

Section 5 | Selection Charts / CE Series

CE SERIES INDUSTRIAL CONTROL TRANSFORMERS FOR GLOBAL APPLICATIONS

The Acme Electric 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 CE Series Transformers from Acme Electric are the ideal solution for your industrial control applications. Acme's CE Series Encapsulated Industrial Control Transformers carry the CE mark, indicating it complies with the requirements established by the International Electro technical 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 2006/95/EC and Electromagnetic Compatibility (EMC) Directive 2004/108/EC

Cooler. Cleaner. More Compact.

The CE Series design improves the dissipation of the heat away from the core and coil assembly providing cooler operation. In addition, the CE Series industrial control transformers seal the transformer's windings and internal terminations within an 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

- 50 -5000 VA, 50/60 Hz
- 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
- UL and cUL Listed
- **Twenty-year limited Warranty**



CE SERIES

Group M

120 X 240 PRIMARY VOLTS -24 SECONDARY VOLTS - 1Ø 50/60 HZ

VA Rating	Catalog Number	Dimensions (inches)						Weight (lb)	Wiring Diag.
		A	B	C	D	E	F		
50	CE50N002	3.32	3.00	2.79	2.00	2.50	.20X.41	2.6	2
75	CE75N002	3.82	3.00	2.79	2.50	2.50	.20X.41	3.5	2
100	CE100N002	3.78	3.38	3.11	2.38	2.81	.20X.41	4.2	2
150	CE150N002	4.27	3.75	3.42	2.88	3.13	.20X.41	6.7	2
250	CE250N002	4.55	4.50	4.04	2.88	3.75	.20X.41	10.0	2
350	CE350N002	5.28	4.50	4.04	3.75	3.75	.20X.41	13.6	2
500	CE500N002	5.75	5.25	4.66	4.25	4.38	.31X1.1	19.2	2
750	CE750N002	7.00	5.25	4.66	5.38	4.38	.31X1.1	28.1	2
1000	CE1000N002	6.61	7.00	5.65	4.00	6.13	.31x1.1	29.8	2

Group N

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

VA Rating	Catalog Number	Dimensions (inches)						Weight (lb)	Wiring Diag.
		A	B	C	D	E	F		
50	CE50N004	3.73	3.00	2.79	2.50	2.50	.20X.41	3.5	4
75	CE75N004	3.69	3.38	3.11	2.38	2.81	.20X.41	4.2	4
100	CE100N004	4.17	3.75	3.42	2.88	3.13	.20X.41	6.7	4
150	CE150N004	4.17	3.75	3.42	2.88	3.13	.20X.41	6.7	4
200	CE200N004	4.47	4.50	4.04	2.88	3.75	.20X.41	10.0	4
250	CE250N004	5.19	4.50	4.04	3.75	3.75	.20X.41	13.6	4
300	CE300N004	5.19	4.50	4.04	3.75	3.75	.20X.41	13.6	4
350	CE350N004	5.17	5.25	4.66	4.25	4.38	.31x1.1	19.2	4
500	CE500N004	6.42	5.25	4.66	5.38	4.38	.31x1.1	28.1	4
750	CE750N004	7.23	7.00	5.65	4.00	6.13	.31x1.1	30.0	4
1000	CE1000N004	7.98	7.00	5.43	5.13	6.13	.31x1.1	38.0	4



Section 5 | Selection Charts

Group R

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

VA Rating	Catalog Number	Dimensions (inches)(cm)						Weight (lb)	Wiring Diag.
		A	B	C	D	E	F		
350	CE350N008	5.28	4.50	4.04	3.75	3.75	.20X.41	13.6	8
500	CE500N008	5.75	5.25	4.66	4.25	4.38	.31x1.1	19.2	8
750	CE750N008	7.00	5.25	4.66	5.38	4.38	.31x1.1	28.1	8
1000	CE1000N008	6.61	7.00	5.65	4.00	6.13	.31x1.1	29.8	8
1500	CE1500N008	7.62	7.00	5.65	4.50	6.13	.31x1.1	30.0	8
2000	CE2000N008	8.37	7.00	5.43	5.13	6.13	.31x1.1	38.0	8
3000	CE3000N008	7.82	9.00	7.62	4.25	6.50	.44x1.0	53.0	8
5000	CE5000N008	9.06	9.00	7.62	7.25	7.50	.44x1.0	89.0	8

Group S

230, 460, 575 PRIMARY VOLTS — 95, 115 SECONDARY VOLTS — 1Ø 50/60 Hz

VA Rating	Catalog Number	Dimensions (inches)						Weight (lb)	Wiring Diag.
		A	B	C	D	E	F		
1000	CE1000N011	6.21	7.00	5.65	4.00	6.13	.31x1.1	29.8	11
1500	CE1500N011	7.98	7.00	5.43	5.13	6.13	.31x1.1	38.0	11
2000	CE2000N011	7.98	7.00	5.43	5.13	6.13	.44x1.0	38.0	11
3000	CE3000N011	9.00	9.00	7.62	7.25	7.50	.44x1.0	89.0	11

