

*The following definitions for TRV terms replace definitions found in ANSI/IEEE C37.100-1981.*

**transient recovery voltage.** The voltage transient that occurs across the terminals of a pole of a switching device upon interruption of the current.

NOTE: It is the difference between transient voltages to ground occurring on the terminals. The term transient recovery voltage is usually designated as TRV, and may refer to inherent TRV, modified inherent TRV, or actual TRV, as defined elsewhere. In a multiple switching device, the term is usually applied to the voltage across the first pole to interrupt. For switching devices having several interrupting units in series, the term may be applied to the voltage across units or groups of units.

**inherent transient recovery voltage.** The TRV produced by the circuit with no modifying effect of the switching device.

NOTE: The magnitude of the TRV for a given circuit and voltage is affected by the degree of current asymmetry. Sym-

metrical current usually produces the highest TRV magnitudes and is used as the basis for TRV-rated values. An asymmetrical current normally reduces the TRV magnitude from the symmetrical current case.

**modified inherent transient recovery voltage.** The TRV that results from the interaction of a circuit (that produces the inherent transient recovery voltage) and the impedance (capacitors, resistors, etc) of an interrupting device without the modifying effects of an arc and its voltage. Modifying impedances, such as capacitors and resistors, are sometimes included as part of a switching device to modify the TRV.

**actual transient recovery voltage.** The TRV that actually occurs across the terminals of a pole of a switching device following current interruption.

NOTE: The actual TRV may differ from the inherent TRV due to the modifying effects of device impedance and arc-circuit interaction.

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