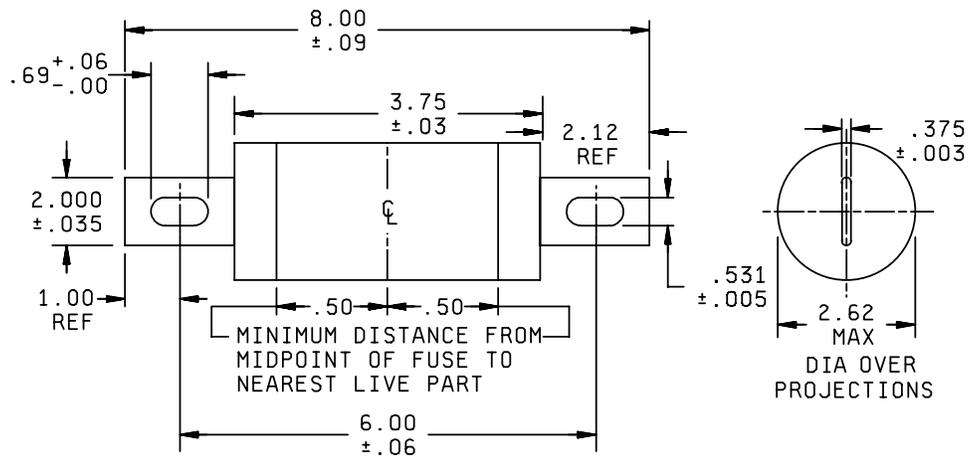


FEDERAL SPECIFICATION SHEET

FUSE, CARTRIDGE, HIGH INTERRUPTING CAPACITY, CLASS J  
(CURRENT-LIMITING) 600 VOLTS, 401-600 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.



Inches	mm	Inches	mm
.03	.08	.69	17.53
.035	.89	1.00	25.40
.06	1.52	2.000	50.80
.09	2.29	2.12	53.85
.375	9.53	2.62	66.55
.50	12.70	3.75	95.25
.531	13.49	6.00	152.40
.581	14.76	8.00	203.20

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.

REQUIREMENTS:

Interface and physical dimensions: See figure 1.

Physical: Nonrenewable.

Terminals - Knife blade type:

Materials - Brass, copper or copper alloy.

Strength - 20 pound-inches torque between body and knife blades.

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 75°C on the ferrules.

Overload interrupt - Shall interrupt within 2 hours at 135 percent of rated current and within 12 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 blade 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 $I^2T \times 10^3$
WF1814/10-001	450	35,000	1,500
WF1814/10-002	500	42,000	2,000
WF1814/10-003	600	45,000	2,500

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 5920-0796)