NEMA SG*7 91 ■ 6470247 0501045 T86 ■

nema

STANDARDS PUBLICATION NO. SG 7

Manufacturers Labels for Switchgear Assemblies

NEMA

NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION ■ 2101 L STREET, N.W., WASHINGTON, D.C. 20037

Copyright National Electrical Manufacturers Association
Provided by IHS under license with NEMA
No reproduction or networking permitted without license from IHS
Not for Resale

NEMA SG 7-1991

SG 7

MANUFACTURERS LABELS FOR SWITCHGEAR ASSEMBLIES

Published by

National Electrical Manufacturers Association
2101 L Street, N.W., Suite 300
Washington, D.C. 20037-1526

© 1992 by National Electrical Manufacturers Association

Copyright National Electrical Manufacturers Association
Provided by IHS under license with NEMA
No reproduction or networking permitted without license from IHS
Not for Resale

TABLE OF CONTENTS

	FOREWORD	i
	SCOPE	ii
Section 1	REFERENCED STANDARDS	1
Section 2	STANDARDS LABEL	3
Section 3	STANDARDS LABEL LOCATION	5

Copyright National Electrical Manufacturers Association
Provided by IHS under license with NEMA
No reproduction or networking permitted without license from IHS Not for Resale

Foreword

This is one of several NEMA Standards covering the range of low-voltage to high-voltage switchgear products. Such products are generally applied to utility and industrial use with a portion used for commercial applications. User and general interest input played a significant part in the development of the product requirements carried by this publication. It, as well as the other NEMA Standards Publications covering low-voltage to high-voltage switchgear products, is not intended to stand alone, for without exception:

1. It may adopt by reference the appropriate American National Standards as the main body of this NEMA publication.
2. It offers a vehicle for getting into print the proposed NEMA revisions of the pertinent C37 Standards, until such a time as those revisions can be evaluated, approved and published as a revision of a particular American National Standard.
3. It covers additional information about a product of specific interest to the manufacturing community, which the ANSI Standards Committee does not include in its scope.

The standards in this publication are periodically reviewed by the Power Switchgear Assemblies Voting Classification of the Switchgear Section of NEMA for any revisions necessary to keep them current with advancing technology. Proposed or recommended revisions should be submitted to:

Vice President, Engineering Department
National Electrical Manufacturers Association
2101 L Street, NW, Suite 300
Washington, DC 20037-1526

Copyright National Electrical Manufacturers Association
Provided by IHS under license with NEMA
No reproduction or networking permitted without license from IHS
Not for Resale

Scope

This standard covers labels to identify the applicable ANSI Standards used for the design, manufacture, and test of power switchgear equipment for the control and protection of apparatus used for power generation, conversion, transmission, and distribution.

Examples of the above mentioned power switchgear assemblies include, but are not limited to the following:

- Metal-clad switchgear assemblies, indoor and outdoor, including power circuit breakers 4.16 to 38 kV.
- Station-type cubicle switchgear, indoor and outdoor, including stationary power circuit breakers 14.4 kV and above, 1000 MVA interrupting capacity and above.
- Metal-enclosed bus structures and connections, when furnished separate from switchgear assemblies, and not composing a part of metal-enclosed switchgear assemblies as tie circuits.
- Metal-enclosed assemblies, indoor and outdoor, having load interrupter switches, together with any or all of the following: metering and indicating devices.

Copyright National Electrical Manufacturers Association
Provided by IHS under license with NEMA
No reproduction or networking permitted without license from IHS
Not for Resale

Section 1
REFERENCED STANDARDS

In this publication, reference is made to the standards listed below. Copies are available from the indicated sources.

Institute of Electrical and Electronics Engineers
445 Hoes Lane
P.O. Box 1331
Piscataway, NJ 08855-1331

C37.20.1-1987 *Metal-Enclosed Low Voltage Power Circuit Breaker Switchgear*
C37.20.2-1987 *Metal-Clad and Station-Type Cubicle Switchgear*
C37.20.3-1987 *Metal-Enclosed Interrupter Switchgear*
C37.23-1987 *Guide for Metal-Enclosed Bus and Calculating Losses in Isolated-Phase Bus*

Copyright National Electrical Manufacturers Association
Provided by IHS under license with NEMA
No reproduction or networking permitted without license from IHS Not for Resale

Copyright National Electrical Manufacturers Association
Provided by IHS under license with NEMA
No reproduction or networking permitted without license from IHS
Not for Resale

Section 2
STANDARDS LABEL

The following information shall be provided on a separate label attached to each assembly or unit.

1. Designed, manufactured, and tested in accordance with the applicable standard listed in Section 1. (ANSI C37.xx)
2. Manufacturers name and location of where equipment was actually manufactured (state/province, etc. and country).
3. Affiliation (if applicable, NEMA, EEMAC, ORGALIME, etc.)

Copyright National Electrical Manufacturers Association
Provided by IHS under license with NEMA
No reproduction or networking permitted without license from IHS
Not for Resale

Copyright National Electrical Manufacturers Association
Provided by IHS under license with NEMA
No reproduction or networking permitted without license from IHS
Not for Resale

Section 3
STANDARDS LABEL LOCATION

Each power switchgear assembly shall be provided with a standards label in a location so that it is visible from the front of the assembly with opening switchgear doors.

