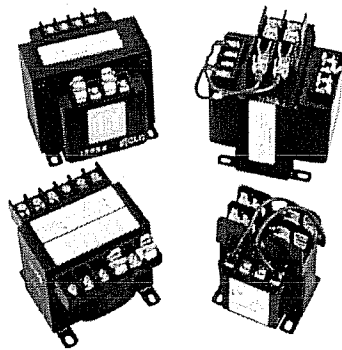


Type MTK Transformer



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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
- CSA certified
- RoHS compliant



### Industry Standards

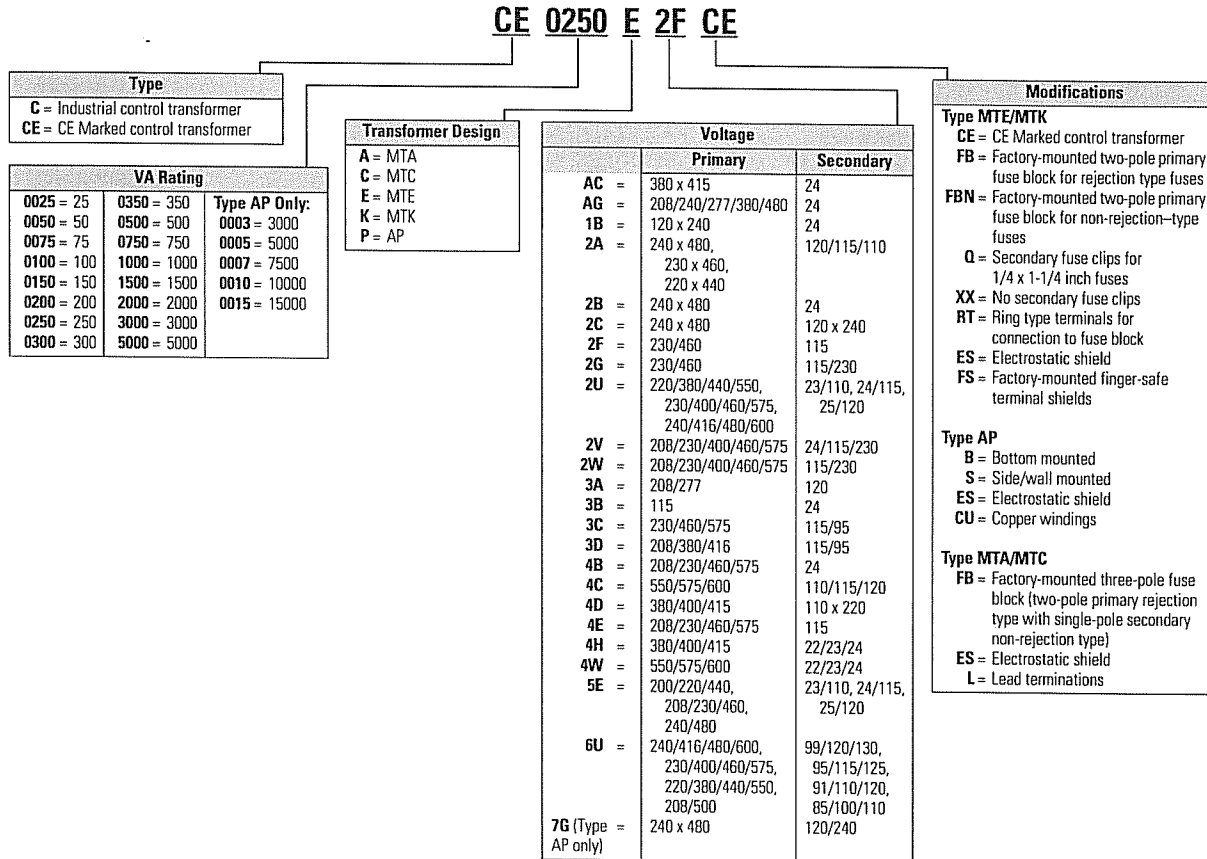
All Eaton dry-type distribution and control transformers by Eaton Corporation are built and tested in accordance with applicable NEMA, ANSI and IEEE Standards. All 600 volt class transformers are UL listed unless otherwise noted.

### Catalog Number Selection

Please refer to Page V7-T7-3.

## Catalog Number Selection

Industrial Control Transformers, CE Marked Control Transformers—Example: CE0250E2FCE ①



**Notes**

① For Eaton's dry-type transformers catalog number selection, see Volume 2, CA08100003E.  
Contact your local Eaton sales office for voltage combinations not shown. Use table for catalog number breakdown only. Do not use to create catalog numbers because all combinations may not be valid.

# 7.1

## Industrial Control Transformers

### Transformers

#### 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.

## 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

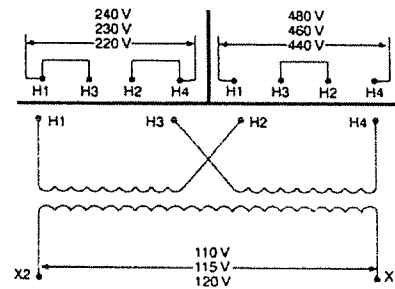


Diagram 2

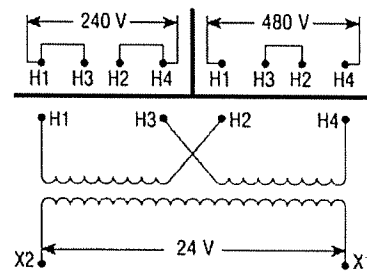


Diagram 3

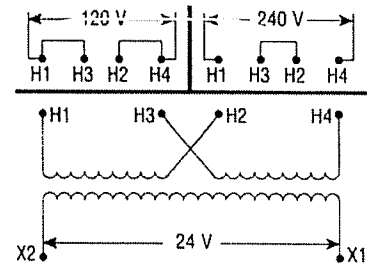


Diagram 4

