

## NEW A E/CE Series Industrial Control Transformers



### FEATURES & BENEFITS

- Epoxy encapsulated design protects core & coil assembly from potentially damaging contaminants.
- Integrally molded terminal blocks with isolation barriers to prevent arc over, terminal blocks allow full access for ring terminals for easy installation and solid termination.
- Heavy gauge steel mounting feet.
- Available factory or field installed fuse blocks provide integral fusing on the primary or primary and secondary.
- Dual labeling for easy product identification when equipped with a fuse block.
- 50-750 VA, 50/60 Hz.
- UL and cUL Listed, CE Marked (CE Series only).
- Ten-year limited warranty.
- 55° C Temperature Rise.
- 105° C Insulation Class.

### CE Series for Global Applications

Acme's CE Series Encapsulated Industrial Control Transformers carry the CE mark, indicating it complies with the requirements established by the International Electrotechnical Commission (IEC) for use of control circuit transformers in the countries of the European Union. Regulations that apply to control transformers include Low Voltage Directive 73/23/EEC and Electromagnetic Compatibility (EMC) Directive 89/336/EEC.



The Acme Electric AE and CE Series Industrial Control Transformers are designed specifically for machine tool control circuit applications. These transformers have the ability to handle potentially damaging high in-rush currents that occur when electromagnetic components are energized, without sacrificing the required stable output voltage. Designed to meet or exceed the demands of international standards, combined with the full breadth of product offering, the AE and CE Series Transformers from Acme Electric are the ideal solution for your industrial control applications.

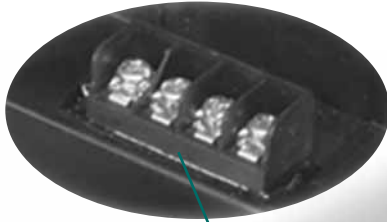
### Cooler. Cleaner. More Compact.

The AE and CE Series design improves the dissipation of the heat away from the core and coil assembly providing cooler operation. In addition, the AE and CE Series industrial control transformers seal the transformer's windings and internal terminations within an epoxy encapsulant encased in a durable thermoplastic end cap, protecting them from potentially damaging moisture, dirt and other ambient contaminants. Furthermore, Acme's compact design helps minimize the mounting footprint, providing more flexibility in applications where space is at a premium.

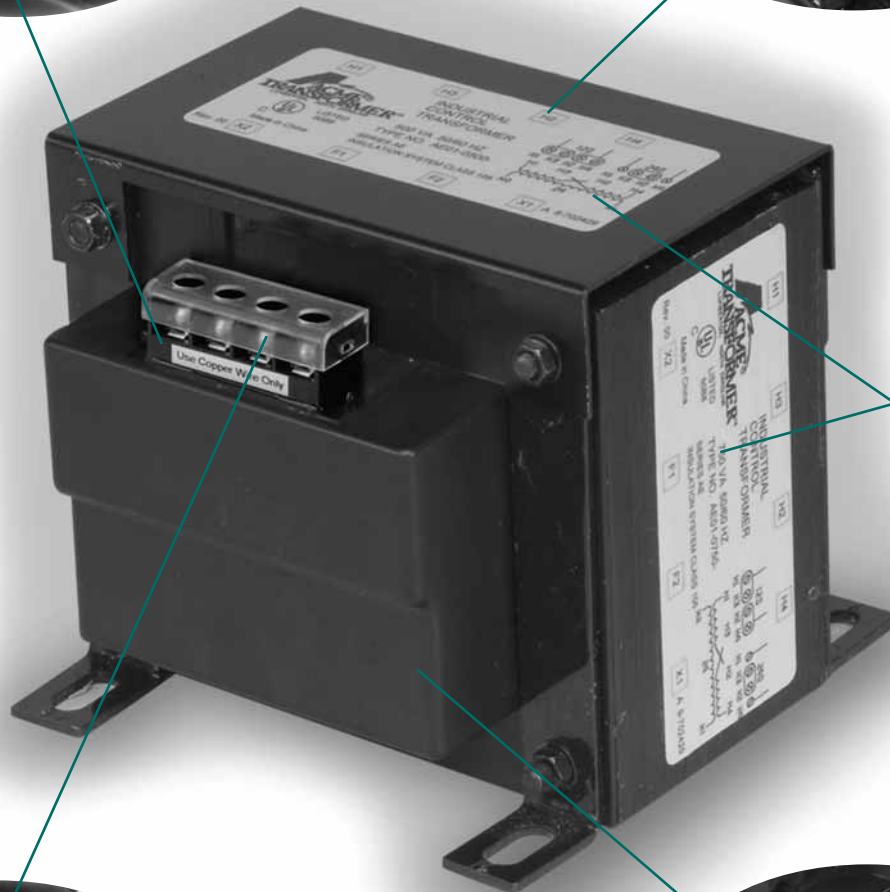
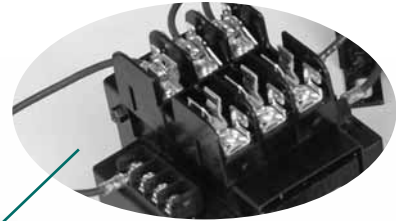


