**Basis**—The average 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 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 average test points. Time-overcurrent tolerance, expressed in terms of current, is ±5 amperes plus ±5% of the selected pickup setting. Tolerance, expressed in terms of time, is ±1.5 cycles plus ±10% of the time indicated on the selected curve at a specified value of current between 2 and 30 multiples of the pickup setting.

Instantaneous pickup current tolerance is -0% to +10% of the selected instantaneous pickup current level. Definite-time response tolerance is 0 to 8 milliseconds.

**I2t Security Characteristic**—To protect the relay from exceeding its thermal limits, for faults above 14.5 kA up to the maximum sensing current of 25 kA, the I2t security characteristic may implement a definite-time tripping characteristic of 0.25 second for any current magnitude above 14.5 kA, depending on the time-dial setting and the minimum-pickup current selected. Refer to Instruction Sheet 681-515, Appendix D, “Coordination”.

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