

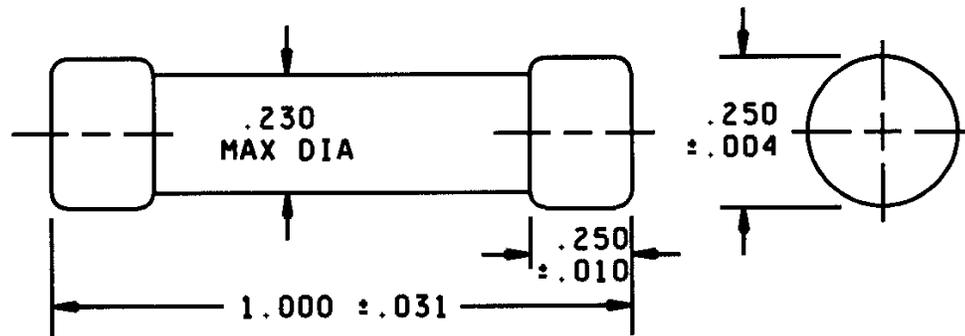
[INCH-POUND]  
 MIL-PRF-15160/1F  
 31 March 2004  
 SUPERSEDING  
 MIL-PRF-15160/1E  
 12 October 1999

PERFORMANCE SPECIFICATION SHEET

FUSES, INSTRUMENT, POWER, AND TELEPHONE  
(NONINDICATING), STYLE F01

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.



Inches	mm
0.004	0.10
0.010	0.25
0.031	0.79
0.230	5.84
0.250	6.35
1.000	25.40

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.

FIGURE 1. Style F01, fuse.

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REQUIREMENTS:

Interface and physical dimensions: See figure 1.

Terminals: Ferrule type.

Material: Brass, copper, phosphor bronze, or copper alloy.

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

Strength: Method 211 of MIL-STD-202, test condition E, 10 inch-ounce torque between ferrules and fuse body.

Body: Glass tube.

Electrical:

Current rating: See table I.

Voltage rating: See table I.

Characteristic: See table I.

Resistance: See table I.

Overload interrupt: Maximum 1 hour at 135 percent of rated current and a maximum of 5 seconds at 200 percent of rated current.

Short circuit interrupt: See table I.

Shock: 1/100 ampere through 5 ampere; Method 213 of MIL-STD-202, test condition I.

Vibration: 1/100 ampere through 5 amperes; Method 204 of MIL-STD-202, test condition A (except 5g peak).

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

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TABLE I. Type designation. <sup>1/</sup>

Type designation				Maximum resistance ohms <sup>2/</sup>	AC short circuit interrupt.		
Style	Characteristic	Maximum voltage	Current rating <sup>3/</sup> (amperes)		32 volts	125 volts	250 volts
F01	A	250V	1/500A	6,500	10,000A	100A	35A
F01	A	250V	1/200A	1,000	10,000A	100A	35A
F01	A	250V	1/100A	600	10,000A	100A	35A
F01	A	250V	1/32A	70	10,000A	100A	35A
F01	A	250V	1/16A	40	10,000A	100A	35A
F01 <sup>1/</sup>	A	250V	1/10A	9.8	10,000A	100A	35A
F01	A	250V	1/8A	9.5	10,000A	100A	35A
F01 <sup>1/</sup>	A	250V	3/16A	8.7	10,000A	100A	35A
F01 <sup>1/</sup>	A	250V	2/10A	8.5	10,000A	100A	35A
F01	A	250V	1/4A	8.2	10,000A	100A	35A
F01	A	250V	3/8A	6.2	10,000A	100A	35A
F01 <sup>1/</sup>	A	250V	4/10A	4.5	10,000A	100A	35A
F01	A	250V	1/2A	3.7	10,000A	100A	35A
F01 <sup>1/</sup>	A	125V	6/10A	2.5	10,000A	100A	Not rated
F01	A	125V	3/4A	1.7	10,000A	100A	Not rated
F01 <sup>1/</sup>	A	125V	8/10A	1.4	10,000A	100A	Not rated
F01	A	125V	1A	1.3	10,000A	100A	Not rated
F01 <sup>1/</sup>	A	125V	1 1/4A	1.00	10,000A	100A	Not rated
F01	A	125V	1 1/2A	0.21	10,000A	100A	Not rated
F01 <sup>1/</sup>	A	125V	1 6/10A	0.16	10,000A	100A	Not rated
F01	A	125V	2A	0.12	10,000A	100A	Not rated
F01 <sup>1/</sup>	A	125V	2 1/2A	N/A	10,000A	10,000A	Not rated
F01 <sup>1/</sup>	A	125V	3A	N/A	10,000A	10,000A	Not rated
F01 <sup>1/</sup>	A	125V	3 2/10A	N/A	10,000A	10,000A	Not rated
F01 <sup>1/</sup>	A	125V	4A	N/A	10,000A	10,000A	Not rated
F01 <sup>1/</sup>	A	125V	5A	N/A	10,000A	10,000A	Not rated

<sup>1/</sup> Inactive for new design after 30 January 1970.

