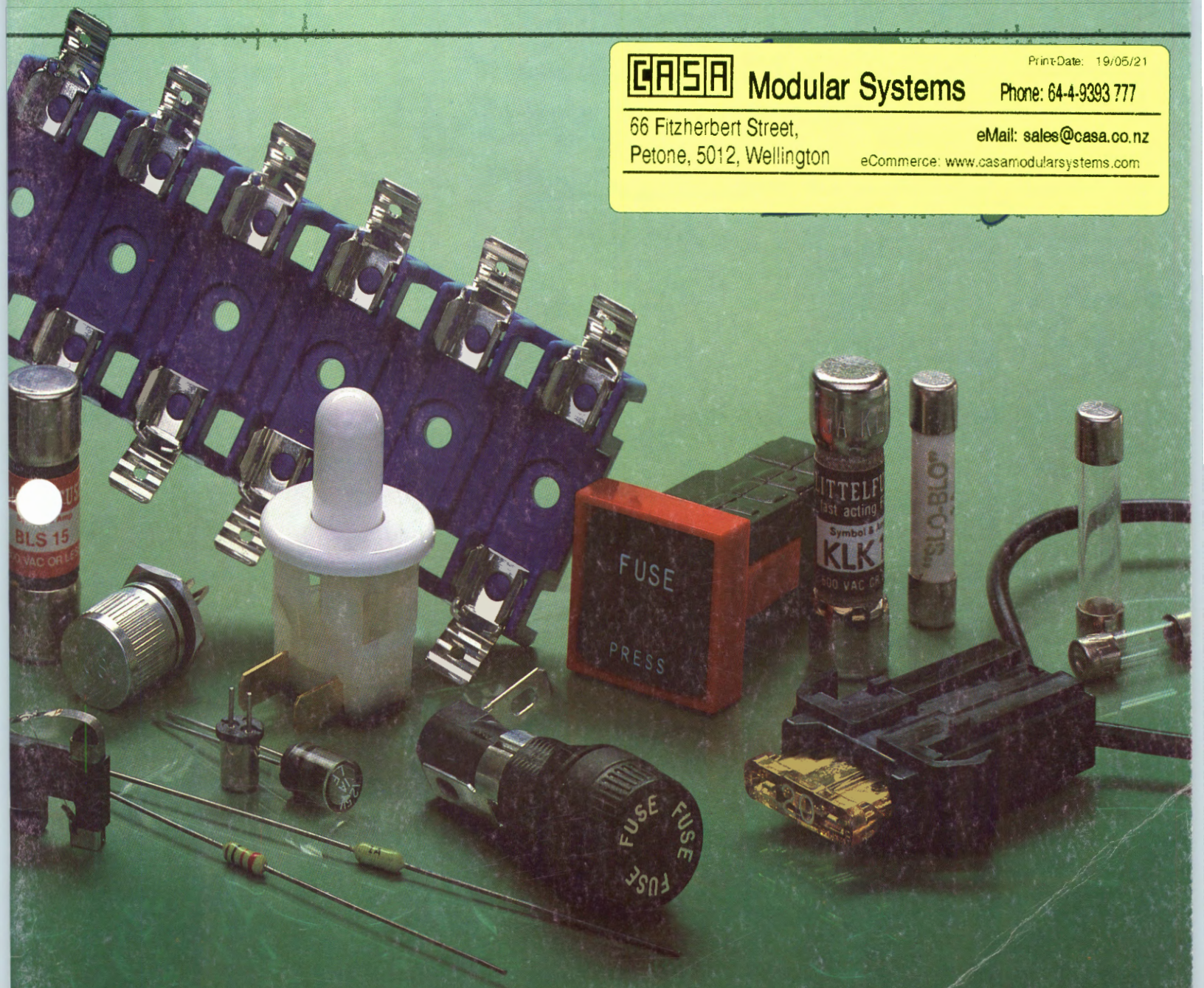
DE VERELL ASSOCIATES
WELLINGTON
REC. 2 1 MAY 1985
ANSD.

CATALOG NO. 20

ELECTROMECHANICAL DEVICES AND

CIRCUIT PROTECTION COMPONENTS

CASA Modular Systems
Print-Date: 19/05/21
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66 Fitzherbert Street,
Petone, 5012, Wellington
eMail: sales@casa.co.nz
eCommerce: www.casamodularsystems.com



LITTELFUSE

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MILITARY SPECIFICATIONS
A complete line of Military fuses and holders are available in accordance with the following specifications:

MIL-F-15160 — Fuses
MIL-F-23419 — Fuses
MIL-F-19207 — Fuseholders

See Table of Contents for Military Section.

DIMENSIONS
The dimensions shown in this catalog are nominal. When dimensional tolerances are required for specification or tooling purposes, please contact factory for latest blueprint.

FUSE CONSTRUCTION
Internal construction may vary depending on ampere rating. Fuse photos in this catalog show typical construction of a particular ampere rating within the fuse series.

UNDERWRITERS LABORATORIES
Reference to "Listed by Underwriters Laboratories" signifies the fuses meet the requirements of Underwriters Laboratories Standard, "Fuses for Supplementary Overcurrent Protection" No. 198G. Some 32 volt fuses in this catalog are listed under UL Standard 275. Reference to "Recognized under the Component Program of Underwriters Laboratories" signifies the item is recognized under the component program of Underwriters Laboratories and application approval is required.

TIME-CURRENT CHARACTERISTIC CURVES
Fuse time-current curves are presented as a design aid but are not generally considered part of the fuse specification. The fuse specification typically will include a life requirement at 100% or 110% rating and maximum opening times at overload points (usually 135% and 200% of rating). Compliance with the specification requires destructive testing, which is done on a statistical basis for each lot manufactured. A time-current curve represents average data for the design; however, there may be some differences in the average values for any one given production lot. Samples should be tested to verify performance once the fuse has been selected.

RESISTANCE OF FUSES
Resistance data on all of our fuses is available on request. Fuses can be supplied to specified controlled resistance tolerances at additional cost.

DISTRIBUTION
All standard Littelfuse fuses, fuseholders, fuse clips, and blocks are available from a nationwide network of electronic distributors. For the name of the closest Littelfuse distributor in your area, contact factory.

SPECIAL COMPONENTS FOR CIRCUIT PROTECTION
For quotations or assistance in designing or selecting special components for your particular application, please contact factory direct.

FUSEOLOGY

The purpose of the Fuseology Section is to promote a better understanding of both fuses and some of the more common application details. The fuses to be considered are current sensitive devices which are designed as the intentional weak link in the electrical circuit. The function is to provide circuit protection by safely melting under current overload conditions. This brief study will cover some important facts about fuses, selection considerations, and fuse Standards.

Fuse Facts

The following fuse parameters or application concepts should be well understood in order to properly select a fuse for a given application.

AMBIENT TEMPERATURE: Refers to the temperature of the air immediately surrounding the fuse and is not to be confused with "room temperature." The fuse ambient temperature is appreciably higher, in many cases, because it is enclosed (as in a panel mount fuseholder) or mounted near other heat producing components such as resistors, transformers, etc.

BREAKING CAPACITY: See Short Circuit Rating.

CURRENT RATING: The nominal amperage value marked on the fuse. It is established by the manufacturer as a value of current which the fuse can be loaded to based on a controlled set of test conditions (See DERATING).

DERATING: For 25°C ambient temperatures, it is recommended that fuses be operated at no more than 75% of the nominal current rating established using the controlled test conditions. These test conditions are part of Underwriters Laboratories Standard 198G "Fuses for Supplementary Overcurrent Protection," whose primary objective is to specify common test standards necessary for the continued control of manufactured items intended for protection against fire, etc. Some common variations of these standards include: using fully enclosed fuseholders, higher contact resistances, air movement, transient spikes and changes in connecting cable size (diameter and length). Fuses are essentially temperature sensitive devices and even small variations from the controlled test conditions can greatly effect the predicted life of a fuse when loaded to its nominal value, usually expressed as 100% of rating.

The circuit design engineer should clearly understand that the purpose of these controlled test conditions is to enable fuse manufacturers to maintain unified performance standards for their products, and he must account for the variable conditions of his application. To compensate for these variables, the circuit design engineer who is designing for trouble free, long life fuse protection in his equipment generally loads his fuse not more than 75% of the nominal rating listed by the manufacturer, keeping in mind that overload and short circuit protection must be adequately provided for.

The fuses under discussion are temperature sensitive devices whose ratings have been established in a 25°C ambient. The fuse temperature generated by the current passing through the fuse increases or decreases with ambient temperature change. The ambient temperature chart in the Fuse Selection section illustrates the effect that ambient temperature has on the nominal current rating of a fuse. Most slo-blo designs use lower melting temperature materials and are, therefore, more sensitive to ambient temperature changes.

DIMENSIONS: The fuses in this catalog range in size from the world's smallest fuse, Pico II™ (.095″ dia. × .280″ body length) up to the 5AG, also commonly known as a "midget" fuse (13/32″ dia. × 1-1/2″ length). As new products were developed throughout the years, fuse sizes evolved to fill the various electrical circuit protection needs. The first fuses were simple, open wire devices, followed in the 1890's by Edison's enclosure of thin wire in a lamp base to make the first plug fuse. By 1904 Underwriters' Laboratories had established size and rating specifications to meet safety standards. The Renewable type fuses and automotive fuses appeared in 1914, and in 1927 Littelfuse started making very low amperage fuses for the budding electronics industry.

The fuse sizes in the chart below began with the early "Automobile Glass" fuses, thus the term "AG". The numbers were applied chronologically as different manufacturers started making a new size: "3AG," for example, was the third size placed on the market. Other non-glass fuse sizes and constructions were determined by functional requirements, but they still retained the length or diameter dimensions of the glass fuses. Their designation was modified to AB in place of AG, indicating that the outer tube was constructed from Bakelite, fibre, ceramic or similar material other than glass. The largest size fuse shown in the chart is the 5AG, or "MIDGET," a name adopted from its use by the electrical industry and the National Electric Code range which normally recognizes fuses of 2″ × 9/16″ as the smallest standard fuse in use.

All fuses, regardless of size and body material, have a specified current rating, voltage rating, and fusing characteristic. The correct selection of fuses for safe, inexpensive and trouble free circuit protection will only come when these three factors are thoroughly understood.

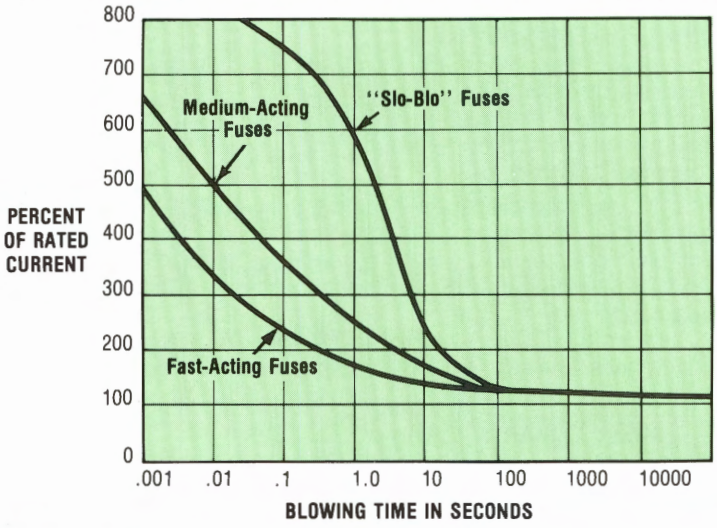
FUSE SIZES

SIZE	DIAMETER (Inches)	LENGTH (Inches)
1AG	1/4	5/8
3AG	1/4	1-1/4
4AG	9/32	1-1/4
5AG	13/32	1-1/2
7AG	1/4	7/8
8AG	1/4	1

Fuse Facts

FUSE CHARACTERISTICS: The characteristic of a fuse design refers to how rapidly the fuse responds to various current overloads. Fuse characteristics can be classified into three general categories: fast acting, medium acting, or slo-blo®. The chart below shows typical time-current curves for the different fusing characteristics. Current rating and characteristic are both needed to define a fuse, since fuses with the same current rating can be represented by considerably different time-current curves. Slo-blo® fuses have additional thermal inertia designed in so that the fuses can tolerate some normal initial or start-up overload pulse.

RELATION OF PERCENT OF RATED CURRENT TO BLOWING TIME



INTERRUPTING CAPACITY: See Short Circuit Rating.

RESISTANCE: The resistance of a fuse is usually an insignificant part of the total circuit resistance. Since the resistance of fractional amperage fuses can be several ohms, this should be considered when using them in low voltage circuits. Actual values can be obtained from the factory. Most fuses are manufactured from materials which have positive temperature coefficients and, therefore, it is common to talk about cold resistance and hot resistance (or voltage drop) with actual operation being somewhere in between. Cold resistance is the resistance obtained using a measuring current of no more than 10% of the fuse's nominal rated current. Hot resistance is the resistance calculated from the stabilized voltage drop across the fuse with current equal to the nominal rated current flowing through it.

SHORT CIRCUIT RATING: Also known as breaking capacity or interrupting capacity, it is the maximum current that the fuse can safely interrupt at rated voltage. Safe operation requires that the fuse remain intact (no explosion) and that it does not emit flame or molten solder which could be a fire hazard.

SOLDER RECOMMENDATIONS: Since most fuse constructions incorporate soldered connections, caution should be used when installing those fuses intended to be soldered in place. The application of excessive heat can reflow the solder within the fuse and change its rating. Fuses are heat sensitive components similar to semi-conductors and the use of heat sinks during soldering is often recommended.

TIME-CURRENT CURVE: The graphical presentation of the fusing characteristic. Time-current curves are generally average curves and are used as a design aid, but are not generally considered part of the fuse specification.

VOLTAGE RATING: The voltage rating, as marked on a fuse, indicates the fuse can be relied upon to safely interrupt its rated short circuit current, in a circuit where the voltage is equal to, or less than its rated voltage. This system of voltage rating is covered by N.E.C. regulations and is a requirement of Underwriters Laboratories as a protection against fire risk. The standard voltage ratings used by fuse manufacturers for most small dimension and midget fuses are 32, 125, 250 and 600.

Short circuit interrupting capacities may vary with fuse design and range from 35 amperes AC for some 250V metric size (5 × 20mm) fuses up to 200,000 amperes AC for the 600V KLK-R series. Information on other fuse series can be obtained from the factory.

In electronic equipment with relatively low output power supplies and circuit impedance limiting short circuit currents to values of less than ten times the current rating of the fuse, it is common practice to specify fuses with 125 or 250 volt ratings for secondary circuit protection of 500 volts or higher.

As mentioned previously (See DERATING), fuses are sensitive to changes in current, not voltage, maintaining their "status quo" at any voltage from zero to maximum rating. It is not until the fuse wire reaches melting temperature and arcing occurs that the circuit voltage and available power influence the fuse performance and determine the safe interruption of the circuit. To summarize, a fuse may be used at any voltage less than its voltage rating without detriment to its fusing characteristics, but may also be used at voltages higher than its certified voltage rating if the maximum power level available at the fuse under a "dead short" condition can only produce a low energy level non-destructive arc.

Fuses listed in accordance with UL Standard 198G are required to have an interrupting rating of 10,000 amperes with some exceptions (See STANDARDS SECTION) which in many applications provides a safety factor far in excess of the short circuit currents available.

Although fuse selection can involve many factors, the following are the more common ones encountered in nearly all fuse applications.

VOLTAGE: The voltage rating of the fuse must be equal to or greater than the available circuit voltage. In addition, the interrupting capacity must be at least equal to the maximum available short circuit current.

CURRENT, NORMAL OPERATING: The current rating of a fuse is typically derated 25% for operation at 25°C to avoid nuisance blowing. For example: a fuse with a current rating of 10A is not usually recommended for operation at more than 7.5A in a 25°C ambient. For additional details, see DERATING in the previous section and AMBIENT TEMPERATURE below.

Initial or start-up pulses are normal for some applications and require the characteristic of a slo-blo® fuse. Slo-blo® fuses have a thermal delay designed in to enable them to survive normal start-up pulses and still provide protection against prolonged overloads. The start-up pulse should be defined and then compared to the time-current curve for the fuse.

CURRENT, FAULT CONDITION: The fault current is that current level for which protection is required. Fault conditions may be specified in terms of current or both current and maximum time the fault can be tolerated before damage occurs. Time-current curves should be consulted to try to match the fuse characteristic to the circuit needs, while keeping in mind that the curves are based on average data.

AMBIENT TEMPERATURE: The current carrying capacity tests of fuses are performed at 25°C and will be affected by changes in ambient temperature. The higher the ambient temperature, the hotter the fuse will operate, and the shorter its life will be. Conversely, operating at a lower temperature will prolong fuse life. This change or amount of derating is in addition to the normal 25% derating for a fuse (See DERATING SECTION OF FUSEOLOGY.).

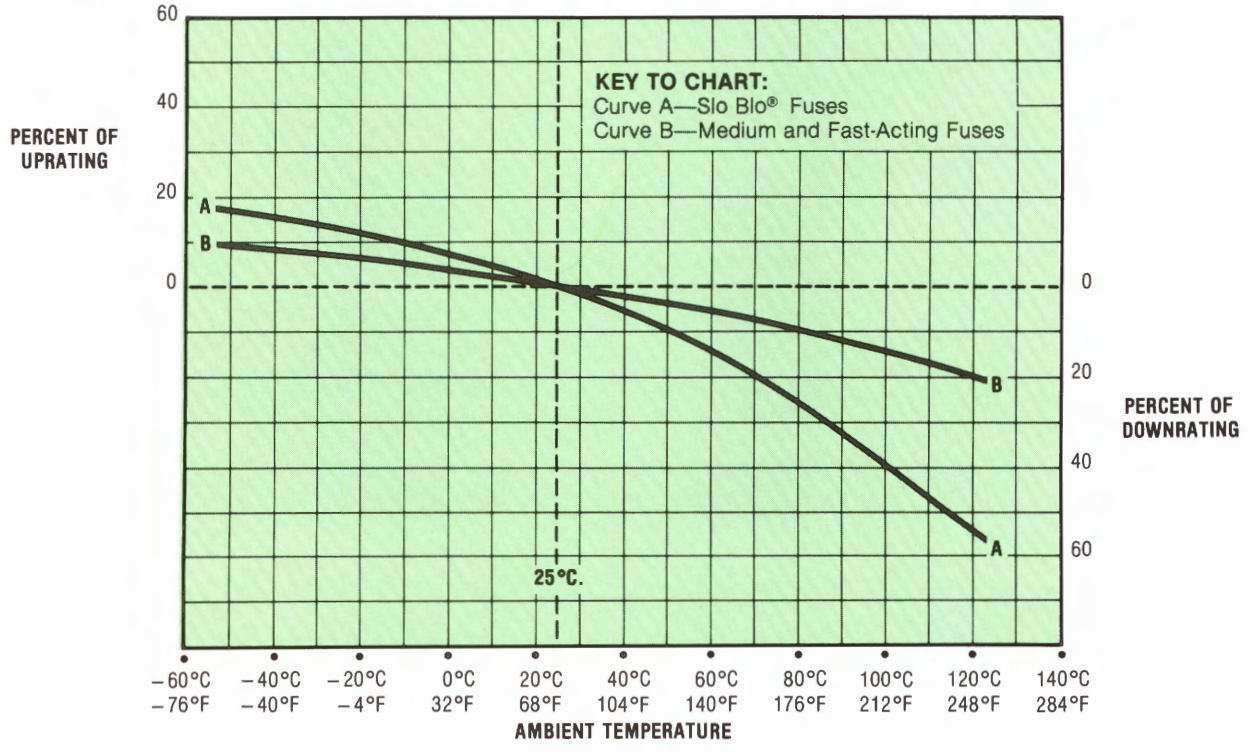
The amount of change is illustrated in the following chart.

The chart shows general curves for Fast-acting, Medium-acting and Slo-Blo® fuses. Some newer Slo-Blo® designs are not as greatly affected by ambient temperatures.

PULSES: Electrical pulse conditions can vary considerably from one application to another. Different fuse constructions may not all react the same to a given pulse condition. Electrical pulses produce thermal cycling and possible mechanical fatigue that could affect the life of the fuse. Application testing is recommended to establish the ability of the fuse design to withstand the pulse conditions.

TESTING: The above factors should be considered in selecting a fuse for a given application. The next step is to verify the selection by requesting samples for testing in the actual circuit. Before evaluating the samples, make sure the fuse is properly mounted with good electrical connections using adequately sized wires. The testing should include life tests under normal conditions and overload tests under fault conditions to insure the fuse will operate properly in the circuit.

CHART SHOWING EFFECT OF AMBIENT TEMPERATURE ON CURRENT-CARRYING CAPACITY



Littelfuse is at your service to help solve your electrical protection problems. When contacting Littelfuse sales engineers, please have available all the requirements of your applications. Requests for quotes or assistance in designing or selecting special types of circuit protection components for your particular applications are also welcome.

FOR TECHNICAL INFORMATION PLEASE CALL (312) 824-1188

Fuse Standards

Fuse ratings and other performance criteria are evaluated under laboratory conditions as defined in one or more of the various fuse Standards. It is important to understand these Standards so that the fuse can be properly applied to circuit protection applications.

UL 198G FUSES FOR SUPPLEMENTARY OVERCURRENT PROTECTION (125-600 Volts)

UL Listed

A UL Listed fuse meets all the requirements of the Standard. Following are some of the requirements of UL 198G.

UL ampere rating tests are conducted at 110%, 135%, and 200% of rated current. The fuse must carry 110% of its ampere rating until the fuse temperature stabilizes and the temperature rise cannot exceed 70°C.

The fuse must open at 135% of rated current within one hour and open at 200% of rated current within 2 minutes.

The short circuit rating of a UL Listed fuse is 10,000 amperes AC minimum at rated voltage. Fuses rated at 250 volts may be listed as interrupting 10,000 amperes at 125 volts and short circuit currents at 250 volts as shown below.

AMPERE RATING OF FUSE	SHORT CIRCUIT CURRENT IN AMPERES
0 to 1	35
1.1 to 3.5	100
3.6 to 10	200
10.1 to 15	950
15.1 to 30	1500

Recognized Under the Component Program of Underwriters Laboratories

The Recognized Program of UL is different from UL Listing. UL will test a fuse to a specification requested by the manufacturer. The test points can be different from the UL Listed requirements if the fuse has been designed for a specific application. Application approval is required by UL for fuses Recognized under the Component Program.

UL 275 AUTOMOTIVE GLASS TUBE FUSES (32 Volts)

UL Listed

UL ampere ratings tests are conducted at 110%, 135%, and 200%. No short circuit tests are required.

CSA STANDARD C22.2 NO. 59 FUSES (125, 250, 600 Volts)

CSA Certification

CSA Certification in Canada is similar to UL Listing approval in the United States.

The CSA ampere ratings tests and short circuit requirement are similar to UL198G. CSA has a different temperature rise requirement; therefore, certain ratings will not meet the requirements of both standards.

CSA does not have a program that would be equivalent to the Recognized Component Program of Underwriters Laboratories.

INTERNATIONAL ELECTROTECHNICAL COMMISSION (IEC)

Publication 127 Sheet I, II, III (250 Volts)

The IEC organization is different from UL and CSA, since IEC only writes specifications and does not give approval. UL and CSA write the specifications, are responsible for testing, and give approvals.

Approvals for IEC specifications are given by such organizations as SEMKO (Swedish Institute of Testing and Approvals of Electrical Equipment) and BEAB (British Electrotechnical Approvals Board).

Sheet I—Type F Quick Acting High Breaking Capacity

Sheet II—Type F Quick Acting Low Breaking Capacity

Sheet III—Type T Time Lag Low Breaking Capacity

IEC Publication 127 defines two breaking capacity requirements (Short circuit rating). High breaking capacity fuses must pass a 1500 amperes AC test at rated voltage. Low breaking capacity fuses must pass a test of 35 amperes or ten times rated current, whichever is greater.

The letters 'F' and 'T' represent the time-current characteristic of the Type F and Type T fuses. One of these letters will be marked on the end cap of the fuse. If a fuse has SEMKO approval, the SEMKO mark Ⓢ will also appear on the fuse cap. BEAB approvals do not require the fuse to be marked with their approval symbol.

IEC 127 VS. UL 198G FUSE OPENING TIMES

PERCENT OF RATING	UL STD 198G	IEC TYPE F Sheet I	IEC TYPE F Sheet II	IEC TYPE T Sheet III
110%	4 Hours* Minimum	—	—	—
135%	60 Minutes Maximum	—	—	—
150%	—	60 Minutes Minimum	60 Minutes Minimum	60 Minutes Minimum
200%	2 Minutes Maximum	—	—	—
210%	—	30 Minutes Maximum	30 Minutes Maximum	2 Minutes Maximum

*UL requirement is temperature stability, passing 4 hour minimum life test is considered compliance by Industry.

IEC also has requirements at 275%, 400% and 1000%, however the chart is used to show that fuses with the same ampere rating made to different specifications are not interchangeable. According to the IEC 127 Standard, a one ampere rated fuse can be operated at one ampere. A one ampere rated fuse made to UL Standard 198G should not be operated at more than .75 ampere (25% derated—See DERATING SECTION OF FUSEOLOGY).

MILITARY STANDARD

Mil-F-15160 and Mil-F-23419

These specifications govern the construction and performance of fuses suitable for military applications.

Fuses approved to these specifications are on the Qualified Products List (QPL) of the Military.

Military type designation is included in the fuse end cap marking. Type designation includes the letter S to indicate silver plated end caps.

Write to the following agencies for additional information on fuse standards, approvals, or copies of the specifications.

Underwriters Laboratories Inc. (UL)
333 Pfingsten Road
Northbrook, IL 60062

Att: Publications Stock

Canadian Standards Association (CSA)
178 Rexdale Boulevard
Rexdale, Ontario, Canada M9W 1R3

Att: Standard Sales

International Electrotechnical Commission (IEC)
3, Rue de Varembe
1211 Geneva 20
Switzerland

Att: Sales Department

Naval Publications and Military Standards Form Center
5801 Tabor Avenue
Philadelphia, PA 19120

Att: Commanding Officer

FUSES
SUBMINIATURE

PICO II® Fast-Acting Type

ELECTRICAL CHARACTERISTICS:

RATING	AMPERAGE	BLOW TIME
100%	1/16—15	4 hours, minimum
200%	1/16—10	5 seconds, maximum
200%	12—15	10 seconds, maximum

APPROVALS: Recognized under the Components Program of Underwriters Laboratories through 10 amperes.

PATENTS: U.S. Patent #4,385,281.

COLOR CODING: PICO II® Fuses are color-coded per IEC (International Electrotechnical Commission) Standards Publication 127. The first three bands indicate current rating in milliamperes. The fourth and wider band designates the time-current characteristics of the fuse (red is fast-acting). Fuses are also available without color coding. The Littelfuse manufacturing symbol and ampere rating are marked on the fuse body.

FUSES TO MIL SPEC: See Military Section.

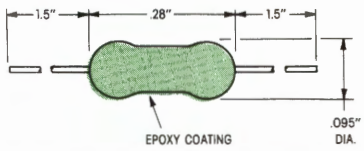
255 000 Series — Axial Leads



256 000 Series — Radial Leads

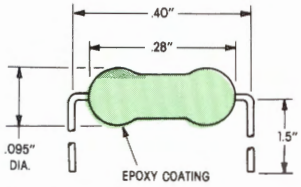


251 000 Series
(Non color-coded)



NOTE: Leads are solder-coated copper, .025" diameter for 1/16 — 10A, .032" diameter for 12 — 15A.

252 000 Series
(Non color-coded)



NOTE: LF and amperage rating marked on all picofuse series.

NOTE: To order non color-coded picofuses, use **251 Series** (for Axial leads) or **252 Series** (for Radial leads) in part number table below.



PART NUMBER							
AXIAL LEADS	RADIAL LEADS	AMPERE RATING	FIRST SIGNIF-ICANT FIGURE	SECOND SIGNIF-ICANT FIGURE	MULTI-PLIER	TIME-CURRENT CHARACTER-ISTIC (Wide Band)	VOLTAGE RATING
255.062	**256**.062	1/16	Blue	Red	Black	Red	125
255.125	**256**.125	1/8	Brown	Red	Brown	Red	125
255.250	**256**.250	1/4	Red	Green	Brown	Red	125
255.375	**256**.375	3/8	Orange	Violet	Brown	Red	125
255.500	**256**.500	1/2	Green	Black	Brown	Red	125
255.750	**256**.750	3/4	Violet	Green	Brown	Red	125
255 001	**256** 001	1	Brown	Black	Red	Red	125
255 01.5	**256** 01.5	1-1/2	Brown	Green	Red	Red	125
255 002	**256** 002	2	Red	Black	Red	Red	125
255 02.5	**256** 02.5	2-1/2	Red	Green	Red	Red	125
255 003	**256** 003	3	Orange	Black	Red	Red	125
255 03.5	**256** 03.5	3-1/2	Orange	Green	Red	Red	125
255 004	**256** 004	4	Yellow	Black	Red	Red	125
255 005	**256** 005	5	Green	Black	Red	Red	125
255 007	**256** 007	7	Violet	Black	Red	Red	125
255 010	**256** 010	10	Brown	Black	Orange	Red	125
255 012	**256** 012	12	Brown	Red	Orange	Red	32
255 015	**256** 015	15	Brown	Green	Orange	Red	32

OPTIONS: PICO II® Fuses are available on tape for use with automatic insertion equipment . . . Contact factory.



