

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 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.
- 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
- Fuse blocks kits available and easily adaptable
- Secondary Fuse Clips included, 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, and cUL Listed
- Meets or exceeds UL, CSA, NEMA, ANSI and OSHA Standards
- **Twenty year limited warranty**

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)						Weight (lb)	Wiring Diag.
		A	B	C	D	E	F		
50	TB50N001	3.32	3.00	2.79	2.00	2.50	.20X.41	2.6	1
75	TB75N001	3.82	3.00	2.79	2.50	2.50	.20X.41	3.5	1
100	TB100N001	3.78	3.38	3.11	2.38	2.81	.20X.41	4.2	1
150	TB150N001	4.27	3.75	3.42	2.88	3.13	.20X.41	6.7	1
250	TB250N001	4.55	4.50	4.04	2.88	3.75	.20X.41	10.0	1
350	TB350N001	5.28	4.50	4.04	3.75	3.75	.20X.41	13.6	1
500	TB500N001	5.75	5.25	4.66	4.25	4.38	.31X1.1	19.2	1
750	TB750N001	7.00	5.25	4.66	5.38	4.38	.31X1.1	28.1	1

Group B

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	TB50N004F0	3.73	3.00	2.79	2.50	2.50	.20X.41	3.5	4
75	TB75N004F0	3.69	3.38	3.11	2.38	2.81	.20X.41	4.2	4
100	TB100N004F0	4.17	3.75	3.42	2.88	3.13	.20X.41	6.7	4
150	TB150N004F0	4.17	3.75	3.42	2.88	3.13	.20X.41	6.7	4
200	TB200N004F0	4.47	4.50	4.04	2.88	3.75	.20X.41	10.0	4
250	TB250N004F0	5.19	4.50	4.04	3.75	3.75	.20X.41	13.6	4
300	TB300N004F0	5.19	4.50	4.04	3.75	3.75	.20X.41	13.6	4
350	TB350N004F0	5.17	5.25	4.66	4.25	4.38	.31x1.1	19.2	4
500	TB500N004F0	6.42	5.25	4.66	5.38	4.38	.31x1.1	28.1	4
750	TB750N004F0	7.23	7.00	5.65	4.00	6.13	.31x1.1	30.0	4
1000	TB1000N004F0	7.98	7.00	5.43	5.13	6.13	.31x1.1	38.0	4

Group C

208, 230, 460 PRIMARY VOLTS -115 SECONDARY VOLTS - 1Ø 50/60 HZ

VA Rating	Catalog Number	Dimensions (inches)						Weight (lb)	Wiring Diag.
		A	B	C	D	E	F		
50	TB50N005F0	3.23	3.00	2.79	2.00	2.50	.20X.41	2.6	5
75	TB75N005F0	3.73	3.00	2.79	2.50	2.50	.20X.41	3.5	5
100	TB100N005F0	3.69	3.38	3.11	2.38	2.81	.20X.41	4.2	5
150	TB150N005F0	4.17	3.75	3.42	2.88	3.13	.20X.41	6.7	5
200	TB200N005F0	3.96	4.50	4.04	2.88	3.75	.20X.41	8.5	5
250	TB250N005F0	4.47	4.50	4.04	3.25	3.75	.20X.41	10.0	5
300	TB300N005F0	4.47	4.50	4.04	3.25	3.75	.20X.41	11.3	5
350	TB350N005F0	5.19	4.50	4.04	3.75	3.75	.20X.41	13.6	5
500	TB500N005F0	5.17	5.25	4.66	4.75	4.38	.31x1.1	19.2	5
750	TB750N005F0	6.42	5.25	4.66	5.38	4.38	.31x1.1	28.1	5
1000	TB1000N005F0	6.21	7.00	5.65	4.00	6.13	.31x1.1	29.8	5
1500	TB1500N005F0	7.23	7.00	5.65	4.50	6.13	.31x1.1	30.0	5
2000	TB2000N005F0	7.98	7.00	5.43	5.13	6.13	.31x1.1	38.0	5
3000	TB3000N005	7.50	9.00	7.62	4.25	6.50	.44x1.0	53.0	5
5000	TB5000N005	9.00	9.00	7.62	7.25	7.50	.44x1.0	89.0	5



