



Low Voltage Encapsulated Transformers



Low Voltage Encapsulated Transformers



For commercial applications where airborne contaminants are present, Micron low voltage encapsulated transformers offer a cost-effective solution that prioritizes safety, quality and ease of installation and maintenance.

The core and coil are completely encapsulated in epoxy and silica. This provides excellent protection against airborne particles and moisture build-up inside the transformer enclosure, significantly reducing the risk of operational interruptions.

Approvals

- UL Listed, file No. E50394
- CSA Certified file No. LR3902



Standard Design

- **Aluminum windings** (on units above 3kVA) - Provide a cost effective solution without compromising on quality and performance.
- **Standard electrostatic shield** (units 750VA and above) - Provides an additional layer of protection against electromagnetic interference, ensuring stable performance.
- **Higher impedance designs** (3 Phase) - Minimizes short circuit currents allowing for the use of more cost-effective protective devices, reducing your overall project expenses.
- **Standard 10kV BIL** (3 Phase) - Provides increased reliability and protection against critical equipment failure (including voltage spikes and other line transients).
- **Improved efficiency level** - Reduces energy costs.

Applications



Shopping Centers



Schools



Sports Complexes



Office Buildings



Lighting



Wastewater



Features & Benefits

Single Phase

Wall Mounting - Installation made quick and easy with keyhole mounting slots and supplied wall mounting template.

Type 3R Enclosure - Suitable for indoor and outdoor applications.

Rear and Side Entry Conduit Knockouts - Provide easy access into a roomy wiring compartment.

Easily Accessible Nameplate - Provides wiring diagram for ease of installation.

Encapsulated in Epoxy & Silica - Protects transformer components from moisture and airborne contaminants, for prolonged operational life.



*Picture displayed above is of a standard single phase unit.

Three Phase

Removable Hinged Door - Allows for convenient access to terminations for easier installation and maintenance.

Textured Paint - Provides excellent durability.

Adjustable Screw Clips With Gasket Stop.

Standard Type 4 Enclosure - Highly suitable for indoor and outdoor applications (optional 4X available).

Lifting Hooks - Pre-installed for improved handling and transportation.

Voltage Taps - Easily accessible for installation via hinged door.

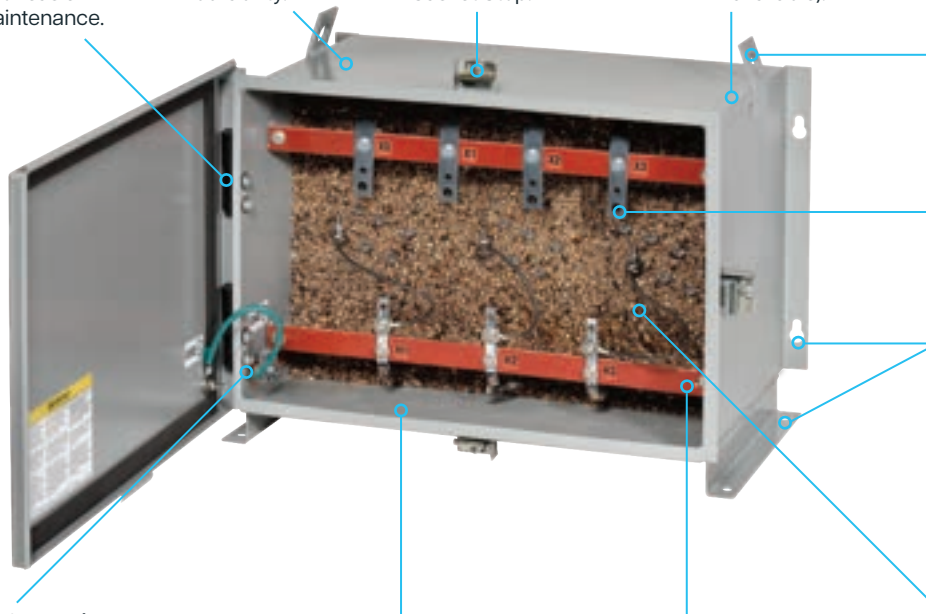
Wall & Floor Mounting (on select kVA's) - Pre-installed reducing the time and effort required for installation, contributing to overall cost savings.

Factory Installed Grounding Lugs - Installed to save you time and money with easy access to the ground.

Optional Breather Drains - Ensures any moisture build-up due to condensation is easily eliminated without compromising the integrity of the Type 4 enclosure.

Separate High & Low Voltage Terminal Boards (15 kVA and up only) - Allowing for safe and easy connections.

Encapsulated in Epoxy & Silica - Protects transformer components from moisture and airborne contaminants, for prolonged operational life.



*Picture displayed above is of a standard three phase unit.

Low Voltage Encapsulated Transformers

Specifications & Accessories

Standard Specifications



Features	Single Phase	Three Phase
kVA:	50VA to 25kVA	3kVA to 75kVA
UL Listed:	E50394	
Frequency:	60Hz (50/60Hz options available for specific voltages groups)	60Hz or 50/60Hz
Shield:	Standard on 750VA and up	Standard on all units
Insulation System:	130°C (95°C rise) up to 1 kVA 180°C (135°C rise) 1.5 to 37.5kVA	135°C rise (220°C class)
Enclosure Type:	Heavy duty enclosed Type 3R standard	Heavy duty enclosed Type 4 standard
Enclosure Finish:	ANSI 61 Grey	ANSI 61 Grey, UL50E textured powered coating
Optional Accessories:	N/A	Glass filled Nylon condensate valve Part number: PLG19000
Standard Primary Taps:	Refer to wiring diagrams for details.	
Termination:	Front accessible separated high and low voltage lead wires or mounting pads.	
Conduit Entry:	Rear and side entry.	Side or bottom enclosure entry (exceptions apply on bottom entry).
Impedance:	Typically 1% to 7%	Typically 2% to 5%
Sound Level:	Meets NEMA ST-20 standards	
Warranty:	10 year limited*	

*Please refer to the Micron website for full details.

