



IEEE Standard for Definite-Purpose Switching Devices for Use in Metal- Enclosed Low-Voltage Power Circuit Breaker Switchgear

IEEE Power Engineering Society

Sponsored by the
Switchgear Committee

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**Switchgear Committee
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IEEE Power Engineering Society**

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Abstract: Definite-purpose switching devices for use in metal-enclosed low-voltage power circuit breaker switchgear are covered in this standard. The switching devices shall be fused, drawout type, three-pole construction, with one or more rated maximum ac voltages of 600 V, 508 V, and 254 V for application on systems having nominal ac voltages of 600 V, 480 V, and 240 V. The switching devices are power operated with integral or separately mounted overcurrent protective devices. Service conditions, ratings, functional components, temperature limitations and classifications of insulating materials, insulation (dielectric) withstand voltage requirements, test procedures, and application are addressed in this standard. The switching devices are normally used in applications that require frequency of operation greater than normal operations expected of low-voltage power circuit breakers.

Keywords: definite-purpose switching device, low-voltage ac power circuit breaker

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Introduction

This introduction is not part of IEEE Std C37.13.1-2006, IEEE Standard for Definite-Purpose Switching Devices for Use in Metal-Enclosed Low-Voltage Power Circuit Breaker Switchgear.

This is a new standard written specifically to provide requirements for switching devices other than low-voltage power circuit breakers installed in low-voltage power circuit breaker switchgear. Definite-purpose switching (DPS) device in this standard means a switching device used on a frame in a manner similar to a power circuit breaker and installed in low-voltage power circuit breaker switchgear.

This standard was developed because several incidents in the industry indicated that switching devices (switching devices utilizing contactors) were being improperly designed, applied, and installed in low-voltage power circuit breaker switchgear.

This standard is limited to DPS devices using contactors protected by current-limiting fuses. Additional types of DPS devices may be addressed in future revisions of this standard.

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This issue is dedicated to our friend and colleague, Shaun Slattery, who passed away during its preparation.

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