]	F	SCD 9
300	TMK300PBC	NJ1	39.50 [1003]	34.00 [864]	51.50 [1308]	1850 [839]	F	SCD 9
500	TMK500PBC	NJ2	48.50 [1232]	38.40 [975]	59.00 [1499]	2500 [1134]	F	SCD 10
750	TMK750PBC	NJ3	51.50 [1308]	43.40 [1102]	66.00 [1676]	3550 [1610]	F	SCD 10

For shielded units, please replace the suffix "C" with "K" on the above part numbers.

*WALL MOUNTING KIT AND/OR DRIP PLATE KIT REQUIRED.

Selection Tables

HPS TrafoLeon™ K
K-Factor Rated



Hammond
Power Solutions

SHIELDED, THREE PHASE



K-FACTOR 4

480 Delta Primary Volts

208Y/120 Secondary Volts

60 Hz

kVA	Catalog Number	Case Style	Approx. Dimensions Inches [mm]			Approx. Weight Lbs [kg]	Mtg Type W - Wall F - Floor	Wiring Diagram
			Width	Depth	Height			
15	TMT04K015KBS	NH5	19.40 [493]	20.20 [513]	21.50 [546]	190	F or W*	SCD 7
30	TMT04K030KBS	NH6	23.90 [607]	25.00 [635]	28.75 [730]	330	F or W*	SCD 19
45	TMT04K045KBS	NH6	23.90 [607]	25.00 [635]	28.75 [730]	430	F or W*	SCD 19
75	TMT04K075KBS	NH3	26.00 [660]	25.00 [635]	38.00 [965]	640	F or W*	SCD 19
112.5	TMT04K112KBS	NH3	26.00 [660]	25.00 [635]	38.00 [965]	920	F	SCD 19
150	TMT04K150KBS	NH4	32.00 [813]	29.50 [749]	41.00 [1041]	1050	F	SCD 19
225	TMT04K225KBS	NH4	32.00 [813]	29.50 [749]	41.00 [1041]	1575	F	SCD 19
300	TMT04K300KBS	NJ1	39.50 [1003]	34.00 [864]	51.50 [1308]	1830	F	SCD 19
500	TMT04K500KBS	NJ2	48.50 [1232]	38.40 [975]	59.00 [1499]	2150	F	SCD 19
750	TMT04K750KBS	NJ3	51.50 [1308]	43.40 [1102]	66.00 [1676]	3375	F	SCD 19

*WALL MOUNTING KIT AND/OR DRIP PLATE KIT REQUIRED.

600 Delta Primary Volts

208Y/120 Secondary Volts

60 Hz

kVA	Catalog Number	Case Style	Approx. Dimensions Inches [mm]			Approx. Weight Lbs [kg]	Mtg Type W - Wall F - Floor	Wiring Diagram
			Width	Depth	Height			
15	TMT04K015PBS	NH5	19.40 [493]	20.20 [513]	21.50 [546]	190	F or W*	SCD 13
30	TMT04K030PBS	NH6	23.90 [607]	25.00 [635]	28.75 [730]	330	F or W*	SCD 21
45	TMT04K045PBS	NH6	23.90 [607]	25.00 [635]	28.75 [730]	430	F or W*	SCD 21
75	TMT04K075PBS	NH3	26.00 [660]	25.00 [635]	38.00 [965]	640	F or W*	SCD 21
112.5	TMT04K112PBS	NH3	26.00 [660]	25.00 [635]	38.00 [965]	920	F	SCD 21
150	TMT04K150PBS	NH4	32.00 [813]	29.50 [749]	41.00 [1041]	1050	F	SCD 21
225	TMT04K225PBS	NH4	32.00 [813]	29.50 [749]	41.00 [1041]	1575	F	SCD 21
300	TMT04K300PBS	NJ1	39.50 [1003]	34.00 [864]	51.50 [1308]	1830	F	SCD 21
500	TMT04K500PBS	NJ2	48.50 [1232]	38.40 [975]	59.00 [1499]	3000	F	SCD 22
750	TMT04K750PBS	NJ3	51.50 [1308]	43.40 [1102]	66.00 [1676]	3375	F	SCD 22

*WALL MOUNTING KIT AND/OR DRIP PLATE KIT REQUIRED.

480 Delta Primary Volts

208Y/120 Secondary Volts

60 Hz

kVA	Catalog Number	Case Style	Approx. Dimensions Inches [mm]			Approx. Weight Lbs [kg]	Mtg Type W - Wall F - Floor	Wiring Diagram
			Width	Depth	Height			
15	TMT04K015KBKF	NH5	19.40 [493]	20.20 [513]	21.50 [546]	210	F or W*	SCD 9
30	TMT04K030KBKN	NH6	23.90 [607]	25.00 [635]	28.75 [730]	350	F or W*	SCD 9
45	TMT04K045KBK	NH6	23.90 [607]	25.00 [635]	28.75 [730]	460	F or W*	SCD 9
75	TMT04K075KBK	NH3	26.00 [660]	25.00 [635]	38.00 [965]	665	F or W*	SCD 9
112.5	TMT04K112KBK	NH3	26.00 [660]	25.00 [635]	38.00 [965]	945	F	SCD 9
150	TMT04K150KBK	NH4	32.00 [813]	29.50 [749]	41.00 [1041]	1070	F	SCD 9
225	TMT04K225KBK	NH4	32.00 [813]	29.50 [749]	41.00 [1041]	1725	F	SCD 9
300	TMT04K300KBK	NJ1	39.50 [1003]	34.00 [864]	51.50 [1308]	1925	F	SCD 9
500	TMT04K500KBK	NJ2	48.50 [1232]	38.40 [975]	59.00 [1499]	2500	F	SCD 10
750	TMT04K750KBK	NJ3	51.50 [1308]	43.40 [1102]	66.00 [1676]	3300	F	SCD 10

*WALL MOUNTING KIT AND/OR DRIP PLATE KIT REQUIRED.

Typical Performance Data

General Purpose - Three Phase

HPS TrafoLeon G

Aluminum

General Purpose - 600 Volt. Class

kVA	No Load Losses (W)	Load Loss at 75 deg. C (W)	Impedance	Regulation				% Efficiency at different % of rated load 75 deg C reference temp at Unity Power Factor						
				at 35% load		at 100% load		15%	25%	35%	50%	65%	75%	100%
				pf=0.8	pf=1	pf=0.8	pf=1							
15	90	558	5.0%	1.44%	1.30%	4.11%	3.74%	95.64%	96.78%	97.07%	97.03%	97.77%	96.77%	95.85%
30	135	1032	5.5%	1.63%	1.21%	4.65%	3.49%	96.60%	97.41%	97.57%	97.45%	97.16%	96.92%	96.26%
45	160	1625	4.5%	1.29%	1.26%	3.69%	3.62%	97.17%	97.73%	97.77%	97.55%	97.19%	96.92%	96.19%
75	230	2333	4.3%	1.13%	1.09%	3.23%	3.12%	97.55%	98.04%	98.07%	97.88%	97.57%	97.33%	96.70%
112.5	375	2679	3.9%	1.16%	0.84%	3.32%	2.41%	97.49%	98.11%	98.25%	98.18%	97.98%	97.82%	97.36%
150	460	3464	3.5%	1.03%	0.81%	2.93%	2.33%	97.66%	98.23%	98.34%	98.26%	98.07%	97.90%	97.45%
225	660	4245	4.7%	1.38%	0.67%	3.95%	1.97%	97.81%	98.38%	98.52%	98.49%	98.35%	98.23%	97.87%
300	780	5663	6.7%	1.85%	0.68%	5.34%	2.08%	98.02%	98.51%	98.62%	98.56%	98.40%	98.27%	97.90%
500	1400	7264	6.7%	1.77%	0.53%	5.12%	1.66%	97.96%	98.54%	98.71%	98.73%	98.64%	98.56%	96.30%
750	1900	10458	6.7%	1.76%	0.51%	5.09%	1.60%	98.14%	98.66%	98.80%	98.81%	96.72%	98.64%	96.38%

