

SBE 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 SolaHD SBE 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 - Type SBE
 - UL 5085-1, UL 5085-2
 - CSA C22.2 No. 66.1, No. 66.2
-  - IEC/EN 61558-1, IEC/EN 61558-2-2
- RoHS Compliant

Related Products

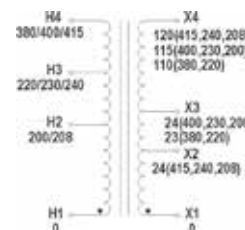
- DIN Rail Power Supplies
- 63 Series Power Conditioners
- Surge Protective Devices

CATALOG NUMBER		FIELD INSTALLED OPTIONS DESCRIPTIONS
SBEDIN		DIN Circuit Breaker Mounting DIN Rail adapter kit for mounting IEC circuit breaker.
		Terminal Covers (Two Covers Per Kit) Field installed primary and secondary IEC Touch Proof Cover Kit.

Selection Tables: International Series

Group 1 – –/220/380 V Primary, 110/23 V Secondary, 50/60 Hz
208/240/415 V Primary, 120/24 V Secondary, 50/60 Hz
200/230/400 V Primary, 115/24 V 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 (5.1 x 12.7 / 5.1 x 12.7)	4.0 (1.82)
100	230	E100TC	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 / 72.9)	.20 x .65 / .20 x .33 (5.1 x 16.5 / 5.1 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 (5.1 x 16.5 / 5.1 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 (7.9 x 21.6 / 7.9 x 21.6)	15.0 (6.82)
500	1550	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 (7.9 x .85 / 7.9 x 21.6)	30.0 (13.64)



Group 2 – 208/240/415 V Primary, 24 V Secondary, 50/60 Hz
277/480 V Primary, 24 V Secondary, 60 Hz
200/230/400 V Primary, 24 V Secondary, 50/60 Hz
220/380 V Primary, 23 V 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 (5.1 x 12.7 / 5.1 x 12.7)	4.0 (1.82)
100	230	E100TE	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 / 72.9)	.20 x .03 / .20 x .01 (5.1 x .65 / 5.1 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 (5.1 x .65 / 5.1 x .33)	11.0 (5.00)
250	700	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 (7.9 x 18.0 / 7.9 x 18.0)	15.0 (6.82)
500	1550	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 (7.9 x 21.6 / 7.9 x 21.6)	30.0 (13.64)



Note: Instantaneous VA calculated at 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 V Primary, 120 V Secondary, 50/60 Hz
200/230/400/460/575 V Primary, 115 V Secondary, 50/60 Hz
220/277 /380 V Primary, 110 V Secondary, 50/60 Hz

Note: 277V, 575 V, 600 V taps are 60Hz only.

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 (5.1 x 12.7 / 5.1 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 (5.1 x 16.5 / 5.1 x 8.4)	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 (5.1 x 16.5 / 5.1 x 8.4)	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)	

Group 4 – 240/415/480 V Primary, 120/240 V Secondary, 50/60 Hz
230/400/460 V Primary, 115/230 V Secondary, 50/60 Hz
220/380/440 V Primary, 110/220 V 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 (5.1 x 12.7 / 5.1 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 (5.1 x 16.5 / 5.1 x 8.4)	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 (5.1 x 16.5 / 5.1 x 8.4)	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 20.6 / 7.9 x 18.0)	15.0 (6.82)	
500	1550	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 21.6 / 7.9 x 21.6)	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 21.6 / 7.9 x 21.6)	34.0 (15.45)	

Note: Instantaneous VA calculated at 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.

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	2.5	1.25
500	20	5	2.5
750	20	6.3	3.15

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