



## HPS Titan™ Series Encapsulated Transformers for Hazardous Locations



Hammond  
Power Solutions

# HPS Titan Series

## Encapsulated Transformers

HPS Titan N encapsulated transformers offer an innovative design with technological improvements for industrial and hazardous applications.

The transformer core and coil is completely encapsulated in epoxy and silica, providing excellent protection from airborne contaminants and prevents the ingress of moisture.

HPS Titan N three phase design has a removable hinged door and factory installed grounding lugs, reducing installation time and money.



## APPLICATIONS



Petrochemical



Marine



Industrial



Oil & Gas



Mining



Wastewater

## APPROVALS

- ANSI/ISA 12.12.10 - File No. E258346 (Class 1, Division 2, Groups A, B, C, D and Class 1, Zone 2, Group IIC, T3 Hazardous Locations) - T3C/T3A Temperature Classification
- UL 5085-1 and UL5085-2 Listed - File No. E258346
- ABS Type Approval (Marine Duty Service and Offshore Applications)



\*For three phase units only

## FEATURES & BENEFITS

### Single Phase

- Copper winding
- Electrostatic shield
- Standard wall mounting with keyhole mounting slots
- Front accessible hinged door
- Standard Type 3R enclosure suitable for indoor or outdoor applications

### Three Phase

- Higher impedance designs lower inrush and short circuit currents, allowing the use of less costly protective devices
- Completely encapsulated in epoxy and silica to prevent the ingress of moisture
- Standard 10kV BIL rating provides increased reliability and protection against critical equipment failure (including voltage spikes and other line transients)
- Copper winding
- Electrostatic shield
- Improved efficiency level that reduces energy costs
- Standard Type 4 enclosure suitable for indoor or outdoor applications
- Removable hinged door allows for easy access to terminations
- Standard integral floor and wall mounting brackets on select kVA's for faster installation
- Optional breather drains ensure that any moisture build-up due to condensation is easily eliminated without compromising Type 4/12 enclosure integrity

### Temperature Code\*:

- Class 1, Zone 2, Group IIC, T3
- T3A (115°C rise units) at 40°C ambient
- T3C (80°C & 95°C rise units) at 40°C ambient
- HPS Titan N 80°C and 95°C rise units are suitable for 50°C ambient**

80°C rise at 50°C ambient maintains T3C performance

95°C rise at 50°C ambient maintains T3A performance

(95°C rise unit only available in three phase)



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## Installation made fast & easy!

The improved three phase enclosure design allows for quick and easy installation. By simply loosening the screw clips on the side of the enclosure, installers are able to access the terminations. The removable hinged door and front accessible terminations allow for easier cable installation in confined spaces.

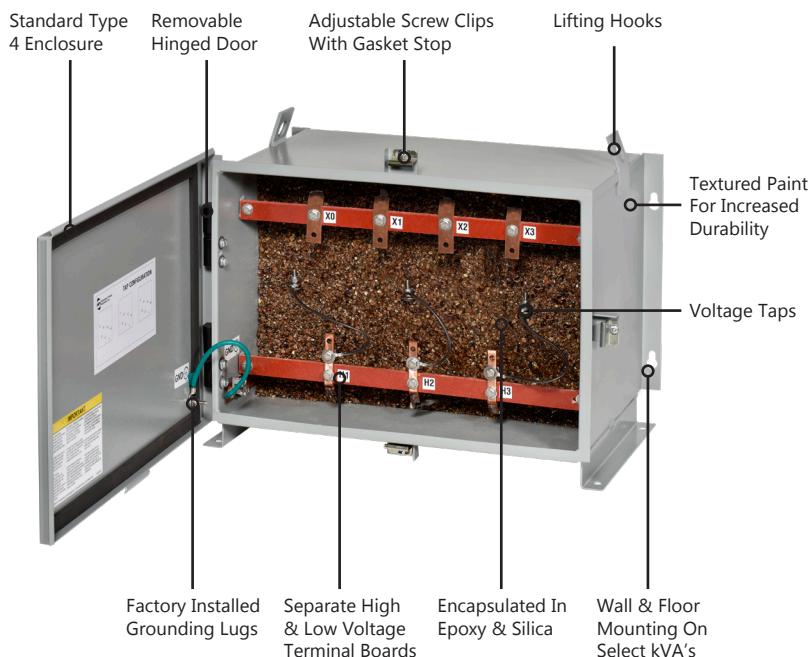


## Testing

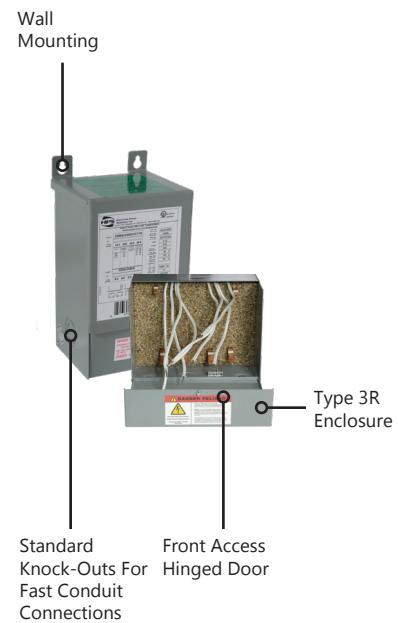
All HPS transformers are tested at HPS prior to shipment. They must meet very stringent quality criteria prior to release.



### Three Phase



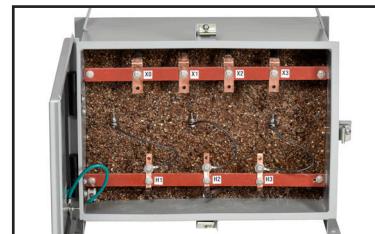
### Single Phase



Easy access to ground\*



Removable hinged door\*



Quick access to terminations\*

# Specifications & Accessories

## Single Phase



### STANDARD SPECIFICATIONS

<b>kVA:</b>	Up to 37.5kVA	<b>Termination:</b>	Front accessible separated high and low voltage lead wires or copper tabs
<b>UL Listed:</b>	File: E258346	<b>Conduit Entry:</b>	Rear or side entry
<b>Frequency:</b>	60 Hz (50/60Hz options available)	<b>Impedance:</b>	Typically 1% to 7%
<b>Insulation System:</b>	130°C (80°C rise) up to 1 kVA 180°C (115°C rise) 1.5 to 37.5 kVA optional 180°C (80°C rise) 1.5 to 37.5 kVA	<b>Mounting:</b>	Standard wall mounting with keyhole mounting slots. Lifting provisions standard from 5 kVA to 37.5 kVA.
<b>Enclosure Type:</b>	Heavy duty enclosed Type 3R standard [optional Type 4, 12, 4X]	<b>Seismic:</b>	Seismically qualified according to the International Building Code (IBC) 2018, and the American Society of Civil Engineers ASCE 7-10 specifications, with the following design parameters: Spectral acceleration: $S_{DS} \leq 2.0$ g Importance factor: $I_p = 1.5$ Attachment/height ratio: $z/h = 1.0$ " O.S.H.P.D. California Certified
<b>Enclosure Finish:</b>	ANSI 61 Grey	<b>Sound Level:</b>	Meets NEMA ST-20 standards (optional low noise units available)
<b>Standard Primary Taps:</b>	Refer to wiring diagrams for details	<b>Warranty:</b>	10 years

