

Supplemental Fuses

FLM Series

250 V ac • 10x38 (Midget) • Time-Delay • 1/10–30 A



Description

The FLM series 250 V fuses are designed to protect control circuit transformers, solenoids, and other circuits with high in-rush currents. They are also excellent for supplemental protection of small motors. The time-delay design can carry an overload several times the normal load for a short period of time without blowing. The FLM fuses are non-indicating and may be used with an indicating fuse block to identify a blown fuse.

Features & Benefits

FEATURES	BENEFITS
10x38 mm size	Common dimensions used in a variety of applications
Time-delay	Allows for temporary current surge for a short period of time without blowing
Paper body	Cost effective materials provide a lower cost alternative for supplemental circuit protection
POWR-GARD® technology	Ensures quality backup overcurrent protection

Applications

- Control circuit transformers
- Solenoids
- Circuits with high in-rush currents
- Small motors

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Specifications

Voltage Rating	Ac: 250 V Dc: 125 V
Interrupting Ratings	Ac: 10,000 A Dc: 10,000 A Self Certified
Ampere Range	$\frac{1}{10}$ –30 A
Applicable Standards	UL 248-14
Environmental	REACH, RoHS
Material	Body: Paper Cap: Nickel plated bronze
Country of Origin	Mexico
Fuse Weight	.010 lbs (4.54g)

Certification & Compliance

UL	UL Listed (File: E10480)
CSA	CSA Certified (File: LR29862)
CE	EU_DOC-FLM_210323
QPL	MIL-F-15160/9
RoHS	RoHS 2 Directive 2011/65/EU; Directive (EU) 2015/863

Accessories

L60030M series fuse block
LEB/LEX series inline fuse holder
LPSM Touch-safe series fuse holder
571/572 series panel mount fuse holder

Ordering Information

AMPERE	CATALOG NUMBER	PRODUCT MARKING	PACK QUANTITY	ORDERING NUMBER	UPC
$\frac{1}{10}$	FLM.100	FLM $\frac{1}{10}$ A	10	OFLM.100T	07945814011
$\frac{1}{100}$	FLM.125	FLM $\frac{1}{100}$ A	10	OFLM.125T	07945814013
$\frac{3}{10}$	FLM.200	FLM $\frac{3}{10}$ A	10	OFLM.200T	07945814018
$\frac{1}{4}$	FLM.250	FLM $\frac{1}{4}$ A	10	OFLM.250T	07945814019
$\frac{3}{10}$	FLM.300	FLM $\frac{3}{10}$ A	10	OFLM.300T	07945800083
$\frac{3}{10}$	FLM.400	FLM $\frac{3}{10}$ A	10	OFLM.400T	07945814023
$\frac{1}{2}$	FLM.500	FLM $\frac{1}{2}$ A	10	OFLM.500T	07945814024
$\frac{3}{10}$	FLM.600	FLM $\frac{3}{10}$ A	10	OFLM.600T	07945800084
$\frac{3}{10}$	FLM.800	FLM $\frac{3}{10}$ A	10	OFLM.800T	07945800085
1	FLM001	FLM 1A	10	OFLM001.T	07945814031
1 $\frac{1}{8}$	FLM1.12	FLM 1- $\frac{1}{8}$ A	10	OFLM1.12T	07945814032
1 $\frac{1}{4}$	FLM1.25	FLM 1- $\frac{1}{4}$ A	10	OFLM1.25T	07945814034
1 $\frac{1}{10}$	FLM01.4	FLM 1- $\frac{1}{10}$ A	10	OFLM01.4T	07945814036
1 $\frac{1}{2}$	FLM01.5	FLM 1- $\frac{1}{2}$ A	10	OFLM01.5T	07945814037