Microfuse Fast-Acting Type

METAL CAP
272 000 Series — Plug-in



278 000 Series — Pigtail



TRANSPARENT CAP
273 000 Series — Plug-in



279 000 Series — Pigtail



ELECTRICAL CHARACTERISTICS:

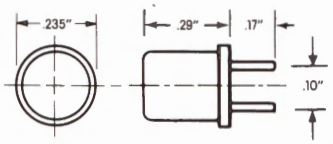
RATING	BLOW TIME
100%	4 hours, minimum
200%	5 seconds, maximum

APPROVALS: Recognized under the Components Program of Underwriters Laboratories.

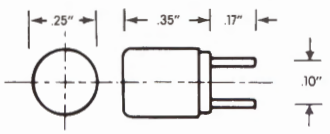
PATENTS: U.S. Patent #3,110,787.

MICROFUSES TO MIL SPEC: See Military Section.

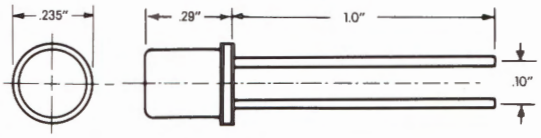
272 000 Series



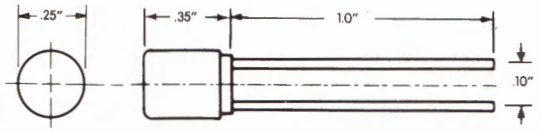
273 000 Series



278 000 Series



279 000 Series



NOTE: Amperage and voltage rating stamped on cap. Leads are solder-coated copper; .025" diameter. Operating temperature for **273 Series** and **279 Series** is limited to 85°C.

PLUG-IN		PIGTAIL			
CATALOG NUMBER	CATALOG NUMBER	CATALOG NUMBER	CATALOG NUMBER	AMPERE RATING	VOLTAGE RATING
272.002	**273**.002	**278**.002	**279**.002	1/500	125
272.005	**273**.005	**278**.005	**279**.005	1/200	125
272.010	**273**.010	**278**.010	**279**.010	1/100	125
272.015	**273**.015	**278**.015	**279**.015	1/64	125
272.031	**273**.031	**278**.031	**279**.031	1/32	125
272.050	**273**.050	**278**.050	**279**.050	1/20	125
272.062	**273**.062	**278**.062	**279**.062	1/16	125
272.100	**273**.100	**278**.100	**279**.100	1/10	125
272.125	**273**.125	**278**.125	**279**.125	1/8	125
272.200	**273**.200	**278**.200	**279**.200	2/10	125
272.250	**273**.250	**278**.250	**279**.250	1/4	125
272.300	**273**.300	**278**.300	**279**.300	3/10	125
272.400	**273**.400	**278**.400	**279**.400	4/10	125
272.500	**273**.500	**278**.500	**279**.500	1/2	125
272.600	**273**.600	**278**.600	**279**.600	6/10	125
272.700	**273**.700	**278**.700	**279**.700	7/10	125
272.750	**273**.750	**278**.750	**279**.750	3/4	125
272.800	**273**.800	**278**.800	**279**.800	8/10	125
272 001	**273** 001	**278** 001	**279** 001	1	125
272 01.5	**273** 01.5	**278** 01.5	**279** 01.5	1-1/2	125
272 002	**273** 002	**278** 002	**279** 002	2	125
272 003	**273** 003	**278** 003	**279** 003	3	125
272 004	**273** 004	**278** 004	**279** 004	4	125
272 005	**273** 005	**278** 005	**279** 005	5	125

FUSES
HIGH-RELIABILITY SUBMINIATURE

Picofuse Fast-Acting Type

ELECTRICAL CHARACTERISTICS:

RATING	AMPERAGE	BLOW TIME
100%	1/16—15	4 hours, minimum
200%	1/16—10	5 seconds, maximum
200%	15	10 seconds, maximum

APPROVALS: Recognized under the Components Program of Underwriters Laboratories through 10 amperes.

FUSES TO MIL SPEC: 265 Series (except 1/16 Amp rating) is available in Military QPL Type (FMO8A), conforming to Mil-F-23419/8. To order, change **265** to **267**.

OPTIONS: Special screening tests, burn-in, etc. can be supplied on special order to meet specific requirements. For information on higher current ratings, contact factory.

CATALOG NUMBER	CATALOG NUMBER	AMPERE RATING	VOLTAGE RATING
265.062	**266**.062	1/16	125
265.125	**266**.125	1/8	125
265.250	**266**.250	1/4	125
265.375	**266**.375	3/8	125
265.500	**266**.500	1/2	125
265.750	**266**.750	3/4	125
265 001	**266** 001	1	125
265 01.5	**266** 01.5	1-1/2	125
265 002	**266** 002	2	125
265 02.5	**266** 02.5	2-1/2	125
265 003	**266** 003	3	125
265 004	**266** 004	4	125
265 005	**266** 005	5	125
265 007	**266** 007	7	125
265 010	**266** 010	10	125
265 015	**266** 015	15	32

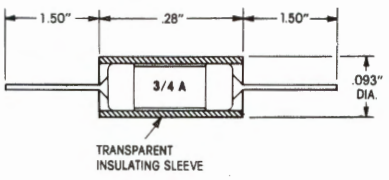
265 000 **Series — Axial Leads**
267 000 **Series — Axial Leads**



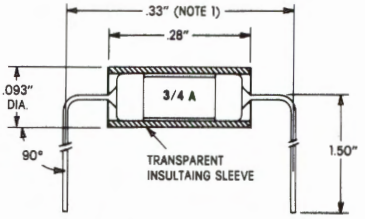
266 000 **Series — Radial Leads**



265 000 **Series**



266 000 **Series**



NOTE 1: .36" for 15 amp rating.

MATERIAL, ELECTRICAL AND ENVIRONMENTAL SPECIFICATIONS (265, 266, 267 Series)

LEADS	1/16 to 10 amperes = .025" dia.; 15 amperes = .032" dia.; gold-plated copper per Mil-G-45204, Type II
WEIGHT	.32 Grams
INTERRUPTING CAPACITY	300 amperes at rated voltage DC
SHOCK	Mil-STD-202, Method 213, Test Condition I, 100 G's peak for 6 milliseconds
VIBRATION	Mil-STD-202, Method 201, 10-55 Hz Mil-STD-202, Method 204, Test Condition C, 55-2000 Hz (10 G's peak)
MOISTURE RESISTANCE	Mil-STD-202, Method 106
SEAL TEST	Mil-STD-202, Method 112, Test Condition A
SALT SPRAY	Mil-STD-202, Method 101, Test Condition B
THERMAL SHOCK	Mil-STD-202, Method 107, Test Condition B (−65°C to 125°C)
INSULATION RESISTANCE (after blow)	Mil-STD-202, Method 302, Test Condition A (1/2 Megohm Minimum)
OPERATING TEMPERATURE RANGE	−55° to 125°C
CURRENT CARRYING CAPACITY	−55° is 110% of Rating; 25° is 100% of Rating; and 125° is 80% of Rating
LEAD PULL TEST	Mil-STD-202, Method 211, Test Condition A (will withstand a five pound axial pull test)
AQL (ELECTRICAL CHARACTERISTICS)	Certified to 1% AQL
SAMPLING	Per Mil-STD-105, inspection level II
TRACEABILITY AND IDENTIFICATION RECORDS	Controlled by lot number and retained on file for a minimum of three years. Copies of Lot Certification test data available when requested with order.

NOTE: The specifications for High-Reliability Picofuses, which are shown in screened area, are the same as for High-Reliability Microfuses shown on following page.

FUSES
HIGH-RELIABILITY SUBMINIATURE

Microfuse Fast-Acting Type

262 000 **Series — Plug-in**
269 000 **Series — Plug-in**



268 000 **Series — Pigtail**



ELECTRICAL CHARACTERISTICS:

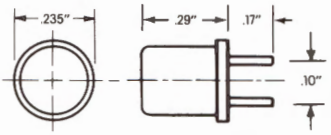
RATING	BLOW TIME
100%	4 hours, minimum
200%	5 seconds, maximum

APPROVALS: Recognized under the Components Program of Underwriters Laboratories.

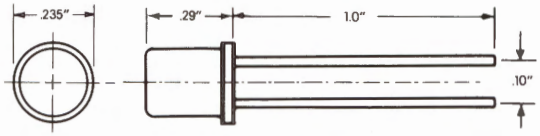
FUSES TO MIL SPEC: 262 Series is available in Military QPL Type (FMO7A), conforming to Mil-F-23419/7. To order, change **262** to **269**.

OPTIONS: Special screening tests, burn-in, etc. can be supplied on special order to meet specific requirements.

262 000 **Series**



268 000 **Series**



CATALOG NUMBER	CATALOG NUMBER	AMPERE RATING	VOLTAGE RATING
262.002	**268**.002	1/500	125
262.005	**268**.005	1/200	125
262.010	**268**.010	1/100	125
262.015	**268**.015	1/64	125
262.031	**268**.031	1/32	125
262.050	**268**.050	1/20	125
262.062	**268**.062	1/16	125
262.100	**268**.100	1/10	125
262.125	**268**.125	1/8	125
262.200	**268**.200	2/10	125
262.250	**268**.250	1/4	125
262.300	**268**.300	3/10	125
262.400	**268**.400	4/10	125
262.500	**268**.500	1/2	125
262.600	**268**.600	6/10	125
262.700	**268**.700	7/10	125
262.750	**268**.750	3/4	125
262.800	**268**.800	8/10	125
262 001	**268** 001	1	125
262 01.5	**268** 01.5	1-1/2	125
262 002	**268** 002	2	125
262 003	**268** 003	3	125
262 004	**268** 004	4	125
262 005	**268** 005	5	125

PATENTS: U.S. Patent #3,110,787.

MATERIAL, ELECTRICAL AND ENVIRONMENTAL SPECIFICATIONS (262, 268, 269 Series)

LEADS	.025″ dia., gold plated copper per Mil-G-45204, Type II. Fuse Cap is also gold-plated.
WEIGHT	262 and 269 Series .36 grams, 268 Series .48 grams
INTERRUPTING CAPACITY	10,000 amperes at 125 volts DC
SHOCK	1/500 ampere :Mil-STD-202 Method 213, Test Condition A, 50 G's peak for 11 milliseconds. 1/200 thru 5 amperes: Mil-STD-202, Method 213, Test Condition I, 100 G's peak for 6 milliseconds.
VIBRATION	Mil-STD-202, Method 201, 10-55 Hz Mil-STD-202, Method 204, Test Condition C, 55-2000 Hz (10 G's peak).
MOISTURE RESISTANCE	Mil-STD-202, Method 106
SEAL TEST	Mil-STD-202, Method 112, Test Condition A
SALT SPRAY	Mil-STD-202, Method 101, Test Condition B
THERMAL SHOCK	Mil-STD-202, Method 107, Test Condition B (−65°C to 125°C)
INSULATION RESISTANCE (after blow)	Mil-STD-202, Method 302, Test Condition A (1/2 Megohm Minimum)
OPERATING TEMPERATURE RANGE	−55° to 125°C
CURRENT CARRYING CAPACITY	−55° is 110% of Rating; 25° is 100% of Rating; and 125° is 80% of Rating
LEAD PULL TEST	Mil-STD-202, Method 211, Test Condition A (will withstand a five pound axial pull test)
AQL (ELECTRICAL CHARACTERISTICS)	Certified to 1% AQL
SAMPLING	Per Mil-STD-105, inspection level II
TRACEABILITY AND IDENTIFICATION RECORDS	Controlled by lot number and retained on file for a minimum of three years. Copies of Lot Certification test data available when requested with order.

NOTE: The specifications for High-Reliability Microfuses, which are shown in screened area, are the same as for High-Reliability Picofuses shown on preceding page.

FUSES
METRIC (5 x 20mm)

Fast-Acting High-Interrupting Capacity Type

ELECTRICAL CHARACTERISTICS:

	RATING AND BLOW TIME				
AMPERAGE	**150%**	**210%**	**275%**	**400%**	**1000%**
.050—3.15	60 minutes minimum	30 minutes maximum	0.01—2 seconds	0.003—0.3 seconds	0.02 seconds maximum
4—10	60 minutes minimum	30 minutes maximum	0.01—3 seconds	0.003—0.3 seconds	0.02 seconds maximum

216 000 **Series/Type F**



APPROVALS: SEMKO approved through 6.3 amperes.

INTERRUPTING CAPACITY: 1500 Amperes.

DESIGN STANDARDS:

I.E.C.	Publication 127, Sheet I
C.E.E.	Publication 4, Sheet I
DIN	41660
BS	4265 Sheet I
SEMKO	24 Normblad I

FUSE DIMENSIONS:
Diameter: 5mm (0.197″);
Length: 20mm (0.787″).

CATALOG NUMBER	AMPERE RATING	VOLTAGE RATING	CATALOG NUMBER	AMPERE RATING	VOLTAGE RATING	CATALOG NUMBER	AMPERE RATING	VOLTAGE RATING
216.050	.050	250	**216**.315	.315	250	**216** 002	2	250
216.063	.063	250	**216**.400	.400	250	**216** 02.5	2.5	250
216.080	.080	250	**216**.500	.500	250	**216** 3.15	3.15	250
216.100	.100	250	**216**.630	.630	250	**216** 004	4	250
216.125	.125	250	**216**.800	.800	250	**216** 005	5	250
216.160	.160	250	**216** 001	1	250	**216** 06.3	6.3	250
216.200	.200	250	**216** 1.25	1.25	250	**216** 008	8*	250
216.250	.250	250	**216** 01.6	1.6	250	**216** 010	10*	250

*Standards for 5x20mm fuses do not include ratings above 6.3 amperes.

Fast-Acting Type

ELECTRICAL CHARACTERISTICS:

	RATING AND BLOW TIME				
AMPERAGE	**150%**	**210%**	**275%**	**400%**	**1000%**
.032—.100	60 minutes minimum	30 minutes maximum	0.01—0.5 seconds	0.003—0.1 seconds	0.02 seconds maximum
.125—10	60 minutes minimum	30 minutes maximum	.05—2 seconds	0.01—0.3 seconds	0.02 seconds maximum

217 000 **Series/Type F**



APPROVALS: SEMKO approved through 6.3 amperes. BEAB approved from .050—6.3 amperes.

INTERRUPTING CAPACITY: 35 amperes or 10 × rated current, whichever is greater.

DESIGN STANDARDS:

I.E.C.	Publication 127, Sheet II
C.E.E.	Publication 4, Sheet II
DIN	41661
BS	4265 Sheet II
SEMKO	24 Normblad II
C	93-430 Feuille de Norme II

FUSE DIMENSIONS:
Diameter: 5mm (0.197″);
Length: 20mm (0.787″).

CATALOG NUMBER	AMPERE RATING	VOLTAGE RATING	CATALOG NUMBER	AMPERE RATING	VOLTAGE RATING	CATALOG NUMBER	AMPERE RATING	VOLTAGE RATING
217.032	.032	250	**217**.250	.250	250	**217** 002	2	250
217.040	.040	250	**217**.315	.315	250	**217** 02.5	2.5	250
217.050	.050	250	**217**.400	.400	250	**217** 3.15	3.15	250
217.063	.063	250	**217**.500	.500	250	**217** 004	4	250
217.080	.080	250	**217**.630	.630	250	**217** 005	5	250
217.100	.100	250	**217**.800	.800	250	**217** 06.3	6.3	250
217.125	.125	250	**217** 001	1	250	**217** 008	8*	250
217.160	.160	250	**217** 01.25	1.25	250	**217** 010	10*	250
217.200	.200	250	**217** 01.6	1.6	250			

*Standards for 5x20mm fuses do not include ratings above 6.3 amperes.

FUSES
METRIC (5 x 20mm)
Slo-Blo® Type

218 000 **Series/Type T**



FUSE DIMENSIONS:
Diameter: 5mm (0.197″);
Length: 20mm (0.787″).

ELECTRICAL CHARACTERISTICS:

	RATING AND BLOW TIME				
AMPERAGE	**150%**	**210%**	**275%**	**400%**	**1000%**
.032—.100	60 minutes minimum	2 minutes maximum	0.2—10 seconds	0.04—3 seconds	0.01—0.3 seconds
.125—10	60 minutes minimum	2 minutes maximum	0.6—10 seconds	0.15—3 seconds	0.02—0.3 seconds

APPROVALS: SEMKO and BEAB approved through 6.3 amperes.

INTERRUPTING CAPACITY: 35 amperes or 10 × rated current, whichever is greater.

DESIGN STANDARDS:

I.E.C.	Publication 127, Sheet III
C.E.E.	Publication 4, Sheet III
BS	4265 Sheet III
DIN	41662
SEMKO	24 Normblad III
C	93-430 Feuille de Norme III

CATALOG NUMBER	AMPERE RATING	VOLTAGE RATING	CATALOG NUMBER	AMPERE RATING	VOLTAGE RATING
218.032	.032	250	**218**.630	.630	250
218.040	.040	250	**218**.800	.800	250
218.050	.050	250	**218** 001	1	250
218.063	.063	250	**218** 1.25	1.25	250
218.080	.080	250	**218** 01.6	1.6	250
218.100	.100	250	**218** 002	2	250
218.125	.125	250	**218** 02.5	2.5	250
218.160	.160	250	**218** 3.15	3.15	250
218.200	.200	250	**218** 004	4	250
218.250	.250	250	**218** 005	5	250
218.315	.315	250	**218** 06.3	6.3	250
218.400	.400	250	**218** 008	8*	250
218.500	.500	250	**218** 010	10*	250

*Standards for 5x20mm fuses do not include ratings above 6.3 amperes.

FUSES
3AG GLASS BODY

Fast-Acting Type

ELECTRICAL CHARACTERISTICS:

RATING	BLOW TIME
110%	4 hours, minimum
135%	1 hour, maximum
200%	5 seconds, maximum

APPROVALS: Listed by Underwriters Laboratories and Certified by CSA.

FUSES TO MIL SPEC: See Military Section.

CATALOG NUMBER	CATALOG NUMBER	AMPERE RATING	VOLTAGE RATING	CATALOG NUMBER	CATALOG NUMBER	AMPERE RATING	VOLTAGE RATING
312.010	318.010	1/100	250	312.750	318.750	3/4	250
312.031	318.031	1/32	250	312 001	318 001	1	250
312.062	318.062	1/16	250	312 1.25	318 1.25	1-1/4	250
312.100	318.100	1/10	250	312 01.5	318 01.5	1-1/2	250
312.125	318.125	1/8	250	312 01.6	318 01.6	1-6/10	250
312.150	318.150	15/100	250	312 002	318 002	2	250
312.175	318.175	.175	250	312 02.5	318 02.5	2-1/2	250
312.187	318.187	3/16	250	312 003	318 003	3	250
312.200	318.200	2/10	250	312 004	318 004	4	250
312.250	318.250	1/4	250	312 005	318 005	5	250
312.300	318.300	3/10	250	312 006	318 006	6	250
312.375	318.375	3/8	250	312 007	318 007	7	250
312.500	318.500	1/2	250	312 008	318 008	8	250
312.600	318.600	6/10	250	312 010	318 010	10	250

312 000 Series



312 SERIES FUSE DIMENSIONS:
Diameter: 1/4″; Length: 1-1/4″.

318 000 Series



318 SERIES FUSE DIMENSIONS:
Diameter: .275″; Length: 1.275″;
Pigtail Diameter: .032″;
Pigtail Length: 1.50″;
Pigtail Material: Tinned copper wire.

Slo-Blo® Type

ELECTRICAL CHARACTERISTICS:

RATING	BLOW TIME
110%	4 hours, minimum
135%	1 hour, maximum
200%	5 seconds, minimum

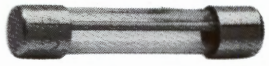
APPROVALS: Listed by Underwriters Laboratories and Certified by CSA through 7 amperes. Recognized under the Components Program of U.L. from 8 through 30 amperes.

PATENTS: U.S. Patent #4,409,729.

FUSES TO MIL SPEC: See Military Section.

CATALOG NUMBER	CATALOG NUMBER	AMPERE RATING	VOLTAGE RATING	CATALOG NUMBER	CATALOG NUMBER	AMPERE RATING	VOLTAGE RATING
313.010	315.010	1/100	250	313 1.25	315 1.25	1-1/4	250
313.031	315.031	1/32	250	313 01.5	315 01.5	1-1/2	250
313.040	315.040	4/100	250	313 01.6	315 01.6	1-6/10	250
313.062	315.062	1/16	250	313 01.8	315 01.8	1-8/10	250
313.100	315.100	1/10	250	313 002	315 002	2	250
313.125	315.125	1/8	250	313 2.25	315 2.25	2-1/4	250
313.150	315.150	15/100	250	313 02.5	315 02.5	2-1/2	250
313.175	315.175	.175	250	313 02.8	315 02.8	2-8/10	250
313.187	315.187	3/16	250	313 003	315 003	3	250
313.200	315.200	2/10	250	313 03.2	315 03.2	3-2/10	250
313.250	315.250	1/4	250	313 004	315 004	4	250
313.300	315.300	3/10	250	313 005	315 005	5	250
313.375	315.375	3/8	250	313 6.25	315 6.25	6-1/4	250
313.400	315.400	4/10	250	313 007	315 007	7	250
313.500	315.500	1/2	250	313 008	315 008	8	32
313.600	315.600	6/10	250	313 010	315 010	10	32
313.700	315.700	7/10	250	313 012	315 012	12	32
313.750	315.750	3/4	250	313 015	315 015	15	32
313.800	315.800	8/10	250	313 020	315 020	20	32
313 001	315 001	1	250	313 025	315 025	25	32
313 01.2	315 01.2	1-2/10	250	313 030	315 030	30	32

313 000 Series



313 SERIES FUSE DIMENSIONS:
Diameter: 1/4″; Length: 1-1/4″.

315 000 Series



315 SERIES FUSE DIMENSIONS:
Diameter: .275″; Length: 1.275″;
Pigtail Diameter: .032″ (1/100—15A),
.040″ (20—30A);
Pigtail Length: 1.50″;
Pigtail Material: Tinned copper wire.

FUSES
3AB CERAMIC BODY

Normal-Blo Type

314 000 Series



314 SERIES FUSE DIMENSIONS:
Diameter: 1/4″; Length: 1-1/4″.

324 000 Series



324 SERIES FUSE DIMENSIONS:
Diameter: .275″; Length: 1.275″;
Pigtail Diameter: .032″ (1/8 — 15A),
.040″ (20 — 30A);
Pigtail Length: 1.50″;
Pigtail Material: Tinned copper wire.

ELECTRICAL CHARACTERISTICS:

RATING	AMPERAGE	BLOW TIME
110%	1/8—30	4 hours, minimum
135%	1/8—30	1 hour, maximum
200%	1/8—12	15 seconds, maximum
200%	15—30	60 seconds, maximum

APPROVALS: Listed by Underwriters Laboratories and Certified by CSA through 15 amperes. Recognized under the Components Program of Underwriters Laboratories from 20 through 30 amperes.

CATALOG NUMBER	CATALOG NUMBER	AMPERE RATING	VOLTAGE RATING
314.125	**324**.125	1/8	250
314.250	**324**.250	1/4	250
314.375	**324**.375	3/8	250
314.500	**324**.500	1/2	250
314.750	**324**.750	3/4	250
314 001	**324** 001	1	250
314 002	**324** 002	2	250
314 003	**324** 003	3	250
314 004	**324** 004	4	250
314 005	**324** 005	5	250
314 006	**324** 006	6	250
314 007	**324** 007	7	250
314 008	**324** 008	8	250
314 010	**324** 010	10	250
314 012	**324** 012	12	250
314 015	**324** 015	15	250
314 020	**324** 020	20	250
314 025	**324** 025	25	125
314 030	**324** 030	30	125

Slo-Blo® Type

326 000 Series



FUSE DIMENSIONS:
Diameter: 1/4″; Length: 1-1/4″.

ELECTRICAL CHARACTERISTICS:

RATING	BLOW TIME
110%	4 hours, minimum
135%	1 hour, maximum
200%	5 seconds, minimum

APPROVALS: Listed by Underwriters Laboratories through 10 amperes. Recognized under the Components Program of Underwriters Laboratories from 12 through 30 amperes. Certified by CSA from 1/4 through 10 amperes.

CATALOG NUMBER	AMPERE RATING	VOLTAGE RATING	CATALOG NUMBER	AMPERE RATING	VOLTAGE RATING
326.010	1/100	250	**326** 1.25	1-1/4	250
326.031	1/32	250	**326** 01.5	1-1/2	250
326.062	1/16	250	**326** 01.6	1-6/10	250
326.100	1/10	250	**326** 002	2	250
326.125	1/8	250	**326** 02.5	2-1/2	250
326.150	15/100	250	**326** 02.8	2-8/10	250
326.175	.175	250	**326** 003	3	250
326.187	3/16	250	**326** 03.2	3-2/10	250
326.200	2/10	250	**326** 004	4	250
326.250	1/4	250	**326** 005	5	250
326.300	3/10	250	**326** 6.25	6-1/4	250
326.375	3/8	250	**326** 007	7	250
326.400	4/10	250	**326** 008	8	250
326.500	1/2	250	**326** 010	10	250
326.600	6/10	250	**326** 012	12	250
326.700	7/10	250	**326** 015	15	250
326.750	3/4	250	**326** 020	20	250
326.800	8/10	250	**326** 025	25	125
326 001	1	250	**326** 030	30	125
326 01.2	1-2/10	250			

FUSES
LOW VOLTAGE

Autofuse® Fast-Acting Type

Originally developed for the automotive industry, this fuse may also be used in a wide variety of low voltage electronic applications.

ELECTRICAL CHARACTERISTICS:

RATING	BLOW TIME
110%	100 hours, minimum
135%	1500 seconds, maximum
200%	5 seconds, maximum
350%	0.08 seconds, minimum

APPROVALS: Listed by Underwriters Laboratories.

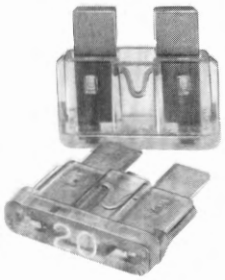
DESIGN STANDARDS: U.L. Standard for Automotive Blade Type Fuses. SAE (Society of Automotive Engineers) J1284.

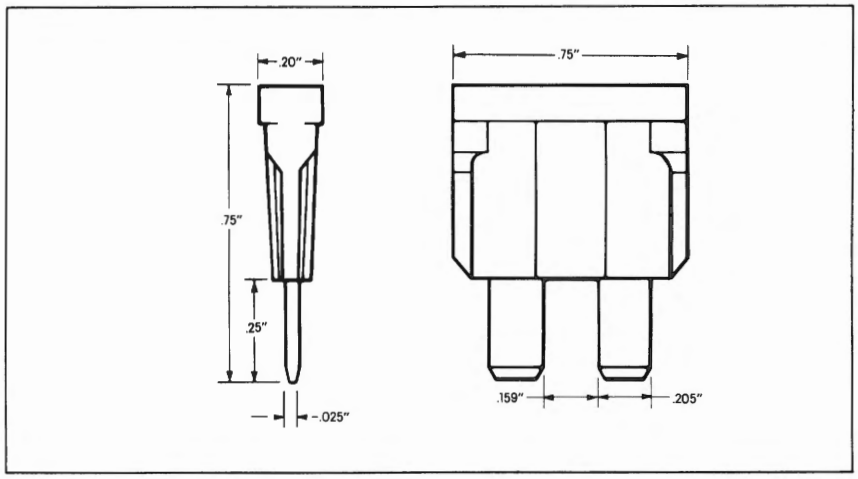
COLOR-CODING: Autofuse® fuses are color-coded for easy amperage identification.

PATENTS: Sixteen worldwide. U.S. Patent #3,909,767.