Copper

General Purpose - 600 Volt. Class

kVA	No Load Losses (W)	Load Loss at 75 deg. C (W)	Impedance	Regulation				% Efficiency at different % of rated load 75 deg C reference temp at Unity Power Factor						
				at 35% load		at 100% load		15%	25%	35%	50%	65%	75%	100%
				pf=0.8	pf=1	pf=0.8	pf=1							
15	90	561	5.0%	1.44%	1.31%	4.12%	3.75%	95.64%	96.77%	97.07%	97.02%	96.75%	96.52%	95.84%
30	114	1271	6.3%	1.92%	1.49%	5.49%	4.30%	96.93%	97.49%	97.50%	97.20%	96.77%	96.45%	95.59%
45	200	1349	5.3%	1.58%	1.06%	4.52%	3.06%	96.70%	97.53%	97.73%	97.67%	97.43%	97.24%	96.67%
75	280	1967	5.1%	1.53%	0.93%	4.39%	2.69%	97.20%	97.90%	98.05%	97.98%	97.77%	97.59%	97.09%
112.5	405	2450	4.2%	1.26%	0.77%	3.62%	2.23%	97.35%	98.05%	98.24%	98.22%	98.07%	97.93%	97.52%
150	475	3336	4.1%	1.24%	0.78%	3.54%	2.27%	97.61%	98.21%	98.34%	98.28%	98.10%	97.95%	97.52%
225	725	3738	5.6%	1.56%	0.60%	4.49%	1.80%	97.66%	98.32%	98.52%	98.55%	98.45%	98.35%	96.05%
300	870	4972	5.2%	1.46%	0.59%	4.19%	1.77%	97.66%	98.45%	98.61%	98.61%	98.50%	98.40%	98.09%
500	1250	8513	5.5%	1.55%	0.61%	4.45%	1.83%	98.11%	98.59%	98.71%	98.67%	98.53%	98.42%	98.08%
750	1780	11402	5.8%	1.58%	0.55%	4.54%	1.67%	98.22%	98.69%	98.80%	98.78%	98.66%	98.56%	98.27%

Typical Performance Data

K-Factor Rated - Three Phase



HPS TrafoLeon K

Aluminum

K-Factor - 600 Volt. Class

kVA	No Load Losses (W)	Load Loss at 75 deg. C (W)	Impedance	Regulation				NEMA TP1 CSA C802.2 35% Load 75 deg C	K-factor	% Efficiency at different % of rated load 75 deg C reference temp at Unity Power Factor						
				at 35% load		at 100% load				15%	25%	35%	50%	65%	75%	100%
				pf=0.8	pf=1	pf=0.8	pf=1									
15	85	625	5.7%	1.53%	1.46%	4.37%	4.18%	97.00%	1	97.78%	96.80%	97.01%	96.88%	96.54%	96.26%	95.48%
				1.58%	1.53%	4.52%	4.37%	-	13	95.76%	96.75%	96.95%	96.79%	96.43%	96.13%	95.31%
30	140	1055	5.9%	1.76%	1.24%	5.03%	3.58%	97.50%	1	96.49%	97.33%	97.50%	97.38%	97.08%	96.84%	96.17%
				1.82%	1.32%	5.22%	3.81%	-	13	96.46%	97.27%	97.42%	97.27%	96.94%	96.68%	95.96%
45	230	1147	6.6%	1.92%	0.91%	5.50%	2.71%	97.70%	1	96.35%	97.39%	97.70%	97.76%	97.62%	97.47%	97.03%
				1.96%	0.97%	5.64%	2.89%	-	13	96.32%	97.35%	97.64%	97.67%	97.51%	97.35%	96.87%
75	320	1759	6.6%	1.88%	0.84%	5.41%	2.51%	98.00%	1	96.90%	97.76%	98.00%	98.01%	97.87%	97.73%	97.30%
				1.93%	0.90%	5.55%	2.69%	-	13	96.88%	97.72%	97.94%	97.93%	97.76%	97.60%	97.14%
112.5	430	2373	6.2%	1.77%	0.76%	5.08%	2.26%	98.20%	1	97.22%	97.99%	98.20%	98.21%	98.08%	97.95%	97.57%
				1.81%	0.82%	5.22%	2.44%	-	13	97.19%	97.94%	98.14%	98.13%	97.97%	97.82%	97.40%
150	570	2771	6.5%	1.80%	0.67%	5.20%	2.03%	98.30%	1	97.27%	98.06%	98.30%	98.34%	98.25%	98.14%	97.82%
				1.88%	0.76%	5.40%	2.30%	-	13	97.23%	97.99%	98.21%	98.22%	98.08%	97.95%	97.57%
225	730	3817	6.4%	1.74%	0.62%	5.02%	1.88%	98.50%	1	97.64%	98.31%	98.50%	98.53%	98.42%	98.32%	98.02%
				1.87%	0.77%	5.37%	2.33%	-	13	97.58%	98.20%	98.35%	98.31%	98.14%	98.00%	97.59%
300	920	4673	6.5%	1.75%	0.57%	5.04%	1.75%	98.60%	1	97.77%	98.41%	98.60%	98.63%	98.54%	98.45%	98.17%
				1.94%	0.81%	5.57%	2.43%	-	13	97.67%	98.24%	98.37%	98.30%	98.11%	97.95%	97.52%
500	1360	7743	6.5%	1.75%	0.57%	5.04%	1.74%	98.70%	1	98.00%	98.55%	98.70%	98.70%	98.59%	98.50%	98.21%
				1.97%	0.85%	5.67%	2.54%	-	13	97.88%	98.35%	98.31%	98.31%	98.31%	97.92%	97.44%

