



Long-life Half-size Industrial Relay

Type 3SCV (2PDT)

Features

- 100,000,000 operations at low-level
- Hermetic seal

Description

The 3SCV is an exceptionally long life relay for low level applications which is designed for industrial applications such as business machines and computer peripheral equipment. The design is such that the phenomenon of sticking contacts is all but eliminated. Because of its low contact resistance and its ability to handle overloads the 3SCV relay is ideally suited for applications which have previously required reed devices.

Other Specifications

Contacts:

2 Form C

Contact Resistance:

0.050 ohms;
0.100 ohms after life test

Life:

10⁸-2A 28 volts DC,
115 volts AC (not grounded, resistive)
.5A

Low-level— 100,000,000 operations
— 50 μA at 50 mV Peak AC or DC

Sensitivity:

340 mW

Operate Time:

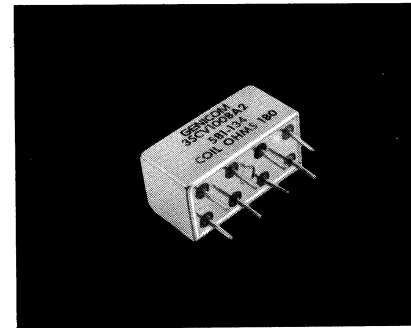
6 ms max.

Release Time:

4 ms max.

Bounce Time:

2 ms max.



Enclosure:

All welded, hermetically sealed

Terminals:

Weldable and solderable

Weight:

.30 oz.

Dielectric Strength:

500 volts rms at sea level

Insulation Resistance:

1,000 megohm min.

Vibration:

10G, 10-2000 Hz

Shock:

50 G 6ms; ½ sine

Temperature:

—14C to +125C

See page 26 for Mounting Forms, Terminals and Circuit Diagrams.

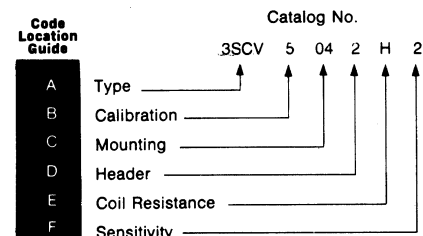
Coil Table (All Values DC)* 340 mW Sensitivity: (Code 1)

| Coil Code Letter | Coil Resistance at 25C (ohms) | Voltage Calibrated, CODE: 5 | | | |
|------------------|-------------------------------|-----------------------------|------------------------------|------------------------------|-----|
| | | Suggested Source Volts† | Maximum Operate Volts at 25C | Release Voltage Range at 25C | |
| | | | | Max | Min |
| A | 47 ± 10% | 4.8-7 | 3.9 | 2.7 | .43 |
| B | 75 ± 10% | 6.1-9 | 4.9 | 3.4 | .5 |
| C | 120 ± 10% | 7.7-12 | 6.3 | 4.4 | .69 |
| D | 180 ± 10% | 9.5-15 | 7.7 | 5.4 | .85 |
| E | 310 ± 10% | 12.5-20 | 10.1 | 7.0 | 1.1 |
| F | 440 ± 10% | 15.0-23 | 12.0 | 8.4 | 1.3 |
| H | 700 ± 10% | 20.0-30 | 15.5 | 10.9 | 1.7 |
| K | 1030 ± 10% | 24.0-35 | 18.5 | 12.9 | 2.0 |
| L | 1620 ± 10% | 30.0-44 | 23.1 | 16.2 | 2.5 |
| M | 2640 ± 10% | 39.0-56 | 29.5 | 20.68 | 3.2 |

ORDERING INSTRUCTIONS

Catalog-selected Relays: The catalog number is derived by choosing the proper CODE for each of the six relay characteristics in the order in which the codes are listed. Use the location guide (letters in vertical red columns) to find each CODE easily.

Example: The relay selected in this example is a 2PDT half-size relay, voltage calibrated, two-hole side bracket mounting, solder hook header, 700 ohms coil resistance, and 100 mW sensitivity. By choosing the proper code for each of these relay characteristics, the catalog number is identified as 3SAV5042H2. The letter R following sensitivity code indicates relay received 5000 operation miss-test. Ex. 3SAV5042H2R.



Code Location Guide

A

F

B

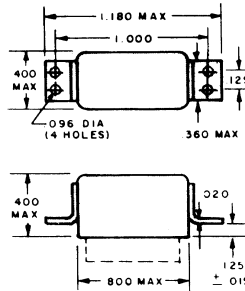
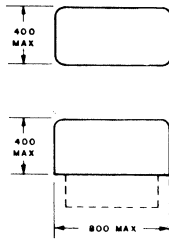
E

Mounting Forms (3SCV)

No Mount

| |
|---------------|
| Mounting Code |
| 00 |

* Assumes relay held securely by potting or other means.

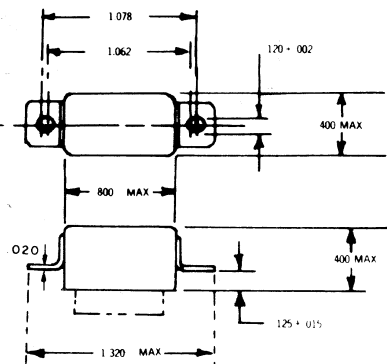


All dimensions in inches

| TOLERANCES | |
|--|--------|
| (Unless otherwise specified) Hundredths | ±0.020 |
| Thousandths | ±0.005 |

Four-hole End Bracket

| |
|---------------|
| Mounting Code |
| 01 |

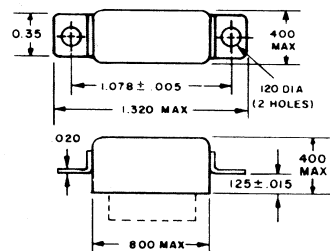
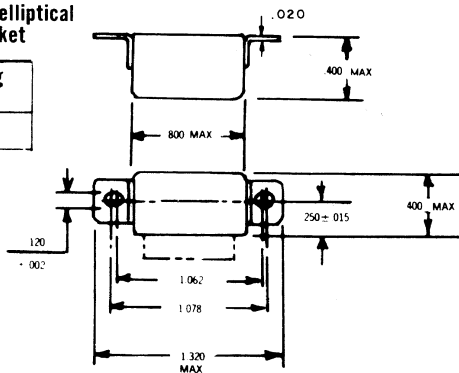


Two-hole elliptical END bracket

| |
|---------------|
| Mounting Code |
| 53 |

Two-hole elliptical Side Bracket

| |
|---------------|
| Mounting Code |
| 54 |

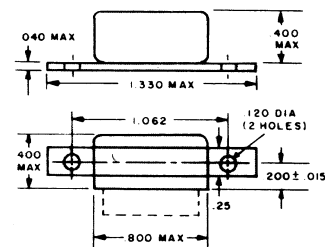


Two-hole End Bracket

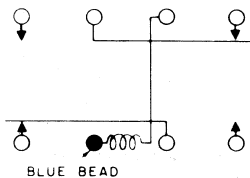
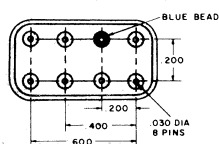
| |
|---------------|
| Mounting Code |
| 13 |

Two-hole Side Bracket

| |
|---------------|
| Mounting Code |
| 04 |



Header and Connection Diagrams



Header Types

| Type | Z Dim. | Header Code |
|-----------------------------------|--------|-------------|
| Solder hook | 0.16 | 2 |
| Straight pin (socket or PCB type) | 0.19 | 4 |

