

TECHNICAL GUIDE

Control power and machine tool transformers

Encapsulated core and coil



ABB's control power and machine tool transformers provide voltage to devices in applications where regulation and space optimization are important.

Table of contents

04	Control power and machine tool transformers overview
05	Machine tool applications
06	Control power applications
08	Options and fusing guide
09	Wiring diagrams
10	Outlines and dimensions
11	Open core and coil
12	Machine tool T and X series
13	Ordering table
14	Technical data
15	Accessories
16	Wiring diagrams
17	Weights and dimensions

Control power and machine tool transformers

01

Core and coil transformer terminal with fuse block

02 Core and coil transformer Terminal block

Product description

Core and coil transformers for machine tools are used to provide voltage to control devices in applications where regulation and minimum space are important. Welded cores provide the highest quality electrical performance and quiet operation. Control power transformers are an economical alternative to high inrush/machine tool transformers.

Advantages

- Finger-safe terminals offer added protection and safety
- Pressure plate terminals ensure secure connections
- Wide variety of fusing options
- Type IP transformers are seismically qualified

Key features

- Rugged, high-impact plastic terminal block
- Welded core for consistent performance in high vibration environments
- Full head #8 brass screws assure quick, easy terminations with maximum connection integrity
- Copper windings
- Flexible design allows input or output voltage to match any application
- CUL, UL approvals
- CE rated on selected models
- Available fuse-blocks offer simple, low-cost fusing

Standards

- Type IP transformers conform to NEMA ST20
- Type IP transformers are UL and cUL listed XPTQ. E323774 and XPTQ7.E323774; XPTQ:E2739 and XPTQ7:E2739

Listings

- UL listed under UL-5085, File E2739 and E323774

Insulation classes

- 150VA and below: 105°C insulation class, 55°C Rise
- 200VA and above: 185°C (NEMA) 180°C
- (UL) insulation class, 115°C Rise

Voltage regulation

All designs 2.0 kVA and below are compensated for voltage drop. Compensation ranges from 10% in the smallest rating to 3% for the largest.

Series-multiple secondary connections

Transformers with 120/240 V secondaries (series-multiple) may be connected for 120 V, 240 V or 240/120 V three-wire. Jumpers are provided.

Overcurrent protection

Type IP transformers are low impedance transformers that require overcurrent protection for most applications. Provisions for optional integral primary and/or secondary fusing are standard.

Mounting dimensions

Type IP transformers are lightweight, small, and designed for minimum mounting dimensions. Many units will fit competitors mounting footprints.



01



02

Machine tool applications

Single-phase, fully-encapsulated design

60 Hz Terminal block

Input voltage	Output voltage	kVA	Wiring diagram no. ¹	Approx. net weight (lbs.)	Frame size	Ordering code
220x440, 230x460, 240x480 Volts	110, 115, 120 Volts	0.05	1	2.4	6100	9T58K0042
		0.08	1	2.8	6125	9T58K0043
		0.10	1	3.6	8100	9T58K0044
		0.15	1	5.1	8150	9T58K0045
		0.20	1	5.8	8175	9T58K0046
		0.25	1	6.5	8200	9T58K0047
		0.30	1	7.6	8250	9T58K0048
		0.38	1	7.6	8250	9T58K0049
		0.50	1	10.7	10225	9T58K0050
		0.75	1	12	12225	9T58K0051
		1	1	16.1	12300	9T58K0052
		2	1	26.7	14225	9T58K0053
		2	1	32.7	14300	9T58K0054
		3	1	47.4	14475	9T58K0055

50/60 Hz Terminal block

Input voltage	Output voltage	kVA	Wiring diagram no. ¹	Approx. net weight (lbs.)	Frame size	Ordering code
230/460/575 Volts	115/95 Volts	0.05	2	3.1	6150	9T58K0062
		0.08	2	3.6	8100	9T58K0063
		0.10	2	5.1	8150	9T58K0064
		0.15	2	6.5	8200	9T58K0065
		0.20	2	6.5	8200	9T58K0066
		0.25	2	7.6	8250	9T58K0067
		0.30	2	10.7	10225	9T58K0068
		0.38	2	10.7	10225	9T58K0069
		0.50	2	10.7	10225	9T58K0070
		0.75	2	16.1	12300	9T58K0071
		1	2	26.7	14225	9T58K0072
		1.5	2	32.7	14300	9T58K0073
		2	2	47.4	14475	9T58K0074
208/277/380 Volts	115/95 Volts	0.05	3	3.1	6150	9T58K0082
		0.08	3	3.6	8100	9T58K0083
		0.10	3	5.1	8150	9T58K0084
		0.15	3	6.5	8200	9T58K0085
		0.20	3	6.5	8200	9T58K0086
		0.25	3	7.6	8250	9T58K0087
		0.30	3	10.7	10225	9T58K0088
		0.38	3	10.7	10225	9T58K0089
		0.50	3	10.7	10225	9T58K0090
		0.75	3	16.1	12300	9T58K0091
		1	3	26.7	14225	9T58K0092
		1.5	3	32.7	14300	9T58K0093
		2	3	47.4	14475	9T58K0094

¹See page 10B-9 for wiring diagrams.

50/60 Hz Terminal block connection

Input voltage	Output voltage	kVA	Wiring diagram no. ¹	Approx. net weight (lbs.)	Frame size	Ordering code
230/400/460/575 Volts	115/95/125 Volts	0.25	9	12	10225	9T58K3715
		0.35	9	12	10225	9T58K3716
		0.5	9	16	12225	9T58K3717
		0.75	9	19	12300	9T58K3718
		1	9	28	14225	9T58K3719
		1.5	9	34	14300	9T58K3720
		2	9	34	14475	9T58K3721

- **Factory- or field-installed options**
- **Secondary fusing**—Factory- or field-installed secondary fuse clips are available. They are restricted to units with terminal strips and a single secondary voltage or secondary with one tap.
- **Dual primary and secondary fusing**—Factory- or field-installed dual primary and secondary fuse clips are available on all units.

