CII Technologies advanced control electronic solutions

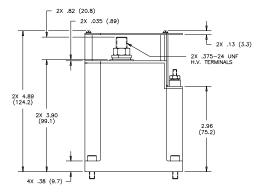
PRE-PRODUCTION

28-1800Vdc

Kilovac PD350X - 500 Amps ("Bubba")

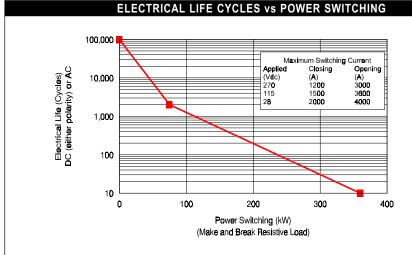
Make & Break Load Switching

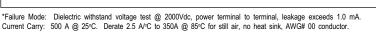




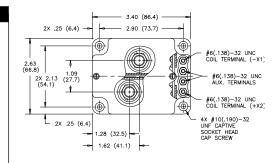
Features:

- 500 A carry, 1300 A make overload, 3000 A break overload, @ 320 Vdc
- Hydrogen dielectric for power switching high current loads
- · Auxiliary Contacts
- Coil Power Economizing 8 W holding
 Versatile power, voltage, and current operating range
- Excellent for safety disconnect and transfer switch applications
- · Ideal for circuit protection and control
- Bi-directional power switching
- Hermetically-sealed contacts; can operate in harsh environments
- · Fast operate and release time
- · Low power consumption
- · Meets requirements of SAE ARD 50031





PRODUCT SPECIFICATIONS UNIT PD350X Part Number Form X Contact Arrangement SPST-NO SPST-NO Auxiliary Contact (28 Vdc, 0.1 A) А TBA* Rated Resistive Load @ 320 Vdc А 500 Continuous Current Carry, Max. @ 50°C Overload @ 320 Vdc (make/break) А 1,300/3,000 cycles see chart above Load Life, @ 320 Vdc, Min. ohms 0 0002 Contact Resistance, Max., end of life Dielectric at Sea Level Power Terminals to Coil & all other points Vrms 1,800 G's Peak 30 Shock, 11ms 1/2 Sine (peak) Vibration, Sinusoidal (55-2000 Hz, peak) G's 5 °C -40 to +85 Operating Ambient Temperature Range Operate Time, including Bounce, Max., 25°C ms 40 Release Time, Max. ms 20 Bounce Time. Max. ms 5 Insulation Resistance @ 500 Vdc, Min. 100/50 Initial/ End of Life Mohm Kg (lb) 1.52 (3.4) Weight, Nominal



Contact Rating Notes:

- 1. Maximum continuous current carry = 500A
 - @ $25^{\circ}C = T_{A}$, derate 5A/°C for higher temp.
- Maximum interrupt power (break only) = 1MW @ 200mH inductance.

COIL DATA			
Volts, Nominal	12	24	Unit
Pickup, Max. @ 65°C	9.9	19.7	Vdc
Hold, Max. @ 65°C	8.5	17	
Dropout, Min. @ -35°C	1.2	2.4	
Coil Power** 25°C			
During Pickup (300ms)	43	43	W
While Holding	8	8	
Energy, Magnetic, Max.***	.26	.26	J

**Two coils are employed for power economizing subsequent to pickup. During pickup both coils operate in parallel drawing 43 Watts momentarily. After pickup, Kilovac's electronic economizing system leaves only the holding coil on, drawing 8 Watts @ 25°C. Economizing system includes transient voltage suppression.

PART NUMBER SELECTION

Sample Part No. PD350 X B 5 7			
Contact Form			
X = SPST-NO, Double Make			
Coil Voltage			
A = 12 Vdc, Stud Terminals			
B = 24 Vdc, Stud Terminals			
Power Terminals			
5 = Stud Terminals			
Mounting —			
7 = Panel Mount, captive bolts			