Micron Low Voltage Encapsulated Transformers Part Number Guide

Example

Product Family	VA Rating	Const. Type/Phase	Pri & Sec Voltages	Taps	Features & Options
GH	0 3 0 K	3	Q H	1	A 0 4

Product Line:	kVA:	VA Code:	Const. Type/Phase:	Single Phase			Taps:	Features & Options:
				P/N Suffix:	Pri:	Sec:		
GH - General Purpose	0.05	050A	1 = 1Ø Potted	KF	240X480	120X240	1 = No Taps	A04 = 150C Rise, AL
	0.1	100A	2 = 1Ø Ventilated	PF	190/.../220X380/.../440	120X240	2 = +2/-4 X 2.5%	A22 = 80C Rise, CU, ES
	0.15	150A	3 = 3Ø Potted D-Y	RF	600	120X240	3 = ±2 X 2.5%	A66 = 135C Rise, AL, ES
	0.25	250A	4 = 3Ø Potted D-D	SF	120/208/240/277	120X240	4 = +1/-2 X 5.0%	A67 = 95C Rise, CU
	0.5	500A	5 = 3Ø Ventilated D-Y	EF	120X240	120X240	5 = -4 X 2.5%	A71 = 95C Rise, CU, ES
	0.75	750A	6 = 3Ø Ventilated D-D	Three Phase			6 = -2 X 5.0%, -4 X 2.5%	A72 = 135C Rise, CU, ES
	1	001K	7 = 3Ø Ventilated Y-Y	P/N Suffix:	Pri:	Sec:	7 = -1 X 10%, -2 X 5.0%	A80 = 135C Rise, ES, 50/60Hz
	1.5	1X5K					8 = -2 X 5.0%	A81 = 95C Rise, CU, 50/60Hz
	2	002K		HQ	208D	480Y/277	9 = OTHER	A85 = 95C Rise, CU, ES, 50/60Hz
	3	003K		JH	240D	208Y/120		A86 = 135C Rise, CU, ES, 50/60Hz
	5	005K		QH	480D	208Y/120		
	10	010K		QJ	480D	240D/120LT		
	15	015K		QQ	480D	480Y/277		
	25	025K		RH	600D	208Y/120		
	30	030K						
	37.5	037K						
	45	045K						
	50	050K						
	75	075K						
	112.5	112K						
	150	150K						
	225	225K						
	300	300K						

SELECTION TABLES

Aluminum Single Phase, Type 3R Enclosure



120X240 PRIMARY VOLTAGE

120/240 SECONDARY VOLTAGE

60 HZ

kVA	Catalog Number	Case Style	Overall Dimensions* - Inches [mm]			Approx. Weight Lbs [kg]	Mtg Type W -Wall F -Floor	Wiring Diagram
			A	B	C			
1	GH001K1EF1A71*	NQ3	5.88 [149.36]	5.19 [131.83]	10.56 [268.23]	24.0 [10.80]	W	SCD 1F
1.5	GH1X5K1EF1A72*	NQ3	5.88 [149.36]	5.19 [131.83]	10.56 [268.23]	33.0 [14.90]	W	SCD 1F
2	GH002K1EF1A72*	NQ4	7.06 [179.33]	6.25 [158.75]	11.75 [298.45]	42.0 [18.90]	W	SCD 1F
3	GH003K1EF1A72*	NQ4	7.06 [179.33]	6.25 [158.75]	11.75 [298.45]	55.0 [24.80]	W	SCD 1F
5	GH005K1EF1A66	NQ5	10.00 [254.00]	7.75 [196.85]	17.25 [438.15]	96.0 [43.20]	W	SCD 1F
7.5	GH7X5K1EF2A66	NQ6A	12.25 [311.15]	9.25 [234.95]	17.63 [447.81]	148 [67.00]	W	SCD 2F
10	GH010K1EF2A66	NQ6	12.25 [311.15]	9.25 [234.95]	20.88 [530.36]	178 [80.00]	W	SCD 2F
15	GH015K1EF2A66	NQ7	14.50 [368.3]	10.75 [273.05]	21.38 [543.06]	285 [130.00]	W	SCD 2F
25	GH025K1EF2A66	NQ8	14.50 [368.3]	10.75 [273.05]	27.38 [695.46]	405 [184.00]	W	SCD 2F

* Copper wound unit

120/208/240/277 PRIMARY VOLTAGE

120/240 SECONDARY VOLTAGE

60 HZ

kVA	Catalog Number	Case Style	Overall Dimensions* - Inches [mm]			Approx. Weight Lbs [kg]	Mtg Type W -Wall F -Floor	Wiring Diagram
			A	B	C			
0.50	GH500A1SF1A67*	NQ2	5.06 [128.53]	4.56 [115.83]	9.30 [236.22]	25.0 [11.30]	W	SCD 41F
1	GH001K1SF1A71*	NQ3	5.88 [149.36]	5.19 [131.83]	10.56 [268.23]	24.0 [10.80]	W	SCD 41F
1.5	GH1X5K1SF1A72*	NQ3	5.88 [149.36]	5.19 [131.83]	10.56 [268.23]	37.0 [16.70]	W	SCD 41F
2	GH002K1SF1A72*	NQ4	7.06 [179.33]	6.25 [158.75]	11.75 [298.45]	52.0 [23.40]	W	SCD 41F
3	GH003K1SF1A72*	NQ5	10.00 [254.00]	7.75 [196.85]	17.25 [438.15]	65.0 [29.30]	W	SCD 2F
5	GH005K1SF1A66	NQ5	10.00 [254.00]	7.75 [196.85]	17.25 [438.15]	108 [49.00]	W	SCD 2F
7.5	GH7X5K1SF1A66	NQ6	12.25 [311.15]	9.25 [234.95]	20.88 [530.36]	171 [77.00]	W	SCD 2F
10	GH010K1SF1A66	NQ6	12.25 [311.15]	9.25 [234.95]	20.88 [530.36]	183 [82.00]	W	SCD 2F
15	GH015K1SF1A66	NQ7	14.50 [368.3]	10.75 [273.05]	21.38 [543.06]	285 [130.00]	W	SCD 2F
25	GH025K1SF3A66	NQ8	14.50 [368.3]	10.75 [273.05]	27.38 [695.46]	405 [184.00]	W	SCD 2F