## Three Phase

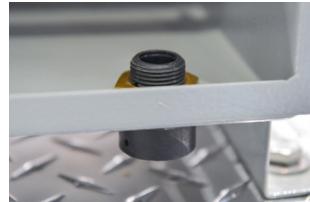


## STANDARD SPECIFICATIONS

<b>kVA:</b>	Up to 150kVA	<b>Termination:</b>	Front accessible separate high and low voltage terminals on select units
<b>UL Listed:</b>	File: E258346	<b>Conduit Entry:</b>	Side or bottom enclosure entry (exceptions apply on bottom entry)
<b>Frequency:</b>	60 Hz (50/60 Hz available)	<b>Impedance:</b>	Typically 1.8% to 6.5%
<b>Insulation System:</b>	80°C rise (130°C class) - 2 & 3 kVA only 115°C rise (180°C class) optional 80°C & 95°C (180°C class)	<b>Mounting:</b>	Floor or wall/ceiling mounting available Refer to selection tables for details
<b>BIL Rating:</b>	10 kV	<b>Seismic:</b>	Seismically qualified according to the International Building Code (IBC) 2018, and the American Society of Civil Engineers ASCE 7-10 specifications, with the following design parameters: Spectral acceleration: $S_{ps} \leq 2.0$ g Importance factor: $I_p = 1.5$ Attachment/height ratio: $z/h = 1.0$ " O.S.H.P.D. California Certified
<b>Enclosure Type:</b>	Heavy duty enclosed Type 4 standard (also meets Type 12) [optional Type 4X]	<b>Sound Level:</b>	Meets NEMA ST-20 standards (optional low noise units available)
<b>Enclosure Finish:</b>	ANSI 61 Grey, UL50 textured powder coating or stainless steel	<b>Warranty:</b>	10 years
<b>Neutral:</b>	Neutral terminal for field connection (on applicable units)		
<b>Standard Primary Taps:</b>	Refer to wiring diagrams for details		

### Optional Accessories:

- Breather drain for Type 4 and 4X enclosures  
(Breather drain is recommended for environments when condensation may be present)  
Part number: PLG19000



# Part Numbering Guide

## HPS Titan Single Phase Part Number Guide

Family	kVA			Primary Voltage	Secondary Voltage	Winding Material/ Electrostatic Shield	Temp. Rise & Insul. Class	Enclosure	
Example	Q	0	0	5	L	E	K	B	3
<b>Family:</b> Q - Titan 1PH	<b>kVA Rating:</b> 0.5 kVA - C50 0.75 kVA - C75 1.5 kVA - 1C5 2 kVA - 002 3 kVA - 003 5 kVA - 005 7.5 kVA - 007 10 kVA - 010 15 kVA - 015 25 kVA - 025 37.5 kVA - 037 50 kVA - 050			<b>Primary Voltage:</b> <u>1PH</u> L - 240x480 J - 347/380 P - 600 Y - 208/240/277 X - Export			<b>Winding Material:</b> C - Copper - 500VA K - CU + Shield - above 500VA		

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

<sup>1</sup> 80°C rise is standard on units up to and including 1kVA (130°C insulation class, T3C temperature code)

<sup>2</sup> 115°C rise is standard on units 1.5kVA and above (180°C insulation class, T3C temperature code)

<sup>3</sup> 80°C rise is optional on units 1.5kVA and above (180°C insulation class, T3C temperature code)



## HPS Titan N Three Phase Part Number Guide

Family	Appl. Type	Generation	Phase	kVA				Primary Voltage	Secondary Voltage	Winding Material/ Electrostatic Shield	Temp. Rise & Insul. Class	Frequency	Enclosure	
Example	T	N	2	A	0	0	4	5	K	B	K	B	6	F
<b>Family:</b> T - Titan	<b>kVA Rating:</b> 2 kVA - 0002 3 kVA - 0003 6 kVA - 0006 9 kVA - 0009 15 kVA - 0015 30 kVA - 0030 45 kVA - 0045 75 kVA - 0075 112.5 kVA - 0112 150 kVA - 0150				<b>Primary Voltage:</b> <u>3PH</u> K - 480D P - 600D, 600Y Q - 600D, 480D H - 400D <sup>1</sup> G - 380D <sup>1</sup>				<b>Winding Material:</b> K - CU + Shield					
<b>Type:</b> N - Hazardous Location (North America Classification)									<b>Temperature Rise &amp; Insulation Class**</b> A - 80°C Rise (130°C Class) B - 80°C Rise (180°C Class) C - 95°C Rise (180°C Class) F - 115°C Rise (180°C Class)					
<b>Generation:</b> 2 - Current					<b>Secondary Voltage:</b> <u>3PH</u> B - 208Y/120 C - 230Y/133 D - 240D, 240Y/139, or 240D/120CT G - 380Y/220 H - 400Y/231 K - 480Y/277 P - 600Y/347				<b>Frequency:</b> 5 - 50/60Hz 6 - 60Hz*					
<b>Phase (Pri-Sec):</b> A - 3PH Delta-Wye-N B - 3PH Wye-N-Delta C - 3PH Delta-Delta/CT D - 3PH Delta-Delta									<b>Enclosure:</b> F - Type 4 <sup>2</sup> G - Type 4X (304SS) H - Type 4X (316SS)					

<sup>1</sup>Units with primary voltage code "G" & "H" come standard as 50/60Hz and are CE marked. All others are 60Hz only.

\*Default options are not listed if chosen

<sup>2</sup>2 & 3 kVA are 130°C Class

<sup>3</sup>Type 4 enclosure is also Type 12.



## We're here to support you

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



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### Technical Webinars

HPS offers interactive webinar presentations to provide customers with detailed transformer and reactor solutions. To schedule a webinar email:  
[marketing@hammondpowersolutions.com](mailto:marketing@hammondpowersolutions.com)

# Selection Tables

## HPS Titan Encapsulated Transformer

### COPPER WOUND, SINGLE PHASE

\*208/240/277 Primary Volts

120/240 Secondary Volts



60 Hz

kVA	Catalog Number	Case Style	Approx. Dimensions Inches [mm]			°C Temp. Rise	Approx. Weight Lbs.[kg]	Mtg Type W - Wall F - Floor	Wiring Diagram
			Width	Depth	Height				
0.5	QC50YECB	NQ2	5.06 [128.53]	4.56 [115.83]	9.30 [236.22]	80	19 [8.6]	W	SCD 3.1
0.75	QC75YEBK	NQ2	5.06 [128.53]	4.56 [115.83]	9.30 [236.22]	80	21 [9.5]	W	SCD 3.1
1	Q1COYEBK	NQ3	5.88 [149.36]	5.19 [131.83]	10.56 [268.23]	80	28 [12.6]	W	SCD 3.1
1.5	Q1C5YEKF	NQ3	5.88 [149.36]	5.19 [131.83]	10.56 [268.23]	115	36 [16.2]	W	SCD 3.1
2	Q002YEKF	NQ4	7.06 [179.33]	6.25 [158.75]	11.75 [298.45]	115	44 [19.8]	W	SCD 3.1
3	Q003YEKF	NQ4	7.06 [179.33]	6.25 [158.75]	11.75 [298.45]	115	56 [25.2]	W	SCD 3.1
5	Q005YEKF	NQ5	10.00 [254.00]	7.75 [196.85]	17.25 [438.15]	115	134 [61]	W	SCD 3.1
7.5	Q007YEKF	NQ5	10.00 [254.00]	7.75 [196.85]	17.25 [438.15]	115	160 [72]	W	SCD 3.1
10	Q010YEKF	NQ6	12.25 [311.15]	9.25 [234.95]	20.88 [530.36]	115	204 [92]	W	SCD 3.1
15	Q015YEKF	NQ6	12.25 [311.15]	9.25 [234.95]	20.88 [530.36]	115	248 [112]	W	SCD 3.1
25	Q025YEKF	NQ7	14.50 [368.30]	10.75 [273.05]	21.38 [543.06]	115	345 [156]	W	SCD 3.1
37.5	Q037YEKF	NQ8	14.50 [368.30]	10.75 [273.05]	27.38 [695.46]	115	476 [215]	W	SCD 3.1

