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Surge Suppression Products for Card Access Systems

Transient Voltage Surge Suppressors Protection for Systems & Devices Commercial and Residential Applications

- AC and DC Circuit Protectors • AC Plug-In Protectors • Card Access System Protectors • Motor Control
- Data Line Protectors • Fire Alarm / Loop Protectors • Gate Entry System • Generator Transfer Switch Protectors
- HVAC System Protectors • LAN Protectors • Lightning System Protectors • Main Panel & Sub Panel Protectors
- Modem Protectors • Protectors • Recreational Vehicle Protectors • Video Camera & Monitor Protectors
- Relay Protectors • Robotics System Protectors • Satellite Protectors • UPS System Protectors

120 BCP 20M: If your power side of the system requires a hardwire connection, this 120 Volt AC 3-Wire Single Phase (15-20 Amp) device should be installed as close as possible to the equipment being protected. This is an in-line series (AC) surge suppressor and is designed to stop surges from getting to the PLC – (Mother Board/Computer Board). The 120HWCP20M has a maximum current draw of 15-20 amps and provides both common and normal three-phase noise filtration. UL listed 1449 2nd Edition and rated 400V (actual 336V) peak for L-N, L-G, N-G.

AC3: If your power side of the system is connected by plug-into 110-volt AC, this unit has three outlets and should be installed in front of the plug-in transformer.

ILCP Series Models: These are UL listed 497B 4th edition, in-line series screw terminal multi-stage hybrid devices. These units are designed to protect the equipment with its close clamping ability at high-induced voltages. There is a ground lug/wire provided; only use if you have a common ground i.e. single ground for entire system to prevent ground loops.

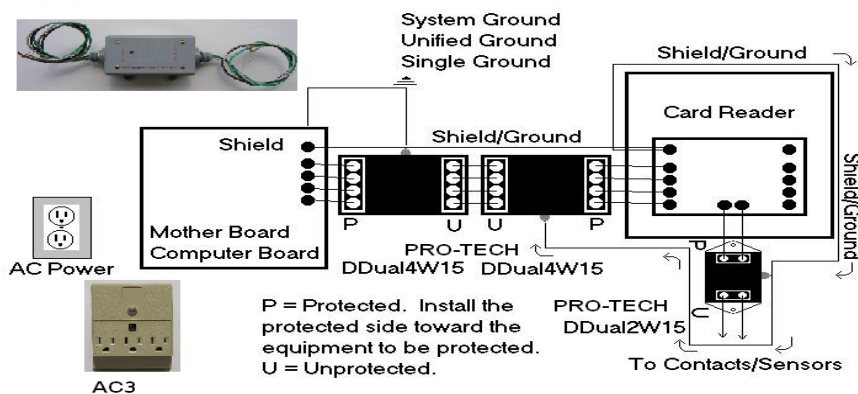
DLT 3S 200 or DLT TOS 200 or DLT 3S200 DSL: 200 Volts DC to be used for modems connected to telecommunication line with ring voltage. The DLT 3S/200 has RJ11 connection (jack/plug) and the DLT TOS 200 has screw terminal connection (hardwire). The DLT3S200 DSL has RJ11 connection (jack/plug) for your 56K or DSL line.

Dual 2W 15V: 15 Volts DC to be used on the Contact/Sensor loops or dedicated (non-ring type) modem lines.

Dual 4W or D Dual 6W: For the data side specify 6.8 Volts DC, 15 Volts DC, 30 Volts DC depending on your system, 4W for four wire and 6W for six wire. These units are designed to protect the Mother Board/Computer Board, and the Card Reader.

All grounding of low voltage surge suppressors must ground on the shield or the 5th wire used for shield/grounding. The shield/ground must be grounded to the system ground. The system must ground to only one ground source to avoid a ground loop (more than one ground). Normally you will find one ground on the AC power area or main panel ground.

