



Reference Number : CERT-643  
Original Issue Date : August 25, 2006  
Revision Date :

**CERTIFIED TEST ABSTRACT**

**Fault Interrupting at 60 Hz**

TYPE OF EQUIPMENT

**S&C Fuse Cutout — Type XS — Outdoor Distribution — Overhead Pole-Top Style,** with the following mounting configuration, catalog number, and ratings:

<u>Catalog Number</u>	<u>Style*</u>	<u>kV Max.</u>	<u>kV BIL</u>	<u>Amperes, Rms</u>	
				<u>Max.</u>	<u>Inter. (Asym.)</u>
89071R11-P	UHD	15	100	200	12,000

\*UHD = Ultra-Heavy Duty

APPLICABLE TEST SPECIFICATIONS

Test procedure in accordance with IEEE C37.41-2000, *IEEE Standard Design Tests for High-Voltage Fuses, Distribution Enclosed Single-Pole Air Switches, Fuse Disconnecting Switches, and Accessories*, and ANSI C37.42-1996, *Distribution Cutouts and Fuse Links — Specifications* and IEC 60282-2-1997, *High Voltage Fuses — Part 2: Expulsion Fuses*. Only portions of the full test series were performed.

TEST RESULTS

S&C Reference Test Number : 11822

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

**Interrupting Test Results  
 Fault Current Testing**

Test Current Level		TEST SERIES	
		Rated Interrupting Current	
60 Hz Recovery Voltage, kV		15	
X/R		13.4	
Transient <sup>1</sup> Recovery Voltage	kHz	2.3	
	PKF <sup>3</sup>	1.43	
Prospective Current rms Amps	Sym.	7 790	
	Asym.	12 600	
Fuse Link Rating		140K	200T
Making Angle Related to Voltage Zero, Degrees <sup>2</sup>	0	X	X
	90	X	X
	140	X	X
Number of Tests		3	3
Number of Tests on Each Cutout		3	3
Duration of Normal Frequency Recovery Voltage After Interruption, Seconds		0.5	

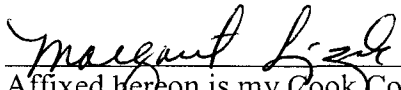
1. The prospective transient recovery voltage is described by a natural frequency and a peak factor.
2. X indicates a performed test. All tests were successful.
3. PKF (Peak Factor) is the ratio of the prospective first peak of the transient recovery voltage to the instantaneous value of the 60 Hz source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


STATE OF ILLINOIS )  
 )ss  
 COUNTY OF COOK )

Michael G. Ennis, being sworn, states that: He is Manager-Product Engineering, Fuse Division at S&C Electric Company and is authorized to execute this certificate on its behalf; and said tests were conducted in the manner above set forth, and the results are accurately reported above.

Subscribed and sworn to before me  
 this 25 day of August 2006

S&C ELECTRIC COMPANY

  
 Affixed hereon is my Cook County  
 Illinois Notary Public Seal

  
 Michael G. Ennis - Manager -  
 Product Engineering  
 Fuse Division