## FEATURES

Integrally molded terminal blocks with combination slotted/Phillips screws. Isolation barriers protect against arc over while able to accommodate a full ring terminal.



Integrally mounted fuse blocks available in standard and touch-proof (CE Series) style.



Dual labels for identification of fused modules



CE Series offers touch-proof terminals, isolating live contacts for additional safety.



Epoxy encapsulated copper windings and internal terminations, providing isolation from external contaminants and physical damage.

## SELECTION CHARTS

## CE SERIES

NEW  
GROUP IC

## 120 x 240 PRIMARY VOLTS — 24 SECONDARY VOLTS — 1Ø, 50/60 Hz

VA RATING	CATALOG NUMBER	APPROX. DIMENSIONS INCHES (CM.)					MOUNTING SLOT		APPROX. SHIPPING WT
		A	B	C	D	E	F		
50	CE01-0050	2.69 (6.8)	3.00 (7.6)	2.81 (7.1)	2.25 (5.7)	2.56 (6.5)	.20 x .40 (0.5 x 1.0)	2.5 (1.2)	
75	CE01-0075	3.22 (8.1)	3.41 (8.6)	2.81 (7.1)	2.25 (5.7)	2.88 (7.3)	.20 x .40 (0.5 x 1.0)	3.5 (1.6)	
100	CE01-0100	3.28 (8.3)	3.75 (9.5)	3.09 (7.8)	2.53 (6.4)	3.13 (7.9)	.20 x .40 (0.5 x 1.0)	4.2 (1.9)	
150	CE01-0150	3.88 (9.8)	4.50 (11.4)	3.41 (8.6)	2.53 (6.4)	3.84 (9.7)	.20 x .40 (0.5 x 1.0)	6.6 (3.0)	
250	CE01-0250	4.13 (10.4)	4.50 (11.4)	4.03 (10.2)	3.22 (8.1)	3.84 (9.7)	.20 x .40 (0.5 x 1.0)	9.4 (4.3)	
350	CE01-0350	5.00 (12.7)	5.25 (13.3)	4.03 (10.2)	3.75 (9.5)	4.50 (11.4)	.31 x .69 (0.8 X 1.7)	13.0 (5.9)	
500	CE01-0500	5.50 (13.9)	5.25 (13.3)	4.66 (11.8)	4.28 (10.8)	4.50 (11.4)	.31 x .69 (0.8 X 1.7)	19.1 (8.7)	
750	CE01-0750	7.03 (17.8)	5.25 (13.3)	4.66 (11.8)	5.75 (14.6)	4.50 (11.4)	.31 x .69 (0.8 X 1.7)	26.6 (12.1)	