CATALOG NUMBER	AMPERE RATING	VOLTAGE RATING	COLOR CODE
257 003	3	32	Violet
257 004	4	32	Pink
257 005	5	32	Tan
257 07.5	7-1/2	32	Brown
257 010	10	32	Red
257 015	15	32	Lt. Blue
257 020	20	32	Yellow
257 025	25	32	Natural
257 030	30	32	Lt. Green

257 000 **Series**





SFE Normal-Blo Type

ELECTRICAL CHARACTERISTICS:

RATING	BLOW TIME
110%	4 hours, minimum
135%	1 hour, maximum
200%	10 seconds, maximum

APPROVALS: Listed by Underwriters Laboratories.

DESIGN STANDARDS: U.L. Standard 275. SAE (Society of Automotive Engineers) J554.

CATALOG NUMBER	AMPERE RATING	VOLTAGE RATING	FUSE LENGTH
307 004	4	32	5/8"
307 006	6	32	3/4"
307 07.5	7-1/2	32	7/8"
307 009	9	32	7/8"
307 014	14	32	1-1/16"
307 020	20	32	1-1/4"
307 030	30	32	1-7/16"

307 000 **Series**



FUSE DIMENSIONS:
Diameter: 1/4"; Length: See chart.

1 AG Normal-Blo Type

301 000 **Series**



FUSE DIMENSIONS:
Diameter: 1/4″; Length: 5/8″.

ELECTRICAL CHARACTERISTICS:

RATING	BLOW TIME
110%	4 hours, minimum
135%	1 hour, maximum
200%	10 seconds, maximum

APPROVALS: Listed by Underwriters Laboratories from 1 through 1-1/2 amperes. Recognized under the Components Program of Underwriters Laboratories from 2 through 10 amperes.

CATALOG NUMBER	AMPERE RATING	VOLTAGE RATING
301 001	1	125
301 01.5	1-1/2	125
301 002	2	32
301 02.5	2-1/2	32
301 003	3	32
301 005	5	32
301 006	6	32
301 07.5	7-1/2	32
301 010	10	32
301 015	15	32
301 020	20	32
301 025	25	32
301 030	30	32

For 4-ampere rating use **307** 004.

7AG Normal-Blo Type

303 000 **Series**



FUSE DIMENSIONS:
Diameter: 1/4″; Length: 7/8″.

ELECTRICAL CHARACTERISTICS:

RATING	BLOW TIME
110%	4 hours, minimum
135%	1 hour, maximum
200%	10 seconds, maximum

CATALOG NUMBER	AMPERE RATING	VOLTAGE RATING
303 001	1	32
303 01.5	1-1/2	32
303 02.5	2-1/2	32
303 003	3	32
303 004	4	32
303 005	5	32
303 006	6	32
303 015	15	32
303 020	20	32
303 030	30	32

For 7.5-ampere rating use **307** 07.5, and for 9-ampere rating use **307** 009.

3AG Normal-Blo Type

311 000 **Series**



FUSE DIMENSIONS:
Diameter: 1/4″; Length: 1-1/4″.

ELECTRICAL CHARACTERISTICS:

RATING	BLOW TIME
110%	4 hours, minimum
135%	1 hour, maximum
200%	10 seconds, maximum

APPROVALS: Listed by Underwriters Laboratories and Certified by CSA through 30 amperes.

DESIGN STANDARDS: U.L. Standard 275.

FUSES TO MIL SPEC: See Military Section.

CATALOG NUMBER	AMPERE RATING	VOLTAGE RATING
311 004	4	32
311 005	5	32
311 006	6	32
311 007	7	32
311 07.5	7-1/2	32
311 008	8	32
311 010	10	32
311 012	12	32
311 015	15	32
311 025	25	32
311 030	30	32
311 035	35	32

For 20-ampere rating use **307** 020.

FUSES
8AG GLASS BODY

Fast-Acting Instrument Type

ELECTRICAL CHARACTERISTICS:

RATING	BLOW TIME
100%	4 hours, minimum
200%	5 seconds, maximum

FUSES TO MIL SPEC: See Military Section.

361 000 Series



FUSE DIMENSIONS:
Diameter: 1/4″; Length: 1″.

CATALOG NUMBER	AMPERE RATING	VOLTAGE RATING	CATALOG NUMBER	AMPERE RATING	VOLTAGE RATING
361.002	1/500	250	**361**.375	3/8	250
361.005	1/200	250	**361**.400	4/10	250
361.010	1/100	250	**361**.500	1/2	250
361.015	1/64	250	**361**.750	3/4	250
361.031	1/32	250	**361** 001	1	250
361.062	1/16	250	**361** 01.5	1-1/2	250
361.100	1/10	250	**361** 002	2	250
361.125	1/8	250	**361** 003	3	125
361.187	3/16	250	**361** 004	4	125
361.200	2/10	250	**361** 005	5	125
361.250	1/4	250			

Normal-Blo Type

ELECTRICAL CHARACTERISTICS:

RATING	BLOW TIME
110%	4 hours, minimum
135%	1 hour, maximum
200%	10 seconds, maximum

APPROVALS: Listed by Underwriters Laboratories through 5 amperes. Certified by CSA from 1/4 through 5 amperes.

362 000 Series



362 SERIES FUSE DIMENSIONS:
Diameter: 1/4″; Length: 1″.

CATALOG NUMBER	CATALOG NUMBER	AMPERE RATING	VOLTAGE RATING	CATALOG NUMBER	CATALOG NUMBER	AMPERE RATING	VOLTAGE RATING
362.125	**368**.125	1/8	250	**362** 004	**368** 004	4	125
362.250	**368**.250	1/4	250	**362** 005	**368** 005	5	125
362.375	**368**.375	3/8	250	**362** 006	**368** 006	6	125
362.500	**368**.500	1/2	250	**362** 008	**368** 008	8	32
362.750	**368**.750	3/4	250	**362** 010	**368** 010	10	32
362 001	**368** 001	1	250	**362** 012	**368** 012	12	32
362 01.5	**368** 01.5	1-1/2	125	**362** 015		15	32
362 002	**368** 002	2	125	**362** 020		20	32
362 02.5	**368** 02.5	2-1/2	125	**362** 025		25	32
362 003	**368** 003	3	125	**362** 030		30	32

368 000 Series



368 SERIES FUSE DIMENSIONS:
Diameter: .275″; Length: 1.025″;
Pigtail Diameter: .032″;
Pigtail Length: 1.50″;
Pigtail Material: Tinned copper wire.

FUSES
SPECIAL

Fast-Acting Rectifier Type

322 000 **Series**



FUSE DIMENSIONS:
Diameter: 1/4″; Length: 1-1/4″.

For protection of silicon controlled rectifiers and similar solid-state devices.

ELECTRICAL CHARACTERISTICS:

RATING	AMPERAGE	BLOW TIME
100%	1—30	4 hours, minimum
250%	1—10	.2 sec. max. (pre-arcing)
250%	12—30	1 sec. max. (pre-arcing)

APPROVALS: Recognized under the Components Program of Underwriters Laboratories through 30 amperes.

CATALOG NUMBER	AMPERE RATING	VOLTAGE RATING
322 001	1	250
322 1.25	1-1/4	250
322 002	2	250
322 003	3	250
322 004	4	250
322 005	5	250
322 006	6	250
322 007	7	250
322 008	8	250
322 009	9	250
322 010	10	250
322 012	12	65
322 015	15	65
322 020	20	65
322 025	25	65
322 030	30	65

Normal-Blo Indicating Type

334 000 **Series**



FUSE DIMENSIONS:
Diameter: 1/4″; Length: 1-1/4″.

ELECTRICAL CHARACTERISTICS:

RATING	BLOW TIME
110%	4 hours, minimum
135%	1 hour, maximum
200%	10 seconds, maximum

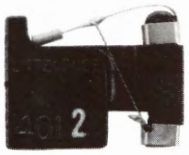
APPROVALS: Listed by Underwriters Laboratories through 5 amperes.

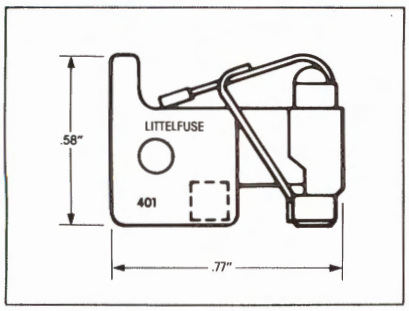
INDICATING PIN: Extends a minimum of 3/16″ from the end of the fuse when the fuse is blown. Pin is silver-plated.
NOTE: To order fuses with red indicating pin, change **334** to **336.**

CATALOG NUMBER	AMPERE RATING	VOLTAGE RATING
334.750	3/4	125
334 001	1	125
334 01.5	1-1/2	125
334 002	2	125
334 003	3	125
334 004	4	125
334 005	5	125
334 006	6	32
334 008	8	32
334 010	10	32
334 012	12	32
334 015	15	32
334 020	20	32

Indicating/Alarm Type

401 000 **Series**





For telecommunications equipment and similar applications.

ELECTRICAL CHARACTERISTICS:

RATING	BLOW TIME
100%	10 minutes, minimum
150%	5 minutes, maximum

APPROVALS: Recognized under the Components Program of Underwriters Laboratories at 60 VDC.

INDICATOR FLAG: Color-coded to indicate ampere rating.

BODY: Black phenolic with 94VO flammability rating.

CONTACTS: Bright alloy-plated beryllium copper.

VOLTAGE: 125 VAC, 60 VDC.

CATALOG NUMBER	AMPERE RATING	FLAG COLOR CODE
401.180	18/100	Yellow
401.250	1/4	Violet
401.500	1/2	Red
401.650	65/100	Black
401.750	3/4	Brown
401 001	1	Gray
401 1.33	1-1/3	White
401 01.5	1-1/2	Yellow/White
401 002	2	Orange
401 003	3	Blue
401 03.5	3-1/2	Blue/White
401 004	4	Brown/White
401 005	5	Green
401 07.5	7-1/2	Black/White
401 010	10	Red/White

FUSES
MIDGET

Fast-Acting Type

ELECTRICAL CHARACTERISTICS:

RATING	AMPERAGE	BLOW TIME
110%	1/10—30	4 hours, minimum
135%	1/10—30	1 hour, maximum
200%	1/10—4	2 seconds, maximum
200%	5—15	15 seconds, maximum
200%	20—30	2 minutes, maximum

APPROVALS: Listed by Underwriters Laboratories and Certified by CSA from 3/10 through 30 amperes.

SHORT CIRCUIT RATING:
600 VAC: 100,000 amperes A.C. (Capable of 200,000 amperes A.C.);
500 VDC:150,000 amperes D.C.

KLK Series



FUSE DIMENSIONS:
Diameter: 13/32″; Length: 1-1/2″.

CATALOG NUMBER	AMPERE RATING	AC VOLTAGE RATING	CATALOG NUMBER	AMPERE RATING	AC VOLTAGE RATING	CATALOG NUMBER	AMPERE RATING	AC VOLTAGE RATING
KLK 1/10	.100	600	KLK 1	1	600	KLK 8	8	600
KLK 1/8	.125	600	KLK 1-1/2	1.5	600	KLK 10	10	600
KLK 2/10	.200	600	KLK 2	2	600	KLK 15	15	600
KLK 1/4	.250	600	KLK 3	3	600	KLK 20	20	600
KLK 3/10	.300	600	KLK 4	4	600	KLK 25	25	600
KLK 1/2	.500	600	KLK 5	5	600	KLK 30	30	600
KLK 3/4	.750	600	KLK 6	6	600			

Fast-Acting Type with Reject Feature

*Similar to **KLK Series** above, but with higher short circuit rating and feature for added protection.*

ELECTRICAL CHARACTERISTICS:

RATING	AMPERAGE	BLOW TIME
110%	1/10—30	4 hours, minimum
135%	1/10—30	1 hour, maximum
200%	1/10—4	2 seconds, maximum
200%	5—15	15 seconds, maximum
200%	20—30	2 minutes, maximum

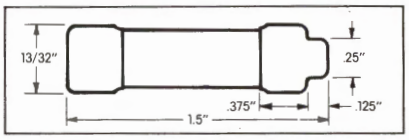
APPROVALS: Listed by U.L. from 3/10 through 30 amperes.

SHORT CIRCUIT RATING: 200,000 amperes A.C.

FUSE DIMENSIONS:
Diameter: 13/32″; Overall Length (including reject feature): 1-1/2″.

KLK-R Series — Class CC





CATALOG NUMBER	AMPERE RATING	AC VOLTAGE RATING	CATALOG NUMBER	AMPERE RATING	AC VOLTAGE RATING	CATALOG NUMBER	AMPERE RATING	AC VOLTAGE RATING
KLK-R 1/10	.100	600	KLK-R 1	1	600	KLK-R 8	8	600
KLK-R 1/8	.125	600	KLK-R 1-1/2	1.5	600	KLK-R 10	10	600
KLK-R 2/10	.200	600	KLK-R 2	2	600	KLK-R 15	15	600
KLK-R 1/4	.250	600	KLK-R 3	3	600	KLK-R 20	20	600
KLK-R 3/10	.300	600	KLK-R 4	4	600	KLK-R 25	25	600
KLK-R 1/2	.500	600	KLK-R 5	5	600	KLK-R 30	30	600
KLK-R 3/4	.750	600	KLK-R 6	6	600			

Fast-Acting Rectifier Type

For the protection of solid state devices.

ELECTRICAL CHARACTERISTICS:

RATING	BLOW TIME
100%	4 Hours, minimum

SHORT CIRCUIT RATING: 30,000 amperes A.C.

FUSE DIMENSIONS:
Diameter: 13/32″; Length: 1-1/2″.

KLA Series



CATALOG NUMBER	AMPERE RATING	AC VOLTAGE RATING	CATALOG NUMBER	AMPERE RATING	AC VOLTAGE RATING	CATALOG NUMBER	AMPERE RATING	AC VOLTAGE RATING
KLA 1/2	.500	130	KLA 6	6	130	KLA 12	12	130
KLA 1	1	130	KLA 7	7	130	KLA 15	15	130
KLA 2	2	130	KLA 8	8	130	KLA 20	20	130
KLA 3	3	130	KLA 9	9	130	KLA 25	25	130
KLA 4	4	130	KLA 10	10	130	KLA 30	30	130
KLA 5	5	130						

Fast-Acting Rectifier Type

KLW Series



ELECTRICAL CHARACTERISTICS:

RATING	BLOW TIME
100%	4 hours, minimum
250%	1 second, maximum

FUSE DIMENSIONS:
Diameter: 13/32″; Length: 1-1/2″.

SHORT CIRCUIT RATING: 30,000 amperes A.C.

CATALOG NUMBER	AMPERE RATING	AC VOLTAGE RATING	CATALOG NUMBER	AMPERE RATING	AC VOLTAGE RATING	CATALOG NUMBER	AMPERE RATING	AC VOLTAGE RATING
KLW 1	1	130	KLW 6	6	130	KLW 12	12	130
KLW 2	2	130	KLW 7	7	130	KLW 15	15	130
KLW 3	3	130	KLW 8	8	130	KLW 20	20	130
KLW 4	4	130	KLW 9	9	130	KLW 25	25	130
KLW 5	5	130	KLW 10	10	130	KLW 30	30	130

Laminated Body Normal-Blo Type

BLF Series



ELECTRICAL CHARACTERISTICS:

RATING	BLOW TIME
110%	4 hours, minimum
135%	1 hour, maximum
200%	15 seconds, maximum

APPROVALS: Listed by Underwriters Laboratories and Certified by CSA.

SHORT CIRCUIT RATING: 10,000 amperes A.C.
NOTE: Not recommended for applications in humid areas.

FUSE DIMENSIONS:
Diameter: 13/32″; Length: 1-1/2″.

CATALOG NUMBER	AMPERE RATING	AC VOLTAGE RATING	CATALOG NUMBER	AMPERE RATING	AC VOLTAGE RATING	CATALOG NUMBER	AMPERE RATING	AC VOLTAGE RATING
BLF 1/2	.500	250	BLF 5	5	250	BLF 10	10	250
BLF 1	1	250	BLF 6	6	250	BLF 12	12	250
BLF 1-1/2	1.5	250	BLF 6-1/4	6.25	250	BLF 15	15	250
BLF 2	2	250	BLF 7	7	250	BLF 20	20	125
BLF 2-1/2	2.5	250	BLF 8	8	250	BLF 25	25	125
BLF 3	3	250	BLF 9	9	250	BLF 30	30	125
BLF 4	4	250						

Fibre Body Normal-Blo Type

BLN Series



ELECTRICAL CHARACTERISTICS:

RATING	BLOW TIME
110%	4 hours, minimum
135%	1 hour, maximum
200%	15 seconds, maximum

APPROVALS: Listed by Underwriters Laboratories and Certified by CSA.

SHORT CIRCUIT RATING: 10,000 amperes A.C.

FUSES TO MIL SPEC: See Military Section.

FUSE DIMENSIONS:
Diameter: 13/32″; Length: 1-1/2″.

CATALOG NUMBER	AMPERE RATING	AC VOLTAGE RATING	CATALOG NUMBER	AMPERE RATING	AC VOLTAGE RATING	CATALOG NUMBER	AMPERE RATING	AC VOLTAGE RATING
BLN 1	1	250	BLN 6	6	250	BLN 15	15	250
BLN 2	2	250	BLN 8	8	250	BLN 20	20	250
BLN 3	3	250	BLN 10	10	250	BLN 25	25	250
BLN 4	4	250	BLN 12	12	250	BLN 30	30	250
BLN 5	5	250						

FUSES
MIDGET

Slo-Blo® 250-Volt Type

ELECTRICAL CHARACTERISTICS:

RATING	BLOW TIME
110%	4 hours, minimum
135%	1 hour, maximum
200%	12 seconds, minimum

APPROVALS: Listed by Underwriters Laboratories and Certified by CSA.

SHORT CIRCUIT RATING: 10,000 amperes A.C.

FUSES TO MIL SPEC: See Military Section.

FLM Series



FUSE DIMENSIONS:
Diameter: 13/32″; Length: 1-1/2″.

CATALOG NUMBER	AMPERE RATING	AC VOLTAGE RATING	CATALOG NUMBER	AMPERE RATING	AC VOLTAGE RATING	CATALOG NUMBER	AMPERE RATING	AC VOLTAGE RATING
FLM 1/10	.100	250	FLM 1-1/2	1.5	250	FLM 5-6/10	5.6	250
FLM 15/100	.150	250	FLM 1-6/10	1.6	250	FLM 6	6	250
FLM 2/10	.200	250	FLM 1-8/10	1.8	250	FLM 6-1/4	6.25	250
FLM 1/4	.250	250	FLM 2	2	250	FLM 7	7	250
FLM 3/10	.300	250	FLM 2-1/4	2.25	250	FLM 8	8	250
FLM 4/10	.400	250	FLM 2-1/2	2.5	250	FLM 9	9	250
FLM 1/2	.500	250	FLM 2-8/10	2.8	250	FLM 10	10	250
FLM 6/10	.600	250	FLM 3	3	250	FLM 12	12	250
FLM 8/10	.800	250	FLM 3-2/10	3.2	250	FLM 15	15	250
FLM 1	1	250	FLM 3-1/2	3.5	250	FLM 20	20	250
FLM 1-1/8	1.125	250	FLM 4	4	250	FLM 25	25	250
FLM 1-1/4	1.250	250	FLM 4-1/2	4.5	250	FLM 30	30	250
FLM 1-4/10	1.4	250	FLM 5	5	250			

Slo-Blo® 500-Volt Type

ELECTRICAL CHARACTERISTICS:

RATING	BLOW TIME
110%	4 hours, minimum
135%	1 hour, maximum
200%	12 seconds, minimum

APPROVALS: Listed by Underwriters Laboratories and Certified by C.S.A.

SHORT CIRCUIT RATING: 10,000 amperes A.C.

FLQ Series



FUSE DIMENSIONS:
Diameter: 13/32″; Length: 1-1/2″.

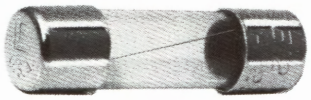
CATALOG NUMBER	AMPERE RATING	AC VOLTAGE RATING*	CATALOG NUMBER	AMPERE RATING	AC VOLTAGE RATING*
FLQ 1/10	.100	500	FLQ 3	3	500
FLQ 1/8	.125	500	FLQ 3-2/10	3.2	500
FLQ 15/100	.150	500	FLQ 3-1/2	3.5	500
FLQ 3/16	.187	500	FLQ 4	4	500
FLQ 2/10	.200	500	FLQ 4-1/2	4.5	500
FLQ 1/4	.250	500	FLQ 5	5	500
FLQ 3/10	.300	500	FLQ 5-6/10	5.6	500
FLQ 4/10	.400	500	FLQ 6	6	500
FLQ 1/2	.500	500	FLQ 6-1/4	6.25	500
FLQ 6/10	.600	500	FLQ 7	7	500
FLQ 8/10	.800	500	FLQ 8	8	500
FLQ 1	1	500	FLQ 9	9	500
FLQ 1-1/8	1.125	500	FLQ 10	10	500
FLQ 1-1/4	1.25	500	FLQ 12	12	500
FLQ 1-1/2	1.5	500	FLQ 14	14	500
FLQ 1-6/10	1.6	500	FLQ 15	15	500
FLQ 2	2	500	FLQ 20	20	500
FLQ 2-1/4	2.25	500	FLQ 25	25	500
FLQ 2-1/2	2.5	500	FLQ 30	30	500

*600 VAC for CSA.

FUSES
SPECIAL MIDGET

Glass Body Normal-Blo Type

511 000 **Series**
512 000 **Series**



FUSE DIMENSIONS:
Diameter: 13/32″; Length: 1-1/2″.

ELECTRICAL CHARACTERISTICS:

RATING	AMPERAGE	BLOW TIME
100%	35—60	4 hours, minimum
110%	1—30	4 hours, minimum
135%	1—30	1 hour, maximum
200%	1—8	5 seconds, maximum
200%	10—30	10 seconds, maximum
300%	35—60	4 seconds, maximum

APPROVALS: Recognized under the Components Program of Underwriters Laboratories from 10 through 60 amperes.

FUSES TO MIL SPEC: See Military Section.

CATALOG NUMBER	AMPERE RATING	VOLTAGE RATING	CATALOG NUMBER	AMPERE RATING	VOLTAGE RATING	CATALOG NUMBER	AMPERE RATING	VOLTAGE RATING
512 001	1	250	**512** 008	8	125	**511** 030	30	32
512 002	2	250	**511** 010	10	32	**511** 035	35	32
512 003	3	250	**511** 015	15	32	**511** 040	40	32
512 004	4	250	**511** 020	20	32	**511** 050	50	32
512 005	5	250	**511** 025	25	32	**511** 060	60	32

Normal-Blo Type

BLS Series



FUSE DIMENSIONS:
Diameter: 13/32″; Length: 1-3/8″.

ELECTRICAL CHARACTERISTICS:

RATING	AMPERAGE	BLOW TIME
110%	2/10—10	4 hours, miminum
135%	2/10—10	1 hour, maximum
200%	2/10—5	5 seconds, maximum
200%	6—10	10 seconds, maximum

APPROVALS: Listed by Underwriters Laboratories from 1/2 through 5 amperes and Certified by CSA from 1/2 through 5 amperes.

SHORT CIRCUIT RATING: 10,000 amperes A.C.

CATALOG NUMBER	AMPERE RATING	AC VOLTAGE RATING	CATALOG NUMBER	AMPERE RATING	AC VOLTAGE RATING	CATALOG NUMBER	AMPERE RATING	AC VOLTAGE RATING
BLS 2/10	.200	600	**BLS** 1-1/2	1.5	600	**BLS** 5	5	600
BLS 4/10	.400	600	**BLS** 1-6/10	1.6	600	**BLS** 6	6	600
BLS 1/2	.500	600	**BLS** 1-8/10	1.8	600	**BLS** 7	7	600
BLS 3/4	.750	600	**BLS** 2	2	600	**BLS** 8	8	600
BLS 8/10	.800	600	**BLS** 3	3	600	**BLS** 10	10	600
BLS 1	1	600	**BLS** 4	4	600			

Slo-Blo® Indicating Type

FLA Series



FUSE DIMENSIONS:
Diameter: 13/32″; Length: 1-1/2″.

ELECTRICAL CHARACTERISTICS:

RATING	BLOW TIME
110%	4 hours, minimum
135%	1 hour, maximum

INDICATING PIN: Extends 7/16″ when fuse blows.

APPROVALS: Listed by Underwriters Laboratories from 1/10 through 15 amperes and Certified by CSA from 1/10 through 10 amperes.

SHORT CIRCUIT RATING: 10,000 amperes A.C.

CATALOG NUMBER	AMPERE RATING	AC VOLTAGE RATING	CATALOG NUMBER	AMPERE RATING	AC VOLTAGE RATING	CATALOG NUMBER	AMPERE RATING	AC VOLTAGE RATING
FLA 1/10	.100	250	**FLA** 1-1/2	1.5	125	**FLA** 5	5	125
FLA 15/100	.15	250	**FLA** 1-6/10	1.6	125	**FLA** 5-6/10	5.6	125
FLA 2/10	.200	250	**FLA** 1-8/10	1.8	125	**FLA** 6	6	125
FLA 1/4	.250	250	**FLA** 2	2	125	**FLA** 6-1/4	6.25	125
FLA 3/10	.300	250	**FLA** 2-1/4	2.25	125	**FLA** 7	7	125
FLA 4/10	.400	250	**FLA** 2-1/2	2.5	125	**FLA** 8	8	125
FLA 1/2	.500	250	**FLA** 2-8/10	2.8	125	**FLA** 10	10	125
FLA 6/10	.600	250	**FLA** 3	3	125	**FLA** 12	12	125
FLA 8/10	.800	250	**FLA** 3-2/10	3.2	125	**FLA** 15	15	125
FLA 1	1	125	**FLA** 3-1/2	3.5	125	**FLA** 20	20	32
FLA 1-1/8	1.125	125	**FLA** 4	4	125	**FLA** 25	25	32
FLA 1-1/4	1.250	125	**FLA** 4-1/2	4.5	125	**FLA** 30	30	32
FLA 1-4/10	1.4	125						

NOTE: Fuses rated 12A and above have dual tube construction.

FUSEHOLDERS
SHOCK-SAFE TYPE

For 3AG or 5x20mm Fuses

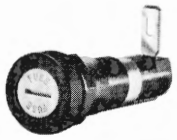
A complete family of fuseholders designed to international specifications. Shock-safe design eliminates any possibility of electrical shock, per IEC Standards 257 and 65. Knobs are available for use with 3AG (1/4" x 1-1/4") fuses or 5 x 20mm fuses.

APPROVALS: Recognized under the Components Program of Underwriters Laboratories and Certified by CSA (20A, 300V).
SEMKO approved (6.3A, 250V).
VDE approved (10A, 250V).

SPECIFICATIONS:
Electrical: Rating: See APPROVALS.
Insulation Resistance: 10,000 megohm minimum at 500 VDC.
Contact Resistance: Less than .005 ohms average at currents up to 1 ampere.
Dielectric Strength: 4000 volts minimum.
Mounting: Threaded styles withstand 15 lb.-in. mounting torque. Maximum panel thickness is 0.31".
Molded Parts: Body Material: Black glass-filled thermoplastic.
Knob Material: Grey or black glass-filled thermoplastic.
Hex Nut Material: Glass-filled thermoplastic.
Knob: Finger-grip fuse extractor type or screwdriver slot fuse extractor type with nickel-plated copper alloy insert. Spring loaded, bayonet style.
Terminals: Brass. Tin-plated. Accept solder or .187" female connector.
Ambient Temperature: −40°C to +85°C.
Vibration: 10—500 Hz .03" constant amplitude or 10 G's constant acceleration.
Hardware: Plastic hex nut, unassembled (threaded styles). Steel retainer, black oxide finish, unassembled (fast-mount styles).

PATENTS: Pending.

FRONT PANEL, LOW PROFILE



FRONT PANEL, HIGH PROFILE



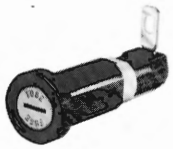
FRONT PANEL



REAR PANEL



LOW PROFILE, FAST MOUNT



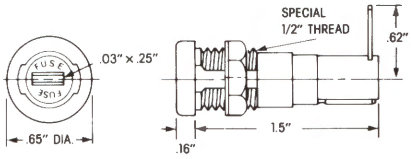
SHOCK-SAFE FUSEHOLDER SELECTOR GUIDE

CATALOG NUMBER									
1/4"x1-1/4" (3AG)	5x20mm	KNOB TYPE	LOW PROFILE	HIGH PROFILE	FRONT MOUNT	REAR MOUNT	P.C. BOARD MOUNT	RT. ANGLE TERMINAL	STRAIGHT TERMINAL
345 601	345 621	Screwdriver Slot	X		X			X	
345 602	345 622	Screwdriver Slot		X	X			X	
345 603	345 623	Finger Grip		X	X			X	
345 611	345 631	Screwdriver Slot	X		X				X
345 612	345 632	Screwdriver Slot		X	X				X
345 613	345 633	Finger Grip		X	X				X
345 701*	345 721*	Screwdriver Slot	X		X†			X	
345 711*	345 731*	Screwdriver Slot	X		X†				X
345 903*	345 923*	Finger Grip		X		X		X	
345 913*	345 933*	Finger Grip		X		X			X
345 101•	345 121•	Screwdriver Slot	X				X•		

*SEMKO and VDE approvals pending. †Mounted with retainer ring. •See page 26 for P.C. Board Style.
To order bodies and knobs separately, see next page.

