

Porta Systems gas tube modules are dependable plug-in devices that guard sensitive telecommunications systems from dangerous voltage surges. The gas tube utilizes a three-element design. This prevents destructive line-to-line over voltages, protecting PBX's and key systems in a way that conventional two-element gas tubes cannot.

The modules include heat activated fail-safe mechanism that provides additional protection against power crosses. Test points allow easy test access to the outside plant.

FEATURES & BENEFITS

- UL 497 Listed for Primary protection
- Balanced three-electrode design
- Secondary air gap
- Detent position facilitates testing
- Test point contacts
- Fail-safe mechanism
- Heat Coil (on selected models)
- Prevents costly damage to circuitry
- Extends equipment life
- Protects personnel



175BCXN-75



193BCXN-230

ORDERING INFORMATION

Configuration	Type	Generic	75 Volt	230 Volt	400 Volt
Single-Pin	3-Point Protection	-	73BCXN-75	73BCXN-230	73BCXN-400
	5-Point Protection	-	75BCXN-75	75BCXN-230	75BCXN-400
		-	93BCXN-75	93BCXN-230	93BCXN-400
		-	95BCXN-75	95BCXN-230	95BCXN-400
Five-Pin	3-Point Protection	-	173BCXN-75	173BCXN-230	173BCXN-400
	5-Point Protection	3B1E	175BCXN-75	175BCXN-230	175BCXN-400
		-	193BCXN-75	193BCXN-230	193BCXN-400
		4B1E	195BCXN-75	195BCXN-230	195BCXN-400

The models listed above represent our most popular protectors. Contact our sales department for other models not shown. Gold pins available upon request.

Line Protection for Sensitive Voice and Data Equipment

ELECTRICAL SPECIFICATIONS:

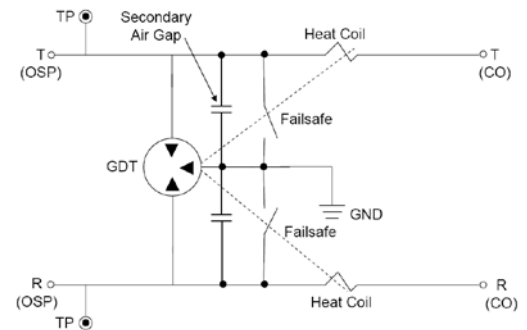
Electrical	73BCXN	93BCXN	73BCXN	93BCXN	73BCXN	93BCXN	Test Parameters
	75BCXN	95BCXN	75BCXN	95BCXN	75BCXN	95BCXN	
	173BCXN	193BCXN	173BCXN	193BCXN	173BCXN	193BCXN	
	175BCXN	195BCXN	175BCXN	195BCXN	175BCXN	195BCXN	
	75 Volt	75 Volt	230 Volt	230 Volt	400 Volt	400 Volt	
DC Breakdown Voltage	63-95V	63-95V	200-275V	200-275V	300-500V	300-500V	2000V/Sec max
Imp. Breakdown Voltage	<700	<700	<800	<800	<1000V	<1000V	100V/μSec max
Secondary Air Gap	<1500V	<1500V	<1500V	<1500V	<1500V	<1500V	100V/μSec max
Capacitance	10 pF	10 pF	<10 pF	<10 pF	<10pF	<10pF	1 MHz, 0 VDC
Fail-safe Operation			100 Sec @ 0.5A 50 Sec @ 1.0A 15 Sec @ 5.0A 10 Sec @20.0A				
Line Series Resistance ¹	NA	4 ohms maximum	NA	4 ohms maximum	NA	4 ohms maximum	Line in/Line Out
Maximum Single Surge	24kA	24kA	24kA	24kA	24kA	24kA	8/20 μSec max
Imp. Life	>400	>400	>400	>400	>400	>400	10/1000μS@1000A
AC Discharge	65A	65A	65A	65A	65A	65A	1 Sec 60Hz ²
Insulation Resistance (minimum)	100MΩ	100MΩ	100MΩ	100MΩ	100MΩ	100MΩ	50 VDC 100VDC
DC Holdover							
52V	260mA	260mA	260mA	260mA	260mA	260mA	<150 mSec max. to extinguish
135V	NA	NA	200mA	200mA	200mA	200mA	
150V	NA	NA	140mA	140mA	140mA	140mA	

¹High resistance heat coil available upon request.
²Total current through center electrode.

EQUIVALENT CIRCUIT:

Operating Temperature: -13° to 149°F (-25° 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.



For more information contact:
 6851 Jericho Turnpike, Suite 170
 Syosset, NY 11791 USA
 Tel. 1-516-364-9300 : Fx. 1.516.682.4636
 sales@portasystems.com (Americas)
 sales@portasystems.co.uk (Europe)