\*347/380 Primary Volts

120/240 Secondary Volts



50/60 Hz

kVA	Catalog Number	Case Style	Approx. Dimensions Inches [mm]			°C Temp. Rise	Approx. Weight Lbs.[kg]	Mtg Type W - Wall F - Floor	Wiring Diagram
			Width	Depth	Height				
0.5	QC50FECB	NQ2	5.06 [128.53]	4.56 [115.83]	9.30 [236.22]	80	19 [8.6]	W	SCD 5.1
0.75	QC75FEKB	NQ2	5.06 [128.53]	4.56 [115.83]	9.30 [236.22]	80	21 [9.5]	W	SCD 5.1
1	Q1C0FEKB	NQ3	5.88 [149.36]	5.19 [131.83]	10.56 [268.23]	80	28 [12.6]	W	SCD 5.1
1.5	Q1C5FEKF	NQ3	5.88 [149.36]	5.19 [131.83]	10.56 [268.23]	115	36 [16.2]	W	SCD 5.1
2	Q002FEKF	NQ4	7.06 [179.33]	6.25 [158.75]	11.75 [298.45]	115	44 [19.8]	W	SCD 5.1
3	Q003FEKF	NQ5	7.06 [179.33]	6.25 [158.75]	11.75 [298.45]	115	56 [25.2]	W	SCD 5.1
5	Q005FEKF	NQ5	10.00 [254.00]	7.75 [196.85]	17.25 [438.15]	115	134 [61]	W	SCD 5.1
7.5	Q007FEKF	NQ6	10.00 [254.00]	7.75 [196.85]	17.25 [438.15]	115	160 [72]	W	SCD 5.1
10	Q010FEKF	NQ6	12.25 [311.15]	9.25 [234.95]	20.88 [530.36]	115	204 [92]	W	SCD 5.1
15	Q015FEKF	NQ6	12.25 [311.15]	9.25 [234.95]	20.88 [530.36]	115	248 [112]	W	SCD 5.1
25	Q025FEKF	NQ7	14.50 [368.30]	10.75 [273.05]	21.38 [543.06]	115	345 [156]	W	SCD 5.1
37.5	Q037FEKF	NQ8	14.50 [368.30]	10.75 [273.05]	27.38 [695.46]	115	476 [215]	W	SCD 5.1

\*240 X 480 Primary Volts

120/240 Secondary Volts

60 Hz

kVA	Catalog Number	Case Style	Approx. Dimensions Inches [mm]			°C Temp. Rise	Approx. Weight Lbs.[kg]	Mtg Type W - Wall F - Floor	Wiring Diagram
			Width	Depth	Height				
0.5	QC50LECB	NQ2	5.06 [128.53]	4.56 [115.83]	9.30 [236.22]	80	23 [10.4]	W	SCD 1.1
0.75	QC75LEKB	NQ2	5.06 [128.53]	4.56 [115.83]	9.30 [236.22]	80	24 [10.8]	W	SCD 1.1
1	Q1C0LEKB	NQ3	5.88 [149.36]	5.19 [131.83]	10.56 [268.23]	80	28 [12.6]	W	SCD 1.1
1.5	Q1C5LEKF	NQ3	5.88 [149.36]	5.19 [131.83]	10.56 [268.23]	115	35 [15.8]	W	SCD 1.1
2	Q002LEKF	NQ4	7.06 [179.33]	6.25 [158.75]	11.75 [298.45]	115	47 [21.2]	W	SCD 1.1
3	Q003LEKF	NQ4	7.06 [179.33]	6.25 [158.75]	11.75 [298.45]	115	62 [27.9]	W	SCD 1.1
5	Q005LEKF	NQ5	10.00 [254.00]	7.75 [196.85]	17.25 [438.15]	115	131 [59.0]	W	SCD 1.1
7.5	Q007LEKF	NQ5	10.00 [254.00]	7.75 [196.85]	17.25 [438.15]	115	155 [69.8]	W	SCD 1.1
10	Q010LEKF	NQ6	12.25 [311.15]	9.25 [234.95]	20.88 [530.36]	115	220 [99.0]	W	SCD 1.1
15	Q015LEKF	NQ6	12.25 [311.15]	9.25 [234.95]	20.88 [530.36]	115	248 [112]	W	SCD 1.1
25	Q025LEKF	NQ7	14.50 [368.30]	10.75 [273.05]	21.38 [543.06]	115	345 [156]	W	SCD 1.1
37.5	Q037LEKF	NQ8	14.50 [368.30]	10.75 [273.05]	27.38 [695.46]	115	476 [215]	W	SCD 1.1

# Selection Tables

HPS Titan  
Encapsulated Transformer



Hammond  
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## COPPER WOUND, SINGLE PHASE

\*600 Primary Volts

120/240 Secondary Volts



60 Hz

kVA	Catalog Number	Case Style	Approx. Dimensions Inches [mm]			°C Temp. Rise	Approx. Weight Lbs. [kg]	Mtg Type W - Wall F - Floor	Wiring Diagram
			Width	Depth	Height				
0.5	QC50PECB	NQ2	5.06 [128.53]	4.56 [115.83]	9.30 [236.22]	80	15 [6.8]	W	SCD 2.1
0.75	QC75PEKB	NQ2	5.06 [128.53]	4.56 [115.83]	9.30 [236.22]	80	18 [8.1]	W	SCD 2.1
1	Q1C0PEKB	NQ3	5.88 [149.36]	5.19 [131.83]	10.56 [268.23]	80	27 [12.2]	W	SCD 2.1
1.5	Q1C5PEKF	NQ3	5.88 [149.36]	5.19 [131.83]	10.56 [268.23]	115	31 [14.0]	W	SCD 2.1
2	Q002PEKF	NQ4	7.06 [179.33]	6.25 [158.75]	11.75 [298.45]	115	40 [18.0]	W	SCD 2.1
3	Q003PEKF	NQ4	7.06 [179.33]	6.25 [158.75]	11.75 [298.45]	115	52 [23.4]	W	SCD 2.1
5	Q005PEKF	NQ5	10.00 [254.00]	7.75 [196.85]	17.25 [438.15]	115	114 [51.3]	W	SCD 2.1
7.5	Q007PEKF	NQ5	10.00 [254.00]	7.75 [196.85]	17.25 [438.15]	115	129 [58.1]	W	SCD 2.1
10	Q010PEKF	NQ6	12.25 [311.15]	9.25 [234.95]	20.88 [530.36]	115	197 [88.7]	W	SCD 2.1
15	Q015PEKF	NQ6	12.25 [311.15]	9.25 [234.95]	20.88 [530.36]	115	234 [106]	W	SCD 2.1
25	Q025PEKF	NQ7	14.50 [368.30]	10.75 [273.05]	21.38 [543.06]	115	285 [129]	W	SCD 2.1
37.5	Q037PEKF	NQ8	14.50 [368.30]	10.75 [273.05]	27.38 [695.46]	115	454 [205]	W	SCD 2.1

\*Export<sup>1</sup> Primary Volts

120/240 Secondary Volts



50/60 Hz

kVA	Catalog Number	Case Style	Approx. Dimensions Inches [mm]			°C Temp. Rise	Approx. Weight Lbs. [kg]	Mtg Type W - Wall F - Floor	Wiring Diagram
			Width	Depth	Height				
0.5	QC50XECB	NQ2	5.06 [128.53]	4.56 [115.83]	9.30 [236.22]	80	15 [6.8]	W	SCD 4.1
0.75	QC75XEKB	NQ2	5.06 [128.53]	4.56 [115.83]	9.30 [236.22]	80	20 [9.0]	W	SCD 4.1
1	Q1C0XEKB	NQ3	5.88 [149.36]	5.19 [131.83]	10.56 [268.23]	80	32 [14.4]	W	SCD 4.1
1.5	Q1C5XEKF	NQ3	5.88 [149.36]	5.19 [131.83]	10.56 [268.23]	115	35 [15.8]	W	SCD 4.1
2	Q002XEKF	NQ4	7.06 [179.33]	6.25 [158.75]	11.75 [298.45]	115	54 [24.3]	W	SCD 4.1
3	Q003XEKF	NQ5	10.00 [254.00]	7.75 [196.85]	17.25 [438.15]	115	105 [47.3]	W	SCD 4.1
5	Q005XEKF	NQ5	10.00 [254.00]	7.75 [196.85]	17.25 [438.15]	115	138 [62.1]	W	SCD 4.1
7.5	Q007XEKF	NQ6	12.25 [311.15]	9.25 [234.95]	20.88 [530.36]	115	189 [85.1]	W	SCD 4.1
10	Q010XEKF	NQ6	12.25 [311.15]	9.25 [234.95]	20.88 [530.36]	115	222 [99.9]	W	SCD 4.1
15	Q015XEKF	NQ7	14.50 [368.30]	10.75 [273.05]	21.38 [543.06]	115	300 [135]	W	SCD 4.1
25	Q025XEKF				Consult HPS				
37.5	Q037XEKF				Consult HPS				

<sup>1</sup>Export = 190/200/208/220/240<sup>2</sup> X 380/400/415/440/480<sup>2</sup> Primary Volts

<sup>2</sup>The primary voltage ratio of 240 or 480 is available at 60Hz only with secondary voltage of approximately 130/262V.

