



TOTAL CLEARING TIME-CURRENT CHARACTERISTIC CURVES

VISTA™ OVERCURRENT CONTROL—TAP FAULT INTERRUPTER—S&C “K” SPEED (For use in place of conventional “-K” rated power fuses.)

BASIS—The total clearing time-current characteristic curves shown above are applicable to 60-Hz systems. For 50-Hz systems, add 4 milliseconds to the total clearing curve under consideration. This adjustment is not necessary when coordination with the source-side circuit breaker, recloser, or fuse is not particularly tight. In addition, these curves are applicable over the entire S&C Vista Underground Distribution Switchgear operating temperature range of -40°C to +40°C. No adjustments need to be made to these curves for ambient temperatures within this temperature range.

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

APPLICATION—The maximum continuous current-carrying capability of S&C Vista Underground Distribution Switchgear is 1200 amperes. The overcurrent control is capable of sensing current in the range of 50 to 25,000 amperes RMS.

The total clearing time-current characteristic curves shown above represent the total time required for the S&C Vista Underground Distribution Switchgear to both detect and interrupt the fault current. These curves should be followed for coordination problems where a tap fault interrupter is applied as a “protecting” device with respect to a main fault interrupter (if present) or with respect to a source-side relayed circuit breaker or recloser. Fault interrupter operating and clearing times are included in the curves; additional adjustments are not required.

Since the time-current characteristics are electronically derived, they are not subject to change due to aging, transient overcurrents, or fault currents.

It is, therefore, only necessary to reset the fault interrupters following a fault-clearing operation.

CONTROL SETTINGS—Curves are set using a laptop computer.

