KLM Series

13/32" x 1-1/2" 600Vac/dc Fast-acting supplemental fuses





600Vac/dc 1 to 30A

Description

Fast-acting supplemental fuse.

For superior protection, Bussmann recommends upgrading to Low-Peak Class CC fuses. See data sheet # 1023.

For protecting DC photovoltaic systems, Bussmann recommends using PVM 10x30mm PV fuses. See data sheet # 10121.

Catalog symbol / color code

KLM - Black (600Vac/dc maximum voltage)

Ratings

Fuse	Interrupting Rating at Rated Voltage		Agency Information	
Amp Range	600 Vac	600 Vdc	UL	CSA
1/10 to 30	100kA	50kA	X	Х

Electrical characteristics

% of Amp Rating	Opening Time
110%	4 Hours minimum
135%	AC Opens within 1 hour

Agency information

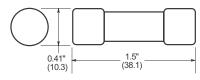
- · CE, RoHS compliant
- UL Listed: Std. 248-14, Guide JDYX, File E19180
- CSA Certified, C22.2 No. 248. 14, Class 1422-01, File 53787

Catalog numbers (amps)

KLM-1/10	KLM-1	KLM-5	KLM-15
KLM-1/8	KLM-1-1/4	KLM-6	KLM-20
KLM-2/10	KLM-1-1/2	KLM-7	KLM-25
KLM-1/4	KLM-2	KLM-8	KLM-30
KLM-3/10	KLM-2-1/2	KLM-9	
KLM-1/2	KLM-3	KLM-10	
KLM-3/4	KLM-4	KLM-12	

Bussmann by FAT.N

Dimensions - in (mm)



Carton quantity

Amps	Qty.
1/10 to 30	10

Features

- · Color coded for 600Vac/dc
- · A full range DC supplemental fuse
- · Melamine tube construction
- · Nickel-plated brass endcaps.

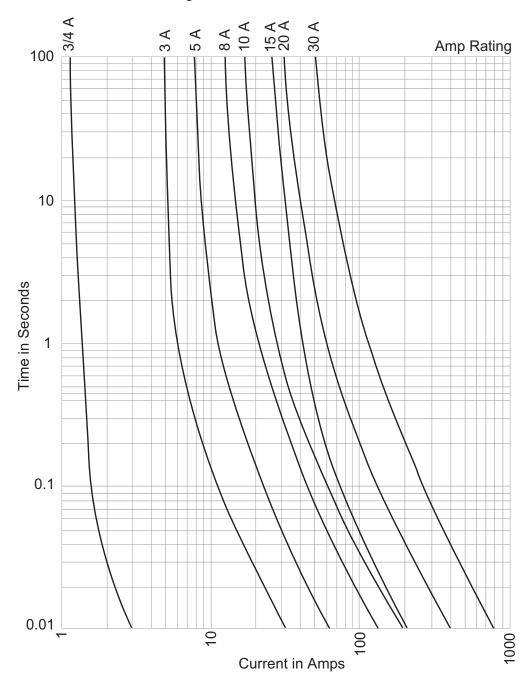
Typical applications

- · DC Control circuits requiring fast-acting fuses
- PV systems up to 600Vdc

Recommended fuse blocks/fuse holders

Series	Description	Data Sheet #
	Blocks	
BMM Series	1-, 2- & 3-Pole modular blocks with optional covers	10235
BM Series	1-, 2- & 3-Pole blocks	1104
DIN	I-Rail Holders / Switches	3
CCP30M	1-, 2- & 3-Pole switch	1157
CHM Series	1-, 2- & 3-Pole	3185
Optima NG	3-Pole protection module	1109
Optima	3-Pole holder	1102
Optima	3-Pole holder + switch	1103
	Panel Mount Holders	_
HPM & HPM-D	1-Pole holder	2112
HPC-D	1-Pole holder	2109
HPS2	2-Pole holder	2140
HPF, HPF-C & HPF-WT	1-Pole holder	2114
HPS	1-Pole holder	2113
HPG & HPD	1-Pole holder	2108
In-line Holders		
HEB	1-Pole holder	2127
HEX	2-Pole holder	2126
	Fuseclips	
1A3400, 5956 & 5960 Series	PCB Fuseclips	2132
Fuse Covers		
SAMI-7	Finger-safe fuse cover	1204

Time-current characteristic curves - total clearing



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Military Qualified Product Listing

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

Military Standard MIL-F-15160/01 1/4" x 1" Fuses
F01A125V ⁶ / ₁₀ A*
F01A125V ³ / ₄ A
F01A125V ⁸ / ₁₀ A
F01A125V1A
F01A125V11/4A
F01A125V11/2A
F01A125V19/10A*
F01A125V2A
F01A125V21/2A
F01A125V3A
F01A125V3 ² / ₁₀ A
F01A125V4A
F01A125V5A
F01A250V¹/₂A
*** Commercial version is AGX

Series. See Data Sheet 2041 for more information.

