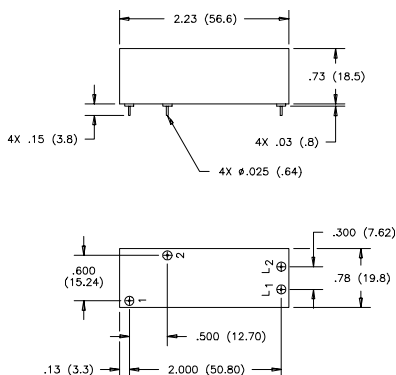


Kilovac PD5 Make & Break Load Switching

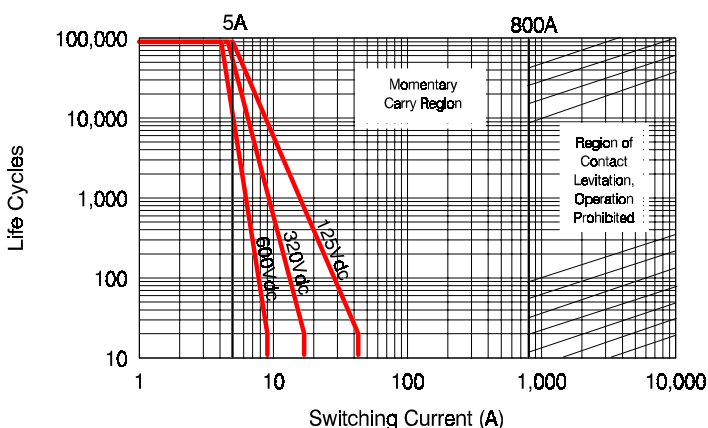


PCB Mount Version shown above is applicable to both PD5 and PD10.
Refer to PD10 for Panel Mount Dimensions.

Features:

- Vacuum dielectric for power switching
- Excellent for control applications
- PCB and panel mountings
- Rugged design for the most demanding applications, including seismic shock
- Small size and weight
- Low power consumption
- No heat sinks required
- Vacuum-sealed; can operate in explosive and harsh environments
- 2000V isolation across open contacts
- Meets requirements of SAE ARD 50031

CONTACT RATINGS*



* Based on extrapolated data. Since each application is unique, user is encouraged to verify rating in actual application. The load terminals should always be connected as follows: Common Contact (A2) positive; Other Contact negative.

PRODUCT SPECIFICATIONS

| Part Number | UNIT | PD5A | PD5B |
|---|----------|------------|------------|
| Contact Arrangement | | SPST-NO | SPST-NC |
| Contact Form | | A** | B** |
| Rated Resistive Load @ 320 Vdc | A | 5 | 5 |
| Continuous Current Carry, Max. @ 85°C | A | 15 | 15 |
| Overload @ 320 Vdc (make/break) | A | 20 | 20 |
| Life, (Mechanical/Rated Load) | cycles | 500k/50k | 500k/50k |
| Contact Resistance, Max., end of life | ohms | 0.010 | 0.010 |
| Dielectric at Sea Level | | | |
| Power Terminals to Coil & all other points | Vrms | 1,800 | 1,800 |
| Shock, 11ms 1/2 Sine (peak) | G's peak | 25 | 25 |
| Vibration, Sinusoidal (55-2000 Hz, peak) | G's | 5 | 5 |
| Operating Ambient Temperature Range | °C | -40 to +85 | -40 to +85 |
| Operate Time, Max., including Bounce @ 25°C | ms | 10 | 10 |
| Release Time, Max., including Bounce @ 25°C | ms | 10 | 10 |
| Insulation Resistance @ 500 Vdc, Min. | | | |
| Initial/ End of Life | Mohm | 100/50 | 100/50 |
| Weight, Nominal | g (lb) | 57 (.125) | 57 (.125) |

** Contact factory for availability of other contact forms

COIL DATA

| Nominal, Volts dc | 12 | 24 | 125 | Unit |
|------------------------|-----|-----|------|------|
| Maximum Coil Voltage | 14 | 28 | 130 | Vdc |
| Pickup, Max. @ 85°C | 8 | 16 | 80 | |
| Hold, Min. @ 85°C | 3.3 | 10 | 33 | |
| Drop-Out, Min. @ -40°C | .5 | 1 | 5 | |
| Coil Resistance (±10%) | 70 | 290 | 4700 | Ohms |

Ratings listed are for 25°C, sea level conditions

PART NUMBER SELECTION

Sample Part No. PD5 **A** **2** **3** **5**

Contact Form
 A = SPST-NO
 B = SPST-NC
 C = SPDT (PCB ONLY)

Coil Voltage
 2 = 12 Vdc, PCB Version
 3 = 24 Vdc, PCB Version
 5 = 125 Vdc, PCB Version
 A = 12 Vdc, Panel Mount Version
 B = 24 Vdc, Panel Mount Version
 C = 125 Vdc, Panel Mount Version

Power Terminals
 3 = PCB Solder Connection
 5 = Stud Terminal, Panel Mount

Mounting
 5 = PCB Mount
 7 = Panel Mount