

Essential Definitions For HV Back-Up Fuses



MAJOR MARKINGS

Rated Voltage U_r

Voltage used in the designation of the fuse-link, from which the test conditions are determined. The rated voltage of the fuse shall be equal or higher than the highest operating voltage, taking into account the switching voltage level and insulation level of the equipments in the circuit.

Rated Current I_r

The current assigned to the fuse-link that a new clean fuse-link will carry continuously without exceeding specified temperature rises.

Rated Maximum Breaking Current I_1

Maximum value of prospective current that a fuse is capable of breaking under prescribed conditions.

Rated Minimum Breaking Current I_3

Minimum value of prospective current that a Back-Up fuse-link is capable of breaking under prescribed conditions of use.

OTHER USEFUL DEFINITIONS

Current Limitation

Interruption of the highest short-circuit currents much before they reach their prospective peak values. This keeps potential damage to an absolute minimum.

Prospective Current

Current that would flow in the circuit if a conductor of negligible impedance replaced the fuse.

Cut-off Current

Maximum instantaneous value of current attained during the breaking operation of a fuse.

Pre-arcing Time (Melting Time)

Time interval between the beginning of a fault current and the instant of internal arc initiation.

Arcing Time

Time interval between arc initiation in a fuse-link and final arc extinction.

Operating Time (Total Clearing Time)

Total of the pre-arcing time plus arcing time.

Switching Voltage

Maximum instantaneous value of voltage, which appears across the terminals of a fuse during operation.

Power Dissipation

Power released in a fuse-link carrying a stated value of current under prescribed conditions of use and behaviour.

Derating Current

Some of the fuses with high nominal current values are provided with a separate derating current, which highlights the maximum current that fuse can be loaded on a continuous basis.

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