

# Fast-Acting $1\frac{3}{32}$ " x $1\frac{1}{2}$ " (10x38mm) Midget Fuses, 600Vac/dc, $\frac{1}{10}$ -30A

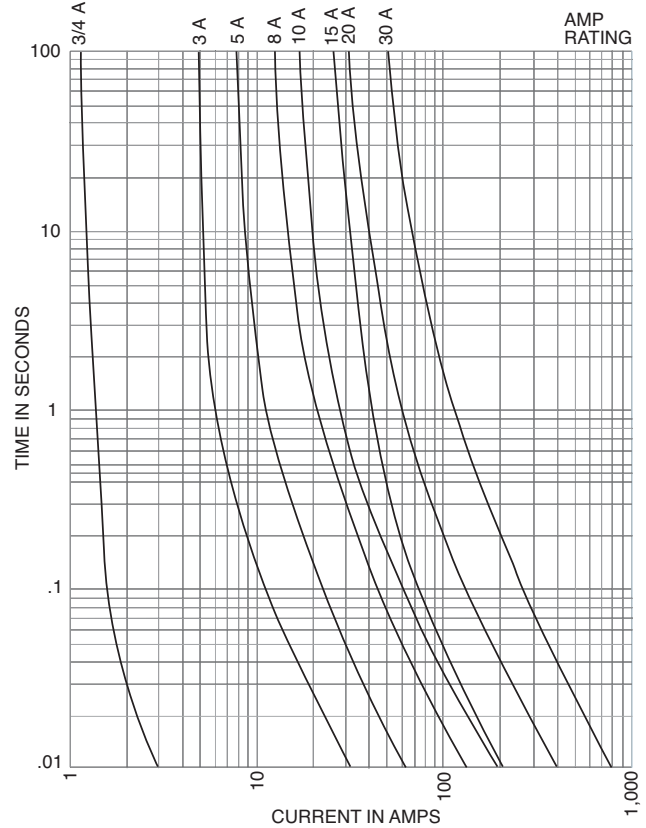
## KLM Series



Dimensions - in (mm)



Time-Current Characteristic Curves—Total Clearing



**Catalog Symbol:** KLM  
**Fast-Acting**  $\frac{1}{10}$ -30A  
**UL Listed:** STD. 248-14, (FILE #E19180, GUIDE #JDYX)  
**CSA Certified,** C22.2 NO. 248. 14 (CLASS #1422-01, FILE #53787)  
**Interrupting Ratings:** 100kA at 600Vac  
 50kA at 600Vdc

**Electrical Ratings (Catalog Symbol and Amps) IR 100kA AC**

KLM- $\frac{1}{10}$	KLM- $\frac{1}{8}$	KLM-2	KLM-6	KLM-12
KLM- $\frac{1}{4}$	KLM- $\frac{3}{8}$	KLM-2- $\frac{1}{2}$	KLM-7	KLM-15
KLM- $\frac{1}{2}$	KLM-1	KLM-3	KLM-8	KLM-20
KLM- $\frac{3}{4}$	KLM-1- $\frac{1}{4}$	KLM-4	KLM-9	KLM-25
KLM-30	KLM-1- $\frac{1}{2}$	KLM-5	KLM-10	KLM-30

**Designed To:**

<b>Fuses:</b> KLM $\frac{1}{10}$ thru 30	<b>Designed to:</b> Carry 110% of rating for 4 hours AC Opens at 135% of rating within 1 hour AC Maximum Interrupting Rating of 100kA at 600Vac DC Maximum Interrupting Rating of 50kA at 600Vdc DC Minimum Interrupting Rating of 200% rated current at 600Vdc.
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**Carton Quantity and Weight**

Amp Ratings	Carton Qty.	Weight	
		Lbs.	Kg.
0-30	10	0.187	0.088

- A full range DC midget fuse.
- Melamine tube.
- Nickel-plated brass endcaps.

