Type MTK Transformer

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Type MTK

Product Description

Note: The following pages provide listings for most standard transformer ratings and styles. For other ratings or styles not shown, or for special enclosure types (including stainless steel), refer to Eaton.

- Epoxy resin-impregnated coil
- Economical solution for high inrush applications

Application Description

Transformers provide stepped-down voltages to machine tool control devices, enabling control circuits to be isolated from all power and lighting circuits. This allows the use of grounded or ungrounded circuits that are independent of the power or lighting grounds; thus, greater safety is afforded the operator. The control transformer line is particularly adaptable on applications where compact construction is demanded.

Features, Benefits and Functions

- Epoxy resin impregnated coil design
- Copper magnet wire for high-quality, efficient operation
- 50/60 Hz operation
- 180°C insulation system
- Performance meets/exceeds requirements of ANSI/NEMA ST-1
- Regulation exceeds ANSI/NEMA requirements for all ratings
- 500–5000 VA ratings

Standards and Certifications

- UL listed
- cUL listed
- RoHS compliant

UL Listed c UL Listed RoHS COMPLIANT

Industry Standards

All Eaton dry-type distribution and control transformers are built and tested in accordance with applicable NEMA, ANSI and IEEE Standards. All 600 volt class transformers are UL listed unless otherwise noted.

Catalog Number Selection

Please refer to **Page V7-T7-3**.

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Product Selection

Additional Product Selection information is available in Volume 2, **CA08100003E**.

Type MTK

Primary: 240 x 480, 230 x 460, 220 x 440 Secondary: 120/115/110

VA	Wiring Diagram ①	Weight Lbs (kg)	Style Number
500	1	13.0 (5.9)	**C0500K2A**
750	1	19.5 (8.9)	**C0750K2A**
1000	1	29.8 (13.6)	**C1000K2A**
1500	1	30.0 (13.6)	**C1500K2A**
2000	1	38.0 (17.3)	**C2000K2A**
3000	1	53.0 (24.1)	**C3000K2A**
5000	1	89.0 (40.5)	**C5000K2A**

Primary: 208/277 Secondary: 120

VA	Wiring Diagram ①	Weight Lbs (kg)	Style Number
1000	4	29.0 (13.1)	**C1000K3A**
1500	4	33.0 (15.0)	**C1500K3A**
2000	4	43.0 (19.5)	**C2000K3A**
3000	4	64.0 (29.0)	**C3000K3A**
5000	4	102.0 (46.3)	**C5000K3A**

Primary: 230/460/575 Secondary: 115/95

VA	Wiring Diagram ①	Weight Lbs (kg)	Style Number
1000	5	29.2 (13.3)	**C1000K3C**
1500	5	33.5 (15.2)	**C1500K3C**
2000	5	42.5 (19.3)	**C2000K3C**
3000	5	63.7 (29.0)	**C3000K3C**
5000	5	102.0 (46.4)	**C5000K3C**

Primary: 208/380/416 Secondary: 115/95

VA	Wiring Diagram ①	Weight Lbs (kg)	Style Number
1000	9	29.0 (13.1)	**C1000K3D**
1500	9	43.0 (19.5)	**C1500K3D**
2000	9	55.0 (25.0)	**C2000K3D**
3000	9	74.0 (33.5)	**C3000K3D**
5000	9	108.0 (49.0)	**C5000K3D**

Primary: 550/575/600 Secondary: 110/115/120

VA	Wiring Diagram ①	Weight Lbs (kg)	Style Number
1000	10	29.0 (13.1)	**C1000K4C**
1500	10	33.0 (15.0)	**C1500K4C**
2000	10	43.0 (19.5)	**C2000K4C**
3000	10	64.0 (29.0)	**C3000K4C**
5000	10	102.0 (46.3)	**C5000K4C**

Primary: 380/400/415 Secondary: 110 x 220

VA	Wiring Diagram ①	Weight Lbs (kg)	Style Number
1000	6	28.0 (12.7)	**C1000K4D**
1500	6	33.0 (15.0)	**C1500K4D**
2000	6	43.0 (19.5)	**C2000K4D**
3000	6	64.0 (29.0)	**C3000K4D**
5000	6	102.0 (46.3)	**C5000K4D**

Primary: 240 x 480 with Jumpers Secondary: 120 x 240 with Jumpers, Secondary Fuse Clips Not Applicable