Control power applications

Single-phase, fully-encapsulated design

60 Hz Terminal block

Input voltage	Output voltage	kVA	Wiring diagram no. ¹	Approx. net weight (lbs.)	Frame size	Ordering code
240x480 Volts	120/240 Volts	0.05	4	2.4	6100	9T58K2802
		0.08	4	2.8	6125	9T58K2803
		0.10	4	3.6	8100	9T58K2804
		0.15	4	5.1	8150	9T58K2805
		0.20	4	5.8	8175	9T58K2806
		0.25	4	6.5	8200	9T58K2807
		0.30	4	6.5	8200	9T58K2808
		0.38	4	7.6	8250	9T58K2809
		0.50	4	10.7	10225	9T58K2810
		0.75	4	12	12225	9T58K2811
		1	4	16.1	12300	9T58K2812
		1.5	4	26.7	14225	9T58K2813
		2	4	32.7	14300	9T58K2814
		3	4	47.4	14475	9T58K2815
600 Volts	120/240 Volts	0.08	5	2.8	6125	9T58K2823
		0.10	5	3.6	8100	9T58K2824
		0.20	5	5.8	8175	9T58K2826
		0.25	5	6.5	8200	9T58K2827
		0.30	5	6.5	8200	9T58K2828
		0.50	5	10.7	10225	9T58K2830
		0.75	5	12	12225	9T58K2831
		1	5	16.1	12300	9T58K2832
		1.5	5	26.7	14225	9T58K2833
		2	5	32.7	14300	9T58K2834
		3	5	47.4	14475	9T58K2835
120x240 Volts	120/240 Volts	0.10	6	3.6	8100	9T58K2907
		0.20	6	5.8	8175	9T58K2909
		0.30	6	6.5	8200	9T58K2911
		0.50	6	10.7	10225	9T58K2913
		0.75	6	12	12225	9T58K2914
		1	6	16.1	12300	9T58K2915
		2	6	32.7	14300	9T58K2917
		3	6	47.4	14475	9T58K2918

60 Hz Terminal block

Input voltage	Output voltage	kVA	Wiring diagram no. ¹	Approx. net weight (lbs.)	Frame size	Ordering code
120 x 240 Volts	12/24 Volts	0.05	7	2.4	6100	9T58K2873
		0.075	7	2.8	6125	9T58K2874
		0.10	7	3.6	8100	9T58K2875
		0.15	7	5.1	8150	9T58K2876
		0.20	7	5.8	8175	9T58K2877
		0.25	7	6.5	8200	9T58K2878
		0.30	7	6.5	8200	9T58K2879
240 x 480 Volts	12/24 Volts	0.25	-	6.5	8200	9T58K3024
		0.05	-	2.4	6100	9T58K3164
		0.10	-	3.6	8100	9T58K4132
208 x 240 Volts	12/24 Volts	0.05	-	2.4	6100	9T58K4050
		0.10	-	3.6	8100	9T58K4051
		0.15	-	5.1	8150	9T58K4052
		0.25	-	6.5	8200	9T58K4053

50/60 Hz Terminal block

Input voltage	Output voltage	kVA	Wiring diagram no. ¹	Approx. net weight (lbs.)	Frame size	Ordering code
240 x 480 Volts	120/240 Volts	0.50	4	10.7	10225	9T58K2930
		0.75	4	16.1	12300	9T58K2931
		1	4	26.7	14225	9T58K2932
		1.5	4	32.7	14300	9T58K2933
		2	4	47.4	14475	9T58K2934
		3	4	47.4	14475	9T58K2935
380/400/416 Volts	115/230 Volts	0.25	8	6.5	8200	9T58K2975
		0.50	8	10.7	10225	9T58K2978
		0.75	8	16.1	12300	9T58K2979
		1	8	26.7	14225	9T58K2980
		1.5	8	32.7	14300	9T58K2981
		2	8	47.4	14475	9T58K2982
		3	8	47.4	14475	9T58K2983

¹ See page 10B-9 for wiring diagrams.

² Secondary fusing not available.

Control power applications

Single-phase, fully-encapsulated design

60 Hz Leads Out Connection²

Input voltage	Output voltage	kVA	Wiring diagram no. ¹	Approx. net weight (lbs.)	Frame size	Ordering code
120x240 Volts	12/24 Volts	0.05	7	2.4	6100	9T58K1873
		0.075	7	2.8	6125	9T58K1874
		0.10	7	3.6	8100	9T58K1875
		0.15	7	5.1	8150	9T58K1876
		0.20	7	5.8	8175	9T58K1877
		0.25	7	6.5	8200	9T58K1878
		0.30	7	6.5	8200	9T58K1879
		0.50	7	10.7	10225	9T58K1881
		0.75	7	12	12225	9T58K1882
		1	7	26.7	14225	9T58K1883

60 Hz Leads Out Connection²

Input voltage	Output voltage	kVA	Wiring diagram no. ¹	Approx. net weight (lbs.)	Frame size	Ordering code
240 x 480 Volts	120/240 Volts	0.05	4	2.4	6100	9T58K1802
		0.075	4	2.8	6125	9T58K1803
		0.10	4	3.6	8100	9T58K1804
		0.15	4	5.1	8150	9T58K1805
		0.20	4	5.8	8175	9T58K1806
		0.25	4	6.5	8200	9T58K1807
		0.30	4	6.5	8200	9T58K1808
		0.375	4	7.6	8250	9T58K1809
		0.50	4	10.7	10225	9T58K1810
		0.75	4	12	12225	9T58K1811
		1	4	16.1	12300	9T58K1812
		1.5	4	26.7	14225	9T58K1813
		2	4	32.7	14300	9T58K1814
		3	4	47.4	14475	9T58K1815
600 Volts	120/240 Volts	0.10	5	3.6	8100	9T58K1824
		0.20	5	5.8	8175	9T58K1826
		0.30	5	6.5	8200	9T58K1828
		0.50	5	10.7	10225	9T58K1830
		1	5	26.7	14225	9T58K1832
		2	5	32.7	14300	9T58K1834
		3	5	47.4	14475	9T58K1835

