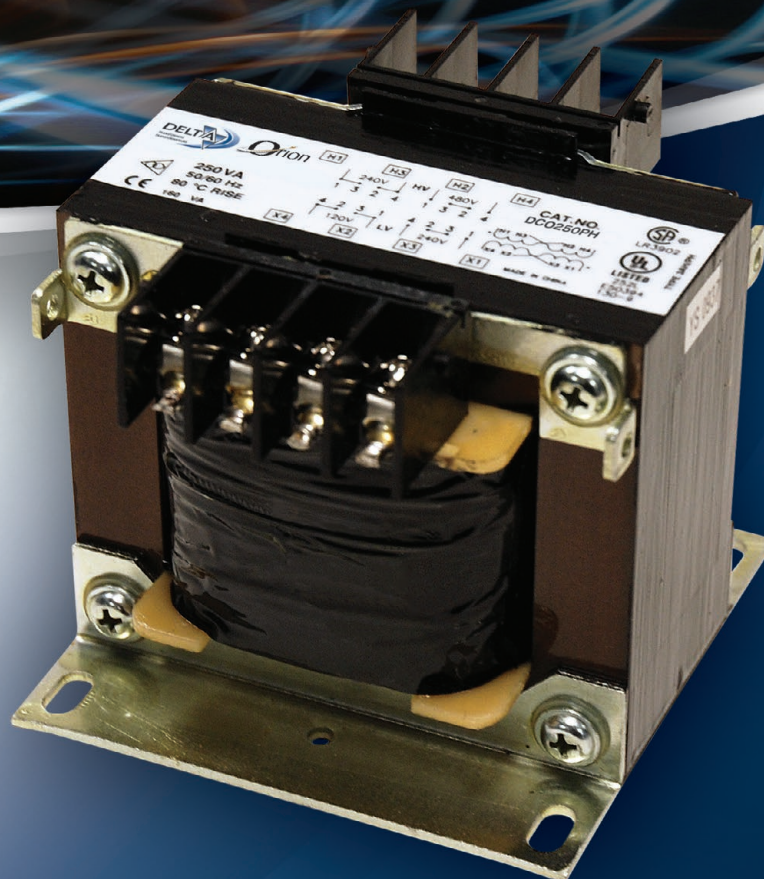


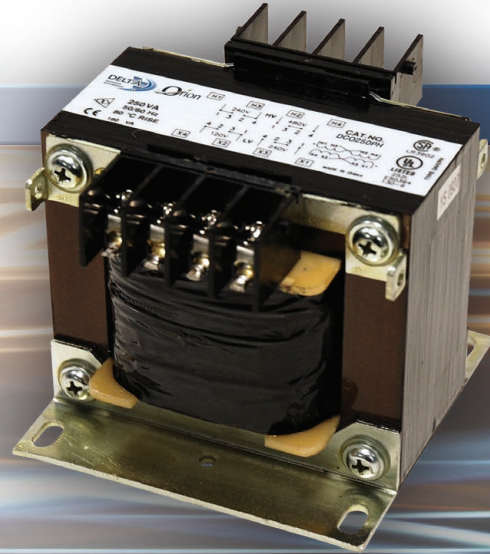


Orion

Control Transformers



SYNONYMOUS WITH QUALITY



Features and Benefits

- Molded terminal blocks for primary and secondary connections up to 3000VA or 30 amps. Coil face termination over 3000VA or 30 amps.
- All terminal blocks utilize a combination slot/Phillips #6 screw with a SEMS washer. Coil face terminations utilize a 1/4-20 UNC X 0.50" combination slot/Phillips screw and a spring lock washer.
- 50/60 Hz (60 Hz on DCO***UH and DCO***QC).
- Copper wound coils with high dielectric strength insulation.
- CSA Certified (file LR 3902), UL Listed (file E50394), CE Marked and RoHS Compliant.
- Meets NEMA standards.
- Superior insulating materials. The Delta Orion Controls offers the following insulation systems:
 - Up to 1500VA: 80°C rise, 130°C temperature class (B)
 - 2000VA to 5000VA: 115°C rise, 180°C temperature class (F)
- Most Delta Orion Controls units incorporate "Premium Packaging" which feature:
 - Premium fluted cartons
 - Custom molded foam inserts
 - Easy removal and repacking
 - Industry's best box label
- All Delta Orion Controls units are supplied with trilingual installation and wiring instruction sheets.
- All units supplied with primary and secondary voltage links/jumpers.
- All Delta Orion Controls transformers are Vacuum Impregnated with Polyester Resin and oven cured.
- Bolted core construction.
- Bolt-on mounting brackets.