**Recommended fuse blocks/fuse holders**  
**See Data Sheets listed below**

- Open fuse blocks - 1104, 2104
- Finger-safe fuse holders - 1109, 1102, 1103, 2053
- Panel-mount fuse holders - 2114, 2113, 2108, 2112, 2109, 2140
- In-line fuse holders - 2127, 2126

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# Military Qualified Product Listing

## MIL-F-15160 Fuses - Instruments, Power and Telephone

<p><b>Military Standard MIL-F-15160/01</b> <b>1/4" x 1" Fuses</b></p> <p>F01A125V<sup>1/10</sup>A* F01A125V<sup>3/10</sup>A F01A125V<sup>1/10</sup>A F01A125V1A F01A125V1<sup>1/4</sup>A F01A125V1<sup>1/2</sup>A F01A125V1<sup>3/10</sup>A* F01A125V2A F01A125V2<sup>1/2</sup>A F01A125V3A F01A125V3<sup>1/10</sup>A F01A125V4A F01A125V5A F01A250V<sup>1/2</sup>A</p> <p>*** Commercial version is AGX Series. See Data Sheet 2041 for more information.</p>	<p><b>Military Standard MIL-F-15160/02</b> <b>1/4" x 1 1/4" Fuses</b></p> <p>F02A32V15A F02A32V20A F02A32V25A F02A32V30A</p> <p>F02B32V8A F02B32V10A F02B32V12A F02B32V15A</p> <p>F02A125V8A F02A125V10A</p> <p>F02A250V<sup>1/2</sup>A F02A250V<sup>3/10</sup>AS** F02A250V<sup>3/10</sup>A F02A250V1A F02A250V1<sup>1/4</sup>A F02A250V1<sup>1/2</sup>A F02A250V1<sup>3/10</sup>A F02A250V2A F02A250V2<sup>1/2</sup>A F02A250V3A F02A250V4A F02A250V5A F02A250V6A</p> <p>*** Commercial version is AGC Series. See Data Sheet 2001 for more information.</p>	<p><b>Military Standard MIL-F-15160/02</b> <b>1/4" x 1 1/4" Fuses</b></p> <p>F02B125V4A F02B125V5A F02B125V6<sup>1/4</sup>A F02B125V7A</p> <p>F02B250V<sup>1/100</sup>A F02B250V<sup>3/100</sup>A F02B250V<sup>2/100</sup>A F02B250V<sup>1/100</sup>A F02B250V<sup>3/100</sup>A F02B250V<sup>1/100</sup>A* F02B250V<sup>1/2</sup>A F02B250V<sup>3/100</sup>A F02B250V<sup>1/100</sup>A F02B250V<sup>1/100</sup>A F02B250V1A F02B250V1<sup>1/4</sup>A F02B250V1<sup>1/2</sup>A F02B250V1<sup>3/100</sup>A F02B250V2A F02B250V2<sup>1/2</sup>A F02B250V2<sup>3/100</sup>S** F02B250V3A F02B250V3<sup>3/100</sup>A*</p> <p>*** Commercial version is MDL Series. See Data Sheet 2004 for more information.</p>	<p><b>Military Standard MIL-F-15160/03</b> <b>1/4" x 1 1/4" Fuses</b></p> <p>F03A125V20A F03A125V25A F03A125V30A</p> <p>F03A250V1A F03A250V1<sup>1/4</sup>A F03A250V1<sup>1/2</sup>A F03A250V2A F03A250V3A F03A250V4A F03A250V5A F03A250V6A F03A250V8A F03A250V10A F03A250V12A F03A250V15A</p> <p>*** Commercial version is ABC Series. See Data Sheet 2000 for more information.</p>