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Ordering Information

AMPERE	CATALOG NUMBER	PRODUCT MARKING	PACK QUANTITY	ORDERING NUMBER	UPC
1 $\frac{5}{10}$	FLM01.6	FLM 1- $\frac{5}{10}$ A	10	OFLM01.6T	07945814038
1 $\frac{5}{10}$	FLM01.8	FLM 1- $\frac{5}{10}$ A	10	OFLM01.8T	07945814040
2	FLM002	FLM 2A	10	OFLM002.T	07945814041
2 $\frac{1}{4}$	FLM2.25	FLM 2- $\frac{1}{4}$ A	10	OFLM2.25T	07945814042
2 $\frac{1}{2}$	FLM02.5	FLM 2- $\frac{1}{2}$ A	10	OFLM02.5T	07945814043
2 $\frac{5}{10}$	FLM02.8	FLM 2- $\frac{5}{10}$ A	10	OFLM02.8T	07945814046
3	FLM003	FLM 3A	10	OFLM003.T	07945814047
3 $\frac{5}{10}$	FLM03.2	FLM 3- $\frac{5}{10}$ A	10	OFLM03.2T	07945814049
3 $\frac{1}{2}$	FLM03.5	FLM 3- $\frac{1}{2}$ A	10	OFLM03.5T	07945814051
4	FLM004	FLM 4A	10	OFLM004.T	07945814053
4 $\frac{1}{2}$	FLM04.5	FLM 4- $\frac{1}{2}$ A	10	OFLM04.5T	07945814054
5	FLM005	FLM 5A	10	OFLM005.T	07945814055
5 $\frac{5}{10}$	FLM05.6	FLM 5- $\frac{5}{10}$ A	10	OFLM05.6T	07945814056
6	FLM006	FLM 6A	10	OFLM006.T	07945814058
6 $\frac{1}{4}$	FLM6.25	FLM 6- $\frac{1}{4}$ A	10	OFLM6.25T	07945814059
7	FLM007	FLM 7A	10	OFLM007.T	07945814061
8	FLM008	FLM 8A	10	OFLM008.T	07945814063
9	FLM009	FLM 9A	10	OFLM009.T	07945814064
10	FLM010	FLM 10A	10	OFLM010.T	07945814065
12	FLM012	FLM 12A	10	OFLM012.T	07945814066
15	FLM015	FLM 15A	10	OFLM015.T	07945814068
20	FLM020	FLM 20A	10	OFLM020.T	07945814071
25	FLM025	FLM 25A	10	OFLM025.T	07945814072
30	FLM030	FLM 30A	10	OFLM030.T	07945814073

Electrical Specification - Agency Requirements

AMPERAGE RATING	OPENING TIME (MINUTES)		
	100 % OF AMP RATING PER UL	135 % OF AMP RATING PER UL	200 % OF AMP RATING PER UL
$\frac{1}{10}$ –3	Temperature Stabilization	60 Minutes Max	5 Seconds Minimum
3 $\frac{5}{10}$ –30	Temperature Stabilization	60 Minutes Max	12 Seconds Minimum

Electrical Specifications

CATALOG NUMBER	VOLTAGE AC (V)	INTERRUPTING RATING (A)	NOMINAL COLD RESISTANCE (OHMS)	AGENCY APPROVALS			
				UL	CSA	QPL	CE
FLM.100	250	10,000	188.0	•	•	•	•
FLM.125	250	10,000	87.00	•	•	•	•
FLM.200	250	10,000	35.10	•	•	•	•
FLM.250	250	10,000	16.82	•	•	•	•
FLM.300	250	10,000	6.739	•	•	•	•
FLM.400	250	10,000	5.413	•	•	•	•

