

Dry Type Transformers

Open Core and Coil Transformers

Machine Tool and Control Power

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-5085, 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.

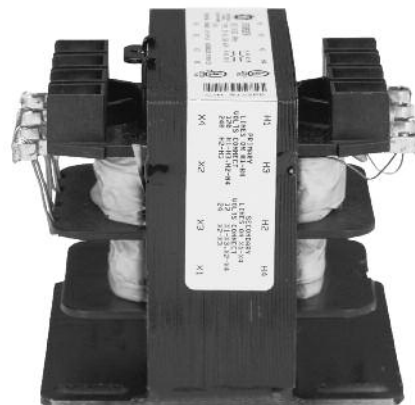
Series-Multiple Secondary Connections: Transformers with 120/240 V secondaries (series-multiple) may be connected for 120 V, 240 V or 240/120 V three-wire. Jumpers are provided.

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



Core and Coil Transformer

Advantages

- Finger-safe terminals offer added protection and safety
- Pressure plate terminals ensure secure connections
- 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-blocks offer simple, low-cost fusing



Dry Type Transformers

Open Core and Coil Transformers

Machine Tool Applications

Single-Phase, Non-encapsulated Design

Section 10

60 Hz Terminal Board Connection

Input Voltage	Output Voltage	kVA	Wiring Diagram No. ¹	Approx. Net Weight (Lbs)	Frame Size	Product Number
220x440, 230x460,240x480 Volts	110, 115, 120 Volts	0.05	1	2.4	6100	9T58R0042
220x440, 230x460,240x480 Volts	110, 115, 120 Volts	0.08	1	2.8	6125	9T58R0043
220x440, 230x460,240x480 Volts	110, 115, 120 Volts	0.10	1	3.6	8100	9T58R0044
220x440, 230x460,240x480 Volts	110, 115, 120 Volts	0.15	1	5.1	8150	9T58R0045
220x440, 230x460,240x480 Volts	110, 115, 120 Volts	0.20	1	5.8	8175	9T58R0046
220x440, 230x460,240x480 Volts	110, 115, 120 Volts	0.25	1	6.5	8200	9T58R0047
220x440, 230x460,240x480 Volts	110, 115, 120 Volts	0.30	1	7.6	8250	9T58R0048
220x440, 230x460,240x480 Volts	110, 115, 120 Volts	0.38	1	7.6	8250	9T58R0049
220x440, 230x460,240x480 Volts	110, 115, 120 Volts	0.50	1	10.7	10225	9T58R0050
220x440, 230x460,240x480 Volts	110, 115, 120 Volts	0.75	1	12	12225	9T58R0051
220x440, 230x460,240x480 Volts	110, 115, 120 Volts	1	1	16.1	12300	9T58R0052
220x440, 230x460,240x480 Volts	110, 115, 120 Volts	2	1	26.7	14225	9T58R0053
220x440, 230x460,240x480 Volts	110, 115, 120 Volts	2	1	32.7	14300	9T58R0054
220x440, 230x460,240x480 Volts	110, 115, 120 Volts	3	1	47.4	14475	9T58R0055

50/60 Hz Terminal Board Connection

Input Voltage	Output Voltage	kVA	Wiring Diagram No. ¹	Approx. Net Weight (Lbs)	Frame Size	Product Number
230/460/575 Volts	115/95 Volts	0.05	2	3.1	6150	9T58R0062
230/460/575 Volts	115/95 Volts	0.08	2	3.6	8100	9T58R0063
230/460/575 Volts	115/95 Volts	0.10	2	5.1	8150	9T58R0064
230/460/575 Volts	115/95 Volts	0.15	2	6.5	8200	9T58R0065
230/460/575 Volts	115/95 Volts	0.20	2	6.5	8200	9T58R0066
230/460/575 Volts	115/95 Volts	0.25	2	7.6	8250	9T58R0067
230/460/575 Volts	115/95 Volts	0.30	2	10.7	10225	9T58R0068
230/460/575 Volts	115/95 Volts	0.38	2	10.7	10225	9T58R0069
230/460/575 Volts	115/95 Volts	0.50	2	10.7	10225	9T58R0070
230/460/575 Volts	115/95 Volts	0.75	2	16.1	12300	9T58R0071
230/460/575 Volts	115/95 Volts	1	2	26.7	14225	9T58R0072
230/460/575 Volts	115/95 Volts	1.5	2	32.7	14300	9T58R0073
230/460/575 Volts	115/95 Volts	2	2	47.4	14475	9T58R0074
208/277/380 Volts	115/95 Volts	0.05	3	3.1	6150	9T58R0082
208/277/380 Volts	115/95 Volts	0.08	3	3.6	8100	9T58R0083
208/277/380 Volts	115/95 Volts	0.10	3	5.1	8150	9T58R0084
208/277/380 Volts	115/95 Volts	0.15	3	6.5	8200	9T58R0085
208/277/380 Volts	115/95 Volts	0.20	3	6.5	8200	9T58R0086
208/277/380 Volts	115/95 Volts	0.25	3	7.6	8250	9T58R0087
208/277/380 Volts	115/95 Volts	0.30	3	10.7	10225	9T58R0088
208/277/380 Volts	115/95 Volts	0.38	3	10.7	10225	9T58R0089
208/277/380 Volts	115/95 Volts	0.50	3	10.7	10225	9T58R0090
208/277/380 Volts	115/95 Volts	0.75	3	16.1	12300	9T58R0091
208/277/380 Volts	115/95 Volts	1	3	26.7	14225	9T58R0092
208/277/380 Volts	115/95 Volts	1.5	3	32.7	14300	9T58R0093
208/277/380 Volts	115/95 Volts	2	3	47.4	14475	9T58R0094