• **15 year warranty**



Series-A

	VA Rating	CE VA Rating	Catalog Number	Mtg. Fig.	Output Amps	Overall Dimensions			Mounting Centers		Mounting Slot	Height with Finger Guard	Height with Fuse Block Adapter	Approx. Ship Weight Lbs.
						A	B	C	D	E				
Primary Voltage:	50	50	DC050UH	A	0.42/0.21	2.60	3.82	2.60	2.13	2.64	0.22 x 0.44	2.98	2.79	2.2
600 / 480	100	100	DC0100UH	A	0.83/0.42	2.99	3.74	2.85	2.52	2.60	0.22 x 0.44	3.23	3.04	3.3
Secondary Voltage:	150	150	DC0150UH	A	1.25/0.63	2.99	4.29	2.85	2.52	3.15	0.22 x 0.44	3.23	3.04	4.4
120 x 240	250	160	DC0250UH	A	2.08/1.04	3.78	4.09	3.40	3.31	2.99	0.22 x 0.44	3.78	3.59	6.4
60 Hertz	350	250	DC0350UH	A	2.92/1.46	3.78	4.49	3.40	3.31	3.39	0.22 x 0.44	3.78	3.59	7.5
	500	300	DC0500UH	A	4.17/2.08	4.49	4.69	3.78	3.78	3.66	0.31 x 0.81	4.16	3.97	11
	750	500	DC0750UH	A	6.25/3.13	5.25	5.08 ¹	4.37	4.50	4.06	0.31 x 0.81	4.75	4.56	18
	1000	650	DC01000UH	A	8.33/4.17	5.25	5.47 ¹	4.37	4.50	4.45	0.31 x 0.81	4.75	4.56	21
	1500	1000	DC01500UH	A	12.5/6.25	5.25	6.85 ¹	4.37	4.50	5.83	0.31 x 0.81	4.56	4.37	28
	2000	1300	DC02000UH	A	16.7/8.33	6.38	5.87 ¹	5.31	5.75	4.84	0.31 x 0.81	5.69	5.50	34
	3000	2000	DC03000UH	A	25.0/12.5	7.50	7.50	6.50	6.30	6.85	0.44 x 1.00	6.50	6.50	60
	5000	3000	DC05000UH	C	41.7/20.8	8.98	9.88	7.76	7.40	7.13	0.44 x 1.00	N/A	N/A	93

Primary and Secondary voltage links/jumpers supplied standard with all transformers.

Special voltages and VA sizes available upon request.

¹ Note: For 750 through 2000VA units actual overall depth is 0.24" plus the value in column B.

* See back cover for dimensional drawings.

All dimensions in inches

Series-B

	VA Rating	CE VA Rating	Catalog Number	Mtg. Fig.	Output Amps	Overall Dimensions			Mounting Centers		Mounting Slot	Height with Finger Guard	Height with Fuse Block Adapter	Approx. Ship Weight Lbs.
						A	B	C	D	E				
Primary Voltage:	50	50	DC050QC	A	4.17/2.08	2.60	3.23	2.60	2.13	2.05	0.22 x 0.44	2.98	2.79	1.5
600	100	100	DC0100QC	A	8.33/4.17	2.99	3.74	2.85	2.52	2.60	0.22 x 0.44	3.23	3.04	3.3
Secondary Voltage:	150	150	DC0150QC	A	12.5/6.25	2.99	4.29	2.85	2.52	3.15	0.22 x 0.44	3.23	3.04	3.9
12 x 24	250	160	DC0250QC	A	20.8/10.4	3.78	3.70	3.40	3.31	2.60	0.22 x 0.44	3.78	3.59	5.2
60 Hertz	350	250	DC0350QC	A	29.2/14.6	3.78	4.29	3.40	3.31	3.19	0.22 x 0.44	3.78	3.59	7.1
	500	300	DC0500QC	B	41.7/20.8	4.49	5.08	3.78	3.78	3.27	0.31 x 0.81	4.16	3.97	9.9

Primary and Secondary voltage links/jumpers supplied standard with all transformers.

