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IEEE Guide for the Application of Surge-Protective Devices for Use on the Load Side of Service Equipment in Low-Voltage (1000 V or Less, 50 Hz or 60 Hz) AC Power Circuits

Amendment 1: SPD Disconnector Application Considerations and Coordination

IEEE Power and Energy Society

Developed by the
Surge Protective Devices Committee

IEEE Std C62.72a™-2020
(Amendment to IEEE Std C62.72™-2016)

IEEE

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Abstract: The application considerations for surge-protective device disconnectors and the coordination of these devices in low-voltage ac power circuits are defined in this amendment. Application consideration details, potential issues, and recommendations are provided.

Keywords: circuit breaker, disconnector, fuse, IEEE C62.72™, IEEE C62.72a™, SPD, surge protective device

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Introduction

This introduction is not part of IEEE Std C62.72a-2020, IEEE Guide for the Application of Surge-Protective Devices for Use on the Load Side of Service Equipment in Low-Voltage (1000 V or Less, 50 Hz or 60 Hz) AC Power Circuits—Amendment 1: SPD Disconnector Application Considerations and Coordination.

This informative annex serves as complimentary material to IEEE Std C62.72 regarding the design, use, application, and considerations for the use disconnectors associated with surge protective devices (SPDs). The design of these disconnectors can vary greatly from “off-the-shelf” fuses or circuit breakers to uniquely constructed electro-mechanical devices. This annex provides examples of a variety of disconnectors, terminology associated SPD disconnectors, design considerations and illustrations of the disconnector configurations used with and integrated into SPDs.

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