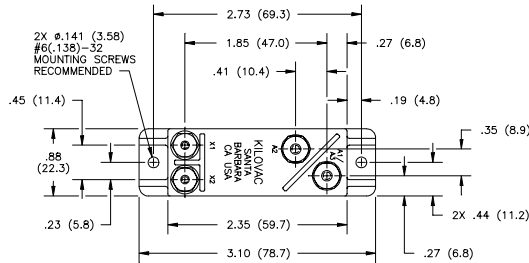


**Kilovac PD10 Make & Break Load Switching**

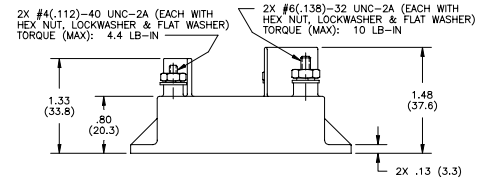
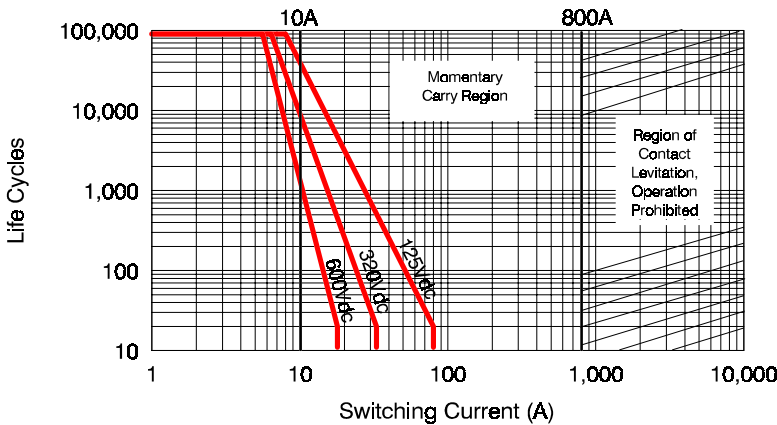


**Features:**

- 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
- Vacuum dielectric for power switching

Panel Mount Version shown above is applicable to both PD5 and PD10. For PD10, the two power terminals are .064" (1.63) diameter. Refer to PD5 for PCB Mount Dimensions.

**CONTACT RATINGS\***



**ESTIMATED SHORT TERM CURRENT**

| Duration(Sec.) | Current (Amps) |
|----------------|----------------|
| 100            | 140            |
| 60             | 150            |
| 10             | 200            |
| 1              | 600            |

\* 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     | PD10A      | PD10B      | PD10P         |
|---|----------|------------|------------|---------------|
| Contact Arrangement .....                         |          | SPST-NO    | SPST-NC    | SPST-Latching |
| Contact Form .....                                |          | A**        | B**        | P**           |
| Rated Resistive Load @ 320 Vdc .....              | A        | 10         | 10         | 30            |
| Continuous Current Carry, Max. @ 85°C .....       | A        | 15         | 15         | 10            |
| Overload @ 320 Vdc (make/break) .....             | A        | 20         | 20         | 20            |
| Life, (Mechanical/Rated Load) .....               | cycles   | 500k/10k   | 500k/10k   | 7,000         |
| Contact Resistance, Max., end of life .....       | ohms     | 0.010      | 0.010      | 0.030         |
| Dielectric at Sea Level .....                     |          |            |            |               |
| Power Terminals to Coil & all other points .....  | Vrms     | 1,800      | 1,800      | 2,000         |
| Shock, 11ms 1/2 Sine (peak) .....                 | G's Peak | 25         | 25         | 25            |
| Vibration, Sinusoidal (55-2000 Hz, peak) .....    | G's      | 5          | 5          | 5             |
| Operating Ambient Temperature Range .....         | °C       | -40 to +85 | -40 to +85 | -35 to +65    |
| Operate Time, Max., including Bounce @ 25°C ..... | ms       | 10         | 10         | 6             |
| Release Time, Max., including Bounce @ 25°C ..... | ms       | 10         | 10         | 6             |
| Insulation Resistance @ 500 Vdc, Min. ....        |          |            |            |               |
| Initial/ End of Life .....                        | Mohm     | 100/50     | 100/50     | 100/50        |
| Weight, Nominal .....                             | g (lb)   | 71(.156)   | 71(.156)   | 71(.156)      |

\*\* Contact factory for the 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. PD10

Contact Form  
 A = SPST-NO  
 B = SPST-NC  
 P = SPST-Latching

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