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Heavy Duty Enclosed and Dead-Front Switches (600 Volts Maximum)

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Foreword

This technical publication is intended to provide the minimum requirements for heavy duty enclosed switches.

These standards are periodically reviewed by the Switch 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:

NEMA Technical Operations Department
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This technical publication was developed by the Switch Section. Section approval of the standard does not necessarily imply that all section members voted for its approval or participated in its development. At the time it was approved, the Switch Section was composed of the following members:

ABB Control, Inc.—New Berlin, WI
Boltswitch, Inc.—Crystal Lake, IL
Eaton Electrical—Pittsburgh, PA
Hubbell Incorporated—Shelton, CT
Mersen USA LLC—Newburyport, MA
Siemens Industry, Inc.—Norcross, GA
Square D Company/Schneider Electric—Palatine, IL

Section 1 GENERAL

1.1 SCOPE

This technical publication covers heavy duty enclosed and dead-front switches that are:

- a. Rated at not more than 600 volts and 4000 amperes with or without a horsepower rating. The DC ratings shall be up to and including 600 volts, 1200 amperes.
- b. With or without provision for fuses
- c. With current-carrying parts and mechanisms enclosed in metallic or nonmetallic cases, or that are enclosed when mounted in an enclosed switchboard, panelboard, or the like
- d. Manually operable by means of external handles

Note—These devices may also be automatically operable by means of shunt trips, electrical operation, ground fault devices, or other mechanisms.

This technical publication does not cover:

- a. The common form of snap switches
- b. Switching devices having features intended primarily for the starting and running protection of electric motors as described in NEMA ICS 1, ICS 2, and ICS 3
- c. Circuit-breaker-type power circuit protectors
- d. Molded case switches as described in NEMA AB 1
- e. General duty switches meeting the minimum requirements of UL 98
- f. Fused power-circuit devices as described in UL 117
- g. Pullout switches as described in UL 1429

Fuses, lampholders, receptacles, wire connectors, wires and cables, etc., which may be provided as parts of an enclosed switch, are covered under other NEMA technical publications.

1.2 REFERENCED STANDARDS

National Electrical Manufacturers Association

1200 North 17th Street, Suite 900
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KS 2	<i>Distribution Equipment Switch Application Guide, A User's Reference</i>
KS 3	<i>Guidelines for Inspection and Preventive Maintenance of Switches Used in Commercial and Industrial Applications</i>
FU 1	<i>Low Voltage Cartridge Fuses</i>
AB 1	<i>Molded Case Circuit Breakers and Molded Case Switches</i>
ICS 1	<i>Industrial Control and Systems: General Requirements</i>
ICS 2	<i>Industrial Control and Systems: Controllers, Contactors, and Overload Relays, Rated Not More Than 2000 Volts AC or 750 Volts DC</i>
250	<i>Enclosures for Electrical Equipment (1000 Volts Maximum)</i>