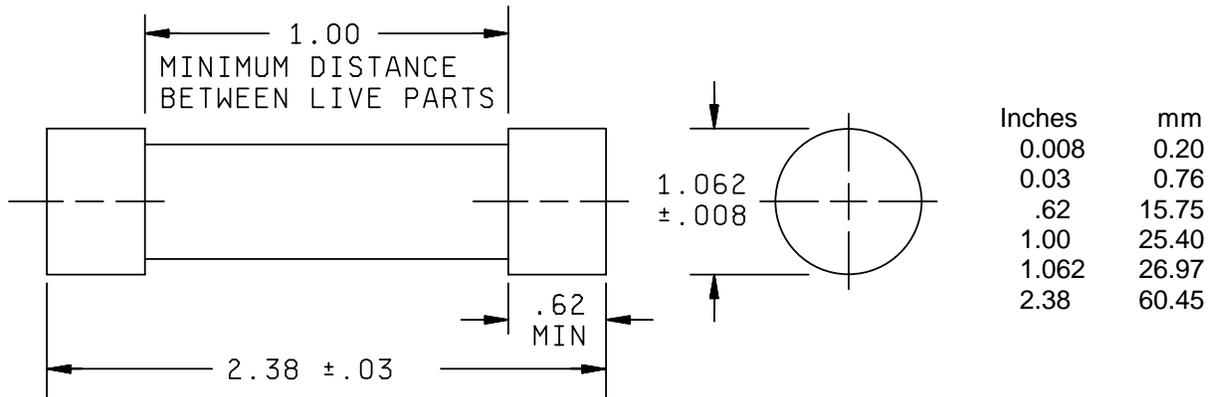


FEDERAL SPECIFICATION SHEET

FUSE, CARTRIDGE, HIGH INTERRUPTING CAPACITY, CLASS J  
 (CURRENT-LIMITING) 600 VOLTS, 31-60 AMPERES

The General Services Administration has authorized the use of this federal specification, by all federal agencies.

The complete requirements for procuring the fuses described herein shall consist of this document and the latest issue of specification W-F-1814.



NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerances are  $\pm 0.02$  (0.51 mm) for two-place decimals and  $\pm 0.005$  (0.13 mm) for three-place decimals.

FIGURE 1. Configuration and dimensions.

W-F-1814/6B

REQUIREMENTS:

Interface and physical dimensions: See figure 1.

Physical: Nonrenewable.

Terminals - Ferrule type:

Material - Brass, copper or copper alloy.

Strength - 5 pound-inches torque between body and ferrules.

Body:

Insulating material - Ceramic, melamine-impregnated glass fiber, or the equivalent.

Electrical:

Voltage - 600 volts or less.

Frequency - 48 Hz to 60 Hz .

Current - See table I.

Current carrying capacity - 110 percent indefinitely with temperature rise not to exceed 85°C above ambient on the body and 50°C on the ferrules.

Overload interrupt - Shall interrupt within 1 hour at 135 percent of rated current and within 4 minutes at 200 percent of rated current.

Interrupting capacity rating - 200,000 amperes rms symmetrical at 600 volts, 60 Hz and a power factor of 20 percent or less. Closing angle shall be essentially at the zero of the voltage wave (maximum offset) or later, to produce start of arcing within 30 electrical degrees prior to system peak voltage.

Threshold ratio - 30 maximum.

Maximum peak let-thru current - See table I.

Maximum clearing  $I^2T$  - See table I.

Applicable fuseholders: Class J for ferrule type fuses in accordance with UL 512.

Part number: See table I.

TABLE I. Electrical characteristics. 1/

Government part number	Current rating (amperes)	Maximum peak let-thru current amperes	Maximum clearing $I^2T \times 10^3$
WF1814/06-001	35	7,500	12
WF1814/06-002	40	8,000	17
WF1814/06-003	45	8,500	18
WF1814/06-004	50	9,000	22
WF1814/06-005	60	10,000	30

1/ For silver plated terminals, the designator "S" is added after the dash number.

MILITARY INTEREST:

Custodians:

Army - CR  
Navy - YD  
Air Force - 11  
DLA - CC

Review Activities:

Army - AT, CR4  
Navy - OS  
NSA - NS

CIVIL AGENCY COORDINATING ACTIVITIES:

GSA - 7FXE  
NASA - NA

Preparing Activity:  
DLA - CC

(Project 5920-0792)