<sup>2/</sup> Cold resistance at not greater than 10 percent load.

<sup>3/</sup> For silver plated terminals, the designator "S" is added after the current rating.

## INSPECTION ROUTINE:

Overload tests (group II): Fuses for the overload interrupt test shall be selected and tested as specified in table II for qualification test.

TABLE II. Overload tests.

Overload <sup>1/</sup> (percent)	Number of samples		
	1/2A	2A	5A
135	4	4	4
200	4	4	---

<sup>1/</sup> Room ambient.

Short circuit interrupt (group III): Four sample fuses of each rating shown in table III shall be tested at the values specified, followed by the insulation resistance test in accordance with MIL-PRF-15160 for qualification, and qualification retention. The ac voltage used shall be not less than the circuit voltage indicated and the fuses shall withstand the short circuits specified. Insulation resistance tests shall be conducted within 1 minute following the short circuit test.

TABLE III. Short circuit tests.

Current rating	Short circuit current	AC test voltage
1/2A	35A	250
2A	100A	125
5A	10,000A	125

Cross-reference: For applicable cross-reference see table IV. The existing stocks of superseded items may be used. When exhausted, the superseding parts shall be used.

TABLE IV. Cross reference.

Superseding number	Superseded numbers							
	81349	96906	71400	71400	75915	75915	75915	98997
F01A250V1/500A <u>1/</u>	F01GR002A <u>1/</u>	MS90077-1 <u>2/</u>	AGX1/500	8AG1/500	361.005		364.002	
F01A250V1/200A	F01GR005A	MS90077-2	AGX1/200	8AG1/200	361.002		364.005	
F01A250V1/100A	F01GR010A	MS90077-3	AGX1/100	8AG1/100	361.010		364.010	
F01A250V1/32A	F01GR031A	MS90077-4	AGX1/32	8AG1/32	361.031		364.031	
F01A250V1/16A	F01GR062A	MS90077-5	AGX1/16	8AG1/16	361.062		364.062	8AG1/16
F01A250V1/10A	F01GR100A		AGX1/10	8AG1/10	361.100		364.100	8AG1/10
F01A250V1/8A	F01GR125A	MS90077-6	AGX1/8	8AG1/8	361.125	362.125	364.125	8AG1/8
F01A250V3/16A			AGX3/16	8AG3/16	361.187		364.187	8AG3/16
F01A250V2/10A			AGX2/10	8AG2/10	361.200		364.200	8AG2/10
F01A250V1/4A	F01GR250A	MS90077-7	AGX1/4	8AG1/4	361.250	362.250	364.250	8AG1/4
F01A250V3/8A	F01GR375A	MS90077-8	AGX3/8	8AG3/8	361.375	362.375	364.375	8AG3/8
F01A250V4/10A			AGX4/10	8AG4/10	361.400		364.400	8AG4/0
F01A250V1/2A	F01GR500A	MS90077-9	AGX1/2	8AG1/2	361.500	362.500	364.500	8AG1/2
F01A125V6/10A			AGX6/10	8AG6/10				8AG6/10
F01A125V3/4A	F01GR750A	MS90077-10	AGX3/4	8AG3/4	361.750	362.750	364.750	8AG3/4
F01A125V8/10A			AGX8/10	8AG8/10				8AG8/10
F01A125V1A	F01G1R00A	MS90077-11	AGX1	8AG1	361001	362001	364001	8AG1
F01A125V1 1/4A				8AG1 1/4				8AG1 1/4
F01A125V1 1/2A	F01G1R50A	MS90077-12	AGX1 1/2	8AG1 1/2	36101.5	36201.5	36401.5	8AG1 1/2
F01A125V1 6/10A				8AG1 6/10				8AG1 6/10
F01A125V2A	F01G2R00A	MS90077-13	AGX2	8AG2	361002	362002	364002	8AG2
F01A125V2 1/2A			AGX2 1/2					
F01A125V3A			AGX3		361003	362003		
F01A125V3 1/2A			AGX3 1/2					
F01A125V4A			AGX4		361004			
F01A125V5A			AGX5		361005	362005		

1/ A letter "S" following the part number signifies silver plating.

2/ A second dash number (-1) signifies silver plating.

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Reference documents. In addition to MIL-PRF-15160/1, this document references the following:

MIL-PRF-15160 MIL-STD-202

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 5920-0830)

Review activities:

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

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 [www.dodssp.daps.mil](http://www.dodssp.daps.mil).