

INDUSTRIAL CONTROL TRANSFORMERS

Industrial control transformers are used to reduce supply voltages to 240V or lower for the operation of electromagnetic devices such as contactors, solenoids, relays, and timers. They are especially designed to accommodate the momentary current inrush caused when electromagnetic components are energized without sacrificing secondary voltage stability beyond practical limits.

Acme Industrial Control Transformers are dry-type, step-down transformers with the secondary control circuit isolated from the primary line circuit to assure maximum safety.

Voltage regulation of Acme Industrial Control Transformers exceeds standards recommended by the National Electrical Manufacturers Association. Secondary circuit voltage drop between no-load and momentary overload remains exceptionally low. This excellent secondary circuit voltage regulation assures reliable operation of electromagnetic components and may permit the use of a smaller and less expensive industrial control transformer.

TB SERIES INDUSTRIAL CONTROL TRANSFORMER

Acme's TB Series Industrial Control Transformers are especially designed to accommodate the momentary current inrush caused when electromagnetic components are energized... without sacrificing secondary voltage stability beyond practical limits. The transformer's windings and internal terminations are sealed within an epoxy encapsulant encased in a durable thermoplastic end cap, protecting them from potentially damaging moisture, dirt and other ambient contaminants. Acme's TB Series transformers are dry-type, step-down transformers with the secondary control circuit isolated from the primary line circuit to assure maximum safety.

Voltage regulation of Acme's TB Series transformers exceeds standards recommended by the National Electrical Manufacturers Association. Secondary circuit voltage drop between no-load and momentary overload remains exceptionally low. This excellent secondary circuit voltage regulation assures reliable operation of electromagnetic components and may permit the use of a smaller and less expensive industrial control transformer.

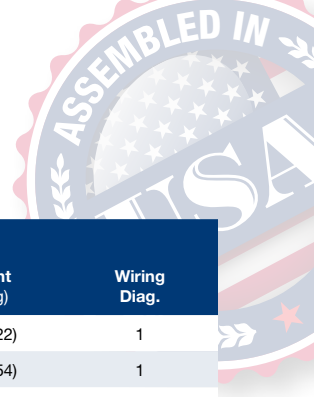
Features

- 50 –5000 VA, 50/60 Hz.
- Epoxy encapsulated design protects core & coil assembly from potentially damaging contaminants
- Constructed with high quality silicon steel lamination to minimize core losses and increase efficiency
- Integrally molded terminal blocks with isolation barriers to prevent arc over
- Primary fuse blocks kits available and easily adaptable
- Secondary Fuse Clips factory installed, where applicable
- Series-parallel connecting links save wiring and labor costs
- Terminal blocks allow full access for ring terminals for easy installation even with solid strand conductors
- Copper windings on all groups
- Heavy gauge steel mounting plate adapts to various mounting dimensions
- Voltage regulation exceeds NEMA requirements
- UL Listed and CSA Certified or cUL
- Meets or exceeds UL, CSA, NEMA, ANSI and OSHA Standards
- **Twenty year limited warranty**
- **Assembled in the USA of imported and domestic components**

Applications

- Motor Starters
- Contactors
- Solenoids
- Timer Circuits
- Relays
- Control Panels
- Robotics





