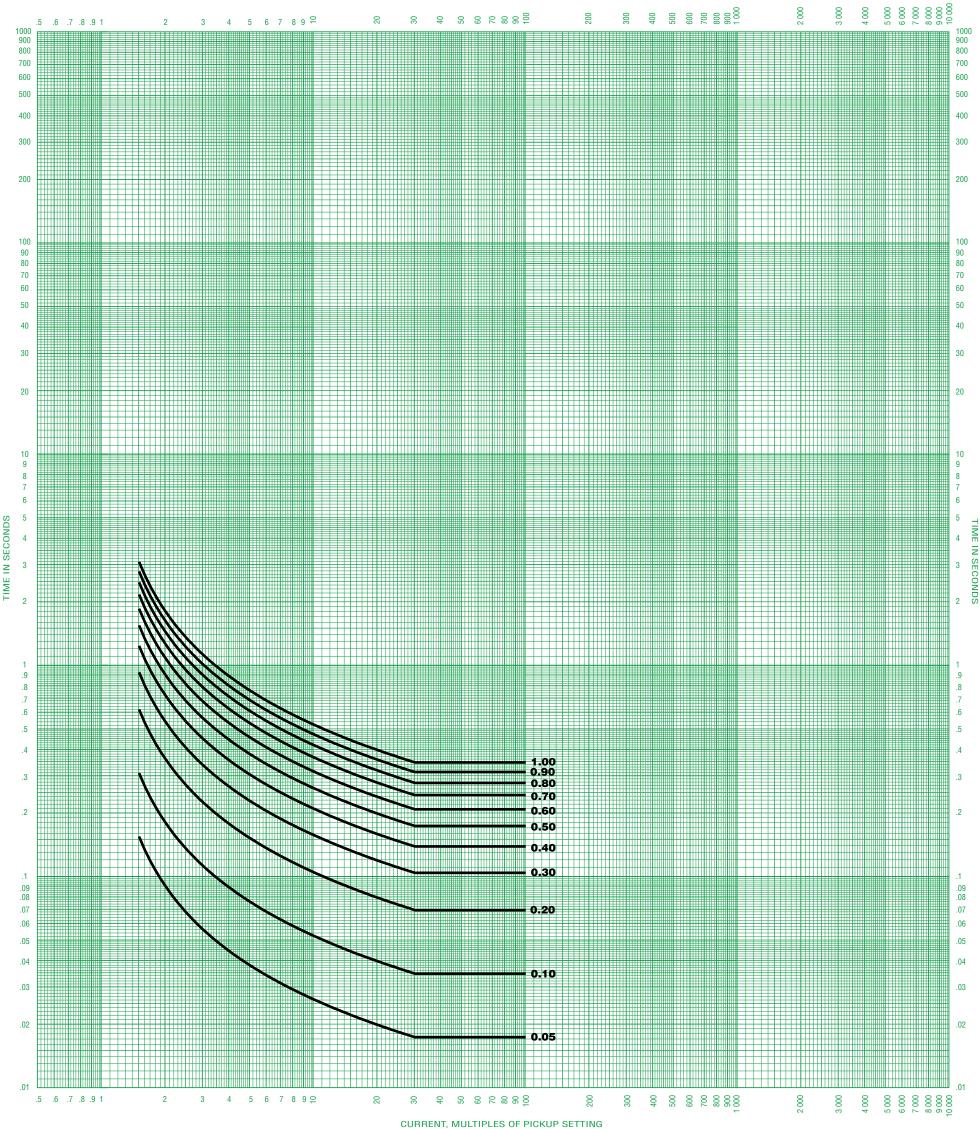
CURRENT, MULTIPLES OF PICKUP SETTING



AVERAGE TRIPPING TIME-CURRENT CHARACTERISTIC CURVES

VISTA® OVERCURRENT CONTROL—SHORT-TIME INVERSE I.E.C. (C5)

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. Timeovercurrent tolerance, expressed in terms of current, is ± 5 amperes plus $\pm 5\%$ of the selected pickup setting. Tolerance, expressed in terms of time, is ± 1.5 cycles plus $\pm 10\%$ 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.



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