VA	Wiring Diagram ①	Weight Lbs (kg)	Style Number
1000	11	26.4 (12.0)	**C1000K2CXX**
1500	11	31.0 (14.1)	**C1500K2CXX**
2000	11	40.0 (18.2)	**C2000K2CXX**
3000	11	56.0 (25.5)	**C3000K2CXX**
5000	11	85.5 (28.9)	**C5000K2CXX**

Primary: 120 x 240 with Jumpers Secondary: 24

VA	Wiring Diagram ①	Weight Lbs (kg)	Style Number
750	3	19.0 (8.6)	**C0750K1B**
1000	3	26.4 (12.0)	**C1000K1B**

Primary: 240/416/480/600, 230/400/460/575, 220/380/440/550, 208/500 Secondary: 99/120/130, 95/115/125, 91/110/120, 85/100/110

VA	Wiring Diagram ①	Weight Lbs (kg)	Style Number
1000	8	26.5 (12.0)	**C1000K6U**
1500	8	38.5 (17.5)	**C1500K6U**
2000	8	52.0 (23.6)	**C2000K6U**
3000	8	68.0 (30.9)	**C3000K6U**
5000	8	105.0 (47.7)	**C5000K6U**

Note

① See **Page V7-T7-15** for wiring diagrams.

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Technical Data and Specifications

Insulation System and Temperature Rise

Industry standards classify insulation systems and rise as shown below:

Insulation System Classification

Ambient	+ Winding Rise	+ Hot Spot	= Temp. Class
40°C	55°C	10°C	105°C
40°C	80°C	30°C	150°C
25°C	135°C	20°C	180°C
40°C	115°C	30°C	185°C
40°C	150°C	30°C	220°C

The design life of transformers having different insulation systems is the same—the lower-temperature systems are designed for the same life as the higher-temperature systems.

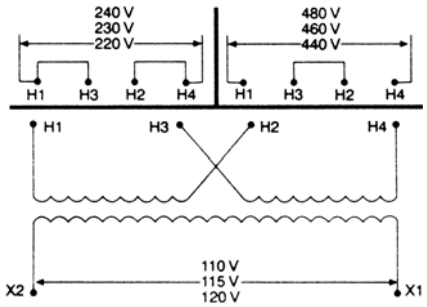
Series-Multiple Windings

Series-multiple windings consist of two similar coils in each winding that can be connected in series or parallel (multiple). Transformers with series-multiple windings are designated with an "x" or "/" between the voltage ratings, such as voltages of "120/240" or "240 x 480." If the series-multiple winding is designated by an "x," the winding can be connected only for a series or parallel. With the "/" designation, a mid-point also becomes available in addition to the series or parallel connection. As an example, a 120 x 240 winding can be connected for either 120 (parallel) or 240 (series), but a 120/240 winding can be connected for 120 (parallel), 240 (series) or 240 with a 120 mid-point.

For additional information, please refer to Volume 2, **CA08100003E**.

Wiring Diagrams

Diagram 1



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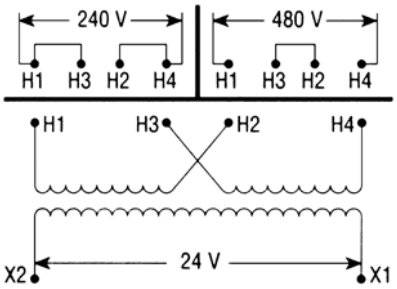

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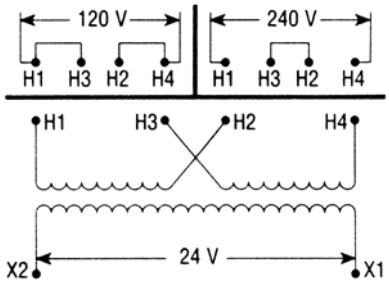

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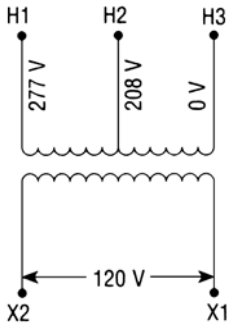

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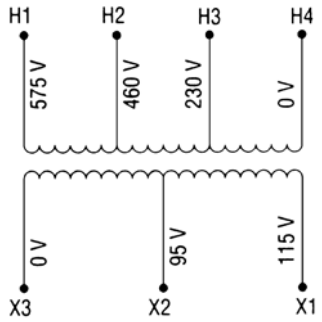