50/60 Hz Leads Out Connection²

Input voltage	Output voltage	kVA	Wiring diagram no. ¹	Approx. net weight (lbs.)	Frame size	Ordering code
240 x 480 Volts	120/240 Volts	0.30	4	7.6	8250	9T58K1928
		0.50	4	10.7	10225	9T58K1930
		3	4	47.4	14475	9T58K1935
380/400/416 Volts	115/230 Volts	0.50	8	10.7	10225	9T58K1978
		0.75	8	16.1	12300	9T58K1979
		1	8	26.7	14225	9T58K1980
		1.5	8	32.7	14300	9T58K1981

¹ See page 10B-9 for wiring diagrams.

² Secondary fusing not available.

Options and fusing guide

Transformer fusing options

Accessory description	Ordering code
(1) Quarter-inch fuseholder	9T58K0000G24
(1) Midget fuseholder	9T58K0000G42
(1) H/K fuseholder	9T58K0000G10
(2) CC fuseholder	9T58K0000G43
(2) H/K fuseholder	9T58K0000G05
(2) CC + (1) Quarter-inch fuseholder	9T58K0000G48
(2) CC + (1) Midget fuseholder	9T58K0000G38
(2) CC + (1) H/K fuseholder	9T58K0000G18
(2) Fuse clips	9T58K0000G09
Jumper links	9T58K0000G01



Fuse guide

Midget class CC rejection fuse

Primary voltage	Transformer continuous power rating (VA)								
	50	75	100	150	200	250	300	375	500
	Fuse rating (amperes)								
100	1.50	2.00	3.00	4.00	3.00	4.00	5.00	6.00	8.00
110	1.25	2.00	2.50	4.00	5.00	3.00	4.00	5.00	7.00
120	1.25	1.60	2.50	3.00	5.00	3.00	4.00	5.00	6.00
200	0.75	1.00	1.50	2.00	3.00	3.00	4.00	5.00	4.00
208	0.60	1.00	1.25	2.00	2.50	3.00	4.00	5.00	4.00
220	0.60	1.00	1.25	2.00	2.50	3.00	4.00	5.00	3.00
230	0.60	0.80	1.25	1.60	2.50	3.00	3.00	4.00	3.00
240	0.60	0.80	1.25	1.60	2.50	3.00	3.00	4.00	3.00
277	0.50	0.80	1.00	1.60	2.00	2.50	3.00	4.00	5.00
380	0.30	0.50	0.75	1.00	1.50	1.60	2.00	2.50	3.00
400	0.30	0.50	0.75	1.00	1.50	1.60	2.00	2.50	3.00
416	0.30	0.50	0.60	1.00	1.25	1.60	2.00	2.50	3.00
440	0.30	0.50	0.60	1.00	1.25	1.60	2.00	2.50	3.00
460	0.30	0.40	0.60	0.80	1.25	1.60	1.60	2.00	3.00
480	0.30	0.40	0.60	0.80	1.25	1.50	1.60	2.00	3.00
550	0.25	0.40	0.50	0.80	1.00	1.25	1.60	2.00	2.50
575	0.25	0.30	0.50	0.75	1.00	1.25	1.50	1.60	2.50
600	0.25	0.30	0.50	0.75	1.00	1.25	1.50	1.60	2.50

For motor control circuits fusing, refer to NEC 430-72.

Secondary fuse selection

Glass fuse

Secondary voltage	Transformer continuous power rating (VA)													
	50	75	100	150	200	250	300	375	500	750	1000	1500	2000	3000
	Fuse rating (amperes)													
12	6.00	10.00	12.00	15.00	20.00	25.00	30.00	-	-	-	-	-	-	-
24	3.00	5.00	6.00	10.00	12.00	12.00	15.00	-	25.00	-	-	-	-	-
36	2.00	3.00	4.00	6.00	8.00	10.00	12.00	-	15.00	-	-	-	-	-
48	1.50	2.50	3.00	5.00	6.00	8.00	10.00	12.00	12.00	-	-	-	-	-
95	0.80	1.25	1.60	2.50	3.00	4.00	5.00	6.00	8.00	12.00	15.00	20.00	25.00	-
110	0.75	1.00	1.50	2.00	3.00	3.00	4.00	5.00	7.00	10.00	12.00	20.00	25.00	30.00
115	0.60	1.00	1.25	2.00	2.50	3.00	4.00	5.00	7.00	10.00	12.00	20.00	20.00	30.00
120	0.60	1.00	1.25	2.00	2.50	3.00	4.00	5.00	6.00	10.00	12.00	15.00	20.00	30.00
208	0.40	0.60	0.80	1.00	1.60	2.00	2.00	3.00	4.00	6.00	8.00	12.00	15.00	20.00
220	0.30	0.50	0.75	1.00	1.50	1.60	2.00	2.50	3.00	5.00	7.00	10.00	12.00	20.00
230	0.30	0.50	0.60	1.00	1.25	1.60	2.00	2.50	3.00	5.00	7.00	10.00	12.00	20.00
240	0.30	0.50	0.60	1.00	1.25	1.60	2.00	2.50	3.00	5.00	6.00	10.00	12.00	15.00

