

The SBE - Encapsulated, Copper Wound Series

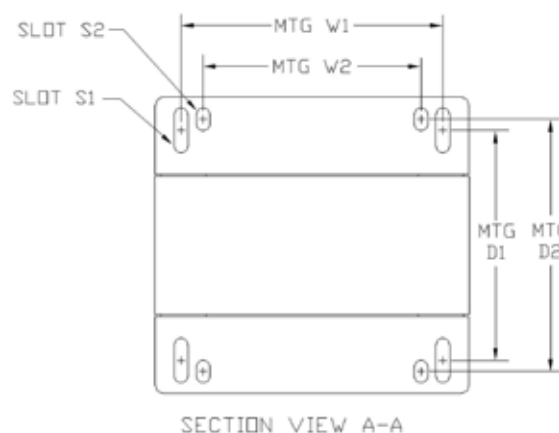
The SBE Encapsulated industrial control transformers are epoxy encapsulated to seal the transformer windings against moisture, dirt and industrial contaminants. Extra deep, molded terminal barriers reduce the chance of electrical failure as the result of arcing or frayed lead wires. The rugged construction and proven reliability of the SBE design is uniquely suited for all industrial environments.

Features

- 50 - 1000 VA, 50/60 Hz – suitable for worldwide applications.
- Interleaved copper windings reduce I^2R losses and maximize efficiency.
- 55°C Rise, 105°C insulation system to minimize heat
- Epoxy encapsulated to protect cores and coils against moisture, dirt, and other contaminants.
- Meets or exceeds NEMA Standard ST-1 and ANSI C89.1 for load inrush capability.
- Integrally molded, flame retardant (IEC 707/ISO Class 1210) Terminal Blocks provide greater terminal contact area and improved conductivity.
- Heavy gauge steel mounting plate
- Mounting dimensions are compatible with similar control transformers.
- Secondary fuse holders (FB2X) included for 13/32 x 1½ cartridges (fuses not included).
- Factory-installed fuse holders are available (See W, WA & WB options).
- Ten year limited warranty



SBE Mounting Profiles



SECTION VIEW A-A

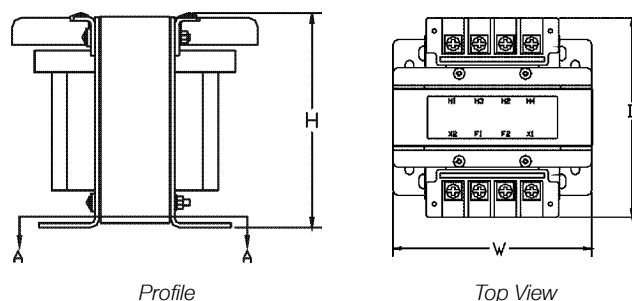
Certifications and Compliances

- cULus Listed: E77014
 - UL 506
 - CSA C22.2 No. 66
- RoHS Compliant

Related Products

- Linear Power Supplies
- DIN Rail DC Power Supplies
- Constant Voltage Transformers
- See SBE Accessories

Mounting Dimensions



Profile

Top View

SBE Encapsulated Series Selection Tables

**Group 2 – 220 x 440 Volt Primary, 110 Volt Secondary, 50/60 Hz, 230 x 460 Volt Primary, 115 Volt Secondary, 50/60 Hz
240 x 480 Volt Primary, 120 Volt Secondary, 60 Hz**