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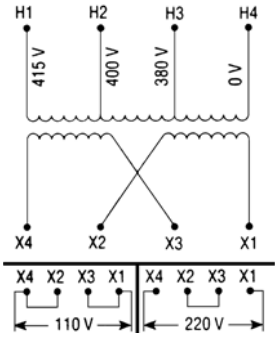

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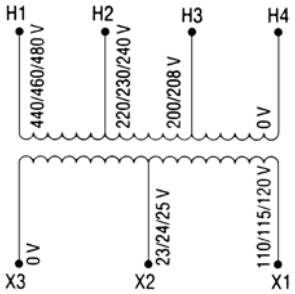

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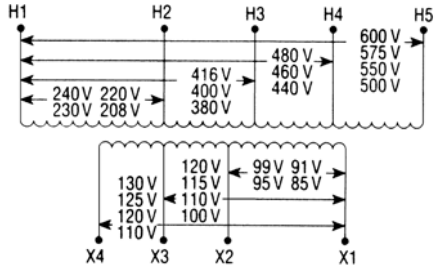

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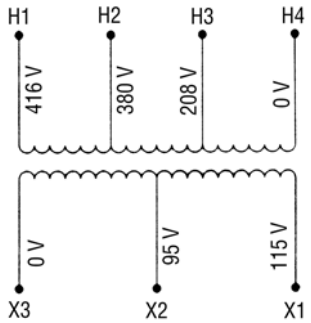

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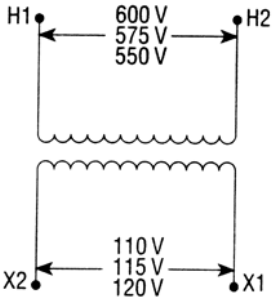

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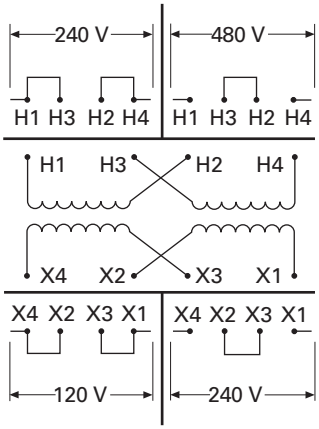

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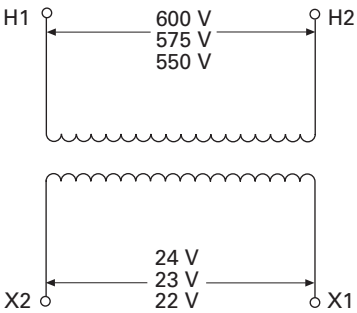

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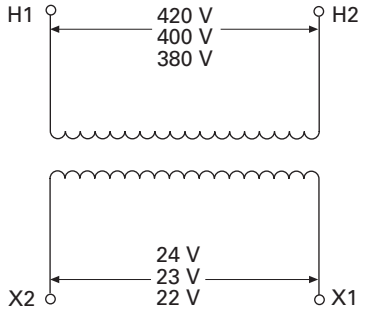
Diagram 13



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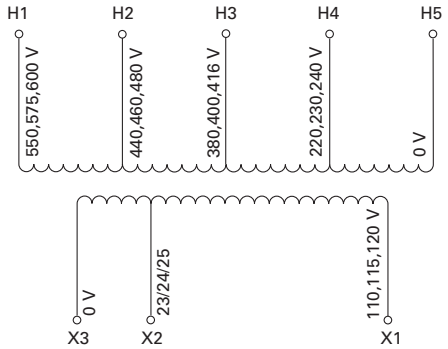

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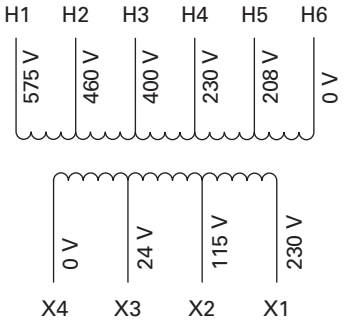

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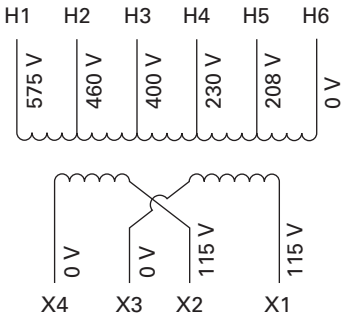

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