### \*Single Phase Notes:

Units ending with letter "B" are 80°C rise

Units ending with letter "F" are 115°C rise; 80°C rise optional replace end suffix "F" with "B"

80°C rise units are T3C; 115°C rise units are T3A.

For shielded units 0.50kVA, replace the suffix "CB" with a "KB"

Refer to wiring diagrams for tap details



## COPPER WOUND, THREE PHASE

480D Primary Volts

208Y/120 Secondary Volts

60 Hz

kVA	Catalog Number	Case Style	Approx. Dimensions Inches [mm]			Full Capacity Taps	°C Temp. Rise	Approx. Weight Lbs.[kg]	Mtg Type W - Wall F - Floor	Wiring Diagram
			Width	Depth	Height					
2	TN2A0002KBKA	DQT1	13.13 [333.51]	9.13 [231.91]	13.38 [339.86]	2 - 5% 1FCAN, 1FCBN	80	74 [33.3]	W/F	SCD 1.3
3	TN2A0003KBKA	DQT1	13.13 [333.51]	9.13 [231.91]	13.38 [339.86]	2 - 5% 1FCAN, 1FCBN	80	78 [35.1]	W/F	SCD 1.3
6	TN2A0006KBKF	DQT2	15.88 [403.36]	9.88 [250.96]	15.38 [390.66]	2 - 5% 1FCAN, 1FCBN	115	140 [63]	W/F	SCD 1.3
9	TN2A0009KBKF	DQT3	19.13 [485.91]	11.88 [301.76]	14.69 [373.13]	2 - 5% 1FCAN, 1FCBN	115	200 [90]	W/F	SCD 1.3
15	TN2A0015KBKF	DQT4	22.38 [568.46]	13.88 [352.56]	17.25 [438.15]	6 - 2.5% 2FCAN, 4FCBN	115	310 [140]	W/F	SCD 2.3
30	TN2A0030KBKF	DQT5	25.88 [657.36]	16.50 [419.10]	21.88 [555.76]	6 - 2.5% 2FCAN, 4FCBN	115	510 [230]	F (Opt. W)	SCD 2.3
45	TN2A0045KBKF	DQT6	26.13 [663.71]	19.75 [501.65]	21.88 [555.76]	6 - 2.5% 2FCAN, 4FCBN	115	635 [286]	F (Opt. W)	SCD 2.3
75	TN2A0075KBKF	DQT7	32.38 [822.46]	22.00 [558.80]	25.63 [651.01]	6 - 2.5% 2FCAN, 4FCBN	115	1180 [531]	F	SCD 2.3
112.5	TN2A0112KBKF	DQT9	36.63 [930.41]	30.75 [781.05]	25.63 [651.01]	6 - 2.5% 2FCAN, 4FCBN	115	2000 [900]	F	SCD 2.3
150	TN2A0150KBKF	DQT10	36.63 [930.41]	30.50 [774.70]	31.38 [797.06]	6 - 2.5% 2FCAN, 4FCBN	115	2700 [1215]	F	SCD 2.3

Refer to wiring diagrams for tap details

Opt. W: Wall Mounting Kit "DQTW1" Available

480D Primary Volts

240D Secondary Volts

60 Hz

kVA	Catalog Number	Case Style	Approx. Dimensions Inches [mm]			Full Capacity Taps	°C Temp. Rise	Approx. Weight Lbs.[kg]	Mtg Type W - Wall F - Floor	Wiring Diagram
			Width	Depth	Height					
2	TN2D0002KDKA	DQT1	13.13 [333.51]	9.13 [231.91]	13.38 [339.86]	2 - 5% 1FCAN, 1FCBN	80	74 [33.3]	W/F	SCD 3.3
3	TN2D0003KDKA	DQT1	13.13 [333.51]	9.13 [231.91]	13.38 [339.86]	2 - 5% 1FCAN, 1FCBN	80	78 [35.1]	W/F	SCD 3.3
6	TN2D0006KDKF	DQT2	15.88 [403.36]	9.88 [250.96]	15.38 [390.66]	2 - 5% 1FCAN, 1FCBN	115	140 [63]	W/F	SCD 3.3
9	TN2D0009KDKF	DQT3	19.13 [485.91]	11.88 [301.76]	14.69 [373.13]	2 - 5% 1FCAN, 1FCBN	115	200 [90]	W/F	SCD 3.3
15	TN2D0015KDKF	DQT4	22.38 [568.46]	13.88 [352.56]	17.25 [438.15]	6 - 2.5% 2FCAN, 4FCBN	115	310 [140]	W/F	SCD 4.3
30	TN2D0030KDKF	DQT5	25.88 [657.36]	16.50 [419.10]	21.88 [555.76]	6 - 2.5% 2FCAN, 4FCBN	115	510 [230]	F (Opt. W)	SCD 4.3
45	TN2D0045KDKF	DQT6	26.13 [663.71]	19.75 [501.65]	21.88 [555.76]	6 - 2.5% 2FCAN, 4FCBN	115	635 [286]	F (Opt. W)	SCD 4.3
75	TN2D0075KDKF	DQT7	32.38 [822.46]	22.00 [558.80]	25.63 [651.01]	6 - 2.5% 2FCAN, 4FCBN	115	1180 [531]	F	SCD 4.3
112.5	TN2D0112KDKF	DQT9	36.63 [930.41]	30.75 [781.05]	25.63 [651.01]	6 - 2.5% 2FCAN, 4FCBN	115	2000 [900]	F	SCD 4.3
150	TN2D0150KDKF	DQT10	36.63 [930.41]	30.50 [774.70]	31.38 [797.06]	6 - 2.5% 2FCAN, 4FCBN	115	2700 [1215]	F	SCD 4.3

Refer to wiring diagrams for tap details

Opt. W: Wall Mounting Kit "DQTW1" Available

480D Primary Volts

400Y/231 Secondary Volts

60 Hz

kVA	Catalog Number	Case Style	Approx. Dimensions Inches [mm]			Full Capacity Taps	°C Temp. Rise	Approx. Weight Lbs.[kg]	Mtg Type W - Wall F - Floor	Wiring Diagram
			Width	Depth	Height					
2	TN2A0002KHKA	DQT1	13.13 [333.51]	9.13 [231.91]	13.38 [339.86]	2 - 5% 1FCAN, 1FCBN	80	74 [33.3]	W/F	SCD 1.3
3	TN2A0003KHKA	DQT1	13.13 [333.51]	9.13 [231.91]	13.38 [339.86]	2 - 5% 1FCAN, 1FCBN	80	78 [35.1]	W/F	SCD 1.3
6	TN2A0006KHKF	DQT2	15.88 [403.36]	9.88 [250.96]	15.38 [390.66]	2 - 5% 1FCAN, 1FCBN	115	140 [63]	W/F	SCD 1.3
9	TN2A0009KHKF	DQT3	19.13 [485.91]	11.88 [301.76]	14.69 [373.13]	2 - 5% 1FCAN, 1FCBN	115	200 [90]	W/F	SCD 1.3
15	TN2A0015KHKF	DQT4	22.38 [568.46]	13.88 [352.56]	17.25 [438.15]	6 - 2.5% 2FCAN, 4FCBN	115	310 [140]	W/F	SCD 2.3
30	TN2A0030KHKF	DQT5	25.88 [657.36]	16.50 [419.10]	21.88 [555.76]	6 - 2.5% 2FCAN, 4FCBN	115	510 [230]	F (Opt. W)	SCD 2.3
45	TN2A0045KHKF	DQT6	26.13 [663.71]	19.75 [501.65]	21.88 [555.76]	6 - 2.5% 2FCAN, 4FCBN	115	635 [286]	F (Opt. W)	SCD 2.3
75	TN2A0075KHKF	DQT7	32.38 [822.46]	22.00 [558.80]	25.63 [651.01]	6 - 2.5% 2FCAN, 4FCBN	115	1180 [531]	F	SCD 2.3
112.5	TN2A0112KHKF	DQT9	36.63 [930.41]	30.75 [781.05]	25.63 [651.01]	6 - 2.5% 2FCAN, 4FCBN	115	2000 [900]	F	SCD 2.3
150	TN2A0150KHKF	DQT10	36.63 [930.41]	30.50 [774.70]	31.38 [797.06]	6 - 2.5% 2FCAN, 4FCBN	115	2700 [1215]	F	SCD 2.3