TB SERIES

Group A

120 X 240 PRIMARY VOLTS — 12/24 SECONDARY VOLTS — 1Ø 50/60 Hz

VA Rating	Catalog Number	Dimensions (inches)(cm)					Weight (lb)(kg)	Wiring Diag.
		A	B	C	D	E		
50	TB50A001①	3.78 (9.60)	3 (7.62)	3.14 (7.98)	1.96 (4.98)	2.5 (6.35)	2.7 (1.22)	1
75	TB75A001①	4 (10.16)	3 (7.62)	4.52 (11.47)	2.42 (6.15)	2.5 (6.35)	3.4 (1.54)	1
100	TB100A001①	4 (10.16)	3.38 (8.59)	4.84 (12.28)	2.42 (6.15)	2.81 (7.14)	4.4 (2.00)	1
150	TB150B001①	4.03 (10.24)	3.75 (9.53)	3.77 (9.58)	2.82 (7.16)	3.13 (7.95)	6 (2.72)	1
200	TB200B001①	4.38 (11.13)	4.5 (11.43)	5.78 (14.67)	2.42 (6.15)	3.75 (9.53)	8.9 (4.04)	1
250	TB250B001①	4.38 (11.13)	4.5 (11.43)	5.78 (14.67)	2.82 (7.16)	3.75 (9.53)	9.3 (4.22)	1
300	TB300B001②	4.75 (12.07)	4.5 (11.43)	3.98 (10.11)	3.18 (8.08)	3.75 (9.53)	11 (4.99)	1
350	TB350B001②	5 (12.7)	4.5 (11.43)	3.98 (10.11)	3.43 (8.71)	3.75 (9.53)	11.3 (5.13)	1
500	TB500B001②	5.45 (13.84)	5.25 (13.34)	4.64 (11.79)	3.87 (9.83)	4.38 (11.1)	18 (8.16)	1
750	TB750B001②	6.95 (17.65)	5.25 (13.34)	4.64 (11.79)	5.37 (13.64)	4.38 (11.13)	26.5 (12.02)	1

Group B

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

VA Rating	Catalog Number	Dimensions (inches)(cm)					Weight (lb)(kg)	Wiring Diag.
		A	B	C	D	E		
50	TB50A003①	3.78 (9.60)	3 (7.62)	2.72 (6.91)	1.96 (4.98)	2.5 (6.35)	2.7 (1.22)	3
100	TB100A003①	4 (10.16)	3.38 (8.59)	3.03 (7.70)	2.42 (6.15)	2.81 (7.14)	4.4 (2.00)	3
150	TB150B003①	4.03 (10.24)	3.75 (9.53)	3.35 (8.51)	2.82 (7.16)	3.13 (7.95)	6 (2.72)	3
250	TB250B003①	4.38 (11.13)	4.5 (11.43)	3.97 (10.08)	2.82 (7.16)	3.75 (9.53)	9.3 (4.22)	3
350	TB350B003①	4.75 (12.07)	4.5 (11.43)	3.97 (10.08)	3.74 (9.50)	3.75 (9.53)	11.6 (5.26)	3
500	TB500B003①	6.11 (15.52)	5.25 (13.34)	4.63 (11.76)	3.87 (9.83)	4.38 (11.13)	17.4 (7.89)	3
750	TB750B003①	7.61 (19.33)	5.25 (13.34)	4.63 (11.76)	5.37 (13.64)	4.38 (11.13)	26.5 (12.02)	3

Group C

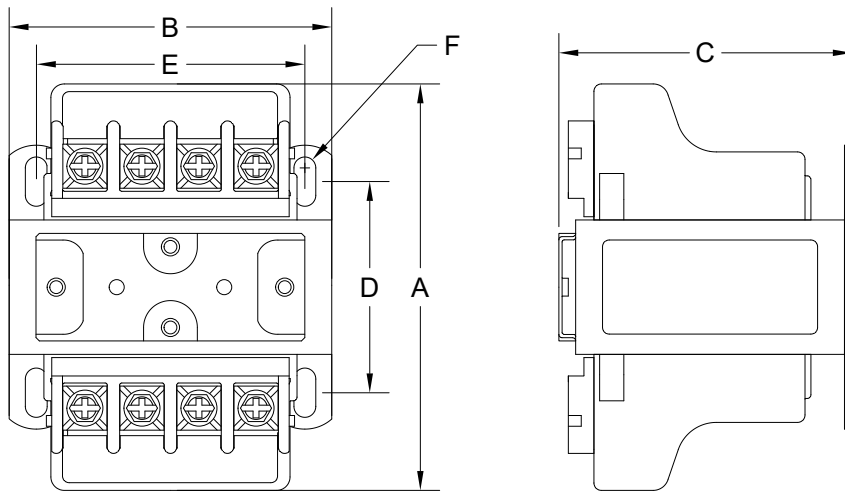
200, 208/220, 230, 240/440, 460, 480 PRIMARY VOLTS — 23, 24, 25/110, 115, 120 SECONDARY VOLTS — 1Ø 50/60 Hz

