

Features

- Patent #6,327,129
- Balanced TRIGARD®
- (4) Listed per UL 497 (File: 53117)
- Reliability is improved by elimination of the air Back-Up-Gap (BUG)
- Multi-Stage Protection (MSP®)
- Quick response



155HS Series Digi.Guard II - MSP® Heavy Duty Station Protector

Bourns® Model 155HS Digi.Guard II Multi-Stage Protector is a new generation telecommunications Station Protector designed to be the best all around choice for protecting copper pair voice-band and high speed data circuits. Combining the strengths of Gas Tube and solid-state protectors, the Model 155HS integrates three advanced protection technologies: a proprietary sixth-generation Gas Tube, a precision matched metal oxide varistor and a patented Switch-Grade Fail-Short mechanism.

Bourns® 2378-35 can be used universally for POTS and high speed data, e.g. ISDN, ADSL, ADSL2+, VDSL2, other xDSL protocols and high speed Ethernet. Bourns® MSP® technology provides unparalleled overvoltage protection with low loss on paired copper communications circuits. The Model 155 is the most economical, reliable and best performing choice for overvoltage protection of paired copper communications circuits.

Characteristics

Test Methods per IEEE C62.31, UL 497, Telcordia GR-1361, applicable sections of Telcordia GR 974. UL Listed.

DC Breakdown	300-400 V
AC Breakdown, 60 Hz	300-400 V
Impulse Breakdown	
100 V/µs	600 V
1000 V/µs	
Insulation Resistance @ 100 Vdc	>1 GΩ
Insertion Loss @ 100 MHz	<0.4 dB (Category 5)
Return Loss @ 100 MHz	>14 dB (Category 5)
Capacitance Line to Line @ 1 MHz	10 pF typical
Capacitance Line to Ground @ 1 MHz	
Impulse Reset1 (DC Extinguishing)	. ,,
52 V, 260 mA	
135 V, 200 mA	<10 ms³
150 V, 200 mA	
Impulse Life Characteristics (Per-Side, Simultaneously)	
100 A, 10/1000 µs	>3000 operations
300 A, 10/1000 µs	
500 A, 10/1000 µs	>1000 operations
2,000 A, 10/250 μs	>100 operations
5,000 A, 20/100 μs	>10 operations
20,000 A, 8/20 µs	>10 operations4
AC Life Characteristics	
0.5 A rms continuous	>30 seconds
1 A rms, 1 second, 600 ft. cable	>60 seconds
1 A rms, 1 second, 1 mile cable	>60 operations
10 A rms, 1 second	>20 operations
65 A rms, 11 cycles	>1 operation⁴
120 A rms, 0.1 second	>1 operation
Life Test Criteria	
Insulation Resistance Throughout the Life Test	100 ΜΩ
Life Test Failures	0.0 %
Failures During Environmental Cycling w/ surges	0.0 %
Failshort (vented or non-vented gas tube)	>30 Arms, simultaneous
Operating Temperature	55 to +85 °C
Natara	

Notes:

- Network Applied
- ² Exceeds Telcordia 1361
- ³ Surpasses Telcordia GR 974
- 4 RUS (REA) PE-80

Line to Line voltage is approximately 1.8 to 2 times the stated Line to Ground breakdown voltage.



Features (Continued)

- High current handling
- Compact, industry standard footprint
- Meets test requirements of Telcordia GR 974, GR1361, SR 5165 and RUS PE-80
- Telcordia Analysis report DA-1843

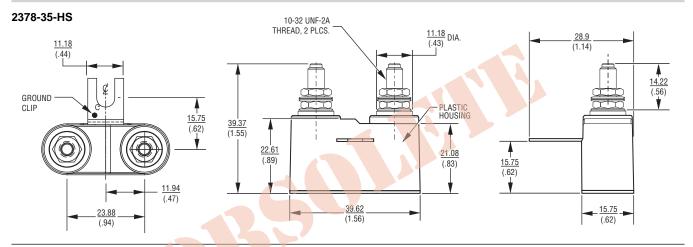
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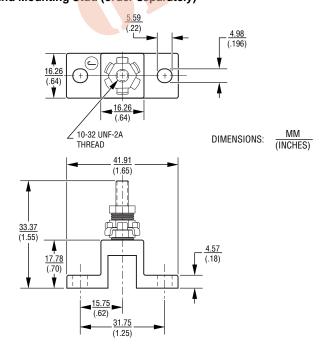
How To Order

Model 155HS-BC should be used on DSL systems that require Tip-to-Ground and Ring-to-Ground capacitive balance of ≤1 pF.

Product Dimensions



2372-02 Ground Mounting Stud (order separately)



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