

Type MTE Transformer



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Type MTE

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-encapsulated coils

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.

Note: The MTG “open core-coil design” has been superseded by the epoxy-encapsulated core-coil design MTE with no change to dimensions or functionality.

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Features, Benefits and Functions

- Epoxy encapsulated
- Laminations of high-quality silicon steel to minimize core losses and optimize performance
- Copper magnet wire for high-quality, efficient operation
- Secondary fuse clips where applicable
- Optional primary fusing
- Molded in terminals
- 50/60 Hz operation
- 130°C insulation system standard
- Performance meets/exceeds requirements of ANSI/NEMA ST-1
- Regulation exceeds ANSI/NEMA requirements for all ratings
- 25–1500 VA ratings
- Molded-in terminals for maximum durability

Standards and Certifications

- UL listed
- cUL 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**.

Primary: 200/220/440, 208/230/460, 240/480
Secondary: 23/110, 24/115, 25/120 with Fuse Clips for 13/32 x 1-1/2 Fuses

VA	Wiring Diagram ①	Weight Lbs (kg)	Style Number
50	7	3.4 (1.5)	C0050E5E ②
75	7	4.8 (2.2)	C0075E5E ②
100	7	5.9 (2.7)	C0100E5E ②
150	7	7.9 (3.6)	C0150E5E
200	7	10.6 (4.8)	C0200E5E
250	7	13.9 (6.3)	C0250E5E
300	7	15.5 (7.0)	C0300E5E
350	7	16.8 (7.6)	C0350E5E
500	7	23.4 (10.6)	C0500E5E

Universal Design (MTE Epoxy Encapsulated)
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 with Fuse Clips for 13/32 x 1-1/2 Fuses

VA	Wiring Diagram ①	Weight Lbs (kg)	Style Number
50	8	4.0 (1.8)	C0050E6U ②③
100	8	6.6 (3.0)	C0100E6U ②③
150	8	8.8 (4.0)	C0150E6U ②④
250	8	14.7 (6.7)	C0250E6U ②④
350	8	18.6 (8.4)	C0350E6U ②④
500	8	25.6 (11.6)	C0500E6U ②④
750	8	30.5 (13.8)	C0750E6U ②④

Transformers with Primary Fuse Blocks

Primary: 240 x 480, 230 x 460, 220 x 440 with Jumpers and Two-Pole Primary Fuse Block for Rejection-Type Fuses
Secondary: 120/115/110 with Fuse Clips for 13/32 x 1-1/2 Fuses

VA	Wiring Diagram ①	Weight Lbs (kg)	Style Number
50	1	2.8 (1.3)	C0050E2AFB ②
75	1	3.7 (1.7)	C0075E2AFB ②
100	1	4.4 (2.0)	C0100E2AFB ②
150	1	6.9 (3.1)	C0150E2AFB
200	1	8.7 (3.9)	C0200E2AFB
250	1	10.2 (4.6)	C0250E2AFB
300	1	11.5 (5.2)	C0300E2AFB
350	1	13.8 (6.3)	C0350E2AFB
500	1	19.4 (8.8)	C0500E2AFB
750	1	28.3 (12.8)	C0750E2AFB
1000	1	29.7 (13.4)	C1000E2AFB
1500	1	40.2 (18.1)	C1500E2AFB

Primary: 240 x 480 with Jumpers and Two-Pole Primary Fuse Block for Rejection-Type Fuses
Secondary: 24 with Fuse Clips for 13/32 x 1-1/2 Fuses

VA	Wiring Diagram ①	Weight Lbs (kg)	Style Number
50	2	2.8 (1.3)	C0050E2BFB ②
75	2	3.8 (1.7)	C0075E2BFB ②
100	2	4.4 (2.1)	C0100E2BFB ②
150	2	6.9 (3.1)	C0150E2BFB
200	2	8.7 (3.9)	C0200E2BFB
250	2	10.3 (4.7)	C0250E2BFB
300	2	11.6 (5.3)	C0300E2BFB
350	2	13.6 (6.2)	C0350E2BFB
500	2	17.7 (8.0)	C0500E2BFB

Notes

- ① See Page V7-T7-11 for wiring diagrams.
- ② 105°C insulation system.
- ③ Type MTG open core-coil universal design has been superseded by Type MTE epoxy encapsulated universal design with no changes to form, fit or function.
- ④ Type MTE epoxy encapsulated universal design.