Special voltages and VA sizes available upon request.

* See back cover for dimensional drawings.

All dimensions in inches

SYNONYMOUS WITH QUALITY



Series-C

	VA Rating	CE VA Rating	Catalog Number	Mtg. Fig.	Output Amps	Overall Dimensions			Mounting Centers		Mounting Slot	Height with Finger Guard	Height with Fuse Block Adapter	Approx. Ship Weight Lbs.
						A	B	C	D	E				
Primary Voltage:	50	50	DC050PH	A	0.42/0.21	2.60	3.35	2.60	2.13	2.17	0.22 x 0.44	2.98	2.79	1.7
240 / 480	100	100	DC0100PH	A	0.83/0.42	2.99	3.74	2.85	2.52	2.60	0.22 x 0.44	3.23	3.04	3
Secondary Voltage:	150	150	DC0150PH	A	1.25/0.63	2.99	4.29	2.85	2.52	3.15	0.22 x 0.44	3.23	3.04	4.3
120 x 240	250	160	DC0250PH	A	2.08/1.04	3.78	4.09	3.40	3.31	2.99	0.22 x 0.44	3.78	3.59	6.5
 50 / 60 Hertz	350	250	DC0350PH	A	2.92/1.46	3.78	4.69	3.40	3.31	3.58	0.22 x 0.44	3.78	3.59	8.2
	500	300	DC0500PH	A	4.17/2.08	4.49	4.69	3.78	3.78	3.66	0.31 x 0.81	4.16	3.97	11
	750	500	DC0750PH	A	6.25/3.13	5.25	4.69 ¹	4.37	4.50	3.66	0.31 x 0.81	4.75	4.56	16
	1000	650	DC01000PH	A	8.33/4.17	5.25	5.47 ¹	4.37	4.50	4.45	0.31 x 0.81	4.75	4.56	21
	1500	1000	DC01500PH	A	12.5/6.25	5.25	6.85 ¹	4.37	4.50	5.83	0.31 x 0.81	4.75	4.56	28
	2000	1300	DC02000PH	A	16.7/8.33	6.38	5.87 ¹	5.31	5.75	4.84	0.31 x 0.81	5.50	5.31	35
	3000	2000	DC03000PH	A	25.0/12.5	7.50	7.50	6.50	6.30	7.28	0.44 x 1.00	6.50	6.50	64
	5000	3000	DC05000PH	C	41.7/20.8	8.98	9.88	7.76	7.40	7.28	0.44 x 1.00	N/A	N/A	97

Primary and Secondary voltage links/jumpers supplied standard with all transformers.
Special voltages and VA sizes available upon request.

All dimensions in inches

¹ Note: For 750 through 2000VA units actual overall depth is 0.24" plus the value in column B.
* See back cover for dimensional drawings.

Series-D

	VA Rating	CE VA Rating	Catalog Number	Mtg. Fig.	Output Amps	Overall Dimensions			Mounting Centers		Mounting Slot	Height with Finger Guard	Height with Fuse Block Adapter	Approx. Ship Weight Lbs.
						A	B	C	D	E				
Primary Voltage:	50	50	DC050PC	A	4.17/2.08	2.60	3.35	2.60	2.13	2.17	0.22 x 0.44	2.98	2.79	1.7
240 / 480	100	100	DC0100PC	A	8.33/4.17	2.99	3.54	2.85	2.52	2.40	0.22 x 0.44	3.23	3.04	3
Secondary Voltage:	150	150	DC0150PC	A	12.5/6.25	2.99	4.29	2.85	2.52	3.15	0.22 x 0.44	3.23	3.04	4.3
12 x 24	250	160	DC0250PC	A	20.8/10.4	3.78	4.09	3.40	3.31	2.99	0.22 x 0.44	3.78	3.59	6.5
 50 / 60 Hertz	350	250	DC0350PC	A	29.2/14.6	3.78	4.69	3.40	3.31	3.58	0.22 x 0.44	3.78	3.59	8.3
	500	300	DC0500PC	B	41.7/20.8	4.49	5.47	3.78	3.78	3.66	0.31 x 0.81	4.16	3.97	11

Primary and Secondary voltage links/jumpers supplied standard with all transformers.
Special voltages and VA sizes available upon request.

