



# RL-2240

## 50/60 HZ TRANSFORMERS

### DESCRIPTION

- Dual Transformer

### ENVIRONMENTAL DATA

- Storage temperature range:  
-55°C to +130°C
- Operating temperature range:  
-40°C to +130°C

### PACKAGING INFORMATION

- Packaging information: pg. 494

### FEATURES & APPLICATIONS

- Advanced design and manufacturing techniques of using split bobbins and nonconcentric winding of the primary and secondary results in low interwinding capacitive coupling and eliminates the need for electrostatic shielding
- Avoids crossover of primary and secondary leads
- Can be used in a wide variety of applications since they can be supplied with single 115 VAC or dual 115/230 VAC primaries for 50/60 Hz operation

Verify operation with sample in actual circuit. Order samples at [www.rencousa.com](http://www.rencousa.com).

### MECHANICAL DIMENSIONS

U.S. Standard (mm)

| PART NUMBER | SIZE | VA  | A (MAX.)      | B (TYP.)     | C (TYP.)     | D (MAX.)       | E (MAX.)       | F (TYP.)     |
|-------------|------|-----|---------------|--------------|--------------|----------------|----------------|--------------|
| RL-2240     | 2    | 1.1 | 1.375 (34.93) | 0.25 (6.35)  | 0.25 (6.35)  | 1.1250 (28.58) | 0.9375 (23.81) | 1.20 (30.48) |
| RL-2240     | 3    | 2.4 | 1.375 (34.93) | 0.25 (6.35)  | 0.25 (6.35)  | 1.1250 (28.58) | 1.1875 (30.16) | 1.20 (30.48) |
| RL-2240     | 4    | 6   | 1.625 (41.28) | 0.25 (6.35)  | 0.30 (8.89)  | 1.3125 (33.34) | 1.3125 (33.34) | 1.28 (32.51) |
| RL-2240     | 5    | 12  | 1.875 (47.63) | 0.30 (7.62)  | 0.40 (10.16) | 1.5625 (39.69) | 1.4375 (36.51) | 1.41 (35.81) |
| RL-2240     | 6    | 20  | 2.250 (57.15) | 0.30 (7.62)  | 0.40 (10.16) | 1.8750 (47.63) | 1.4375 (36.51) | 1.60 (40.64) |
| RL-2240     | 7    | 36  | 2.625 (66.68) | 0.40 (10.16) | 0.40 (10.16) | 2.1875 (55.56) | 1.5625 (39.69) | 1.85 (46.99) |

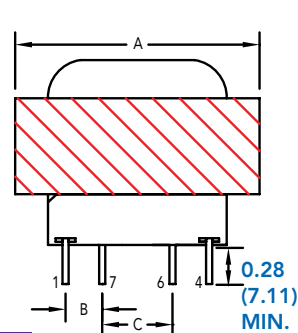
FRONT VIEW

SIDE VIEW

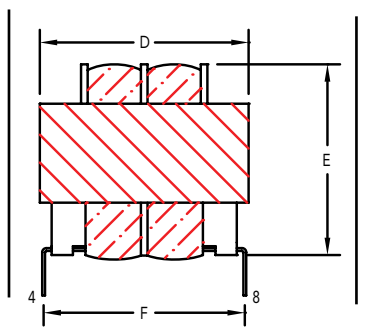
BOTTOM VIEW

SCHEMATIC

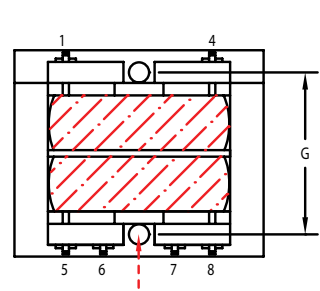
G (MAX.)



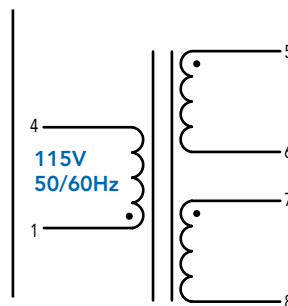
NOTE: WHITE DOT INDICATES PIN #1



PIN DIMENSION  
0.041 (1.04)



CLEARANCE HOLE FOR  
OPTIONAL NYLON MTG.  
SCREW AND NUT (2PL)



NOTE: PINS 2 AND 3 OMITTED

|                |
|----------------|
| -              |
| -              |
| 1.3125 (33.34) |
| 1.250 (31.75)  |
| 1.500 (38.10)  |
| *              |



RENCO ELECTRONICS INC.