Control power and machine tool

Wiring diagrams

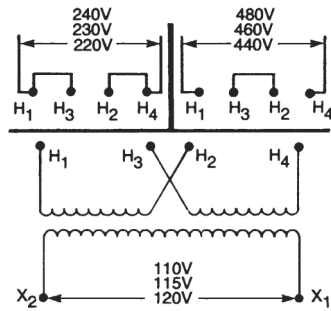


Diagram 1

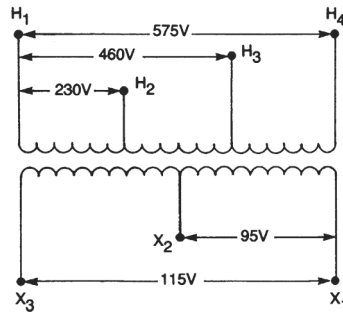


Diagram 2

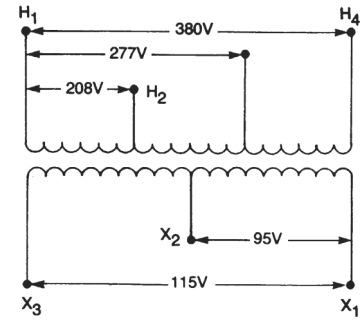


Diagram 3

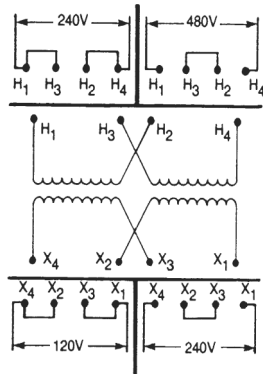


Diagram 4

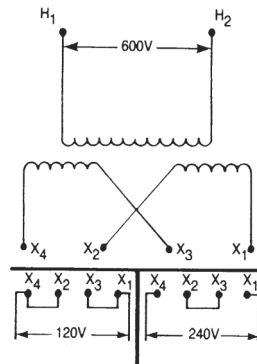


Diagram 5

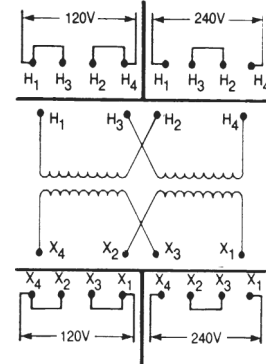


Diagram 6

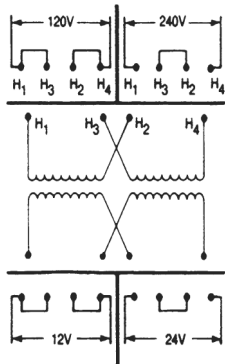


Diagram 7

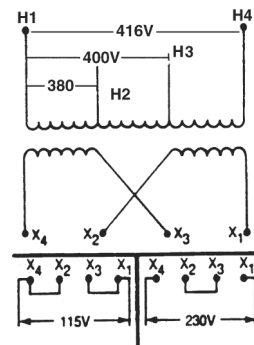


Diagram 8

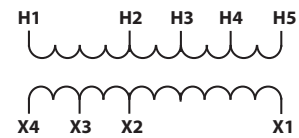


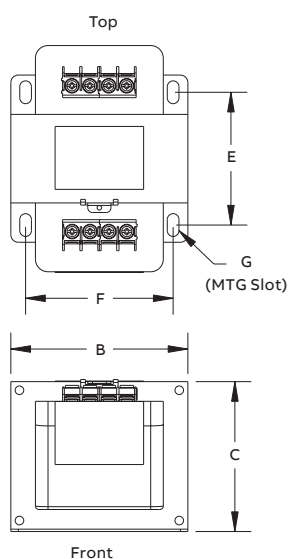
Diagram 9

Outlines and dimensions

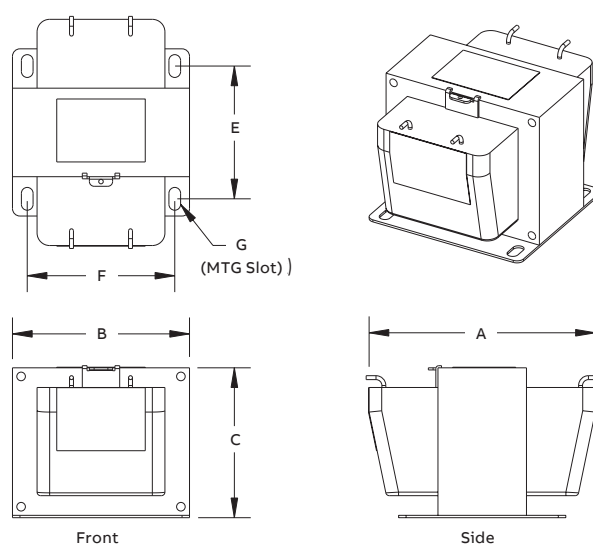
6, 8, 10, 12 And 14 frames

Terminal block and leads out connection style

Frame size	Style	Outline drawing	Net weight (lbs.)	A depth (in.)	B width (in.)	C height (in.)	E mounting depth (in.)	F mounting width (in.)	Mounting slot in (in.)
6100	AA	303B947	2.6	4	3.06	2.68	2.16	2.5	0.219x0.750
	AB			3.25					
6125	AA	303B947	3	4.25	3.06	2.68	2.41	2.5	0.219x0.750
	AB			3.5					
6150	AA	303B947	3.4	4.5	3.06	2.68	2.66	2.5	0.219x0.750
	AB			3.75					
8100	AA	303B947	3.9	4.12	3.81	3.28	2.16	3.12	0.219x0.750
	AB			3.42					
8150	AA	303B947	5.5	4.62	3.81	3.28	2.66	3.12	0.219x0.750
	AB			3.92					
8175	AA	303B947	6.3	4.88	3.81	3.28	2.91	3.12	0.219x0.750
	AB			4.18					
8200	AA	303B947	7	5.12	3.81	3.28	3.16	3.12	0.219x0.750
	AB			4.42					
8250	AA	303B947	8.3	5.62	3.81	3.28	3.66	3.12	0.219x0.750
	AB			4.92					
10225	AA/AB	303B947	11.6	5.62	4.56	3.9	3.38	3.75	0.297x0.580
12225	AA/AB	303B947	13	5.88	5.31	4.56	3.38	4	0.297x0.580
12300	AA/AB	303B947	17.5	6.62	5.31	4.56	4.13	4	0.297x0.580
14225	AA/AB	303B947	29	6.5	6.81	5.81	3.38	5.5	0.297x0.580
14300	AA/AB	303B947	35.5	7.25	6.81	5.78	4.13	5.5	0.297x0.580
14475	AA/AB	303B947	51.5	9	6.81	5.81	5.88	5.5	0.297x0.580