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	E050	2.72 (69.1)	3.01 (76.5)	3.99 (101.3)	2.51 / N/A (63.8 / N/A)	2.02 / N/A (51.3 / N/A)	.20 x .33 / .20 x .33 (5.1 x 8.4 / 5.1 x 8.4)	3.0 (1.36)	
75	E075	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	E100	2.96 (75.2)	3.39 (86.1)	4.61 (117.1)	2.81 / 2.50 (71.4 / 63.5)	2.37 / N/A (60.2 / N/A)	.20 x .50 / .20 x .50 (5.1 x 12.7 / 5.1 x 12.7)	5.0 (2.27)	
150	E150	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 (3.64)	
200	E200	3.89 (98.8)	4.50 (114.3)	4.79 (121.7)	3.74 / 3.12 (95.0 / 79.3)	2.87 / 3.18 (72.9 / 80.8)	.20 x .65 / .20 x .33 (5.1 x 16.5 / 5.1 x 8.4)	10.0 (4.55)	
250	E250	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)	
300	E300	4.53 (115.1)	5.25 (133.4)	4.66 (118.4)	4.38 / 3.75 (111.3 / 95.3)	3.10 / N/A (78.7 / N/A)	.31 x .71 / .31 x .71 (7.9 x 18.0 / 7.9 x 18.0)	12.0 (5.45)	
350	E350	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	E500	4.53 (115.1)	5.25 (133.4)	5.75 (146.1)	4.38 / 3.75 (111.3 / 95.3)	4.33 / N/A (110.0 / N/A)	.31 x .85 / .31 x .85 (7.9 x 21.6 / 7.9 x 21.6)	19.0 (8.64)	
750	E750	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)	31.0 (14.09)	
1000	E1000	5.56 (141.2)	6.38 (162.1)	7.36 (186.9)	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)	36.0 (16.36)	

Note: Includes FB2X Secondary fuse holder.

Group 2A – Factory Installed Primary Fuse Holder Class "CC" and: W – Secondary Fuse Holder (Midget Cartridge, 13/32" x 1½" fuse) supplied, no covers; WA – Secondary Fuse Holder (Glass or Ceramic – Type 3AG, ¼" x 1¼" fuse type); WB – Secondary Fuse Holder (Midget Cartridge, 13/32" x 1½" fuse)

VA	Primary Fuse Holder Class "CC"			Dimensions						
	W Option – Midget Type Catalog Number	WA Option – Type 3AG w/ Covers Catalog Number	WB Option – Midget Type w/ Covers 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	E050W	E050WA	E050WB	4.18 (106.2)	3.01 (76.5)	3.99 (101.3)	2.51 / N/A (63.8 / N/A)	2.02 / N/A (51.3 / N/A)	.20 x .33 / .20 x .33 (5.1 x 8.4 / 5.1 x 8.4)	3.0 (1.36)
75	E075W	E075WA	E075WB	4.41 (112.0)	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	E100W	E100WA	E100WB	4.41 (112.0)	3.39 (86.1)	4.61 (117.1)	2.81 / 2.50 (71.4 / 63.5)	2.37 / N/A (60.2 / N/A)	.20 x .50 / .20 x .50 (5.1 x 12.7 / 5.1 x 12.7)	5.0 (2.27)
150	E150W	E150WA	E150WB	5.36 (136.1)	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 (3.64)
200	E200W	E200WA	E200WB	5.36 (136.1)	4.50 (114.3)	4.79 (121.7)	3.74 / 3.12 (95.0 / 79.3)	2.87 / 3.18 (72.9 / 80.8)	.20 x .65 / .20 x .33 (5.1 x 16.5 / 5.1 x 8.4)	10.0 (4.55)
250	E250W	E250WA	E250WB	5.36 (136.1)	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)
300	E300W	E300WA	E300WB	5.99 (152.1)	5.25 (133.4)	4.66 (118.4)	4.38 / 3.75 (111.3 / 95.3)	3.10 / N/A (78.7 / N/A)	.31 x .71 / .31 x .71 (7.9 x 18.0 / 7.9 x 18.0)	12.0 (5.45)
350	E350W	E350WA	E350WB	5.99 (152.1)	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	E500W	E500WA	E500WB	5.99 (152.1)	5.25 (133.4)	5.75 (146.1)	4.38 / 3.75 (111.3 / 95.3)	4.33 / N/A (110.0 / N/A)	.31 x .85 / .31 x .85 (7.9 x 21.6 / 7.9 x 21.6)	19.0 (8.64)
750	E750W	E750WA	E750WB	7.01 (178.1)	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)	31.0 (14.09)
1000	E1000W	E1000WA	E1000WB	7.01 (178.1)	6.38 (162.1)	7.36 (186.9)	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)	36.0 (16.36)

Notes: WA and WB suffix include finger safe covers. Fuses not included. W option for secondary fusing requires assembly (FB2 sold separately).