ACME ICT TRANSFORMERS

Group D

208, 277 PRIMARY VOLTS — 120 SECONDARY VOLTS — 1Ø 50/60 Hz

VA Rating	Catalog Number	Dimensions (inches)						Weight (lb)	Wiring Diag.
		A	B	C	D	E	F		
50	TB50N006FO	3.23	3.00	2.79	2.00	2.50	.20X.41	2.6	6
75	TB75N006FO	3.73	3.00	2.79	2.50	2.50	.20X.41	3.5	6
100	TB100N006FO	3.69	3.38	3.11	2.38	2.81	.20X.41	4.2	6
150	TB150N006FO	4.17	3.75	3.42	2.88	3.13	.20X.41	6.7	6
250	TB250N006FO	4.47	4.50	4.04	2.88	3.75	.20X.41	10.0	6
350	TB350N006FO	5.19	4.50	4.04	3.75	3.75	.20X.41	13.6	6
500	TB500N006FO	5.17	5.25	4.66	4.25	4.38	.31x1.1	19.2	6
750	TB750N006FO	6.42	5.25	4.66	5.38	4.38	.31x1.1	28.1	6

Group E

208/500, 220/380/440/550, 230/400/460/575, 240/416/480/600 PRIMARY VOLTS
85/100/110, 91/110/120, 95/115/125, 99/120/130 Secondary Volts - 1Ø 50/60 Hz

VA Rating	Catalog Number	Dimensions (inches)						Weight (lb)	Wiring Diag.
		A	B	C	D	E	F		
50	TB50N007	4.44	3.00	3.45	2.38	2.81	.20X.41	4.2	7
100	TB100N007	4.90	3.75	4.01	2.88	3.13	.20X.41	6.7	7
150	TB150N007	4.58	4.50	4.64	2.88	3.75	.20X.41	10.0	7
250	TB250N007	5.08	4.50	4.64	3.75	3.75	.20X.41	13.6	7
350	TB350N007	6.42	5.25	4.66	5.38	4.38	.31x1.1	28.1	7
500	TB500N007	7.75	5.25	4.67	6.13	4.38	.31x1.1	28.1	7
750	TB750N007	6.21	6.38	5.65	4.00	6.13	.31x1.1	29.8	7
1000	TB1000N007	7.62	7.00	5.65	4.50	6.13	.31x1.1	30.0	7
1500	TB1500N007	8.37	7.00	5.43	5.13	6.13	.31x1.1	38.0	7
2000	TB2000N007	7.82	9.00	7.62	4.25	6.50	.44x1.0	53.0	7
3000	TB3000N007	9.06	9.00	7.62	7.25	7.50	.44x1.0	89.0	7

ACME ICT TRANSFORMERS

Group F

220,230,240X440,460,480 PRIMARY VOLTS -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	TB50N008FO	3.32	3.00	2.79	2.00	2.50	.20X.41	2.6	8
75	TB75N008FO	3.82	3.00	2.79	2.50	2.50	.20X.41	3.5	8
100	TB100N008FO	3.78	3.38	3.11	2.38	2.81	.20X.41	4.2	8
150	TB150N008FO	4.27	3.75	3.42	2.88	3.13	.20X.41	6.7	8
200	TB200N008FO	4.05	4.50	4.04	2.50	3.75	.20X.41	8.5	8
250	TB250N008FO	4.55	4.50	4.04	2.88	3.75	.20X.41	10.0	8
300	TB300N008FO	4.55	4.50	4.04	3.25	3.75	.20X.41	11.3	8
350	TB350N008FO	5.28	4.50	4.04	3.75	3.75	.20X.41	13.6	8
500	TB500N008FO	5.75	5.25	4.66	4.25	4.38	.31x1.1	19.2	8
750	TB750N008FO	7.00	5.25	4.66	5.38	4.38	.31x1.1	28.1	8
1000	TB1000N008FO	6.61	7.00	5.65	4.00	6.13	.31x1.1	29.8	8
1500	TB1500N008FO	7.62	7.00	5.65	4.50	6.13	.31x1.1	30.0	8
2000	TB2000N008FO	8.37	7.00	5.43	5.13	6.13	.31x1.1	38.0	8
3000	TB3000N008FO	7.82	9.00	7.62	4.25	6.50	.44x1.0	53.0	8
5000	TB5000N008FO	9.06	9.00	7.62	7.25	7.50	.44x1.0	89.0	8