Style AA (Terminal blocks)



Style AB (Leads out)

Open core and coil transformers

CE-rated

Application

This product is designed to be incorporated into equipment manufactured for sale in the European Community. This product is in conformity with the European Standard: EN 60 742, 1995 per the provisions of the Low Voltage (LV) Directive 73/23/EEC in 1973 as amended by 93/68/EEC in 1995.

The Type “IP” CE offering utilizes all copper windings, which are encapsulated in a hardened epoxy, making the winding impervious to the elements. These designs are rated at 55° C rise with a 40° C ambient. Standard on these designs are terminal block covers. These provide added protection from current carrying terminals. These designs incorporate customer friendly connection on rugged high-impact molded terminal blocks.

Factory- or field-installed options

Available as an option are two fuse blocks that have fuse covers that provide the touch safety like the terminal blocks. These can be ordered factory-installed or as kits.

Besides being CE rated, these designs are both UL and C-UL listed.

50/60 Hz

Input voltage	Output voltage	kVA	Approx. net weight (lbs.)	Frame size	Ordering code
230/400 Volts	12/24 Volts	0.025	3	6100	9T58E0020
		0.05	4	6150	9T58E0021
		0.075	4	8100	9T58E0023
		0.1	5	8150	9T58E0024
		0.15	7	8200	9T58E0025
		0.2	12	10225	9T58E0026
		0.25	12	10225	9T58E0027
		0.3	12	10225	9T58E0028
	24/48 Volts	0.375	16	12225	9T58E0029
		0.05	4	6150	9T58E0061
		0.075	4	8100	9T58E0063
		0.1	5	8150	9T58E0064
		0.15	7	8200	9T58E0065
		0.2	12	10225	9T58E0066
		0.5	19	12300	9T58E0071
		0.75	28	14225	9T58E0073
220/380, 230/400, 240/415 Volts	110/220, 115/230, 120/240 Volts	0.025	3	6100	9T58E0150
		0.05	4	6150	9T58E0151
		0.075	4	8100	9T58E0153
		0.1	5	8150	9T58E0154
		0.15	7	8200	9T58E0155
		0.2	12	10225	9T58E0156
		0.25	12	10225	9T58E0157
		0.3	12	10225	9T58E0158
		0.375	16	12225	9T58E0159
		0.5	19	12300	9T58E0161
		0.75	28	14225	9T58E0163
		1	34	14300	9T58E0164
		1.5	45	14475	9T58E0165
200/400/480 Volts	120 Volts	0.25	12	10225	9T58E0506
400/480 Volts	120/200 Volts	1.5	45	14475	9T58E0507
380/400/415/480/528 Volts	24/48 Volts	0.3	12	10225	9T58E2000
		0.5	6	8175	9T58E2001
200/208/220/230/240 Volts	24/48 Volts	0.3	12	10225	9T58E2002

Machine tool T and X series

—
01
X4045SF1

—
02
T4150PSF1

—
03
T6050PS1

Product description

ABB's T and X series of machine tool transformers provide a means of stepping down voltages for machine tool control devices and industrial control panels. Our machine tool units are designed and built to provide voltage to the load while accommodating the high current levels present at inrush.

These transformers deliver excellent secondary voltage regulation and meet or exceed the standards established by NEMA, ANSI, UL and CSA. Their robust construction and excellent electrical characteristics assure reliable operation of electromagnetic devices and trouble-free performance.

Benefits and features

- Epoxy encapsulated coils up through 750 VA
- Epoxy resin impregnated coils 1000 VA to 5000 VA
- Laminations of high-quality silicon steel
- Copper magnet wire providing the highest quality and efficient operation
- Molded-in terminals
- 50/60 Hz
- IP 20 Touch safe covers available as accessories

