

Transformers

Open Core and Coil Transformers

Machine Tool and Control Power

0.05-3.0kVA, Single-Phase

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.

Standards: Type IP transformers conform to NEMA ST20

Listings: UL listed under UL-506, File E2739
CSA Certified under C22.2, Number 66, File 3272

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

Frequency: 60 Hz standard; 50 Hz optional.

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. All machine tool designs meet or exceed NMTBA regulation requirements.

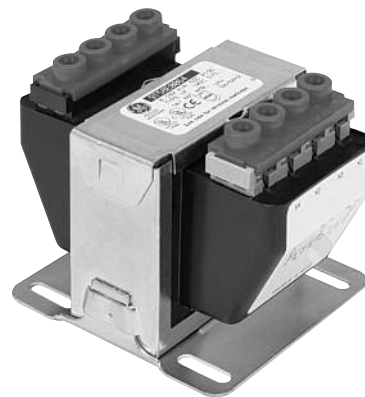
Series-Multiple Secondary Connections: Transformers with 120/240 V secondaries (series-multiple) may be connected for 120 V, 240 V or 240/120 V three-wire. Jumpers are provided.

Overcurrent Protection: Type IP transformers are low impedance transformers that require overcurrent protection for most applications. They provide for optional integral primary and/or secondary fusing.

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



Core and Coil Transformer, Optional Leads Out Connection



Core and Coil Transformer, Terminal Board Connection

Advantages—Terminal Board Connection

- Fully encapsulated coil is impervious to moisture
- Finger-safe terminals offer added protection and safety
- Pressure plate terminals ensure secure connections
- Terminal board is anchored in the epoxy for greater reliability
- Wide variety of fusing options

Key Features—Terminal Board Connection

- Rugged, high-impact plastic terminal board
- 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, CE, UL approvals
- Available fuse-clips offer simple, low-cost fusing with terminal block models



Transformers

Open Core and Coil Transformers

Control

Single-Phase

60 Hz Terminal Board Connection

Input Voltage	Output Voltage	kVA	Wiring Diagram No. ¹	Approx. Net Weight (Lbs)	Frame Size	Product Number
240 x 480 Volts	120/240 Volts	0.05	4	3	6100	9T58K2802
240 x 480 Volts	120/240 Volts	0.075	4	3	6125	9T58K2803
240 x 480 Volts	120/240 Volts	0.1	4	4	8100	9T58K2804
240 x 480 Volts	120/240 Volts	0.15	4	5	8150	9T58K2805
240 x 480 Volts	120/240 Volts	0.2	4	6	8175	9T58K2806
240 x 480 Volts	120/240 Volts	0.25	4	7	8200	9T58K2807
240 x 480 Volts	120/240 Volts	0.3	4	7	8200	9T58K2808
240 x 480 Volts	120/240 Volts	0.375	4	8	8250	9T58K2809
240 x 480 Volts	120/240 Volts	0.5	4	12	10225	9T58K2810
240 x 480 Volts	120/240 Volts	0.75	4	16	12225	9T58K2811
240 x 480 Volts	120/240 Volts	1	4	19	12300	9T58K2812
240 x 480 Volts	120/240 Volts	1.5	4	28	14225	9T58K2813
240 x 480 Volts	120/240 Volts	2	4	34	14300	9T58K2814
240 x 480 Volts	120/240 Volts	3	4	45	14475	9T58K2815
600 Volts	120/240 Volts	0.1	5	4	8100	9T58K2824
600 Volts	120/240 Volts	0.2	5	6	8175	9T58K2826
600 Volts	120/240 Volts	0.3	5	7	8200	9T58K2828
600 Volts	120/240 Volts	0.5	5	12	10225	9T58K2830
600 Volts	120/240 Volts	1	5	19	12300	9T58K2832
600 Volts	120/240 Volts	2	5	34	14300	9T58K2834
600 Volts	120/240 Volts	3	5	45	14475	9T58K2835
120 x 240 Volts	120/240 Volts	0.1	6	4	8100	9T58K2907
120 x 240 Volts	120/240 Volts	0.2	6	6	8175	9T58K2909
120 x 240 Volts	120/240 Volts	0.3	6	7	8200	9T58K2911
120 x 240 Volts	120/240 Volts	0.5	6	12	10225	9T58K2913
120 x 240 Volts	120/240 Volts	0.75	6	16	12225	9T58K2914
120 x 240 Volts	120/240 Volts	1	6	19	12300	9T58K2915
120 x 240 Volts	120/240 Volts	2	6	34	14300	9T58K2917
120 x 240 Volts	120/240 Volts	3	6	45	14475	9T58K2918

