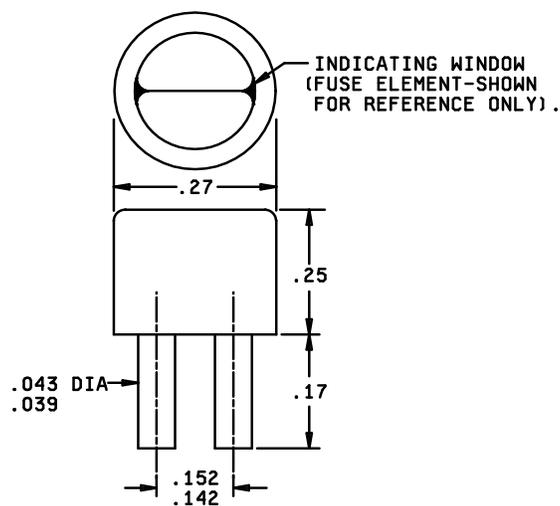


PERFORMANCE SPECIFICATION SHEET

FUSES, INSTRUMENT TYPE,  
STYLE FM01 (INDICATING)

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 sheet and [MIL-PRF-23419](#).



Inches	mm
.039	0.99
.043	1.09
.142	3.61
.152	3.86
.17	4.3
.25	6.4
.27	6.9

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerance is  $\pm 0.02$  (0.5 mm).

FIGURE 1. Style FM01 fuses.



REQUIREMENTS:

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

Applicable fuseholder: [MIL-PRF-19207/26](#), type FHN42W.

Case material: Ceramic.

Terminals:

Material: Brass.

Finish: See [table I](#).

Strength: 9 pounds.

Current rating, nominal: See [table I](#).

Voltage rating: See [table I](#).

Current carrying capacity: 100 percent (at all temperatures between -55°C and +85°C). Connecting wire shall be #14 and fuseholders shall not be spaced closer than 1 inch (25.4 mm) apart.

Resistance: Not applicable.

Overload interrupt: See [table I](#).

Short circuit interrupt: See [table I](#).

Shock:

Method I for fuses rated 1/64A or less.

Method II for fuses rated more than 1/64A.

Thermal shock: [Method 107 of MIL-STD-202](#), test condition B.

Characteristic: See [table I](#).

Part or Identifying Number (PIN): The PIN is derived from [table I](#) and shall be as shown in [table IV](#).

Marking: Fuses shall be legibly and permanently marked with the manufacturer's name or trademark and PIN designation. Style, voltage and amperage may be applied in separate rows, if required by space limitations or printing technique limitations.

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TABLE I. PIN designation identification.

PIN designation				Terminal finish	Short circuit interrupt rating (amperes)			Overload interrupt time (seconds) <sup>2/</sup>	
Style	Characteristic	Max. voltage	Current rating (amps)		Circuit voltage <sup>1/</sup>			200 percent nominal rating	300 percent nominal rating
					28 volts		125 volts		
					AC	DC	AC		
<del>FM01</del>	A	<del>125V</del>	<del>1/200A</del> <sup>3/</sup>	Tin plate	3,000	3,000	60	.003 - .0004	.0005 - .0001
FM01	A	125V	1/100A					.005 - .0008	.0005 - .0001
<del>FM01</del>	A	<del>125V</del>	<del>1/64A</del> <sup>3/</sup>					.001 - .0005	.0005 - .0001
<del>FM01</del>	A	<del>125V</del>	<del>1/32A</del> <sup>3/</sup>					.006 - .001	.001 - .0003
FM01	A	125V	1/16A					.050 - .010	.010 - .003
FM01	A	125V	1/10A					.040 - .010	.010 - .004
FM01	A	125V	1/8A					.050 - .010	.012 - .004
<del>FM01</del>	A	<del>125V</del>	<del>2/10A</del> <sup>3/</sup>					.055 - .014	.012 - .005
FM01	A	125V	1/4A					.040 - .014	.012 - .005
FM01	A	125V	3/10A					.037 - .013	.012 - .005
FM01	A	125V	4/10A		.042 - .015	.014 - .005			
FM01	A	125V	1/2A		.035 - .015	.015 - .005			
FM01	A	125V	6/10A		1,500	1,500	.090 - .020	.018 - .008	
FM01	A	125V	3/4A		.090 - .020	.018 - .008			
FM01	A	125V	1A		.050 - .018	.018 - .008			
FM01	A	125V	1-1/2A		.050 - .020	.020 - .008			
FM01	A	125V	2A		.060 - .020	.020 - .010			
FM01	A	125V	3A		.110 - .025	.023 - .010			
FM01	A	125V	4A		.300 - .040	.033 - .015			
FM01	A	125V	5A		.300 - .040	.033 - .015			

<sup>1/</sup> Alternating current - 60 Hz.