Standards

- UL E2739
- Selected units are either cUL or CSA
- Selected units are CE rated



—
01



—
02



—
03

Ordering table

50/60 Hz, RoHS and REACH compliant

Primary voltage(s)	Secondary voltage(s)	VA	Wiring diagram	Approx. net weight (lb)	Ordering code	ABB product ID
575	24	45	D	2.6	T6045SF	1TQY200060X0004
	115	45	C	2.4	T6045S1	1TQY200060X0005
		50	C	2.4	T6050PS1	1TQY200060X0007
		75	C	3.5	T6075PS1	1TQY200060X0009
		100	C	4.2	T6100PS1	1TQY200060X0013
		150	C	5.9	T6150PS1	1TQY200060X0016
		200	C	7.5	T6200PS1	1TQY200060X0019
		250	C	9.5	T6250PS1	1TQY200060X0021
		300	C	13.1	T6300PS1	1TQY200060X0024
		350	C	9.3	T6350PS1	1TQY200060X0027
		500	C	16.7	T6500PS1	1TQY200060X0031
		750	C	28.9	T6750PS1	1TQY200060X0033
	115/24	100	H	5.5	T6100PSF1	1TQY200060X0012
		500	H	14.1	T6500PSF1/C	1TQY200060X0030
460/230/208, 480/240, 440/220/200	115/24	45	A	3.5	T4045SF1	1TQY200060X0078
		50	A	3.5	T4050PSF1	1TQY200060X0077
		75	A	4.2	T4075PSF1	1TQY200060X0071
		100	A	6.7	T4100PSF1	1TQY200060X0067
		150	A	5.9	T4150PSF1	1TQY200060X0070
		250	A	9.3	T4250PSF1	1TQY200060X0068
		300	A	14.1	T4300PSF1	1TQY200060X0072
		300	A	14.1	TC4300F1	1TQY200060X0069
	115-95	1000	G	37	T61K1	1TQY200060X0010
		2000	G	51.6	T62K1	1TQY200060X0018
		3000	G	77.1	T63K1	1TQY200060X0023
		5000	G	136.3	T65K1	1TQY200060X0029
120/240	24	100	E	5.5	TC2100F	1TQY200060X0076
		200	E	8.9	TC2200F	1TQY200060X0074
415/400/380	110/220	100	F	5.5	TC3100P21	1TQY200060X0075
		500	F	14.9	TC350021	1TQY200060X0073
460/230/208, 480/240, 440/220/200	115	750	B	28.9	X4750PS1	1TQY200060X0064
		1000	B	37	X41K1	1TQY200060X0041
		1500	B	40.7	X41.5K1	1TQY200060X0040
		2000	B	51.6	X42K1	1TQY200060X0048
		3000	B	77.1	X43K1	1TQY200060X0055
		5000	B	114.6	X45K1	1TQY200060X0060
	115/24	45	A	3.5	X4045SF1	1TQY200060X0034
		50	A	3.5	X4050PSF1	1TQY200060X0035
		75	A	4.2	X4075PSF1	1TQY200060X0038
		100	A	6.7	X4100PSF1	1TQY200060X0042
		150	A	7.9	X4150PSF1	1TQY200060X0045
		200	A	9.5	X4200PSF1	1TQY200060X0049
		250	A	11.3	X4250PSF1	1TQY200060X0052
		300	A	14.1	X4300PSF1	1TQY200060X0056
	115/24	350	A	14.1	X4350PSF1	1TQY200060X0058
		500	A	23.1	X4500PSF1	1TQY200060X0061



T6050PS1



T4100PSF1



T4150PSF1



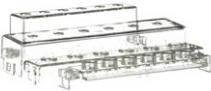
X4045SF1

Technical data

Technical data

Ordering code	ABB product ID	Temp rise °C	Insulation system	Primary fuse holder	Secondary fuse clip	Primary fuse & quantity	Secondary fuse & quantity	Covers	UL	CSA	CUL	CE mark (IEC)
T6045SF	1TQY200060X0004	55	105	–	Yes	–	1	–	Yes	Yes	–	–
T6045S1	1TQY200060X0005	55	130	–	Yes	2	1	–	Yes	Yes	–	–
T6050PS1	1TQY200060X0007	55	105	Yes	Yes	2	1	–	Yes	–	Yes	–
T6075PS1	1TQY200060X0009	55	105	Yes	Yes	2	1	–	Yes	Yes	–	–
T6100PS1	1TQY200060X0013	55	105	Yes	Yes	2	1	–	Yes	Yes	–	–
T6150PS1	1TQY200060X0016	55	105	Yes	Yes	2	1	–	Yes	Yes	–	–
T6200PS1	1TQY200060X0019	55	105	Yes	Yes	2	1	–	Yes	Yes	–	–
T6250PS1	1TQY200060X0021	55	105	Yes	Yes	2	1	–	Yes	Yes	–	–
T6300PS1	1TQY200060X0024	55	105	Yes	Yes	2	1	–	Yes	Yes	–	–
T6350PS1	1TQY200060X0027	55	105	Yes	Yes	2	1	–	Yes	Yes	–	–
T6500PS1	1TQY200060X0031	80	130	Yes	Yes	2	1	–	Yes	–	Yes	–
T6750PS1	1TQY200060X0033	55	105	Yes	Yes	2	1	–	Yes	Yes	–	–
T6100PSF1	1TQY200060X0012	55	105	Yes	Yes	2	1	–	Yes	Yes	–	–
T6500PSF1/C	1TQY200060X0030	80	130	Yes	Yes	2	1	Yes	Yes	–	Yes	–
T4045SF1	1TQY200060X0078	55	105	–	Yes	–	1	–	Yes	Yes	–	–
T4050PSF1	1TQY200060X0077	55	105	Yes	Yes	2	1	–	Yes	Yes	–	–
T4075PSF1	1TQY200060X0071	55	105	Yes	Yes	2	1	–	Yes	Yes	–	–
T4100PSF1	1TQY200060X0067	55	105	Yes	Yes	2	1	–	Yes	Yes	–	–
T4150PSF1	1TQY200060X0070	55	105	Yes	Yes	2	1	–	Yes	Yes	–	–
T4250PSF1	1TQY200060X0068	55	105	Yes	Yes	2	1	–	Yes	Yes	–	–
T4300PSF1	1TQY200060X0072	55	105	Yes	Yes	2	1	–	Yes	Yes	–	–
T61K1	1TQY200060X0010	120	180	–	–	–	–	–	Yes	Yes	–	–
T62K1	1TQY200060X0018	120	180	–	–	–	–	–	Yes	Yes	–	–
T63K1	1TQY200060X0023	120	180	–	–	–	–	–	Yes	Yes	–	–
T65K1	1TQY200060X0029	120	180	–	–	–	–	–	Yes	Yes	–	–
TC2100F	1TQY200060X0076	55	105	–	–	–	–	Yes	Yes	Yes	–	Yes
TC2200F	1TQY200060X0074	80	130	–	–	–	–	Yes	Yes	–	Yes	Yes
TC3100P21	1TQY200060X0075	55	105	Yes	–	2	–	Yes	Yes	Yes	–	Yes
TC350021	1TQY200060X0073	80	130	–	–	–	–	Yes	Yes	Yes	–	Yes
TC4300F1	1TQY200060X0069	80	130	–	–	–	–	Yes	Yes	–	Yes	Yes
X41.5K1	1TQY200060X0040	120	180	–	–	–	–	–	Yes	Yes	–	–
X41K1	1TQY200060X0041	80	130	–	Yes	–	1	–	Yes	Yes	–	–
X42K1	1TQY200060X0048	120	180	–	Yes	–	1	–	Yes	Yes	–	–
X43K1	1TQY200060X0055	120	180	–	–	–	–	–	Yes	Yes	–	–
X45K1	1TQY200060X0060	120	180	–	–	–	–	–	Yes	Yes	–	–
X4750PS1	1TQY200060X0064	80	130	Yes	Yes	2	1	–	Yes	–	Yes	–
X4045SF1	1TQY200060X0034	55	105	–	Yes	–	1	–	Yes	–	Yes	–
X4050PSF1	1TQY200060X0035	80	130	Yes	Yes	2	1	–	Yes	–	Yes	–
X4075PSF1	1TQY200060X0038	55	105	Yes	Yes	2	1	–	Yes	–	Yes	–
X4100PSF1	1TQY200060X0042	55	105	Yes	Yes	2	1	–	Yes	–	Yes	–
X4150PSF1	1TQY200060X0045	80	130	Yes	Yes	2	1	–	Yes	–	Yes	–
X4200PSF1	1TQY200060X0049	80	130	Yes	Yes	2	1	–	Yes	–	Yes	–
X4250PSF1	1TQY200060X0052	80	130	Yes	Yes	2	1	–	Yes	–	Yes	–
X4300PSF1	1TQY200060X0056	80	130	Yes	Yes	2	1	–	Yes	–	Yes	–
X4350PSF1	1TQY200060X0058	80	130	Yes	Yes	2	1	–	Yes	–	Yes	–
X4500PSF1	1TQY200060X0061	80	130	Yes	Yes	2	1	–	Yes	–	Yes	–