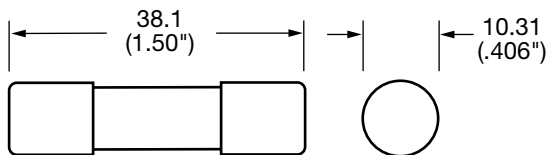
Supplemental Fuses

FLM Series

Electrical Specifications

CATALOG NUMBER	VOLTAGE AC (V)	INTERRUPTING RATING (A)	NOMINAL COLD RESISTANCE (OHMS)	AGENCY APPROVALS			
				UL	CSA	QPL	CE
FLM.500	250	10,000	3.790	•	•	•	•
FLM.600	250	10,000	2.050	•	•	•	•
FLM.800	250	10,000	1.024	•	•	•	•
FLM001	250	10,000	1.024	•	•	•	•
FLM1.12	250	10,000	.6231	•	•	•	•
FLM1.25	250	10,000	.6231	•	•	•	•
FLM01.4	250	10,000	.3950	•	•	•	•
FLM01.5	250	10,000	.3390	•	•	•	•
FLM01.6	250	10,000	.2860	•	•	•	•
FLM01.8	250	10,000	.2530	•	•	•	•
FLM002	250	10,000	.2191	•	•	•	•
FLM2.25	250	10,000	.1840	•	•	•	•
FLM02.5	250	10,000	.1620	•	•	•	•
FLM02.8	250	10,000	.1250	•	•	•	•
FLM003	250	10,000	.1020	•	•	•	•
FLM03.2	250	10,000	.0904	•	•	•	•
FLM03.5	250	10,000	.0735	•	•	•	•
FLM004	250	10,000	.0700	•	•	•	•
FLM04.5	250	10,000	.0561	•	•	•	•
FLM005	250	10,000	.0413	•	•	•	•
FLM05.6	250	10,000	.0326	•	•	•	•
FLM006	250	10,000	.0280	•	•	•	•
FLM6.25	250	10,000	.0277	•	•	•	•
FLM007	250	10,000	.0213	•	•	•	•
FLM008	250	10,000	.0124	•	•	•	•
FLM009	250	10,000	.0106	•	•	•	•
FLM010	250	10,000	.0090	•	•	•	•
FLM012	250	10,000	.0069	•	•	•	•
FLM015	250	10,000	.0053	•	•	•	•
FLM020	250	10,000	.0038	•	•	•	•
FLM025	250	10,000	.0027	•	•	•	•
FLM030	250	10,000	.0022	•	•	•	•

Dimensions Millimeters (inches)