Group G

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		
50	TB50N011FO	3.32	3.00	2.79	2.00	2.50	.20X.41	2.6	11
75	TB70N011FO	3.82	3.00	2.79	2.50	2.50	.20X.41	3.5	11
100	TB100N011FO	3.78	3.38	3.11	2.38	2.81	.20X.41	4.2	11
150	TB150N011FO	4.27	3.75	3.42	2.88	3.13	.20X.41	6.7	11
250	TB250N011FO	4.55	4.50	4.04	2.88	3.75	.20X.41	10.0	11
350	TB350N011FO	5.28	4.50	4.04	3.75	3.75	.20X.41	13.6	11
500	TB500N011FO	5.75	5.25	4.66	4.25	4.38	.31x1.1	19.2	11
750	TB750N011FO	7.00	5.25	4.66	5.38	4.38	.31x1.1	28.1	11
1000	TB1000N011FO	6.21	7.00	5.65	4.00	6.13	.31x1.1	29.8	11
1500	TB1500N011FO	7.98	7.00	5.43	5.13	6.13	.31x1.1	38.0	11
2000	TB2000N011FO	7.98	7.00	5.43	5.13	6.13	.31x1.1	38.0	11
3000	TB3000N011	9.00	9.00	7.62	7.25	7.50	.44x1.0	89.0	11
5000	TB5000N011	10.00	9.00	8.73	8.25	7.50	.44x1.0	101.0	11



Group H

240, 347, 380 PRIMARY VOLTS - 120X240 SECONDARY VOLTS - 1Ø 50/60 HZ

VA Rating	Catalog Number	Dimensions (inches)						Weight (lb)	Wiring Diag.
		A	B	C	D	E	F		
1000	TB1000N012	6.23	7.00	5.65	4.00	6.13	.31x1.1	29.8	12
1500	TB1500N012	7.23	7.00	5.65	4.50	6.13	.31x1.1	30.0	12
2000	TB2000N012	7.98	7.00	5.65	5.13	6.13	.31x1.1	38.0	12
3000	TB3000N012	7.82	9.00	7.62	4.25	6.50	.44x1.0	53.0	12
5000	TB5000N012	8.81	9.00	7.62	7.25	7.50	.44x1.0	89.0	12

Group I

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	TB50N013F0	3.32	3.00	2.79	2.00	2.50	.20X.41	2.6	13
75	TB75N013F0	3.82	3.00	2.79	2.50	2.50	.20X.41	3.5	13
100	TB100N013F0	3.78	3.38	3.11	2.38	2.81	.20X.41	4.2	13
150	TB150N013F0	4.27	3.75	3.42	2.88	3.13	.20X.41	6.7	13
250	TB250N013F0	4.55	4.50	4.04	2.88	3.75	.20X.41	10.0	13
350	TB350N013F0	5.28	4.50	4.04	3.75	3.75	.20X.41	13.6	13
500	TB500N013F0	5.75	5.25	4.66	4.25	4.38	.31x1.1	19.2	13
750	TB750N013	7.00	5.25	4.66	5.38	4.38	.31x1.1	28.1	13