* Copper wound unit

240X480 PRIMARY VOLTAGE

120/240 SECONDARY VOLTAGE

60 HZ

kVA	Catalog Number	Case Style	Overall Dimensions* - Inches [mm]			Approx. Weight Lbs [kg]	Mtg Type W -Wall F -Floor	Wiring Diagram
			A	B	C			
0.05	GH050A1KF1A67*	NQ0	3.69 [93.73]	5.06 [128.53]	7.19 [182.63]	7.0 [3.20]	W	SCD 1F
0.10	GH100A1KF1A67*	NQ0	3.69 [93.73]	5.06 [128.53]	7.19 [182.63]	7.0 [3.20]	W	SCD 1F
0.15	GH150A1KF1A67*	NQ0	3.69 [93.73]	5.06 [128.53]	7.19 [182.63]	8.0 [3.60]	W	SCD 1F
0.25	GH250A1KF1A67*	NQ1	4.31 [109.48]	5.56 [141.23]	7.19 [182.63]	9.0 [4.10]	W	SCD 1F
0.50	GH500A1KF1A67*	NQ1	4.31 [109.48]	5.56 [141.23]	7.19 [182.63]	16.0 [7.20]	W	SCD 1F
0.75	GH750A1KF1A71*	NQ2	5.06 [128.53]	4.56 [115.83]	9.30 [236.22]	23.0 [10.40]	W	SCD 1F
1	GH001K1KF1A71*	NQ3	5.88 [149.36]	5.19 [131.83]	10.56 [268.23]	24.0 [10.80]	W	SCD 1F
1.5	GH1X5K1KF1A72*	NQ3	5.88 [149.36]	5.19 [131.83]	10.56 [268.23]	33.0 [14.90]	W	SCD 1F
2	GH002K1KF1A72*	NQ4	7.06 [179.33]	6.25 [158.75]	11.75 [298.45]	42.0 [18.90]	W	SCD 1F
3	GH003K1KF1A72*	NQ4	7.06 [179.33]	6.25 [158.75]	11.75 [298.45]	55.0 [24.80]	W	SCD 1F
5	GH005K1KF1A66	NQ5	10.00 [254.00]	7.75 [196.85]	17.25 [438.15]	115 [52.00]	W	SCD 1F
7.5	GH7X5K1KF2A66	NQ6A	12.25 [311.15]	9.25 [234.95]	17.63 [447.81]	148 [67.00]	W	SCD 2F
10	GH010K1KF2A66	NQ6	12.25 [311.15]	9.25 [234.95]	20.88 [530.36]	179 [81.00]	W	SCD 2F
15	GH015K1KF2A66	NQ7	14.50 [368.30]	10.75 [273.05]	21.38 [543.06]	265 [119.00]	W	SCD 2F
25	GH025K1KF1A66	NQ8	14.50 [368.30]	10.75 [273.05]	27.38 [695.46]	385 [173.00]	W	SCD 2F

* Copper wound unit

SELECTION TABLES

Aluminum Wound Single Phase, Type 3R Enclosure



600 PRIMARY VOLTAGE

120/240 SECONDARY VOLTAGE

60 HZ

kVA	Catalog Number	Case Style	Overall Dimensions* - Inches [mm]			Approx. Weight Lbs [kg]	Mtg Type W -Wall F -Floor	Wiring Diagram
			A	B	C			
0.50	GH500A1RF1A67*	NQ1	4.31 [109.48]	5.56 [141.23]	7.19 [182.63]	16.0 [7.20]	W	SCD 4F
1	GH001K1RF1A71*	NQ3	5.88 [149.36]	5.19 [131.83]	10.56 [268.23]	24.0 [10.80]	W	SCD 4F
1.5	GH1X5K1RF1A72*	NQ3	5.88 [149.36]	5.19 [131.83]	10.56 [268.23]	33.0 [14.90]	W	SCD 4F
2	GH002K1RF1A72*	NQ4	7.06 [179.33]	6.25 [158.75]	11.75 [298.45]	42.0 [18.90]	W	SCD 4F
3	GH003K1RF1A72*	NQ4	7.06 [179.33]	6.25 [158.75]	11.75 [298.45]	55.0 [24.80]	W	SCD 4F
5	GH005K1RF1A66	NQ5	10.00 [254.00]	7.75 [196.85]	17.25 [438.15]	120 [54.00]	W	SCD 4F
7.5	GH7X5K1RF8A66	NQ6A	12.25 [311.15]	9.25 [234.95]	17.63 [447.81]	148 [67.00]	W	SCD 5F
10	GH010K1RF8A66	NQ6	12.25 [311.15]	9.25 [234.95]	20.88 [530.36]	179 [81.00]	W	SCD 5F
15	GH015K1RF8A66	NQ7	14.50 [368.30]	10.75 [273.05]	21.38 [543.06]	265 [119.00]	W	SCD 5F
25	GH025K1RF3A66	NQ8	14.50 [368.30]	10.75 [273.05]	27.38 [695.46]	385 [173.00]	W	SCD 5F

* Copper wound unit

Export Model

190/200/208/220/240¹ X 380/400/416/440/480¹ PRIMARY VOLTAGE

120/240 SECONDARY VOLTAGE

50/60 HZ

kVA	Catalog Number	Case Style	Overall Dimensions* - Inches [mm]			Approx. Weight Lbs [kg]	Mtg Type W -Wall F -Floor	Wiring Diagram
			A	B	C			
0.50	GH500A1PF1A81*	NQ1	4.31 [109.48]	5.56 [141.23]	7.19 [182.63]	16.0 [7.20]	W	SCD 28F
1	GH001K1PF1A85*	NQ3	5.88 [149.36]	5.19 [131.83]	10.56 [268.23]	32.0 [14.40]	W	SCD 28F
1.5	GH1X5K1PF1A86*	NQ4	7.06 [179.33]	6.25 [158.75]	11.75 [298.45]	37.0 [16.70]	W	SCD 28F
2	GH002K1PF1A86*	NQ4	7.06 [179.33]	6.25 [158.75]	11.75 [298.45]	52.0 [23.40]	W	SCD 28F
3	GH003K1PF1A86*	NQ5	10.00 [254.00]	7.75 [196.85]	17.25 [438.15]	97.0 [43.70]	W	SCD 2F
5	GH005K1PF1A80	NQ5	10.00 [254.00]	7.75 [196.85]	17.25 [438.15]	120 [54.00]	W	SCD 2F
7.5	GH7X5K1PF1A80	NQ6A	12.25 [311.15]	9.25 [234.95]	17.63 [447.81]	148 [67.00]	W	SCD 2F
10	GH010K1PF1A80	NQ6	12.25 [311.15]	9.25 [234.95]	20.88 [530.36]	179 [81.00]	W	SCD 2F
15	GH015K1PF1A80	NQ7	14.50 [368.3]	10.75 [273.05]	21.38 [543.06]	285 [130.00]	W	SCD 2F