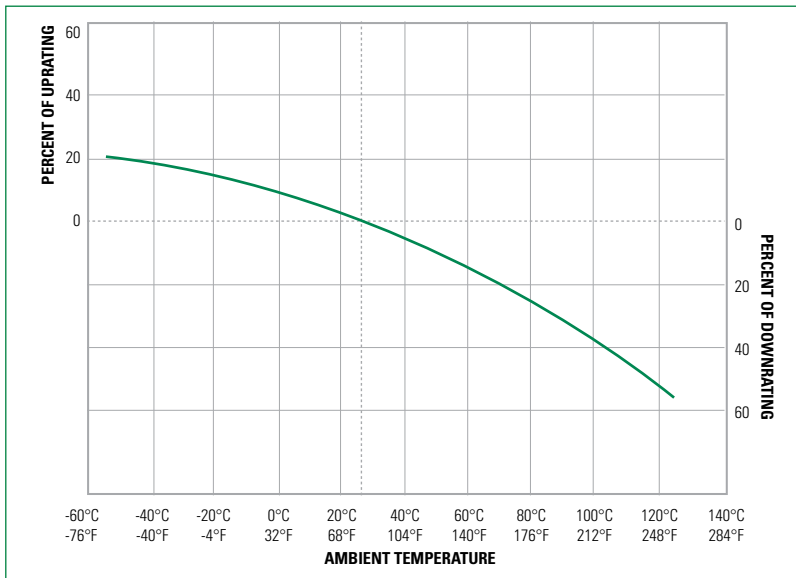


Supplemental Fuses

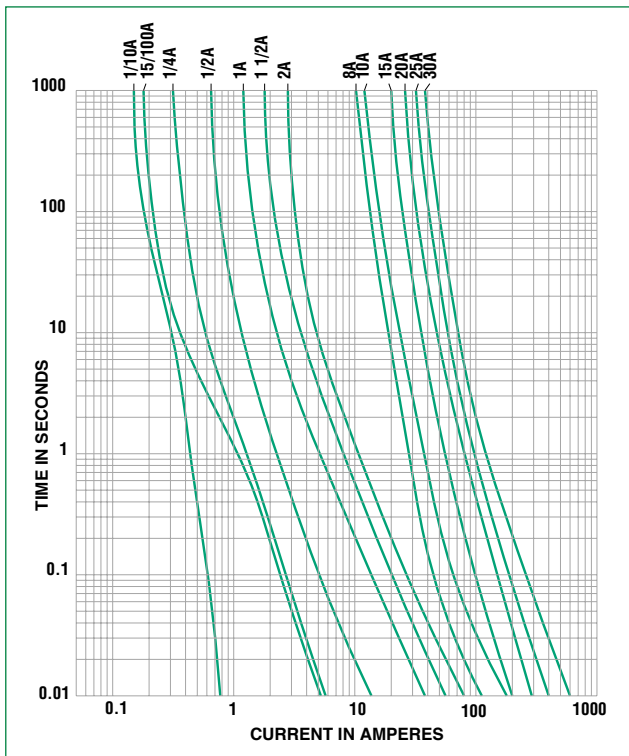
FLM Series

Temperature Derating Curve

Ambient temperature: temperature of air immediately surrounding fuse



Time Current Curves



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Military Fuses and Fuseholders

Fuses

Approved to MIL-PRF-15160

F09A FUSES		MIL-PRF-15160/9 (Commercial Equivalent — BLN Series)	
MIL Type Designation	Nickel-Plated Caps	Silver-Plated Caps	
F09A 250V 1A	594 001	594 001S	
F09A 250V 2A	594 002	594 002S	
F09A 250V 3A	594 003	594 003S	
F09A 250V 4A	594 004	594 004S	
F09A 250V 5A	594 005	594 005S	
F09A 250V 6A	594 006	594 006S	
F09A 250V 7A	594 007	594 007S	
F09A 250V 8A	594 008	594 008S	
F09A 250V 10A	594 010	594 010S	
F09A 250V 12A	594 012	594 012S	
F09A 250V 15A	594 015	594 015S	
F09A 250V 20A	594 020	594 020S	
F09A 250V 25A	594 025	594 025S	
F09A 250V 30A	594 030	594 030S	

F09B FUSES		MIL-PRF-15160/9 (Commercial Equivalent — FLM Series)	
MIL Type Designation	Nickel-Plated Caps	Silver-Plated Caps	
F09B 250V 3/10A	593 .300	593 .300S	
F09B 250V 4/10A	593 .400	593 .400S	
F09B 250V 1/2A	593 .500	593 .500S	
F09B 250V 6/10A	593 .600	593 .600S	
F09B 250V 8/10A	593 .800	593 .800S	
F09B 250V 1A	593 001	593 001S	
F09B 250V 1 ¹ / ₈ A	593 1.12	593 1.12S	
F09B 250V 1 ¹ / ₄ A	593 1.25	593 1.25S	
F09B 250V 1 ¹ / ₁₀ A	593 01.4	593 01.4S	
F09B 250V 1 ¹ / ₂ A	593 01.5	593 01.5S	
F09B 250V 1 ⁶ / ₁₀ A	593 01.6	593 01.6S	
F09B 250V 1 ⁸ / ₁₀ A	593 01.8	593 01.8S	
F09B 250V 2A	593 002	593 002S	
F09B 250V 2 ¹ / ₄ A	593 2.25	593 2.25S	
F09B 250V 2 ¹ / ₂ A	593 02.5	593 02.5S	
F09B 250V 2 ⁸ / ₁₀ A	593 02.8	593 02.8S	
F09B 250V 3A	593 003	593 003S	
F09B 250V 3 ² / ₁₀ A	593 03.2	593 03.2S	
F09B 250V 3 ¹ / ₂ A	593 03.5	593 03.5S	
F09B 250V 4A	593 004	593 004S	
F09B 250V 4 ¹ / ₂ A	593 04.5	593 04.5S	
F09B 250V 5A	593 005	593 005S	
F09B 250V 5 ⁶ / ₁₀ A	593 05.6	593 05.6S	
F09B 250V 6A	593 006	593 006S	
F09B 250V 6 ¹ / ₄ A	593 6.25	593 6.25S	
F09B 250V 7A	593 007	593 007S	
F09B 250V 8A	593 008	593 008S	
F09B 250V 9A	593 009	593 009S	
F09B 250V 10A	593 010	593 010S	
F09B 125V 12A	593 012	593 012S	
F09B 125V 15A	593 015	593 015S	
F09B 32V 20A	593 020	593 020S	
F09B 32V 25A	593 025	593 025S	
F09B 32V 30A	593 030	593 030S	