<p><b>Military Standard MIL-F-15160/03</b> <b>1/4" x 1 1/4" Fuses</b></p> <p>F03B125V4A F03B125V5A F03B125V6<sup>1/4</sup>A F03B125V7A F03B125V8A F03B125V10A F03B125V12A F03B125V15A F03B125V20A F03B125V25A F03B125V30A</p> <p>F03B250V<sup>1/100</sup>A F03B250V<sup>1/100</sup>A F03B250V<sup>1/100</sup>A F03B250V<sup>3/100</sup>A F03B250V<sup>1/100</sup>A F03B250V<sup>3/100</sup>A* F03B250V<sup>3/100</sup>A F03B250V<sup>1/100</sup>A F03B250V<sup>3/100</sup>A F03B250V<sup>1/100</sup>A F03B250V<sup>3/100</sup>A* F03B250V1A F03B250V1<sup>1/4</sup>A F03B250V1<sup>1/2</sup>A F03B250V1<sup>3/100</sup>A F03B250V2A F03B250V2<sup>1/2</sup>A* F03B250V2<sup>3/100</sup>A* F03B250V3A F03B250V3<sup>3/100</sup>A</p> <p>*** Commercial version is MDA Series. See Data Sheet 2002 for more information.</p>	<p><b>Military Standard MIL-F-15160/09</b> <b>1 3/32" x 1 1/2" Fuses</b></p> <p>F09A250V1A F09A250V2A F09A250V3A F09A250V3<sup>1/2</sup>A F09A250V4AS** F09A250V5A F09A250V6A F09A250V6<sup>1/4</sup>AS** F09A250V7A F09A250V8A F09A250V10A F09A250V15A F09A250V20A F09A250V25A F09A250V30A</p> <p>*** Commercial version is BAN Series. See Data Sheet 2046 for more information.</p>	<p><b>Military Standard MIL-F-15160/05</b></p> <p>F05A and F05B series cancelled without replacement on January 1976.</p> <p><b>Military Standard MIL-F-15160/06</b></p> <p>F06A and F06B series are inactive for new design after January 1970. Non-military equivalent is ABS Series.</p> <p><b>Military Standard MIL-F-15160/07</b></p> <p>F07A and F07B series are inactive for new design after January 1970. Non-military equivalent is AGU Series.</p>	<p><b>Military Standard MIL-F-15160/09</b> <b>1 3/32" x 1 1/2" Fuses</b></p> <p>F09B32V20A* F09B32V25A F09B32V30A F09B125V15A</p> <p>F09B250V<sup>1/100</sup>A** F09B250V<sup>1/100</sup>A F09B250V<sup>1/100</sup>A F09B250V<sup>3/100</sup>A F09B250V<sup>1/100</sup>A* F09B250V<sup>1/2</sup>A* F09B250V<sup>3/100</sup>A F09B250V1A F09B250V1<sup>1/4</sup>A F09B250V1<sup>3/100</sup>A F09B250V2A F09B250V2<sup>1/2</sup>A F09B250V2<sup>3/100</sup>S** F09B250V3<sup>3/100</sup>A F09B250V3<sup>1/2</sup>AS** F09B250V4A F09B250V5A F09B250V5<sup>3/100</sup>A F09B250V6<sup>1/4</sup>A F09B250V8A F09B250V10A</p> <p>*** Commercial version is FNM Series. See Data Sheet 2028 for more information.</p>