¹See page 10-66 for wiring diagrams.

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.



Dry Type Transformers Open Core and Coil Transformers Control

Single-Phase, Non-encapsulated Design

60 Hz Terminal Board Connection

Input Voltage	Output Voltage	kVA	Wiring Diagram No. ¹	Approx. Net Weight (Lbs)	Frame Size	Product Number
240x480 Volts	120/240 Volts	0.05	4	2.4	6100	9T58R2802
240x480 Volts	120/240 Volts	0.08	4	2.8	6125	9T58R2803
240x480 Volts	120/240 Volts	0.10	4	3.6	8100	9T58R2804
240x480 Volts	120/240 Volts	0.15	4	5.1	8150	9T58R2805
240x480 Volts	120/240 Volts	0.20	4	5.8	8175	9T58R2806
240x480 Volts	120/240 Volts	0.25	4	6.5	8200	9T58R2807
240x480 Volts	120/240 Volts	0.30	4	6.5	8200	9T58R2808
240x480 Volts	120/240 Volts	0.38	4	7.6	8250	9T58R2809
240x480 Volts	120/240 Volts	0.50	4	10.7	10225	9T58R2810
240x480 Volts	120/240 Volts	0.75	4	12	12225	9T58R2811
240x480 Volts	120/240 Volts	1	4	16.1	12300	9T58R2812
240x480 Volts	120/240 Volts	1.5	4	26.7	14225	9T58R2813
240x480 Volts	120/240 Volts	2	4	32.7	14300	9T58R2814
240x480 Volts	120/240 Volts	3	4	47.4	14475	9T58R2815
600 Volts	120/240 Volts	0.08	5	2.8	6125	9T58R2823
600 Volts	120/240 Volts	0.10	5	3.6	8100	9T58R2824
600 Volts	120/240 Volts	0.20	5	5.8	8175	9T58R2826
600 Volts	120/240 Volts	0.25	5	6.5	8200	9T58R2827
600 Volts	120/240 Volts	0.30	5	6.5	8200	9T58R2828
600 Volts	120/240 Volts	0.50	5	10.7	10225	9T58R2830
600 Volts	120/240 Volts	0.75	5	12	12225	9T58R2831
600 Volts	120/240 Volts	1	5	16.1	12300	9T58R2832
600 Volts	120/240 Volts	1.5	5	26.7	14225	9T58R2833
600 Volts	120/240 Volts	2	5	32.7	14300	9T58R2834
600 Volts	120/240 Volts	3	5	47.4	14475	9T58R2835
120x240 Volts	120/240 Volts	0.10	6	3.6	8100	9T58R2907
120x240 Volts	120/240 Volts	0.20	6	5.8	8175	9T58R2909
120x240 Volts	120/240 Volts	0.30	6	6.5	8200	9T58R2911
120x240 Volts	120/240 Volts	0.50	6	10.7	10225	9T58R2913
120x240 Volts	120/240 Volts	0.75	6	12	12225	9T58R2914
120x240 Volts	120/240 Volts	1	6	16.1	12300	9T58R2915
120x240 Volts	120/240 Volts	2	6	32.7	14300	9T58R2917
120x240 Volts	120/240 Volts	3	6	47.4	14475	9T58R2918