All dimensions in inches

* See back cover for dimensional drawings.



Series-E

	VA Rating	CE VA Rating	Catalog Number	Mtg. Fig.	Output Amps	Overall Dimensions			Mounting Centers		Mounting Slot	Height with Finger Guard	Height with Fuse Block Adapter	Approx. Ship Weight Lbs.
						A	B	C	D	E				
Primary Voltage:	50	50	DC050LH	A	0.42/0.21	2.60	3.35	2.60	2.13	2.17	0.22 x 0.44	2.98	2.79	1.7
380 / 347	100	100	DC0100LH	A	0.83/0.42	2.99	3.74	2.85	2.52	2.60	0.22 x 0.44	3.23	3.04	3.4
Secondary Voltage:	150	150	DC0150LH	A	1.25/0.63	2.99	4.29	2.85	2.52	3.15	0.22 x 0.44	3.23	3.04	4.4
120 x 240	250	160	DC0250LH	A	2.08/1.04	3.78	4.09	3.40	3.31	2.99	0.22 x 0.44	3.78	3.59	6.7
	350	250	DC0350LH	A	2.92/1.46	3.78	4.69	3.40	3.31	3.58	0.22 x 0.44	3.78	3.59	8.4
50 / 60 Hertz	500	300	DC0500LH	A	4.17/2.08	4.49	4.69	3.78	3.78	3.66	0.31 x 0.81	4.16	3.97	12
	750	500	DC0750LH	A	6.25/3.13	5.25	4.69 ¹	4.37	4.50	3.66	0.31 x 0.81	4.75	4.56	17
	1000	650	DC01000LH	A	8.33/4.17	5.25	5.47 ¹	4.37	4.50	4.45	0.31 x 0.81	4.75	4.56	21
	1500	1000	DC01500LH	A	12.5/6.25	6.38	4.88 ¹	5.31	5.75	3.86	0.31 x 0.81	5.50	5.31	29

Primary and Secondary voltage links/jumpers supplied standard with all transformers.

All dimensions in inches

Special voltages and VA sizes available upon request.

¹ Note: For 750 through 1500VA units actual overall depth is 0.24" plus the value in column B.

* See back cover for dimensional drawings.

Series-F

	VA Rating	CE VA Rating	Catalog Number	Mtg. Fig.	Output Amps	Overall Dimensions			Mounting Centers		Mounting Slot	Height with Finger Guard	Height with Fuse Block Adapter	Approx. Ship Weight Lbs.
						A	B	C	D	E				
Primary Voltage:	50	50	DC050LC	A	4.17/2.08	2.60	3.35	2.60	2.13	2.17	0.22 x 0.44	2.98	2.79	1.7
380 / 347	100	100	DC0100LC	A	8.33/4.17	2.99	3.74	2.85	2.52	2.60	0.22 x 0.44	3.23	3.04	3.3
Secondary Voltage:	150	150	DC0150LC	A	12.5/6.25	2.99	4.29	2.85	2.52	3.15	0.22 x 0.44	3.23	3.04	4.4
12 x 24	250	160	DC0250LC	A	20.8/10.4	3.78	4.09	3.40	3.31	2.99	0.22 x 0.44	3.78	3.59	6.4
	350	250	DC0350LC	A	29.2/14.6	3.78	4.69	3.40	3.31	3.58	0.22 x 0.44	3.78	3.59	8.1
50 / 60 Hertz	500	300	DC0500LC	B	41.7/20.8	4.49	5.47	3.78	3.78	3.66	0.31 x 0.81	4.16	3.97	11

Primary and Secondary voltage links/jumpers supplied standard with all transformers.

All dimensions in inches

Special voltages and VA sizes available upon request.

* See back cover for dimensional drawings.

