

SECTION 26 28 13 {16491}

FUSES

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This section includes fuses for use in low voltage power distribution circuits.

Manufacturers listed in this section were identified as representative and not as an endorsement for meeting this specification. For additional product information, visit 4Specs at [www.4specs.com](http://www.4specs.com), ARCAT at [www.arcata.com](http://www.arcata.com), First Source at [www.reedfirstsource.com](http://www.reedfirstsource.com), SpecSource at [www.specsource.com](http://www.specsource.com), and Sweets Network at [products.construction.com](http://products.construction.com).

This section includes performance, proprietary, and descriptive type specifications. Edit to avoid conflicting requirements.

Contact the CSRF Support Center at [supportcenter@csrf.org](mailto:supportcenter@csrf.org) to submit comments or suggestions for improvements to this specification. Visit the SPECTEXT web site at [www.spectext.com](http://www.spectext.com) for current product announcements.

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PART 1 GENERAL

1.1 SUMMARY

- A. Section includes fuses [and spare fuse cabinet].

1.2 REFERENCES

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List reference standards included within text of this section. Edit the following for Project conditions.

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- A. National Electrical Manufacturers Association:
  - 1. NEMA FU 1 - Low Voltage Cartridge Fuses.

1.3 DESIGN REQUIREMENTS

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Use this article carefully and only when Contractor has responsibility for selecting or coordinating fuse sizes; restrict statements to identify system design requirements only.

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- A. Select fuses to provide appropriate levels of short circuit and overcurrent protection for the following components: wire, cable, bus structures, and other equipment. Design system to maintain component damage within acceptable levels during faults.

- B. Select fuses to coordinate with time current characteristics of other overcurrent protective elements, including other fuses, circuit breakers, and protective relays. Design system to maintain operation of device closest to fault operates.

#### 1.4 FUSE PERFORMANCE REQUIREMENTS

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This article specifies fuse applications, eliminating need to identify fuse class on drawings.

Class designation is assigned by UL to establish dimensions and certain performance characteristics within broad range; this information is tabulated in NEMA FU 1, and serves as specification standard.

Performance of same Class of fuses by different manufacturer's varies significantly in terms of let through current and energy, coordination with downstream devices, and physical features affecting reliability.

Some manufacturers market fuses with differing electrical characteristics within same class. SPECTEXT indicates these differences with terms "time delay" and "non-time-delay." Time delay fuse characteristics are defined by UL.

Consult manufacturer's literature to select proper type of fuse for each application.

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- A. Main Service Switches Larger than 600 amperes: Class [L [(time delay).] [(fast-acting).] [T.]
- B. Main Service Switches: Class [RK1 [(time delay).] [(non-time-delay).] [RK5.] [J [(non-time-delay).] [(time delay).] [T.]
- C. Power Load Feeder Switches Larger than 600 amperes: Class [L [(time delay).] [(fast-acting).] [T.]
- D. Power Load Feeder Switches: Class [RK1 [(time delay).] [(non-time-delay).] [RK5.] [J [(non-time-delay).] [(time delay).] [T.]
- E. Motor Load Feeder Switches: Class [RK1 (time delay).] [RK5.] [J (time delay).]
- F. Lighting Load Feeder Switches Larger than 600 amperes: Class [L [time delay.] [fast-acting.] [T.]
- G. Lighting Load Feeder Switches: Class [RK1 [(time delay).] [(non-time-delay).] [RK5.] [J [(non-time-delay).] [(time delay).] [T.]
- H. Other Feeder Switches Larger than 600 amperes: Class [L [time delay.] [fast-acting.] [T.]
- I. Other Feeder Switches: Class [RK1 [(time delay).] [(non-time-delay).] [RK5.] [J [(non-time-delay).] [(time delay).] [T.]
- J. General Purpose Branch Circuits: Class [RK1 [(time delay).] [(non-time-delay).] [RK5.] [J [(non-time-delay).] [(time delay).] [T.]