Group T

240, 347, 380 PRIMARY VOLTS — 120 X 240 SECONDARY VOLTS — 1Ø 50/60 Hz

VA Rating	Catalog Number	Dimensions (inches)						Weight (lb)	Wiring Diag.
		A	B	C	D	E	F		
1000	CE1000N012	6.23	7.00	5.65	4.00	6.13	.31x1.1	29.8	12
1500	CE1500N012	7.23	7.00	5.65	4.50	6.13	.31x1.1	30.0	12
2000	CE2000N012	7.98	7.00	5.65	5.13	6.13	.31x1.1	38.0	12
3000	CE3000N012	7.82	9.00	7.62	4.25	6.50	.44x1.0	53.0	12
5000	CE5000N012	8.81	9.00	7.62	7.25	7.50	.44x1.0	89.0	12

Group U

240 X 480 PRIMARY VOLTS — 24 SECONDARY VOLTS — 1Ø 50/60 Hz

VA Rating	Catalog Number	Dimensions (inches)						Weight (lb)	Wiring Diag.
		A	B	C	D	E	F		
50	CE50N013	3.32	3.00	2.79	2.00	2.50	.20X.41	2.6	13
75	CE75N013	3.82	3.00	2.79	2.50	2.50	.20X.41	3.5	13
100	CE100N013	3.78	3.38	3.11	2.38	2.81	.20X.41	4.2	13
150	CE150N013	4.27	3.75	3.42	2.88	3.13	.20X.41	6.7	13
250	CE250N013	4.55	4.50	4.04	2.88	3.75	.20X.41	10.0	13
350	CE350N013	5.28	4.50	4.04	3.75	3.75	.20X.41	13.6	13
500	CE500N013	5.75	5.25	4.66	4.25	4.38	.31x1.1	19.2	13
750	CE750N013	7.00	5.25	4.66	5.38	4.38	.31x1.1	28.1	13
1000	CE1000N013	6.61	7.00	5.65	4.00	6.13	.31x1.1	29.8	13



INDUSTRIAL CONTROL TRANSFORMERS FOR HARSH ENVIRONMENTS

Designed for control panels where internal installation of Control Transformers is prohibited

Some specifications require installation of large control transformers, usually 1000 to 5000 VA outside the control cabinet. This means the transformer must be in a sheet metal enclosure instead of the usual open core and coil construction method.

Acme meets this need by providing all of the power, protection, regulation and performance of our standard industrial control transformers in one UL-3R enclosure. These transformers are wound with copper magnet wire, deliver full nameplate capacity, and provide the high regulation required in control applications.

Voltage combinations available are: 240 X 480V Primary, 120V Secondary and 240/480/600V Primary, 120/100V Secondary. Ratings available are 1000, 2000, 3000 and 5000 VA. All units are UL listed, CSA certified, and covered by Acme's exclusive 10-year limited warranty.

Features

- Fully encapsulated and enclosed
- 55°C temperature rise, 155°C insulation
- Copper windings
- 1000, 2000, 3000, 5000 and 10000 VA sizes
- Voltage regulation exceeds NEMA requirements
- UL and UL-3R listed
- 10-year limited warranty



240 X 480 PRIMARY VOLTS — 120 SECONDARY VOLTS — 1Ø, 50/60 Hz

VA Rating	Catalog Number	Output Amps	Height (inches)(cm)	Width (inches)(cm)	Depth (inches)(cm)	Weight (lbs.)(kg)	Wiring Diagram
1000	T181217	8.33	13.10 (33.3)	10.31 (26.2)	7.13 (18.1)	55 (24.9)	B
2000	T181219	16.67	14.77 (37.5)	10.31 (26.2)	7.13 (18.1)	80 (36.3)	B
3000	T181220	25.00	14.77 (37.5)	10.31 (26.2)	7.13 (18.1)	100 (45.4)	B
5000	T181221	41.67	13.85 (35.2)	13.25 (33.7)	10.19 (25.9)	140 (63.5)	B
10000	T181223	83.3	16.47 (41.8)	13.88 (35.3)	12.94 (32.9)	308 (139.7)	B

240/480/600 PRIMARY VOLTS — 120/100 SECONDARY VOLTS — 1Ø, 50/60 Hz

VA Rating	Catalog Number	Output Amps	Height (Inches)(Cm.)	Width (Inches)(Cm.)	Depth (Inches)(Cm.)	Weight (Lbs.)(Kg.)	Wiring Diagram
2000	T153929	16.67	14.77 (37.5)	10.31 (26.2)	7.13 (18.1)	80 (36.3)	C
3000	T153930	25.00	13.85 (35.2)	13.25 (33.7)	10.19(25.9)	130 (59.0)	C
5000	T153931	41.67	13.85 (35.2)	13.25 (33.7)	10.19 (25.9)	140 (63.5)	C

HARSH ENVIRONMENT WIRING DIAGRAMS

