

REQUIREMENTS:

Interface and physical dimensions: See [figure 1](#).

Physical: Nonrenewable.

Terminals: Knife blade type.

Material: 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 of rated current indefinitely with temperature rise on the terminals not to exceed 65°C above the calibration temperature rise of the test equipment.

Overload interrupt:

Instantaneous: Shall interrupt within 240 minutes at 150 percent of rated current.

Time delay: In addition to the above requirement, the fuse shall not interrupt 500 percent of rated current within 4 seconds.

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: 40 maximum.

Peak let-thru current: 200×10^3 amperes maximum.

Maximum clearing I^2T : 100×10^6 ampere² seconds.

Applicable fuseholding device: Fuseholding devices shall provide mounting holes to correspond with those in the fuse as specified. All fuses shall be bolted into fuseholding device during operation.

Part or Identifying Number (PIN): See [table I](#).

W-F-1814/52D

TABLE I. Electrical characteristics.

Government PIN	Current rating (amps)	Overload interrupt
WF1814/52-001	3000	Instantaneous
WF1814/52-002	3000	Time delay <u>1/</u>

1/ Should not be considered for use in new design.

The margins of this specification sheet are marked with vertical lines to indicate where changes from the previous issue were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous issue.

MILITARY INTEREST:

Custodians:

- Army - CR
- Navy - YD
- Air Force - 85
- DLA - CC

Review activities:

- Army - AR, AT
- Navy - OS
- NSA - NS

CIVIL AGENCY COORDINATING ACTIVITIES:

GSA - FAS

Preparing activity:

DLA - CC

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NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.dla.mil>.