

International Series Control Transformers: 50 - 750 VA

Electromagnetic control components demand inrush currents up to 10 times the transformers nominal rating without sacrificing secondary voltage stability beyond practical limits. The International series transformers fully comply with IEC and NEMA standards and are available with IEC touchproof covers (IP20).

Features

- Epoxy encapsulated for cooler operation
- Interleaved copper windings to reduce impedance
- 50/60 Hz
- 55°C Rise, 105°C insulation system for harsh, heavy duty applications
- Exceeds IEC, NEMA, ANSI, NMTBA, JIC and automotive standards

Certifications and Compliances

-  Listed: E77014
 - UL 506
 - CSA C22.2 No. 66
-  - IEC 61558-1, IEC 61558-2-2
- RoHS Compliant

Related Products

- DIN Rail Power Supplies
- 63 Series Power Conditioners
- Surge Protective Devices



CATALOG NUMBER		FIELD INSTALLED OPTIONS DESCRIPTIONS
SBEDIN		<u>DIN Circuit Breaker Mounting</u> Field installed IEC fuse holder adaptor kit
IP20		<u>Terminal Covers (Two Covers Per Kit)</u> Field installed primary and secondary IEC Touch Proof Cover Kit.

Selection Tables: International Series

Group 1 – 208/240/415 Volt Primary, 120/24 Secondary, 50/60 Hz 200/230/400 Volt Primary, 115/23 Secondary, 50/60 Hz

Continuous VA	Instantaneous VA *	Catalog Number	Height in (mm)	Width in (mm)	Depth in (mm)	Mtg Width W1 / W2 – in (mm)	Mtg Depth D1 / D2 – in (mm)	Slot Size S1/S2 – in (mm)	Approx. Ship Weight lbs (kg)	
50	105	E050TC	2.96 (75.2)	3.39 (86.1)	4.36 (110.7)	2.81 / 2.50 (71.4 / 63.5)	2.10 / N/A (53.3 / N/A)	.20 x .50 / .20 x .50 (5.08 x 12.7 / 5.08 x 12.7)	4.0 (1.82)	
100	230	E100TC	3.89 (98.8)	4.50 (114.3)	4.48 (113.8)	2.56 / 2.87 (65.0 / 72.9)	2.87 / 3.18 (72.9 / 80.8)	.20 x .65 / .20 x .33 (5.08 x 16.5 / 5.08 x 8.4)	8.0 (3.67)	
150	420	E150TC	3.89 (98.8)	4.50 (114.3)	5.21 (132.3)	3.74 / 3.12 (95.0 / 79.3)	3.29 / 3.61 (83.6 / 91.7)	.20 x .65 / .20 x .33 (5.08 x 16.5 / 5.08 x 8.4)	11.0 (5.00)	
250	675	E250TC	4.53 (115.1)	5.25 (133.4)	5.07 (128.8)	4.38 / 3.75 (111.3 / 95.3)	3.54 / N/A (89.9 / N/A)	.31 x .85 / .31 x .85 (7.87 x 21.59 / 7.87 x 21.59)	15.0 (6.82)	
500	1600	E500TC	5.56 (141.2)	6.38 (162.1)	6.93 (176.0)	5.32 / 4.37 (135.1 / 111.0)	4.25 / 5.75 (108.0 / 146.1)	.31 x .03 / .31 x .85 (7.87 x .85 / 7.87 x 21.59)	30.0 (13.64)	

* At 50% PF (Power Factor), 95% Nominal Secondary Voltage.