Card Access Layout



120BCP20 M/MSE Singe Ended- 120 Volt AC3-Wire – 15-20 Amp (Series)

120 BCP 20M: If your power side of the system requires a hardwire connection, this 120 Volt AC 3-Wire Single Phase (15-20 Amp) device should be installed as close as possible to the equipment being protected. This is an in-line series (AC) surge suppressor and is designed to stop surges from getting to the PLC – (Mother Board/Computer Board). The 120BCP20M/SE has a maximum current draw of 15-20 amps and provides both common and normal three-phase noise filtration. Rated 400V peak (Actual 336 volt peak) for L-N, L-G, N-G.

Specifications – Operating:	
Maximum Operating Voltage:	120 Volts AC
Typical Leakage Current:	None
Operation Temperature:	- 40 to + 85° C
Connection:	Hardwired
Lines Protected:	L/N, L/G, N/G
Installation Configuration:	In-Line Series
Specifications – Electronic:	
Maximum Surge Current (8x20µs):	10,000 Amps Total
Maximum Surge Voltage (1.2x50µs):	20,000 Volts
Clamping Voltage:	130 Volts RMS
Clamping Response Time:	<5 nanoseconds
Maximum Line Amperage:	15-20 Amps @ 120 VAC 50/60 Hz
Voltage:	Voltage Sensitive
Operation Indicator:	Yes – LED
Power Dissipation (8x20µs):	750 Joules or (20,000,000 VA)
Failure Mode:	Fails Safe (Open)
Dimensions:	Depth: 1.5" Width 3" Length 5" Tabs .5"
Weight:	Approximately 1 Lb.

AC3 - AC Wall Outlet Surge Suppressor

AC3: If your power side of the system is connected by plug-into 110-volt AC, this unit has three outlets and should be installed in front of the plug-in transformer.

Specifications:	
Maximum Operating Voltage:	120 Volts AC
Current Rating:	15 Amps
AC Outlets:	3
Operation Temperature:	-40 to + 85° C
Protection Modes:	P/N - P/G - N/G
Maximum Surge Current (8x20us):	3,000 Amps
Maximum Surge Voltage (1.2x50us):	6,000 Volts
Clamping Voltage:	130 Volts RMS
Clamping Response Time:	<5 Nanoseconds
Maximum Line Amperage:	15 Amps @ 120 VAC 60Hz
Voltage:	Voltage Sensitive
Operation Indicator LED:	Yes
Power Dissipation (8x20us):	750 Joules or 18,000,000 VA
Failure Mode:	Fails Safe (open)

DLT 3S 200 or DLT TOS 200 or DLT 3S 200V DSL

ILDCP Series - Isolated Loop Circuit Protector for Communication Lines

ILDCP 3S 200: 200 Volts DC to be used for modems connected to telecommunication line with ring voltage. The DLT 3S/200 has RJ11 connection (jack/plug).

DLT TOS 200: 200 Volts DC to be used for modems connected to telecommunication line with ring voltage. The DLT TOS/200 has screw terminal connection (hardwire).

DLT 3S 200V DSL is an in-line series Modular RJ11 plug-in multi-stage hybrid device for your 56K or DSL line. This unit incorporates state of the art technology and provides multi stage hybrid protection. Tested to ANSI/IEEE B3 impulse standards and UL 497B. Unlike other communication line surge suppressors, it goes far beyond industrial grade surge suppressors and is self-restoring after each surge within ratings.

