

INCH-POUND

MIL-PRF-15160/20D

4 May 2001

SUPERSEDING

MIL-PRF-15160/20C

12 October 1999

PERFORMANCE SPECIFICATION SHEET

FUSES, INSTRUMENT, POWER, AND TELEPHONE  
(NONINDICATING), STYLE F20

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification and MIL-PRF-15160.

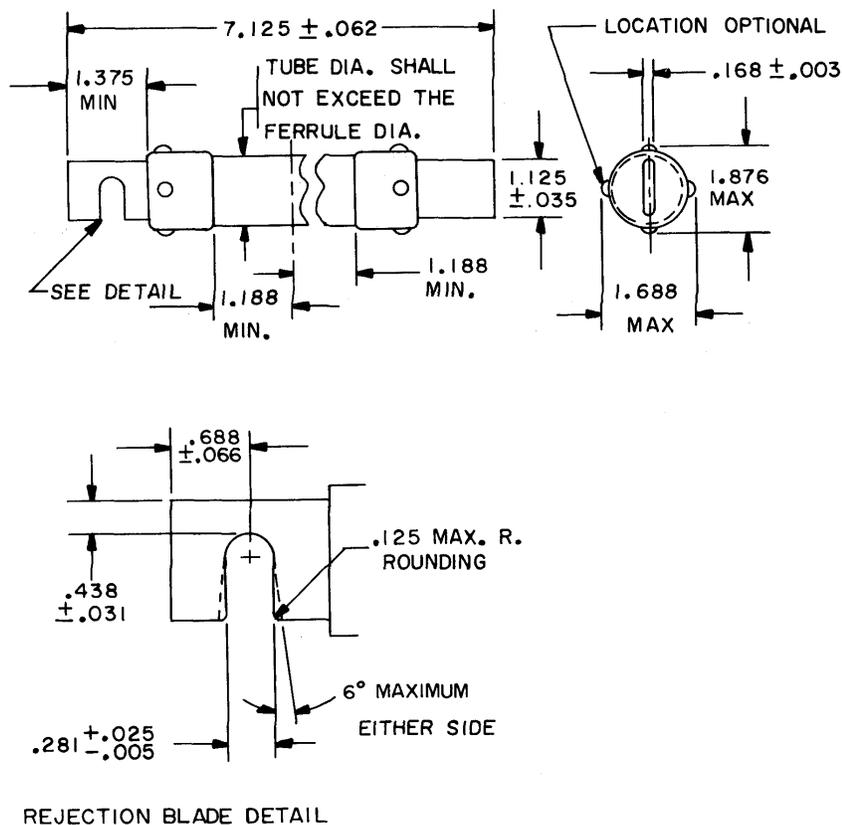


FIGURE 1. Style F20, characteristic BR.

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Inches	mm	Inches	mm	Inches	mm
0.003	0.08	0.062	1.57	1.125	28.58
0.005	0.13	0.125	3.18	1.188	30.18
0.008	0.20	0.187	4.75	1.375	34.92
0.025	0.64	0.281	7.14	1.688	42.88
0.031	0.79	0.438	11.13	1.876	47.65
0.035	0.89	0.688	17.50	7.125	180.98

NOTES:

1. Dimensions are in inches.

FIGURE 1. Style F20 characteristic BR - continued.

REQUIREMENTS:

Interface and physical dimensions: See figure 1.

Case: Fiber or alternate material.

(Alternate to fiber material (tube) shall have an average burst strength of 2,300 pounds per square inch with a value of not less than 1,900 pounds per square inch).

Knifeblade: Copper.

Finish: Nickel, bright alloy, or bright dipped, silver plated when specified.

Terminal strength: Method 211 of MIL-STD-202, test condition E, 5 inch-pound torque between ferrules and fuse body.

Electrical:

Electrical requirements shall be as specified in table I.

Shock: Method 207 of MIL-STD-202, HI shock.

Vibration: Method 204 of MIL-STD-202, test condition A (except 5g peak).

Temperature: Temperature rise shall be not greater than the values shown in table II.

TABLE I Electrical requirements.

Characteristics	BR
Voltage rating	250 V ac 250 V dc
Overload test <u>1/</u> 135% 500%	0 – 2 hour 10 – 25 seconds
Short circuit test at 250 V dc at 250 V ac	10,000A 200,000A (20% PF max.) <u>2/</u>

1/ Overload is shown as a percentage of the current rating of the fuse.

2/ Power factor (PF).

TABLE II. Allowable temperature rise in degrees Celsius (°C).

Casing of body		Terminals	
Thermometer	Thermocouple	Thermometer	Thermocouple
50 °C	90 °C	60 °C	90 °C

Type designation: Type designation shall be as specified in table III.

TABLE III Type designations and electrical rating. 1/ 2/

Style	Characteristic	Maximum voltage	Current rating
F20	BR <u>3/</u>	250V	110A
F20	BR <u>3/</u>	250V	125A
F20	BR <u>3/</u>	250V	150A
F20	BR <u>3/</u>	250V	175A
F20	BR <u>3/</u>	250V	200A

1/ For silver plated terminals, the designator “S” is added after the current rating.

2/ The characteristic A fuse has been discontinued without replacement.

3/ The characteristic B fuse has been discontinued. The characteristic BR fuse may be used to replace the old characteristic B fuse of the same current rating.

VERIFICATION:

Qualification inspections: The number of qualification samples required shall be:

- a. 24 samples maximum current rating of each voltage and design.
- b. 24 samples minimum current rating of each voltage and design.

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NOTE: If labels are used, five additional samples of any rating are required.

Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

Custodians:

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

Preparing activity:

DLA - CC

(Project 5920-0718)

Review activities:

Army - AR, AT, CR4, MI  
Navy - AS, CG, MC, OS, YD  
Air Force - 19, 99