Accessories



TPTC-2002

Description	UL	Approx. product net weight (lbs.)	Ordering code	ABB product ID
Primary Fuse Kit, Class CC, 2pole	Yes	0.2	FKTP-1001	1TQY000000P0010
IP20,4-position,clear,terminal covers	Yes	0.5	TPTC-1001	1TQY000000P0011
IP20,6-position,clear,terminal covers	Yes	0.5	TPTC-2002	1TQY000000P0012
IP20 Primary Class CC Fuse Cover,2pole	Yes	0.5	TPTC-2006	1TQY000000P0013

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Wiring diagrams

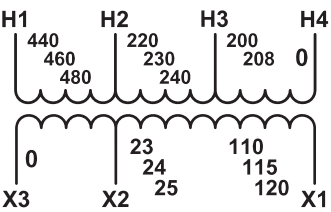


Diagram A

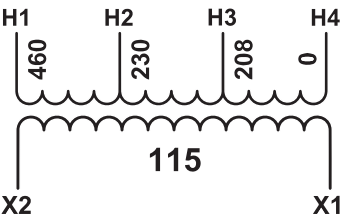


Diagram B

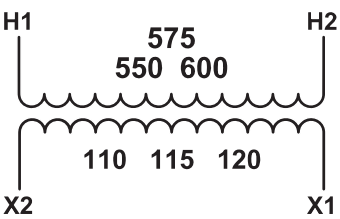


Diagram C

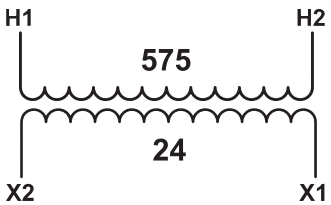


Diagram D

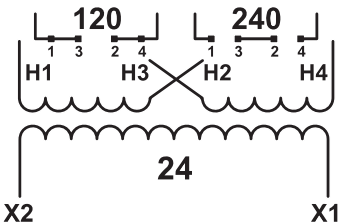


Diagram E

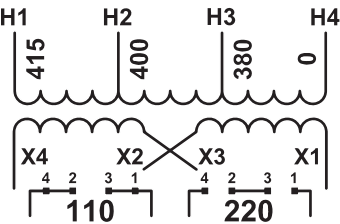


Diagram F

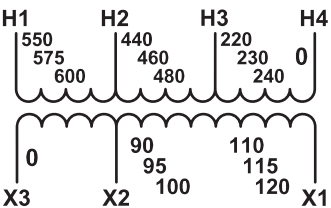


Diagram G

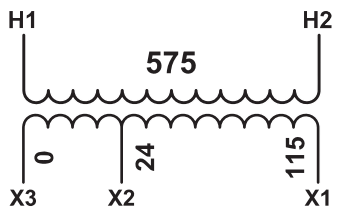
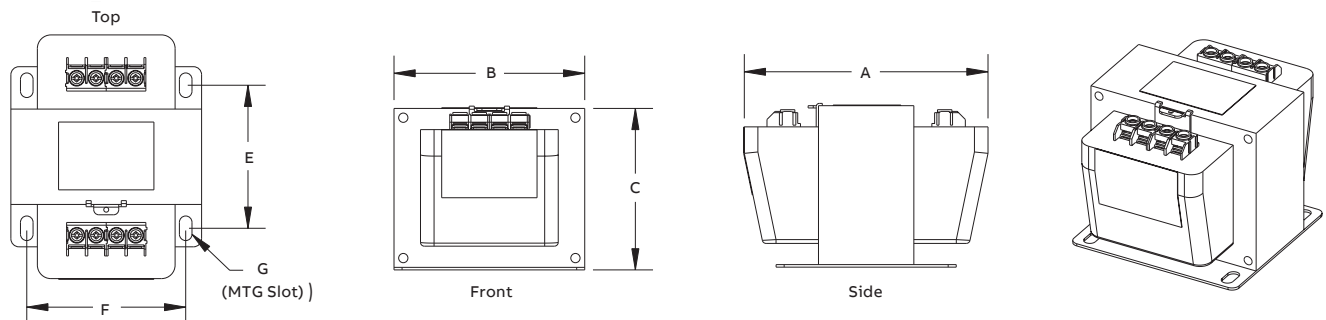


