C37.16™

IEEE Standard for Preferred Ratings, Related Requirements, and Application Recommendations for Low-Voltage AC (635 V and below) and DC (3200 V and below) Power Circuit Breakers

Power & Energy Society

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IEEE Switchgear Committee

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IEEE-SA Standards Board

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Abstract: This standard defines the preferred ratings for low-voltage ac (635 V and below) power circuit breakers, general purpose dc (325 V and below) power circuit breakers, heavy duty low-voltage dc (3200 V and below) power circuit breakers, and fused (integrally or non-integrally) low-voltage ac (600 V and below) power circuit breakers.
Keywords: dc power circuit breaker; integrally fused low-voltage ac power circuit breaker; low-voltage; non-integrally fused low-voltage ac power circuit breaker; power circuit breaker

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Introduction

This introduction is not part of IEEE Std C37.16-2009, IEEE Standard for Preferred Ratings, Related Requirements, and Application Recommendations for Low-Voltage AC (635 V and below) and DC (3200 V and below) Power Circuit Breakers.

IEEE Std C37.16 was formerly the responsibility of a NEMA working group; this responsibility was transferred to IEEE Standards Association in January 2003. The Low Voltage Switchgear Devices subcommittee of the Switchgear Committee of the IEEE Power and Energy Society is now responsible for maintenance and revision of IEEE Std C37.16.

The IEEE Preferred Ratings, Related Requirements, and Application Information for Low-Voltage Power Circuit Breakers working group made the following changes to keep it up to date with the evolution of low voltage circuit breakers. Changes made in this version include:

Tables 1 and Table 2 were replaced by individual paragraphs with each rating. A new Table 1 and Table 2 link frame size to interrupting rating.

References to IEEE Std C37.29™, which has been withdrawn, were deleted.

The tables on motor application were deleted. The user is encouraged to consult relevant standards, including NEMA MG-1 and NFPA 70.

The tables on anode circuit breakers and low-voltage ac circuit protectors were deleted due to lack of product for many years.

Rows were deleted from the dc transit breaker tables related to the 53 msec time constant due to lack of product.

Tables have been rearranged by application and numbered sequentially. Annex A lists the table number from the previous edition and the location of that information in this edition

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Participants

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