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PROTECTION DEVICE TO LIMIT SWITCHING OVERVOLTAGES IMPLICATIONS OVER LOW VOLTAGE POWER CONSUMERS

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Abstract

Usually, any electric switching triggered to initiate a fault or to disconnect an electric circuit is followed by transient phenomena with occurrence of over voltages, called *transient switching overvoltages*. The theoretical and practical importance to know and evaluate correctly these overvoltages is related to the reliability of electric systems and of their component parts, as it is well-known the fact that any type of overvoltage shall generate additional strains in the electric insulations and potential hazards related to the breaking or creepage of insulations. For the limitation of switching overvoltages, two types of overvoltage suppressing circuits (one type with passive components and one type with active components in two variants) have been proposed, tested, experimented and constructed, as a result of researches developed in our group.

Key words: Agilent VEE Pro, switching overvoltages, voltage suppressor

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