TOTAL CLEARING TIME-CURRENT CHARACTERISTIC CURVES

SM REFILL UNITS—S&C COORDINATING SPEED

BASIS—These refill units are tested in accordance with the procedures described in ANSI Standard C27.41-1981. As required by this standard, the minimum melting and total clearing curves are based on tests starting with the refill unit at an ambient temperature of 25°C and no initial load.

CONSTRUCTION—Fusible elements are silver and of solderless construction.

TOLERANCES—Curves are plotted to maximum test points. All variations are minus.

APPLICATION—These S&C Coordinating Speed refill units should be applied only where the maximum continuous load current does not exceed 200 amperes and where all fault currents below 1000 amperes will be cleared by another fuse. They are for use where load conditions do not require a fuse of higher ampere rating, but amperes will be cleared by another fuse. They are for use where additional time margin in the "protected" fuse is necessary to replace unblown refill units in single-phase or three-phase applications. Coordinating speeds, "super-slow" speeds, and "high-surge" speeds, require the application of these two factors will give a time interval between the operating characteristics of the two breakers may be very narrow. Under these circumstances there must be an extremely short time interval between the minimum melting and the total clearing characteristics of the fuse.

The refill units represented by these curves possess this short time interval feature, since—having a nondamageable fusible element construction which is helically coiled fusible element construction can better resolve a coordination impasse than the use of another amperes rating in one of the S&C speed options. Such other fuses, including "time-lag" speeds, "super-slow" speeds, and "high-surge" speeds, require the use of "safety-zone" or setback allowances and, in addition, they have larger construction tolerances (plus 20% in current; plus 40% in terms of time). The application of these two factors will give a time interval between the adjusted minimum melting curve and the total clearing curve greater than in the case of S&C speed options.

REVIEWED UNITS AVAILABLE—

Refill Unit

S&C Refill Unit

Ku Num. Rating Ampere Rating

SM 410 14.4 210

March 18, 1985

S&C ELECTRIC CANADA LTD. • Toronto

S&C ELECTRIC COMPANY • Chicago

Supersedes TCC No. 179-4-2 dated 5-24-76