VA Rating	Catalog Number	Dimensions (inches)(cm)					Weight (lb)(kg)	Wiring Diag.
		A	B	C	D	E		
50	TB50A004C*①	4.53 (11.51)	3 (7.62)	3.14 (7.98)	2.82 (7.16)	2.5 (6.35)	4.3 (1.95)	4
75	TB75A004C*①	4.5 (11.43)	3.38 (8.59)	3.46 (8.79)	2.82 (7.16)	2.81 (7.14)	5.5 (2.49)	4
100	TB100A004C*①	4.53 (11.51)	3.75 (9.53)	3.78 (9.60)	2.99 (7.59)	3.13 (7.95)	6.5 (2.95)	4
150	TB150B004C*①	5.03 (12.78)	3.75 (9.53)	3.78 (9.60)	3.18 (8.08)	3.13 (7.95)	9.5 (4.31)	4
200	TB200B004C*①	4.38 (11.13)	4.5 (11.43)	4.4 (11.18)	2.99 (7.59)	3.75 (9.53)	9.8 (4.45)	4
250	TB250B004C*①	4.75 (12.07)	4.5 (11.43)	4.4 (11.18)	3.74 (9.50)	3.75 (9.53)	11.3 (5.13)	4
300	TB300B004C*①	6.11 (15.52)	5.25 (13.34)	5.14 (13.06)	3.87 (9.83)	4.38 (11.13)	14.1 (6.40)	4
350	TB350B004C*①	6.11 (15.52)	5.25 (13.34)	5.14 (13.06)	3.87 (9.83)	4.38 (11.13)	16.4 (7.44)	4
500	TB500B004C*①	7.11 (18.06)	5.25 (13.34)	5.14 (13.06)	5.37 (13.64)	4.38 (11.13)	23.1 (10.48)	4
750	TB750B004C*①	7.11 (18.06)	6.75 (17.15)	6.3 (16.00)	4.97 (12.62)	6.13 (15.57)	38.6 (17.51)	4
1000	TB1000B004C*②	8.13 (20.65)	6.75 (17.15)	5.73 (14.55)	6.13 (15.57)	6.13 (15.57)	48.4 (21.95)	4

*Secondary Fuse Clips Factory Installed

VA Rating	Catalog Number	Dimensions (inches)(cm)					Weight (lb)(kg)	Wiring Diag.
		A	B	C	D	E		
50	CE50A017	3.38 (8.59)	3 (7.62)	3 (7.62)	2.42 (6.15)	2.5 (6.35)	3.4 (1.54)	17
75	CE75A017	3.38 (8.59)	3.38 (8.59)	3.25 (8.26)	2.42 (6.15)	2.81 (7.14)	4.8 (2.18)	17
100	CE100A017	3.38 (8.59)	3.75 (9.53)	3.5 (8.89)	2.42 (6.15)	3.13 (7.95)	5.9 (2.68)	17
150	CE150B017	3.75 (9.53)	4.5 (11.43)	4 (10.16)	2.42 (6.15)	3.75 (9.53)	8.5 (3.86)	17
200	CE200B017	3.75 (9.53)	4.5 (11.43)	4 (10.16)	2.99 (7.59)	3.75 (9.53)	10 (4.54)	17
250	CE250B017	4 (10.16)	4.5 (11.43)	4 (10.16)	3.18 (8.08)	3.75 (9.53)	11 (4.99)	17
300	CE300B017	4.38 (11.13)	4.5 (11.43)	4 (10.16)	3.74 (9.50)	3.75 (9.53)	13 (5.90)	17
350	CE350B017	4.5 (11.43)	5.25 (13.34)	4.5 (11.43)	3.37 (8.56)	4.38 (11.13)	15 (6.80)	17
500	CE500B017	5.13 (13.03)	5.25 (13.34)	4.5 (11.43)	4.37 (11.10)	4.38 (11.13)	20 (9.07)	17
750	CE750B017	7 (17.78)	5.25 (13.34)	4.5 (11.43)	5.37 (13.64)	4.38 (11.13)	28 (12.70)	17

TB/CE SERIES DIMENSIONAL DRAWING



TB/CE SERIES WIRING DIAGRAMS