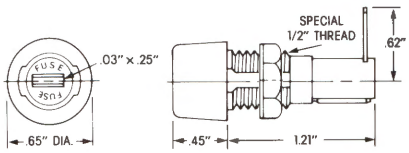
FUSEHOLDERS
SHOCK-SAFE TYPE

For 3AG or 5x20mm Fuses



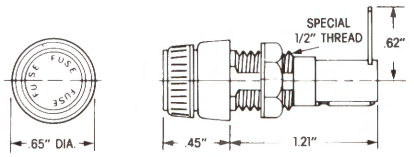
CATALOG NUMBER		RT. ANGLE BOTTOM TERM.	STRAIGHT BOTTOM TERM.
1/4"x1-1/4" FUSES	5x20mm FUSES		
345 601	**345** 621	X	
345 611	**345** 631		X

Body and Nut only: **345** 601-010 (Rt. Angle); **345** 611-010 (Straight).
Knob only: **345** 601-020 (1/4" x 1-1/4"); **345** 621-020 (5 x 20mm).



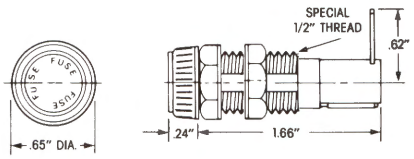
CATALOG NUMBER		RT. ANGLE BOTTOM TERM.	STRAIGHT BOTTOM TERM.
1/4"x1-1/4" FUSES	5x20mm FUSES		
345 602	**345** 622	X	
345 612	**345** 632		X

Body and Nut only: **345** 602-010 (Rt. Angle); **345** 612-010 (Straight).
Knob only: **345** 601-020 (1/4" x 1-1/4"); **345** 621-020 (5 x 20mm).



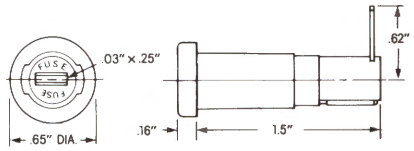
CATALOG NUMBER		RT. ANGLE BOTTOM TERM.	STRAIGHT BOTTOM TERM.
1/4"x1-1/4" FUSES	5x20mm FUSES		
345 603	**345** 623	X	
345 613	**345** 633		X

Body and Nut only: **345** 603-010 (Rt. Angle); **345** 613-010 (Straight).
Knob only: **345** 603-020 (1/4" x 1-1/4"); **345** 623-020 (5 x 20mm).



CATALOG NUMBER		RT. ANGLE BOTTOM TERM.	STRAIGHT BOTTOM TERM.
1/4"x1-1/4" FUSES	5x20mm FUSES		
345 903	**345** 923	X	
345 913	**345** 933		X

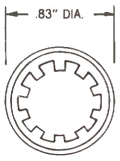
Body and Nuts (2) only: **345** 903-010 (Rt. Angle); **345** 913-010 (Straight).
Knob only: **345** 603-020 (1/4" x 1-1/4"); **345** 623-020 (5 x 20mm).



CATALOG NUMBER		RT. ANGLE BOTTOM TERM.	STRAIGHT BOTTOM TERM.
1/4"x1-1/4" FUSES	5x20mm FUSES		
345 701	**345** 721	X	
345 711	**345** 731		X

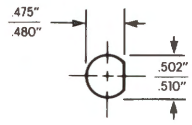
Body and Retaining Ring only: **345** 701-010 (Rt. Angle); **345** 711-010 (Straight).
Knob only: **345** 601-020 (1/4" x 1-1/4"); **345** 621-020 (5 x 20mm).

"Push-On" Type Retaining Ring

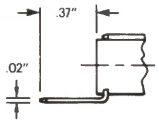


NOTE: Knobs are color-coded. On screwdriver slot type, knobs are grey for 1/4" x 1-1/4" fuses, black for 5 x 20mm fuses. On finger grip type, the lettering on knobs for 1/4" x 1-1/4" fuses are filled with grey paint.

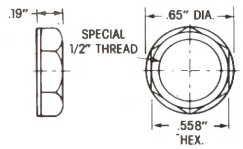
Suggested Mounting Hole



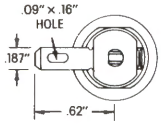
Straight Bottom Terminal



Plastic Hex Nut with Flange



Right Angle Bottom Terminal



FUSEHOLDERS
P.C. BOARD AND PANEL MOUNT TYPES

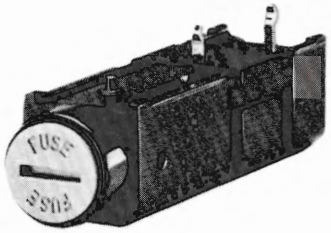
P.C. Board Type for 3AG or 5x20mm Fuses

Similar to shock-safe fuseholders shown on preceding page but designed for p.c. board mounting. Shock-safe design per IEC Standards 257 and 65. Two different knob styles available for use with 1/4" x 1-1/4" or 5 x 20mm fuses.

APPROVALS: Recognized under the Components Program of Underwriters Laboratories (16A, 250V).
Certified by CSA (15A, 250V).
SEMKO and VDE approvals pending.

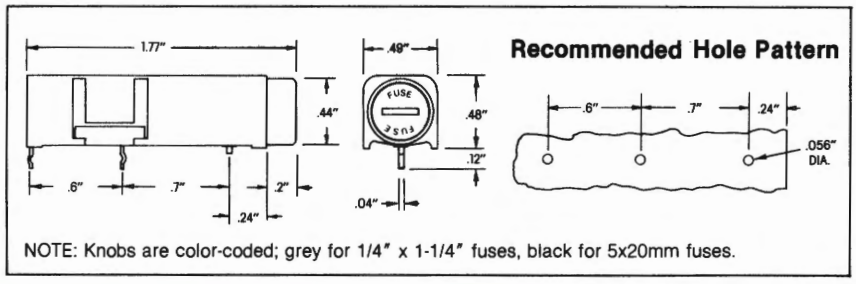
SPECIFICATIONS:
Electrical: Rating: See APPROVALS.
Insulation Resistance: 10,000 megohm minimum at 500 VDC.
Contact Resistance: Less than .005 ohms average at a current of one ampere.
Dielectric Strength: 4000 volts minimum.
Mounting: Intended for soldering to printed circuit boards.
Molded Parts: Body Material: Black glass-filled thermoplastic.
Knob Material: Grey or black glass-filled thermoplastic.
Knob: Screwdriver slot, fuse extractor type with nickel-plated copper alloy insert. Spring-loaded, bayonet style.
Terminals: Brass. Tin-plated.
Ambient Temperature: −40°C to +85°C.

345 100 **Series**



CATALOG NUMBER	
1/4"x1-1/4" FUSES	**5x20mm FUSES**
345 101	**345** 121

Body only: **345** 101-010
Knob only: **345** 101-020 (1/4" x 1-1/4");
345 121-020 (5 x 20mm).



NOTE: Knobs are color-coded; grey for 1/4" x 1-1/4" fuses, black for 5x20mm fuses.

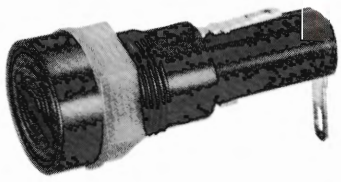
Panel Mount Type for 5 x 20mm Fuses

345 401 design is shock-safe per IEC Standard 257.

APPROVALS: 345 401 is SEMKO approved.

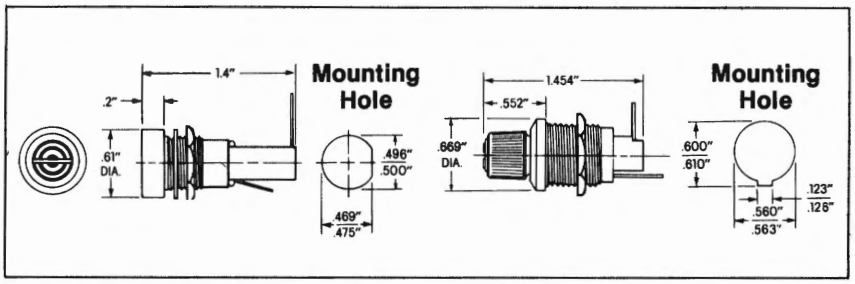
SPECIFICATIONS:
Electrical: 6.3A, 250V.
Mounting: Withstands 10 lb.-in. mounting torque; maximum panel thickness is .18".
Molded Parts: Black thermoset.
Knob: 345 401—Bayonet style, screwdriver slot.
345 402—Finger grip, screw style.
Terminals: Solder type.
Hardware: 345 401—Washer and hex nut unassembled.
345 402—Hex nut unassembled.

345 401



345 402





FUSEHOLDERS
PANEL MOUNT TYPE

For 3AG Fuses

APPROVALS: Recognized under the Components Program of Underwriters Laboratories and Certified by C.S.A.

FUSEHOLDERS TO MIL SPEC: See Military Section.

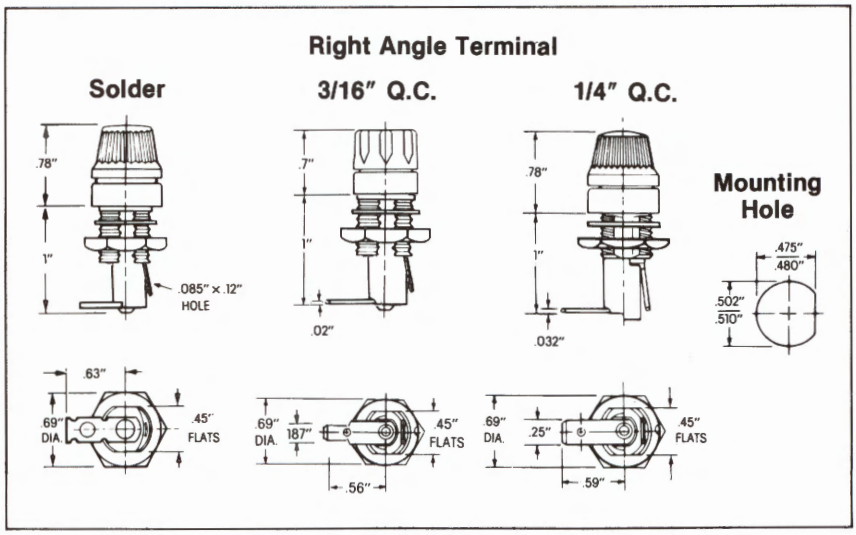
SPECIFICATIONS:
Electrical: Rated at 20 amperes for any voltage up to 250V. Dielectric withstanding voltage exceeds 2400 volts.
Mounting: Withstands 15 lb.-in. mounting torque; maximum panel thickness is .18″.
Molded Parts: Black thermoset.
Knob: Bayonet style with white lettering.
Terminals: Brass. Tin-plated, except 1/4″ Quick-Connect terminals are nickel-plated.
Hardware: Standard fuseholders are supplied with a neoprene washer and a hex nut unassembled. To order with a lockwasher (L) and/or drip-proof seal (P), add the appropriate suffix (L, P, or PL) to the catalog number. Example: **342** 004PL is a holder with lockwasher and drip-proof seal in addition to neoprene washer and hex nut.

342 000 **Series**



Fluted knob shown. Knurled knob also available. See table below.

CATALOG NUMBER		
FLUTED KNOB	KNURLED KNOB	TYPE OF TERMINAL
342 004	**342** 022	Solder
342 028	**342** 048	3/16″ Q.C.
342 828	**342** 848	1/4″ Q.C.

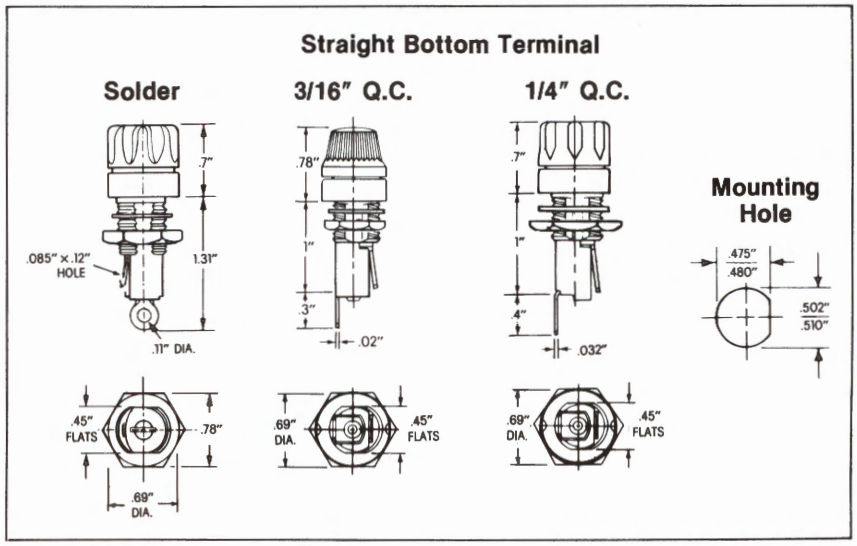


342 000 **Series**



Knurled knob shown. Fluted knob also available. See table below.

CATALOG NUMBER		
FLUTED KNOB	KNURLED KNOB	TYPE OF TERMINAL
342 014	**342** 012	Solder
342 038	**342** 058	3/16″ Q.C.
342 838	**342** 858	1/4″ Q.C.



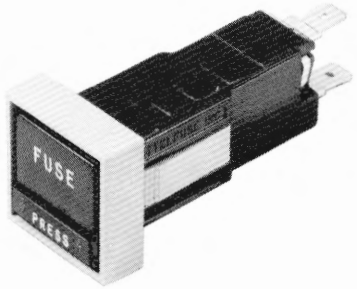
FUSEHOLDERS
LOW PROFILE SNAP-MOUNT TYPE

For 3AG Fuses

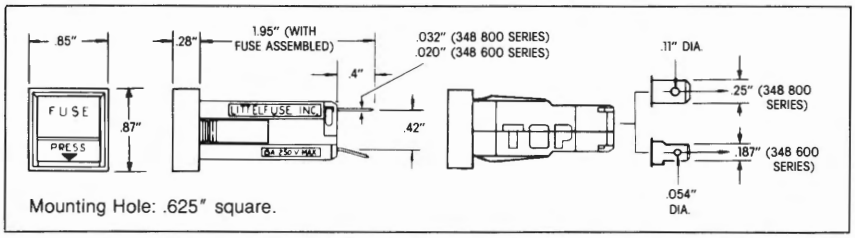
APPROVALS: Recognized under the Components Program of Underwriters Laboratories and Certified by C.S.A.

PATENTS: U.S. Patent #3,659,252.

348 000 **Series**



SPECIFICATIONS:
Electrical: 348 Series: Rated at 15 amps for any voltage up to 250V.
344 Series: Rated at 15 amps and lamp voltage as shown below.
Dielectric withstanding voltage exceeds 1500 volts.
When designing indicating type fuseholders into a circuit, consideration should be given to the resistance of fractional amperage fuses and the parallel resistance of the indicator lamp and its resistor.
Mounting: Panel thickness range: .031" through .125"
Molded Parts: Black thermoset body. Thermoplastic bezel, cap and lens (see Table below for colors). For continuous duty at 125°C except fuseholders with incandescent lamps limited to 60°C.
Terminals: Combination Quick-Connect/solder type. Brass. Tin-plated.
Fuse Installation: Insert a fuse into the cap and push the assembly into the body until it latches. Press in and down to unlatch for removal.



Mounting Hole: .625" square.

SIX-DIGIT CATALOG NUMBERS CONSIST OF:

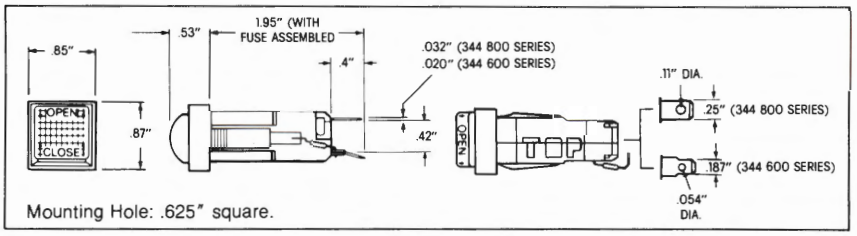
SERIES NUMBER — — —	TERMINAL STYLE —	BEZEL COLOR —	CAP COLOR —
348 for 3AG Fuses	**6** for 3/16" wide Q.C. Terminal **8** for 1/4" wide Q.C. Terminal	**1** for Red **2** for Green **3** for Yellow **4** for Blue **5** for White **7** for Black **9** for Grey	**1** for Red **2** for Green **3** for Yellow **4** for Blue **5** for White **7** for Black **9** for Grey

Example: **348** 611

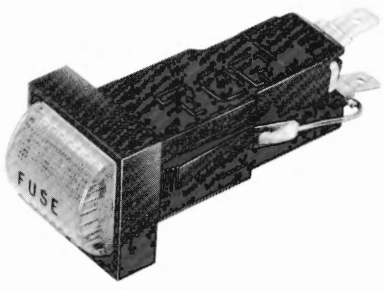
Blown-Fuse Indicating Type

APPROVALS AND SPECIFICATIONS: See above.

344 600 **Series**
344 800 **Series**



Mounting Hole: .625" square.

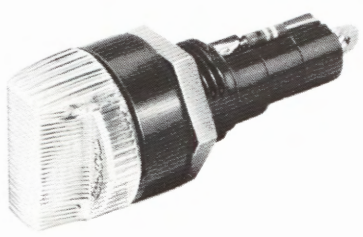


CATALOG NUMBER 3/16" Q.C. TERMINALS	CATALOG NUMBER 1/4" Q.C. TERMINALS	LAMP TYPE	LAMP VOLTAGE	LAMP CURRENT	RESISTOR	LENS COLOR
344 601	**344** 801	Incandescent	6	40 ma	No	Amber
344 602	**344** 802	Incandescent	14	30 ma	No	Amber
344 603	**344** 803	Incandescent	28	40 ma	No	Amber
344 604	**344** 804	Neon	125	1.2 ma	Yes	Clear
344 605	**344** 805	Neon	250	.3 ma	Yes	Clear

Standard body and bezel color is black; other bezel colors available on special order.

FUSEHOLDERS
BLOWN-FUSE INDICATING PANEL MOUNT TYPE
For 3AG Fuses

344 000 **Series**

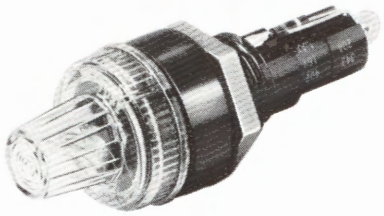


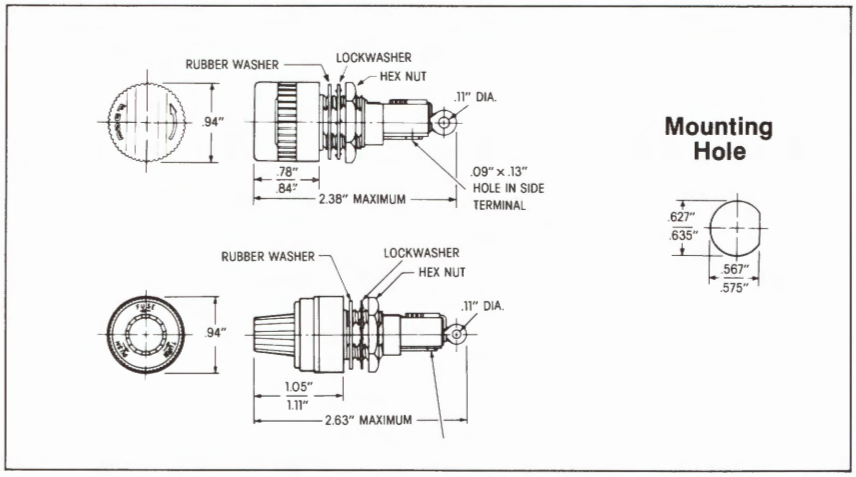
APPROVALS: Recognized under the Components Program of Underwriters Laboratories and Certified by C.S.A.

FUSEHOLDERS TO MIL SPEC: See Military Section.

SPECIFICATIONS:
Electrical: Rated at 20 amperes for any voltage up to 250V. Dielectric withstanding voltage exceeds 1500 volts. All fuseholders are supplied with a resistor. When designing indicating type fuseholders into a circuit, consideration should be given to the resistance of fractional amperage fuses and the parallel resistance of the indicator lamp and its resistor.
Mounting: Withstands 15 lb.-in. mounting torque; Maximum panel thickness is .250".
Molded Parts: Black thermoset, except lens is thermoplastic. (See Table below for color.)
Knob: Bayonet style.
Terminals: Brass. Tin-plated.
Hardware: Neoprene washer, lockwasher, hex nut and O-ring unassembled. O-ring can be assembled to knob for drip-proof seal.

344 400 **Series**

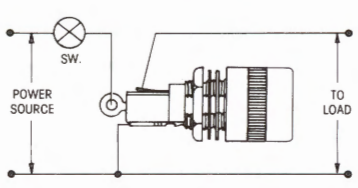




CATALOG NUMBER					
344 000 SERIES	**344 400 SERIES**	**VOLTAGE RANGE**	**LAMP TYPE**	**LAMP CURRENT RATING**	**LENS COLOR**
344 006	**344** 401	2.5 to 7	6V Incandescent	.20 amp	Amber
344 012	**344** 402	7 to 16	14V Incandescent	.08 amp	Amber
344 024	**344** 403	16 to 32	28V Incandescent	.04 amp	Amber
344 125	**344** 404	100 to 125	Neon	.002 amp	Clear
344 250	**344** 405	200 to 250	Neon	.002 amp	Clear

PILOT LIGHT FEATURE: This fuseholder may also serve as a pilot light. In an application of this kind, the indicator light is on when the circuit is on, and the light is off when the fuse is blown. This is the reverse of the usual application of indicating fuseholders. To order this fuseholder with the pilot light feature, change the Catalog Series Number from **344** to **343.**

Wiring for Pilot Light
343 000 **Series**



FUSEHOLDERS
PANEL MOUNT TYPE

Watertight Type for 3AG Fuses

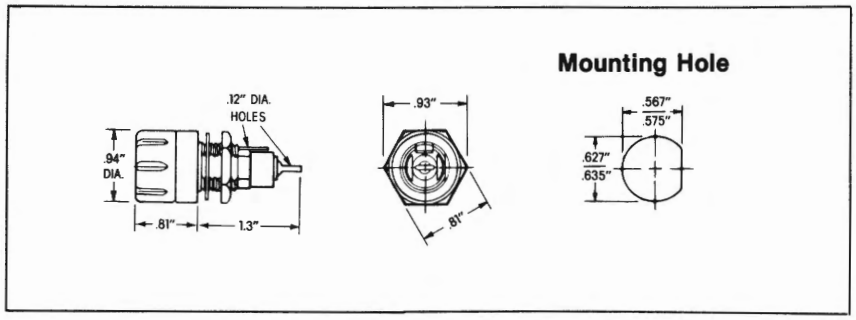
APPROVALS: Recognized under the Components Program of Underwriters Laboratories.

SPECIFICATIONS:
Electrical: Rated at 20 amperes for any voltage up to 250V. Dielectric withstanding voltage exceeds 1500 volts.
Mounting: Withstands 15 lb.-in. mounting torque; maximum panel thickness is .25".
Molded Parts: Black thermoset.
Knob: Screw type.
Terminals: Brass. Tin-plated. Solder type.
Seal: O-rings provide watertight seal per MIL-F-19207.
Hardware: O-rings (2) and hex nut, unassembled.

FUSEHOLDERS TO MIL SPEC: See Military Section.

342 006





RFI/Watertight Type for 3AG Fuses

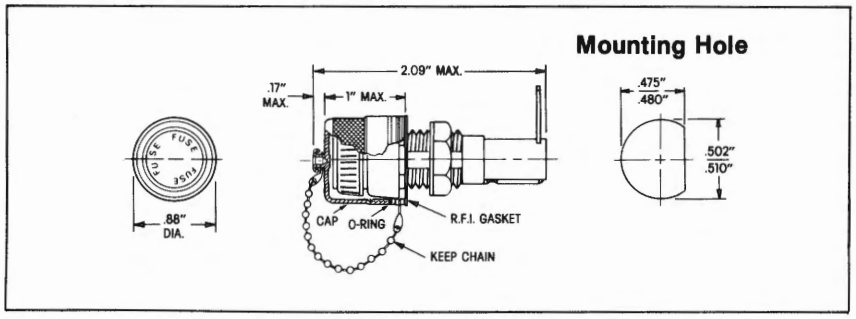
Radio frequency shielded fuseholders eliminate possible transmission or reception of RF signals through the hole in the chassis in which the fuseholder is mounted. These fuseholders comply with the watertight construction requirement of MIL-F-19207 and the shock-safe requirements of IEC 65 and 257. A rubber O-ring and conductive gasket maintain RFI and watertight construction.

SPECIFICATIONS: The basic fuseholder used is the **345** 603 Shock-safe holder. See page 24 for detailed specifications.

FUSEHOLDERS TO MIL SPEC: See Military Section.

340 300 **Series**





CATALOG NUMBER	BRASS SHIELDING CAP FINISH
340 312	Nickel-plated
340 313	Dull Black

FUSEHOLDERS
PANEL MOUNT TYPE

Screwdriver Slot Knob Type for 3AG or 8AG Fuses

341 000 **Series**
371 000 **Series**

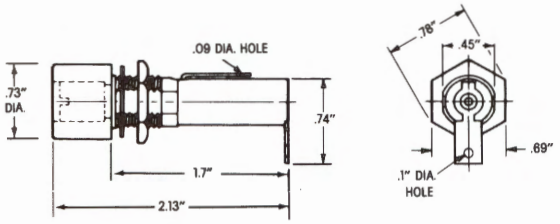


APPROVALS: 3AG fuseholders are Recognized under the Components Program of Underwriters Laboratories and Certified by C.S.A.

SPECIFICATIONS:
Electrical: Rated at 15 amperes for any voltage up to 250V.
Mounting: Withstands 15 lb.-in. mounting torque; maximum panel thickness is .31″.
Molded Parts: Finger grip knobs and bodies are black thermoset. Screwdriver type knob is red thermoset.
Knobs: Screw-type with white lettering on 3AG styles and blue lettering on 8AG styles.
Terminals: Brass. Tin-plated. Solder type.
Hardware: Neoprene washer, lockwasher and hex nut, unassembled.

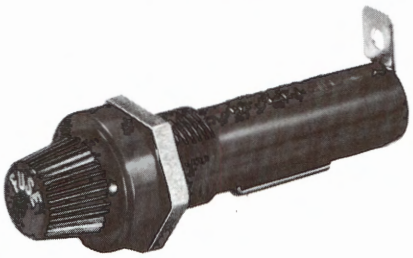
CATALOG NUMBER	
3AG TYPE	8AG TYPE
341 001	**371** 001

Mounting Hole



Fingergrip Knob Type for 3AG or 8AG Fuses

342 000 **Series**
372 000 **Series**

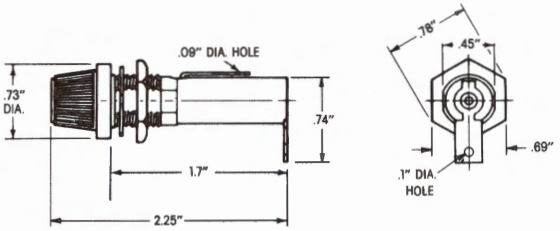


APPROVALS: See above.

SPECIFICATIONS: See above.

CATALOG NUMBER	
3AG TYPE	8AG TYPE
342 001	**372** 001

Mounting Hole



FUSEHOLDERS
PANEL MOUNT TYPE

For 5AG or Midget Fuses

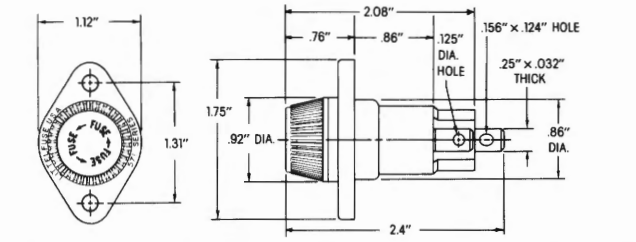
APPROVALS: Recognized under the Components Program of Underwriters Laboratories and Certified by CSA.