60 Hz Terminal Board Connection

Input Voltage	Output Voltage	kVA	Wiring Diagram No. ¹	Approx. Net Weight (Lbs)	Frame Size	Product Number
120 x 240 Volts	12/24 Volts	0.05	7	3	6100	9T58K2873
120 x 240 Volts	12/24 Volts	0.075	7	3	6125	9T58K2874
120 x 240 Volts	12/24 Volts	0.1	7	4	8100	9T58K2875
120 x 240 Volts	12/24 Volts	0.15	7	5	8150	9T58K2876
120 x 240 Volts	12/24 Volts	0.2	7	6	8175	9T58K2877
120 x 240 Volts	12/24 Volts	0.25	7	7	8200	9T58K2878
120 x 240 Volts	12/24 Volts	0.3	7	7	8200	9T58K2879
240 x 480 Volts	12/24 Volts	0.05	---	3	6100	9T58K3164
240 x 480 Volts	12/24 Volts	0.1	---	4	8100	9T58K4132
240 x 480 Volts	12/24 Volts	0.15	---	5	8150	9T58K4133
240 x 480 Volts	12/24 Volts	0.25	---	7	8200	9T58K3024
208 x 240 Volts	12/24 Volts	0.05	---	3	6100	9T58K4050
208 x 240 Volts	12/24 Volts	0.1	---	4	8100	9T58K4051
208 x 240 Volts	12/24 Volts	0.15	---	5	8150	9T58K4052
208 x 240 Volts	12/24 Volts	0.25	---	7	8200	9T58K4053

50/60 Hz Terminal Board Connection

Input Voltage	Output Voltage	kVA	Wiring Diagram No. ¹	Approx. Net Weight (Lbs)	Frame Size	Product Number
240 x 480 Volts	120/240 Volts	0.5	4	12	10225	9T58K2930
240 x 480 Volts	120/240 Volts	0.75	4	19	12300	9T58K2931
240 x 480 Volts	120/240 Volts	1	4	28	14225	9T58K2932
240 x 480 Volts	120/240 Volts	1.5	4	34	14300	9T58K2933
240 x 480 Volts	120/240 Volts	2	4	45	14475	9T58K2934
240 x 480 Volts	120/240 Volts	3	4	45	14475	9T58K2935
380/400/416 Volts	115/230 Volts	0.25	8	7	8200	9T58K2975
380/400/416 Volts	115/230 Volts	0.5	8	12	10225	9T58K2978
380/400/416 Volts	115/230 Volts	0.75	8	19	12300	9T58K2979
380/400/416 Volts	115/230 Volts	1	8	28	14225	9T58K2980
380/400/416 Volts	115/230 Volts	1.5	8	34	14300	9T58K2981
380/400/416 Volts	115/230 Volts	2	8	45	14475	9T58K2982
380/400/416 Volts	115/230 Volts	3	8	45	14475	9T58K2983

¹See page 8-68 for wiring diagrams.

²Secondary fusing not available.