Refer to wiring diagrams for tap details

Opt. W: Wall Mounting Kit "DQTW1" Available

# Selection Tables

HPS Titan N  
Encapsulated Transformer



Hammond  
Power Solutions

## COPPER WOUND, THREE PHASE

600D Primary Volts

208Y/120 Secondary Volts



60 Hz

kVA	Catalog Number	Case Style	Approx. Dimensions Inches [mm]			Full Capacity Taps	°C Temp. Rise	Approx. Weight Lbs.[kg]	Mtg Type W - Wall F - Floor	Wiring Diagram
			Width	Depth	Height					
2	TN2A0002PBKA	DQT1	13.13 [333.51]	9.13 [231.91]	13.38 [339.86]	2 - 5% 1FCAN, 1FCBN	80	74 [33.3]	W/F	SCD 1.3
3	TN2A0003PBKA	DQT1	13.13 [333.51]	9.13 [231.91]	13.38 [339.86]	2 - 5% 1FCAN, 1FCBN	80	78 [35.1]	W/F	SCD 1.3
6	TN2A0006PBKF	DQT2	15.88 [403.36]	9.88 [250.96]	15.38 [390.66]	2 - 5% 1FCAN, 1FCBN	115	140 [63]	W/F	SCD 1.3
9	TN2A0009PBKF	DQT3	19.13 [485.91]	11.88 [301.76]	14.69 [373.13]	2 - 5% 1FCAN, 1FCBN	115	200 [90]	W/F	SCD 1.3
15	TN2A0015PBKF	DQT4	22.38 [568.46]	13.88 [352.56]	17.25 [438.15]	6 - 2.5% 2FCAN, 4FCBN	115	310 [140]	W/F	SCD 2.3
30	TN2A0030PBKF	DQT5	25.88 [657.36]	16.50 [419.10]	21.88 [555.76]	6 - 2.5% 2FCAN, 4FCBN	115	510 [230]	F (Opt. W)	SCD 2.3
45	TN2A0045PBKF	DQT6	26.13 [663.71]	19.75 [501.65]	21.88 [555.76]	6 - 2.5% 2FCAN, 4FCBN	115	635 [286]	F (Opt. W)	SCD 2.3
75	TN2A0075PBKF	DQT7	32.38 [822.46]	22.00 [558.80]	25.63 [651.01]	6 - 2.5% 2FCAN, 4FCBN	115	1180 [531]	F	SCD 2.3
112.5	TN2A0112PBKF	DQT9	36.63 [930.41]	30.75 [781.05]	25.63 [651.01]	6 - 2.5% 2FCAN, 4FCBN	115	2000 [900]	F	SCD 2.3
150	TN2A0150PBKF	DQT10	36.63 [930.41]	30.50 [774.70]	31.38 [797.06]	6 - 2.5% 2FCAN, 4FCBN	115	2700 [1215]	F	SCD 2.3

Refer to wiring diagrams for tap details

Opt. W: Wall Mounting Kit "DQTW1" Available

600D, 480D Primary Volts

480Y/277 Secondary Volts

60 Hz

kVA	Catalog Number	Case Style	Approx. Dimensions Inches [mm]			Full Capacity Taps	°C Temp. Rise	Approx. Weight Lbs.[kg]	Mtg Type W - Wall F - Floor	Wiring Diagram
			Width	Depth	Height					
2	TN2A0002QKKA	DQT1	13.13 [333.51]	9.13 [231.91]	13.38 [339.86]	3 - 5% 1FCAN, 2FCBN	80	79 [35.6]	W/F	SCD 5.3
3	TN2A0003QKKA	DQT1	13.13 [333.51]	9.13 [231.91]	13.38 [339.86]	3 - 5% 1FCAN, 2FCBN	80	85 [38.3]	W/F	SCD 5.3
6	TN2A0006QKKF	DQT2	15.88 [403.36]	9.88 [250.96]	15.38 [390.66]	3 - 5% 1FCAN, 2FCBN	115	150 [68]	W/F	SCD 5.3
9	TN2A0009QKKF	DQT3	19.13 [485.91]	11.88 [301.76]	14.69 [373.13]	3 - 5% 1FCAN, 2FCBN	115	210 [95]	W/F	SCD 5.3
15	TN2A0015QKKF	DQT4	22.38 [568.46]	13.88 [352.56]	17.25 [438.15]	3 - 5% 1FCAN, 2FCBN	115	320 [144]	W/F	SCD 6.3
30	TN2A0030QKKF	DQT5	25.88 [657.36]	16.50 [419.10]	21.88 [555.76]	3 - 5% 1FCAN, 2FCBN	115	520 [234]	F (Opt. W)	SCD 6.3
45	TN2A0045QKKF	DQT6	26.13 [663.71]	19.75 [501.65]	21.88 [555.76]	3 - 5% 1FCAN, 2FCBN	115	665 [300]	F (Opt. W)	SCD 6.3
75	TN2A0075QKKF	DQT7	32.38 [822.46]	22.00 [558.80]	25.63 [651.01]	3 - 5% 1FCAN, 2FCBN	115	1270 [572]	F	SCD 6.3
112.5	TN2A0112QKKF	DQT9	36.63 [930.41]	30.75 [781.05]	25.63 [651.01]	3 - 4.5% 1FCAN, 2FCBN	115	2200 [990]	F	SCD 6.3
150	TN2A0150QKKF	DQT10	36.63 [930.41]	30.50 [774.70]	31.38 [797.06]	3 - 4.5% 1FCAN, 2FCBN	115	2900 [1305]	F	SCD 6.3

Refer to wiring diagrams for tap details

Opt. W: Wall Mounting Kit "DQTW1" Available

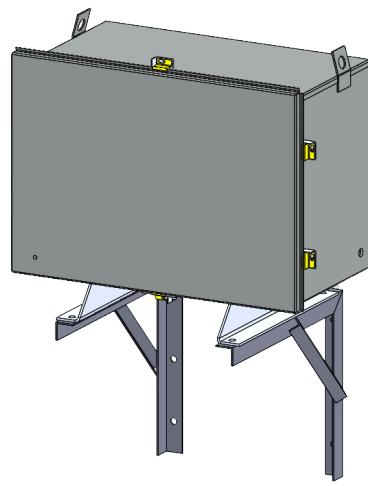
## DQTW1 Wall Mounting Kit

The DQTW1 HPS wall mounting kits are specifically designed for standard and custom HPS Titan® N encapsulated distribution transformers.

The DQTW1 kit is can only be used on any unit up to a maximum of 800 pounds (363 kg) that utilizes an HPS DQT5 or DQT6 enclosure. Generally this would be a 30kVA or 45kVA HPS Titan® N unit.

### IMPORTANT

Please ensure your wall mounting location and position meets all local building and fire codes and regulations



# Typical Performance Data

## Single Phase

**Voltage Range 120V to 600V  
80°C to 115°C Temp. Rise**

kVA	Impedance	Peak Inrush Current Multiple of RMS Current
0.5		
0.75		
1		
1.5		
2		
3		
5		
7.5		
10		
15		
25		
37.5		
	4-7%	Consult HPS
	1-2%	
	2-4%	30 to 40

## Three Phase

**Voltage Range 120V to 600V  
80°C to 115°C Temp. Rise**

kVA	Impedance	Peak Inrush Current Multiple of RMS Current
2	3.5-6.5%	
3		
6		
9	2-5%	
15		
30		
45	1.8-4%	
75		
112.5		
150	1.8-2.5%	
		6-12
		10 to 18
		15 to 20

**Efficiency (% rated load)**

kVA	100%	50%	35%
2	95.02%	95.97%	94.37%
3	95.96%	97.44%	96.71%
6	95.24%	95.75%	94.67%
9	97.38%	98.23%	97.93%
15	97.79%	98.41%	98.15%*
30	98.28%	98.85%	98.75%*
45	98.60%	98.97%	98.84%*
75	98.93%	99.03%	98.82%*
112.5	99.08%	99.03%	98.82%
150	99.15%	99.13%	98.96%

- Efficiencies are approximate, and not guaranteed
- All efficiencies are based on 75°C reference temperature
- Applies only to 115°C rise, with the exception of 2 & 3 kVA
- \*Items from 15-75kVA meet the current minimum efficiency levels in North America (DOE 2016 & NRCan 2019) for ventilated transformers. Note that these efficiency levels are not required for this non-ventilated offering.