SPECIFICATIONS:
Electrical: Rated at 30 amperes for any voltage up to 600V. Dielectric withstanding voltage greater than 2400V.
Mounting: Flange mounting either in front of or behind panel. Watertight version must be front panel mounted. Maximum panel thickness is .75″.
Molded Parts: Black thermoset.
Knob: Screw type, with engraved markings: unfilled characters (**571** 007, **571** 007P), light blue characters (**571** 027, **571** 027P).
Terminals: Brass. Tin-plated. Combination solder/1/4″ Quick-Connect. Side terminal has .125″ diameter hole. Bottom terminal has .156″ × .124″ elongated hole.
Hardware: 571 007 and **571** 027: none; **571** 007P and **571** 027P: two O-rings for watertight seal per MIL-F-19207.

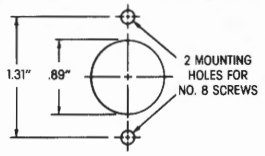
571 000 **Series**



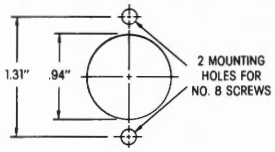




Standard Mounting (Flange in front of panel)



Low Profile Mounting (Flange behind panel)



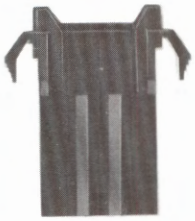
CATALOG NUMBER		
STANDARD	**WATERTIGHT**	**FUSE LENGTH RANGE***
571 027	**571** 027P	1-5/16″ – 1-3/8″
571 007	**571** 007P	1-13/32″ – 1-1/2″

*Fuse diameter is 13/32″.

FUSEHOLDERS
LOW VOLTAGE IN-LINE TYPE

For Autofuse® Fuses

UNASSEMBLED

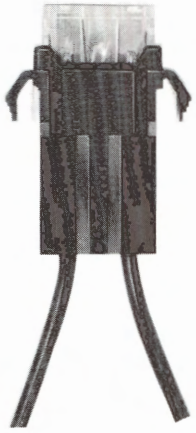




ASSEMBLED WITHOUT FUSE (8″ Wire Loop)



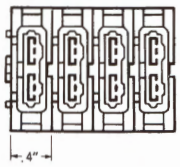
ASSEMBLED WITH ATO® FUSE (8″ Wire Loop)

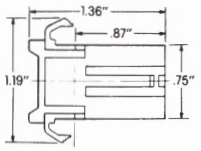


SPECIFICATIONS:
Electrical: Intended for use with 32-volt Autofuse® fuses rated to 20 or 30 amperes depending on wire size and terminal combinations.
Mounting: Capable of snap-mounting to panel from rear. Fuseholders interlock for multiple mounting.
Molded Parts: Black thermoplastic (UL94V2) with 85°C maximum temperature limit.
Terminals: Brass. Tin-plated. Snap-lock into body.
Wire: Stranded with PVC insulation, black #14 AWG for **155** 300 **Series** and orange #10 AWG for **155** 400 **Series.**

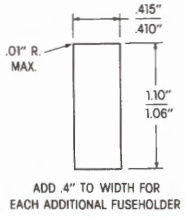
PATENTS: Pending.

Typical Multiple Mounting (fuseholders interlocked)





Recommended Panel Mounting Hole (.040″/.078″ thick panel)



CATALOG NUMBER			FUSE AMPERAGE RATING
UNASSEMBLED	ASSEMBLED WITH 8″ WIRE LOOP, NO FUSE	ASSEMBLED WITH 8″ WIRE LOOP AND FUSE	
155 320U (Terminals designed for #14 AWG stranded wire and marked ''14''.)	**155** 300 (#14 wire/terminals rated to 20A)	**155** 303A	3
		155 304A	4
		155 305A	5
		155 37.5A	7.5
		155 310A	10
		155 315A	15
		155 320A	20
155 430U (Terminals designed for #10 AWG stranded wire and marked ''10''.)	**155** 400 (#10 wire/terminals rated to 30A)	**155** 425A	25
		155 430A	30

FUSEHOLDERS
LOW VOLTAGE IN-LINE TYPE

Twist-Lock Type for 3AG or SFE Fuses

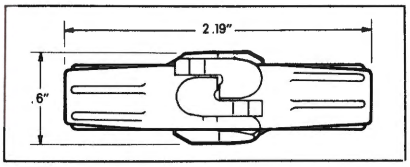
SPECIFICATIONS:
Electrical: Intended for low voltage use with fuses rated up to 20 amperes when proper spring is installed for fuse size.
Molded Parts: Black thermoplastic with 75°C maximum temperature limit. Body halves have a .14″ diameter hole for insulated wire.
Contact Rivet: Brass. Tin-plated. Designed to accommodate #14 AWG stranded wire.

OPTIONS: Fuseholders with other wire sizes or lengths available on special order.

PATENTS: U.S. Patent #3,778,741.

UNASSEMBLED		ASSEMBLED	
CATALOG NUMBER	FOR FUSE SIZE	CATALOG NUMBER	FUSE INSTALLED
155 104U	1/4″×5/8″	**155** 104A	SFE 4
155 106U	1/4″×3/4″	**155** 106A	SFE 6
155 17.5U	1/4″×7/8″	**155** 17.5A	SFE 7-1/2
155 109U	1/4″×7/8″	**155** 109A	SFE 9
155 114U	1/4″×1-1/16″	**155** 114A	SFE 14
155 120U	1/4″×1-1/4″	**155** 120A	SFE 20

UNIVERSAL IN-LINE FUSEHOLDER
155 100: Supplied with an 8″ loop of #14 AWG red vinyl insulated wire and two springs: a long spring for fuses thru SFE9 and short spring for SFE14 and SFE20.



155 100U **Series**
UNASSEMBLED
(For assembly to your #14 AWG wire.)



155 100A **Series**
ASSEMBLED
(Parts assembled with a 19″ loop of #14 AWG red vinyl insulated wire and a fuse as listed in the chart.)



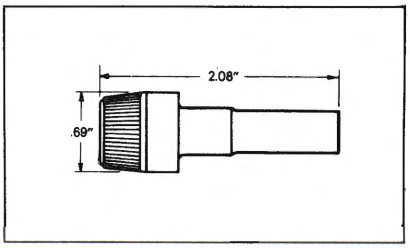
Heavy-Duty Bayonet Knob Type for 3AG or SFE Fuses

SPECIFICATIONS:
Electrical: Intended for low voltage use with fuses rated up to 20 amperes.
Molded Parts: Body and knob are black thermoset with 125°C maximum temperature limit. Both body and knob have a .20″ diameter hole for insulated wire.
Knob: Bayonet-lock type metal insert.
Contact Rivet: Brass. Tin-plated. Designed to accommodate #14 AWG stranded wire.

OPTIONS: Fuseholders with other wire sizes or lengths available on special order.

UNASSEMBLED		ASSEMBLED	
CATALOG NUMBER	FOR FUSE SIZE	CATALOG NUMBER	FUSE INSTALLED
155 004U	1/4″×5/8″	**155** 004A	SFE 4
155 006U	1/4″×3/4″	**155** 006A	SFE 6
155 07.5U	1/4″×7/8″	**155** 07.5A	SFE 7-1/2
155 009U	1/4″×7/8″	**155** 009A	SFE 9
155 014U	1/4″×1-1/16″	**155** 014A	SFE 14
155 020U	1/4″×1-1/4″	**155** 020A	SFE 20

UNIVERSAL IN-LINE FUSEHOLDER
150 145: Supplied with a 15″ loop of #14 AWG red vinyl insulated wire and three springs in different lengths to accommodate the above fuses.
150 079 is similar to **155** 020A except no fuse is supplied. It is intended for use with 3AG fuses rated up to 20 amperes.



155 000U **Series**
UNASSEMBLED
(For assembly to your #14 AWG wire.)



155 000A **Series**
ASSEMBLED
(Parts assembled with a 19″ loop of #14 AWG red vinyl insulated wire and a fuse as listed in the chart.)



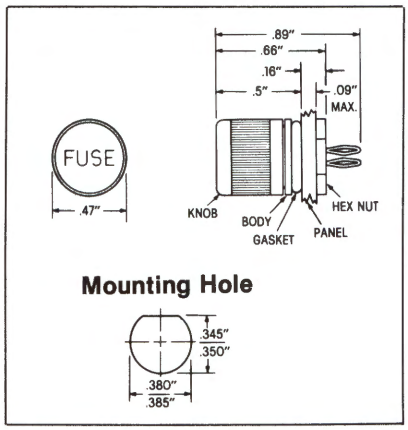
FUSEHOLDERS
MICROFUSE RADIO FREQUENCY SHIELDED TYPE

For Front Panel Mount

282 000 **Series**



SPECIFICATIONS:
Electrical: Rated at 5 amperes for any voltage up to 125 volts.
Mounting: Front panel mount, maximum panel thickness: .093″.
Rear panel mount, maximum panel thickness: .125″.
Molded Parts: Black thermoset.
Housing, Knob and Nut: Aluminum, untreated. Chromate finish for RFI Shielding or anodized finish available on special order.
Terminals: Beryllium copper. Silver-plated.
Mounting Gasket: Neoprene or conductive silicone.
Seal: Neoprene O-ring inside the knob.
Hardware: Hex nut or knurled nut as shown, unassembled.



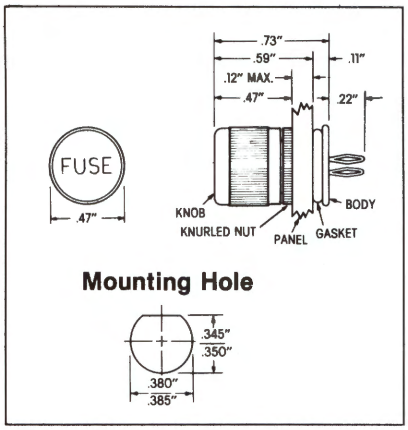
CATALOG NUMBER	
NEOPRENE GASKET	CONDUCTIVE GASKET
282 001	**282** 007

For Rear Panel Mount

282 000 **Series**



SPECIFICATIONS: Same as above.

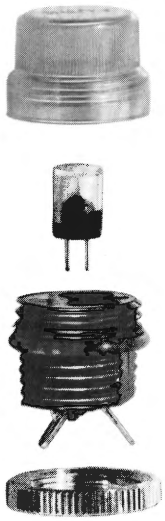


CATALOG NUMBER	
NEOPRENE GASKET	CONDUCTIVE GASKET
282 002	**282** 008

FUSEHOLDERS
MICROFUSE FRONT PANEL MOUNT

Blown Fuse Indicating Type

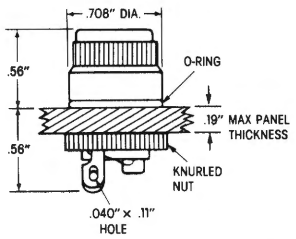
284 000 **Series**

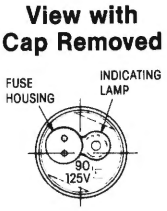


SPECIFICATIONS:
Electrical: Rated at 5 amperes within voltage ranges shown.
NOTE: When designing indicating type holders into a circuit, consideration must be given to the resistance of fractional amperage fuses and the parallel resistance of the indicating lamp and its resistor.
Mounting: Withstands 10 lb.-in. mounting torque; maximum panel thickness is .18″.
Molded Parts: Body: Black thermoset.
Cap: Thermoplastic. Holders with incandescent lamps have amber cap; with neon lamps, clear cap.
Terminals: Brass. Tin-plated. Separation between terminals provided by a barrier in molded body.
O-Ring: Silicone rubber.
Hardware: Aluminum knurled nut, unassembled.

FUSEHOLDERS TO MIL SPEC: See Military Section.

CATALOG NUMBER	RANGE IN VOLTS	TYPE	VOLTS	AMPS.	KNOB COLOR
284 004	2-1/2 to 7	Incandescent	6	0.20	Amber
284 005	7 to 16	Incandescent	14	0.08	Amber
284 006	16 to 32	Incandescent	28	0.04	Amber
284 003	100 to 125	Neon	—	0.002	Clear







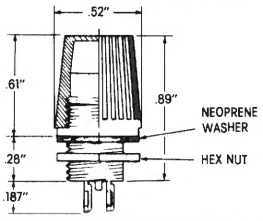
Subminiature Type

281 006



Fuseholder will accept Littelfuse Microfuses with .025″ diameter pins on .100″ centers and will also accept .040″ diameter pins on .150″ centers.

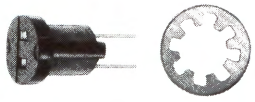
SPECIFICATIONS:
Electrical: Rated at 5 amperes for any voltage up to 125 volts.
Mounting: Maximum panel thickness is .12″
Molded Parts: Black thermoset.
Terminals: Brass. Tin-plated.
Hardware: Neoprene washer and hex nut, unassembled. On special order, fuseholders can be supplied with a sealing washer between the knob and body to prevent entry of moisture.



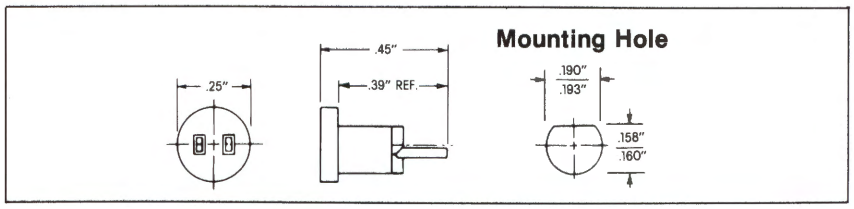


Microfuse Chassis Mount Type

281 001



SPECIFICATIONS:
Electrical: Rated at 5 amperes for any voltage up to 125 volts.
Mounting: Maximum panel thickness is .09".
Molded Parts: Black thermoset.
Terminals: Beryllium copper. Silver-plated.
Hardware: Spring nut.



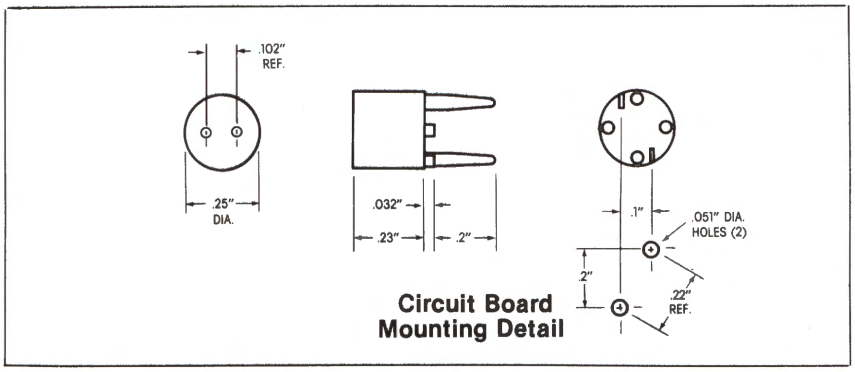
Microfuse/PICO II™ P.C. Board Mount Type

Fuseholder will accept Littelfuse Microfuses and PICO II™ fuses with .025" leads.

SPECIFICATIONS:
Electrical: Rated at 5 amperes for any voltage up to 125 volts.
Molded Parts: White thermoplastic; for continuous duty at 100°C.
Terminals: Brass. Silver-plated.

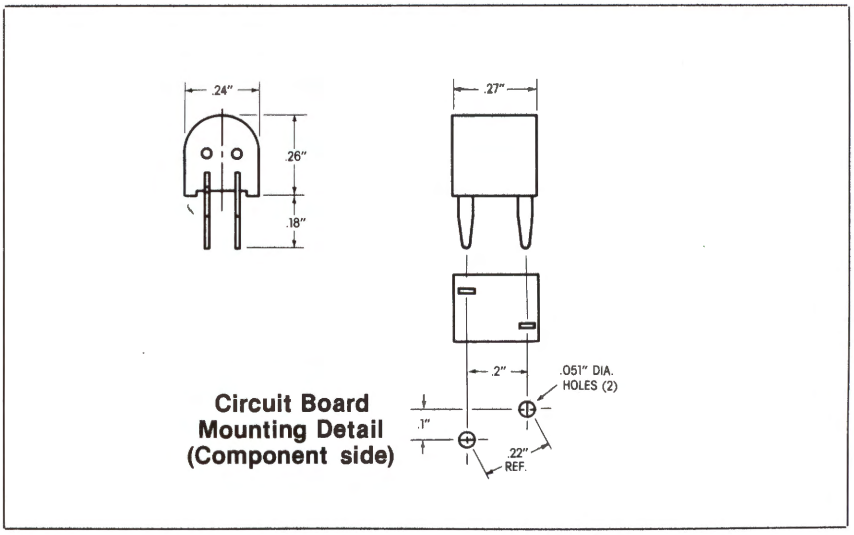
281 005
For vertical mounting.





281 007
For horizontal mounting.

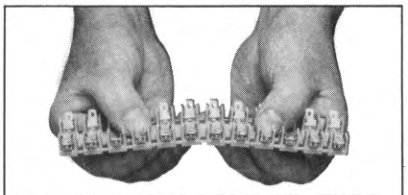




FUSE BLOCKS
OMNI-BLOK™ MOLDED BASE TYPE

For 3AG Fuses

FEATURES:
1. Allows operation at higher current levels than previous designs (up to 30A).
2. Individual pole barriers for greater protection against clip damage and electrical shock while maintaining low overall height.
3. Minimum dielectric of 1500 volts RMS.
4. Twelve pole units may be broken apart to obtain desired number of poles (see photo at right).


BREAK-AWAY POLE FEATURE

APPROVALS: Recognized under the Components Program of Underwriters Laboratories and Certified by CSA up to 300V and at current ratings shown in chart below.

SERIES	CURRENT RATING U.L.	CSA
354 000	30A	30A
354 600	20A	20A
354 800	30A	25A

SPECIFICATIONS:
Clip/Terminals: Tin-plated, spring brass.
Base: Polyester, glass reinforced. (Gray except Anti-Rotation series which is black.) UL 94VO flammability rating.

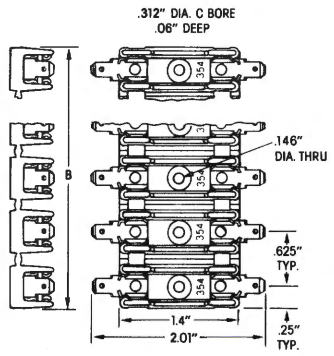
ELECTRICAL SPECIFICATIONS:

SERIES OR CATALOG NUMBER	TERMINALS	RATING
354 000	Solder	30A, 300V*
354 600	3/16" Q.C.	20A, 300V
354 800	1/4" Q.C.	30A, 300V
354 101-GY	P.C. Board	15A, 300V

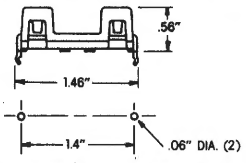
*30 amp capability is based on temperature rise with #10 GA wire properly soldered.

OPTIONS: 1. Colors are available on special order. To order, drop GY from standard part number and replace with appropriate suffix:
BL(Black) WH(White) BU(Blue)
GN(Green) YL(Yellow) RD(Red)
2. Two different style clips can be supplied for circuit identity or to polarize. (Contact factory.)

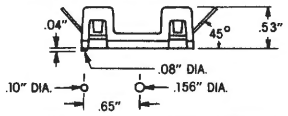
PATENTS: Pending.



P.C. Board Type
(Single pole units only)

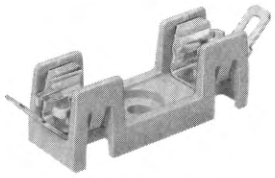


Anti-Rotation Boss
(Single pole units only)

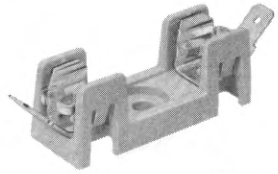


SOLDER TYPE TERMINALS	CATALOG NUMBER 3/16" Q.C. TERMINALS	1/4" Q.C. TERMINALS	NUMBER OF POLES	DIMENSION "B"
354 001-GY	**354** 601-GY	**354** 801-GY	1	.50"
354 002-GY	**354** 602-GY	**354** 802-GY	2	1.12"
354 003-GY	**354** 603-GY	**354** 803-GY	3	1.75"
354 004-GY	**354** 604-GY	**354** 804-GY	4	2.38"
354 005-GY	**354** 605-GY	**354** 805-GY	5	3.00"
354 006-GY	**354** 606-GY	**354** 806-GY	6	3.63"
354 007-GY	**354** 607-GY	**354** 807-GY	7	4.25"
354 008-GY	**354** 608-GY	**354** 808-GY	8	4.88"
354 009-GY	**354** 609-GY	**354** 809-GY	9	5.50"
354 010-GY	**354** 610-GY	**354** 810-GY	10	6.13"
354 011-GY	**354** 611-GY	**354** 811-GY	11	6.75"
354 012-GY	**354** 612-GY	**354** 812-GY	12	7.38"

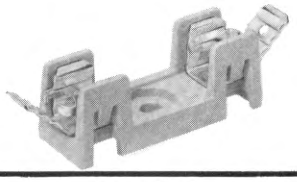
354 000 **Series**
Solder Terminals



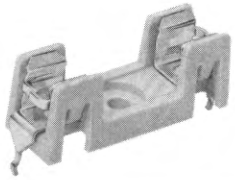
354 600 **Series**
3/16" Q.C. Terminals



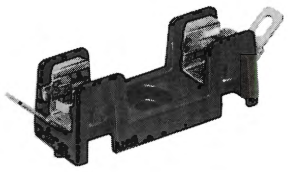
354 800 **Series**
1/4" Q.C. Terminals



354 101-GY
P.C. Board Terminals



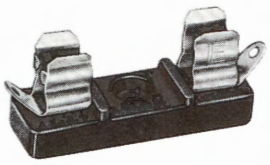
ANTI-ROTATION BOSS
354 021-BL (Solder-type terminals)
354 621-BL (3/16" Q.C. terminals)
354 821-BL (1/4" Q.C. terminals)

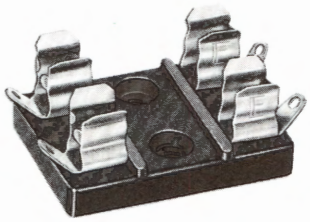


FUSE BLOCKS
MOLDED BASE TYPE

With Solder Terminals for 3AG Fuses

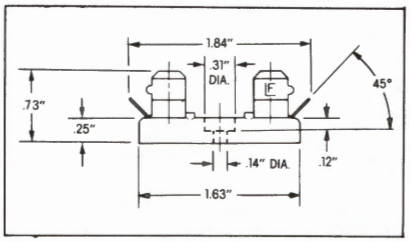
357 000 **Series**
350 200 **Series**





SPECIFICATIONS:
Electrical: Rated for currents up to 15 amperes (units with spring brass clips) or 30 amperes (beryllium copper clips).
Clip/Terminal: One-piece clip/solder type terminal with elongated hole .09″ × .16″. Tin-plated spring brass (**357** 001, **357** 002) or silver-plated beryllium copper (**350** 221, **350** 284).
Base: Black thermoset with UL 94VO flammability rating.

APPROVALS: Catalog Numbers **357** 001 and **357** 002 are Recognized under the Components Program of Underwriters Laboratories.

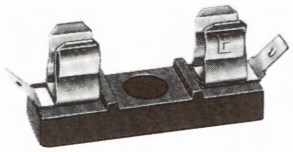


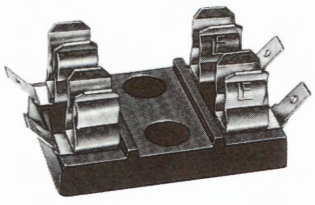
CATALOG NUMBER		NUMBER OF POLES	WIDTH
SPRING BRASS	BERYLLIUM COPPER		
357 001	**350** 221	1	0.50''
357 002	**350** 284	2	1.25''(2 mounting holes on 0.625″ centers)

NOTE: For 3-12 pole fuse blocks with tin-plated spring brass terminals, see LAMINATED BASE FUSE BLOCKS.

With Quick-Connect Terminals for 3AG Fuses

350 300 **Series**

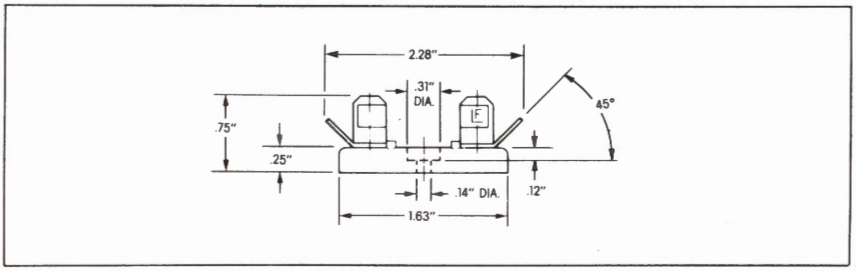




SPECIFICATIONS:
Electrical: Rated for currents up to 15 amperes.
Clips: Nickel-plated spring brass. Ear type.
Terminals: Plated brass.
Base: Black thermoset with UL 94VO flammability rating.

APPROVALS: Recognized under the Components Program of Underwriters Laboratories.

CATALOG NUMBER		NUMBER OF POLES	WIDTH
1/4″ TERMINAL	3/16″ TERMINAL		
350 329	**350** 327	1	0.50″
350 330	**350** 328	2	1.25″ (2 mounting holes on 0.625″ centers)

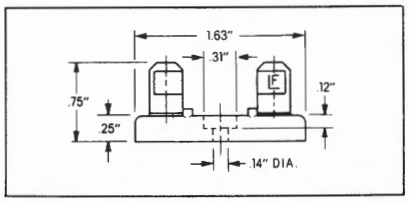


FUSE BLOCKS
MOLDED BASE TYPE — SPECIAL

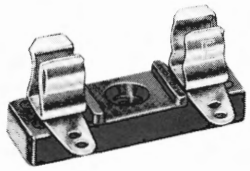
With Solder Terminals for 3AG Fuses

350 218

SPECIFICATIONS:
Electrical: Rated for currents up to 15 amperes.
Clips: Nickel-plated spring brass. Ear type.
Terminals: Tin-plated copper alloy. Solder type.
Base: Black thermoset with UL 94VO flammability rating.



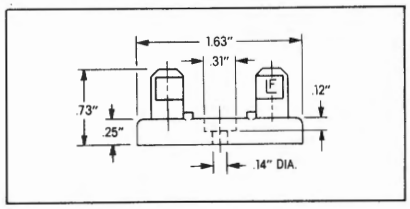
CATALOG NUMBER	WIDTH	
	BASE	OVERALL
350 218	0.50″	0.81″



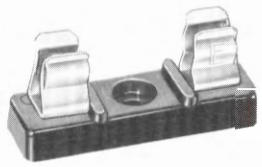
Spare Fuseholder for 3AG Fuses

350 244

SPECIFICATIONS:
Clips: Nickel-plated spring brass. Ear type.
Base: Black thermoset with UL 94VO flammability rating.



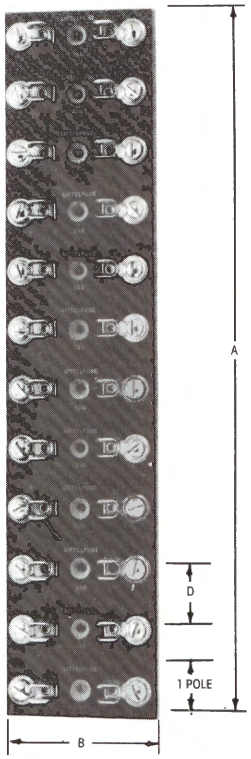
CATALOG NUMBER	WIDTH
350 244	0.50″



FUSE BLOCKS
LAMINATED BASE TYPE

With Screw Terminals for 3AG or 5AG Fuses

356 000 **Series**
359 000 **Series**
556 000 **Series**



C = Board Thickness E = Overall Height

SPECIFICATIONS:
Electrical: Rated for currents up to 15 amperes (units with spring brass clips) or up to 30 amperes (beryllium copper clips).
Clips: 356 000 **Series:** Nickel-plated spring brass.
359 000 **Series:** Silver-plated beryllium copper.
556 000 **Series:** Silver-plated beryllium copper.
Terminals: 8-32THD screw type.
Base: Black phenolic laminate with UL 94VO flammability rating.
Mounting Hole: 3AG Blocks: .142″/.147″ diameter with .295″/.302″ × 82° C.S.
5AG Blocks: .171″/.176″ diameter with .342″/.349″ × 82° C.S.