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	2.4	6100	9T58R2873
120 x 240 Volts	12/24 Volts	0.075	7	2.8	6125	9T58R2874
120 x 240 Volts	12/24 Volts	0.10	7	3.6	8100	9T58R2875
120 x 240 Volts	12/24 Volts	0.15	7	5.1	8150	9T58R2876
120 x 240 Volts	12/24 Volts	0.20	7	5.8	8175	9T58R2877
120 x 240 Volts	12/24 Volts	0.25	7	6.5	8200	9T58R2878
120 x 240 Volts	12/24 Volts	0.30	7	6.5	8200	9T58R2879
240 x 480 Volts	12/24 Volts	0.25	---	6.5	8200	9T58R3024
240 x 480 Volts	12/24 Volts	0.05	---	2.4	6100	9T58R3164
240 x 480 Volts	12/24 Volts	0.10	---	3.6	8100	9T58R4132
240 x 480 Volts	12/24 Volts	0.15	---	5.1	8150	9T58R4133
208 x 240 Volts	12/24 Volts	0.05	---	2.4	6100	9T58R4050
208 x 240 Volts	12/24 Volts	0.10	---	3.6	8100	9T58R4051
208 x 240 Volts	12/24 Volts	0.15	---	5.1	8150	9T58R4052
208 x 240 Volts	12/24 Volts	0.25	---	6.5	8200	9T58R4053

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	0.50	4	10.7	10225	9T58R2930
240 x 480 Volts	120/240 Volts	0.75	4	16.1	12300	9T58R2931
240 x 480 Volts	120/240 Volts	1	4	26.7	14225	9T58R2932
240 x 480 Volts	120/240 Volts	1.5	4	32.7	14300	9T58R2933
240 x 480 Volts	120/240 Volts	2	4	47.4	14475	9T58R2934
240 x 480 Volts	120/240 Volts	3	4	47.4	14475	9T58R2935
380/400/416 Volts	115/230 Volts	0.25	8	6.5	8200	9T58R2975
380/400/416 Volts	115/230 Volts	0.50	8	10.7	10225	9T58R2978
380/400/416 Volts	115/230 Volts	0.75	8	16.1	12300	9T58R2979
380/400/416 Volts	115/230 Volts	1	8	26.7	14225	9T58R2980
380/400/416 Volts	115/230 Volts	1.5	8	32.7	14300	9T58R2981
380/400/416 Volts	115/230 Volts	2	8	47.4	14475	9T58R2982
380/400/416 Volts	115/230 Volts	3	8	47.4	14475	9T58R2983

¹See page 10-66 for wiring diagrams.

²Secondary fusing not available.



Dry Type Transformers Open Core and Coil Transformers Control

Section 10

Single-Phase, Non-encapsulated Design

60 Hz Leads Out Connection²

Input Voltage	Output Voltage	kVA	Wiring Diagram No. ¹	Approx. Net Weight (Lbs)	Frame Size	Product Number
120x240 Volts	12/24 Volts	0.05	7	2.4	6100	9T58R1873G07
120x240 Volts	12/24 Volts	0.075	7	2.8	6125	9T58R1874G07
120x240 Volts	12/24 Volts	0.10	7	3.6	8100	9T58R1875G07
120x240 Volts	12/24 Volts	0.15	7	5.1	8150	9T58R1876G07
120x240 Volts	12/24 Volts	0.20	7	5.8	8175	9T58R1877G07
120x240 Volts	12/24 Volts	0.25	7	6.5	8200	9T58R1878G07
120x240 Volts	12/24 Volts	0.30	7	6.5	8200	9T58R1879G07
120x240 Volts	12/24 Volts	0.50	7	10.7	10225	9T58R1881G07
120x240 Volts	12/24 Volts	0.75	7	12	12225	9T58R1882G07
120x240 Volts	12/24 Volts	1	7	26.7	14225	9T58R1883G07