595 International Place, Rockledge, FL 32955-4200 USA • [www.rencousa.com](http://www.rencousa.com) • ISO 9001 Certified  
Toll Free Engineering Hot Line: 800.645.5828 • P: 321.637.1000 • F: 321.637.1600



# RL-2240

| Renco Part Number<br>Single 115V 6 Pin | SECONDARY RMS RATING |               |
|----------------------------------------|----------------------|---------------|
|                                        | Series               | Parallel      |
| RL-2240-2-10                           | 10V C.T. @ 0.11 A    | 5V @ 0.22 A   |
| RL-2240-3-10                           | 10V C.T. @ 0.25 A    | 5V @ 0.50 A   |
| RL-2240-4-10                           | 10V C.T. @ 0.60 A    | 5V @ 1.20 A   |
| RL-2240-5-10                           | 10V C.T. @ 1.20 A    | 5V @ 2.40 A   |
| RL-2240-6-10                           | 10V C.T. @ 2.00 A    | 5V @ 4.00 A   |
| RL-2240-7-10                           | 10V C.T. @ 3.60 A    | 5V @ 7.20 A   |
| RL-2240-2-12                           | 12.6V C.T. @ 0.09 A  | 6.3V @ 0.18 A |
| RL-2240-3-12                           | 12.6V C.T. @ 0.20 A  | 6.3V @ 0.40 A |
| RL-2240-4-12                           | 12.6V C.T. @ 0.50 A  | 6.3V @ 1.00 A |
| RL-2240-5-12                           | 12.6V C.T. @ 1.00 A  | 6.3V @ 2.00 A |
| RL-2240-6-12                           | 12.6V C.T. @ 1.60 A  | 6.3V @ 3.20 A |
| RL-2240-7-12                           | 12.6V C.T. @ 2.85 A  | 6.3V @ 5.70 A |
| RL-2240-2-16                           | 16V C.T. @ 0.07 A    | 8V @ 0.14 A   |
| RL-2240-3-16                           | 16V C.T. @ 0.15 A    | 8V @ 0.30 A   |
| RL-2240-4-16                           | 16V C.T. @ 0.40 A    | 8V @ 0.80 A   |
| RL-2240-5-16                           | 16V C.T. @ 0.80 A    | 8V @ 1.60 A   |
| RL-2240-6-16                           | 16V C.T. @ 1.25 A    | 8V @ 2.50 A   |
| RL-2240-7-16                           | 16V C.T. @ 2.25 A    | 8V @ 4.50 A   |
| RL-2240-2-20                           | 20V C.T. @ 0.05 A    | 10V @ 0.11 A  |
| RL-2240-3-20                           | 20V C.T. @ 0.12 A    | 10V @ 0.24 A  |
| RL-2240-4-20                           | 20V C.T. @ 0.30 A    | 10V @ 0.60 A  |
| RL-2240-5-20                           | 20V C.T. @ 0.60 A    | 10V @ 1.20 A  |
| RL-2240-6-20                           | 20V C.T. @ 1.00 A    | 10V @ 2.00 A  |
| RL-2240-7-20                           | 20V C.T. @ 1.80 A    | 10V @ 3.60 A  |
| RL-2240-2-24                           | 24V C.T. @ 0.045 A   | 12V @ 0.09 A  |
| RL-2240-3-24                           | 24V C.T. @ 0.10 A    | 12V @ 0.20 A  |
| RL-2240-4-24                           | 24V C.T. @ 0.25 A    | 12V @ 0.50 A  |
| RL-2240-5-24                           | 24V C.T. @ 0.50 A    | 12V @ 1.00 A  |
| RL-2240-6-24                           | 24V C.T. @ 0.80 A    | 12V @ 1.60 A  |
| RL-2240-7-24                           | 24V C.T. @ 1.50 A    | 12V @ 3.00 A  |
| RL-2240-2-28                           | 28V C.T. @ 0.04 A    | 14V @ 0.08 A  |
| RL-2240-3-28                           | 28V C.T. @ 0.085 A   | 14V @ 0.17 A  |
| RL-2240-4-28                           | 28V C.T. @ 0.20 A    | 14V @ 0.40 A  |
| RL-2240-5-28                           | 28V C.T. @ 0.42 A    | 14V @ 0.84 A  |
| RL-2240-6-28                           | 28V C.T. @ 0.70 A    | 14V @ 1.40 A  |
| RL-2240-7-28                           | 28V C.T. @ 1.30 A    | 14V @ 2.60 A  |
| RL-2240-2-36                           | 36V C.T. @ 0.03 A    | 18V @ 0.06 A  |
| RL-2240-3-36                           | 36V C.T. @ 0.065 A   | 18V @ 0.13 A  |
| RL-2240-4-36                           | 36V C.T. @ 0.17 A    | 18V @ 0.34 A  |
| RL-2240-5-36                           | 36V C.T. @ 0.35 A    | 18V @ 0.70 A  |
| RL-2240-6-36                           | 36V C.T. @ 0.55 A    | 18V @ 1.10 A  |
| RL-2240-7-36                           | 36V C.T. @ 1.00 A    | 18V @ 1.00 A  |