Copper

K-Factor - 600 Volt. Class

kVA	No Load Losses (W)	Load Loss at 75 deg C (W)	Impedance	Regulation				NEMA TP1 CSA C802.2 35% Load 75 deg C	K-factor	% Efficiency at different % of rated load 75 deg C reference temp at Unity Power Factor						
				at 35% load		at 100% load				15%	25%	35%	50%	65%	75%	100%
				pf=0.8	pf=1	pf=0.8	pf=1									
15	85	630	5.7%	1.52%	1.47%	4.34%	4.21%	97.00%	1	95.78%	96.79%	97.00%	96.87%	96.52%	96.24%	95.45%
				1.57%	1.54%	4.49%	4.40%	-	13	95.75%	96.75%	96.94%	96.78%	96.41%	96.11%	95.28%
30	135	1094	5.8%	1.73%	1.28%	4.95%	3.71%	97.50%	1	96.57%	97.36%	97.50%	97.35%	97.03%	96.77%	96.06%
				1.81%	1.38%	5.18%	3.99%	-	13	96.53%	97.29%	97.41%	97.21%	96.85%	96.57%	95.80%
45	220	1234	4.7%	1.42%	0.97%	4.05%	2.79%	97.70%	1	96.46%	97.43%	97.70%	97.71%	97.53%	97.36%	96.87%
				1.48%	1.05%	4.23%	3.02%	-	13	96.43%	97.37%	97.62%	97.60%	97.39%	97.20%	96.66%
75	310	1851	4.2%	1.26%	0.87%	3.61%	2.51%	98.00%	1	96.97%	97.78%	98.00%	97.98%	97.81%	97.65%	97.20%
				1.32%	0.94%	3.78%	2.72%	-	13	96.94%	97.73%	97.92%	97.88%	97.68%	97.50%	97.00%
112.5	430	2392	4.0%	1.20%	0.75%	3.43%	2.17%	98.20%	1	97.21%	97.98%	98.20%	98.21%	98.07%	97.94%	97.55%
				1.25%	0.85%	3.58%	2.36%	-	13	97.19%	97.93%	98.13%	98.11%	97.95%	97.80%	97.37%
150	550	2870	3.7%	1.10%	0.67%	3.15%	1.95%	98.30%	1	97.34%	98.09%	98.31%	98.34%	98.22%	98.11%	97.77%
				1.18%	0.77%	3.38%	2.23%	-	13	97.30%	98.02%	98.22%	98.20%	98.05%	97.91%	97.50%
225	710	3935	4.8%	1.38%	0.62%	3.97%	1.84%	98.50%	1	97.69%	98.33%	98.51%	98.52%	98.40%	98.30%	97.98%
				1.53%	0.81%	4.38%	2.37%	-	13	97.61%	98.20%	98.33%	98.26%	98.07%	97.92%	97.47%
300	890	4812	4.5%	1.30%	0.57%	3.73%	1.69%	98.60%	1	97.83%	98.44%	98.61%	98.62%	98.52%	98.43%	98.13%
				1.52%	0.85%	4.36%	2.49%	-	13	97.72%	98.24%	98.34%	98.24%	98.02%	97.85%	97.37%
500	1350	7790	4.5%	1.29%	0.56%	3.71%	1.64%	98.70%	1	98.01%	98.55%	98.70%	98.70%	98.59%	98.49%	98.20%
				1.52%	0.84%	4.34%	2.44%	-	13	97.89%	98.36%	98.43%	98.31%	98.09%	97.91%	97.44%

Typical Impedance & Inrush Current Range

Three Phase

**Primary Delta & Secondary Wye connected, Voltage Range 208 to 600V
HPS TrafoLeon Aluminum or Copper Windings, 80°C to 150°C Temp. Rise**

kVA	Efficiency at 35% of Rated Load, @75°C	Impedance	Peak Inrush Current Multiple of RMS Current
15	97.00%	2.5-6.5%	12 to 20
30	97.50%		
45	97.70%		
75	98.00%		
112.5	98.20%		
150	98.30%		
225	98.50%	4-7.5%	8 to 15
300	98.60%		
500	98.70%		6 to 12
750	98.80%		
1000	99.90%		

Compliant with NMX-J351-1-ANCE-2016 standard

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.



Extensive Inventory

We carry a complete inventory of Distribution Transformers to quickly meet your needs.



Easy-To-Access Installation Manuals

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

TERMINATION DETAILS - TYPE 3R

For standard 150°C temperature rise units.

SINGLE PHASE, ALUMINUM AND COPPER TERMINATION - LUGS OR PADS

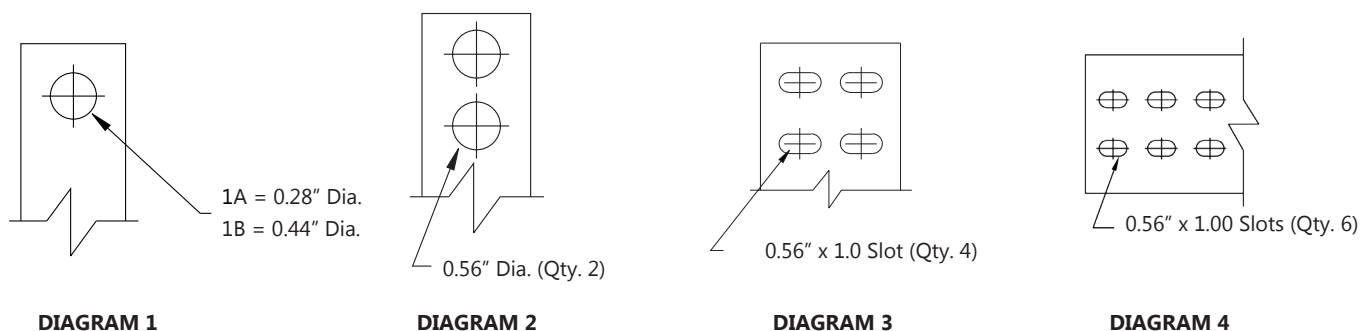
kVA	VOLTAGE									
	120	120/240	208	240	277	347	380	416	480	600
15	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs
25	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs
37.5	Dia. 2	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs
50	Dia. 2	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs
75	Dia. 3	Dia. 2	Dia. 2	Dia. 2	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs
100	Dia. 3	Dia. 2	Dia. 2	Dia. 2	Dia. 2	Dia. 2	Lugs	Lugs	Lugs	Lugs
150	Dia. 3	Dia. 3	Dia. 3	Dia. 3	Dia. 2	Dia. 2	Dia. 2	Dia. 2	Dia. 2	Lugs
167	Dia. 3	Dia. 3	Dia. 3	Dia. 3	Dia. 3	Dia. 2	Dia. 3	Dia. 3	Dia. 3	Dia. 2
250	Dia. 6	Dia. 3	Dia. 3	Dia. 3	Dia. 3	Dia. 3	Dia. 3	Dia. 3	Dia. 3	Dia. 2
333	Dia. 6	Dia. 4	Dia. 4	Dia. 4	Dia. 4	Dia. 4	Dia. 3	Dia. 3	Dia. 3	Dia. 3

THREE PHASE, ALUMINUM AND COPPER TERMINATION - LUGS OR PADS

kVA	VOLTAGE							
	208	230	240	277	380	416	480	600
15	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs
30	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs
45	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs
75	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs
112.5	Lugs*	Dia. 1B	Lugs	Lugs	Lugs	Lugs	Lugs	Lugs
150	Dia. 1B	Dia. 1B	Dia. 1B	Dia. 1B	Lugs	Lugs	Lugs	Lugs
225	Dia. 2	Dia. 1B	Dia. 1B	Dia. 1B	Dia. 1B	Dia. 1B	Lugs	Lugs
300	Dia. 2	Dia. 2	Dia. 2	Dia. 2	Dia. 1B	Dia. 1B	Dia. 1B	Dia. 1B
500	Dia. 3	Dia. 3	Dia. 3	Dia. 3	Dia. 3	Dia. 2	Dia. 2	Dia. 1B
750	Dia. 3	Dia. 3	Dia. 3	Dia. 3	Dia. 3	Dia. 3	Dia. 3	Dia. 2
1000	Dia. 4	Dia. 4	Dia. 4	Dia. 4	Dia. 3	Dia. 3	Dia. 3	Dia. 3

* Lugs only supplied standard on 600V primary to 208Y/120V secondary units. (excluding k-factor transformers)

All other voltages supplied standard with Diagram 1B pads.