APPROVALS: 356 000 **Series** (250V) and **556** 000 **Series** (600V) are Recognized under the Components Program of Underwriters Laboratories.

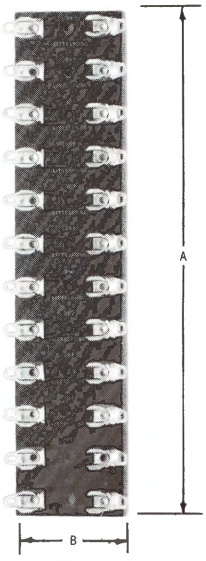
DIMENSIONS:

FUSE TYPE	A	B	C	D	E
3AG	See	2.38″	.25″	.91″	.69″
5AG	Chart Below	2.75″	.28″	.97″	1.03″

NO. OF POLES	FOR 3AG FUSES: DIMENSION "A"	FOR 3AG FUSES: CATALOG NUMBER		FOR 5AG FUSES: DIMENSION "A"	FOR 5AG FUSES: CATALOG NUMBER
1	.78″	**356** 001	**359** 001	.84″	**556** 001
2	1.69″	**356** 002	**359** 002	1.81″	**556** 002
3	2.59″	**356** 003	**359** 003	2.78″	**556** 003
4	3.5″	**356** 004	**359** 004	3.75″	**556** 004
5	4.41″	**356** 005	**359** 005	4.72″	**556** 005
6	5.31″	**356** 006	**359** 006	5.69″	**556** 006
7	7.22″	**356** 007	**359** 007	6.66″	**556** 007
8	7.12″	**356** 008	**359** 008	7.63″	**556** 008
9	8.03″	**356** 009	**359** 009	8.59″	**556** 009
10	8.94″	**356** 010	**359** 010	9.56″	**556** 010
11	9.84″	**356** 011	**359** 011	10.53″	**556** 011
12	10.75″	**356** 012	**359** 012	11.5″	**556** 012

With Solder Terminals for 3AG or 8AG Fuses

357 000 **Series**
387 000 **Series**



C = Board Thickness E = Overall Height

SPECIFICATIONS:
Electrical: Rated for currents up to 15 amperes.
Clip/Terminal: One-piece clip/solder type terminal with elongated hole .09″ × .16″. Tin-plated spring brass.
Base: Black phenolic laminate with UL 94VO flammability rating.
Mounting Hole: .142″/.147″ diameter.

DIMENSIONS:

FUSE TYPE	A	B	C	D	E
8AG	See	1.38″	.19″	.63″	.66″
3AG	Chart Below	1.63″	.19″	.63″	.66″

NO. OF POLES	DIMENSION "A"	CATALOG NUMBER: FOR 3AG FUSES	CATALOG NUMBER: FOR 8AG FUSES
1	.5″	*	**387** 001
2	1.12″	*	**387** 002
3	1.75″	**357** 003	
4	2.38″	**357** 004	
5	3″	**357** 005	
6	3.63″	**357** 006	
7	4.25″	**357** 007	
8	4.88″	**357** 008	
9	5.5″	**357** 009	
10	6.13″	**357** 010	
11	6.75″	**357** 011	
12	7.38″	**357** 012	

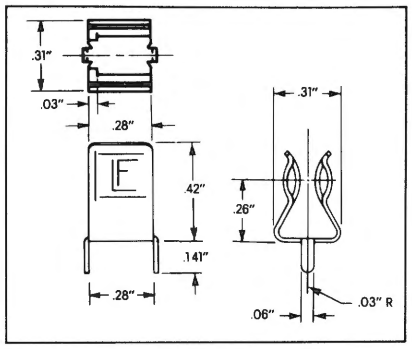
*For 1 and 2 pole fuse blocks, See **357** 001 and **357** 002 molded base fuse blocks.

FUSE CLIPS
P.C. BOARD TYPE

For 1/4" Diameter Fuses

CATALOG NUMBER	CLIP MATERIAL	FINISH	STYLE
102 071	Spring Brass	Tin-plated	Ear
102 074	Spring Brass	Tin-plated	Earless
102 075	Spring Brass	Hot Tin	Earless
102 076	Spring Brass	Hot Tin	Ear
122 083	Beryllium Copper	Silver-plated	Ear
122 087	Beryllium Copper	Silver-plated	Earless
122 088	Beryllium Copper	Tin-plated	Ear
122 093	Beryllium Copper	Tin-plated	Earless

NOTE: Spring brass clips are suitable for current levels up to 15 amperes; beryllium copper clips up to 30 amperes.

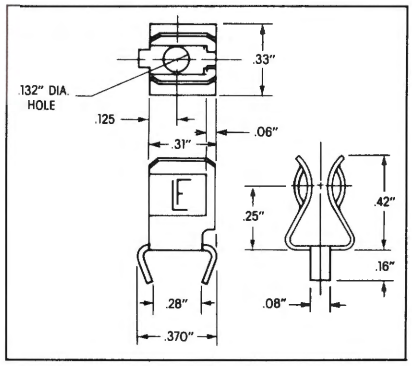




Bowed Tab Type for 1/4" Diameter Fuses

CATALOG NUMBER	CLIP MATERIAL	FINISH	STYLE
102 078	Spring Brass	Tin-plated	Earless
102 079	Spring Brass	Tin-plated	Ear

NOTE: Spring brass clips are suitable for current levels up to 15 amperes.

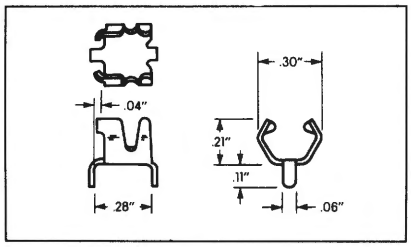




Low Profile Type for 1/4" Diameter Fuses

CATALOG NUMBER	CLIP MATERIAL	FINISH	STYLE
102 080	Spring Brass	Tin-plated	Low Profile
122 090	Beryllium Copper	Silver-plated	Low Profile

NOTE: Spring brass clips are suitable for current levels up to 15 amperes; beryllium copper clips up to 30 amperes.

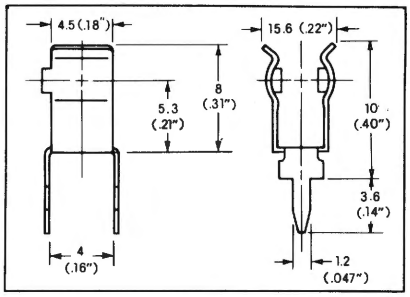




For 5mm Diameter Fuses

CATALOG NUMBER	CLIP MATERIAL	FINISH	STYLE
100 054	Spring Brass	Silver-plated	Ear
100 056	Spring Brass	Tin-plated	Ear

NOTE: Spring brass clips are suitable for current levels up to 10 amperes.

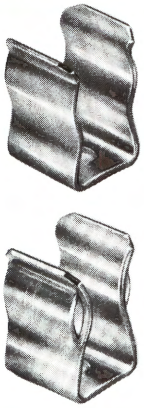




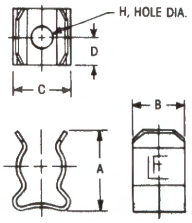
NOTE: Metric dimensions are shown. Inch dimensions are in parentheses.

FUSE CLIPS
RIVET/EYELET MOUNT

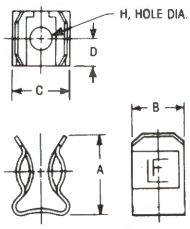
For 1/4″ — 13/16″ Diameter Fuses



Earless Clip (without fuse stops)



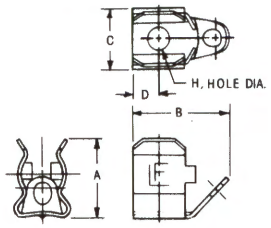
Ear Clip (with fuse stops)



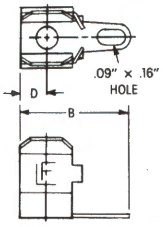
Combination Clip/Solder Type Terminals



45° Angle Type



Straight Type



STYLE	FUSE TYPE	CATALOG NUMBER SPRING BRASS NICKEL-PLATED	CATALOG NUMBER BERYLLIUM COPPER SILVER-PLATED	FUSE DIAMETER	A	B	C	D	H DIAMETER
Ear	3AG	**101** 001	**121** 001	1/4	.48	.31	.30	.16	.131
	5AG & Midget	**105** 001	**125** 001	13/32	.75	.44	.52	.22	.196
	NEC 1—30 amp	**107** 001	**127** 001	9/16	.94	.59	.65	.25	.203
	NEC 30—60 amp	**109** 001	**129** 001	13/16	1.31	.75	.87	.30	.265
Earless	3AG	**101** 002	**121** 002	1/4	.48	.31	.30	.16	.131
	5AG & Midget	**105** 002	**125** 002	13/32	.75	.44	.52	.22	.196
	NEC 1—30 amp	**107** 002	**127** 002	9/16	.94	.59	.65	.25	.203
	NEC 30—60 amp	**109** 002	**129** 002	13/16	1.31	.75	.87	.30	.265
Solder Lug 45°	3AG	**101** 003*	**121** 004	1/4	.47	.56	.31	.16	.131
Solder Lug Straight	3AG	**102** 064*	**122** 081	1/4	.47	.64	.31	.16	.131

*Tin-plated.

CIRCUIT BREAKERS
125 VOLT TYPE

Designed for use in television receivers, audio amplifiers, business machines, vending machines and other similar equipment, these manual reset circuit breakers provide overload protection and are ambient temperature compensating. A "trip-free" feature prevents the contacts from being held closed manually when an overload exists. The steel cover is fully insulated from all current carrying parts of the circuit breaker.

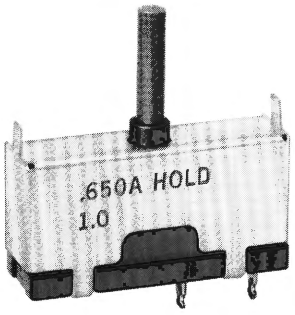
SPECIFICATIONS:
Molded Parts: UL 94VO Flammability Rating.
Termination: Solder type. Solder-coated brass.

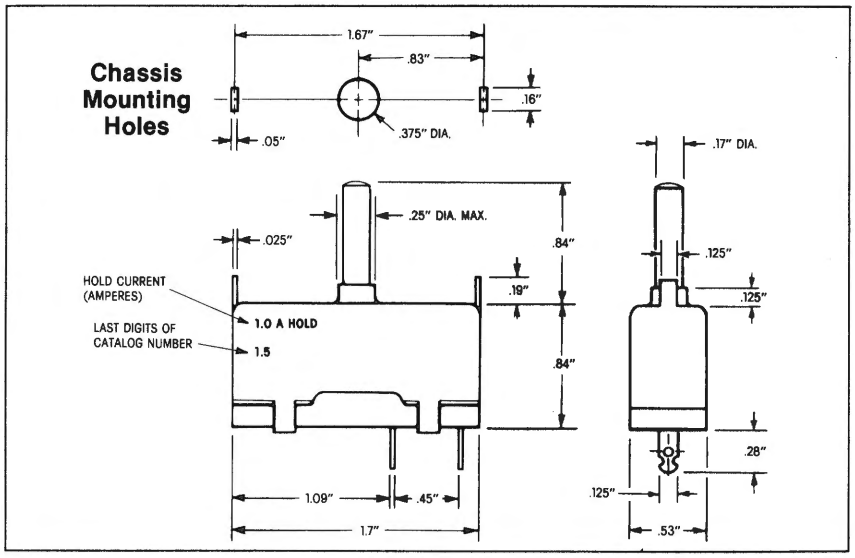
APPROVALS: Recognized under the Components Program of Underwriters Laboratories. Units with hold currents of 1.2 amperes and above are Certified by CSA.

ELECTRICAL SPECIFICATIONS:

RATED CURRENT	REQUIREMENTS
100%	Must carry.
175%	Must trip within 2 minutes.
101%-174%	May trip.

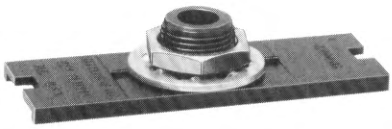
815 000 **Series**





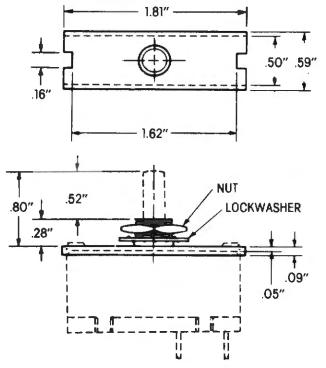
815 000P **ADAPTER PLATE**

One-piece molded plate with hex nut and lock washer attaches easily to circuit breaker, permitting a wider range of applications.



CATALOG NUMBER	HOLD CURRENT (AMPERES)	TRIP CURRENT (AMPERES)	MAXIMUM SHORT CIRCUIT CURRENT (AMPERES)
815 .650	0.49	0.86	6.0
815 .800	0.60	1.05	6.0
815 001	0.65	1.14	15.0
815 1.25	0.93	1.63	15.0
815 01.5	1.00	1.75	15.0
815 1.75	1.20	2.10	35.0
815 002	1.40	2.45	35.0
815 2.25	1.50	2.62	50.0
815 02.5	1.65	2.89	50.0
815 02.7	1.80	3.15	50.0
815 2.75	1.92	3.33	50.0
815 003	2.10	3.67	50.0
815 3.25	2.20	3.85	50.0
815 03.5	2.30	4.03	50.0
815 3.75	2.40	4.20	50.0
815 004	2.50	4.37	50.0
815 04.5	3.00	5.25	50.0
815 005	3.25	5.68	50.0
815 006	3.90	6.82	50.0
815 007	4.14	7.25	50.0

ADAPTER PLATE



Mounting Hole



CIRCUIT BREAKERS
12 AND 24 VOLT TYPE

812 000 **Series**



813 000 **Series**



814 000 **Series**



Designed to give overload protection in automotive and electronic equipment, these breakers have heavy duty contacts and a snap-action bi-metal blade that provides quick action on contact make and break.

***Automatic reset breakers** provide protection in applications where it is not possible to manually reset a breaker. Upon an overload, the breaker will begin to cycle, alternately opening and closing the circuit until the fault is removed.*

***Manual reset breakers** are similar to the auto reset type, except upon an overload the breaker will open and remain open until the reset button is depressed.*

ELECTRICAL SPECIFICATIONS:

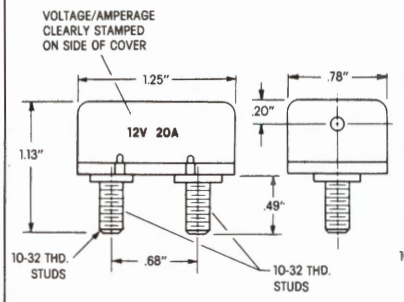
RATED CURRENT	REQUIREMENT
100%	Must carry (at 77°F).
125%	Must open within 60 minutes.
200%	All series must open within 30 seconds. The **812** and **813 Series** must reclose within 10 seconds.

VOLTAGE:
812/813 Series: Up to 12VDC.
814 Series: Up to 24VDC.

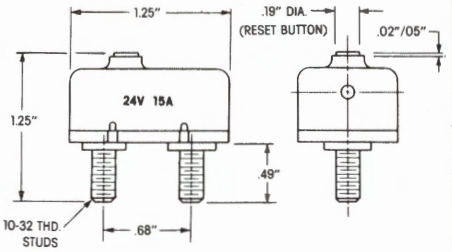
STANDARDS: SAE J553.

CATALOG NUMBER			RATED HOLD CURRENT (AMPERES)
AUTOMATIC RESET		MANUAL RESET	
WITHOUT BRACKET	WITH BRACKET		
812 005	**813** 005		5
812 006	**813** 006		6
812 008	**813** 008		8
812 010	**813** 010	**814** 010	10
812 012	**813** 012	**814** 012	12
812 015	**813** 015	**814** 015	15
812 018	**813** 018		18
812 020	**813** 020	**814** 020	20
812 025	**813** 025	**814** 025	25
812 030	**813** 030	**814** 030	30
812 035	**813** 035		35
812 040	**813** 040	**814** 040	40
812 045	**813** 045		45
812 050	**813** 050	**814** 050	50

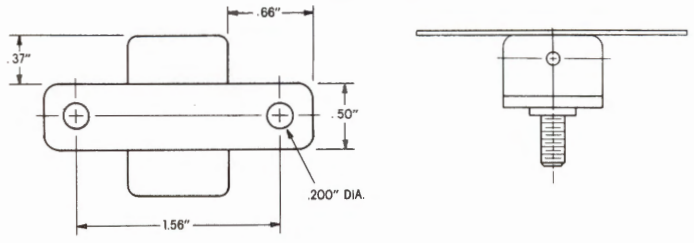
812/813 000 **Series**
Automatic Reset



814 000 **Series**
Manual Reset



813 000 **Series**
Mounting Bracket

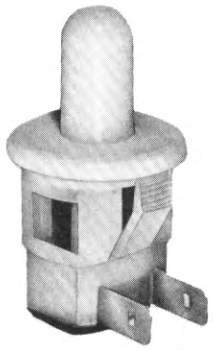


SWITCHES
SPST MOMENTARY ACTION

Plunger Type

Originally developed as a refrigerator door switch to control lights and fan circuits, these switches may also be used in other applications that require long life, water-proofing and snap-mounting.

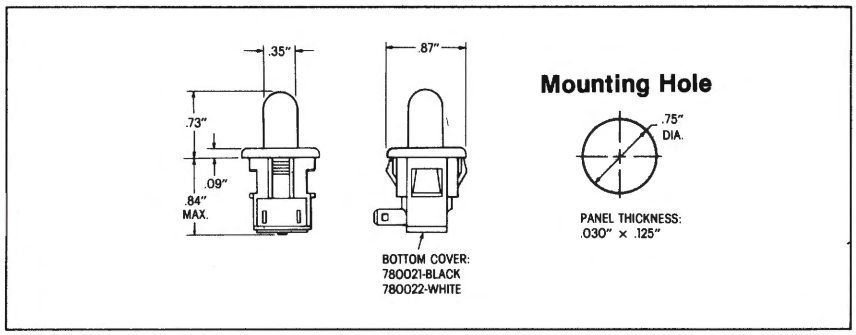
780 000 **Series**



SPECIFICATIONS:
Electrical: Rated at 5 amperes, 125 VAC. Rated at 2.5 amperes, 250 VAC.
Dielectric Strength: Exceeds 1500 volts.
Minimum Life: 500,000 operations with 80 watt lamload.
Molded Parts: Appliance white, thermoplastic.
Terminals: Brass.
Contacts: Silver.
Mounting: Snaps into panel, no hardware required.

APPROVALS: Listed by Underwriters Laboratories. Certified by CSA. Meets waterproof requirements of UL standard 250 for appliances.

CATALOG NUMBER	
NORMALLY OPEN	NORMALLY CLOSED
780 021	**780** 022



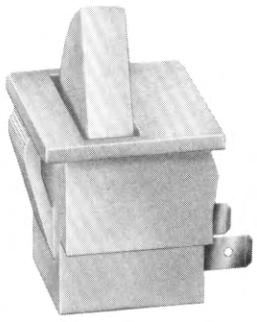
Rocker Type

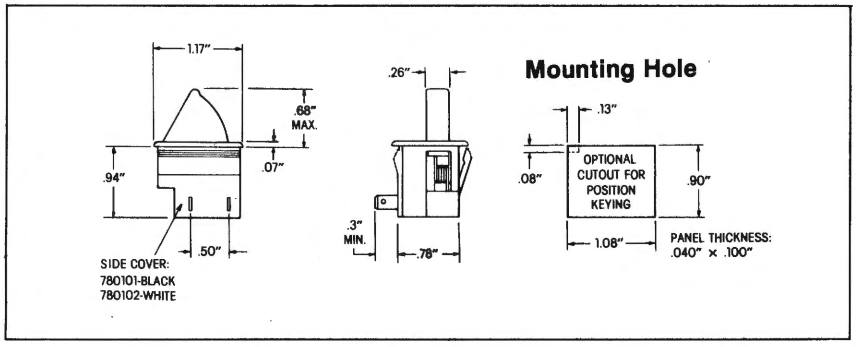
SPECIFICATIONS: Same as above.

APPROVALS: Same as above.

780 100 **Series**

CATALOG NUMBER	
NORMALLY OPEN	NORMALLY CLOSED
780 101	**780** 102





INDICATOR LIGHTS
SELECTOR GUIDE

900 Series Cartridge Lamps



910/911 Series Cartridge Lampholders



920 Series Subminiature



921 Series Subminiature



922/923/924 Series Subminiature



925/926/927 Series Subminiature



960 Series — Rectangular Snap-Mount Plastic



970 Series — 5/16″ Diameter Snap-Mount Plastic



980 Series — 1/2″ Diameter Snap-Mount Plastic



930 Series Miniature Lampholders



LITTELITES	CARTRIDGE LAMPS AND HOLDERS					SUBMINIATURE LAMPHOLDERS								MINIATURE LAMP-HOLDERS	SNAP-MOUNT PLASTIC LIGHTS		
	CARTRIDGE LAMPS		CARTRIDGE LAMPHOLDERS		SOCKETS												
	900 Series	901 Series	910 Series*	911 Series**	910 000___	920 Series	921 Series	922 Series	923 Series	924 Series	925 Series	926 Series	927 Series	930 Series	960 Series (Rectangular)	970 Series (5/16″ Dia.)	980 Series (1/2″ Dia.)
MOUNTINGS																	
Front Mount						X	X	X	X	X			X	X	X	X	X
Rear Mount			X	X						X	X	X					
Mounting Hole Size			3/8″	3/8″		15/32″	15/32″	15/32″	17/32″	15/32″	3/8″	3/8″	15/32″	11/16″	1.281″x.395″	.312″/.318″	.500″x.510″
Maximum Panel Thickness			3/8″	3/8″		3/16″	7/16″	1/4″	1/4″	1/4″	1/8″	3/16″	5/16″	3/8″	.090″	.090 w/bez .125 w/o bez	.090 w/bez .125 w/o bez
TERMINATIONS																	
Solder Lug			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Solder Cup			X	X	X												
Screw Type														X			
Turret Pin			X	X	X												
6″ Wire Leads															X	X	X
1/8″ Q.C.																X	
3/16″ Q.C.															X		X
1/4″ Q.C.															X		
.040 Stain. Bi-Pin	X	X															
.040 Tin Bi-Pin	X	X															
OPTIONS																	
D-Hole Mounting			X	X										X			
Drip-Proofing											X	X	X	X			
LAMPS																	
Incandescent	X					X		X	X	X	X	X	X	X	X	X	X
Standard Neon	X	X					X				X	X	X	X	X	X	X
Green Neon		X													X	X	X
Blue Neon		X													X	X	X
Red LED	X															X	
Green LED	X															X	
Yellow LED	X															X	
Lamps Included	X	X	NA	NA	NA										X	X	X
UL																	
Listed														X	X	X	X
Recognized	X	X	X	X		X	X	X	X	X	X	X	X		X	X	X
CSA Approved	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X

*Mate with **900 Series** Cartridge Lamps.
Mate with **901 Series Cartridge Lamps.

The indicator lights shown on the following pages represent our most popular units. Please contact us for a copy of our full-line Littelites® catalog.

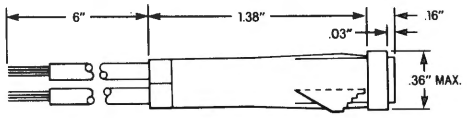
INDICATOR LIGHTS
SNAP-MOUNT PLASTIC LITES

SPECIFICATIONS:
Body Material: White Nylon.
Termination: #18 black stranded wire or brass Q.C. terminals.
Hardware: None Required.

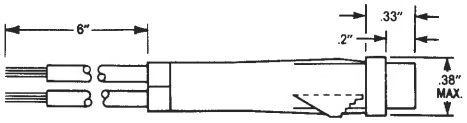
For catalog numbers, see next page.

APPROVALS: Snap-Mount Lites with wire leads are Listed by Underwriters Laboratories. Snap-Mount Lites with Q.C. terminals are Recognized under the Components Program of Underwriters Laboratories. All Snap-Mount Lites are Certified by CSA.

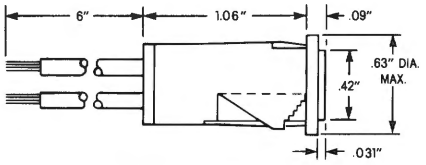
FLAT CYLINDRICAL LENS



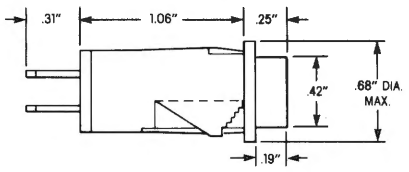
SHORT CYLINDRICAL LENS



FLAT CYLINDRICAL LENS



SHORT CYLINDRICAL LENS

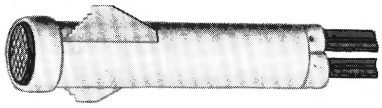


Recommended Mounting Holes



970/971 Series **980/981 Series**

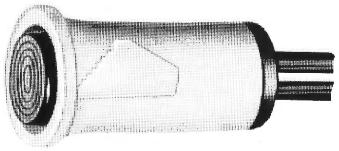
970 000 **Series**



971 000 **Series**



980 000 **Series**



981 000 **Series**



For other variations of Littelfuse Littelites® refer to the Selector Guide in this catalog or write for our complete Littelites® Catalog.

INDICATOR LIGHTS
SNAP-MOUNT PLASTIC LITES

CATALOG NUMBER	BODY DIAMETER	BEZEL	TERMINATION	LAMP TYPE	LENS TYPE	NON-DIFFUSING LENS COLOR
970 603X92WAN	5/16″	None	6″ Wire Leads	14V Incandescent	Flat Cylindrical	Amber
970 603X92WGN	5/16″	None	6″ Wire Leads	14V Incandescent	Flat Cylindrical	Green
970 603X92WRN	5/16″	None	6″ Wire Leads	14V Incandescent	Flat Cylindrical	Red
970 604X92WAN	5/16″	None	6″ Wire Leads	28V Incandescent	Flat Cylindrical	Amber
970 604X92WGN	5/16″	None	6″ Wire Leads	28V Incandescent	Flat Cylindrical	Green
970 604X92WRN	5/16″	None	6″ Wire Leads	28V Incandescent	Flat Cylindrical	Red
970 670A92WAN	5/16″	None	6″ Wire Leads	125V AC Neon	Flat Cylindrical	Amber
970 670A92WRN	5/16″	None	6″ Wire Leads	125V AC Neon	Flat Cylindrical	Red
971 603X03WAN	5/16″	Chrome-Plated	6″ Wire Leads	14V Incandescent	Short Cylindrical	Amber
971 603X03WGN	5/16″	Chrome-Plated	6″ Wire Leads	14V Incandescent	Short Cylindrical	Green
971 603X03WRN	5/16″	Chrome-Plated	6″ Wire Leads	14V Incandescent	Short Cylindrical	Red
971 604X03WAN	5/16″	Chrome-Plated	6″ Wire Leads	28V Incandescent	Short Cylindrical	Amber
971 604X03WGN	5/16″	Chrome-Plated	6″ Wire Leads	28V Incandescent	Short Cylindrical	Green
971 604X03WRN	5/16″	Chrome-Plated	6″ Wire Leads	28V Incandescent	Short Cylindrical	Red
971 670A03WAN	5/16″	Chrome-Plated	6″ Wire Leads	125V AC Neon	Short Cylindrical	Amber
971 670A03WRN	5/16″	Chrome-Plated	6″ Wire Leads	125V AC Neon	Short Cylindrical	Red
980 604X95WAN	1/2″	None	6″ Wire Leads	28V Incandescent	Flat Cylindrical	Amber
980 604X95WGN	1/2″	None	6″ Wire Leads	28V Incandescent	Flat Cylindrical	Green
980 604X95WRN	1/2″	None	6″ Wire Leads	28V Incandescent	Flat Cylindrical	Red
980 704X95WAN	1/2″	None	.187 Q.C.	28V Incandescent	Flat Cylindrical	Amber
980 704X95WGN	1/2″	None	.187 Q.C.	28V Incandescent	Flat Cylindrical	Green
980 704X95WRN	1/2″	None	.187 Q.C.	28V Incandescent	Flat Cylindrical	Red
980 670A95WAN	1/2″	None	6″ Wire Leads	125V AC Neon	Flat Cylindrical	Amber
980 670A95WRN	1/2″	None	6″ Wire Leads	125V AC Neon	Flat Cylindrical	Red
980 770A95WAN	1/2″	None	.187 Q.C.	125V AC Neon	Flat Cylindrical	Amber
980 770A95WRN	1/2″	None	.187 Q.C.	125V AC Neon	Flat Cylindrical	Red
981 604X96WAN	1/2″	Chrome-Plated	6″ Wire Leads	28V Incandescent	Short Cylindrical	Amber
981 604X96WGN	1/2″	Chrome-Plated	6″ Wire Leads	28V Incandescent	Short Cylindrical	Green
981 604X96WRN	1/2″	Chrome-Plated	6″ Wire Leads	28V Incandescent	Short Cylindrical	Red
981 704X96WAN	1/2″	Chrome-Plated	.187 Q.C.	28V Incandescent	Short Cylindrical	Amber
981 704X96WGN	1/2″	Chrome-Plated	.187 Q.C.	28V Incandescent	Short Cylindrical	Green
981 704X96WRN	1/2″	Chrome-Plated	.187 Q.C.	28V Incandescent	Short Cylindrical	Red
981 670A96WAN	1/2″	Chrome-Plated	6″ Wire Leads	125V AC Neon	Short Cylindrical	Amber
981 670A96WRN	1/2″	Chrome-Plated	6″ Wire Leads	125V AC Neon	Short Cylindrical	Red
981 770A96WAN	1/2″	Chrome-Plated	.187 Q.C.	125V AC Neon	Short Cylindrical	Amber
981 770A96WRN	1/2″	Chrome-Plated	.187 Q.C.	125V AC Neon	Short Cylindrical	Red

For other variations of Littelfuse Littelites® refer to the Selector Guide in this catalog or write for our complete Littelites® Catalog.

