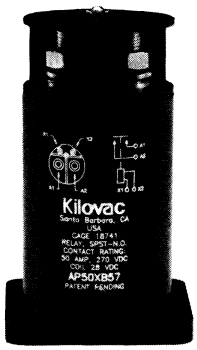
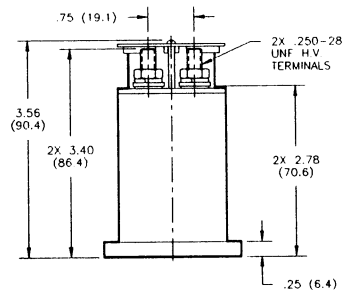
# KILOVAC AP50X – 50 Amps



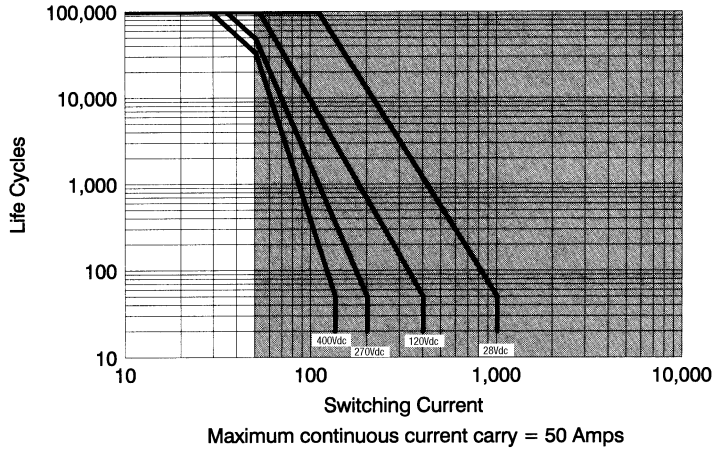




Note: Dimensions are expressed as inches (mm).

## Features:

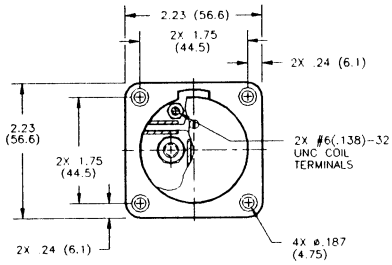
- 50 A carry, 200A overload @ 270 Vdc
- Smallest, lightest DC contactor
- Ideal for circuit protection and control
- Versatile power, voltage, and current operating range
- Bi-directional power switching
- Fast operate and release time
- Low power consumption
- Vacuum-sealed contacts; can operate in harsh environments
- Qualified to SAE ARD 50031 270 Vdc General Relay Spec.
- Space-rated version built in accordance with customers SCD.

## CONTACT RATINGS*




Maximum continuous current carry = 50 Amps

* Based on data extrapolated from qualification at 270 Vdc with resistive load. Since each application is unique, user is encouraged to verify rating in actual application




## PRODUCT SPECIFICATIONS

| Part Number | UNIT | AP50X |
|---|---|---|
| Contact Arrangement | | SPST-NO |
| Contact Form | | X |
| Rated Resistive Load @ 270 Vdc | A | 50 |
| Continuous Current Carry, Max. | | 50 |
| Overload @ 270 Vdc | | 200 |
| Contact Resistance, Max. | mohm | 4 |
| Dielectric at Sea Level | | |
| Coil to Power Terminals | Vrms | 1,800 |
| All Other Points | | 2,000 |
| Shock, 11ms 1/2 Sine (peak) | g | 30 |
| Vibration, Sinusoidal (55-2000 Hz, peak) | | 20 |
| Operating Ambient Temperature Range | ° C | -55 to +85 |
| Load Life, @ 270 Vdc, Min. | cycles | 50,000 |
| Operate Time, Excluding Bounce, Max. | ms | 27 |
| Release Time, Max. | | 10 |
| Bounce Time, Max. | | 8 |
| Insulation Resistance @ 500 Vdc, Min. | | |
| Initial | Mohm | 100 |
| End of Life | | 50 |
| Weight, Nominal | gram (oz) | 454 (16) |

## COIL DATA

| Volts, Nominal | 12 | 28 | 120 | Unit |
|---|---|---|---|---|
| Pickup, Max. | 9.9 | 23 | 99 | Vdc |
| Dropout, Min. | .4 | 1.0 | 4.0 | |
| Coil Resistance ( ±10%) | 19 | 103 | 1890 | Ohms |
| Energy, Magnetic, Max. | .05 | .05 | .05 | J |

Coil resistance rated at 25°C

## PART NUMBER SELECTION

Sample Part No. **AP50** | X | B | 5 | 7 |

Contact Form
- X = SPST-NO Double Make

Coil Voltage
- A = 12Vdc, Stud Terminals
- B = 28Vdc, Stud Terminals
- C = 120Vdc, Stud Terminals

Power Terminals
- 5 = Stud Terminals

Mounting
- 7 = Panel Mount