* Copper wound unit

Note ¹: The primary voltage ratio of 240 or 480 is available at 60Hz only with a secondary voltage of approximately 130/262V

SELECTION TABLES

Aluminum Wound Three Phase, Type 4 Enclosure



240D PRIMARY VOLTAGE

208Y/120 SECONDARY VOLTAGE

60 HZ

kVA	Catalog Number	Case Style	Overall Dimensions* - Inches [mm]			Full Capacity Taps	Approx. Weight Lbs [kg]	Mtg Type W -Wall F -Floor	Wiring Diagram
			A	B	C				
9	GH009K3JH9A66	DQT3A	20.38 [517.65]	13.00 [330.20]	16.38 [416.05]	2 - 5% 1FCAN, 1FCBN	215 [97.52]	W/F	SCD 8F
15	GH015K3JH9A66	DQT5	25.88 [657.35]	16.50 [419.10]	21.88 [555.75]	2 - 5% 1FCAN, 1FCBN	375 [170.10]	F (Opt. W)	SCD 8F
30	GH030K3JH9A66	DQT6	26.13 [663.70]	19.75 [501.65]	21.88 [555.75]	2 - 5% 1FCAN, 1FCBN	510 [231.33]	F (Opt. W)	SCD 8F
45	GH045K3JH9A66	DQT7	32.38 [822.45]	22.00 [558.80]	25.63 [651.00]	2 - 5% 1FCAN, 1FCBN	690 [312.98]	F	SCD 8F

Refer to wiring diagrams for tap details

Opt. W: Wall Mounting Kit DQTW1 Available

480D PRIMARY VOLTAGE

208Y/120 SECONDARY VOLTAGE

60 HZ

kVA	Catalog Number	Case Style	Overall Dimensions* - Inches [mm]			Full Capacity Taps	Approx. Weight Lbs [kg]	Mtg Type W -Wall F -Floor	Wiring Diagram
			A	B	C				
3	GH003K3QH9A22	DQT1	13.13 [333.00]	9.13 [232.00]	13.38 [340.00]	2 - 5% 1FCAN, 1FCBN	78 [35.10]	W/F	SCD 8F
6	GH006K3QH9A66	DQT3	19.13 [485.90]	11.88 [301.75]	14.69 [373.13]	2 - 5% 1FCAN, 1FCBN	160 [72.57]	W/F	SCD 8F
9	GH009K3QH9A66	DQT3A	20.38 [517.65]	13.00 [330.20]	16.38 [416.05]	2 - 5% 1FCAN, 1FCBN	215 [97.52]	W/F	SCD 8F
15	GH015K3QH2A66	DQT5	25.88 [657.35]	16.50 [419.10]	21.88 [555.75]	6 - 2.5% 2FCAN, 4FCBN	375 [170.10]	F (Opt. W)	SCD 19F
30	GH030K3QH2A66	DQT6	26.13 [663.70]	19.75 [501.65]	21.88 [555.75]	6 - 2.5% 2FCAN, 4FCBN	510 [231.33]	F (Opt. W)	SCD 19F
45	GH045K3QH2A66	DQT7	32.38 [822.45]	22.00 [558.80]	25.63 [651.00]	6 - 2.5% 2FCAN, 4FCBN	690 [312.98]	F	SCD 19F
75	GH075K3QH2A66	DQT8	35.13 [892.30]	26.00 [660.40]	26.63 [676.40]	6 - 2.5% 2FCAN, 4FCBN	1350 [612.35]	F	SCD 19F

Refer to wiring diagrams for tap details

Opt. W: Wall Mounting Kit DQTW1 Available

480D PRIMARY VOLTAGE

240D/120LT SECONDARY VOLTAGE

60 HZ

kVA	Catalog Number	Case Style	Overall Dimensions* - Inches [mm]			Full Capacity Taps	Approx. Weight Lbs [kg]	Mtg Type W -Wall F -Floor	Wiring Diagram
			A	B	C				
3	GH003K3QJ9A22	DQT1	13.13 [333.00]	9.13 [232.00]	13.38 [340.00]	2 - 5% 1FCAN, 1FCBN	68 [31.00]	W/F	SCD 9F
6	GH006K3QJ9A66	DQT3	19.13 [485.90]	11.88 [301.75]	14.69 [373.13]	2 - 5% 1FCAN, 1FCBN	156 [71.00]	W/F	SCD 9F
9	GH009K3QJ9A66	DQT3A	20.38 [517.65]	13.00 [330.20]	16.38 [416.05]	2 - 5% 1FCAN, 1FCBN	195 [89.00]	W/F	SCD 9F
15	GH015K3QJ2A66	DQT5	25.88 [657.35]	16.50 [419.10]	21.88 [555.75]	6 - 2.5% 2FCAN, 4FCBN	325 [148.00]	F (Opt. W)	SCD 21F
30	GH030K3QJ2A66	DQT6	26.13 [663.70]	19.75 [501.65]	21.88 [555.75]	6 - 2.5% 2FCAN, 4FCBN	455 [207.00]	F (Opt. W)	SCD 21F
45	GH045K3QJ2A66	DQT7	32.38 [822.45]	22.00 [558.80]	25.63 [651.00]	6 - 2.5% 2FCAN, 4FCBN	690 [312.98]	F	SCD 21F