Group 2 – 208/240/415 Volt Primary, 24 Volt Secondary, 50/60 Hz 277/480 Volt Primary, 24 Volt Secondary, 60 Hz 200/230/400 Volt Primary, 24 Volt Secondary, 50/60 Hz 220/380 Volt Primary, 23 Volt Secondary, 50/60 Hz

Continuous VA	Instantaneous VA*	Catalog Number	Height in (mm)	Width in (mm)	Depth in (mm)	Mtg Width W1 / W2 in (mm)	Mtg Depth D1 / D2 in (mm)	Slot Size S1/S2 – in (mm)	Approx. Ship Weight lbs (kg)	
50	105	E050TE	2.96 (75.2)	3.39 (86.1)	4.36 (110.7)	2.81 / 2.50 (71.4 / 63.5)	2.10 / N/A (53.3 / N/A)	.20 x .50 / .20 x .50 (5.08 x 12.7 / 5.08 x 12.7)	4.0 (1.82)	
100	230	E100TE	3.89 (98.8)	4.50 (114.3)	4.48 (113.8)	2.56 / 2.87 (65.0 / 72.9)	2.87 / 3.18 (72.9 / 80.8)	.20 x .03 / .20 x .01 (5.08 x .65 / 5.08 x .33)	8.0 (3.67)	
150	420	E150TE	3.89 (98.8)	4.50 (114.3)	5.21 (132.3)	3.74 / 3.12 (95.0 / 79.3)	3.29 / 3.61 (83.6 / 91.7)	.20 x .03 / .20 x .01 (5.08 x .65 / 5.08 x .33)	11.0 (5.00)	
250	675	E250TE	4.53 (115.1)	5.25 (133.4)	5.07 (128.8)	4.38 / 3.75 (111.3 / 95.3)	3.54 / N/A (89.9 / N/A)	.30 x .71 / .30 x .71 (7.87 x 18.0 / 7.87 x 18.0)	15.0 (6.82)	
500	1600	E500TE	5.56 (141.2)	6.38 (162.1)	6.93 (176.0)	5.32 / 4.37 (135.1 / 111.0)	4.25 / 5.75 (108.0 / 146.1)	.30 x .85 / .30 x .85 (7.87 x 21.6 / 7.87 x 21.6)	30.0 (13.64)	

Note: Fuse holders are not available for these voltage configurations.

* At 50% PF (Power Factor), 95% Nominal Secondary Voltage.

Design Style

Mounting Dimensions	Profile	Top View
SECTION VIEW A-A		

Selection Tables: International Series - continued

Group 3 – 208/240/415/480/600 * Volt Primary, 120 Volt Secondary, 50/60 Hz
200/230/400/460/575 * Volt Primary, 115 Volt Secondary, 50/60 Hz
220/277 */380 Volt Primary, 110 Volt Secondary, 50/60 Hz

Continuous VA	Instantaneous VA **	Catalog Number	Height in (mm)	Width in (mm)	Depth in (mm)	Mtg Width W1 / W2 – in (mm)	Mtg Depth D1 / D2 – in (mm)	Slot Size S1/S2 – in (mm)	Approx. Ship Weight lbs (kg)	
50	93	E050TF	2.96 (75.2)	3.39 (86.1)	4.36 (110.7)	2.81 / 2.50 (71.4 / 63.5)	2.10 / N/A (53.3 / N/A)	.20 x .50 / .20 x .50 (5.08 x 12.7 / 5.08 x 12.7)	4.0 (1.82)	
100	205	E100TF	3.89 (98.8)	4.50 (114.3)	4.48 (113.8)	3.74 / 3.12 (95.0 / 79.3)	2.56 / 2.87 (65.0 / 73.0)	.20 x .65 / .20 x .33 (5.08 x 16.5 / 5.08 x 8.38)	8.0 (3.67)	
150	390	E150TF	3.89 (98.8)	4.50 (114.3)	5.21 (132.3)	3.74 / 3.12 (95.0 / 79.3)	3.29 / 3.61 (83.6 / 91.7)	.20 x .65 / .20 x .33 (5.08 x 16.5 / 5.08 x 8.38)	11.0 (5.00)	
250	630	E250TF	4.53 (115.1)	5.25 (133.4)	5.07 (128.8)	4.38 / 3.75 (111.3 / 95.3)	3.54 / N/A (89.9 / N/A)	.31 x .71 / .31 x .71 (7.9 x 18.0 / 7.9 x 18.0)	15.0 (6.82)	
500	1200	E500TF	5.56 (141.2)	6.38 (162.1)	6.93 (176.0)	5.32 / 4.37 (135.1 / 111.0)	4.25 / 5.75 (108.0 / 146.1)	.31 x .85 / .31 x .85 (7.9 x 21.6 / 7.9 x 21.6)	30.0 (13.64)	
750	2290	E750TF	5.56 (141.2)	6.38 (162.1)	7.36 (187.0)	5.32 / 4.37 (135.1 / 111.0)	4.68 / 6.18 (118.9 / 157.0)	.31 x .85 / .31 x .85 (7.9 x 21.6 / 7.9 x 21.6)	34.0 (15.45)	