# Termination Details

Copper Termination, Leads or Pads



Hammond  
Power Solutions

kVA	Single Phase Voltages (Primary or Secondary)							
	208	240	277	347	380	400	480	600
0.5								
0.75								
1								
1.5								
2								
3								
5								
7.5								
10	1A	1A	1A					
15	1A	1A	1A	1A	1A	1A	1A	1A
25	1B	1B	1B	1A	1A	1A	1A	1A
37.5	1D	1C	1C	1C	1C	1C	1C	1B

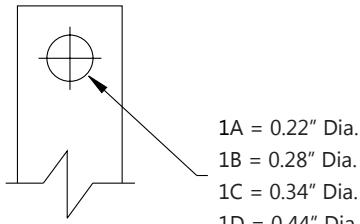


DIAGRAM 1 - Single Phase

kVA	Three Phase Voltages (Primary or Secondary)							
	208	230	240	277	380	400	480	600
2								
3								
6								
9*	1A	1A	1A	1A	1A			
15	1A	1A	1A	1A	1A	1A	1A	1A
30	1A	1A	1A	1A	1A	1A	1A	1A
45	1B	1A						
75	1B	1B	1B	1B	1A	1A	1A	1A
112.5	1B	1B	1B	1B	1B	1B	1B	1A
150	1B	1B	1B	1B	1B	1B	1B	1B

\* Termination Tab 1A provided on 9 kVA 80°C, and 95°C rise only.

Otherwise, 115°C rise have lead wire terminations.

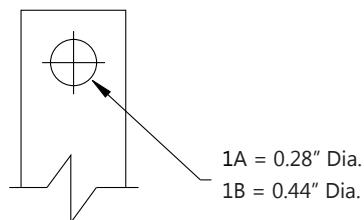
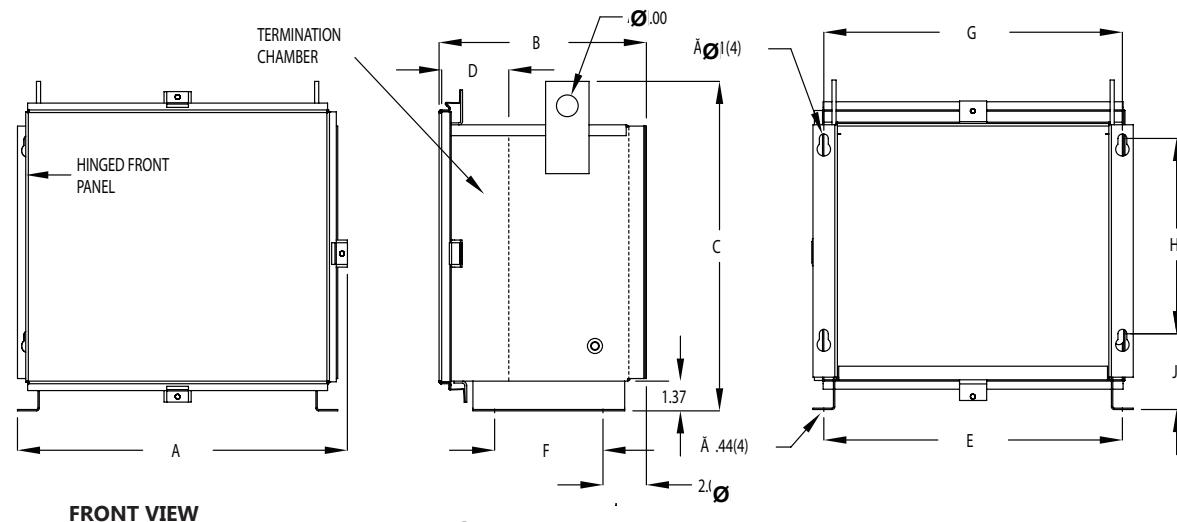


DIAGRAM 1 - Three Phase

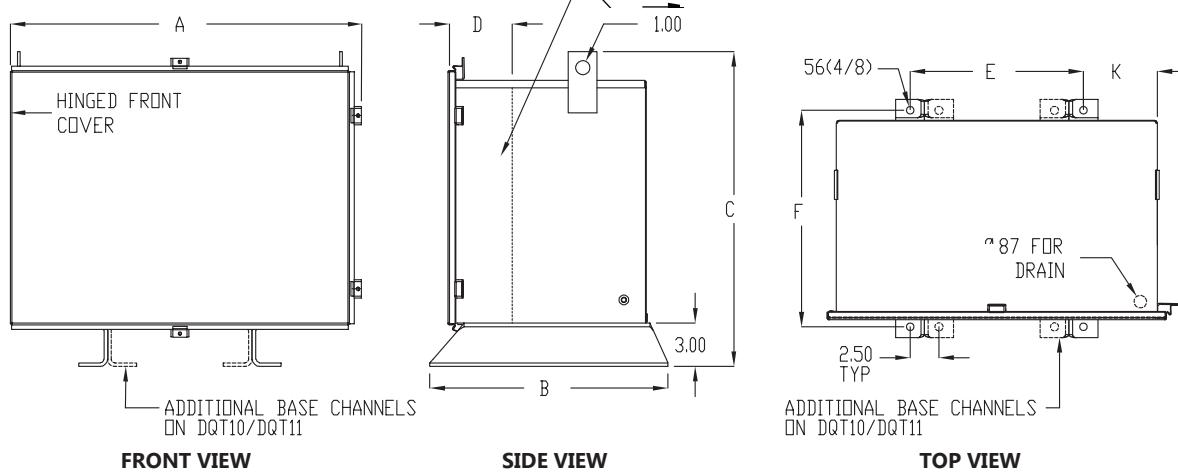
# Enclosure Drawings

## DQT Series - Three Phase

**Figure 1**



**Figure 2**



Case Style	Fig. #	Dimensions in Inches [mm]									
		A	B	C	D*	E	F	G	H	J	K
<b>DQT1</b>	1	13.13 [333.51]	9.13 [231.91]	13.38 [339.86]	2.50 [63.50]	11.50 [292.10]	5.25 [133.35]	11.50 [292.10]	6.50 [165.10]	3.69 [93.73]	-
<b>DQT2</b>	1	15.88 [403.36]	9.88 [250.96]	15.38 [390.66]	2.50 [63.50]	14.25 [361.95]	6.00 [152.40]	14.25 [361.95]	8.00 [203.20]	3.69 [93.73]	-
<b>DQT3</b>	1	19.13 [485.91]	11.88 [301.76]	14.69 [373.13]	3.00 [76.20]	17.50 [444.50]	8.00 [203.20]	17.50 [444.50]	8.00 [203.20]	3.44 [87.38]	-
<b>DQT4</b>	1	22.38 [568.46]	13.88 [352.56]	17.25 [438.15]	5.00 [127.00]	20.75 [527.05]	10.00 [254.00]	20.75 [527.05]	9.00 [228.60]	3.69 [93.73]	-
<b>DQT5</b>	2	25.88 [657.36]	16.50 [419.10]	21.88 [555.76]	4.50 [114.30]	14.00 [355.60]	15.00 [381.00]	-	-	-	4.62 117.35]
<b>DQT6</b>	2	26.13 [663.71]	19.75 [501.65]	21.88 [555.76]	5.50 [139.70]	14.00 [355.60]	18.25 [463.55]	-	-	-	4.75 [120.65]
<b>DQT7</b>	2	32.38 [822.46]	22.00 [558.80]	25.63 [651.01]	6.00 [152.40]	20.00 [508.00]	20.50 [520.70]	-	-	-	4.88 [123.96]
<b>DQT8</b>	2	35.13 [892.31]	26.00 [660.40]	26.63 [676.41]	6.00 [152.40]	20.00 [508.00]	24.50 [622.30]	-	-	-	6.25 158.75]
<b>DQT9</b>	2	36.63 [930.41]	30.75 [781.05]	25.63 [651.01]	6.50 [165.10]	20.00 [508.00]	29.25 [742.95]	-	-	-	7.00 177.80]
<b>DQT10</b>	2	36.63 [930.41]	30.50 [774.70]	31.38 [797.06]	7.00 [177.80]	20.50 [520.70]	29.00 [736.60]	-	-	-	6.75 [171.45]
<b>DQT11</b>	2	38.88 [987.56]	32.25 [819.15]	33.13 [841.51]	7.00 [177.80]	20.50 [520.70]	30.75 [781.05]	-	-	-	7.88 [200.16]

