

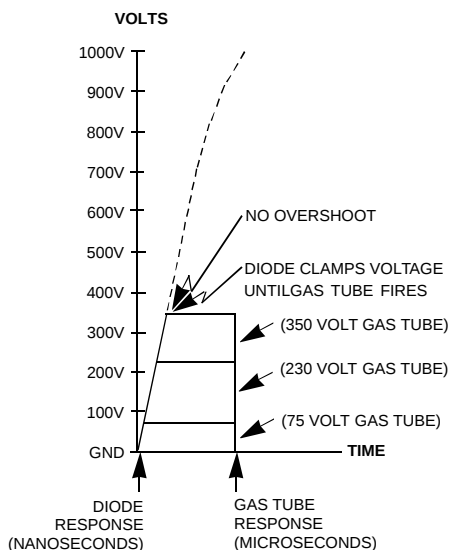
DELTA™ Protector

The Delta™ Protector provides premium, high-speed protection for sensitive communications and data equipment. The module of choice in high lightning areas, the Delta™ offers superior protection from overvoltages and overcurrents preventing costly damage to equipment.

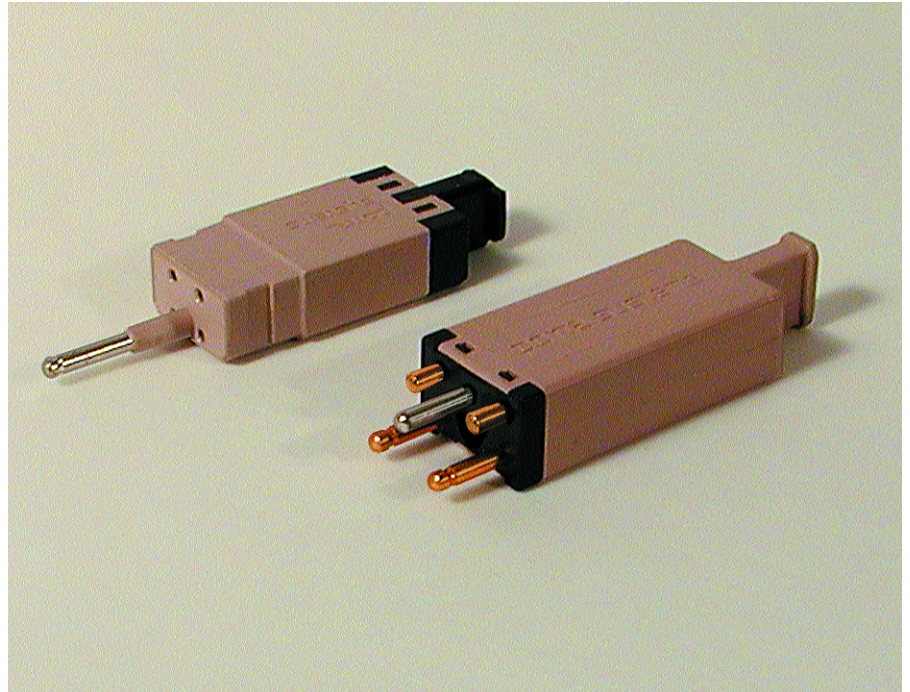
The Delta™ Protector coordinates very high speed diodes with a powerful, three-element gas tube and heat coils. When exposed to high voltage conditions, the diode, with a response time of less than 5 nanoseconds, reacts to clamp the voltage until the gas tube ionizes and shunts the energy to ground.

The 75V module is particularly effective in protecting digital non-ringing switching systems.

