

Features

- Multi-stage protection
- Balanced TRIGARD®
- Quick response to surges
- High energy handling
- Reliability is improved by elimination of the air Back-Up-Gap (BUG)
- Meets test requirements of Telcordia GR 974, GR1361, SR 5165 and RUS PE-80
- Telcordia Analysis report DA-1843
- High-speed network compatible
- Binding post or optional Insulation Displacement Connectors (IDC)
- ւ(Ս) us UL Listed per UL 497 (File: E53117)

BOURNS®

2377-45 Series Digi.Guard - MSP® Maximum Duty Station Protector

Bourns® Model 455HS Multi-Stage Protector (MSP®) 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 Discharge Tube (GDT) and solid state overvoltage protection, the Model 455HS MSP® integrates three advanced technologies: our proprietary advanced GDT, precision matched metal oxide varistors (MOV), and a patented Switch-Grade Fail-Short mechanism. The 2377 series offer superior service life, far exceeding Telcordia standards.

Bourns® 2377-45 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 455 is the most economical, reliable and effective choice to protect paired copper communications circuits. The IDC version, with environmental sealant, provides additional ease of installation and protection against corrosion.

Characteristics

Tested per IEEE C62.31, UL 497, CSA C22.2, Telcordia GR-1361 and applicable sections of Telcordia GR 974.

DC Breakdown		. 300-400 V
AC Breakdown6	60 Hz	. 300-400 V
Impulse Breakdown1	100 V/µs	. 600 V
·	1000 V/μs	. 650 V
Insulation Resistance1	100 Vdc	.> 1 GΩ
Insertion Loss1		
Return Loss1		
Capacitance Line to Line - Binding Post1		
Capacitance Line to Line - IDC1	1 MHz	. 14 pF typical
Capacitance Line to Ground - Binding Post1	1 MHz	. 24 pF typical
Capacitance Line to Ground - IDC1		
Impulse Reset ¹		
. 1	I35 V, 200 mA	. < 10 ms ³
1	150 V, 200 mA	. < 150 ms
Impulse Life Characteristics		
(Per-Side, Simultaneously)1	100 A, 10/1000 μs	. > 3000 operations ²
	300 A, 10/1000 µs	
5	500 A, 10/1000 μs	. > 1000 operations ⁴
	2,000 A, 10/250 µs	
	5,000 A, 20/100 µs	
2	20,000 A, 8/20 µs	. > 10 operations ⁴
AC Life Characteristics	0.5 A rms continuous	. > 30 seconds
1	I A rms, 1 second, 600 ft. cable	. > 60 operations
1	I A rms, 1 second, 1 mile cable	. > 60 operations
1	10 A rms, 1 second	. > 20 operations
2	200 A rms, 11 cycles	.1 operation ⁵
1	120 A rms, 0.1 second	.1 operation
Life Test Criteria		
Insulation Resistance Throughout the Life Test		. 100 MΩ
Life Test Failures		. 0.0 %
Failures During Environmental Cycling w/ surges		
Fail-Short (vented or non-vented gas tube)		. > 30 Arms, simultaneously
Operating Temperature		55 to +85 °C

Notes:

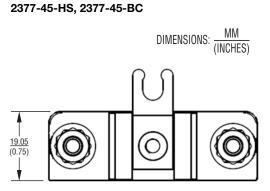
- ¹ Network Applied
- ² Exceeds Telcordia (Bellcore) GR 1361
- ³ Surpasses Telcordia GR 974
- 4 RUS (REA) PE-80
- ⁵ Protector may short to ground

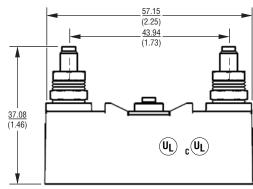
Line to Line voltage is approximately 1.8 to 2 times the stated Line to Ground breakdown voltage.

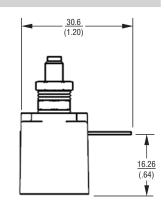
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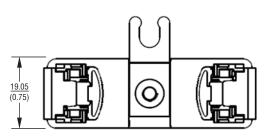
Product Dimensions

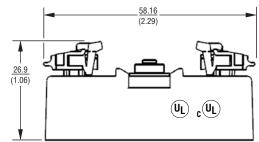


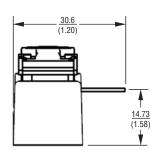




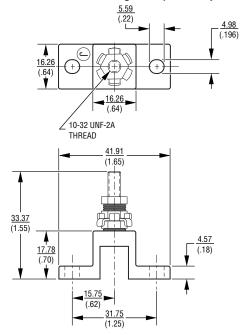
2377-45-HS-IDC, 2377-45-BC-IDC







2372-02 Ground Mounting Stud (order separately)



How To Order

	2377-45-HS	Binding Post Connectors
2	2377-45-BC*	Balanced Capacitance,
		Binding Post Connectors
	2377-45-HS-IDC	Insulation Displacement Connectors
	2377-45-BC-IDC*	Balanced Capacitance,
		Insulation Displacement Connectors

* BC versions for xDSL systems that require Tip-to-Ground and Ring-to-Ground capacitive balance of ≤1 pF.

Related Products



REV. N 03/15