

AP350X "BUBBA" Contactor 500 Amps

Product Facts

- 500 A carry, 1200 A make, 3000 A break @ 270 Vdc
- Bi-directional power switching
- Auxiliary Contacts
- Built-in coil power economizing — 6 W holding
- Versatile power, voltage, and current operating range
- Excellent for safety disconnect and transfer switch applications
- Suited for circuit protection control
- Hermetically-sealed contacts; can operate in harsh environments
- Designed for main generator loads
- Space-rated version built in accordance with customers SCD
- Meets many requirements of MIL-PRF-32085



Product Specifications

Contact Arrangement with Auxiliary Contact (28 Vdc, 0.1 A) —
Form X — SPST-NO
Form A — SPST-NO

Rated Resistive Load @ 270 Vdc, 85°C — 350 A

Continuous Current Carry, Max., 25°C — 500 A

Overload Current @ 270 Vdc, Max. —

Make (Closed Into) — 1200 A
Break (Open) — 3000 A

Contact Resistance, Max. —
0.2 mohm

Dielectric at Sea Level (< 1mA leakage) —

Open Power Terminal to Terminal — 2,000 Vrms
Closed Power Terminals to All Other Points — 2,000 Vrms

Shock, 11ms, 1/2 Sine (Peak) —
25 g

Vibration, Sinusoidal (55-2000 Hz, Peak) — 10 g

Operating Ambient Temperature Range — -55°C to +85°C

Load Life @ 270 Vdc, Min. —
See graph above

Operate Time @ 25°C —

Close (Includes Bounce), Typ. — 35 ms

Bounce (Occurs When Closing), Max. — 5 ms

Open (Includes Arcing), Max. — 20 ms

Insulation Resistance @ 500 Vdc, Min. —

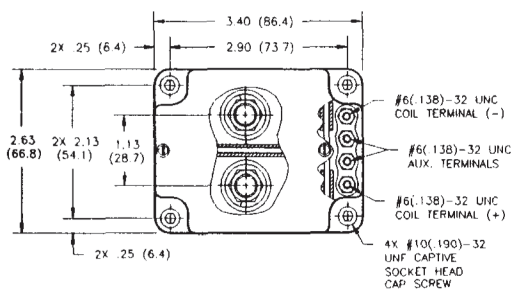
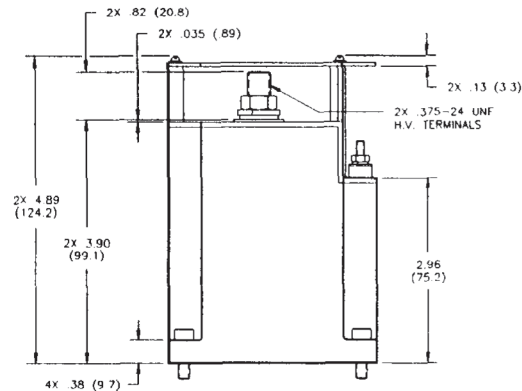
Initial/End of Life — 100 mohm/50 mohm

Weight, Nominal —
3.35 lb (1.52 kg)

Coil Data

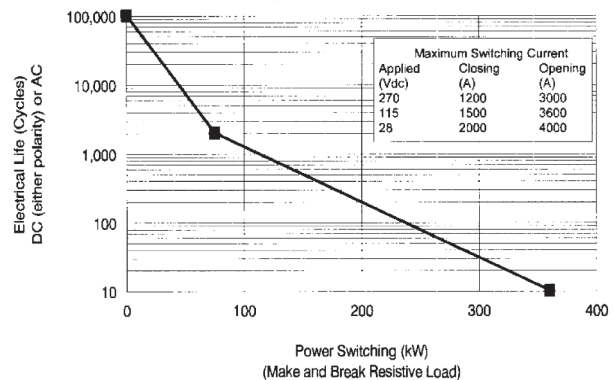
AP350X	
Type Driver	"PWM" Econ.
Voltage, Nominal	28 Vdc
Pickup (Close), Max.	20 Vdc
Dropout (Open), Max.	11 Vdc
Current @ 28 V, 25°C	
Inrush	2.1 A
Holding (Standby)	0.21 A
Inrush Time, Max.	200 ms

For factory-direct application assistance, dial 800-253-4560, ext. 2055, or 805-220-2055.



Electrical Life Cycles vs Power Switching

(Data from 270Vdc Testing*)



*Failure mode: Dielectric withstand voltage test @ 2000 Vdc, power terminal to terminal, leakage exceeds 1.0 A. Current Carry: 500 A @ 25°C. Derate 2.5 A/°C to 350 A @ 85°C for still air, no heat sink, AWG# 00 conductor.

Ordering Information

Sample Part Number ►

AP350 X B 5 7

Series: _____

Contact Form: _____
X = SPST-NO Double Make

Coil Voltage: _____
B = 28 Vdc, Stud Terminals

Power Terminals: _____
5 = Screw Terminals

Mounting: _____
7 = Panel Mount, captive bolts

Refer to EV500 Sales Drawing for complete specifications.

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KILOVAC 270+ Vdc Traditional Contactors