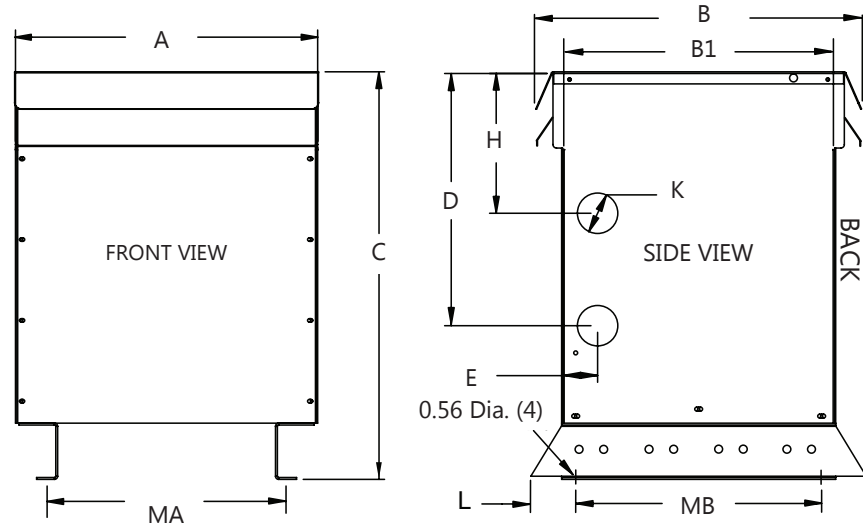


Enclosure Drawings

NH Series

TYPE 3R ENCLOSURE DIMENSIONAL DRAWINGS

'NH' SERIES ENCLOSURES



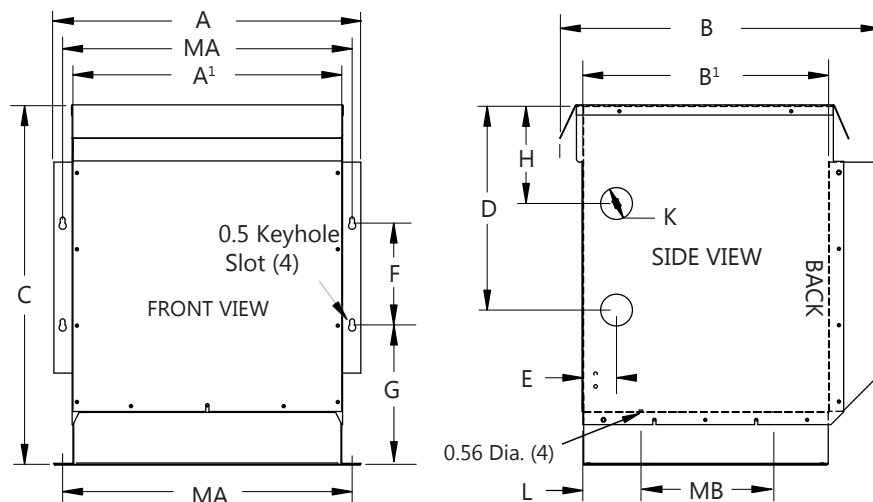
All dimensions in Inches [mm]

Case Style	Dimensions in Inches [mm]										
	A	B	B ¹	C	D	E	H	K ¹	L	MA	MB
NH3	26.00 [660]	25.00 [635]	24.00 [610]	38.00 [965]	24.00 [610]	2.50 [64]	14.00 [356]	2.00 X 3.00 [51 X 76]	2.50 [63]	21.50 [546]	19.00 [483]
NH4	32.00 [813]	29.50 [749]	28.50 [724]	41.00 [1041]	24.00 [610]	2.50 [64]	12.00 [305]	2.00 X 3.00 [51 X 76]	2.50 [63]	23.50 [597]	23.50 [597]

Note: Mounting hole dimension is 0.56" diameter.

Optional Type 4, 12 and Stainless Steel enclosures are available.

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



All dimensions in Inches [mm]

Case Style	Dimensions in Inches [mm]													
	A	A ¹	B	B ¹	C	D	E	F	G	H	K ¹	L	MA	MB
NH5	19.40 [493]	16.75 [425]	20.20 [513]	15.00 [381]	21.50 [546]	12.00 [305]	2.00 [51]	7.00 [178]	7.81 [198]	6.00 [152]	1.38 X 1.75 [35 X 44]	2.80 [71]	18.00 [457]	9.00 [229]
NH6	23.90 [607]	21.50 [546]	25.00 [635]	19.50 [495]	28.75 [730]	17.00 [432]	2.00 [51]	8.00 [203]	10.29 [261]	8.50 [216]	1.38 X 2.50 [35 X 64]	5.20 [132]	22.75 [578]	9.00 [229]

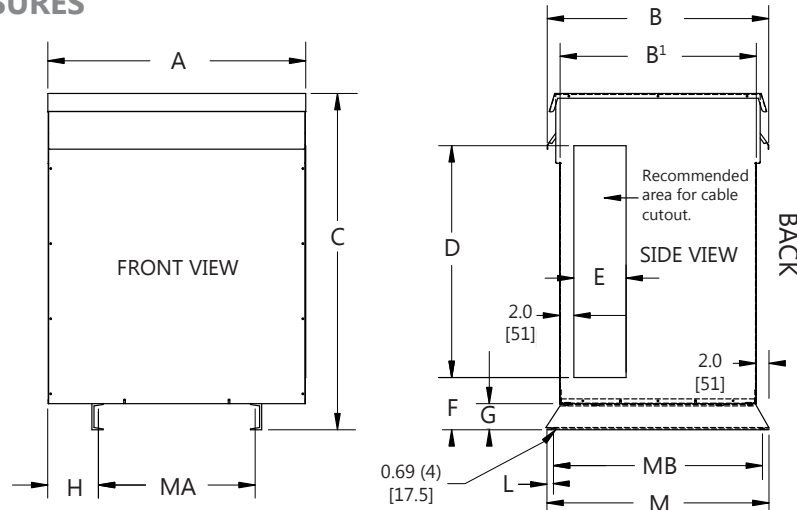
Note: Mounting hole dimension is 0.56" diameter.