\*D represents the typical minimum depth of the termination chamber (conduit fittings should be sized within these limits)

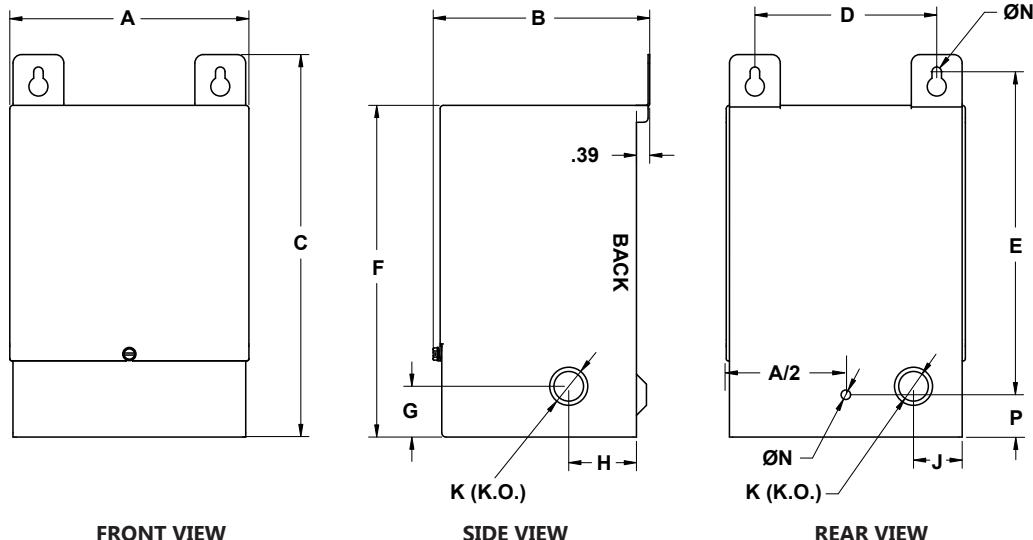
# Enclosure Drawings

NQ Series - Single Phase

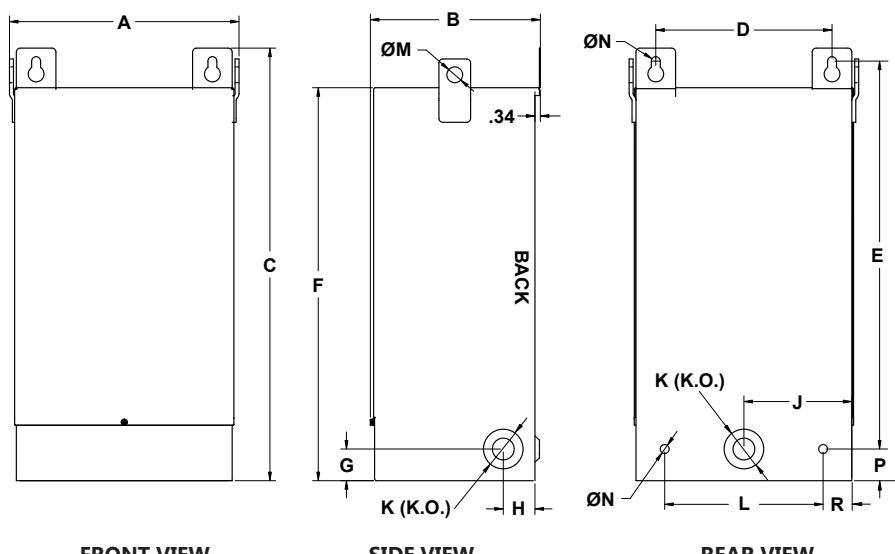


Hammond  
Power Solutions

**Figure 1**



**Figure 2**

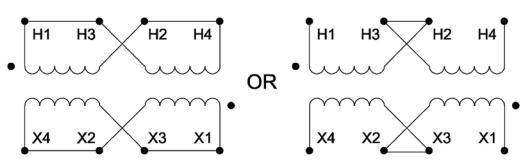


Case Style	Fig. #	Dimensions in Inches [mm]														
		A	B	C	D	E	F	G	H	J	K <sup>1</sup>	L	M	N	P	R
NQ0	1	3.69 [93.73]	5.06 [128.53]	7.19 [182.63]	2.50 [63.50]	5.63 [143.01]	6.19 [157.23]	1.50 [38.10]	2.00 [50.80]	--	0.88 [22.36]	--	--	0.22 [5.59]	1.25 [31.75]	--
NQ1	1	4.31 [109.48]	5.56 [141.23]	7.19 [182.63]	3.13 [79.51]	5.63 [143.01]	6.13 [155.71]	1.50 [38.10]	2.00 [50.80]	0.81 [20.58]	0.88 [22.36]	--	--	0.22 [5.59]	1.25 [31.75]	--
NQ2	1	5.06 [128.53]	4.56 [115.83]	9.30 [236.22]	3.88 [98.56]	7.75 [196.85]	8.30 [210.82]	1.50 [38.10]	2.00 [50.80]	1.00 [25.40]	0.88 X 1.13 X 1.38 [22.36 X 28.71 X 35.06]	--	--	0.22 [5.59]	1.25 [31.75]	--
NQ3	1	5.88 [149.36]	5.19 [131.83]	10.56 [268.23]	4.13 [104.91]	8.31 [211.08]	9.06 [230.13]	1.50 [38.10]	2.00 [50.80]	1.25 [31.75]	0.88 X 1.13 X 1.38 [22.36 X 28.71 X 35.07]	--	--	0.28 [7.12]	1.25 [31.75]	--
NQ4	1	7.06 [179.33]	6.25 [158.75]	11.75 [298.45]	5.38 [136.66]	10.00 [254.00]	10.30 [261.62]	1.25 [31.75]	2.00 [50.80]	1.50 [38.10]	0.88 X 1.13 X 1.38 [22.36 X 28.71 X 35.08]	--	--	0.28 [7.12]	1.25 [31.75]	--
NQ5	2	10.00 [254.00]	7.75 [196.85]	17.25 [438.15]	7.38 [187.46]	15.38 [390.66]	15.25 [387.35]	2.38 [60.33]	2.00 [50.80]	4.00 [101.60]	1.13 X 1.38 [28.71 X 35.06]	6.00 [152.40]	0.75 [19.05]	0.44 [11.18]	1.25 [31.75]	1.68 [42.68]
NQ6	2	12.25 [311.15]	9.25 [234.95]	20.88 [530.36]	9.38 [238.26]	18.13 [460.51]	18.88 [479.56]	2.00 [50.80]	2.00 [50.80]	5.00 [127.00]	1.38 X 2.50 [35.06 X 63.5]	8.00 [203.20]	0.75 [19.05]	0.44 [11.18]	2.00 [50.80]	1.68 [42.68]
NQ7	2	14.50 [368.30]	10.75 [273.05]	21.38 [543.06]	11.63 [295.41]	18.63 [473.21]	19.38 [492.26]	2.00 [50.80]	2.00 [50.80]	6.00 [152.40]	1.38 X 2.50 [35.06 X 63.5]	10.00 [254.00]	0.75 [19.05]	0.44 [11.18]	2.00 [50.80]	1.81 [45.98]
NQ8	2	14.50 [368.30]	10.75 [273.05]	27.38 [695.46]	11.13 [282.71]	24.50 [622.30]	24.88 [631.96]	2.00 [50.80]	2.00 [50.80]	6.00 [152.40]	1.38 X 2.50 [35.06 X 63.5]	10.00 [254.00]	0.75 [19.05]	0.56 [14.23]	2.00 [50.80]	1.81 [45.98]

