



# 600 series 15 Amp Sensitive **PC Board Relay**

**FII** File E38802 (File LR48569)

Users should thoroughly review the technical data before selecting a product part number. It is recommended that users also seek out the pertinent approvals files of the agencies/laboratories and review them to ensure the product meets the requirements for a given application.

#### **Features**

- · Low power sensitive coil.
- 1 Form A, 1 Form B and 1 Form C contact arrangements.
- Various contact materials and types for ratings to 15 amps.
- Coil assembly rated 130°C, 94V-O.
- Applications include sensor and timer controls, emergency lighting, instrmentation, alarm systems, smoke and fire detectors, business equipment and vending machines.

#### **Contact Data**

Arrangements: 1 Form A (SPST-NO), 1 Form B (SPST-NC) and 1 Form C

Material and Type: Gold-silver crossbar, silver-cadmium crossbar, palladium crossbar, gold-flashed silver cadmium, silver sadmium oxide, find silver, gold-flashed coin silver.

Expected Mechanical Life: 10 million operations, minimum.

Expected Electrical Life: 100,000 operations, minimum, at rated load.

## UL/CSA Ratings @ 25°C

Code	Contact Material	Rating
В	Au Flashed AgCd	75VA@24VAC Pilot Duty§ 1A@120VAC General Purpose 1.5A@50VDC Resistive 600W@277VAC Gen'l. Purpose SPST-NO Only 240W@277VAC Gen'l. Purpose SPST-NC Only 480VA@277VAC Pilot Duty SPDT Only 480VA@Ballast SPDT Only 1/10 HP@120VAC
G	Au Ag	3A@28VDC Resistive 125VA@120VAC Pilot Duty§ 1/8 HP@120/240 VAC
Н	AgCdO	15A@150VAC Inductive 0.4 PF NO Only 10A@277VAC Resistive 15A@28VDC Resistive TV5@NO Contacts TV2@NC Contacts 600W@277VAC Tungsten SPDT-NO Only 240W@277VAC Tungsten SPDT-NC Only 480VA@277VAC Pilot Duty SPDT Only § 480VA@277VAC Ballast SPDT Only 1/3 HP@120/240VAC NO 1/6 HP@120/240VAC NC
K	Au Flashed Coin Ag	5A@240VAC Resistive 5A@28VDC 125VA@240VAC Pilot Duty § 125VA@125VAC Pilot Duty §
R	Fine Ag	15A@150VAC Resistive 15A@28VDC Resistive 10A@277VAC Resistive 480VA@240VAC Pilot Duty TV2@NC Contacts TV4@NO Contacts 480W@120VAC Tungsten NO 240W@120VAC Tungsten NC
S	Ag Cd	3A@240VAC Resistive 3A@28VDC Resistive
V	Palladium	2A@28VDC Resistive

Dimensions are in inches over (millimeters) unless otherwise

specified.

§ Only when Code Y Electrical Spacing is specified.

# Coil Data @ 25°C

Rated Voltage: 3 to 48VDC.

Maximum Voltage @ 85°C: 120% of Rated Voltage.

Between Open Contacts: 500VAC, 60 Hz., 2 seconds.

Between Coil and Contacts: 1,000VAC, 60 Hz., 2 seconds.

Nominal Power @ 25°C: 110mW for 3A and 5A rated models;

240mW for 15A rated models.

Maximum Power @ 25°C: 1W.

**Initial Dielectric Strength** 

Duty Cycle: Continuous.

Initial Insulation Resistance: 10,000 megohms, min., at 25°C, 500VDC

and 50% rel. humidity.

#### Coil Data @ 25°C

Nominal Voltage	DC Resistance in Ohms ±10%		Must Operate Voltage	Must Release Voltage
VDC	3 A & 5A Types	15A Types	VDC	VDC
3	82	38	2.25	0.3
6	327	150	4.5	0.6
9	736	338	6.75	0.9
12	1,309	600	9.0	1.2
18	2,945	1,350	13.5	1.8
24	5,236	2,400	18.0	2.4
28	7,127	3,267	21.0	2.8
48	20,945	9,600	36.0	4.8

### Operate Data @ 25°C

Must Operate Voltage: 75% of nominal. Must Release Voltage: 10% of nominal.

Operate Time: 10 ms, typ. Release Time: 10 ms, typ.

#### **Environmental Data**

Temperature Range:

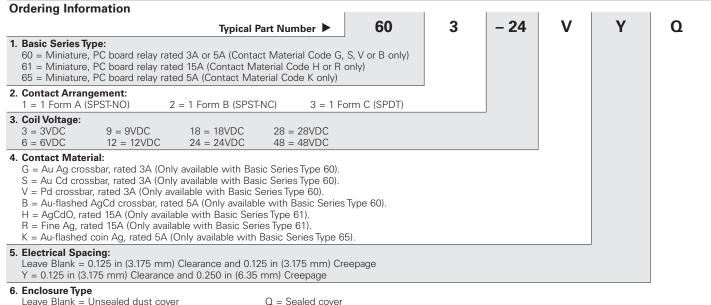
Storage: -55°C to +85°C. Operating: -55°C to +85°C.

#### **Mechanical Data**

Termination: Printed circuit terminals.

Enclosures: Unsealed dust cover or sealed plastic case.

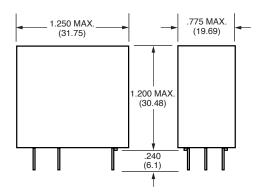
Weight: 1.6 oz. (45g) approximately.



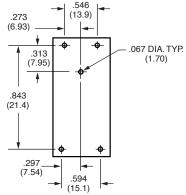
Our authorized distributors are more likely to stock the following items for immediate delivery.

None at present.

# **Outline Dimensions**



# PC Board Layout (Bottom View)



 $\textbf{Note:} \ \textbf{On single throw models, only necessary terminals are present.}$ 

# 

Note: On single throw models, only necessary terminals are present.