NEW  
GROUP IIC

## 200/220/440, 208/230/460, 240/480 PRIMARY VOLTS — 23/110, 24/115, 25/120 SECONDARY VOLTS — 1Ø, 50/60 Hz

VA RATING	CATALOG NUMBER	APPROX. DIMENSIONS INCHES (CM.)					MOUNTING SLOT		APPROX. SHIPPING WT
		A	B	C	D	E	F		
50	CE02-0050	3.28 (8.3)	3.28 (8.3)	2.81 (7.1)	2.25 (5.7)	2.81 (7.1)	.20 x .40 (0.5 x 1.0)	2.7 (1.2)	
100	CE02-0100	4.03 (10.2)	3.75 (9.5)	3.13 (7.9)	3.22 (8.1)	3.16 (8.0)	.20 x .40 (0.5 x 1.0)	4.3 (1.9)	
150	CE02-0150	4.03 (10.2)	4.50 (11.4)	3.41 (8.6)	2.81 (7.1)	3.75 (9.5)	.20 x .40 (0.5 x 1.0)	6.8 (3.0)	
250	CE02-0250	4.78 (12.1)	4.50 (11.4)	4.03 (10.2)	4.06 (10.3)	3.75 (9.5)	.20 x .40 (0.5 x 1.0)	9.7 (4.4)	
350	CE02-0350	5.53 (14.0)	5.25 (13.3)	4.03 (10.2)	4.28 (10.8)	4.38 (11.1)	.31 x .69 (0.8 X 1.7)	13.5 (6.1)	
500	CE02-0500	7.25 (18.4)	5.25 (13.3)	4.69 (11.9)	6.00 (15.2)	4.38 (11.1)	.31 x .69 (0.8 X 1.7)	19.6 (8.9)	
750	CE02-0750	6.81 (17.3)	5.28 (13.4)	4.69 (11.9)	5.75 (14.6)	4.44 (11.2)	.31 x .69 (0.8 X 1.7)	27.0 (12.2)	

NEW  
GROUP IIIC

## 240 x 480 PRIMARY VOLTS — 24 SECONDARY VOLTS — 1Ø, 50/60 Hz

VA RATING	CATALOG NUMBER	APPROX. DIMENSIONS INCHES (CM.)					MOUNTING SLOT		APPROX. SHIPPING WT
		A	B	C	D	E	F		
50	CE03-0050	3.00 (7.6)	3.00 (7.6)	2.81 (7.1)	2.25 (5.7)	2.53 (6.4)	.20 x .40 (0.5 x 1.0)	2.5 (1.1)	
75	CE03-0075	3.28 (8.3)	3.28 (8.3)	2.81 (7.1)	2.25 (5.7)	2.81 (7.1)	.20 x .40 (0.5 x 1.0)	3.5 (1.6)	
100	CE03-0100	3.28 (8.3)	3.75 (9.5)	3.09 (7.8)	2.53 (6.4)	3.13 (7.9)	.20 x .40 (0.5 x 1.0)	4.0 (1.8)	
150	CE03-0150	3.88 (9.8)	4.50 (11.4)	3.47 (8.8)	2.53 (6.4)	3.75 (9.5)	.20 x .40 (0.5 x 1.0)	6.5 (2.9)	
250	CE03-0250	4.13 (10.4)	4.50 (11.4)	4.03 (10.2)	3.22 (8.1)	3.75 (9.5)	.20 x .40 (0.5 x 1.0)	9.2 (4.2)	
350	CE03-0350	5.00 (12.7)	5.25 (13.3)	4.03 (10.2)	3.75 (9.5)	4.38 (11.1)	.31 x .69 (0.8 X 1.7)	12.7 (5.8)	
500	CE03-0500	5.53 (14.0)	5.25 (13.3)	4.66 (11.8)	4.28 (10.8)	4.38 (11.1)	.31 x .69 (0.8 X 1.7)	19.0 (8.6)	
750	CE03-0750	7.03 (17.8)	5.25 (13.3)	4.66 (11.8)	5.41 (13.7)	4.38 (11.1)	.31 x .69 (0.8 X 1.7)	26.0 (11.8)	

