

NEMA PB 2-2011

Deadfront Distribution Switchboards



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Deadfront Distribution Switchboards

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CONTENTS

	Page	
Foreword	iii	
Section 1 GENERAL		
1.1 Scope	1	
1.2 Referenced Standards	1	
1.3 Definitions	3	
Section 2 CLASSIFICATIONS, CHARACTERISTICS, AND RATINGS		
2.1 General Standards	11	
2.1.1 Arrangement	11	
2.1.2 Equipment Specification	11	
2.1.3 Usual Service Conditions	12	
2.1.4 Unusual Service Conditions	13	
2.1.5 Temperature Limits	13	
2.2 Rating Standards	13	
2.2.1 General	13	
2.2.2 Voltage Rating	13	
2.2.3 Frequency Rating	13	
2.2.4 Continuous Current Rating	13	
2.2.5 Insulation Level Rating	14	
2.2.6 Basis of Short-Circuit Current Rating of Switchboards	14	
2.2.7 Short-Circuit Current Ratings of Switchboard Devices	14	
Section 3 PRODUCT MARKING		
3.1 Required Information	16	
3.2 Location of Markings	16	
3.3 Nationally Recognized Standards or Applicable Laws or Regulations	16	
Section 4 INSTALLATION, MAINTENANCE, AND STORAGE		18
Section 5 CONSTRUCTION		
5.1 General	19	
5.2 Type of Enclosure	19	
5.2.1 Type 1	19	
5.2.2 Type 2	19	
5.2.3 Type 3R	19	
5.2.4 Type 5	19	
5.3 Height of Indoor Enclosures	19	
5.4 Phase or Polarity Arrangements	19	
5.5 Grounding and Bonding	20	
5.6 Utility Transformer Compartment	20	
Section 6 TEST STANDARDS		
6.1 Classification of Tests	22	
6.1.1 Design Tests (Type Test)	22	
6.1.2 Production Tests (Routine Test)	23	

Section 7 APPLICATION STANDARDS

7.1	Selection of Apparatus.....	25
7.2	Voltage Ratings.....	25
7.3	Continuous Current-Carrying Ratings	25
7.4	Determination of Section Bus and Through Bus Ampacity in a Multisection Switchboard	25
	7.4.1 Calculation of Section Bus Ampacity	25
	7.4.2 Calculation of Through Bus Ampacity	27
7.5	Frequency Rating.....	27
7.6	Short-Circuit Current Rating	27
	7.6.1 Application on System	27
	7.6.2 Current-Limiting Devices	27
	7.6.3 Calculation	27
	7.6.4 Examples for Application—Determination of Switchboard Short-Circuit Current Rating (See Figure 7-1).....	28
7.7	Location, Installation, Operation, and Maintenance	29
7.8	Ground-Fault Protection	30
7.9	Corner-Grounded (Grounded B Phase) Three-Phase Delta Application.....	30

LIST OF FIGURES

Figure 1-1	SERVICE EQUIPMENT-SYSTEM GROUND CONNECTED TO NEUTRAL TYPICAL DEADFRONT SWITCHBOARD LAYOUT.....	8
Figure 1-2	SERVICE EQUIPMENT-SYSTEM GROUND CONNECTED TO GROUND BUS TYPICAL DEADFRONT SWITCHBOARD LAYOUT	9
Figure 1-3	NON-SERVICE TYPICAL DEADFRONT SWITCHBOARD LAYOUT EQUIPMENT	10
Figure 3-1	PRODUCT SAFETY LABEL.....	17
Figure 5-1	UTILITY CURRENT TRANSFORMER COMPARTMENTS	21
Figure 7-1	SWITCHBOARD DIAGRAM.....	29

LIST OF TABLES

Table 2-1	AMBIENT TEMPERATURE RANGES OF DEVICES COMMONLY MOUNTED IN SWITCHBOARDS	12
Table 2-2	COMMON VOLTAGE RATINGS OF SWITCHBOARDS	15
Table 7-1	MINIMUM AMPACITY OF SECTION BUS	26
Table 7-2	MULTIPLYING FACTOR FOR BUS AMPACITIES	26

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

Institute of Electrical and Electronics Engineers

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IEEE 141	<i>Electric Power Distribution for Industrial Plants</i>
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NEMA AB 1	<i>Molded Case Circuit Breakers and Their Application</i>
NEMA EU 1	<i>Low Voltage Cartridge Fuses</i>
NEMA ICS 1	<i>General Standards for Industrial Control and Systems</i>
NEMA KS 1	<i>Enclosed and Miscellaneous Distribution Equipment Switches (600 Volts Maximum)</i>
NEMA PB 1	<i>Panelboards</i>