Optional Type 4, 12 and Stainless Steel enclosures are available.

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

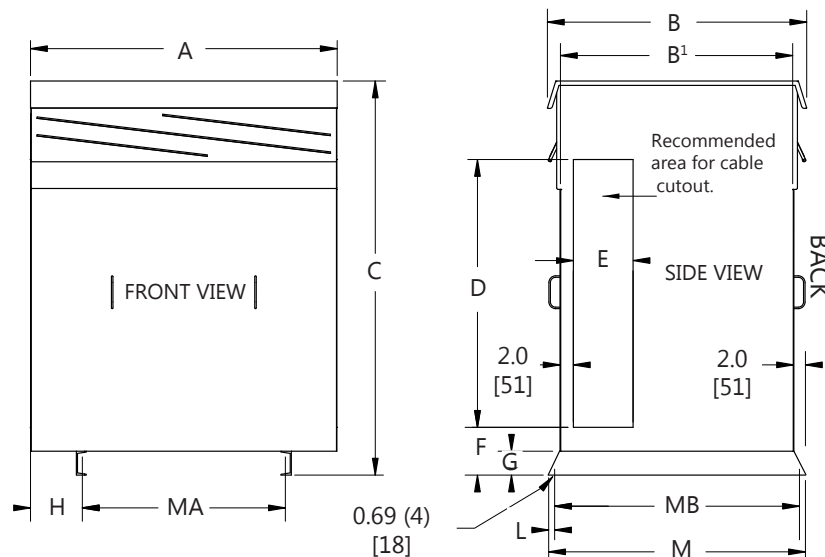
TYPE 3R ENCLOSURE DIMENSIONAL DRAWINGS

'NJ' SERIES ENCLOSURES



All dimensions in Inches [mm]

Case Style	Dimensions in Inches [mm]												
	A	B	B ¹	C	D	E	F	G	H	L	M	MA	MB
NJ1	39.50 [1003]	34.00 [864]	30.00 [762]	51.50 [1308]	35.50 [902]	6.00 [152]	8.00 [203]	4.00 [102]	7.75 [197]	1.00 [25]	34.00 [864]	24.00 [610]	32.00 [813]
NJ2	48.50 [1232]	38.40 [975]	34.00 [864]	59.00 [1499]	40.00 [1016]	8.00 [203]	8.00 [203]	4.00 [102]	10.50 [267]	1.00 [25]	38.00 [965]	27.50 [698]	36.00 [914]
NJ4	32.00 [813]	32.50 [825]	28.50 [724]	50.00 [1270]	34.00 [864]	8.00 [203]	8.00 [203]	4.00 [102]	5.00 [127]	1.00 [25]	32.50 [825]	22.00 [559]	30.50 [775]



All dimensions in Inches [mm]

Case Style	Dimensions in Inches [mm]												
	A	B	B ¹	C	D	E	F	G	H	L	M	MA	MB
NJ3	51.50 [1308]	43.40 [1102]	39.00 [991]	66.00 [1676]	47.00 [1194]	10.00 [254]	8.00 [203]	4.00 [102]	8.75 [222]	1.00 [25]	43.00 [1092]	34.00 [864]	41.00 [1041]
NJ6	64.00 [1626]	44.40 [1128]	40.00 [1016]	71.00 [1803]	50.00 [1270]	11.50 [292]	9.00 [229]	5.00 [127]	12.00 [305]	1.00 [25]	44.00 [1118]	40.00 [1016]	42.00 [1067]
NJ7	64.0 [1626]	51.40 [1305]	47.00 [1194]	75.00 [1905]	54.00 [1372]	11.50 [292]	9.00 [229]	5.00 [127]	12.00 [305]	1.00 [25]	51.00 [1295]	40.00 [1016]	49.00 [1245]

Note: Mounting hole dimension is 0.69 diameter.

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 NW2 wall/ceiling mounting kit also includes a drip plate.

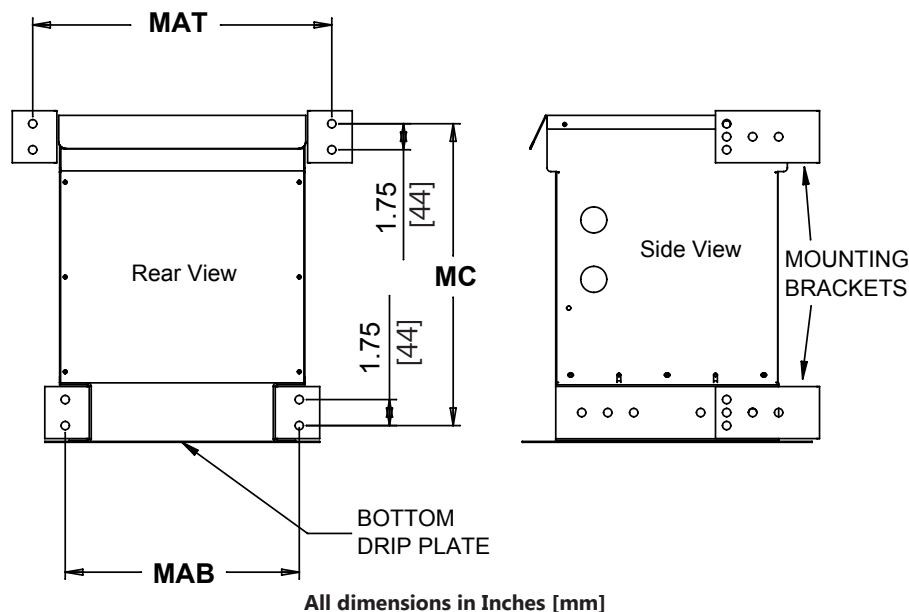
Enclosure Case Style	Wall Mount Available	Ceiling Mount Available	HPS Mounting Kit P/N
NH3	Yes	Yes	NW2
NH4	No	No	N/A
NH5	Yes	Yes	NH5DP
NH6	Yes	Yes	NH6DP
NJ Series	No	No	N/A

The NW2 wall/ceiling mounting kit is only designed for units up to 800 pounds (341 kg) maximum.

NW2 WALL/CEILING MOUNTING KITS

The following drawings detail the wall and ceiling mounting dimensions required and method by which the NW2 kits are installed on the NH3 enclosures.