Series-G

	VA Rating	CE VA Rating	Catalog Number	Mtg. Fig.	Output Amps	Overall Dimensions			Mounting Centers		Mounting Slot	Height with Finger Guard	Height with Fuse Block Adapter	Approx. Ship Weight Lbs.
						A	B	C	D	E				
Primary Voltage:	50	50	DC050IE	A	0.42	2.60	3.35	2.60	2.13	2.17	0.22 x 0.44	2.98	2.79	1.6
277	100	100	DC0100IE	A	0.83	2.99	3.54	2.85	2.52	2.40	0.22 x 0.44	3.23	3.04	3.2
Secondary Voltage:	150	150	DC0150IE	A	1.25	2.99	4.29	2.85	2.52	3.15	0.22 x 0.44	3.23	3.04	4.3
120	250	160	DC0250IE	A	2.08	3.78	4.09	3.40	3.31	2.99	0.22 x 0.44	3.78	3.59	6.4
	350	250	DC0350IE	A	2.92	3.78	4.69	3.40	3.31	3.58	0.22 x 0.44	3.78	3.59	8.1
50 / 60 Hertz	500	300	DC0500IE	A	4.17	4.49	4.69	3.78	3.78	3.66	0.31 x 0.81	4.16	3.97	11
	750	500	DC0750IE	A	6.25	5.25	5.08 ¹	4.37	4.50	4.06	0.31 x 0.81	4.75	4.56	18
	1000	650	DC01000IE	A	8.33	5.25	5.47 ¹	4.37	4.50	4.45	0.31 x 0.81	4.75	4.56	20
	1500	1000	DC01500IE	A	12.50	5.25	6.85 ¹	4.37	4.50	5.83	0.31 x 0.81	4.75	4.56	29

Primary and Secondary voltage links/jumpers supplied standard with all transformers.

All dimensions in inches

Special voltages and VA sizes available upon request.

¹ Note: For 750 through 1500VA units actual overall depth is 0.24" plus the value in column B.

* See back cover for dimensional drawings.

SYNONYMOUS WITH QUALITY





Series-H

	VA Rating	CE VA Rating	Catalog Number	Mtg. Fig.	Output Amps	Overall Dimensions			Mounting Centers		Mounting Slot	Height with Finger Guard	Height with Fuse Block Adapter	Approx. Ship Weight Lbs.
						A	B	C	D	E				
Primary Voltage:	50	50	DC050HC	A	4.17/2.08	2.60	3.35	2.60	2.13	2.17	0.22 x 0.44	2.98	2.79	1.7
120/240	100	100	DC0100HC	A	8.33/4.17	2.99	3.74	2.85	2.52	2.60	0.22 x 0.44	3.23	3.04	3
Secondary Voltage:	150	150	DC0150HC	A	12.5/6.25	2.99	4.29	2.85	2.52	3.15	0.22 x 0.44	3.23	3.04	4.3
12 x 24	250	160	DC0250HC	A	20.8/10.4	3.78	3.90	3.40	3.31	2.80	0.22 x 0.44	3.78	3.59	5.9
  	350	250	DC0350HC	A	29.2/14.6	3.78	4.69	3.40	3.31	3.58	0.22 x 0.44	3.78	3.59	8.2
50/60 Hertz	500	300	DC0500HC	B	41.7/20.8	4.49	5.47	3.78	3.78	3.66	0.31 x 0.81	4.16	3.97	11

Primary and Secondary voltage links/jumpers supplied standard with all transformers.

Special voltages and VA sizes available upon request.

* See back cover for dimensional drawings.

All dimensions in inches

Series-I

	VA Rating	CE VA Rating	Catalog Number	Mtg. Fig.	Output Amps	Overall Dimensions			Mounting Centers		Mounting Slot	Height with Finger Guard	Height with Fuse Block Adapter	Approx. Ship Weight Lbs.
						A	B	C	D	E				
Primary Voltage:	50	50	DC050NH	A	0.42/0.21	2.60	3.35	2.60	2.13	2.17	0.22 x 0.44	1.6	2.60	1.6
208 / 416	100	100	DC0100NH	A	0.83/0.42	2.99	3.54	2.85	2.52	2.40	0.22 x 0.44	3	2.85	3
Secondary Voltage:	150	150	DC0150NH	A	1.25/0.63	2.99	4.29	2.85	2.52	3.15	0.22 x 0.44	4.3	2.85	4.3
120 x 240	250	160	DC0250NH	A	2.08/1.04	3.78	4.09	3.40	3.31	2.99	0.22 x 0.44	6.5	3.40	6.5
  	350	250	DC0350NH	A	2.92/1.46	3.78	4.69	3.40	3.31	3.58	0.22 x 0.44	8.3	3.40	8.3
50/60 Hertz	500	300	DC0500NH	A	4.17/2.08	4.49	4.69	3.78	3.78	3.66	0.31 x 0.81	11	3.78	11
	750	500	DC0750NH	A	6.25/3.13	5.25	4.69 ¹	4.37	4.50	3.66	0.31 x 0.81	16	4.75	16
	1000	650	DC01000NH	A	8.33/4.17	5.25	5.47 ¹	4.37	4.50	4.45	0.31 x 0.81	20	4.75	20
	1500	1000	DC01500NH	A	12.5/6.25	6.38	4.88 ¹	5.31	5.75	3.86	0.31 x 0.81	27	5.69	27