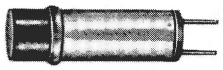
INDICATOR LIGHTS
CARTRIDGE LAMPS/LAMPHOLDERS

Cartridge Lamps

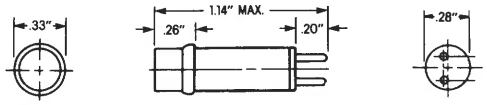
SPECIFICATIONS:
Body Material: Aluminum.
Termination: .040" Stainless steel pins.

APPROVALS: Recognized under the Components Program of Underwriters Laboratories. Certified by CSA.

900 000 **Series**



CATALOG NUMBER	LAMP TYPE	LAMP VOLTAGE	BUILT-IN RESISTOR	NON-DIFFUSING LENS COLOR
900 103X082RN	Incandescent	14V	None	Red
900 103X082GN	Incandescent	14V	None	Green
900 104X082RN	Incandescent	28V	None	Red
900 104X082GN	Incandescent	28V	None	Green
900 152E032AN	Neon	125V	100K	Amber
900 152E032RN	Neon	125V	100K	Red
900 153S032AN	Neon (High Brightness)	125V AC	33K	Amber
900 153S032RN	Neon (High Brightness)	125V AC	33K	Red

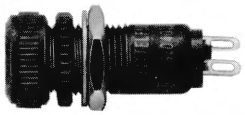


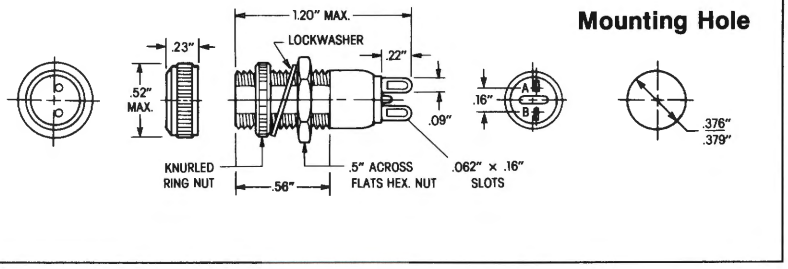
Cartridge Lampholders

SPECIFICATIONS:
Body Material: Aluminum.
Termination: Solder lug type. Beryllium copper, tin-plated.
Hardware: Knurled ring nut, lockwasher, hex nut (unassembled).

APPROVALS: Recognized under the Components Program of Underwriters Laboratories. Certified by CSA.

910 000 **Series**





PART NUMBER	FINISH	TERMINATION	COLLAR TYPE
910 401X231XX	Black Anodize	Solder Lug	Short

For other variations of Littelfuse Littelites® refer to the Selector Guide in this catalog or write for our complete Littelites® Catalog.

920 401X



310 Lens



924 404X



410 Lens



925 401X



510 Lens



SPECIFICATIONS:

Body Material: Aluminum with a black anodized finish (**920** 401X, **925** 401X).
Brass with a black nickel finish (**924** 404X).

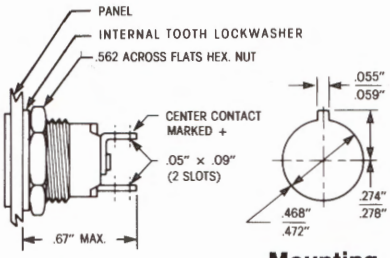
Termination: Tin-plated brass.

Hardware: Lockwasher and hex nut (**920** 401X, **924** 404X).
Lockwasher and knurled ring nut (**925** 401X).
For **924** 404X and **925** 401X, nuts and body have the same finish.

APPROVALS: Recognized under the Components Program of Underwriters Laboratories. Certified by CSA.

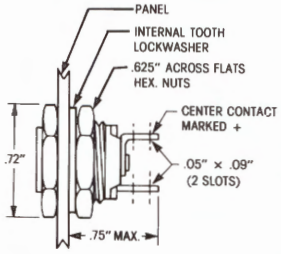
LAMPHOLDERS			LENS	
CATALOG NUMBER	**MOUNTING**	**ACCEPTABLE LAMP TYPE**	**CATALOG NUMBER**	**NON-DIFFUSING COLOR**
920 401X	Front	T-1-3/4 Midget Flanged Base Incandescent	**310** AN **310** GN **310** RN	Amber Green Red
924 404X	Front or Rear	T-1-3/4 Midget Flanged Base Incandescent	**410** AN **410** GN **410** RN	Amber Green Red
925 401X	Rear	T-1-3/4 Incandescent or T-2 Neon Midget Flanged Base	**510** AN **510** GN **510** RN	Amber Green Red

920 401X
Front Mounting
(Max. panel thickness .187″)



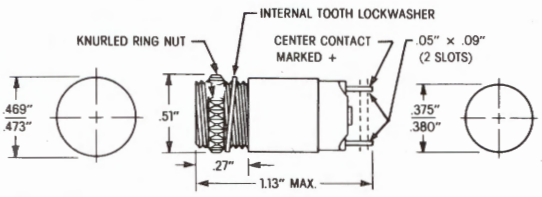
Mounting Hole

924 404X
Front or Rear Mounting
(Max. panel thickness .25″)



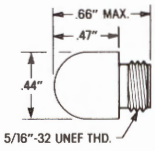
Mounting Hole

925 401X
Rear Mounting
(Max. panel thickness .125″)

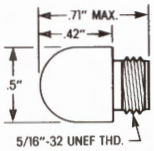


Mounting Hole

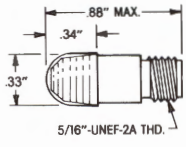
310 Series



410 Series



510 Series



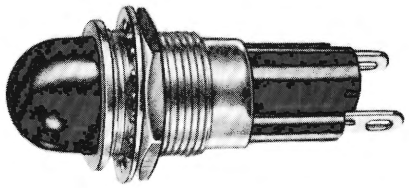
For other variations of Littelfuse Littelites® refer to the Selector Guide in this catalog or write for our complete Littelites® Catalog.

INDICATOR LIGHTS
MINIATURE LAMPHOLDERS

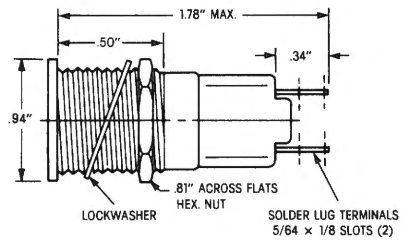
SPECIFICATIONS:
Materials: Brass (housing), Black Thermoset (body).
Termination: Solder lug. Tin-plated brass.
Hardware: Lockwasher and hex nut (unassembled).

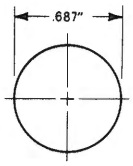
APPROVALS: Listed by Underwriters Laboratories. Certified by CSA.

930 Series



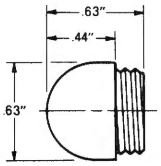
LAMPHOLDER			LENS	
CATALOG NUMBER	BODY FINISH	ACCEPTABLE LAMP TYPES	CATALOG NUMBER	NON-DIFFUSING LENS COLOR
930 404X	Black Nickel	Bayonet Based T-2 or T-3-1/4 Incandescent and T-3-1/4 Neon	**710** AN	Amber
930 405X	Bright Nickel		**710** GN	Green
			710 RN	Red





Mounting Hole

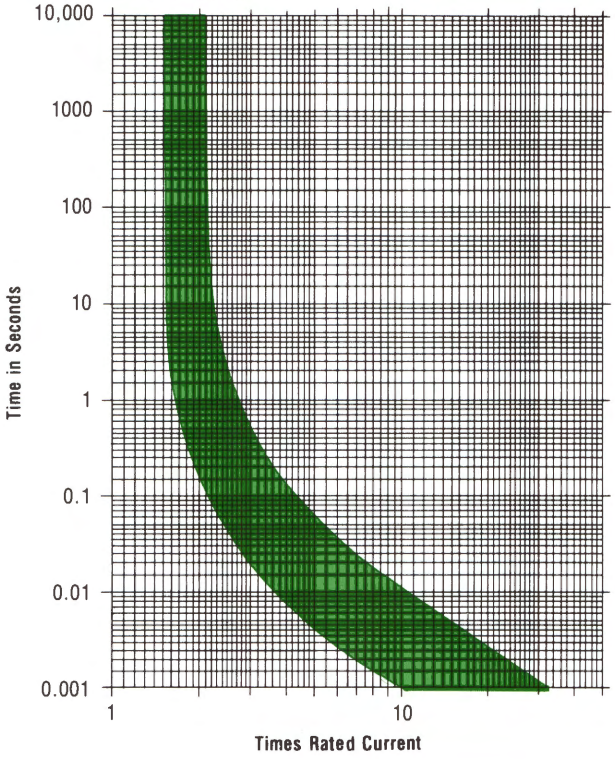
710 Series Lens



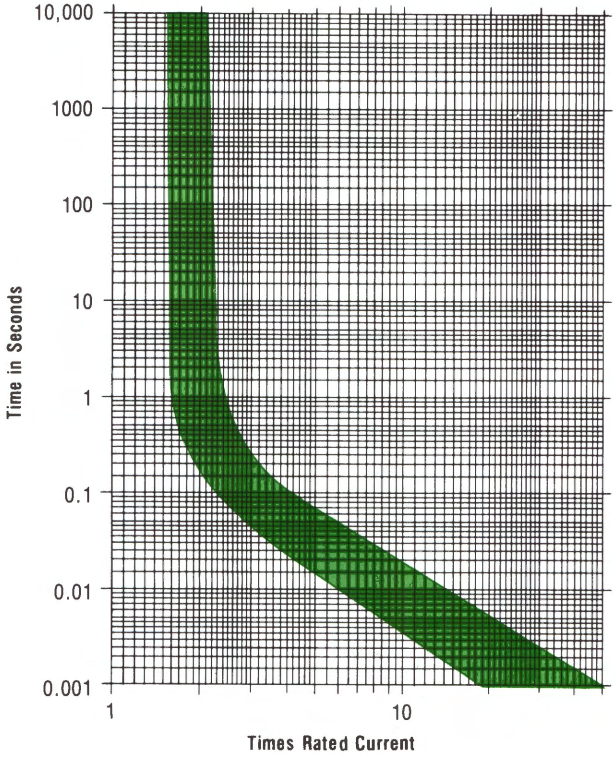
For other variations of Littelfuse Littelites® refer to the Selector Guide in this catalog or write for our complete Littelites® Catalog.

TIME-CURRENT CURVES

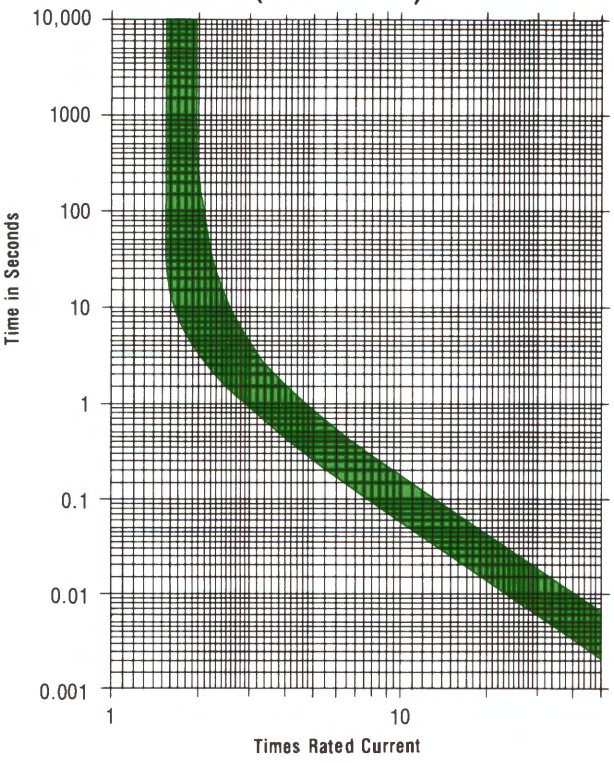
216 Series



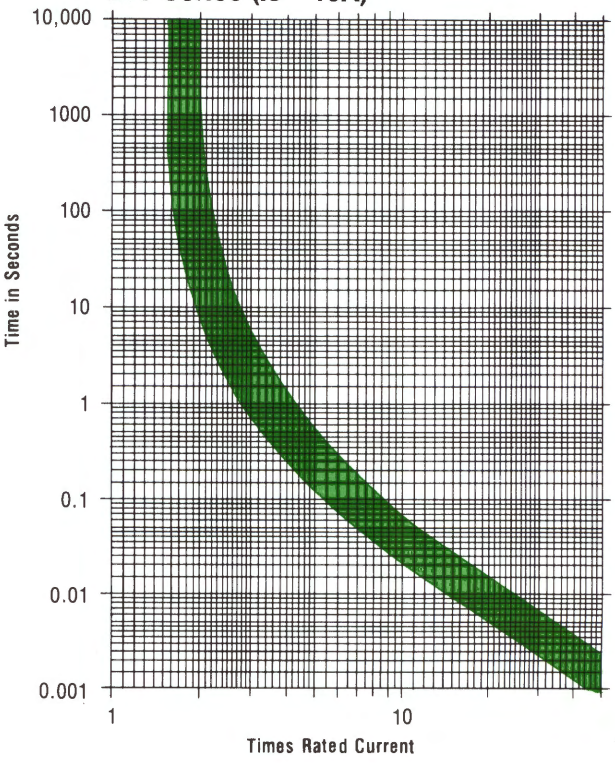
217 Series



218 Series (.032—.630A)

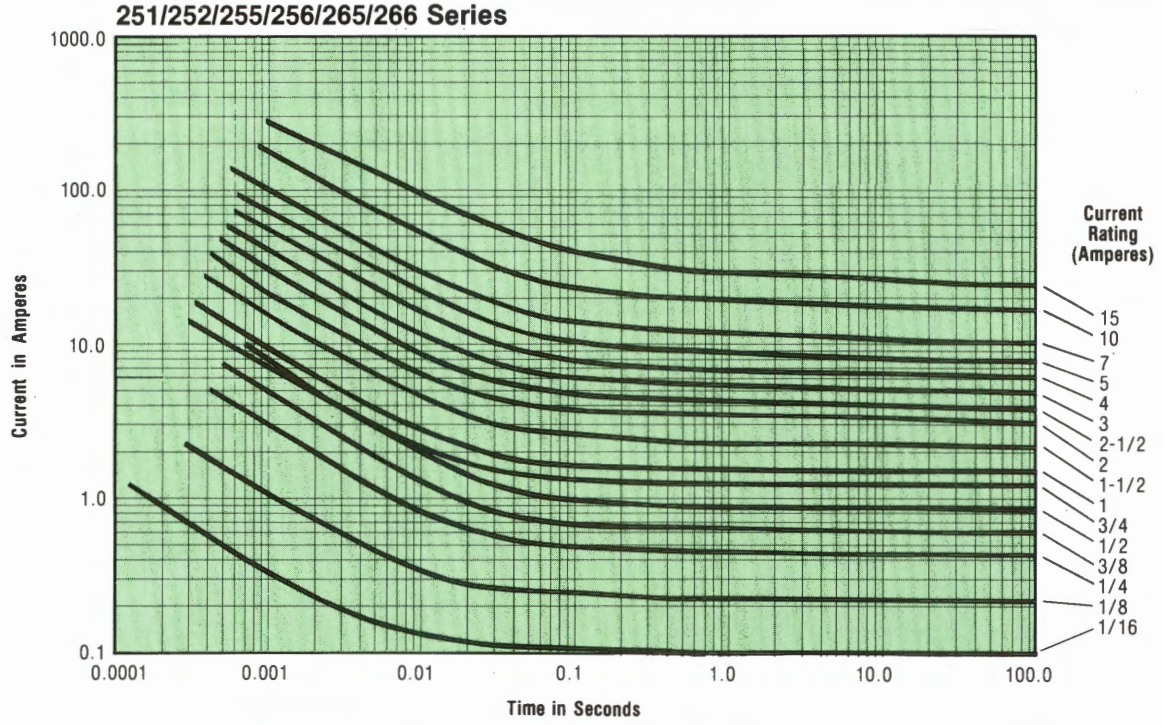


218 Series (.8—10A)

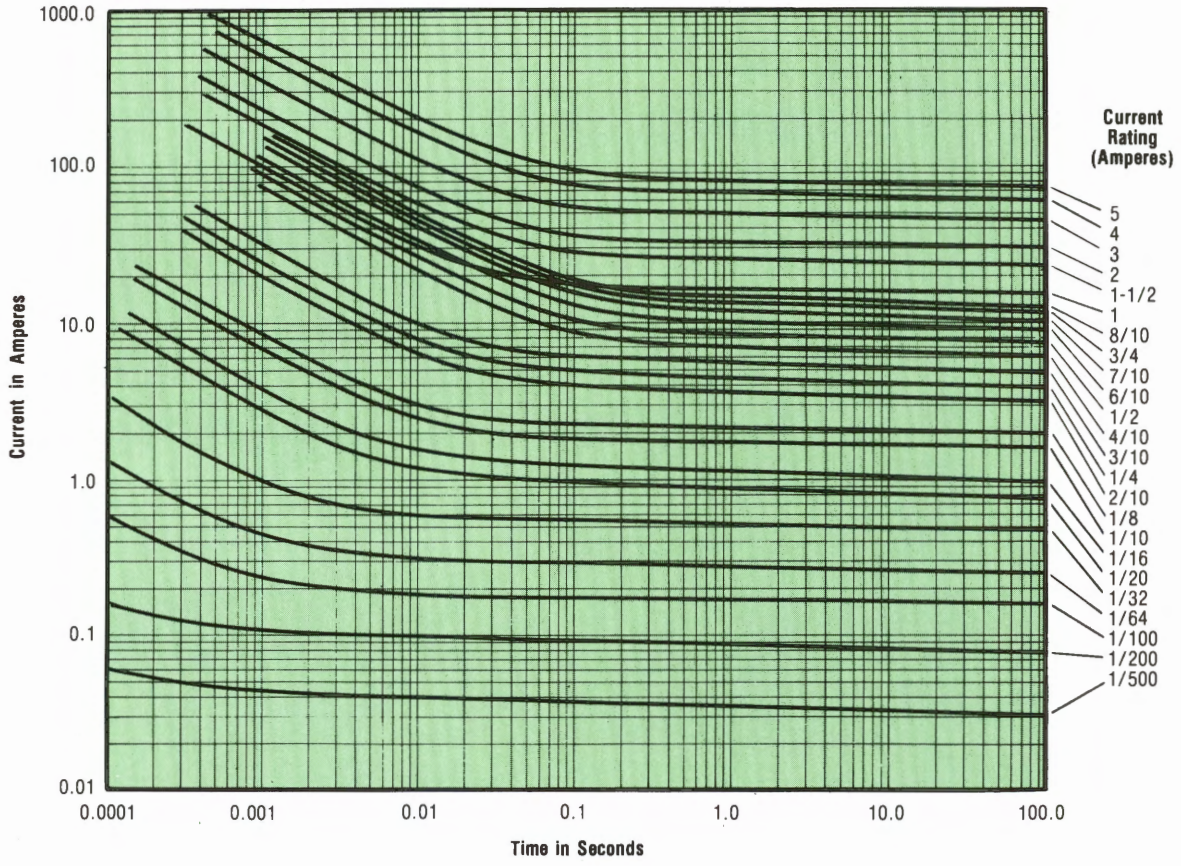


AVERAGE TIME-CURRENT CURVES

251/252/255/256/265/266 Series



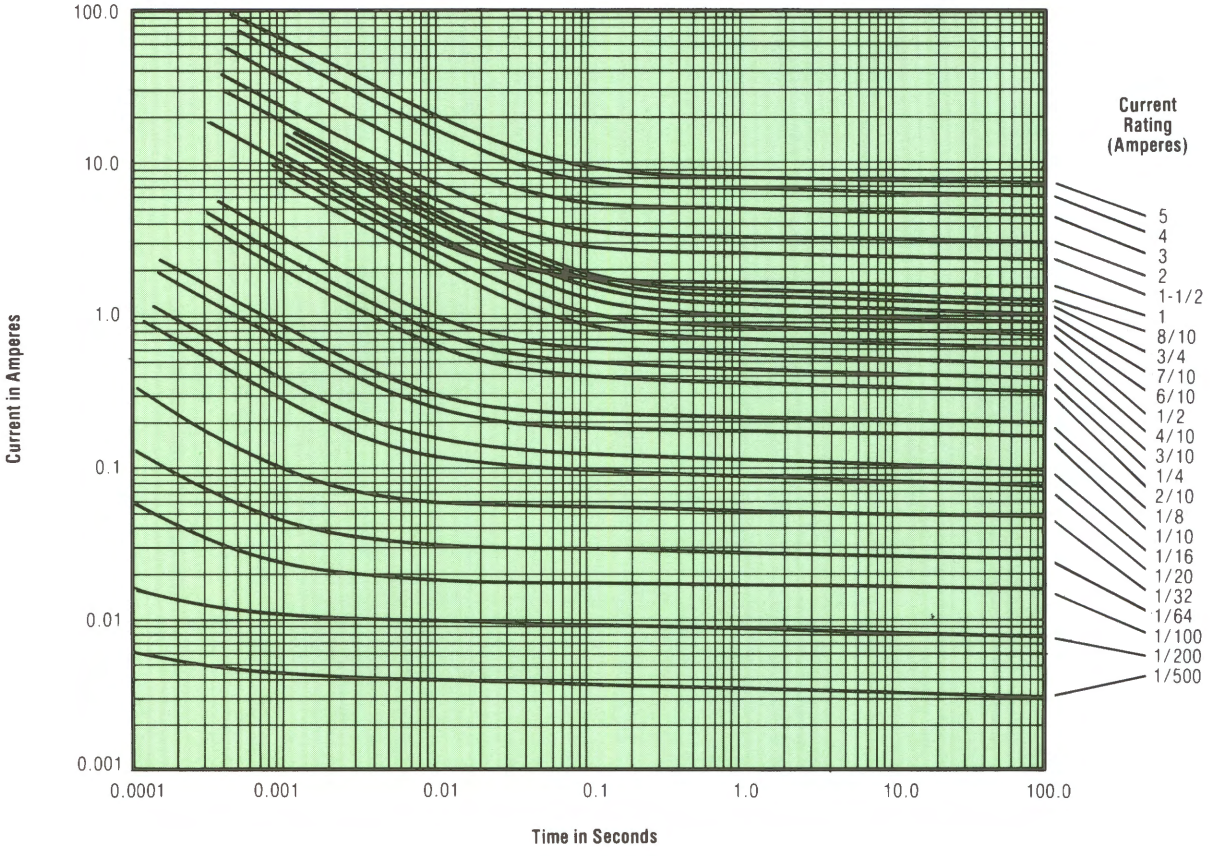
262/268/272/273/278/279 Series



AVERAGE TIME - CURRENT CURVES

NOTE:
For time-current data on the 312, 318 Series and on the 262/268/272/273/278/279 Series, please refer to the curves on this page and on the reverse side rather than those found in the enclosed Catalog 20, Form No. C20-1283 (pages 56 and 54 respectively).

262/268/272/273/278/279 Series

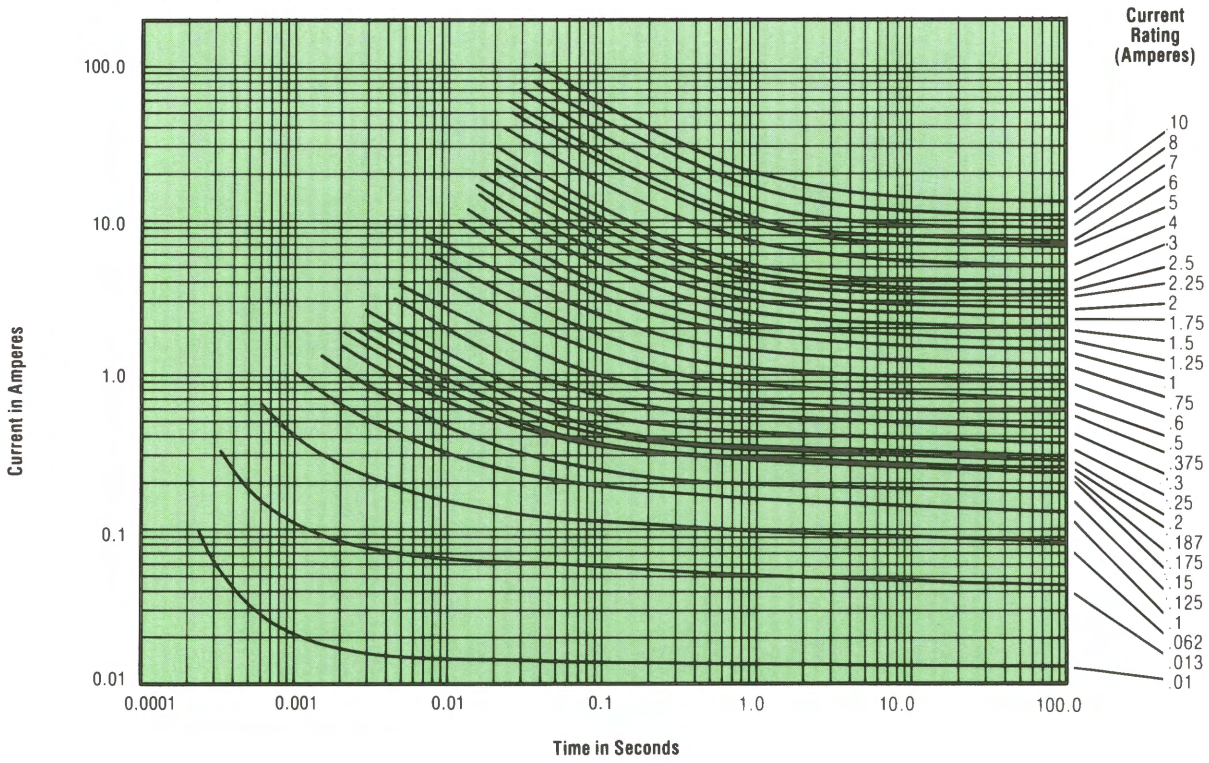


See reverse side for 312/318 Series curve.

