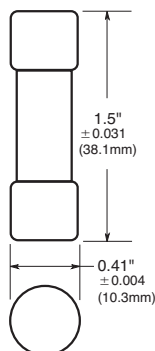


Fast-Acting $1\frac{3}{32}$ " x $1\frac{1}{2}$ " (10x38mm) Midget Fuses, 600Vac/dc, $\frac{1}{10}$ –30A KLM Series



Dimensions - in (mm)

**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:

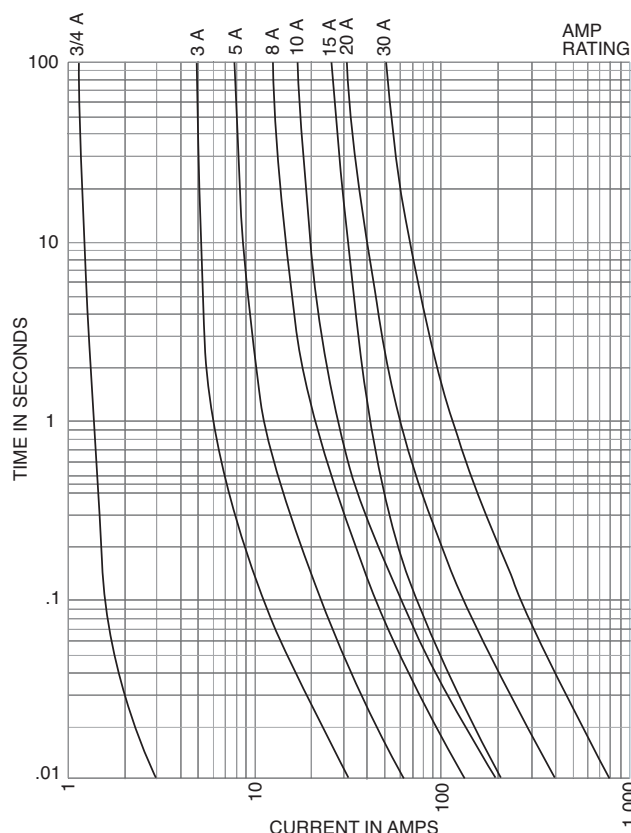
Fuses:	Designed to:
KLM $\frac{1}{10}$ thru 30	Carry 110% of rating for 4 hours AC Opens at 135% of rating within 1 hour AC Maximum Interrupting Rating of 100kA at 600Vac DC Maximum Interrupting Rating of 50kA at 600Vdc DC Minimum Interrupting Rating of 200% rated current at 600Vdc.

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.

Time-Current Characteristic Curves—Total Clearing

**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

The only controlled copy of this Data Sheet is the electronic read-only version located on the Cooper Bussmann Network Drive. All other copies of this document are by definition uncontrolled. This bulletin is intended to clearly present comprehensive product data and provide technical information that will help the end user with design applications. Cooper Bussmann reserves the right, without notice, to change design or construction of any products and to discontinue or limit distribution of any products. Cooper Bussmann also reserves the right to change or update, without notice, any technical information contained in this bulletin. Once a product has been selected, it should be tested by the user in all possible applications.