RL-2240 TABLE CONTINUES ON FOLLOWING PAGE

## NOTES:

1. ELECTRICAL SPECIFICATIONS MEASURED AT 25°C



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# RL-2240

| Renco Part Number<br>Single 115V 6 Pin | SECONDARY RMS RATING |               |
|----------------------------------------|----------------------|---------------|
|                                        | Series               | Parallel      |
| RL-2240-2-48                           | 48V C.T. @ 0.023 A   | 24V @ 0.046 A |
| RL-2240-3-48                           | 48V C.T. @ 0.05 A    | 24V @ 0.10 A  |
| RL-2240-4-48                           | 48V C.T. @ 0.125 A   | 24V @ 0.25 A  |
| RL-2240-5-48                           | 48V C.T. @ 0.25 A    | 24V @ 0.50 A  |
| RL-2240-6-48                           | 48V C.T. @ 0.40 A    | 24V @ 0.80 A  |
| RL-2240-7-48                           | 48V C.T. @ 0.75 A    | 24V @ 1.50 A  |
| RL-2240-2-56                           | 56V C.T. @ 0.02 A    | 28V @ 0.042 A |
| RL-2240-3-56                           | 56V C.T. @ 0.045 A   | 28V @ 0.09 A  |
| RL-2240-4-56                           | 56V C.T. @ 0.11 A    | 28V @ 0.22 A  |
| RL-2240-5-56                           | 56V C.T. @ 0.22 A    | 28V @ 0.44 A  |
| RL-2240-6-56                           | 56V C.T. @ 0.35 A    | 28V @ 0.70 A  |
| RL-2240-7-56                           | 56V C.T. @ 0.65 A    | 28V @ 1.30 A  |
| RL-2240-2-120                          | 120V C.T. @ 0.01 A   | 60V @ 0.02 A  |
| RL-2240-3-120                          | 120V C.T. @ 0.02 A   | 60V @ 0.04 A  |
| RL-2240-4-120                          | 120V C.T. @ 0.05 A   | 60V @ 0.10 A  |
| RL-2240-5-120                          | 120V C.T. @ 0.10 A   | 60V @ 0.20 A  |
| RL-2240-6-120                          | 120V C.T. @ 0.16 A   | 60V @ 0.32 A  |
| RL-2240-7-120                          | 120V C.T. @ 0.30 A   | 60V @ 0.60 A  |

## NOTES:

1. ELECTRICAL SPECIFICATIONS MEASURED AT 25°C

| PART NUMBER | PART WEIGHT      |
|-------------|------------------|
| RL-2240-2   | 68.0g (2.40oz)   |
| RL-2240-3   | 107.0g (3.77oz)  |
| RL-2240-4   | 174.0g (6.14oz)  |
| RL-2240-5   | 291.0g (10.27oz) |
| RL-2240-6   | 367.0g (12.95oz) |
| RL-2240-7   | 514.0g (18.13oz) |

| PART NUMBER | VA | SIZE | OPTIONAL MTG SCREW NUT |
|-------------|----|------|------------------------|
| RL-2240     | 2  | 1.1  | NONE                   |
| RL-2240     | 3  | 2.4  | NONE                   |
| RL-2240     | 4  | 6    | 4-40 NYLON             |
| RL-2240     | 5  | 12   | 4-40 NYLON             |
| RL-2240     | 6  | 20   | 4-40 NYLON             |
| RL-2240     | 7  | 36   | *                      |

\* SIZE 7 HAS 4 MOUNTING HOLES ON  
2.1875 (55.56) X 1.75 (44.45) CENTERS  
FOR A #6 SCREW. NEED NOT BE NYLON.

