



S&C ELECTRIC COMPANY

GENERAL OFFICES • CHICAGO

Specialists in High-Voltage Switching and Protection

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CERTIFIED TEST ABSTRACT

Fault Interrupting at 60 Hz

TYPE OF EQUIPMENT

S&C Fuse Cutout — Type XS — Outdoor Distribution — Extra-Heavy-Duty Overhead Pole-Top Style, Catalog No. 89071R11

Maximum Voltage	15	kV
BIL.....	110	kV
Amperes Maximum.....	200	A
Asymmetrical Interrupting Current.....	12,000	A

APPLICABLE TEST SPECIFICATIONS

Test procedure in accordance with ANSI/IEEE C37.41-1994, *IEEE Standard Design Tests for High-Voltage Fuses, Distribution Enclosed Single-Pole Air Switches, Fuse Disconnecting Switches, and Accessories*, and ANSI C37.42-1989, *Distribution Cutouts and Fuse Links — Specifications*.

TEST RESULTS

S&C Test Reference Number: 9812

Successful interrupting test results are presented in the following table, "Interrupting Test Results — Fault Current Testing."

**INTERRUPTING TEST RESULTS
 FAULT CURRENT TESTING**

Required Test Current Levels		TEST SERIES									
		1		2		3		4		5	
		Rated Interrupting Current +5% / -0%		From 70% to 80% Rated Interrupting Current		From 20% to 30% Rated Interrupting Current		From 400 to 500 Amperes		From 2.7 to 3.3 X Fuse Link Rating	
60 Hz Recovery Voltage, kV		15.0		15.0		15.0		TEST SERIES NOT REQUIRED		15.0	
X/R Ratio		13.5		13.1		13.6				1.2	
Transient ¹ Recovery Voltage	kHz	2.38		2.33		2.50				Not Applicable	
	PKF ³	1.41		1.31		1.30				776 ⁴	
Prospective Current rms Amps	Sym.	8,000		6,210		2,090				—	
	Asym.	12,200		9,430		3,190				140K	
Fuse Link Rating		140K	200T	140K	200T	140K	200T				
Making Angle Related to Voltage Zero, Degrees ²	0	X	X	X	X						
	90	X	X	X	X	X	X			X	
	140	X	X	X	X						
Number of Tests		3	3	3	3	1	1	2			
Number of Tests on Each Cutout		3	3	3	3	2		2			
Duration of Normal Frequency Recovery Voltage After Interruption, Seconds		0.5		0.5		0.5		0.5			

1. The prospective transient recovery voltage is described by a natural frequency and a peak factor.
2. X indicates a performed test. All tests were successful.
3. PKF (Peak Factor) is the ratio of the prospective first peak of the transient recovery voltage to the instantaneous value of the 60 Hz source voltage at the moment of current interruption.
4. This current results in a melting time of approximately 2 seconds.