NW2 WALL MOUNT - MOUNTING DIMENSIONS



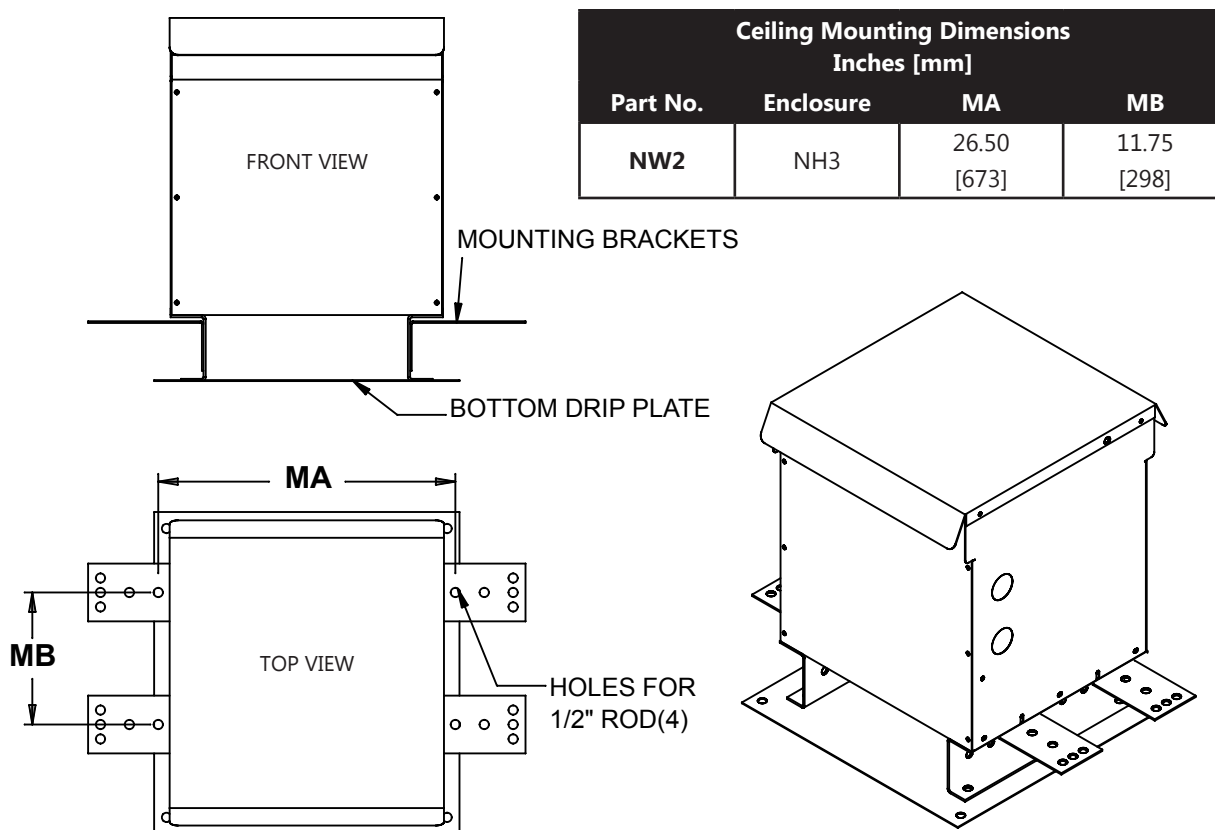
Wall Mounting Dimensions Inches [mm]				
Part No.	Enclosure	MAT	MAB	MC
NW2	NH3	29.375 [746]	23.50 [597]	36.50 [927]

Enclosure Wall Mounting Dimensions



Hammond
Power Solutions

NW2 CEILING MOUNT - MOUNTING DIMENSIONS

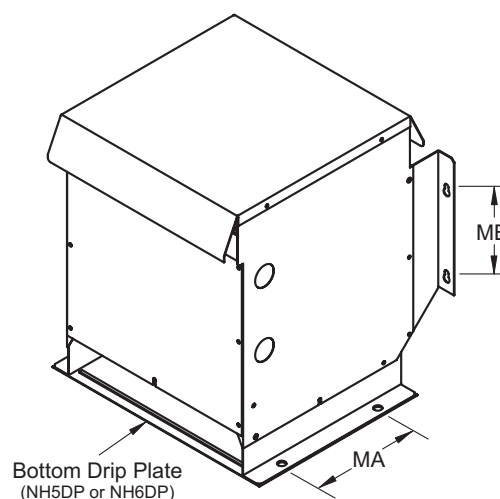


NH5DP & NH6DP WALL/CEILING MOUNTING KITS

The NH5 and NH6 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 NH5 and NH6, 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 and through the drip plate mounting holes and install mounting hardware.

NOTE: Do not ceiling mount either the NH5 or NH6 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 Inches [mm]	MB Dimension Inches [mm]
NH5DP	NH5	9.00 [229]	7.00 [178]
NH6DP	NH6	9.00 [229]	8.00 [203]

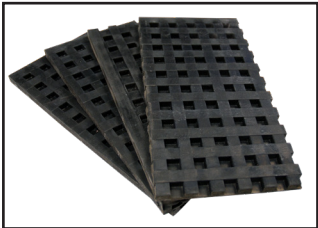
Anti-Vibration Pad & Vibration Isolator Kits

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
P1	NH Series	Set of four (4) rubber anti-vibration pads which replace the standard steel enclosure washers.
P2	NJ Series	



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 [kg]	Description
NMP1	Up to 340 lbs [153 kg]	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 [154-307 kg]	
NMP3	681 to 1040 lbs [308-470 kg]	
NMP4	1041 to 1740 lbs [471-788 kg]	
NMP5	1741 to 2330 lbs [789-1055 kg]	
NMP6	2331 to 3450 lbs [1056-1563 kg]	
NMP7	3451 to 4690 lbs [1564-2127 kg]	



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
NH3001	NH3 Enclosure Top Panel	1
NH3002	NH3 Enclosure Left Side Panel	1
NH3003	NH3 Enclosure Right Side Panel	1
NH3004	NH3 Enclosure Front/Back Pane	1
NH3006	NH3 Enclosure Dripshield	1
NH4001	NH4 Enclosure Top Panel	1
NH4002	NH4 Enclosure Left Side Panel	1
NH4003	NH4 Enclosure Right Side Panel	1
NH4006	NH4 Enclosure Dripshield	1
NH5001	NH5 Enclosure Top Panel	1
NH5002	NH5 Enclosure Left Side Panel	1
NH5003	NH5 Enclosure Right Side Panel	1
NH5004	NH5 Enclosure Front Panel	1
NH6001	NH6 Enclosure Top Panel	1
NH6002	NH6 Enclosure Left Side Panel	1
NH6003	NH6 Enclosure Right Side Panel	1
NH6004	NH6 Enclosure Front Panel	1
NJ1001	NJ1 Enclosure Top Panel	1
NJ1002	NJ1 Enclosure Side Panel	1
NJ1003	NJ1 Enclosure Front/Back Panel	1
NJ1004	NJ1 Enclosure Bottom Panel	1
NJ1005	NJ1 Enclosure Dripshield	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:

PNT10098

Canada/US Built Products:

PNT10099

ELECTRICAL SCHEMATICS AND CONNECTION DIAGRAM

SCD 7

SCHEMATIC	CONNECTIONS		
	Primary Volts		Connect lines to
	208 218 242 252 437 480 483 504 604 630	H1, H2, H3	1
	198 208 230 240 416 456 460 480 575 600	H1, H2, H3	2
	187 198 219 228 395 432 437 456 546 570	H1, H2, H3	3
	Secondary Volts		Connect lines to
	208 230 240 380 416 460 480 600	X1, X2, X3	
	120 133 139 220 240 265 277 347	X1, X0 X2, X0 X3, X0	

