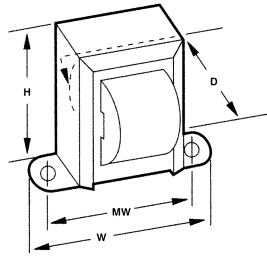
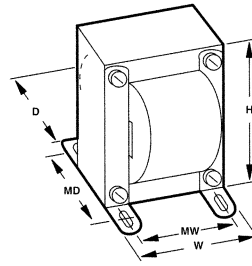


# Power Transformers

## Chassis Mount: Control



Case Type Z



Case Type U

### :: Description

Triad control transformers supply secondary voltages that are commonly utilized in various electronic, electro-magnetic and electrical control conditions. These include such applications as use with relays, solenoids, small motors, speed changers, pumps, heating elements, control valves for fluids and gases, fans and blowers, electronic tubes, automatic assembly equipment, recording devices, elevators, door openers, and low voltage lamps.

### :: Specifications

**Primary:** 115/230 VAC, 50/60 Hz

**VA Range:** 12 to 192

**Secondary:** 6/12/24 VAC

### :: Primary, 115/230 Volts / Secondaries, 6/12/24 Volts

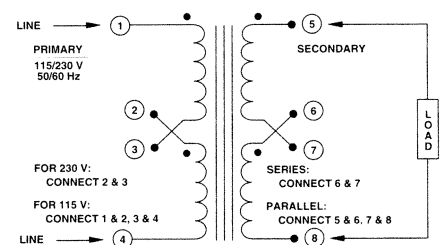
| Section | Type No. | Secondaries      |               | VA  | Case Type | Connections | Dimensions        |                   |                   | Mounting Dimensions |                 | Wt. Lbs. |
|---------|----------|------------------|---------------|-----|-----------|-------------|-------------------|-------------------|-------------------|---------------------|-----------------|----------|
|         |          | Series           | Parallel      |     |           |             | H                 | W                 | D                 | MW                  | MD              |          |
| A       | F-105Z   | 12.0V CT @ 1.0A  | 6.0V @ 2.0A   | 12  | Z         | Lugs        | 2 $\frac{3}{8}$   | 2 $\frac{7}{8}$   | 1 $\frac{1}{4}$   | 2 $\frac{3}{8}$     | •               | 1.000    |
|         | F-211Z   | 48.0V CT @ 0.25A | 24.0V @ 0.5A  |     |           |             |                   |                   |                   |                     |                 | 0.678    |
| B       | F-106Z   | 12.0V CT @ 2.0A  | 6.0V @ 4.0A   | 24  | Z         | Lugs        | 2 $\frac{1}{4}$   | 3 $\frac{3}{8}$   | 2                 | 2 $\frac{5}{16}$    | •               | 1.500    |
|         | F-212Z   | 48.0V CT @ 0.50A | 24.0V @ 1.0A  |     |           |             |                   |                   |                   |                     |                 | 1.050    |
| C       | F-107Z   | 24.0V CT @ 2.0A  | 12.0V @ 4.0A  | 48  | Z         | Lugs        | 3 $\frac{3}{8}$   | 3 $\frac{3}{8}$   | 2 $\frac{3}{8}$   | 3 $\frac{3}{8}$     | •               | 2.500    |
|         | F-213Z   | 48.0V CT @ 1.0A  | 24.0V @ 2.0A  |     |           |             |                   |                   |                   |                     |                 | 2.250    |
| D       | F-398U   | 24.0V CT @ 3.0A  | 12.0V @ 6.0A  | 72  | U         | Lugs        | 3 $\frac{13}{32}$ | 3 $\frac{13}{16}$ | 2 $\frac{13}{16}$ | 2 $\frac{1}{4}$     | 2 $\frac{1}{4}$ | 4.250    |
| E       | F-108U   | 24.0V CT @ 4.0A  | 12.0V @ 8.0A  | 96  | U         | Lugs        | 3 $\frac{13}{32}$ | 2 $\frac{13}{16}$ | 3 $\frac{1}{16}$  | 2 $\frac{1}{4}$     | 2 $\frac{7}{8}$ | 4.250    |
|         | F-214U   | 48.0V CT @ 2.0A  | 24.0V @ 4.0A  |     |           |             |                   |                   |                   |                     |                 | 3.240    |
| F       | F-399U   | 24.0V CT @ 6.0A  | 12.0V @ 12.0A | 144 | U         | Lugs        | 4 $\frac{1}{4}$   | 3 $\frac{3}{8}$   | 3 $\frac{1}{2}$   | 2 $\frac{1}{2}$     | 2 $\frac{7}{8}$ | 5.900    |
|         | F-400U   | 48.0V CT @ 3.0A  | 24.0V @ 6.0A  |     |           |             |                   |                   |                   |                     |                 |          |
| G       | F-109U   | 24.0V CT @ 8.0A  | 12.0V @ 16.0A | 192 | U         | Lugs        | 4 $\frac{3}{16}$  | 3 $\frac{7}{16}$  | 3 $\frac{3}{16}$  | 2 $\frac{3}{4}$     | 3               | 8.00     |
|         | F-215U   | 48.0 V CT @ 4.0A | 24.0V @ 8.0A  |     |           |             |                   |                   |                   |                     |                 | 6.060    |

CT = Center Tap Mounting hole sizes: Z =  $\frac{7}{16}$ " U =  $\frac{13}{64}$ " x  $\frac{3}{8}$ "

### :: Outline Dimensions

#### Technical Notes

1. Hi-pot tested at 1,500 VRMS.
2. Secondaries may be connected in series or parallel for expanded voltage and current ranges. See Control Transformer Connections diagram.
3. Transformer termination is solder lug.