<sup>2/</sup> The time ranges, as shown, cover the temperature range from -55° C through +85° C.

<sup>3/</sup> PIN no longer manufactured. It is canceled without replacement.

Qualification and group C inspection:

Inspection routine. The number of group II samples for qualification and subgroup 2 samples for group C inspection shall be as shown in [table II](#).

TABLE II. Group II and subgroup 2 samples.

Inspection	Number of sample fuses
Group II and subgroup 2	16
Terminal strength	4
Overload interrupt	
200 percent at -55°C	4
200 percent at +85°C	4
300 percent at -55°C	4
300 percent at +85°C	4

The number of group III samples for qualification (or first article) and subgroup 1 for group C testing shall consist of the number of sample units shown in [table III](#). Short circuit interrupt tests shall be conducted at the voltage indicated, and the fuses shall be capable of withstanding a minimum short circuit current as shown in [table III](#).

TABLE III. Sampling for short circuit qualification and group C tests.

Current rating (amps)	Short circuit current (amps)			Number of sample units
	28 Volts		125 Volts	
	AC	DC	AC	
1/200	3000		60	12
1/10	3000			12
1/8	1500			12
5	1500		60	12

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Supersession and cross reference: The superseding items include the requirements of the superseded items. The existing stocks of superseded items may be used. When exhausted, the superseding items shall be used (see [table IV](#)).

TABLE IV. Cross-reference.

Superseding PIN	Superseded numbers	
	CAGE 81349	CAGE 81349
FM01A125V1/200A <u>1/</u>	FM01-125V 1/200A	M23419/1-001
FM01A125V1/100A	FM01-125V 1/100A	M23419/1-002
FM01A125V1/64A <u>1/</u>	FM01-125V 1/64A	M23419/1-003
FM01A125V1/32A <u>1/</u>	FM01-125V 1/32A	M23419/1-004
FM01A125V1/16A	FM01-125V 1/16A	M23419/1-005
FM01A125V1/10A	FM01-125V 1/10A	M23419/1-006
FM01A125V1/8A	FM01-125V 1/8A	M23419/1-007
FM01A125V2/10A <u>1/</u>	FM01-125V 2/10A	M23419/1-008
FM01A125V1/4A	FM01-125V 1/4A	M23419/1-009
FM01A125V3/10A	FM01-125V 3/10A	M23419/1-010
FM01A125V4/10A	FM01-125V 4/10A	M23419/1-011
FM01A125V1/2A	FM01-125V 1/2A	M23419/1-012
FM01A125V6/10A	FM01-125V 6/10A	M23419/1-013
FM01A125V3/4A	FM01-125V 3/4A	M23419/1-014
FM01A125V1A	FM01-125V 1A	M23419/1-015
FM01A125V1-1/2A	FM01-125V 1-1/2A	M23419/1-016
FM01A125V2A	FM01-125V 2A	M23419/1-017
FM01A125V3A	FM01-125V 3A	M23419/1-018
FM01A125V4A	FM01-125V 4A	M23419/1-019
FM01A125V5A	FM01-125V 5A	M23419/1-020

1/ PIN no longer manufactured. It is canceled without replacement.

Referenced documents. In addition to [MIL-PRF-23419](#), this document references the following:

[MIL-STD-202](#) [MIL-PRF-19207/26](#)

The margins of this specification 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.

Custodians:

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

Preparing activity:  
DLA - CC

(Project: 5920-2015-035)

Review activities:

Army; - AR, CR4, MI  
Navy - AS, MC, OS  
Air Force: - 19, 99  
NSA - NS

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>.