NEW

## GROUP IVC



380/400/415 PRIMARY VOLTS — 110/220 SECONDARY VOLTS — 1Ø, 50/60 Hz

VA RATING	CATALOG NUMBER	APPROX. DIMENSIONS INCHES (CM.)					MOUNTING SLOT	APPROX. SHIPPING T
		A	B	C	D	E	F	
50	CE04-0050	3.53 (8.9)	3.00 (7.6)	2.81 (7.1)	2.53 (6.4)	2.53 (6.4)	.20 x .40 (0.5 x 1.0)	2.6 (1.2)
100	CE04-0100	3.53 (8.9)	3.75 (9.5)	3.22 (8.1)	2.53 (6.4)	3.13 (8.0)	.20 x .40 (0.5 x 1.0)	4.3 (1.9)
150	CE04-0150	3.53 (8.9)	4.34 (11.0)	3.41 (8.6)	2.53 (6.4)	3.75 (9.5)	.20 x .40 (0.5 x 1.0)	6.7 (3.0)
250	CE04-0250	4.03 (10.2)	4.50 (11.4)	4.22 (10.7)	3.22 (8.1)	3.75 (9.5)	.20 x .40 (0.5 x 1.0)	9.4 (4.3)
350	CE04-0350	4.91 (12.4)	4.50 (11.4)	4.22 (10.7)	4.06 (10.3)	4.38 (11.1)	.20 x .40 (0.5 x 1.0)	13.0 (5.9)
500	CE04-0500	6.00 (15.2)	5.25 (13.3)	4.69 (11.9)	4.78 (12.1)	4.38 (11.1)	.31 x .69 (0.8 X 1.7)	18.8 (8.5)
750	CE04-0750	6.81 (17.3)	5.25 (13.3)	4.69 (11.9)	5.75 (14.6)	4.38 (11.1)	.31 x .69 (0.8 X 1.7)	26.0 (11.8)

NEW

## GROUP VC

208, 220/380/440, 230/400/460, 240/416/480 PRIMARY VOLTS —  
85/100/110, 91/110/120, 95/115/125, 99/120/130 SECONDARY VOLTS — 1Ø, 50/60 Hz

VA RATING	CATALOG NUMBER	APPROX. DIMENSIONS INCHES (CM.)					MOUNTING SLOT	APPROX. SHIPPING T
		A	B	C	D	E	F	
50	CE05-0050	4.03 (10.2)	3.41 (8.6)	3.09 (7.8)	2.47 (6.2)	2.81 (7.1)	.20 x .40 (0.5 x 1.0)	2.7 (1.2)
150	CE05-0150	3.88 (9.8)	4.34 (11.0)	3.41 (8.6)	2.88 (7.3)	3.75 (9.5)	.20 x .40 (0.5 x 1.0)	6.7 (3.0)
250	CE05-0250	5.13 (13.0)	4.50 (11.4)	4.03 (10.2)	4.38 (11.1)	3.75 (9.5)	.20 x .40 (0.5 x 1.0)	9.5 (4.3)
350	CE05-0350	5.91 (15.0)	5.25 (13.3)	4.03 (10.2)	4.78 (12.1)	4.38 (11.1)	.31 x .69 (0.8 X 1.7)	13.3 (6.0)
500	CE05-0500	5.91 (15.0)	5.25 (13.3)	4.66 (11.8)	4.63 (11.7)	4.38 (11.1)	.31 x .69 (0.8 X 1.7)	19.0 (8.6)
750	CE05-0750	7.09 (18.0)	5.25 (13.3)	4.66 (11.1)	5.81 (14.7)	4.38 (11.1)	.31 x .69 (0.8 X 1.7)	27.0 (12.2)

NEW

## GROUP VIC

240 x 480, 230 x 460, 220 x 440 PRIMARY VOLTS — 120/115/110 SECONDARY VOLTS — 1Ø, 50/60 Hz

VA RATING	CATALOG NUMBER	APPROX. DIMENSIONS INCHES (CM.)					MOUNTING SLOT	APPROX. SHIPPING T
		A	B	C	D	E	F	
50	CE06-0050	3.41 (8.6)	3.00 (7.6)	2.81 (7.1)	2.53 (6.4)	2.53 (6.4)	.20 x .40 (0.5 x 1.0)	2.6 (1.2)
75	CE06-0075	3.41 (8.6)	3.28 (8.3)	2.81 (7.1)	2.53 (6.4)	2.81 (7.1)	.20 x .40 (0.5 x 1.0)	3.6 (1.6)
100	CE06-0100	3.41 (8.6)	3.75 (9.5)	3.09 (7.8)	2.53 (6.4)	3.13 (7.9)	.20 x .40 (0.5 x 1.0)	4.3 (1.9)
150	CE06-0150	3.88 (9.8)	4.50 (11.4)	3.47 (8.8)	2.53 (6.4)	3.75 (9.5)	.20 x .40 (0.5 x 1.0)	6.7 (3.0)
250	CE06-0250	4.13 (10.4)	4.50 (11.4)	4.03 (10.2)	3.22 (8.1)	3.75 (9.5)	.20 x .40 (0.5 x 1.0)	9.4 (4.3)
300	CE06-0300	4.53 (11.5)	4.50 (11.4)	4.03 (10.2)	3.75 (9.5)	3.75 (9.5)	.20 x .40 (0.5 x 1.0)	10.9 (4.9)
350	CE06-0350	5.00 (12.7)	5.25 (13.3)	4.03 (10.2)	3.75 (9.5)	4.38 (11.1)	.31 x .69 (0.8 X 1.7)	13.0 (5.9)
500	CE06-0500	6.00 (15.2)	5.25 (13.3)	4.66 (11.8)	4.78 (12.1)	4.38 (11.1)	.31 x .69 (0.8 X 1.7)	18.8 (8.5)
750	CE06-0750	6.81 (17.3)	5.25 (13.3)	4.66 (11.8)	5.75 (14.6)	4.38 (11.1)	.31 x .69 (0.8 X 1.7)	26.0 (11.8)