Control Transformer Connections

# Control Transformers

Class 2



## Control Transformers

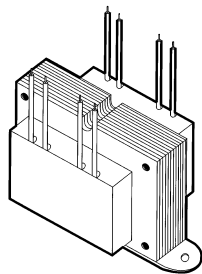
 UL File E65390  
 CSA File 226495


Figure A

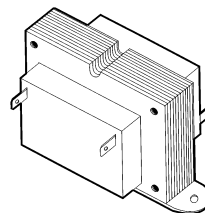


Figure B

### :: Description

Triad control transformers come with tamper resistant shrouds for safety and steel bracket welded to the bottom of the transformer for ease of mounting.

### :: Specifications

**Maximum Power:** 40VA

**Input (50/60 Hz):** 120V, 240V, 120/208/240V, 120/240V, 208/240V

**Output:** 12V, 24V

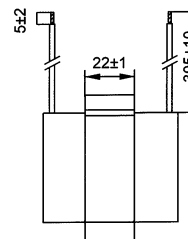
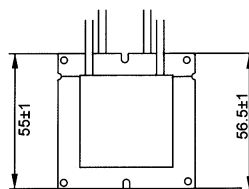
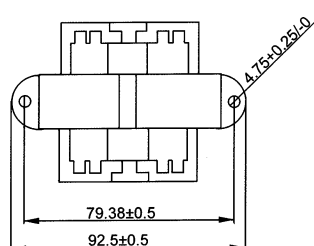
### :: Control Transformers

| Type No.      | Primaries   | Secondary | VA | Connections | Dimensions (mm) |       |       | Mounting Dimensions | Wt. Lbs. |
|---------------|-------------|-----------|----|-------------|-----------------|-------|-------|---------------------|----------|
|               |             |           |    |             | H               | W     | D     |                     |          |
| TCT40-01E07AB | 120V        | 24V       | 40 | Lugs        | 56.50           | 92.50 | 57.15 | 79.38               | 1.5      |
| TCT40-01E07K  | 120V        | 24V       | 40 | Leads       | 56.50           | 92.50 | 57.15 | 79.38               | 1.5      |
| TCT40-02E07AB | 240V        | 24V       | 40 | Lugs        | 56.50           | 92.50 | 57.15 | 79.38               | 1.5      |
| TCT40-02E07K  | 240V        | 24V       | 40 | Leads       | 56.50           | 92.50 | 57.15 | 79.38               | 1.5      |
| TCT40-05E07AB | 120/208/240 | 24V       | 40 | Lugs        | 56.50           | 92.50 | 57.15 | 79.38               | 1.5      |
| TCT40-05E07K  | 120/208/240 | 24V       | 40 | Leads       | 56.50           | 92.50 | 57.15 | 79.38               | 1.5      |
| TCT40-06E07AB | 120/240     | 24V       | 40 | Lugs        | 56.50           | 92.50 | 57.15 | 79.38               | 1.5      |
| TCT40-06E07K  | 120/240     | 24V       | 40 | Leads       | 56.50           | 92.50 | 57.15 | 79.38               | 1.5      |
| TCT40-09E07AB | 208/240     | 24V       | 40 | Lugs        | 56.50           | 92.50 | 57.15 | 79.38               | 1.5      |
| TCT40-09E07K  | 208/240     | 24V       | 40 | Leads       | 56.50           | 92.50 | 57.15 | 79.38               | 1.5      |
| TCT40-03E07AB | 120V        | 12V       | 40 | Lugs        | 56.50           | 92.50 | 57.15 | 79.38               | 1.5      |
| TCT40-03E07K  | 120V        | 12V       | 40 | Leads       | 56.50           | 92.50 | 57.15 | 79.38               | 1.5      |
| TCT40-04E07AB | 240V        | 12V       | 40 | Lugs        | 56.50           | 92.50 | 57.15 | 79.38               | 1.5      |
| TCT40-04E07K  | 240V        | 12V       | 40 | Leads       | 56.50           | 92.50 | 57.15 | 79.38               | 1.5      |
| TCT40-07E07AB | 120/208/240 | 12V       | 40 | Lugs        | 56.50           | 92.50 | 57.15 | 79.38               | 1.5      |
| TCT40-07E07K  | 120/208/240 | 12V       | 40 | Leads       | 56.50           | 92.50 | 57.15 | 79.38               | 1.5      |
| TCT40-08E07AB | 120/240     | 12V       | 40 | Lugs        | 56.50           | 92.50 | 57.15 | 79.38               | 1.5      |
| TCT40-08E07K  | 120/240     | 12V       | 40 | Leads       | 56.50           | 92.50 | 57.15 | 79.38               | 1.5      |
| TCT40-10E07AB | 208/240     | 12V       | 40 | Lugs        | 56.50           | 92.50 | 57.15 | 79.38               | 1.5      |
| TCT40-10E07K  | 208/240     | 12V       | 40 | Leads       | 56.50           | 92.50 | 57.15 | 79.38               | 1.5      |

### :: Outline Dimensions

#### Technical Notes

[mm]



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