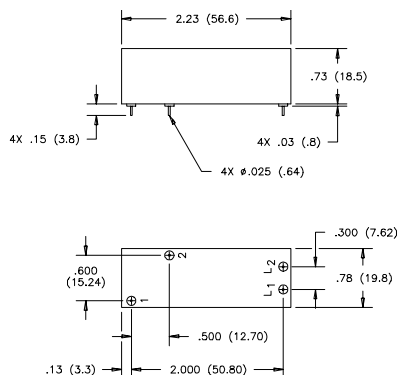


**Kilovac PD5 Make & Break Load Switching**

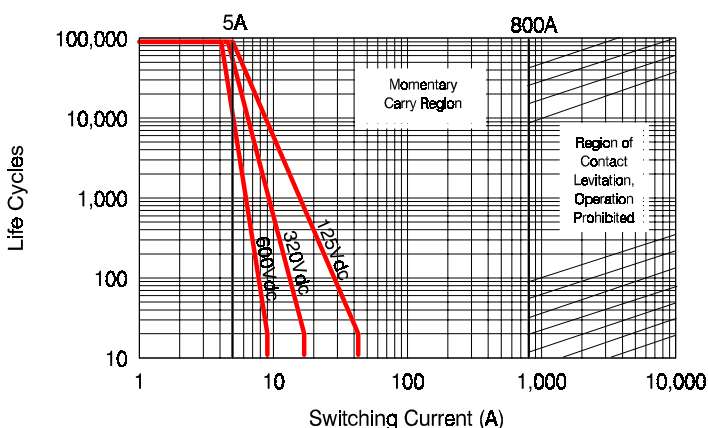


PCB Mount Version shown above is applicable to both PD5 and PD10.  
Refer to PD10 for Panel Mount Dimensions.

**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