Primary and Secondary voltage links/jumpers supplied standard with all transformers.

Special voltages and VA sizes available upon request.

¹ Note: For 750 through 2000VA units actual overall depth is 0.24" plus the value in column B.

* See back cover for dimensional drawings.

All dimensions in inches

Series-J

	VA Rating	CE VA Rating	Catalog Number	Mtg. Fig.	Output Amps	Overall Dimensions			Mounting Centers		Mounting Slot	Height with Finger Guard	Height with Fuse Block Adapter	Approx. Ship Weight Lbs.
						A	B	C	D	E				
Primary Voltage:	50	50	DC050NC	A	4.17/2.08	2.60	3.35	2.60	2.13	2.17	0.22 x 0.44	2.98	2.79	1.6
208/416	100	100	DC0100NC	A	8.33/4.17	2.99	3.54	2.85	2.52	2.40	0.22 x 0.44	3.23	3.04	3.1
Secondary Voltage:	150	150	DC0150NC	A	12.5/6.25	2.99	4.29	2.85	2.52	3.15	0.22 x 0.44	3.23	3.04	4.3
12 x 24	250	160	DC0250NC	A	20.8/10.4	3.78	4.09	3.40	3.31	2.99	0.22 x 0.44	3.78	3.59	6.5
  	350	250	DC0350NC	A	29.2/14.6	3.78	4.69	3.40	3.31	3.58	0.22 x 0.44	3.78	3.59	8.3
50/60 Hertz	500	300	DC0500NC	B	41.7/20.8	4.49	5.47	3.78	3.78	3.66	0.31 x 0.81	4.16	3.97	11

Primary and Secondary voltage links/jumpers supplied standard with all transformers.

Special voltages and VA sizes available upon request.

* See back cover for dimensional drawings.

All dimensions in inches

Optional Accessories

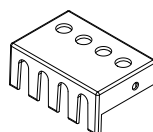


Finger Guard

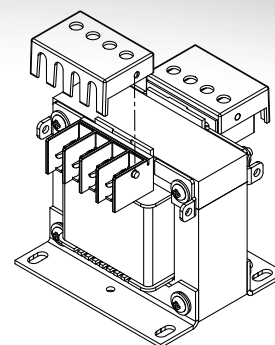
Delta Control Transformers up to and including 3000VA or 30 amps are available with optional finger guards.

Part Number	Applicable Transformer Part Number Suffixes	Applicable VA Sizes
FG01	AR, QR, PR, KHR, SR	50 to 500
FG01	KHP, SP, NJ	50 to 1500
FG01	ACP, MQMJ	50 to 3000

Note: Each finger guard supplies either the primary or secondary side. Finger guard option not available on DC05000UH and DC05000PH standard units. Add 0.38" per finger guard to overall depth (column B) on units from 50VA to 500VA and 0.31" to units from 750VA to 2000VA when finger guard has been installed. For custom units, optional finger guards are only available on units up to 3000VA or 30 amps.



FINGER GUARD
(Optional)



SAMPLE ASSEMBLY DRAWING FOR OPTIONAL FINGER GUARD INSTALLATION

(Only available for units supplied with either a primary or secondary molded terminal block)

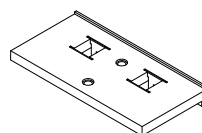
Fuse Block Adapter Kit

Delta Control Transformers up to and including 3000VA or 30 amps are available with optional fuse block adapter kits. The Fuse Block Adapter Kit is designed to allow for the installation of any third party after market fuse block assembly onto the industrial control transformer. The transformer must be a unit that incorporates a molded terminal block on either the primary or secondary side.