Military Qualified Product Listing

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

Military Standard MIL-F-15160/01 1/4" x 1" Fuses F01A125V ¹ / ₁₀ A* F01A125V ³ / ₁₆ A F01A125V ¹ / ₈ A F01A125V1A F01A125V1 1/4A F01A125V1 1/2A F01A125V1 3/4A* F01A125V2A F01A125V2 1/2A F01A125V3A F01A125V3 1/10A F01A125V4A F01A125V5A F01A250V ¹ / ₂ A *** Commercial version is AGX Series. See Data Sheet 2041 for more information.	Military Standard MIL-F-15160/02 1/4" x 1 1/4" Fuses F02A32V15A F02A32V20A F02A32V25A F02A32V30A F02B32V8A F02B32V10A F02B32V12A F02B32V15A F02A125V8A F02A125V10A F02A250V ¹ / ₂ A F02A250V ⁹ / ₁₀ AS** F02A250V ³ / ₄ A F02A250V1A F02A250V1 1/4A F02A250V1 1/2A F02A250V1 3/4A F02A250V2A F02A250V2 1/2A F02A250V3A F02A250V4A F02A250V5A F02A250V6A *** Commercial version is AGC Series. See Data Sheet 2001 for more information.	Military Standard MIL-F-15160/02 1/4" x 1 1/4" Fuses F02B125V4A F02B125V5A F02B125V6 1/4A F02B125V7A F02B250V ¹⁵ / ₁₀₀ A F02B250V ³ / ₁₆ A F02B250V ⁷ / ₁₀ A F02B250V ¹ / ₈ A F02B250V ³ / ₁₀ A F02B250V ³ / ₈ A F02B250V ⁴ / ₁₀ A* F02B250V ¹ / ₂ A F02B250V ¹ / ₁₀ A F02B250V ⁷ / ₁₀ A F02B250V ³ / ₄ A F02B250V ⁹ / ₁₀ A F02B250V1A F02B250V1 1/4A F02B250V1 1/2A F02B250V1 3/4A F02B250V2A F02B250V2 1/2A F02B250V2 3/10S** F02B250V3A F02B250V3 1/10A* *** Commercial version is MDL Series. See Data Sheet 2004 for more information.	Military Standard MIL-F-15160/03 1/4" x 1 1/4" Fuses F03A125V20A F03A125V25A F03A125V30A F03A250V1A F03A250V1 1/4A F03A250V1 1/2A F03A250V2A F03A250V3A F03A250V4A F03A250V5A F03A250V6A F03A250V8A F03A250V10A F03A250V12A F03A250V15A *** Commercial version is ABC Series. See Data Sheet 2000 for more information.
Military Standard MIL-F-15160/03 1/4" x 1 1/4" Fuses F03B125V4A F03B125V5A F03B125V6 1/4A F03B125V7A F03B125V8A F03B125V10A F03B125V12A F03B125V15A F03B125V20A F03B125V25A F03B125V30A F03B250V ¹ / ₁₀ A F03B250V ¹ / ₈ A F03B250V ¹⁵ / ₁₀₀ A F03B250V ³ / ₁₆ A F03B250V ¹ / ₈ A F03B250V ³ / ₁₀ A* F03B250V ³ / ₈ A F03B250V ¹ / ₂ A F03B250V ⁹ / ₁₀ A F03B250V ¹ / ₁₀ A F03B250V ³ / ₄ A F03B250V ⁹ / ₁₀ A* F03B250V1A F03B250V1 1/4A F03B250V1 1/2A F03B250V1 3/10A F03B250V2A F03B250V2 1/2A* F03B250V2 3/10A* F03B250V3A F03B250V3 1/10A *** Commercial version is MDA Series. See Data Sheet 2002 for more information.	Military Standard MIL-F-15160/09 1 3/32" x 1 1/2" Fuses F09A250V1A F09A250V2A F09A250V3A F09A250V3 1/2A F09A250V4AS** F09A250V5A F09A250V6A F09A250V6 1/4AS** F09A250V7A F09A250V8A F09A250V10A F09A250V15A F09A250V20A F09A250V25A F09A250V30A *** Commercial version is BAN Series. See Data Sheet 2046 for more information.	Military Standard MIL-F-15160/05 F05A and F05B series cancelled without replacement on January 1976. Military Standard MIL-F-15160/06 F06A and F06B series are inactive for new design after January 1970. Non-military equivalent is ABS Series. Military Standard MIL-F-15160/07 F07A and F07B series are inactive for new design after January 1970. Non-military equivalent is AGU Series.	Military Standard MIL-F-15160/09 1 3/32" x 1 1/2" Fuses F09B32V20A* F09B32V25A F09B32V30A F09B125V15A F09B250V ¹ / ₁₀ A** F09B250V ¹⁵ / ₁₀₀ A F09B250V ⁷ / ₁₀ A F09B250V ³ / ₁₀ A F09B250V ¹ / ₈ A* F09B250V ¹ / ₂ A* F09B250V ⁹ / ₁₀ A F09B250V1A F09B250V1 1/4A F09B250V1 3/10A F09B250V2A F09B250V2 1/2A F09B250V2 3/10S** F09B250V3 1/10A F09B250V3 1/2AS** F09B250V4A F09B250V5A F09B250V5 1/10A F09B250V6 1/4A F09B250V8A F09B250V10A *** Commercial version is FNM Series. See Data Sheet 2028 for more information.

Note: When silver-plated fuse caps are required, simply suffix the letter "S" to the Type Designation Number; i.e., "F02A250V¹/₂AS."