60 Hz Leads Out Connection²

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	2.4	6100	9T58R1802G07
240 x 480 Volts	120/240 Volts	0.075	4	2.8	6125	9T58R1803G07
240 x 480 Volts	120/240 Volts	0.10	4	3.6	8100	9T58R1804G07
240 x 480 Volts	120/240 Volts	0.15	4	5.1	8150	9T58R1805G07
240 x 480 Volts	120/240 Volts	0.20	4	5.8	8175	9T58R1806G07
240 x 480 Volts	120/240 Volts	0.25	4	6.5	8200	9T58R1807G07
240 x 480 Volts	120/240 Volts	0.30	4	6.5	8200	9T58R1808G07
240 x 480 Volts	120/240 Volts	0.375	4	7.6	8250	9T58R1809G07
240 x 480 Volts	120/240 Volts	0.50	4	10.7	10225	9T58R1810G07
240 x 480 Volts	120/240 Volts	0.75	4	12	12225	9T58R1811G07
240 x 480 Volts	120/240 Volts	1	4	16.1	12300	9T58R1812G07
240 x 480 Volts	120/240 Volts	1.5	4	26.7	14225	9T58R1813G07
240 x 480 Volts	120/240 Volts	2	4	32.7	14300	9T58R1814G07
240 x 480 Volts	120/240 Volts	3	4	47.4	14475	9T58R1815G07
600 Volts	120/240 Volts	0.10	5	3.6	8100	9T58R1824G07
600 Volts	120/240 Volts	0.20	5	5.8	8175	9T58R1826G07
600 Volts	120/240 Volts	0.30	5	6.5	8200	9T58R1828G07
600 Volts	120/240 Volts	0.50	5	10.7	10225	9T58R1830G07
600 Volts	120/240 Volts	1	5	26.7	14225	9T58R1832G07
600 Volts	120/240 Volts	2	5	32.7	14300	9T58R1834G07
600 Volts	120/240 Volts	3	5	47.4	14475	9T58R1835G07

50/60 Hz Leads Out Connection²

Input Voltage	Output Voltage	kVA	Wiring Diagram No. ¹	Approx. Net Weight (Lbs)	Frame Size	Product Number
240x480 Volts	120/240 Volts	0.25	4	6.5	8200	9T58R1927G07
240x480 Volts	120/240 Volts	0.30	4	7.6	8250	9T58R1928G07
240x480 Volts	120/240 Volts	0.50	4	10.7	10225	9T58R1930G07
240x480 Volts	120/240 Volts	0.75	4	16.1	12300	9T58R1931G07
240x480 Volts	120/240 Volts	1.5	4	32.7	14300	9T58R1933G07
240x480 Volts	120/240 Volts	3	4	47.4	14475	9T58R1935G07
380/400/416 Volts	115/230 Volts	0.50	8	10.7	10225	9T58R1978G07
380/400/416 Volts	115/230 Volts	0.75	8	16.1	12300	9T58R1979G07
380/400/416 Volts	115/230 Volts	1	8	26.7	14225	9T58R1980G07
380/400/416 Volts	115/230 Volts	1.5	8	32.7	14300	9T58R1981G07

¹See page 10-66 for wiring diagrams.

²Secondary fusing not available.

50/60 Hz Universal Voltage/Multitap Terminal Strip Connection

kVA	Frame Size	Product Number
0.25	10225	9T58R3715
0.35	10225	9T58R3716
0.50	12225	9T58R3717
0.75	12300	9T58R3718
1	14225	9T58R3719
1.5	14300	9T58R3720
2	14475	9T58R3721

Voltage Table

Incoming Voltage				Output Voltage		
H1 H2	H1 H3	H1 H4	H1 H5	X1 X2	X1 X3	X1 X4
208			500	85	100	110
		415		86	104	113
220	380	440	550	91	110	120
230	40	460	575	95	115	125
240	416	480	600	99	120	130



Dry Type Transformers Open Core and Coil Transformers Options and Fusing Guide

Transformer Options

Accessory Description	Product Number
Jumper Links	9T58R0000G01
Lead Kit (12 GA) SM (10" long) (6-8 fr)	9T58R0000G07
Lead Kit (10 GA) LG (10" long) (10-14 fr)	9T58R0000G08
(1) Quarter-Inch Fuseholder	9T58R0000G10
(1) Midget Fuseholder	9T58R0000G20
(1) H/K Fuseholder	9T58R0000G30
(2) CC Fuseholder	9T58R0000G40
(2) H/K Fuseholder	9T58R0000G50
(2) CC + (1) Quarter-Inch Fuseholder	9T58R0000G60
(2) CC + (1) Midget Fuseholder	9T58R0000G70
(2) CC + (1) H/K Fuseholder	9T58R0000G80
(2) CC Fuseholder	9T58E0000G40
(2) CC + (1) Midget Fuseholder	9T58E0000G70