			
Specifications Operating:	DLT 3S	DLT TOS	DLT 3S DSL
Maximum Operating Voltage:	200 Volts DC	200 Volts DC	200 Volts DC
Typical Leakage Current:	< 5u amps	< 5u amps	< 5u amps
Maximum Data Rate:	33Kbps	22Kbps	10Mhz
Operation Temperature:	-40 to + 85° C	-40 to + 85° C	-40 to + 85° C
Connectors:	RJ11 Jack/Plug	Terminal Block	RJ11 Jack/Plug
Lines Protected:	One Pair	One Pair	One Pair
Installation Configuration:	In-Line Series	In-Line Series	In-Line Series
Specifications Electronic:			
Maximum Surge Current (8x20us):	10,000 Amps Per Line	10,000 Amps Per Line	10,000 Amps Per Line
Maximum Surge Voltage (1.2 x 50us):	6,000 Volts	6,000 Volts	6,000 Volts
Capacitance:	<250 pf	<250 pf	<250 pf
Clamping Voltage:	210 Volts DC	210 Volts DC	210 Volts DC
Clamping Response Time:	<5 Nanoseconds	<5 Nanoseconds	<5 Nanoseconds
Voltage:	Voltage Sensitive	Voltage Sensitive	Voltage Sensitive
Pass Voltage Test to ANSI/IEEE B3 Impulse:	10% Above Normal	10% Above Normal	10% Above Normal
Power Dissipation (8 x 20us):	60,000,000 VA Protection Per Line	60,000,000 VA Protection Per Line	60,000,000 VA Protection Per Line
Dimensions:	Depth: 1" Width: 2" Length: 1 ½" Tabs: ½" each	Depth: 1" Width: 2" Length: 1 ½" Tabs: ½" each	Depth: 1" Width: 2" Length: 1 ½" Tabs: ½" each

D Dual 2W - ILDCP Series - Isolated Loop Circuit Protector for Communication Lines



D Dual 2W 15V: 15 Volts DC to be used on the Contact/Sensor loops or dedicated (non-ring type) modem lines.

Specifications - Operating:	
Maximum Operating Voltage:	12 Volts DC
Typical Leakage Current:	< 5u amps
Maximum Data Rate:	22 Kbps
Operation Temperature:	-40 to + 85° C
Connectors Lines Protected:	Dual Terminal Block – (1 Pair)
Installation Configuration:	In-Line Series
Specifications - Electronic:	
Maximum Surge Current (8 x 20us):	10,000 Amps Per Line
Maximum Surge Voltage (1.2 x 50us):	6,000 Volts
Capacitance:	<250 pf
Clamping Voltage:	15 Volts DC
Clamping Response Time:	<5 Nanoseconds
Voltage:	Voltage Sensitive
Pass Voltage Test to ANSI/IEEE B3 Impulse:	19 Volts DC
Power Dissipation (8 x 20us):	60,000,000 VA Protection Per Line
Dimension:	Depth: 1" – Width: 2" – Length: 1 ½" - Tabs: ½" each

Dual 4W and Dual 6W – Data Line Suppressor:



Dual 4W and Dual 6W: For the data side specify 6.8 Volts DC, 15 Volts DC, 30 Volts DC depending on your system. This unit is designed to protect the Mother Board/Computer Board, and the Card Reader. This unit incorporates state of the art technology and provides multi stage hybrid protection for your data/communication lines. Tested to ANSI/IEEE B3 impulse standards and UL 497B 4th edition. Unlike other communication line surge suppressors, it goes far beyond industrial grade surge suppressors and is self-restoring after each surge within ratings.

Specifications – Operating:	
Maximum Operating Voltage:	5V DC, 12V DC or 24V DC
Typical Leakage Current:	<5u Amps
Maximum Data Rate:	10Mhz
Operation Temperature:	-40 to + 85° C
Connectors and Lines Protected:	Terminal Blocks - 4 Lines (2 Pair) or 6 Lines (3 Pair)
Installation Configuration:	In-Line Series
Specifications – Electronic:	
Maximum Surge Current (8x20us):	3,000 Amps
Maximum Surge Voltage (1.2x50us):	6,000 Volts
Capacitance:	<250 pf
Clamping Voltage:	5V DC, 12V DC, or 24V DC
Clamping Response Time:	<5 Nanoseconds
Voltage Sensitive:	Non-Load Bearing
Pass Voltage Tested to ANSI/IEEE B3:	<10V DC, 19V DC and 31V DC
Power Dissipation (8x20us):	1 st Stage: 3,000 Amps per line 2 nd Stage: Filter Section 3 rd Stage: 100,000 VA
Dimensions:	4W – Depth 1" Width 2" Length 1 ½" Tabs ½" each 6W -Depth 1 1/2" Width 2" Length 3" Tabs ½" each

Bergeron Products Innovations.

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