



Minimum Tripping Time-Current Characteristic Curves

Vista® Underground Distribution System Overcurrent Control — Tap Fault Interrupter — S&C “K” Speed (For use in place of conventional “-K” rated power fuses.)

BASIS—The minimum tripping time-current characteristic curves shown above are applicable to both 50-Hz and 60-Hz systems. In addition, these curves are applicable over the entire Vista Underground Distribution Switchgear operating temperature range of -40°C to +40°C (-40°F to +104°F). No adjustments must be made to these curves for ambient temperatures within this temperature range.

TOLERANCES—Curves are plotted to minimum test points; maximum variations are plus 10% expressed in terms of current, plus 20% expressed in terms of time, or plus 6 milliseconds (60-Hz systems), plus 10 milliseconds (50-Hz systems), whichever is greater.

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

The minimum tripping time-current characteristic curves shown above are used in conjunction with fault interrupters feeding underground distribution subloop taps. These curves have been specifically designed to match the minimum melting characteristics of conventional “-K” rated power fuses.

Because the time-current characteristics are electronically derived, they are not subject to change because of 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.