*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

Military Standard MIL-F-15160/10 $\frac{13}{32}$ " x $1\frac{1}{2}$ " Fuses F10A250V1A F10A250V2A F10A250V3A F10A250V4AS** F10A250V5A F10A250V6AS** F10A250V8AS** F10A250V10A F10A250V15A F10A125V20AS** F10A125V30A* *** Commercial version is MIN Series. See Data Sheet 2047 for more information.	Military Standard MIL-F-15160/15 $\frac{9}{16}$ " x 2" Fuses F15A250V1A F15A250V3A F15A250V6A F15A250V10A F15A250V15A F15A250V20A F15A250V25A F15A250V30A	Military Standard MIL-F-15160/15 $\frac{9}{16}$ " x 2" Fuses F15BR250V1A F15BR250V1 $\frac{5}{16}$ A F15BR250V2A F15BR250V2 $\frac{1}{2}$ A F15BR250V3 $\frac{3}{16}$ AS** F15BR250V4AS** F15BR250V5A F15BR250V6 $\frac{1}{4}$ A* F15BR250V8A F15BR250V10A F15BR250V12A F15BR250V20A F15BR250V25A F15BR250V30A F15BR replaced F15B in October 1990. *** Commercial version is FRN-R Series. See Data Sheet 1019 for more information.	Military Standard MIL-F-15160/16 $\frac{13}{16}$ " x 3" Fuses F16A250V35A F16A250V40A F16A250V45A* F16A250V50A F16A250V60A
Military Standard MIL-F-15160/16 $\frac{13}{16}$ " x 3" Fuses F16BR250V35A F16BR250V40A F16BR250V45A F16BR250V50A F16BR250V60A F16BR replaced F16B in October 1990. *** Commercial version is FRN-R Series. See Data Sheet 1019 for more information.	Military Standard MIL-F-15160/19 1" x $5\frac{7}{8}$ " Fuses F19BR250V70A F19BR250V80A F19BR250V90A F19BR250V100A F19BR replaced F19B in October 1990. *** Commercial version is FRN-R Series. See Data Sheet 1020 for more information.	Military Standard MIL-F-15160/20 1 $\frac{1}{2}$ " x $7\frac{1}{8}$ " Fuses F20BR250V110A F20BR250V125A F20BR250V150A F20BR250V175A F20BR250V200A F20BR replaced F20B in October 1990. *** Commercial version is FRN-R Series. See Data Sheet 1020 for more information.	Military Standard MIL-F-15160/27 F27A Series is inactive for new design after December 1990. Military Standard MIL-F-15160/28 F28A Series is inactive for new design after December 1990. Military Standard MIL-F-15160/29 F29A Series is inactive for new design after December 1990. Military Standard MIL-F-15160/30 F30A Series is inactive for new design after December 1990. Military Standard MIL-F-15160/36 F36A and F36B Series are inactive for new design after December 1990. Military Standard MIL-F-15160/37 F37A and F37B Series are inactive for new design after December 1990. Military Standard MIL-F-15160/38 F38A and F38B Series are inactive for new design after December 1990.

Note: When silver-plated fuse caps are required, simply suffix the letter "S" to the Type Designation Number; i.e., "F02A250V $\frac{1}{2}$ 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

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
1³/₃₂" x 1¹/₂" Fuses

F60C500V¹/₈A
F60C500V¹/₄A
F60C500V³/₈A
F60C500V¹/₂A
F60C500V³/₄A
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
9/₁₆" 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 5⁷/₈" Fuses

F63C500V70A
F63C500V80A
F63C500V90A
F63C500V100A

Military Standard MIL-F-15160/64
1¹/₂" x 7¹/₈" Fuses

F64C500V110A
F64C500V125A
F64C500V150A
F64C500V175A
F64C500V200A

Military Standard MIL-F-15160/65
2" x 8⁵/₈" Fuses

F65C500V225A
F65C500V250A
F65C500V300A
F65C500V350A
F65C500V400A

Military Standard MIL-F-15160/66
2¹/₂" x 11⁵/₈" 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., "F02A250V¹/₈AS."

*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.

The only controlled copy of this Data Sheet is the electronic read-only version located on the Cooper Bussmann Network Drive. All other copies of this document are by definition uncontrolled. This bulletin is intended to clearly present comprehensive product data and provide technical information that will help the end user with design applications. Cooper Bussmann reserves the right, without notice, to change design or construction of any products and to discontinue or limit distribution of any products. Cooper Bussmann also reserves the right to change or update, without notice, any technical information contained in this bulletin. Once a product has been selected, it should be tested by the user in all possible applications.