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



Dry Type Transformers

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Machine Tool Applications

Section 10

Control
Wiring Diagrams

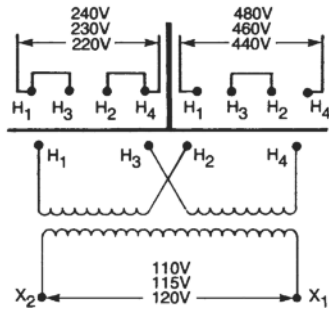


Diagram 1

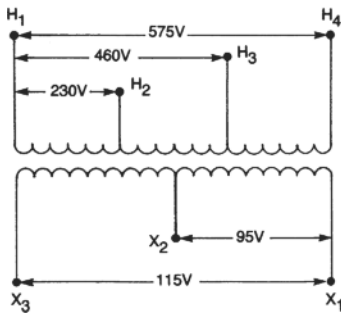


Diagram 2

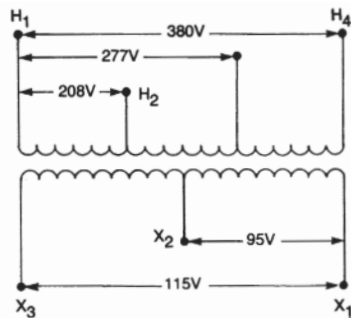


Diagram 3

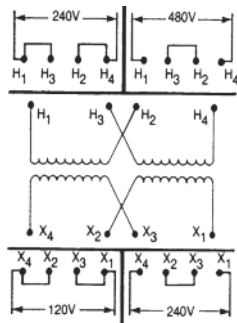


Diagram 4

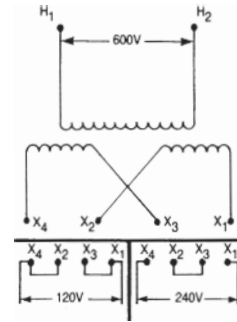


Diagram 5

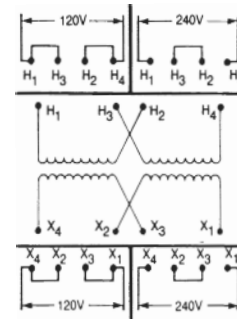


Diagram 6

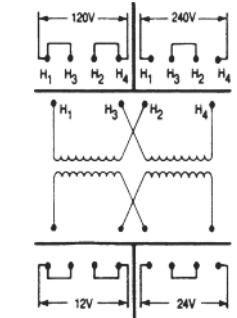


Diagram 7

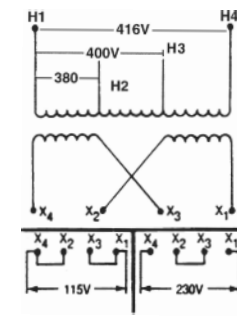


Diagram 8



Dry Type Transformers

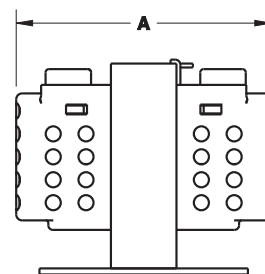
Open Core and Coil Transformers

Outlines and Dimensions

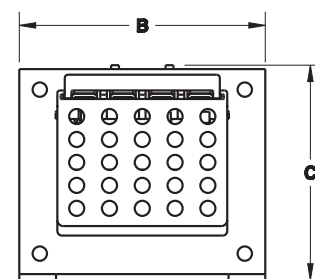
6, 8, 10, 12 and 14 Frames

Terminal Board and Leads Out Connection Style

Frame Size	Outline	Approx. Net Weight (Lbs.)	A Depth (in.)	B Width (in.)	C Height (in.)	E Mounting Depth (in.)	F Mounting Width (in.)	Mounting Slot (in.)
6100	303B957AA	2.4	3.75	3	2.65	2.16	2.5	.219x.750
6125	303B957AA	2.8	4	3	2.65	2.41	2.5	.219x.750
6150	303B957AA	3.1	4.25	3	2.65	2.66	2.5	.219x.750
8100	303B957CA	3.6	4	3.75	3.28	2.16	3.13	.219x.750
8150	303B957CA	5.1	4.5	3.75	3.28	2.66	3.13	.219x.750
8175	303B957CA	5.8	4.75	3.75	3.28	2.91	3.13	.219x.750
8200	303B957CA	6.5	5	3.75	3.28	3.16	3.13	.219x.750
8250	303B957CA	7.6	5.5	3.75	3.28	3.66	3.13	.219x.750
10225	303B957EA	10.7	5.62	4.5	3.9	3.38	3.75	.297x.580
12225	303B957GA	12	5.88	5.25	4.53	3.38	4	.297x.580
12300	303B957GA	16.1	6.62	5.25	4.53	4.12	4	.297x.580
14225	303B957JA	26.7	6.5	6.75	5.78	3.38	5.5	.297x.580
14300	303B957JA	32.7	7.25	6.75	5.78	4.12	5.5	.297x.580
14475	303B957JA	47.4	9	6.75	5.78	5.88	5.5	.297x.580



SIDE



FRONT

TOP