# Electrical Schematics & Connection Drawings - Single Phase

SCD 1.1

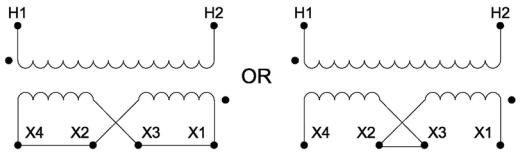
## SCHEMATIC



Primary Volts	Connect lines to	Inter-connect
480	H1, H4	H2-H4
240	H1, H4	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, X4	X1-X3, X2-X4

SCD 2.1

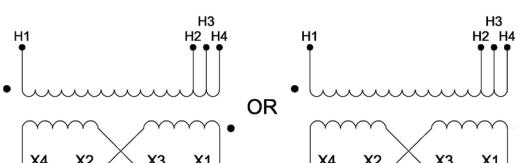
## SCHEMATIC



Primary Volts	Connect lines to	Inter-connect
600	H1, H2	-
Secondary Volts	Connect lines to	Inter-connect
240	X1, X4	X2-X3
120/240	X1, X2, X4	X2-X3
120	X1, X4	X1-X3, X2-X4

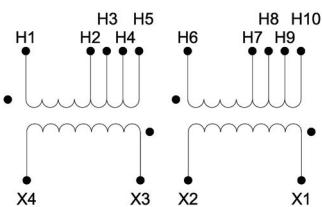
SCD 3.1

## SCHEMATIC

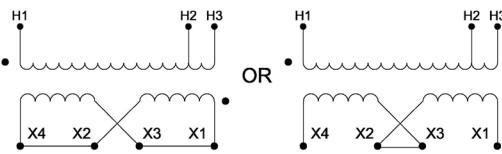


Primary Volts	Connect lines to	Inter-connect
208	H1, H2	-
240	H1, H3	-
277	H1, H4	-
Secondary Volts	Connect lines to	Inter-connect
240	X1, X4	X2-X3
120/240	X1, X2, X4	X2-X3
120	X1, X4	X1-X3, X2-X4

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

**SCD 4.1**
**SCHEMATIC**


Primary Volts	Connect lines to	Inter-connect
440	H1, H10	H5-H6
416	H1, H9	H4-H6
400	H1, H8	H3-H6
380	H1, H7	H2-H6
220	H1, H10	H1-H6, H5-H10
208	H1, H9	H1-H6, H4-H9
200	H1, H8	H1-H6, H3-H8
190	H1, H7	H1-H6, H2-H7
Secondary Volts	Connect lines to	Inter-connect
240	X1, X4	X2-X3
120/240	X1, X2, X4	X2-X3
120	X1, X4	X2-X4, X1-X3

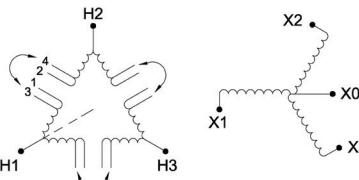
**SCD 5.1**
**SCHEMATIC**


Primary Volts	Connect lines to	Inter-connect
347	H1, H2	-
380	H1, H3	-
Secondary Volts	Connect lines to	Inter-connect
240	X1, X4	X2-X3
120/240	X1, X2, X4	X2-X3
120	X1, X4	X1-X3, X2-X4

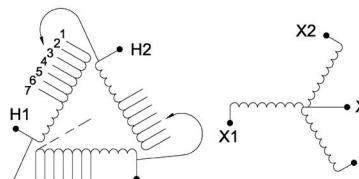
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# Electrical Schematics & Connection Drawings - Three Phase

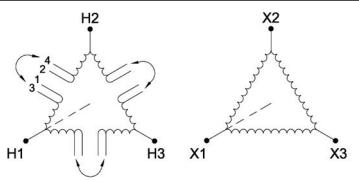
SCD 1.3

SCHEMATIC		CONNECTIONS			
		% Voltage	Primary Volts	Connect lines to	Inter-connect
		105.0%	504	630	H1, H2, H3 1-2
		<b>100.0%</b>	<b>480</b>	<b>600</b>	<b>H1, H2, H3 2-3</b>
		95.0%	456	570	H1, H2, H3 3-4
		Secondary Volts		Connect lines to	Inter-connect
		<b>208</b>	<b>400</b>	X1, X2, X3	-
		120	231	X1, X0   X2, X0   X3, X0	-

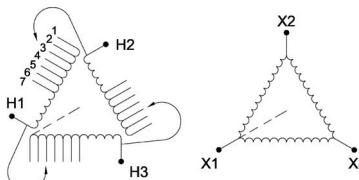
SCD 2.3

SCHEMATIC		CONNECTIONS			
		% Voltage	Primary Volts	Connect lines to	Inter-connect
		105.0%	504	630	H1, H2, H3 1
		102.5%	492	615	H1, H2, H3 2
		<b>100.0%</b>	<b>480</b>	<b>600</b>	<b>H1, H2, H3 3</b>
		97.5%	468	585	H1, H2, H3 4
		95.0%	456	570	H1, H2, H3 5
		92.5%	444	556	H1, H2, H3 6
		90.0%	432	542	H1, H2, H3 7
		Secondary Volts		Connect lines to	Inter-connect
		<b>208</b>	<b>400</b>	X1, X2, X3	-
		120	231	X1, X0   X2, X0   X3, X0	-

SCD 3.3

SCHEMATIC		CONNECTIONS			
		% Voltage	Primary Volts	Connect lines to	Inter-connect
		105.0%	504	H1, H2, H3	1-2
		<b>100.0%</b>	<b>480</b>	<b>H1, H2, H3 2-3</b>	
		95.0%	456	H1, H2, H3	3-4
		Secondary Volts		Connect lines to	Inter-connect
		<b>240</b>		X1, X2, X3	-

SCD 4.3

SCHEMATIC		CONNECTIONS			
		% Voltage	Primary Volts	Connect lines to	Inter-connect
		105.0%	504	H1, H2, H3	1
		102.5%	492	H1, H2, H3	2
		<b>100.0%</b>	<b>480</b>	<b>H1, H2, H3 3</b>	
		97.5%	468	H1, H2, H3	4
		95.0%	456	H1, H2, H3	5
		92.5%	444	H1, H2, H3	6
		90.0%	432	H1, H2, H3	7
		Secondary Volts		Connect lines to	Inter-connect
		<b>240</b>		X1, X2, X3	-

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

**SCD 5.3**

SCHEMATIC		CONNECTIONS			
		% Voltage	Primary Volts	Connect lines to	Inter-connect
		104%	624	600V	1-2 & H1, H2, H3 to 600V
		<b>100%</b>	<b>600</b>	<b>600V</b>	<b>2-3 &amp; H1, H2, H3 to 600V</b>
		96%	576	600V	3-4 & H1, H2, H3 to 600V
		92%	552	600V	4-5 & H1, H2, H3 to 600V
		105%	504	480V	1-2 & H1, H2, H3 to 480V
		<b>100%</b>	<b>480</b>	<b>480V</b>	<b>2-3 &amp; H1, H2, H3 to 480V</b>
		95%	456	480V	3-4 & H1, H2, H3 to 480V
		90%	432	480V	4-5 & H1, H2, H3 to 480V
		Secondary Volts	Connect lines to	Inter-connect	
		480	X1, X2, X3		-

**SCD 6.3**

SCHEMATIC		CONNECTIONS			
		<=75 kVA 115°C, 95°C & 80°C		>=112.5 kVA 115°C, 95°C & 80°C	
		% Voltage	Primary Volts	% Voltage	Primary Volts
		104%	624	103.2%	624
		<b>100%</b>	<b>600</b>	<b>100%</b>	<b>600</b>
		96%	576	96.8%	576
		92%	552	93.6%	552
		105%	504	104.5%	504
		<b>100%</b>	<b>480</b>	<b>100%</b>	<b>480</b>
		95%	456	95.5%	456
		90%	432	91.0%	432
		Secondary Volts		Connect lines to	Inter-connect
		<b>480</b>		X1, X2, X3	-

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