Refer to wiring diagrams for tap details

Opt. W: Wall Mounting Kit DQTW1 Available

SELECTION TABLES

Aluminum Wound Three Phase, Type 4 Enclosure



480D PRIMARY VOLTAGE			480Y/277 SECONDARY VOLTAGE			60 HZ			
kVA	Catalog Number	Case Style	Overall Dimensions* - Inches [mm]			Full Capacity Taps	Approx. Weight Lbs [kg]	Mtg Type W -Wall F -Floor	Wiring Diagram
			A	B	C				
9	GH009K3QQ9A66	DQT3A	20.38 [517.65]	13.00 [330.20]	16.38 [416.05]	2 - 5% 1FCAN, 1FCBN	195 [89.00]	W/F	SCD 8F
15	GH015K3QQ2A66	DQT5	25.88 [657.35]	16.50 [419.10]	21.88 [555.75]	6 - 2.5% 2FCAN, 4FCBN	365 [166.00]	F (Opt. W)	SCD 19F
30	GH030K3QQ2A66	DQT6	26.13 [663.70]	19.75 [501.65]	21.88 [555.75]	6 - 2.5% 2FCAN, 4FCBN	510 [231.00]	F (Opt. W)	SCD 19F
45	GH045K3QQ2A66	DQT7	32.38 [822.45]	22.00 [558.80]	25.63 [651.00]	6 - 2.5% 2FCAN, 4FCBN	635 [289.00]	F	SCD 19F

Refer to wiring diagrams for tap details

Opt. W: Wall Mounting Kit DQTW1 Available

600D PRIMARY VOLTAGE			208Y/120 SECONDARY VOLTAGE			60 HZ			
kVA	Catalog Number	Case Style	Overall Dimensions* - Inches [mm]			Full Capacity Taps	Approx. Weight Lbs [kg]	Mtg Type W -Wall F -Floor	Wiring Diagram
			A	B	C				
9	GH009K3RH9A66	DQT3A	20.38 [517.65]	13.00 [330.20]	16.38 [416.05]	2 - 5% 1FCAN, 1FCBN	215 [97.52]	W/F	SCD 8F
15	GH015K3RH2A66	DQT5	25.88 [657.35]	16.50 [419.10]	21.88 [555.75]	6 - 2.5% 2FCAN, 4FCBN	375 [170.10]	F (Opt. W)	SCD 19F
30	GH030K3RH2A66	DQT6	26.13 [663.70]	19.75 [501.65]	21.88 [555.75]	6 - 2.5% 2FCAN, 4FCBN	510 [231.33]	F (Opt. W)	SCD 19F
45	GH045K3RH2A66	DQT7	32.38 [822.45]	22.00 [558.80]	25.63 [651.00]	6 - 2.5% 2FCAN, 4FCBN	690 [312.98]	F	SCD 19F

Refer to wiring diagrams for tap details

Opt. W: Wall Mounting Kit DQTW1 Available

ACCESSORIES

Wall Mounting Kit

Single Phase

The following wall mounting kits are available:

Enclosure Case Style*	Mounting Type	Wall Mounting Kit Part Number
NQ0-NQ8	Wall	Included
NQS10	Wall or Floor	NQTW2

Features Included

- Manufactured from heavy-duty angle steel for maximum support.
- Wall mounting brackets are finished in matching ANSI 61 UL 50 Grey.
- All hardware required to attach to the transformer is supplied.
- Mounting brackets come with three wall mounting holes for maximum holding strength.

Three Phase

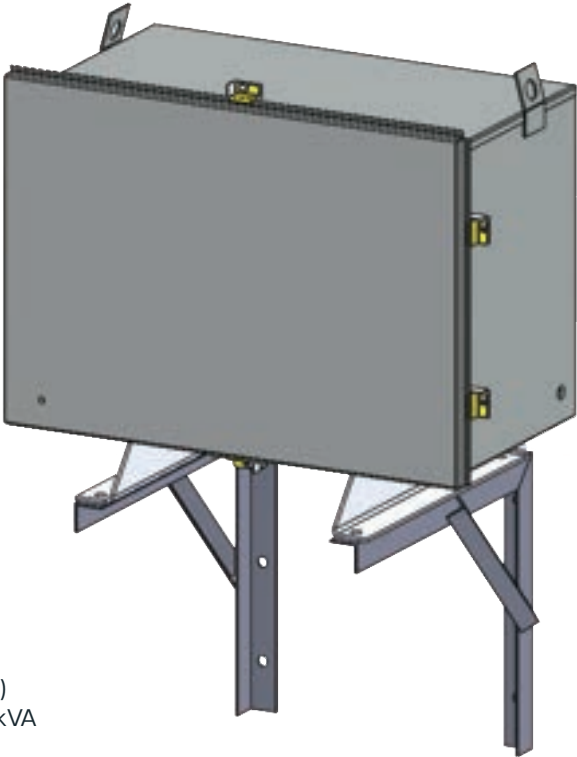
The following wall mounting kit is specifically designed for the three phase Micron encapsulated transformers for commercial applications:

Enclosure Case Style*	Mounting Type	Wall Mounting Kit Part Number
DQT5-DQT6	Wall	DQTW1

The DQTW1 kit can only be used on any unit, up to a maximum of 800 pounds (363 kg) and utilizes a Micron DQT5 or DQT6 enclosure. Generally, this would be a 15kVA or 30kVA Micron encapsulated transformers for commercial application units.

IMPORTANT

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



Note: The above image is showing a three phase unit.

TYPICAL PERFORMANCE DATA

GENERAL PURPOSE

Three Phase

VOLTAGE RANGE 120V TO 600V
135°C TEMP. RISE

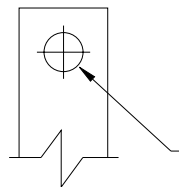
kVA	Impedance	Peak Inrush Current Multiple of RMS Current
6	2-5%	20 to 30
9		
15		
30	1.8-2.5%	10 to 20
45		
75		

TERMINATION TABLES

TERMINATION, LEADS OR PADS

Single Phase Voltage (Primary or Secondary)

kVA	Voltage										
	120x240	120/240	208x416	120/208/240/277	240x480	277	277/480	208/277	347/380	600	
0.05											
0.1											
0.15											
0.25											
0.35											
0.5											
0.75											
1											
1.5											
2											
3											
5											
7.5	LUG1	1A	LUG1	LUG1	LUG1	LUG1	LUG1	1A	LUG1	LUG1	LUG1
10	LUG1	1A	LUG1	LUG1	LUG2	LUG1	LUG1	1B	LUG1	LUG1	LUG1
15	N/A	1A	N/A	N/A	LUG2	N/A	N/A	N/A	N/A	1A	LUG1
25	N/A	1B	N/A	N/A	LUG3	N/A	N/A	N/A	N/A	1A	N/A

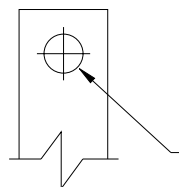


1A = 0.22" Dia.
1B = 0.28" Dia.
1C = 0.34" Dia.
1D = 0.44" Dia.