* 60 Hz Only.

** At 50% PF (Power Factor), 95% Nominal Secondary Voltage.

Group 4 – 240/415/480 Volt Primary, 120/240 Volt Secondary, 50/60 Hz
230/400/460 Volt Primary, 115/230 Volt Secondary, 50/60 Hz
220/380/440 Volt Primary, 110/220 Volt Secondary, 50/60 Hz

Continuous VA	Instantaneous VA *	Catalog Number	Height in (mm)	Width in (mm)	Depth in (mm)	Mtg Width W1 / W2 in (mm)	Mtg Depth D1 / D2 in (mm)	Slot Size S1/S2 – in (mm)	Approx. Ship Weight lbs (kg)	
50	110	E050TH	2.96 (75.2)	3.39 (86.1)	4.36 (110.7)	2.81 / 2.50 (71.4 / 63.5)	2.10 / N/A (53.3 / N/A)	.20 x .50 / .20 x .50 (5.08 x 12.7 / 5.08 x 12.7)	4.0 (1.82)	
100	235	E100TH	3.89 (98.8)	4.50 (114.3)	4.48 (113.8)	3.74 / 3.12 (95.0 / 79.3)	2.56 / 2.87 (65.0 / 73.0)	.20 x .65 / .20 x .33 (5.08 x 16.5 / 5.08 x 8.38)	8.0 (3.67)	
150	470	E150TH	3.89 (98.8)	4.50 (114.3)	5.21 (132.3)	3.74 / 3.12 (95.0 / 79.3)	3.29 / 3.61 (83.6 / 91.7)	.20 x .65 / .20 x .33 (5.08 x 16.5 / 5.08 x 8.38)	11.0 (5.00)	
250	730	E250TH	4.53 (115.1)	5.25 (133.4)	5.07 (128.8)	4.38 / 3.75 (111.3 / 95.3)	3.54 / N/A (89.9 / N/A)	.31 x .81 / .31 x .85 (7.9 x 20.59 / 7.9 x 18.0)	15.0 (6.82)	
500	1670	E500TH	5.56 (141.2)	6.38 (162.1)	6.93 (176.0)	5.32 / 4.37 (135.1 / 111.0)	4.25 / 5.75 (108.0 / 146.1)	.31 x .85 / .31 x .85 (7.9 x 21.59 / 7.9 x 21.59)	30.0 (13.64)	
750	2250	E750TH	5.56 (141.2)	6.38 (162.1)	7.36 (187.0)	5.32 / 4.37 (135.1 / 111.0)	4.68 / 6.18 (118.9 / 157.0)	.31 x .85 / .31 x .85 (7.9 x 21.59 / 7.9 x 21.59)	34.0 (15.45)	

Note: Fuse holders are not available for these voltage configurations.

* At 50% PF (Power Factor), 95% Nominal Secondary Voltage.

International Series - Fuse Recommendations

Primary Fusing: Consult local Electrical Code. Secondary Fusing: per IEC EN61558-2-2. * See 500 VA fuse rating for MC design.

VA	Maximum Current Rating of Fuse		
	24 Vac	115 Vac	230 Vac
50	2	0.5	0.25
100	4	1	0.5
150	6	1.6	0.8
250	10	2	1
500	20	4	2
750	*	6	4
1000	*	8	4
1500	*	12	6
2000	-	16	8

* See 500 VA fuse rating for MC design.