Transformers

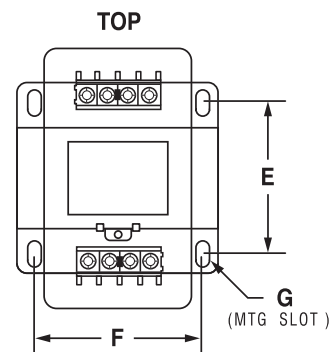
Open Core and Coil Transformers

Outlines and Dimensions

6, 8 and 10 Frame

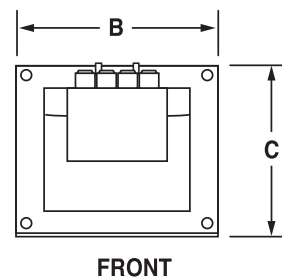
Terminal Board Connection Style

Frame Size	kVA	Approx. Net Weight (Lbs.)	A Depth (in.)	B Width (in.)	C Height (in.)	Mounting Depth E (in.)	Mounting Width F (in.)	Mounting Slot (in.)
6100	0.05	2.6	4	3.06	2.68	2.16	2.5	.219 x .750
6125	0.075	3	4.25	3.06	2.68	2.41	2.5	.219 x .750
8100	0.1	3.9	4.12	3.81	3.28	2.16	3.12	.219 x .750
8150	0.15	5.5	4.62	3.81	3.28	2.66	3.12	.219 x .750
8175	0.2	6.3	4.88	3.81	3.28	2.91	3.12	.219 x .750
8200	0.25	7	5.12	3.81	3.28	3.16	3.12	.219 x .750
8250	0.375	8.3	5.62	3.81	3.28	3.66	3.12	.219 x .750
10225	0.5	11.6	5.75	4.56	3.9	3.38	3.75	.297 x .580
12225	0.75	13	5.81	5.31	4.56	3.38	4	.297 x .580
12300	1	17.5	6.56	5.31	4.56	4.13	4	.297 x .580
14225	1.5	29	6.31	6.81	5.81	3.38	5.5	.297 x .580
14300	2	35.5	7.06	6.81	5.81	4.13	5.5	.297 x .580
14475	3	51.5	8.81	6.81	5.81	5.88	5.5	.297 x .580

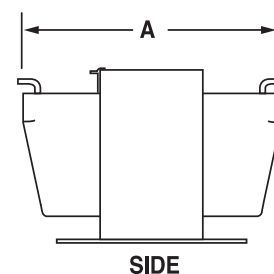
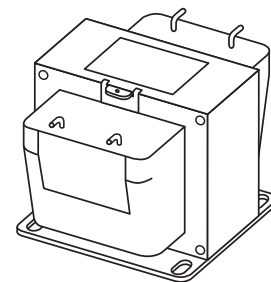


Leads Out Connection Style

Frame Size	kVA	Approx. Net Weight (Lbs.)	A Depth (in.)	B Width (in.)	C Height (in.)	Mounting Depth E (in.)	Mounting Width F (in.)	Mounting Slot (in.)
6100	0.05	2.6	3.25	3.06	2.68	2.16	2.5	.219 x .750
6125	0.075	3	3.5	3.06	2.68	2.41	2.5	.219 x .750
8100	0.1	3.9	3.42	3.81	3.28	2.16	3.12	.219 x .750
8150	0.15	5.5	3.92	3.81	3.28	2.66	3.12	.219 x .750
8175	0.2	6.3	4.18	3.81	3.28	2.91	3.12	.219 x .750
8200	0.25	7	4.42	3.81	3.28	3.16	3.12	.219 x .750
8200	0.3	7	4.42	3.81	3.28	3.16	3.12	.219 x .750
8250	0.375	8.3	4.92	3.81	3.28	3.66	3.12	.219 x .750
10225	0.5	11.6	5.75	4.56	3.9	3.38	3.75	.297 x .580
10225	0.75	13	5.81	5.31	4.56	3.38	4	.297 x .580
12300	1	17.5	6.56	5.31	4.56	4.13	4	.297 x .580
14225	1.5	29	6.31	6.81	5.81	3.38	5.5	.297 x .580
14300	2	35.5	7.06	6.81	5.81	4.13	5.5	.297 x .580
14475	3	51.5	8.81	6.81	5.81	5.88	5.5	.297 x .580



Terminal Board Connection Style



Leads Out Connection Style

