Specialists in High-Voltage Switching and Protection

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Reference Number: 40-CERT85-73 Original Issue Date: March 25, 1985 Revision Date: November 21, 2002

STATEMENT OF PERFORMANCE

TYPE OF PERFORMANCE

Time-Current Characteristics Minimum Melting Total Clearing

TYPE OF EQUIPMENT

S&C Positrol Fuse Links, Universal Style, in the following speed characteristics and ratings:

Standard Speed, TCC 123, Ampere Ratings 1-200 "K" Speed, TCC 165, Ampere Ratings 6K-200K "T" Speed, TCC 170, Ampere Ratings 6T-200T "N" Speed, TCC 167, Ampere Ratings 5N-200N "QR" Speed, TCC 166, Ampere Ratings 1QR-200QR "DR" Speed, TCC 175, Ampere Ratings, 3DR-20DR

DISCUSSION

The fuse links under Type of Equipment have been tested in accordance with procedures described in ANSI C37.41-2000, "Design Tests for High-Voltage Fuses, Distribution Enclosed Single-Pole Air Switches, Fuse Disconnecting Switches and Accessories", additionally "K" Speed and "T" Speed fuse links comply with requirements in ANSI C37.42-1996, Specifications for Distribution Cutouts and Fuse Links.

In accordance with these Standards, all test points for minimum melting time-current characteristics have established minimum response curves and plus-tolerances on current. Interrupting tests, using representative fuse links in distribution cutouts, have established maximum arcing times which, when added to <u>maximum</u> melting time-current characteristics (minimum characteristics plus tolerance), determine total clearing time-current characteristics.

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CONCLUSION

Time-current characteristics of S&C Positrol Fuse Links, Universal Style, have been determined, and are in conformance with published TCC minimum melting and TCC total clearing characteristics curves as listed here:

<u>SERIES</u>	MINIMUM MELTING	TOTAL CLEARING
Standard Speed "K" Speed "T" Speed	TCC No. 123-6 TCC No. 165-6 TCC No. 170-6	TCC No. 123-6-2 TCC No. 165-6-2 TCC No. 170-6-2
"N" Speed "QR" Speed "DR" Speed	TCC No. 167-6 TCC No. 166-6 TCC No. 175-6	TCC No. 167-6-2 TCC No. 166-6-2 TCC No. 175-6-2

STATEMENT

The above stipulated conclusion is based upon testing results presented and, on engineering experience and judgment.

STATE OF ILLINOIS COUNTY OF COOK

Mark W. Stavnes, being sworn, states that: He is Manager - Fuse Product Engineering of S&C Electric Company and is authorized to execute this statement on its behalf; and said statement is true and accurate for the specified apparatus.

Subscribed and sworn to before me this <u>26</u> day of <u>Movember</u> 2002. S&C ELECTRIC COMPANY

Affixed hereon is my Cook County,

Illinois Notary Public Seal

Mark W. Stavnes - Manager Fuse Product Engineering

"OFFICIAL SEAL"

शका garet Lizak, Notary Public County of Cook, State of Illinois My Commission Expires 07-09-05