Military Standard MIL-F-15160/03 1/4"x 11/4" Fuses F03B125V4A F03B125V5A F03B125V6¹/₄A F03B125V7A F03B125V8A F03B125V10A F03B125V12A F03B125V15A F03B125V20A F03B125V25A F03B125V30A F03B250V1/10A F03B250V1/8A F03B250V15/100A

F03B250V³/₁₆A F03B250V1/4A F03B250V3/10A* F03B250V3/8A F03B250V1/2A F03B250V⁶/₁₀A F03B250V3/4A F03B250V8/10A* F03B250V1A F03B250V11/4A F03B250V11/2A F03B250V1%0A F03B250V2A F03B250V21/2A* F03B250V28/10A* F03B250V3A

F03B250V3²/₁₀A

*** Commercial version is MDA Series. See Data Sheet 2002 for more information.

Military Standard MIL-F-15160/02 1/4" x 11/4" Fuses F02A32V15A F02A32V20A F02A32V25A F02A32V30A F02B32V8A F02B32V10A F02B32V12A F02B32V15A F02A125V8A F02A125V10A F02A250V¹/₂A F02A250V⁶/₁₀AS** F02A250V3/4A F02A250V1A F02A250V11/4A F02A250V11/2A F02A250V16/10A F02A250V2A F02A250V2¹/₂A F02A250V3A F02A250V4A F02A250V5A F02A250V6A

Military Standard MIL-F-15160/09
¹³ / ₃₂ " x 1 ¹ / ₂ " Fuses
F09A250V1A
F09A250V2A

*** Commercial version is AGC

Series, See Data Sheet 2001 for

more information.

F09A250V3¹/₂A F09A250V4AS** F09A250V5A F09A250V6A F09A250V61/4AS** F09A250V7A F09A250V8A F09A250V10A F09A250V15A F09A250V20A F09A250V25A F09A250V30A

F09A250V3A

*** Commercial version is BAN Series. See Data Sheet 2046 for more information.

Military Standard MIL-F-15160/02 1/4" x 11/4" Fuses F02B125V4A F02B125V5A

F02B125V6¹/₄A F02B125V7A F02B250V15/100A F02B250V3/16A F02B250V²/₁₀A F02B250V¹/₄A F02B250V3/10A F02B250V3/8A F02B250V4/10A* F02B250V¹/₂A F02B250V6/10A F02B250V7/10A F02B250V³/₄A F02B250V⁸/₁₀A F02B250V1A F02B250V11/4A F02B250V11/2A F02B250V1%0A F02B250V2A F02B250V21/2A F02B250V28/10S** F02B250V3A F02B250V32/10A*

*** Commercial version is MDL Series. See Data Sheet 2004 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-15160/03 1/4" x 11/4" Fuses F03A125V20A

F03A125V25A F03A125V30A F03A250V1A F03A250V11/4A F03A250V11/2A 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-15160/09 13/32" x 11/2" Fuses

F09B32V20A* F09B32V25A F09B32V30A F09B125V15A

F09B250V1/10A* F09B250V15/100A F09B250V²/₁₀A F09B250V3/10A

F09B250V4/10A* F09B250V1/2A* F09B250V8/10A F09B250V1A

F09B250V11/4A F09B250V1%0A F09B250V2A

F09B250V21/2A F09B250V28/10S** F09B250V3²/₁₀A F09B250V31/2AS**

F09B250V4A F09B250V5A F09B250V56/10A F09B250V61/4A F09B250V8A

F09B250V10A

Data Sheet 2089

*** 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., "F02A250V½AS." *Indicates a product not available with silver-plated caps.

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^{**}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



Military Qualified Product Listing

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

Military Standard MIL-F-15160/10 ¹³/₃₂" x 1¹/₂" Fuses

19/s2" x 11/2" Fuses F10A250V1A F10A250V2A F10A250V3A F10A250V5A 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

%6" x 2" Fuses F15A250V1A F15A250V3A F15A250V6A F15A250V10A F15A250V15A F15A250V20A F15A250V25A F15A250V30A

F15BR250V16/10A F15BR250V2A F15BR250V2½A F15BR250V3½/2A F15BR250V4AS** F15BR250V5A F15BR250V6¼A* 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.

MIL-F-15160/15 | Military Standard MIL-F-15160/16

¹³/₁₆" **x 3" Fuses** F16A250V35A F16A250V40A

F16A250V40A F16A250V45A* F16A250V50A F16A250V60A

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.

Military Standard MIL-F-15160/16 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 51/8" 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 11/2" x 71/8" Fuses

F20BR250V110A F20BR250V125A F20BR250V150A F20BR250V175A F20BR250V200A

F20BR replaced F20B in October

*** Commercial version is FRN-R Series. See Data Sheet 1020 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."

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Data Sheet 2089

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^{*}Indicates a product not available with silver-plated caps.

^{**}Indicates a product available only with silver-plated caps.

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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 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 % x 2" Fuses

F61C500V1A F61C500V2A F61C500V3A F61C500V5A F61C500V6A F61C500V10A 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%" 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 85/6" Fuses F65C500V225A F65C500V250A F65C500V300A F65C500V350A F65C500V400A

Data Sheet 2089

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-15160/66 2½" x 115%"Fuses

F66C500V450A F66C500V500A F66C500V600A

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'/ 2 AS."

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