Note: When silver-plated fuse caps are required, simply suffix the letter "S" to the Type Designation Number; i.e., "F02A250V<sup>1/2</sup>AS."

\*Indicates a product not available with silver-plated caps.

\*\*Indicates a product available only with silver-plated caps.

\*\*\* Commercial equivalent part number is for basic design reference only. Not intended to be used as a substitute for the military part number.

## Military Qualified Product Listing

### MIL-F-15160 Fuses - Instruments, Power and Telephone

<p><b>Military Standard MIL-F-15160/10</b> <b>1<sup>3</sup>/<sub>32</sub>" x 1<sup>1</sup>/<sub>2</sub>" Fuses</b></p> <p>F10A250V1A F10A250V2A F10A250V3A F10A250V4AS** F10A250V5A F10A250V6AS** F10A250V8AS** F10A250V10A F10A250V15A F10A125V20AS** F10A125V30A*</p> <p>*** Commercial version is MIN Series. See Data Sheet 2047 for more information.</p>	<p><b>Military Standard MIL-F-15160/15</b> <b>9<sup>1</sup>/<sub>16</sub>" x 2" Fuses</b></p> <p>F15A250V1A F15A250V3A F15A250V6A F15A250V10A F15A250V15A F15A250V20A F15A250V25A F15A250V30A</p>	<p><b>Military Standard MIL-F-15160/15</b> <b>9<sup>1</sup>/<sub>16</sub>" x 2" Fuses</b></p> <p>F15BR250V1A F15BR250V1<sup>9</sup>/<sub>10</sub>A F15BR250V2A F15BR250V2<sup>1</sup>/<sub>2</sub>A F15BR250V3<sup>3</sup>/<sub>10</sub>AS** F15BR250V4AS** F15BR250V5A F15BR250V6<sup>1</sup>/<sub>4</sub>A* F15BR250V8A F15BR250V10A F15BR250V12A F15BR250V20A F15BR250V25A F15BR250V30A</p> <p>F15BR replaced F15B in October 1990.</p> <p>*** Commercial version is FRN-R Series. See Data Sheet 1019 for more information.</p>	<p><b>Military Standard MIL-F-15160/16</b> <b>1<sup>3</sup>/<sub>16</sub>" x 3" Fuses</b></p> <p>F16A250V35A F16A250V40A F16A250V45A* F16A250V50A F16A250V60A</p>
<p><b>Military Standard MIL-F-15160/16</b> <b>1<sup>3</sup>/<sub>16</sub>" x 3" Fuses</b></p> <p>F16BR250V35A F16BR250V40A F16BR250V45A F16BR250V50A F16BR250V60A</p> <p>F16BR replaced F16B in October 1990.</p> <p>*** Commercial version is FRN-R Series. See Data Sheet 1019 for more information.</p>	<p><b>Military Standard MIL-F-15160/19</b> <b>1" x 5<sup>1</sup>/<sub>8</sub>" Fuses</b></p> <p>F19BR250V70A F19BR250V80A F19BR250V90A F19BR250V100A</p> <p>F19BR replaced F19B in October 1990.</p> <p>*** Commercial version is FRN-R Series. See Data Sheet 1020 for more information.</p>	<p><b>Military Standard MIL-F-15160/20</b> <b>1<sup>1</sup>/<sub>2</sub>" x 7<sup>1</sup>/<sub>8</sub>" Fuses</b></p> <p>F20BR250V110A F20BR250V125A F20BR250V150A F20BR250V175A F20BR250V200A</p> <p>F20BR replaced F20B in October 1990.</p> <p>*** Commercial version is FRN-R Series. See Data Sheet 1020 for more information.</p>	<p><b>Military Standard MIL-F-15160/27</b></p> <p>F27A Series is inactive for new design after December 1990.</p> <p><b>Military Standard MIL-F-15160/28</b></p> <p>F28A Series is inactive for new design after December 1990.</p> <p><b>Military Standard MIL-F-15160/29</b></p> <p>F29A Series is inactive for new design after December 1990.</p> <p><b>Military Standard MIL-F-15160/30</b></p> <p>F30A Series is inactive for new design after December 1990.</p> <p><b>Military Standard MIL-F-15160/36</b></p> <p>F36A and F36B Series are inactive for new design after December 1990.</p> <p><b>Military Standard MIL-F-15160/37</b></p> <p>F37A and F37B Series are inactive for new design after December 1990.</p> <p><b>Military Standard MIL-F-15160/38</b></p> <p>F38A and F38B Series are inactive for new design after December 1990.</p>

Note: When silver-plated fuse caps are required, simply suffix the letter "S" to the Type Designation Number; i.e., "F02A250V<sup>1</sup>/<sub>2</sub>AS."

