

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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|------------------|----------------|-------------------------|---------------|-----------------|-------------|
| 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 $\frac{3}{10}$ | FLM03.2 | FLM 3- $\frac{3}{10}$ 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 $\frac{3}{10}$ –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 | • | • | • | • |

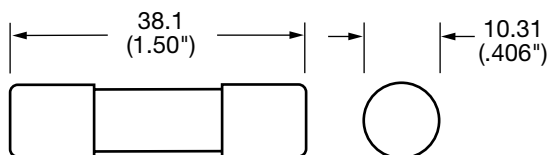
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|----------------|----------------|-------------------------|--------------------------------|------------------|-----|-----|----|
| | | | | UL | CSA | QPL | CE |
| FLM.500 | 250 | 10,000 | 3.790 | • | • | • | • |
| FLM.600 | 250 | 10,000 | 2.050 | • | • | • | • |
| 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)

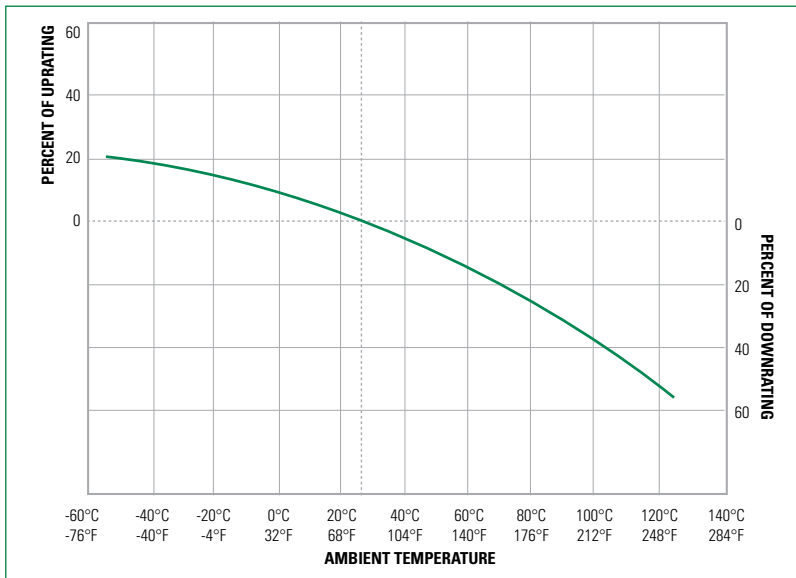


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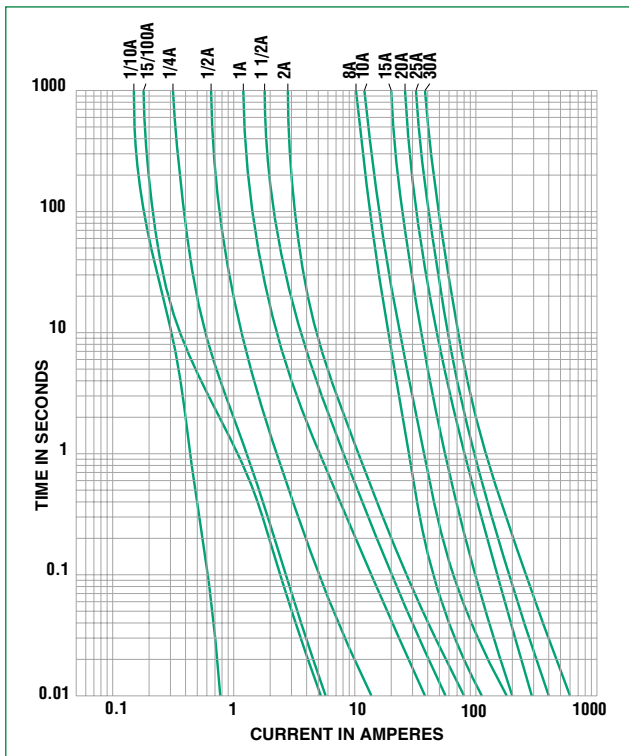
FLM Series

Temperature Derating Curve

Ambient temperature: temperature of air immediately surrounding fuse



Time Current Curves



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