

## V23061 series

### 15 Amp Miniature, PC Board Relay



#### Features

- 1 Form A (SPST-NO) and 1 Form C (SPDT).
- 15 A rated current.
- Low profile : 15mm height.
- Sensitive coil 230mW.
- 4kV coil-to-contact insulation.
- Meets VDE 0110 - Insulation Group C (250V)
- Meets VDE 0435 Part 201 - High current applications.

#### Contact Data @ 20°C

**Arrangements:** 1 Form A (SPST-NC), 1 Form C (SPDT).  
**Material:** AgCdO, AgNi0.15 with gold flash.  
**Max. Switching Rate:** 20 ops./sec.  
**Expected Mechanical Life:** 20 million operations.  
**Expected Electrical Life:** 8A @ 220VAC resistive, 100,000 ops.  
**Max. Switched Voltage:** AC: 380V.  
 DC: 300V.  
**Max. Switched Current:** 15A, AC resistive.  
 8A, DC resistive (see Fig. 1).  
**Max. Switched Power:** 2,000VA, 270W (see Fig. 1).

#### Initial Dielectric Strength

**Between Open Contacts:** 1,000VAC, (1 minute).  
**Between Contacts and Coil:** 4,000VAC, (1 minute).  
**Creepage/Clearance Coil-to-Contact:** Min. 8mm.

#### Initial Insulation Resistance

**Between Mutually Insulated Conductors:** 1,000Mohm @ 500VDC.

#### Environmental Data

**Temperature Range:**  
**Operating:** -40°C to +70°C.  
**Operating Humidity:** 20 to 85% RH.

#### Mechanical Data

**Termination:** Printed circuit terminals.  
**Enclosure:** Plastic sealed case.  
**Weight:** 10.5g approximately.

#### Ordering Information

Typical Part Number ► **V23061 B 1 005 A401**

**1. Basic Series:**  
 V23061 = PC board relay.

**2. Termination:**  
 A = 1 Form A (SPST-NO)  
 B = 1 Form C (SPDT)

**3. Version:**  
 1 = Standard.

**4. Coil Input:**  
 002 = 5VDC      005 = 12VDC      008 = 36VDC  
 003 = 6VDC      006 = 18VDC      009 = 48VDC  
 004 = 9VDC      007 = 24VDC      010 = 60VDC

**5. Contact Material:**  
 A401 = AgCdO, 1 Form C (SPDT).  
 A402 = AgCdO, 1 Form A (SPST-NO).  
 A501 = AgNi0.15 with gold flash, 1 Form C (SPDT).  
 A502 = AgNi0.15 with gold flash, 1 Form A (SPST-NO).

#### Coil Data @ 20°C

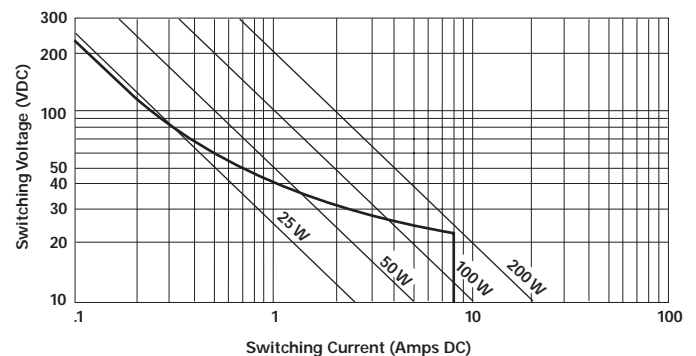
**Voltage:** 5 to 60VDC.  
**Nominal Power:** 230 mW typical.

V23061				
Rated Coil Voltage (VDC)	Nominal Current (mA)	Coil Resistance (ohms) ± 10%	Must Operate Voltage (VDC)	Must Release Voltage (VDC)
5	42.4	118	3.6	0.5
6	36.4	165	4.3	0.6
9	24.7	365	6.4	0.9
12	18.5	650	8.5	1.2
18	12.4	1,455	12.8	1.8
24	10.6	2,270	17.2	2.4
36	6.4	5,640	25.4	3.6
48	5.5	8,790	34.5	4.8
60	4.0	15,265	42.8	6.0

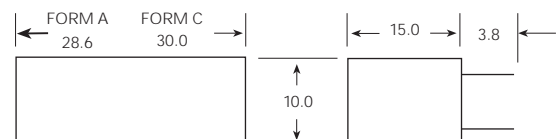
#### Operate Data @ 20°C

**Must Operate Voltage:** 70% of nominal voltage or less.  
**Must Release Voltage:** 10% of nominal voltage or more.  
**Operate Time:** 6 ms typical at nominal voltage.  
**Release Time:** 2.5 ms typical at nominal voltage.

Figure 1 - DC Switching Load Limit Curve



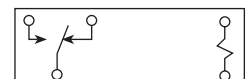
#### Outline Dimensions



#### Wiring Diagrams (Bottom View)

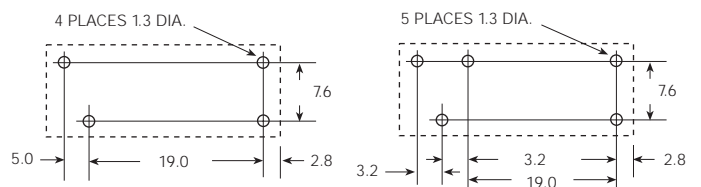


1 Form A



1 Form C

#### PC Board Layout (Bottom View)



1 Form A

1 Form C