F60C FUSES		MIL-PRF-15160/60 (Commercial Equivalent — KLK Series)	
MIL Type Designation	Nickel-Plated Caps	Silver-Plated Caps	
F60C 500V 1/8A	592 .125	592 .125S	
F60C 500V 2/10A	592 .200	592 .200S	
F60C 500V 1/4A	592 .250	592 .250S	
F60C 500V 3/10A	592 .300	592 .300S	
F60C 500V 3/8A	592 .375	592 .375S	
F60C 500V 1/2A	592 .500	592 .500S	
F60C 500V 3/4A	592 .750	592 .750S	
F60C 500V 1A	592 001	592 001S	
F60C 500V 1 ¹ / ₂ A	592 01.5	592 01.5S	
F60C 500V 2A	592 002	592 002S	
F60C 500V 3A	592 003	592 003S	
F60C 500V 4A	592 004	592 004S	
F60C 500V 5A	592 005	592 005S	
F60C 500V 6A	592 006	592 006S	
F60C 500V 8A	592 008	592 008S	
F60C 500V 10A	592 010	592 010S	
F60C 500V 15A	592 015	592 015S	
F60C 500V 20A	592 020	592 020S	
F60C 500V 25A	592 025	592 025S	
F60C 500V 30A	592 030	592 030S	

NOTES: 1. The suffix letter "S" added to the type designation indicates that silver-plated fuse caps are required.
For example: F02A 250V 3/4A S.

2. Boldface numbers indicate series; light type numbers indicate amperage value.

Military Fuses and Fuseholders

Fuses

Approved to MIL-PRF-23419

FM02 FUSES MIL-PRF-23419/2 (Commercial Equivalent — 273 Series MICRO™ fuses)

MIL Type Designation	Catalog Number
FM02A 125V 1/500A	274.002
FM02A 125V 1/200A	274.005
FM02A 125V 1/100A	274.010
FM02A 125V 1/64A	274.015
FM02A 125V 1/32A	274.031
FM02A 125V 1/16A	274.062
FM02A 125V 1/10A	274.100
FM02A 125V 1/8A	274.125
FM02A 125V 2/10A	274.200
FM02A 125V 1/4A	274.250
FM02A 125V 3/10A	274.300
FM02A 125V 4/10A	274.400
FM02A 125V 1/2A	274.500
FM02A 125V 6/10A	274.600
FM02A 125V 3/4A	274.750
FM02A 125V 1A	274.001
FM02A 125V 1½A	274.015
FM02A 125V 2A	274.002
FM02A 125V 3A	274.003
FM02A 125V 4A	274.004
FM02A 125V 5A	274.005

FM04 FUSES MIL-PRF-23419/4 (Commercial Equivalent — 275 Series PICO® fuses)

Not recommended for new design — use FM 10

MIL Type Designation	Catalog Number
FM04A 125V 1/16A	277.062
FM04A 125V 1/8A	277.125
FM04A 125V 1/4A	277.250
FM04A 125V 3/8A	277.375
FM04A 125V 1/2A	277.500
FM04A 125V 3/4A	277.750
FM04A 125V 1A	277.001
FM04A 125V 1½A	277.015
FM04A 125V 2A	277.002
FM04A 125V 3A	277.003
FM04A 125V 4A	277.004
FM04A 125V 5A	277.005
FM04A 125V 7A	277.007
FM04A 125V 10A	277.010
FM04A 32V 15A	277.015