Diagram 1 - Single Phase

Three Phase Voltage (Primary or Secondary)

kVA	Voltage							
	208	230	240	277	380	400	480	600
6								
9								
15	1A	1A	1A	1A	1A	1A	1A	1A
30	1A	1A	1A	1A	1A	1A	1A	1A
45	1B	1A	1A	1A	1A	1A	1A	1A
75	1B	1B	1B	1B	1A	1A	1A	1A



1A = 0.28" Dia.
1B = 0.44" Dia.

Diagram 1 - Three Phase

ENCLOSURE DRAWING & DIMENSIONS

NQ SERIES - SINGLE PHASE

Figure 1

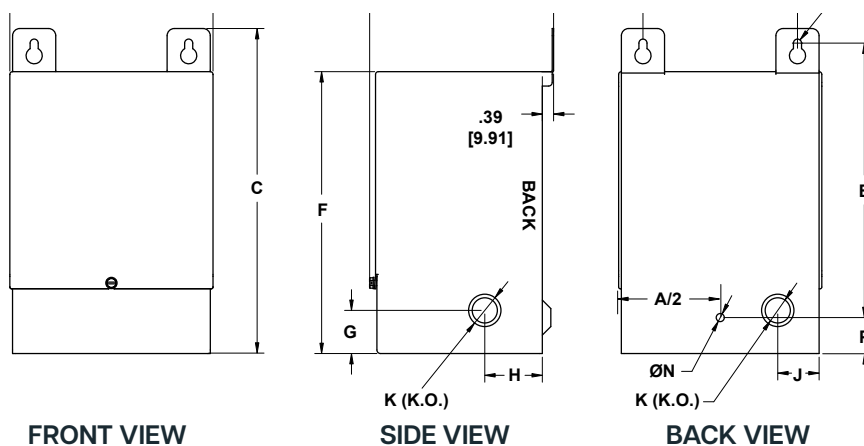
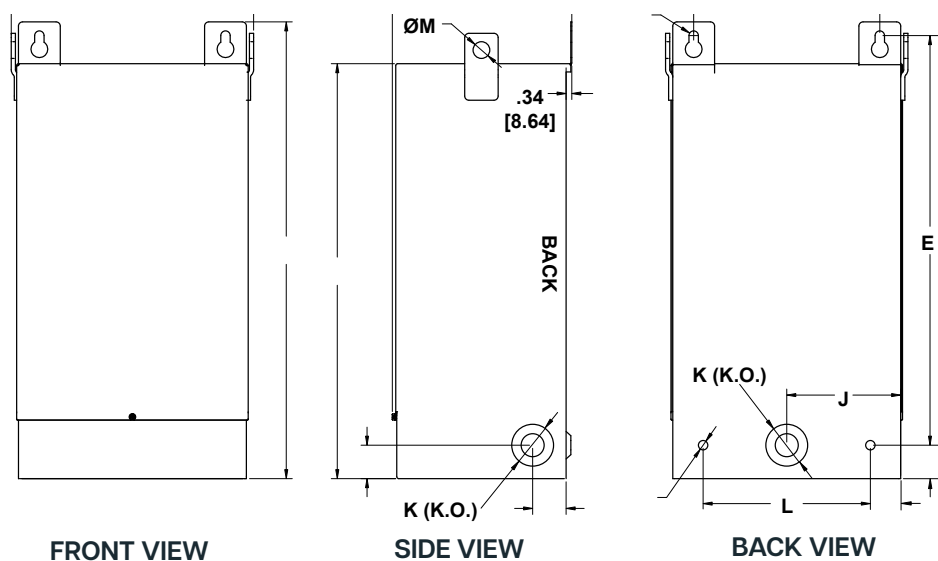


Figure 2



Case Style	Fig #	A	B	C	D	E	F	G	H	J	K ¹	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 35.06]	--	--	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 35.06]	--	--	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]	2.375 [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]
NQ6A	2	12.25 [311.15]	9.25 [234.95]	17.63 [447.81]	9.38 [238.26]	14.88 [377.96]	15.56 [395.23]	2.00 [50.80]	2.00 [50.80]	5.00 [127.00]	1.38 x 2.50 [35.06 x 63.50]	8.00 [203.20]	0.75 [19.05]	0.44 [11.18]	2.00 [50.80]	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 63.50]	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 63.50]	10.00 [254.00]	0.75 [19.05]	0.44 [11.18]	2.00 [50.80]	1.68 [42.68]
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 63.50]	10.00 [254.00]	0.75 [19.05]	0.56 [14.23]	2.00 [50.80]	1.68 [42.68]