Standards label shall be of a permanent type (i.e., engraved) and attached with rivets or screws.

NEMA Standard 11-5-1991

Copyright National Electrical Manufacturers Association
Provided by IHS under license with NEMA
No reproduction or networking permitted without license from IHS
Not for Resale

NEMA STANDARDIZATION

The purpose of NEMA Standards, their classification and status are set forth in certain clauses of the NEMA *Standardization Policies and Procedures* manual and are referenced below:

Purpose of Standards

National Electrical Manufacturers Association Standards are adopted in the public interest and are designed to eliminate misunderstandings between the manufacturer and the purchaser and to assist the purchaser in selecting and obtaining the proper product for their particular needs. Existence of a National Electrical Manufacturers Association Standard does not in any respect preclude any member or nonmember from manufacturing or selling products not conforming to the standard.

(Standardization Policies and Procedures, p. 1)

Definition of a Standard

A standard of the National Electrical Manufacturers Association defines a product, process or procedure with reference to one or more of the following: nomenclature, composition, construction, dimensions, tolerances, safety, operating characteristics, performance, rating, testing, and the service for which they are designed.

(Standardization Policies and Procedures, p. 2)

Dimensions

Where dimensions are given for interchangeability purposes, alternate dimensions satisfying the other provisions of the Standards Publication may be capable of otherwise equivalent performance.

(Standardization Policies and Procedures, p. 8)

Categories of Standards

National Electrical Manufacturers Association Standards are of three classes:

1. NEMA Standard, which relates to a product, process or procedure commercially standardized and subject to repetitive manufacture, which standard has been approved by at least 90 percent of the members of the Subdivision eligible to vote thereon;
2. Suggested Standard for Future Design, which may not have been regularly applied to a commercial product, but which suggests a sound engineering approach to future development, which standard has been approved by at least two-thirds of the members of the Subdivision eligible to vote thereon.
3. Adoptive Standard, which is adopted in whole or in part from the standards of another organization, either domestic, regional, or international.

(Standardization Policies and Procedures, pp 7 & 16)

Authorized Engineering Information

Authorized Engineering Information consists of explanatory data and other engineering information of an informative character not falling within the classification of NEMA Standard or Suggested Standard for Future Design, which standard has been approved by at least two-thirds of the members of the Subdivision eligible to vote on the standard.

(Standardization Policies and Procedures, pp. 7 & 16)

Official Standards Proposal

An Official Standards Proposal is an official draft of a proposed standard which is formally recommended to an outside organization(s) for consideration, comment and/or approval, and which has been approved by at least 90 percent of the members of the Subdivision eligible to vote thereon. *(Standardization Policies and Procedures, pp 7 & 16)*

Identification of Status

Standards in NEMA Standards Publications are identified in the foreword or following each standard as "NEMA Standard" or "Suggested Standard for Future Design." These indicate the status of the standard. These words are followed by a date which indicates when the standard was adopted in its present form by the Association.

The material identified as "Authorized Engineering Information" and "Official Standards Proposal" is designated similarly.

July 17, 1990

Copyright National Electrical Manufacturers Association
Provided by IHS under license with NEMA
No reproduction or networking permitted without license from IHS
Not for Resale

POWER SWITCHGEAR ASSEMBLIES, LOW & MEDIUM VOLTAGE POWER CIRCUIT BREAKERS, MEDIUM VOLTAGE LOAD INTERRUPTER SWITCHES VOTING CLASSISFICATION

OF THE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION

ABB Power Distribution, Inc.
Switchgear Division
Sanford, FL 32772-1978

ASC Industries, Inc.
North Canton, OH 44720-0523

Challenger Electrical Equipment Corp.
Raleigh, NC 27609

Controlled Power Ltd. Partnership
Canton, OH 44710

Electrical Equipment, Inc.
Birmingham, AL 35215

Electrical Power Systems, Inc.
Tulsa, OK 74131

GE
Burlington, IA 52601

Kearney
Division of Kearney-National, Inc.
Atlanta, GA 30359

Malton Equipment Company
Virginia, MN 55792

Pedersen Power Products
Division of EA Pedersen Company
Omaha, NE 68107

Powercon Corporation
Severn, MD 21144

Power Controls Inc.
Commerce, CA 90040

Power In Control, Inc.
Placentia, CA 92670

The Pringle Electrical
Manufacturing Company
Ft. Washington, PA 19034

Republic Electric & Development Co.
Peoria, IL 61615-1698

Siemens Energy & Automation Inc.
Med-Volt Development Engineering
Raleigh, NC 27626-0503

Square D Company
Palatine, IL 60067

Toshiba International Corporation
Industrial Division
Houston, TX 77041

Westinghouse Electric Corporation
Pittsburgh, PA 15220

Copyright National Electrical Manufacturers Association
Provided by IHS under license with NEMA
No reproduction or networking permitted without license from IHS
Not for Resale