



MINIMUM TRIPPING & TOTAL CLEARING TIME-CURRENT CHARACTERISTIC CURVES

VISTA™ OVERCURRENT CONTROL—INSTANTANEOUS (0.2 kA—6 kA)

BASIS—The minimum tripping and total clearing time-current characteristic curves shown above 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—Minimum tripping curves are plotted to minimum test points; maximum variations expressed in terms of current are plus 10%. Total clearing 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 RMS. The overcurrent control is capable of sensing current in the range of 50 to 25,000 amperes RMS.

The instantaneous curves shown above are used in conjunction with vacuum fault interrupters in main feeders or feeding underground distribution subloop taps. These curves are designed specifically to maximize equipment and conductor protection by responding faster for currents greater than the instantaneous pickup setting than would be the case if the tap- or main-fault interrupter curves are used alone.

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—The instantaneous curves are set independently using a laptop computer.