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

ENCLOSURE DRAWINGS & DIMENSIONS

DQT SERIES - THREE PHASE

Figure 1

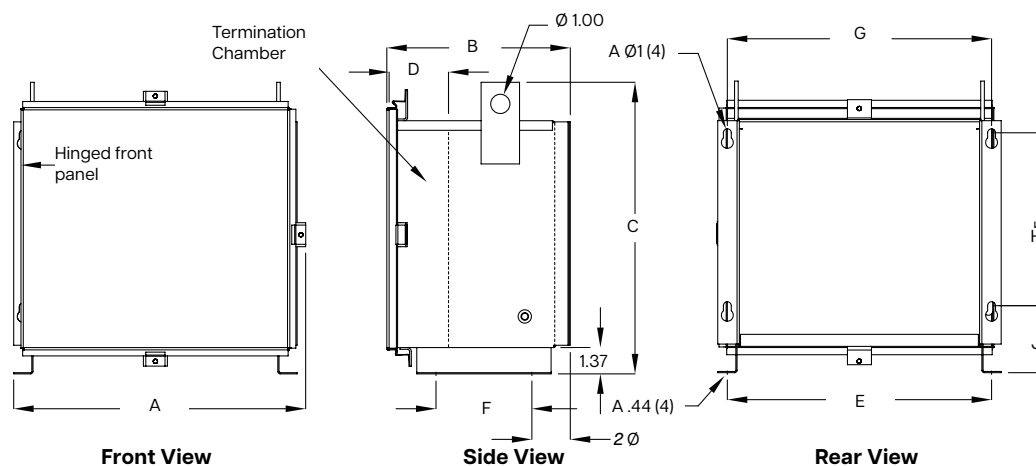
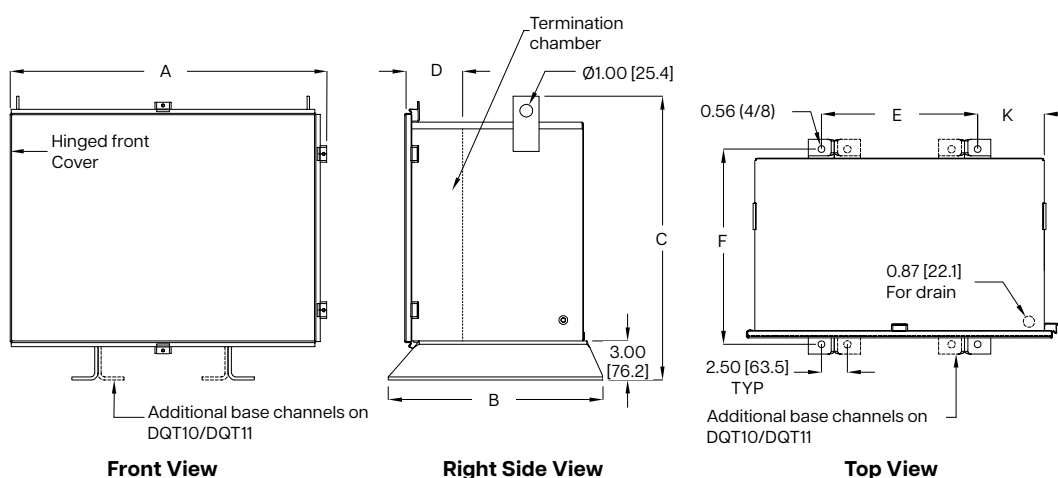


Figure 2



Case Style	Fig. #	Dimensions in Inches [Millimeter]									
		A	B	C	D*	E	F	G	H	J	K
DQT1	1	13.13 [333]	9.13 [232]	13.38 [340]	2.50 [63]	11.50 [292]	5.25 [133]	11.50 [292]	6.50 [165]	3.69 [94]	-
DQT2	1	15.88 [403]	9.88 [251]	15.38 [391]	2.50 [63]	14.25 [362]	6.00 [152]	14.25 [362]	8.00 [203]	3.69 [94]	-
DQT3	1	19.13 [485]	11.88 [302]	14.69 [373]	3.00 [76]	17.50 [444]	8.00 [203]	17.50 [444]	8.00 [203]	3.44 [87]	-
DQ3A	1	20.38 [518]	13.00 [330]	16.38 [416]	3.0 [76]	18.75 [476]	9.00 [229]	18.75 [476]	9.00 [229]	3.44 [87]	-
DQT4	1	22.38 [569]	13.88 [352]	17.25 [438]	5.00 [127]	20.75 [527]	10.00 [254]	20.75 [527]	9.00 [229]	3.69 [94]	-
DQT5	2	25.88 [657]	16.50 [419]	21.88 [556]	4.50 [114]	14.00 [356]	15.00 [381]	-	-	-	4.62 [117]
DQT6	2	26.13 [664]	19.75 [501]	21.88 [556]	5.50 [140]	14.00 [356]	18.25 [463]	-	-	-	4.75 [121]
DQT7	2	32.38 [822]	22.00 [559]	25.63 [651]	6.00 [152]	20.00 [508]	20.50 [521]	-	-	-	4.88 [124]
DQT8	2	35.13 [892]	26.00 [660]	26.63 [676]	6.00 [152]	20.00 [508]	24.50 [622]	-	-	-	6.25 [159]

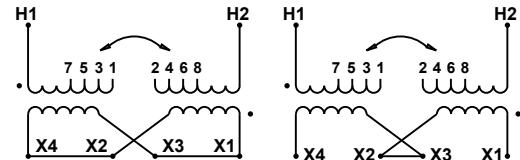
*D represents the typical minimum depth of the termination chamber (conduit fittings should be sized within these limits)

ELECTRICAL SCHEMATICS & CONNECTION DRAWINGS

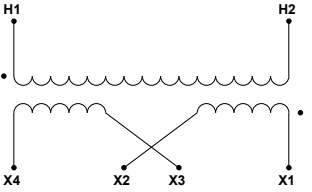
SCD 1F

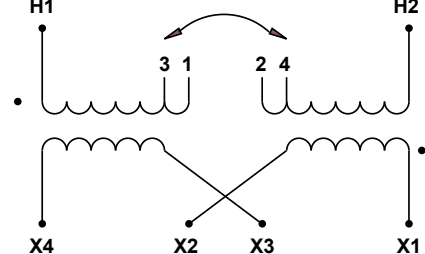
Schematic		Connections	
	Primary Volts	Connect lines to	Inter-connect
		H1, H4	H2-H3
	240 480	H1, H4	H1-H3, H2-H4
	120 240	H1, H4	H1-H3, H2-H4
	Secondary Volts	Connect lines to	Inter-connect
	240	X1, X4	X2-X3
	120/240	X1, X2, X4	X2-X3
	120	X1, X2	X2-X4, X1-X3

