## Kilovac HC-1 *No Load Switching*
## Kilovac HC-3 *Make & Break Load Switching*




**Features:**

**HC-1**
- Widely used for RF applications
- Vacuum dielectric for low leakage current applications
- Copper contacts for high current capability
- Not designed for power switching
- Meets requirements of MIL-R-83725
- QPL version available, M83725/5-001

**HC-3**
- Tungsten contacts for long life when power switching
- Vacuum dielectric for power switching low current loads

## Kilovac HC-5 *Make Only Load Switching*




**Features:**
- Gas-filled for "make only" power switching
- SF-6 gas filled for capacitive discharge applications

**PRODUCT SPECIFICATIONS**

| Part Number | Unit | HC-1 | HC-3 | HC-5 |
|---|---|---|---|---|
| Contact Arrangement | | SPDT | SPDT | SPDT |
| Contact Form | | C | C | C |
| Test Voltage (dc or 60Hz) | kV Peak | 5 | 5 | 5 |
| Rated Operating Voltage | kV Peak | | | |
| dc or 60 Hz | | 3.5 | 3.5 | 3.5 |
| 2.5 MHz | | 2.5 | - | - |
| 16 MHz | | 2 | - | - |
| 32 MHz | | 1.5 | - | - |
| Continuous Carry Current , Maximum | Amps | | | |
| dc or 60 Hz | | 25 | 18 | 8 |
| 2.5 MHz | | 14 | - | - |
| 16 MHz | | 9 | - | - |
| 32 MHz | | 7 | - | - |
| Coil Hi-Pot (V RMS, 60 Hz) | | 500 | 500 | 500 |
| Contact Capacitance | pF | | | |
| Between Open Contacts | | 2 | - | - |
| Open Contacts to Ground | | 2.5 | - | - |
| Contact Resistance, Maximum | Ohms | 0.01 | 0.02 | 0.50* |
| Operate Time, Maximum | ms | 6 | 6 | 6 |
| Release Time, Maximum | ms | 6 | 6 | 6 |
| Shock, 11 ms 1/2 Sine | G's Peak | 50 | 50 | 50 |
| Vibration, 10 G's Peak | Hz | 55-2000 | 55-2000 | 55-2000 |
| Operating Ambient Temperature Range | °C | -55 to +125 | -55 to +125 | -55 to +125 |
| Mechanical Life (Operations x $10^6$) | cycles | 2 | 2 | 1 |
| Weight, Nominal | oz | 1 | 1 | 1 |

* Contact resistance for gas-filled relays is measured at 28 Vdc, 1 amp

**COIL DATA**

| Nominal, Volts dc | 12 | 26.5 | 115 |
|---|---|---|---|
| Pickup, Volts dc, Maximum | 8 | 16 | 80 |
| Drop-Out, Volts dc | .5 - 5 | 1 - 10 | 5 - 50 |
| Coil Resistance (Ohms ±10%) | 80 | 335 | 6000 |

Ratings listed are for 25°C, sea level conditions

**PART NUMBER SELECTION**

Sample Part No. HC- [1] [/12Vdc]

Model
- 1
- 3
- 5

Coil Voltage
- Blank = 26.5Vdc
- /12Vdc = 12Vdc
- /115Vdc = 115Vdc