Diagram H

Weights and dimensions

ABB prod. ID	Ordering code	A depth (in)	B width (in)	C height (in)	Approx. product net weight (lb.)	Approx. package net length (in)	Approx. package net width (in)	Approx. package net height (in)	Approx. package net weight (lb)
1TQY200060X0078	T4045SF1	3.9	3	3.3	3.5	7.3	5.8	4.8	4.3
1TQY200060X0077	T4050PSF1	3.9	3	4.1	3.5	7.3	5.8	4.8	4.3
1TQY200060X0071	T4075PSF1	3.5	3.4	4.4	4.2	7.3	5.8	4.8	5
1TQY200060X0067	T4100PSF1	3.9	3.8	4.7	6.7	7.3	5.8	4.8	7.5
1TQY200060X0070	T4150PSF1	4.3	3.8	4.7	5.9	7.3	5.8	4.8	6.7
1TQY200060X0068	T4250PSF1	5.1	4.5	5.3	9.3	6.8	6.5	10.3	10.1
1TQY200060X0072	T4300PSF1	6.2	5.3	6	14.1	10.3	6.5	6.8	14.9
1TQY200060X0005	T6045S1	3.4	3	3.3	2.6	7.3	5.8	4.8	3.4
1TQY200060X0004	T6045SF	3.4	3	3.3	2.6	7.3	5.8	4.8	3.4
1TQY200060X0007	T6050PS1	3.4	3	4.1	2.4	7.3	5.8	4.8	3.4
1TQY200060X0009	T6075PS1	3.9	3	4.1	3.5	7.3	5.8	4.8	4.3
1TQY200060X0013	T6100PS1	3.5	3.4	4.4	4.2	7.3	5.8	4.8	5
1TQY200060X0012	T6100PSF1	3.6	3.8	4.7	5.5	7.3	5.8	4.8	6.3
1TQY200060X0016	T6150PS1	4.3	3.8	4.7	5.9	7.3	5.8	4.8	6.7
1TQY200060X0010	T61K1	7	6.4	5.5	37	10.8	10.5	10.5	37.8
1TQY200060X0019	T6200PS1	3.9	4.5	5.3	7.5	6.8	6.5	10.3	8.3
1TQY200060X0021	T6250PS1	4.2	4.5	5.3	9.5	6.8	6.5	10.3	10.3
1TQY200060X0018	T62K1	7.6	9	7.7	51.6	10.8	10.5	10.5	52.4
1TQY200060X0024	T6300PS1	5	4.5	5.3	13.1	10.3	6.5	6.8	13.9
1TQY200060X0027	T6350PS1	5.1	4.5	5.3	9.3	10.3	6.5	6.8	10.1
1TQY200060X0023	T63K1	8.7	9	7.7	77.1	15	14.5	14.5	77.9
1TQY200060X0031	T6500PS1	6.2	5.3	6	16.7	10.3	6.5	6.8	17.5
1TQY200060X0030	T6500PSF1/C	6.2	5.3	6	14.1	10.3	6.5	6.8	14.9
1TQY200060X0029	T65K1	11.3	9	10	136.3	15	14.5	14.5	137.1
1TQY200060X0033	T6750PS1	7	5.3	6	28.9	10.3	6.5	6.8	29.7
1TQY200060X0076	TC2100F	3.6	3.8	3.5	5.5	7.3	5.8	4.8	6.3
1TQY200060X0074	TC2200F	3.9	4.5	4	8.9	6.8	6.5	10.3	9.7
1TQY200060X0075	TC3100P21	3.6	3.8	5.2	5.5	7.3	5.8	4.8	6.3
1TQY200060X0073	TC350021	5.7	5.3	4.8	14.9	10.3	6.5	6.8	15.7
1TQY200060X0069	TC4300F1	6.2	5.3	5	14.1	10.3	6.5	6.8	14.9
1TQY200060X0034	X4045SF1	3.9	3	3.3	3.5	7.3	5.8	4.8	4.3
1TQY200060X0035	X4050PSF1	3.9	3	4.1	3.5	7.3	5.8	4.8	4.3
1TQY200060X0038	X4075PSF1	3.5	3.4	4.4	4.2	7.3	5.8	4.8	5
1TQY200060X0040	X41.5K1	7.4	6.8	5.8	40.7	15	14.5	14.5	41.5
1TQY200060X0042	X4100PSF1	3.9	3.8	4.7	6.7	7.3	5.8	4.8	7.5
1TQY200060X0045	X4150PSF1	4.3	3.8	4.7	7.9	7.3	5.8	4.8	8.2
1TQY200060X0041	X41K1	7.5	6.4	5.5	37	10.8	10.5	10.5	37.8
1TQY200060X0049	X4200PSF1	4.2	4.5	5.3	9.5	6.8	6.5	10.3	10.3
1TQY200060X0052	X4250PSF1	4.6	4.5	5.3	11.3	6.8	6.5	10.3	12.1
1TQY200060X0048	X42K1	8.2	6.8	6.3	51.6	10.8	10.5	10.5	52.4
1TQY200060X0056	X4300PSF1	6.2	5.3	6	14.1	10.3	6.5	6.8	14.9
1TQY200060X0058	X4350PSF1	6.2	5.3	6	14.1	10.3	6.5	6.8	14.9
1TQY200060X0055	X43K1	8.5	9	7.5	77.1	15	14.5	14.5	77.9
1TQY200060X0061	X4500PSF1	7.2	5.3	6	23.1	10.3	6.5	6.8	23.9
1TQY200060X0060	X45K1	10.4	9	10	114.6	15	14.5	14.5	115.4
1TQY200060X0064	X4750PS1	7	5.3	6	28.9	10.3	6.5	6.8	29.7





Notes

Lined area for notes, consisting of multiple horizontal lines.



Notes

Lined area for notes, consisting of multiple horizontal lines.



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