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# Military Qualified Product Listing

## MIL-F-15160 Fuses - Instruments, Power and Telephone

### Military Standard MIL-F-15160/39

F39A and F39B Series are inactive for new design after December 1990.

### Military Standard MIL-F-15160/40

F40A and F40B Series are inactive for new design after December 1990.

### Military Standard MIL-F-15160/50

F50A Series was cancelled without replacement on June 2000.

### Military Standard MIL-F-15160/52

F52A Series was cancelled without replacement on January 1990.

### Military Standard MIL-F-15160/60 1<sup>3</sup>/<sub>32</sub>" x 1<sup>1</sup>/<sub>2</sub>" Fuses

F60C500V<sup>1</sup>/<sub>8</sub>A  
F60C500V<sup>1</sup>/<sub>4</sub>A  
F60C500V<sup>3</sup>/<sub>8</sub>A  
F60C500V<sup>1</sup>/<sub>2</sub>A  
F60C500V<sup>3</sup>/<sub>4</sub>A  
F60C500V1A  
F60C500V2A  
F60C500V3A  
F60C500V5A  
F60C500V6A  
F60C500V8A  
F60C500V10A  
F60C500V15A  
F60C500V20A  
F60C500V25A  
F60C500V30A

\*\*\* Commercial version is KLM Series. See Data Sheet 2020 for more information.

### Military Standard MIL-F-15160/61 9/<sub>16</sub>" x 2" Fuses

F61C500V1A  
F61C500V2A  
F61C500V3A  
F61C500V5A  
F61C500V6A  
F61C500V8A  
F61C500V10A  
F61C500V15A  
F61C500V20A  
F61C500V25A  
F61C500V30A

\*\*\* Commercial version is KLC Series.

### Military Standard MIL-F-15160/62 13/16" x 3" Fuses

F62C500V35A  
F62C500V40A  
F62C500V45A  
F62C500V50A  
F62C500V60A

\*\*\* Commercial version is KLC Series.

### Military Standard MIL-F-15160/63 1" x 5<sup>7</sup>/<sub>8</sub>" Fuses

F63C500V70A  
F63C500V80A  
F63C500V90A  
F63C500V100A

### Military Standard MIL-F-15160/64 1<sup>1</sup>/<sub>2</sub>" x 7<sup>7</sup>/<sub>8</sub>" Fuses

F64C500V110A  
F64C500V125A  
F64C500V150A  
F64C500V175A  
F64C500V200A

### Military Standard MIL-F-15160/65 2" x 8<sup>5</sup>/<sub>8</sub>" Fuses

F65C500V225A  
F65C500V250A  
F65C500V300A  
F65C500V350A  
F65C500V400A

### Military Standard MIL-F-15160/66 2<sup>1</sup>/<sub>2</sub>" x 11<sup>5</sup>/<sub>8</sub>" Fuses

F66C500V450A  
F66C500V500A  
F66C500V600A

### Military Standard MIL-F-15160/67

F67A Series was cancelled without replacement on October 1986.

### Military Standard MIL-F-15160/70

F70A Series was cancelled without replacement on October 1990.

### Military Standard MIL-F-15160/71

F71A Series was cancelled without replacement on October 1990.

### Military Standard MIL-F-15160/72

F72A Series was cancelled without replacement on January 1990.

### Military Standard MIL-F-15160/73

F73A Series was cancelled without replacement on January 1990.

### Military Standard MIL-F-15160/74

F74A Series was cancelled without replacement on January 1990.

### Military Standard MIL-F-15160/76

F76A Series was cancelled without replacement on January 1990.

### Military Standard MIL-F-15160/77

F77A Series was cancelled without replacement on June 2000.

Note: When silver-plated fuse caps are required, simply suffix the letter "S" to the Type Designation Number; i.e., "F02A250V<sup>1</sup>/<sub>8</sub>AS."

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