Group J

240 X 480 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		
50	TB50N014	3.41	3.00	2.79	2.00	2.50	.20X.41	2.6	14
75	TB75N014	3.91	3.00	2.79	2.50	2.50	.20X.41	3.5	14
100	TB100N014	3.86	3.38	3.10	2.38	2.81	.20X.41	4.2	14
150	TB150N014	4.36	3.75	3.41	2.88	3.13	.20X.41	6.7	14
200	TB200N014	4.14	4.50	4.04	2.50	3.75	.20X.41	8.5	14
250	TB250N014	4.64	4.50	4.04	2.88	3.75	.20X.41	10.0	14
300	TB300N014	4.64	4.50	4.04	3.25	3.75	.20X.41	11.3	14
350	TB350N014	5.37	4.50	4.04	3.75	3.75	.20X.41	13.6	14
500	TB500N014	5.75	5.25	4.66	4.25	4.38	.31x1.1	19.2	14
750	TB750N014	6.74	5.25	4.66	5.38	4.38	.31x1.1	28.1	14
1000	TB1000N014	7.01	7.00	5.65	5.38	4.38	.31x1.1	29.8	14
1500	TB1500N014	8.00	7.00	5.65	4.50	6.13	.31x1.1	30.0	14
2000	TB2000N014	8.76	7.00	5.65	5.13	6.13	.31x1.1	38.0	14
3000	TB3000N014	8.14	9.00	7.62	4.25	6.50	.44x1.0	53.0	14
5000	TB5000N014	9.14	9.00	7.62	7.25	7.50	.44x1.0	89.0	14

Group K

380/400/415 PRIMARY VOLTS - 110 X 220 SECONDARY VOLTS - 1Ø 50/60 HZ

VA Rating	Catalog Number	Dimensions (inches)						Weight (lb)	Wiring Diag.
		A	B	C	D	E	F		
50	TB50N016	3.32	3.00	2.79	2.00	2.50	.20X.41	2.6	16
75	TB75N016	3.82	3.00	2.79	2.50	2.50	.20X.41	3.5	16
100	TB100N016	3.78	3.38	3.11	2.38	2.81	.20X.41	4.2	16
150	TB150N016	4.27	3.75	3.42	2.88	3.13	.20X.41	6.7	16
200	TB200N016	4.05	4.50	4.04	2.50	3.75	.20X.41	8.5	16
250	TB250N016	4.55	4.50	4.04	2.88	3.75	.20X.41	10.0	16
300	TB300N016	4.55	4.50	4.04	3.25	3.75	.20X.41	11.3	16
350	TB350N016	5.28	4.50	4.04	3.75	3.75	.20X.41	13.6	16
500	TB500N016	5.75	5.25	4.66	4.25	4.38	.31x1.1	19.2	16
750	TB750N016	7.00	5.25	4.66	5.38	4.38	.31x1.1	28.1	16

Group L

550/575/600 PRIMARY VOLTS - 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	TB50N017F0	3.23	3.00	2.79	2.00	2.50	.20X.41	2.6	17
75	TB75N017F0	3.73	3.00	2.79	2.50	2.50	.20X.41	3.5	17
100	TB100N017F0	3.69	3.38	3.11	2.38	2.81	.20X.41	4.2	17
150	TB150N017F0	4.17	3.75	3.42	2.88	3.13	.20X.41	6.7	17
250	TB250N017F0	4.47	4.50	4.04	2.88	3.75	.20X.41	10.0	17
350	TB350N017F0	5.19	4.50	4.04	3.75	3.75	.20X.41	13.6	17
500	TB500N017F0	5.17	5.25	4.66	4.25	4.38	.31x1.1	19.2	17
750	TB750N017F0	6.42	5.25	4.66	5.38	4.38	.31x1.1	28.1	17
1000	TB1000N017F0	6.23	7.00	5.65	4.00	6.13	.31x1.1	29.8	17

INTEGRALLY MOUNTED FUSE BLOCKS

Add Suffix to Catalog Number	Description
F1	Single Pole Secondary Fuse Block (Midget Fuse)
F2	Factory Installed 2 Pole Primary Fuse Block (Class CC Fuses)
F3	Factory Installed 3 Pole Primary & Secondary Fuse Block
F4	Factory Installed Primary Fuse Block & Secondary Fuse Clips

Consult Technical Service for available models

FUSE KITS & ACCESSORIES

Catalog Number	Description
PL112807	Secondary Fuse Clip
PL112808	Single Pole Secondary Fuse Block
PL112809	Dual Pole Primary Fuse Block
PL112810	Dual Pole Pri and Sec Fuse Blocks
PL112811	Dual Pole Pri Block with Sec. Fuse Clip
PL112812	Primary Fuse Cover with Puller
PL112814	Sec Fuse Cover - For Sec Fuse Clip

