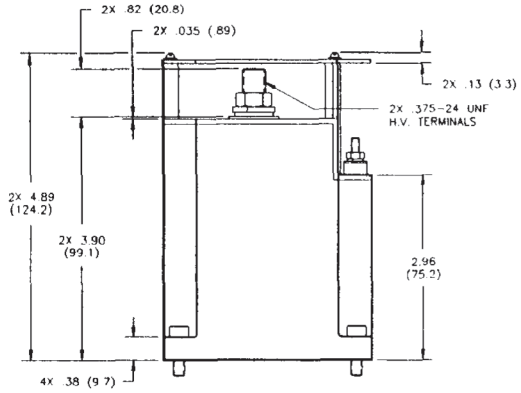
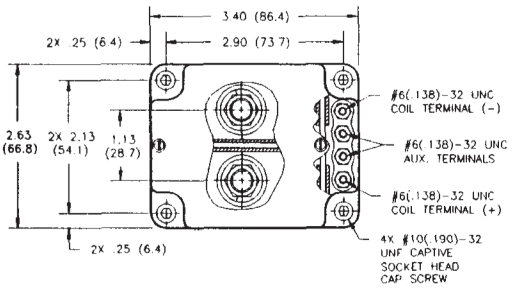
AP350X "BUBBA" Contactor 500 Amps

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

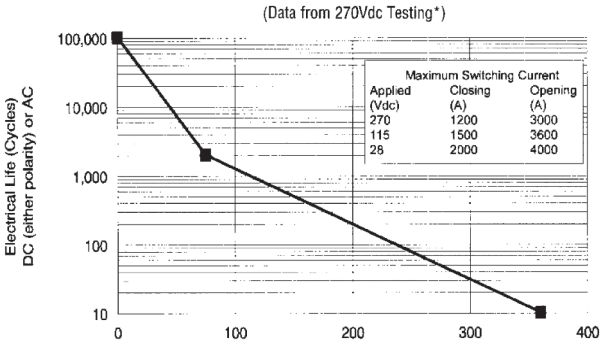
Bounce (Occurs When Closing), Max. — 5 ms

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)

Electrical Life Cycles vs Power Switching



*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.

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.

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.

Catalog 5-1773450-5
Revised 3-13

www.te.com

Dimensions are shown for reference purposes only. Specifications subject to change.

Dimensions are in millimeters unless otherwise specified.

USA: +1 800 522 6752
Asia Pacific: +86 0 400 820 6015
UK: +44 800 267 666

For additional support numbers please visit www.te.com