SCD 9

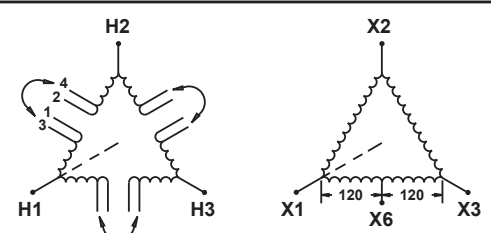
SCHEMATIC	CONNECTIONS		
	Primary Volts		Connect lines to
	218 242 252 437 483 504 604 630	H1, H2, H3	1
	213 236 246 426 472 492 589 615	H1, H2, H3	2
	208 230 240 416 460 480 575 600	H1, H2, H3	3
	203 224 234 406 449 468 561 585	H1, H2, H3	4
	198 219 228 395 437 456 546 570	H1, H2, H3	5
	Secondary Volts		Connect lines to
	208 380 416 480 600	X1, X2, X3	-
	120 220 240 277 347	X1, X0	-
		X2, X0	-
		X3, X0	-

SCD 10

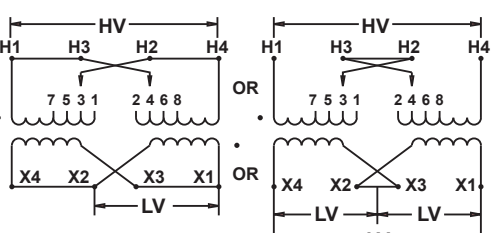
SCHEMATIC	CONNECTIONS		
	Primary Volts		Connect lines to
	218 242 252 437 483 504 604 630 2520 4368	H1, H2, H3	1-2
	213 236 246 426 472 492 589 615 2460 4264	H1, H2, H3	2-3
	208 230 240 416 460 480 575 600 2400 4160	H1, H2, H3	3-4
	203 224 234 406 449 468 561 585 2340 4056	H1, H2, H3	4-5
	198 219 228 395 437 456 546 570 2280 3952	H1, H2, H3	5-6
	Secondary Volts		Connect lines to
	208 380 416 480 600	X1, X2, X3	-
	120 220 240 277 347	X1, X0	-
		X2, X0	-
		X3, X0	-

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

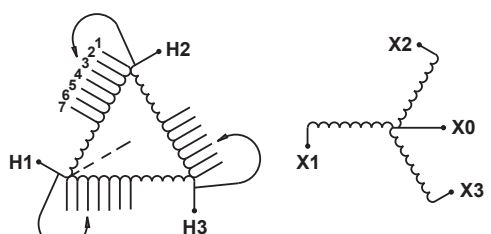
SCD 13

SCHEMATIC	CONNECTIONS		
	Primary Volts	Connect lines to	Inter-connect
	480 600	H1, H2, H3	1-2
	456 570	H1, H2, H3	2-3
	432 540	H1, H2, H3	3-4
	Secondary Volts	Connect lines to	Inter-connect
	240	X1, X2, X3	-
	120	X1, X6	-
		X3, X6	-

SCD 17

SCHEMATIC	CONNECTIONS		
	Primary Volts	Connect lines to	Inter-connect
	504	H1, H4	1-H2, 2-H3, H2-H3
	492	H1, H4	3-H2, 2-H3, H2-H3
	480	H1, H4	3-H2, 4-H3, H2-H3
	468	H1, H4	5-H2, 4-H3, H2-H3
	456	H1, H4	5-H2, 6-H3, H2-H3
	444	H1, H4	7-H2, 6-H3, H2-H3
	432	H1, H4	7-H2, 8-H3, H2-H3
	252	H1, H4	1-H2, 2-H3, H1-H3, H2-H
	240	H1, H4	3-H2, 4-H3, H1-H3, H2-H4
	228	H1, H4	5-H2, 6-H3, H1-H3, H2-H4
	216	H1, H4	7-H2, 8-H3, H1-H3 H2-H4
	Secondary Volts	Connect lines to	Inter-connect
	240	X1, X4	X2-X3
	120	X1, X2	X2-X4, X1-X3
	120/240	X1, X2, X4	X2-X3

SCD 19

SCHEMATIC	CONNECTIONS		
	Primary Volts	Connect lines to	Inter-connect
	218 504 630	H1, H2, H3	1-H1, 1-H2, 1-H3
	213 492 615	H1, H2, H3	2-H1, 2-H2, 2-H3
	208 480 600	H1, H2, H3	3-H1, 3-H2, 3-H3
	203 468 585	H1, H2, H3	4-H1, 4-H2, 4-H3
	198 456 570	H1, H2, H3	5-H1, 5-H2, 5-H3
	193 444 556	H1, H2, H3	6-H1, 6-H2, 6-H3
	188 432 542	H1, H2, H3	7-H1, 7-H2, 7-H3
	Secondary Volts	Connect lines to	Inter-connect
	208 480	X1, X2, X3	-
	120 277	1, X0 X2, X0 X3, X0	-

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

ELECTRICAL SCHEMATICS AND CONNECTION DIAGRAM

SCD 20

SCHEMATIC	CONNECTIONS		
	Primary Volts	Connect lines to	Inter-connect
	218 504 630	H1, H2, H3	1-2
	213 492 600	H1, H2, H3	2-3
	Secondary Volts	Connect lines to	Inter-connect
	208 480 570	H1, H2, H3	3-4
	203 468 504	H1, H2, H3	4-5
	Secondary Volts	Connect lines to	Inter-connect
	198 456 504	H1, H2, H3	5-6
	193 444 480	H1, H2, H3	6-7
	Secondary Volts	Connect lines to	Inter-connect
	188 432 456	H1, H2, H3	7-8
	Secondary Volts	Connect lines to	Inter-connect
	208 480	X1, X2, X3	-
	120 277	X1, X0 X2, X0 X3, X0	-

SCD 21

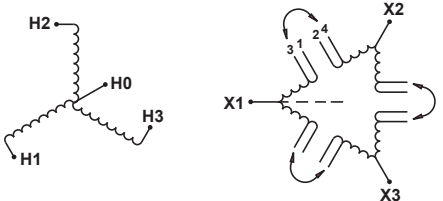
SCHEMATIC	CONNECTIONS		
	Primary Volts	Connect lines to	Inter-connect
	504	H1, H2, H3	1-H1, 1-H2, 1-H3
	492	H1, H2, H3	2-H1, 2-H2, 2-H3
	Secondary Volts	Connect lines to	Inter-connect
	480	H1, H2, H3	3-H1, 3-H2, 3-H3
	468	H1, H2, H3	4-H1, 4-H2, 4-H3
	Secondary Volts	Connect lines to	Inter-connect
	456	H1, H2, H3	5-H1, 5-H2, 5-H3
	444	H1, H2, H3	6-H1, 6-H2, 6-H3
	Secondary Volts	Connect lines to	Inter-connect
	432	H1, H2, H3	7-H1, 7-H2, 7-H3
	Secondary Volts	Connect lines to	Inter-connect
	240	X1, X2, X3	-
	120	X1, X6	-
	Secondary Volts	Connect lines to	Inter-connect
		X3, X6	-