## FUSE SIZING CHARTS

### PRIMARY FUSE SIZING CHARTS

#### RECOMMENDED RATING FOR CURRENT LIMITING CLASS CC FUSES

	120 V	208 V	220 V	230 V	240 V	380 V	400 V	416 V	440 V	460 V	480 V	500 V	550 V	575 V	600 V
50 VA	1.25	0.60	0.60	0.60	0.60	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.25	0.25	0.25
75 VA	1.80	1.00	1.00	0.80	0.80	0.50	0.50	0.50	0.50	0.40	0.40	0.40	0.40	0.30	0.30
100 VA	2.50	1.40	1.25	1.25	1.25	0.75	0.75	0.60	0.60	0.60	0.60	0.60	0.50	0.50	0.50
150 VA	3.50	2.00	2.00	1.80	1.80	1.13	1.13	1.00	1.00	0.80	0.80	0.80	0.80	0.75	0.75
250 VA	3.20	3.50	3.20	3.20	3.00	1.80	1.80	1.80	1.60	1.60	1.50	1.50	1.25	1.25	1.25
300 VA	4.00	4.00	4.00	3.50	3.50	2.25	2.25	2.00	2.00	1.80	1.80	1.80	1.60	1.50	1.50
350 VA	4.50	5.00	4.50	4.50	4.00	2.50	2.50	2.50	2.25	2.25	2.00	2.00	1.80	1.80	1.60
500 VA	6.25	4.00	3.50	3.50	3.20	3.50	3.50	3.50	3.20	3.20	3.00	3.00	2.50	2.50	2.50
750 VA	10.00	6.00	5.60	5.00	5.00	5.60	5.60	5.00	5.00	4.50	4.50	4.50	4.00	3.50	3.50

NOTE: Bold lines indicate changes in the percent of rated current used to calculate fuse sizes in accordance with article 450 of the NEC.

### SECONDARY FUSE SIZING CHARTS

#### RECOMMENDED RATING FOR CURRENT LIMITING MIDGET FUSES

	24 V	85 V	91 V	95 V	99 V	100 V	110 V	115 V	120 V	125 V	130 V
50 VA	2.00	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.25
75 VA	3.00	–	–	–	–	–	0.75	0.75	0.75	–	–
100 VA	5.00	–	–	–	–	–	1.00	1.00	1.00	–	–
150 VA	6.00	2.00	2.00	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.00
250 VA	12.00	3.00	3.00	3.00	3.00	3.00	2.00	2.00	2.00	2.00	2.00
300 VA	–	–	–	–	–	–	3.00	3.00	3.00	–	–
350 VA	15.00	5.00	4.00	4.00	4.00	4.00	3.00	3.00	3.00	3.00	3.00
500 VA	25.00	6.00	6.00	6.00	6.00	6.00	5.00	5.00	5.00	5.00	4.00
750 VA	35.00	10.00	10.00	8.00	8.00	8.00	8.00	8.00	6.00	6.00	6.00

### CONNECTION DETAILS FOR AE05 & CE05

H1-H2	H1-H3	H1-H4	1- 2	1- 3	1- 4
208			85	100	110
220	380	440	91	110	120
230	400	460	95	115	125
240	416	480	99	120	130