

NEMA Standards Publication

NEMA PB 2-2006

Deadfront Distribution Switchboards

National Electrical Manufacturers Association



NEMA PB 2

**DEADFRONT
DISTRIBUTION
SWITCHBOARDS**

NEMA Standards Publication PB 2-2006

Deadfront Distribution Switchboards

Published by:

National Electrical Manufacturers Association

1300 North 17th Street, Suite 1752
Rosslyn, Virginia 22209

www.nema.org

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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 2-2006 completely revises and supersedes PB 2-2001.

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:

Eaton Electrical—Pittsburgh, PA
The Durham Company—Lebanon, MO
GE Consumer & Industrial—Plainville, CT
Hubbell, Inc.—Bridgeport, CT
Milbank Manufacturing Company—Kansas City, MO
Penn Panel & Box Company—Collingdale, PA
The Pringle Electrical Mfg. Co.—Fort Washington, PA
Reliance Controls Corporation—Racine, WI
Siemens Energy & Automation, Inc.—Alpharetta, GA
Square D Company—Palatine, IL

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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

C12.11-1987 (R1993)	<i>Instrument Transformers for Metering Purposes, 15kV and Less</i>
ANSI/IEEE C37.13-1990	<i>Low-voltage AC Power Circuit Breakers Used in Enclosures</i>
C37.16-2000	<i>Low-voltage Power Circuit Breaker and AC Power Circuit Breaker Protectors—Preferred Ratings, Related Requirements and Application Recommendations</i>
C37.17-1997	<i>Trip Devices for AC and General Purpose DC Low-Voltage Power Circuit Breaker</i>
C37.50-1989 (R2000)	<i>Test Procedures for Low-voltage (AC) Power Circuit Breaker Used in Enclosures</i>
ANSI/NEMA Z535.4-2002	<i>Product Safety Signs and Labels</i>

Institute of Electrical and Electronics Engineers

445 Hoes Lane
Piscataway, NJ 08855-1331

IEEE 141-1993 (R1999)	<i>Electric Power Distribution for Industrial Plants</i>
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AB 3-2001	<i>Molded Case Circuit Breakers and Their Application</i>
FU 1-2002	<i>Low Voltage Cartridge Fuses</i>
ICS 1-2000	<i>General Standards for Industrial Control and Systems</i>