SCD 22

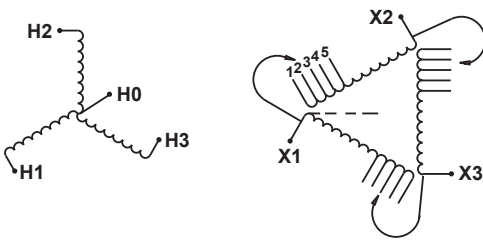
SCHEMATIC	CONNECTIONS		
	Primary Volts	Connect lines to	Inter-connect
	504	H1, H2, H3	1-2
	492	H1, H2, H3	2-3
	Secondary Volts	Connect lines to	Inter-connect
	480	H1, H2, H3	3-4
	468	H1, H2, H3	4-5
	Secondary Volts	Connect lines to	Inter-connect
	456	H1, H2, H3	5-6
	444	H1, H2, H3	6-7
	Secondary Volts	Connect lines to	Inter-connect
	432	H1, H2, H3	7-8
	Secondary Volts	Connect lines to	Inter-connect
	240	X1, X2, X3	-
	120	X1, X6	-
	Secondary Volts	Connect lines to	Inter-connect
		X3, X6	-

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

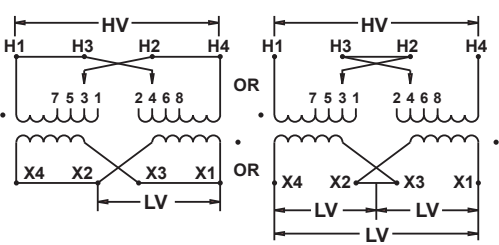
SCD 23

SCHEMATIC	CONNECTIONS		
	Primary Volts		Inter-connect
	208	240 252	1-2
	198	228 240	2-3
	188	216 228	3-4
	Secondary Volts		Inter-connect
	230	260 460 480	H1, H2, H3
	133	139 265 277	H1, H0 H2, H0 H3, H0

SCD 26

SCHEMATIC	CONNECTIONS		
	Primary Volts		Inter-connect
	218	252	1
	213	246	2
	208	240	3
	203	234	4
	198	228	5
	Secondary Volts		Inter-connect
	460	480 600	-
	265	277 347	H1, H0 H2, H0 H3, H0

SCD 30

SCHEMATIC	CONNECTIONS		
	Primary Volts		Inter-connect
	440	H1, H4	1-H2, 2-H3, H2-H3
	416	H1, H4	3-H2, 4-H3, H2-H3
	400	H1, H4	5-H2, 6-H3, H2-H3
	380	H1, H4	7-H2, 8-H3, H2-H3
	220	H1, H4	2, 2-H3, H1-H3, H2-
	208	H1, H4	3-H2, 4-H3, H1-H3, H2-H4
	200	H1, H4	5-H2, 6-H3, H1-H3, H2-H4
	190	H1, H4	7-H2, 8-H3, H1-H3, H2-H4
	Secondary Volts		Inter-connect
	240	X1, X4	X2-X3
	120	X1, X2	X2-X4, X1-X3
	120/240	X1, X2, X4	X2-X3

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

ELECTRICAL SCHEMATICS AND CONNECTION DIAGRAM

SCD 34

SCHEMATIC	CONNECTIONS		
	Primary Volts	Connect lines	Inter-connect
	480	H1, H4	1-H2, 2-H3, H2-H3
	456	H1, H4	2-H3, 3-H2, H2-H3
	432	H1, H4	3-H2, 4-H3, H2-H3
	240	H1, H4	1-H2, 2-H3, H1-H3, H2-H4
	216	H1, H4	3-H2, 4-H3, H1-H3, H2-H4
	Secondary Volts	Connect lines to	Inter-connect
	240	X1, X4	X2-X3
	120/240	X1, X2, X4	X2-X3
	120	X1, X2	X2-X4, X1-X3

SCD 40

SCHEMATIC	CONNECTIONS		
	Primary Volts	Connect lines to	Inter-connect
	208 240	X1, X2, X3	1
	198 228	X1, X2, X3	2
	188 216	X1, X2, X3	3
	Secondary Volts	Inter-connect	
	230 260 460 480	H1, H2, H3	
	133 139 265 277	H1, H0 H2, H0 H3, H0	

SCD 52

SCHEMATIC	CONNECTIONS		
	Primary Volts	Connect lines to	Inter-connect
	504	H1, H2, H3	1-H1, 1-H2, 1-H3
	492	H1, H2, H3	2-H1, 2-H2, 2-H3
	480	H1, H2, H3	3-H1, 3-H2, 3-H3
	468	H1, H2, H3	4-H1, 4-H2, 4-H3
	456	H1, H2, H3	5-H1, 5-H2, 5-H3
	444	H1, H2, H3	6-H1, 6-H2, 6-H3
	432	H1, H2, H3	7-H1, 7-H2, 7-H3
	Secondary Volts	Connect lines to	Inter-connect
	430	X1, X2, X3	A-X1, A-X2, A-X3
	416	X1, X2, X3	B-X1, B-X2, B-X3
	400	X1, X2, X3	C-X1, C-X2, C-X3
	380	X1, X2, X3	D-X1, D-X2, D-X3
	248	X1-X0/X2-X0/X3-X0	A-X1, A-X2, A-X3
	240	X1-X0/X2-X0/X3-X0	B-X1, B-X2, B-X3
	231	X1-X0/X2-X0/X3-X0	C-X1, C-X2, C-X3
	219	X1-X0/X2-X0/X3-X0	D-X1, D-X2, D-X3

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Other HPS Low Voltage Distribution Transformers

In addition to HPS Express L we also offer other low voltage distribution transformers to meet your applications and efficiency needs.



HPS SENTINEL™ Energy Efficient Distribution Transformer

HPS offers three standard lines of energy efficient low voltage distribution transformers that meet or exceed U.S. Department of Energy (DOE) 10 CFR Part 431 efficiency standards and the latest Canadian Energy Efficiency Regulations SOR/94-651 efficiencies - NRCAN 2018. Standard features for the three lines include:

- Meets DOE 2016 and NRCAN 2019 efficiency standards
- Single phase ratings from 15 kVA to 333 kVA and three phase from 15 kVA to 1500 kVA (custom ratings available on request)
- Copper and aluminum available
- UL Listed and CSA Certified
- Type 3R enclosure
- Pre-installed lugs (up to 270 Amps)
- General purpose, k-factor and harmonic mitigating available



HPS EXPRESS™ L Commerical Distribution Transformer

HPS Express™ L series of low voltage distribution transformers offer an ideal combination of features, quality, reliability and performance to provide the most cost effective solution for your commercial applications. Standard features include:

- 60 Hz frequency
- UL listed
- Ratings from 15 to 500 kVA three-phase
- Aluminum winding
- Standard 220°C (150°C Rise)
- Enclosure Type 2 standard
- Primary voltage taps of 440, 460, 480
- Secondary voltage of 220Y/127
- Front accessible high and low voltage terminals
- Side knock-outs provided where applicable
- Typically, 3% to 6.5% impedance
- Floor mounting standard/wall mounting optional



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