PROTECTION INPUT & OUTPUT WAVEFORM



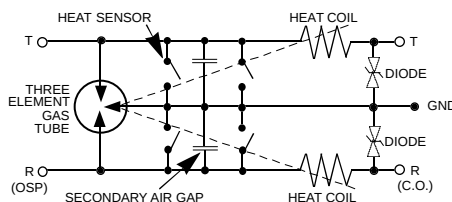
High-Speed, Heavy Duty, Primary/Secondary Line Protection for PBXs and Connection Equipment



Features & Benefits

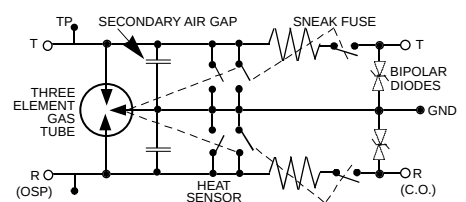
- UL 497 listed for Primary as well as Secondary protection
- Less than 5 nanoseconds response time
- Quality components — high-speed diode, superior 3-element gas tube, and dependable sneak fuse or heat coil
- Reduces service calls and repair costs
- Protects personnel
- Available in single or five-pin configurations
- Five-pin configuration compatible with other manufacturers' equipment
- Available in 75V, 230V, or 350V
- Available with heat coil or sneak fuse

EQUIVALENT CIRCUIT



MODEL95BCDXN DELTA™
PROTECTOR 3-ELEMENT GAS TUBE/HEAT
COIL/SECONDARY AIR GAP/BIPOLAR
DIODES AND TEST POINTS

EQUIVALENT CIRCUIT



MODEL95BCSDXN DELTA™
PROTECTOR 3-ELEMENT GAS TUBE/
SNEAK FUSE/SECONDARY AIR GAP/
BIPOLAR DIODES AND TEST POINTS

DELTA™ PROTECTOR

SPECIFICATIONS:

Electrical

	75 VOLT	230 VOLT	350 VOLT	TESTED AS PER SPECIFICATION REA PE-80
DC Breakdown	63-95V	200-270V	300-370V	2000V/Sec max
Clamping Voltage	144V Max @ 10A	375V Max @ 4A	500V Max @ 3A	IEEE P465.4/D5
Clamping Time	<10 nSec	<10 nSec	<10 nSec	IEEE P465.4/D5
Standoff Voltage	81V	260V	375V	IEEE P465.4/D5
Capacitance	<100 pF	<100 pF	<100 pF	GTS 8345
Rated Peak Pulse Power (1 Millisecond)	1500 W	1500 W	1500 W	IEEE P465.4/D5 (Reference Definition)
Reverse Leakage Current (At Standoff Voltage)	<5 mA	<5 mA	<5 mA	
AC Discharge	180 A RMS*	90 A RMS	90 A RMS	11 Cycles of 60 Hz Waveform
Fail-safe Operation	100 Sec @ 0.5A 50 Sec @ 1.0A 15 Sec @ 5.0A 10 Sec @ 20.0A	100 Sec @ 0.5A 50 Sec @ 1.0A 15 Sec @ 5.0A 10 Sec @ 20.0A	100 Sec @ 0.5A 50 Sec @ 1.0A 15 Sec @ 5.0A 10 Sec @ 20.0A	
Line Series Resistance**	4 ohms max.	4 ohms max.	4 ohms max.	Line in/Line out
Insulation Resistance (Minimum)	100 MW NA	NA 100 MW	NA 100 MW	50 VDC 100 VDC
DC Holdover	52V 260 mA	52V, 260 mA 135V, 200 mA 150V, 140 mA	52V, 260 mA 135V, 200mA 150V, 140mA	150 mSec max to extinguish

*9 cycles of 50 Hz Waveform

** High resistance heat coil available upon request

Operating Temperature: – 13°F to + 149°F (– 25°C to + 65°C)

Heat Coil/Sneak Fuse specifications:

The device will conduct up to 360 mA indefinitely.

The device will short/open in less than 210 Sec. when subjected to 540 mA.

The device will short/open in less than 10 Sec. when subjected to 1A or more.

ORDERING INFORMATION:

CONFIGURATION	TYPE	75 VOLT	230 VOLT	350 VOLT
Single-Pin	Heat Coil Sneak Fuse	95BCDXN-75 95BCSDXN-75	95BCDXN-230 95BCSDXN-230	95BCDXN-350 95BCSDXN-350
Five-Pin	Heat Coil Sneak Fuse	195BCDXN-75 195BCSDXN-75	195BCDXN-230. 195BCSDXN-230	195BCDXN-350 195BCSDXN-350

FEATURES AND SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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