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Deadfront Distribution Switchboards

National Electrical Manufacturers Association

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Foreword

This Standards Publication is intended to provide a basis of common understanding within the electrical community by aiding the user and specifier in selection and specification of deadfront distribution switchboards for specific applications by stating:

a. The general standards for deadfront switchboards including the types, insulating requirements, unusual service conditions, service equipment requirements, ampacity, and markings
b. Standard switchboard ratings including short circuit current ratings
c. Test procedures and tests for switchboard design and production
d. Manufacturing standards for switchboards
e. Switchboard application standards to provide proper selection of a switchboard and its components to ensure satisfactory service

PB 2-2011 completely revises and supersedes PB 2- 2006.

These standards are periodically reviewed by the Panelboard and Distribution Board Section of NEMA for any revisions necessary to keep them up-to-date with advancing technology. User needs have been considered throughout the development of this publication. Proposed or recommended revisions should be submitted to:

Vice President, Technical Services
National Electrical Manufacturers Association
1300 North 17th Street
Rosslyn, VA 22209

This Standards Publication was developed by the Panelboard and Distribution Board product group of the LVDE Section. At the time it was approved, the Panelboard and Distribution Board Section was composed of the following members:

ABB, Inc.—Houston, TX
Cooper Bussmann—St. Louis, MO
Eaton Corporation—Pittsburgh, PA
The Durham Company—Lebanon, MO
GE Industrial Solutions—Plainville, CT
Hubbell, Inc.—Bridgeport, CT
Penn Panel & Box Company—Collingdale, PA
Reliance Controls Corporation—Racine, WI
Schneider Electric—Palatine, IL
Siemens Industry, Inc.—Norcross, GA

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Section 1
GENERAL

1.1 SCOPE

This Standards Publication covers floor-mounted deadfront switchboards rated 6000 amperes or less, 600 volts or less, which consist of an enclosure, molded case circuit breakers, low-voltage power circuit breakers, fusible or non-fusible switches, instruments, metering equipment, monitoring equipment or control equipment, with associated interconnections and supporting structures. These units are used in the distribution of electricity for light, heat, and power.

1.2 REFERENCED STANDARDS

American National Standards Institute
1430 Broadway
New York, NY 10018

ANSI C12.11	*Instrument Transformers for Metering Purposes, 15kV and Less*
ANSI C37.50	*Test Procedures for Low-voltage (AC) Power Circuit Breaker Used in Enclosures*
ANSI/IEEE C37.13	*Low-voltage AC Power Circuit Breakers Used in Enclosures*
ANSI/IEEE C37.16	*Low-voltage Power Circuit Breaker and AC Power Circuit Breaker Protectors—Preferred Ratings, Related Requirements and Application Recommendations*
ANSI/IEEE C37.17	*Trip Devices for AC and General Purpose DC Low-Voltage Power Circuit Breaker*
ANSI/NEMA Z535.4	*Product Safety Signs and Labels*

Institute of Electrical and Electronics Engineers
445 Hoes Lane
Piscataway, NJ 08855-1331

IEEE 141	*Electric Power Distribution for Industrial Plants*

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NEMA AB	*Molded Case Circuit Breakers and Their Application*
NEMA FU 1	*Low Voltage Cartridge Fuses*
NEMA ICS 1	*General Standards for Industrial Control and Systems*
NEMA KS 1	*Enclosed and Miscellaneous Distribution Equipment Switches (600 Volts Maximum)*
NEMA PB 1	*Panelboards*