FM07 FUSES MIL-PRF-23419/7 (Commercial Equivalent — 262 Series MICRO™ fuses)

MIL Type Designation	Catalog Number
FM07A 125V 1/500A	269.002
FM07A 125V 1/200A	269.005
FM07A 125V 1/100A	269.010
FM07A 125V 1/64A	269.015
FM07A 125V 1/32A	269.031
FM07A 125V 1/20A	269.050
FM07A 125V 1/16A	269.062
FM07A 125V 1/10A	269.100
FM07A 125V 1/8A	269.125
FM07A 125V 2/10A	269.200
FM07A 125V 1/4A	269.250
FM07A 125V 3/10A	269.300
FM07A 125V 4/10A	269.400
FM07A 125V 1/2A	269.500
FM07A 125V 6/10A	269.600
FM07A 125V 7/10A	269.700
FM07A 125V 3/4A	269.750
FM07A 125V 8/10A	269.800
FM07A 125V 1A	269.001
FM07A 125V 1½A	269.015
FM07A 125V 2A	269.002
FM07A 125V 3A	269.003
FM07A 125V 4A	269.004
FM07A 125V 5A	269.005

FM08 FUSES MIL-PRF-23419/8 (Commercial Equivalent — 265 Series PICO® fuses)

MIL Type Designation	Catalog Number
FM08A 125V 1/8A	267.125
FM08A 125V 1/4A	267.250
FM08A 125V 3/8A	267.375
FM08A 125V 1/2A	267.500
FM08A 125V 3/4A	267.750
FM08A 125V 1A	267.001
FM08A 125V 1½A	267.015
FM08A 125V 2A	267.002
FM08A 125V 2½A	267.025
FM08A 125V 3A	267.003
FM08A 125V 4A	267.004
FM08A 125V 5A	267.005
FM08A 125V 7A	267.007
FM08A 125V 10A	267.010
FM08A 32V 15A	267.015

FM10 FUSES MIL-PRF-23419/10 (Commercial Equivalent — 251 Series PICO® fuses)

MIL Type Designation	Catalog Number
FM10A 125V 1/16A	253.062
FM10A 125V 1/8A	253.125
FM10A 125V 1/4A	253.250
FM10A 125V 3/8A	253.375
FM10A 125V 1/2A	253.500
FM10A 125V 3/4A	253.750
FM10A 125V 1A	253.001
FM10A 125V 1½A	253.015
FM10A 125V 2A	253.002
FM10A 125V 3A	253.003
FM10A 125V 4A	253.004
FM10A 125V 5A	253.005
FM10A 125V 7A	253.007
FM10A 125V 10A	253.010
FM10A 32V 15A	253.015

NOTE: Boldface numbers of catalog number indicate series; light type numbers indicate amperage value.

Military Fuses and Fuseholders

Fuses

Approved to DSCC Drawing No. 87108

FUSEHOLDERS

Approved to MIL-PRF-19207

MIL Specification	Type Designation	Catalog Number	Type	Specifications		Commercial Equivalent	
				Electrical Rating	For Fuse Type	Catalog Number	Voltage Range
MIL-PRF19207/11	FHN20G	342 025	Drip-Proof	20A 250V Max	3AG, F02, F03	342 004P	250V Max
MIL-PRF19207/16	FHN26G2	342 024	Drip-Proof	30A 250V Max	3AG, F02, F03	342 012P	250V Max
MIL-PRF19207/16	FHN26W	342 021	Water-Tight	30A 250V Max	3AG, F02, F03	342 006	250V Max
MIL-PRF19207/36	FHN55W	340 267	Water-Tight — RFI	30A 250V Max	3AG, F02, F03	—	250V Max

NOTE: Boldface numbers of catalog number indicate series; light type numbers indicate amperage value.