




## Features

- Balanced TRIGARD® protection
-  UL Listed per UL 497 (File: E53117)
- Reliability is improved by elimination of the air Back-Up-Gap (BUG)
- Extended service life
- Quick response
- High current handling



This series is currently available but not recommended for new designs.

## 155G Series Heavy-Duty Station Protector

Bourns® Model 155G Balanced Gas Discharge Tube Protector is an economical choice for protecting copper pair voice-band and high-speed data circuits. The 155G utilizes Bourns® proprietary Gas Discharge Tube for extended surge life and a patented Switch-Grade Fail-Short mechanism for thermal overload protection.

Bourns® P/N 2378-35-G can be used universally for POTS and high speed data, such as ADSL, ADSL2+, VDSL, 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 155G is a reliable and economical choice for overvoltage protection of paired copper communications circuits. It exceeds all Cat5 requirements.

### Characteristics

Test Methods per IEEE C62.31, UL 497, RUS PE-80, CSA C22.2, Telcordia GR 974 and 1361.

DC Breakdown .....	300-500 V	
AC Breakdown.....	60 Hz ..... 300-500 V	
Impulse Breakdown.....	100 V/ $\mu$ s ..... 625 V	
	1000 V/ $\mu$ s ..... 875 V	
Insulation Resistance .....	100 Vdc ..... > 1 G $\Omega$	
Insertion Loss .....	100 MHz ..... Exceeds Category 5	
Return Loss .....	100 MHz ..... Exceeds Category 5	
Capacitance Tip or Ring to Ground - Binding Post.....	1 MHz ..... 3.5 pF typical	
Impulse Reset <sup>1</sup> .....	52 V, 260 mA ..... < 10 ms	
	135 V, 200 mA ..... < 10 ms	
	150 V, 200 mA ..... < 150 ms	
Impulse Life Characteristics .....	10 A, 10/1000 $\mu$ s ..... > 3000 operations	
	(Tip and Ring to Ground, Simultaneously) .....	100 A, 10/1000 $\mu$ s ..... > 300 operations
	300 A, 10/1000 $\mu$ s ..... > 100 operations	
	500 A, 10/1000 $\mu$ s ..... > 400 operations <sup>2</sup>	
	2,000 A, 10/250 $\mu$ s ..... > 25 operations	
	5,000 A, 20/100 $\mu$ s ..... > 2 operations	
AC Life Characteristics .....	20,000 A, 8/20 $\mu$ s ..... > 1 operation	
	0.5 A rms continuous ..... > 30 seconds	
	(Tip and Ring to Ground, Simultaneously) .....	1 A rms, 1 second, 600 ft. cable ..... > 60 operations
	1 A rms, 1 second, 1 mile cable ..... > 60 operations	
	10 A rms, 1 second..... > 5 operations	
65 A rms, 11 cycles..... > 1 operation <sup>2</sup>		
120 A rms, 0.1 second..... 1 operation		
High Current Capability and Thermal Operation .....	> 30 A rms, 15 min.	
(Tip and Ring to Ground, Simultaneously)		
Storage and Operating Temperature .....	-55 to +85 °C	

### Notes:

<sup>1</sup> Network applied.

<sup>2</sup> Per RUS PE-80.

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



**WARNING**  
**Cancer and Reproductive Harm**  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

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## Features (Continued)

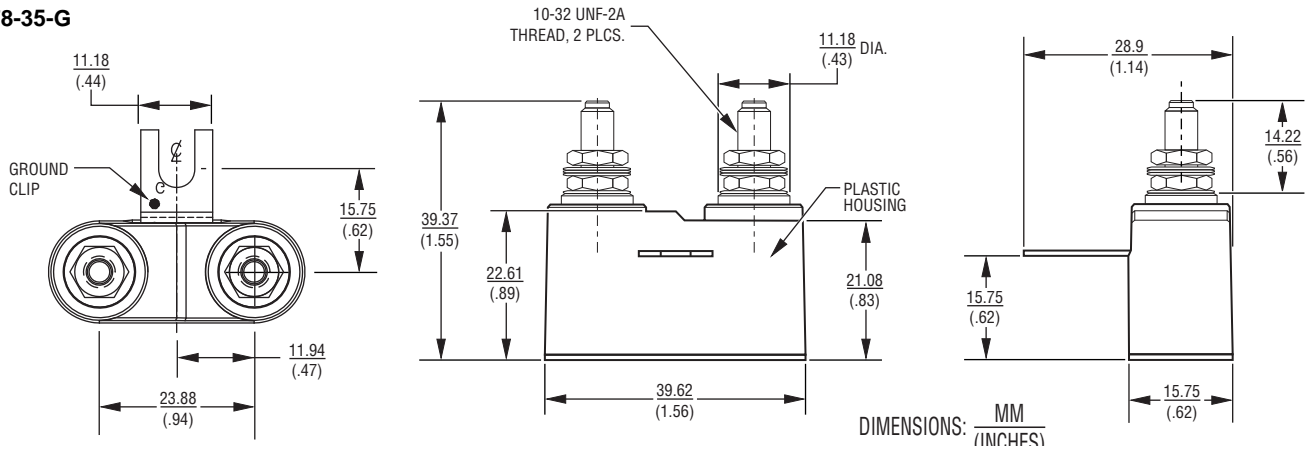
- Compact, industry standard footprint
- Meets test requirements of Telcordia GR 974, GR1361, SR 5165 and RUS PE-80
- Telcordia Analysis report DA-1843

# 155G Series Heavy Duty Station Protector

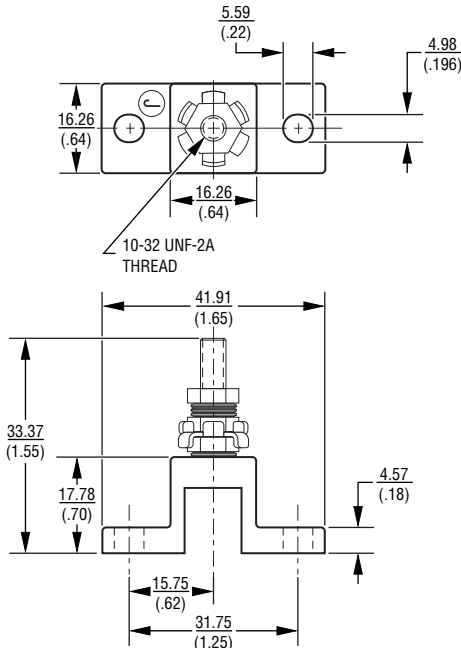
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### Product Dimensions

#### 2378-35-G



#### 2372-02 Ground Mounting Stud (Order Separately)



#### How To Order

Model 155G ..... Order by Part Number 2378-35-G

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