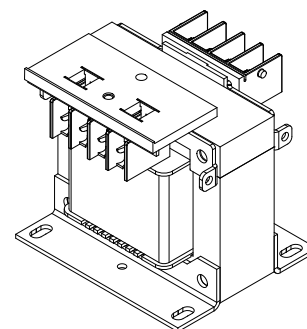
Note: Delta does not provide any jumpers or appropriate fuses for any after market fuse block you install on the Delta Control Transformers. The Delta Fuse Block Adapter Kit provides only the mechanical means of attaching a third party after market fuse block. Delta does not recommend any specific fuse block or fuse supplier. For a recommended size of fuse please see page 69 of the HTP-10 Transformer Products catalog.

Kit Part Number	Applicable Transformer Part Number Suffixes	Applicable VA Sizes
FBOAK1	AR, QR, PR, KHR, SR	50 to 500
FBOAK1	KHP, SP, NJ	50 to 1500
FBOAK1	ACP, MQMJ	50 to 3000

Note: Only 1 fuse block adapter kit is required per transformer. Fuse block adapter kit not available on DC05000UH and DC05000PH standard units. Add 0.38" per fuse block adapter to overall depth (column B) on units from 750VA to 3000VA when optional fuse block adapter is installed. For custom units, optional fuse block adapter kit is only available on units up to 3000VA or 30 amps.



FUSE BLOCK ADAPTER KIT
(Optional)



SAMPLE ASSEMBLY DRAWING FOR OPTIONAL FUSE BLOCK ADAPTER INSTALLATION

SYNONYMOUS WITH QUALITY



Dimensional Drawings

Some actual transformer units may differ from dimensional drawings shown below.

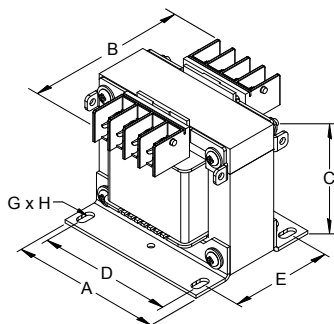


FIGURE A

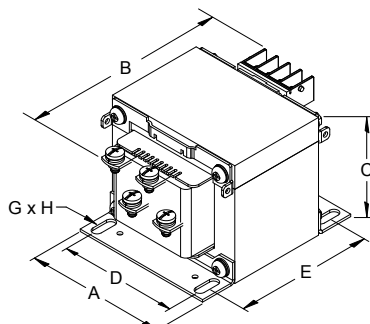


FIGURE B

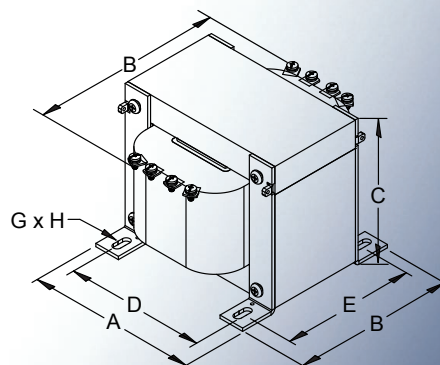


FIGURE C

Custom Control Capabilities

Delta is one of the industry's most technically capable manufacturers producing the broadest and most competitive range of custom dry-type transformers and related magnetic products in North America. Our designs are cost effective and our transformers are built with modern manufacturing techniques. We emphasize our Value Added Engineering whereby our design staff will interface with your team to produce the optimum transformer. Our 3-D modelling design and CAD facilities permits quick and effective communication when time is vital.

Delta can provide custom control transformers to fit your design style requirements for most standard or specialty applications. From custom medium voltage to enclosed or even potted control, Delta has the engineering and manufacturing resources to deliver your custom control transformer how you want it and when you need it.

DELTA TRANSFORMERS Inc.

SYNONYMOUS WITH QUALITY

3850 Java Place, Suite 200, Brossard, Quebec J4Y 0C4
Telephone: 1-800-663-3582 ■ 450-449-9774
Fax: 1-877-449-9115 ■ 450-449-1349
info@delta.xfo.com