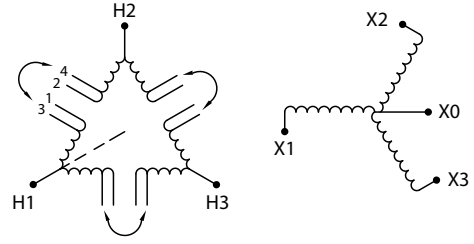
SCD 2F

Schematic		Connections					
	% Voltage	Primary Volts				Connect lines to	Inter-connect
	105.0%	252	277	440	504	H1 H2	1-2
	102.5%	246			492	H1, H2	2-3
	100.0%	240	240	416	480	H1 H2	3-4
	97.5%	234			468	H1, H2	4-5
	95.0%	228	208	400	456	H1, H2	5-6
	92.5%	222			444	H1, H2	6-7
	90.0%	216	120	380	432	H1, H2	7-8
			220			H1, H2	H1-2, H2-1
		120		208	240	H1, H2	H1-4, H2-3
		114		200	228	H1, H2	H1-6, H2-5
		108		190	216	H1, H2	H1-8, H2-7
		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

ELECTRICAL SCHEMATICS & CONNECTION DRAWINGS

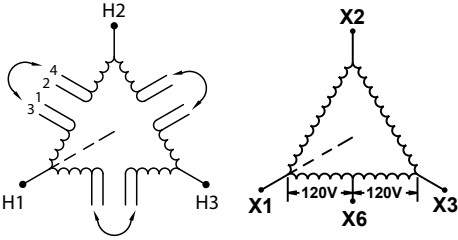
SCD 4F			
Schematic 	Connections		
	Primary Volts	Connect lines to	Inter-connect
	600	H1, H2	-
	Secondary Volts	Connect lines to	Inter-connect
	240	X1, X4	X2-X3
	120/240	X1, X2, X4	X2-X3
	120	X1, X2	X2-X4, X1-X3

SCD 5F				
Schematic 	Connections			
	% Voltage	Primary Volts	Connect lines to	Inter-connect
	100.0%	600	H1, H2	1-2
	95.0%	570	H1, H2	2-3
	90.0%	540	H1, H2	3-4
	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 8F					
Schematic 	Connections				
	% Voltage	Primary Volts			Inter-connect
	105.0%	252	504	630	1-2
	100.0%	240	480	600	2-3
	95.0%	228	456	570	3-4
	Secondary Volts	Connect lines to			Inter-connect
	208	X1, X2, X3			-
	120	X1, X0 X2, X0 X3, X0			-

ELECTRICAL SCHEMATICS & CONNECTION DRAWINGS

SCD 9F

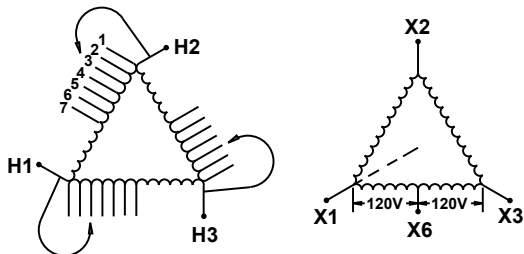
Schematic		Connections		
	% Voltage	Primary Volts	Connect lines to	Inter-connect
	105.0%	504	H1, H2, H3	1-2
	100.0%	480	H1, H2, H3	2-3
	95.0%	456	H1, H2, H3	3-4
	Secondary Volts		Connect lines to	Inter-connect
		240	X1, X2, X3	-
		120	X1, X6 X3, X6	-

SCD 19F

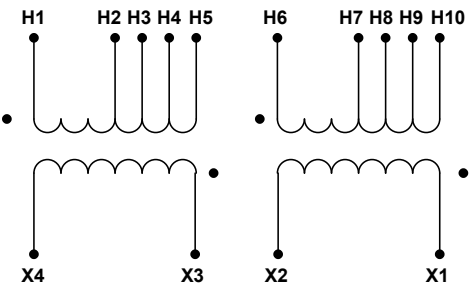
Schematic		Connections			
	% Voltage	Primary Volts		Connect lines to	Inter-connect
	105.0%	504	630	H1, H2, H3	1
	102.5%	492	615	H1, H2, H3	2
	100.0%	480	600	H1, H2, H3	3
	97.5%	468	585	H1, H2, H3	4
	95.0%	456	570	H1, H2, H3	5
	92.5%	445	556	H1, H2, H3	6
	90.0%	434	542	H1, H2, H3	7
	Secondary Volts		Connect lines to	Inter-connect	
	208		X1, X2, X3	-	
	120		X1, X0 X2, X0 X3, X0	-	

ELECTRICAL SCHEMATICS & CONNECTION DRAWINGS

SCD 21F

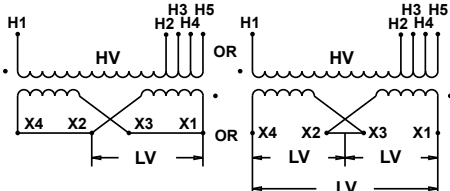
Schematic	Connections			
	% Voltage	Primary Volts	Connect lines to	Inter-connect
	105.0%	504	H1, H2, H3	1
	102.5%	492	H1, H2, H3	2
	100.0%	480	H1, H2, H3	3
	97.5%	468	H1, H2, H3	4
	95.0%	456	H1, H2, H3	5
	92.5%	444	H1, H2, H3	6
	90.0%	432	H1, H2, H3	7
	Secondary Volts	Connect lines to		Inter-connect
	240	X1, X2, X3		-
	120	X1, X6 X3, X6		-

SCD 28F

Schematic	Connections		
	Primary Volts	Connect lines to	Inter-connect
	480 (60Hz)	H1, H10	H5-H6
	440	H1, H10	H5-H6
	416	H1, H9	H4-H6
	400	H1, H8	H3-H6
	380	H1, H7	H2-H6
	240 (60Hz)	H1, H10	H1-H6, H5-H10
	220	H1, H10	H1-H6, H5-H10
	208	H1, H9	H1-H6, H5-H10
	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

ELECTRICAL SCHEMATICS & CONNECTION DRAWINGS

SCD 41F

Schematic	Connections		
	Primary Volts	Connect lines to	Inter-connect
	277	H1, H5	-
	240	H1, H4	-
	208	H1, H3	-
	120	H1, H2	-
	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

NOTES

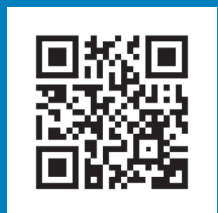
Low Voltage Encapsulated Transformers

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LVENSP-BBI2-EN
December 2025