AVERAGE TIME - CURRENT CURVES

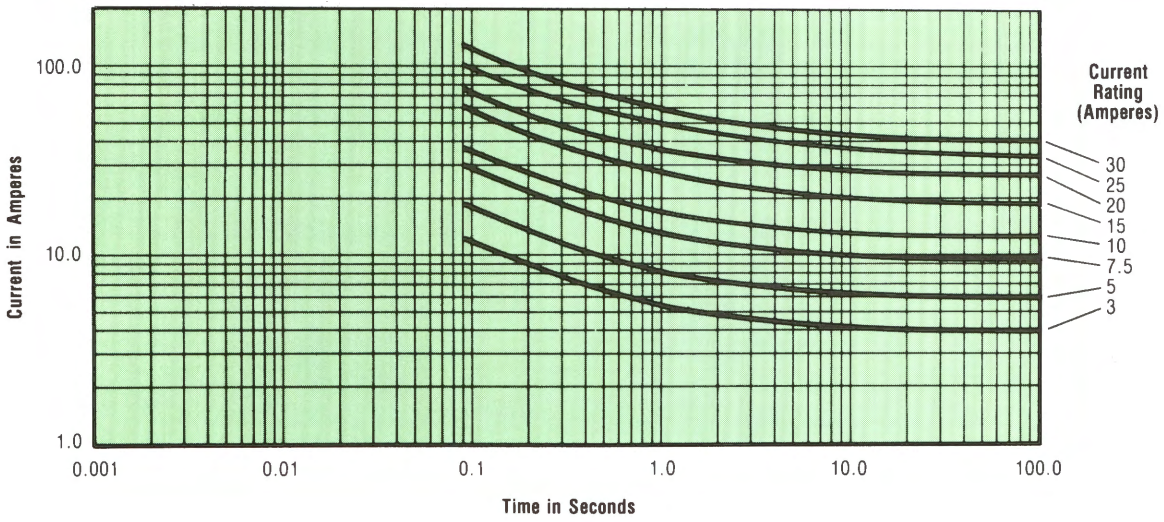
NOTE:
For time-current data on the 312, 318 Series and on the 262/268/272/273/278/279 Series, please refer to the curves on this page and on the reverse side rather than those found in the enclosed Catalog 20, Form No. C20-1283 (pages 56 and 54 respectively).

312/318 Series

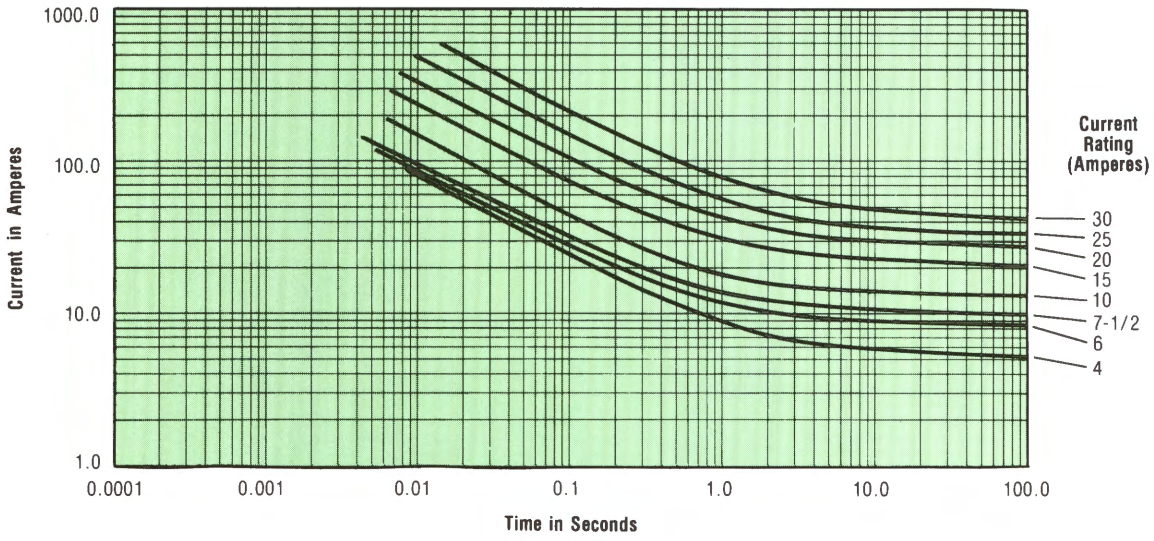


AVERAGE TIME-CURRENT CURVES

257 Series

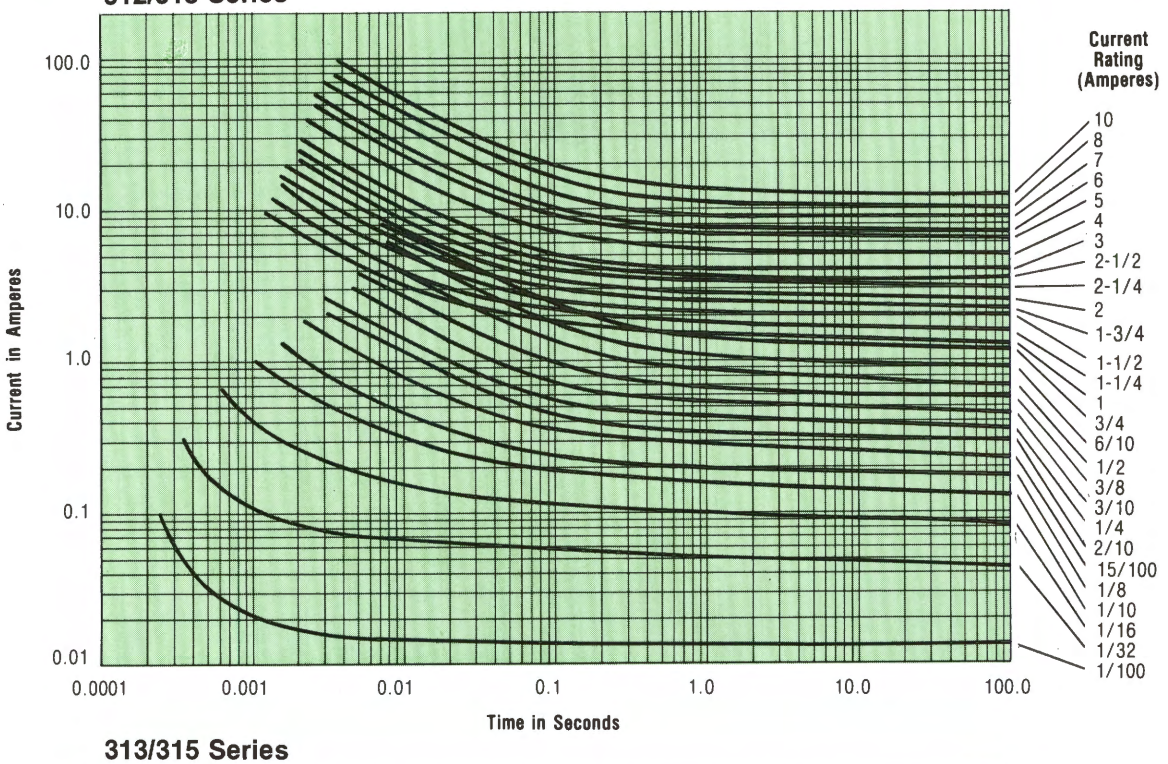


311 Series

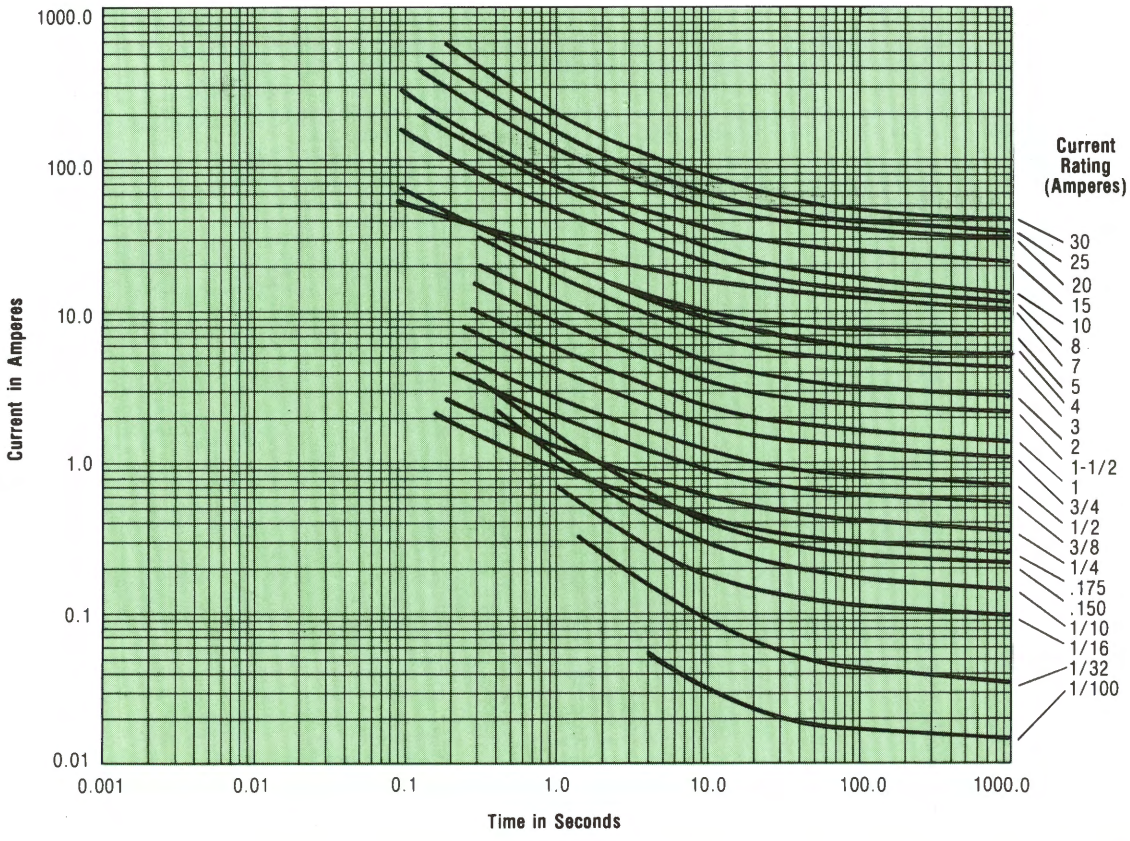


AVERAGE TIME-CURRENT CURVES

312/318 Series

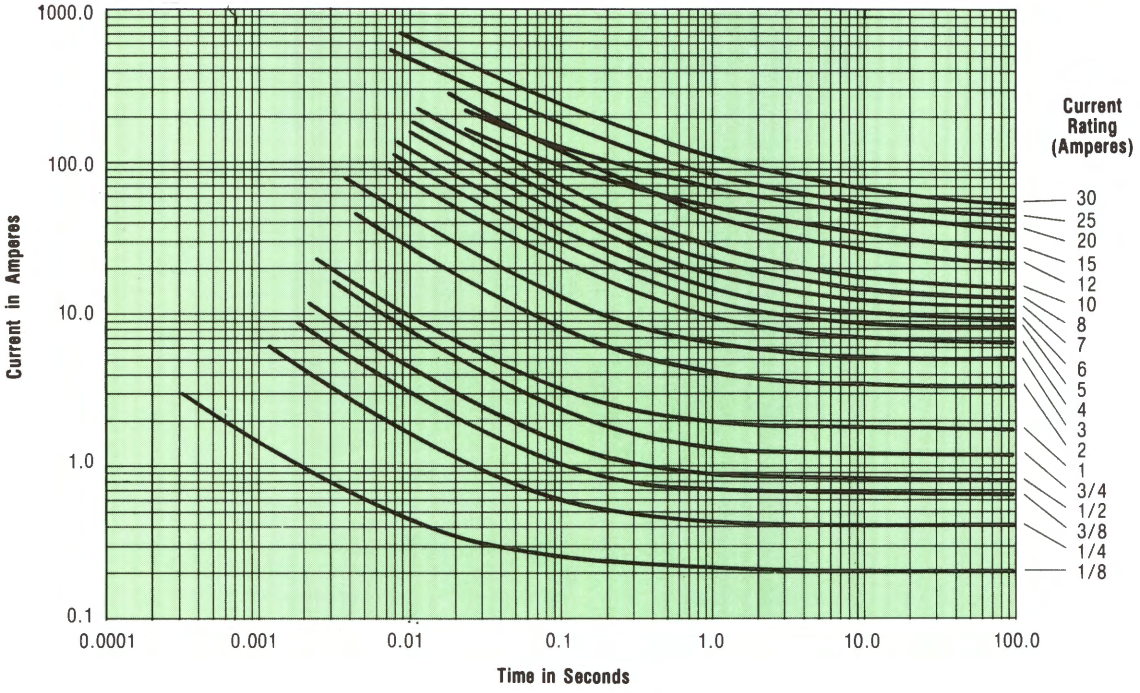


313/315 Series

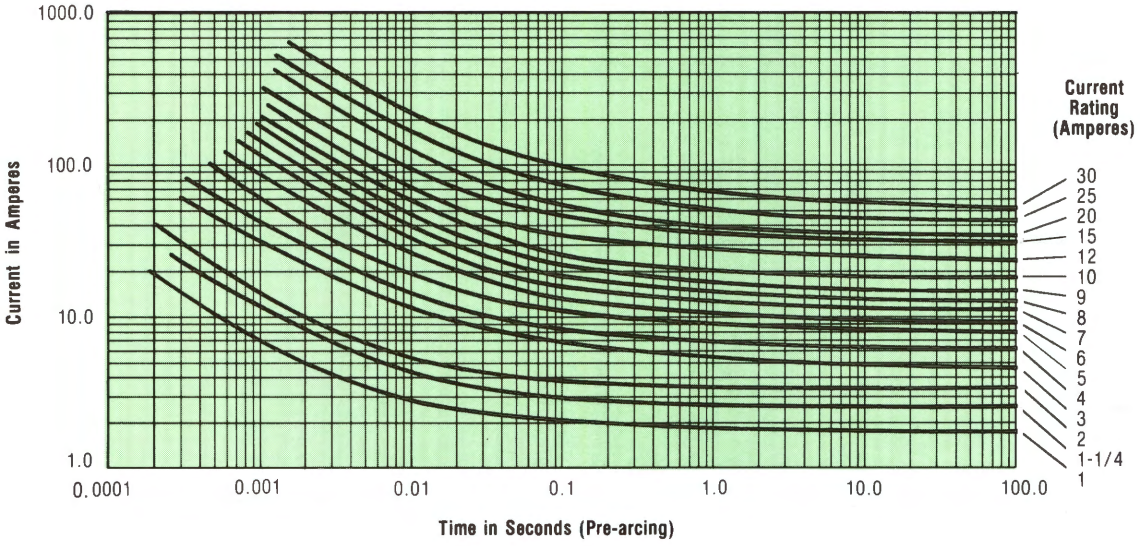


AVERAGE TIME-CURRENT CURVES

314/324 Series

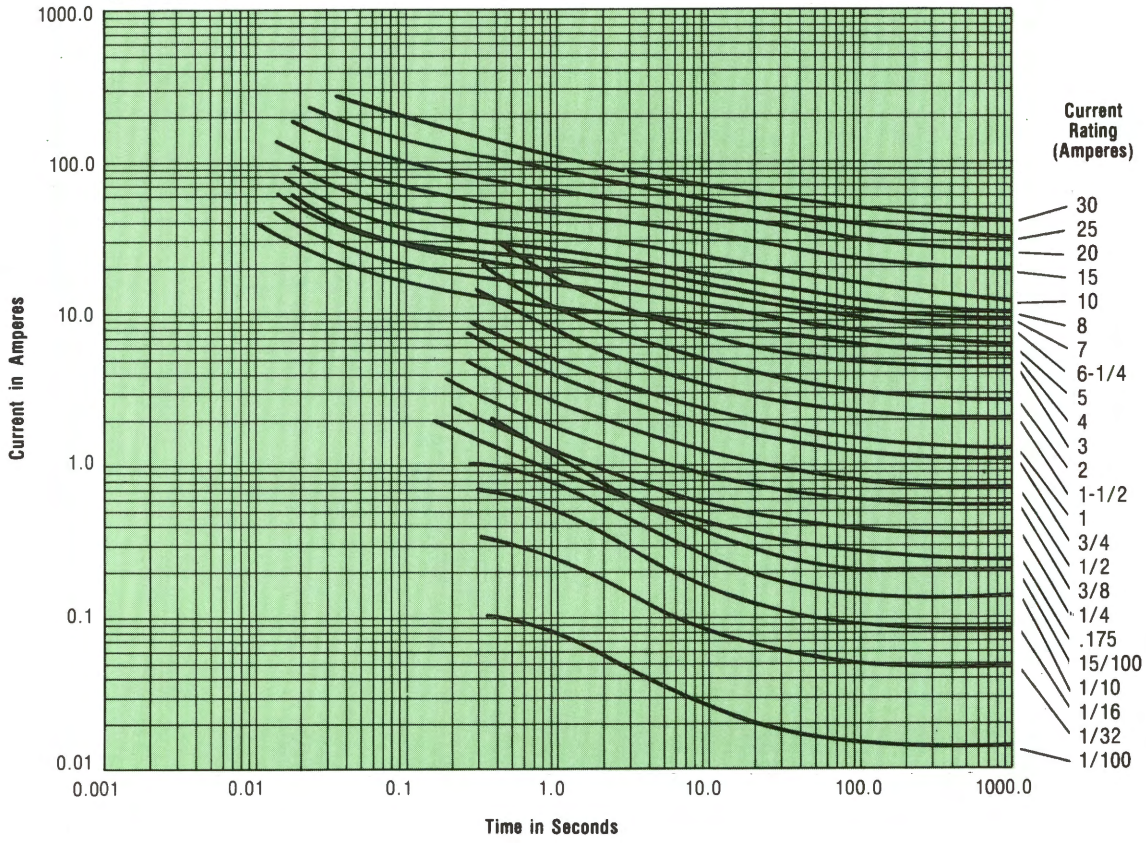


322 Series

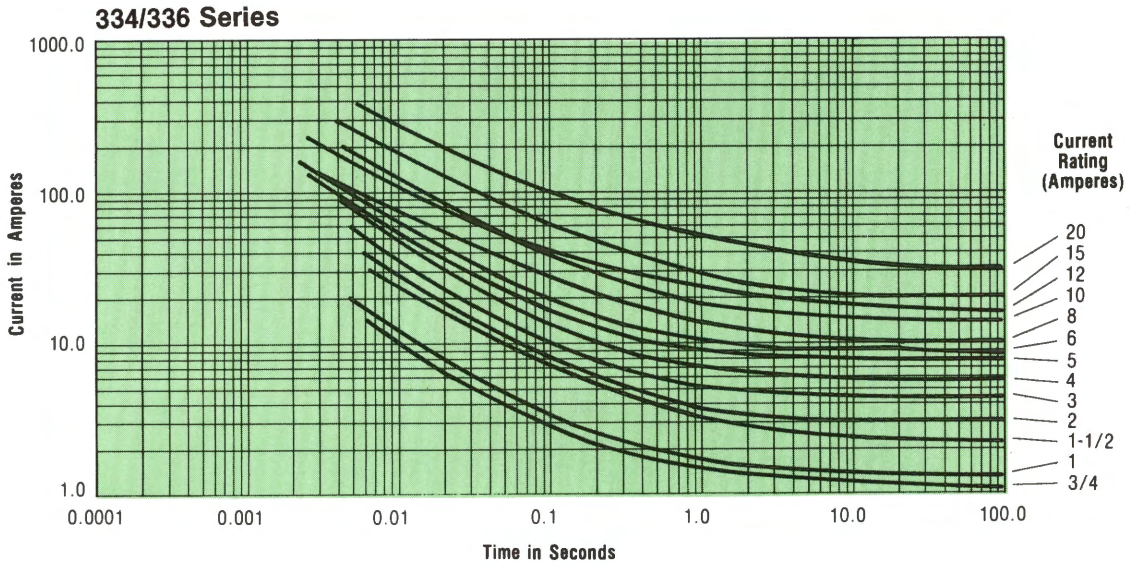


AVERAGE TIME-CURRENT CURVES

326 Series

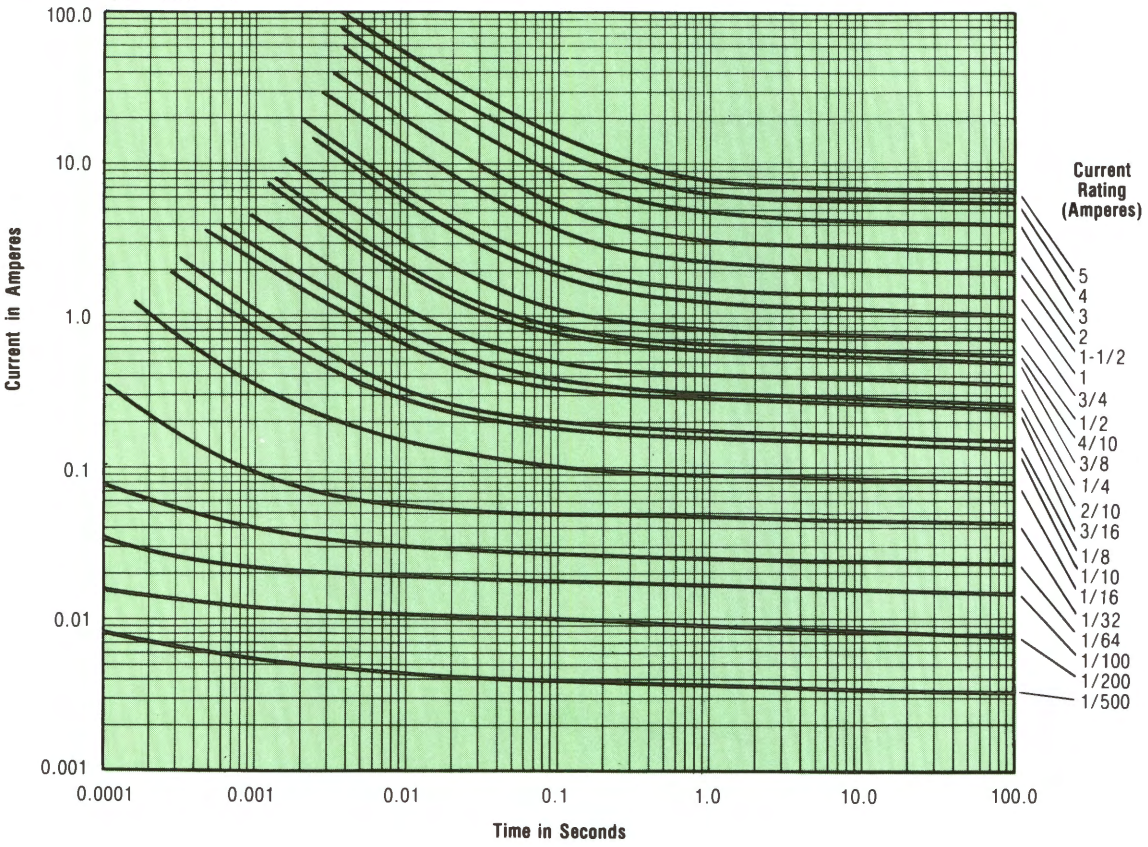


334/336 Series

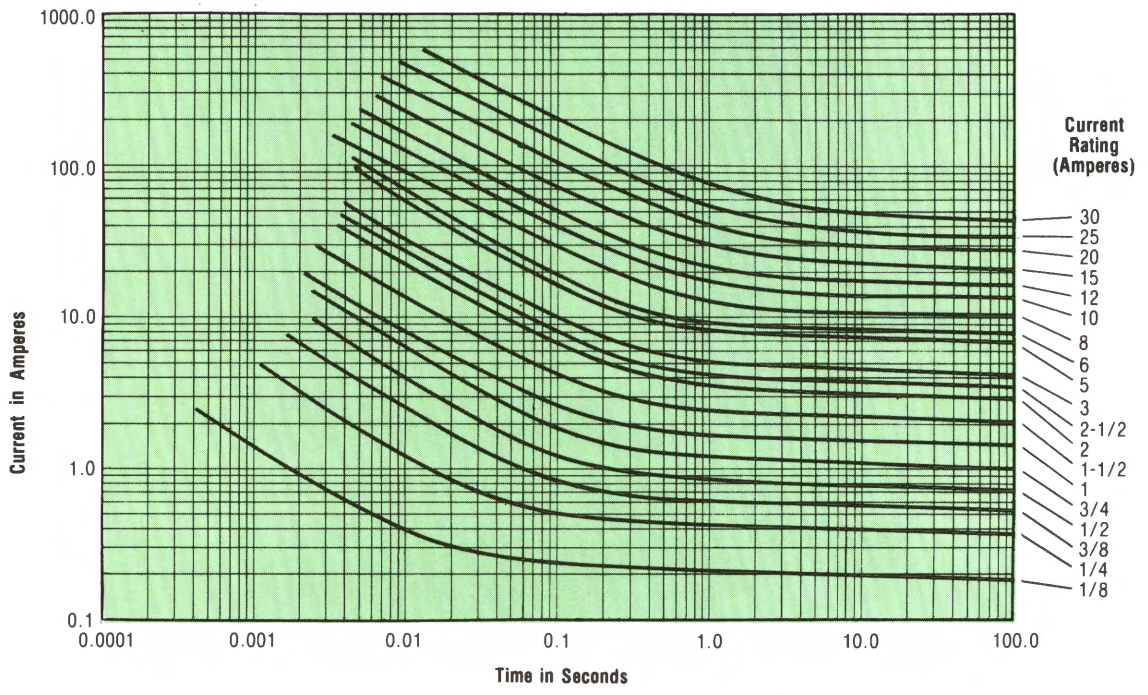


AVERAGE TIME-CURRENT CURVES

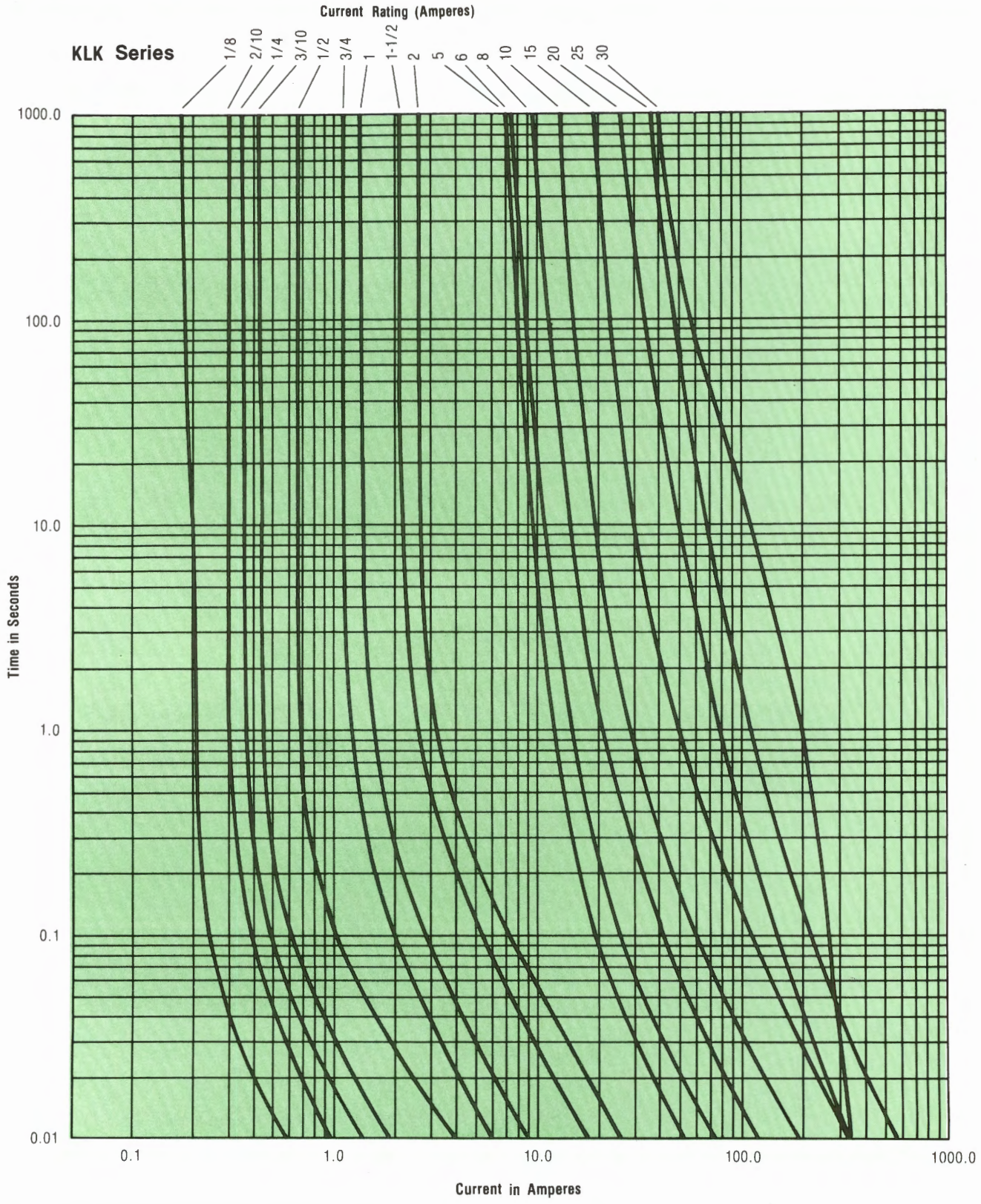
361 Series



362/368 Series



AVERAGE TIME-CURRENT CURVES



Approved to MIL-F-23419

FM02 FUSES (Commercial Equivalent — 273 Series Microfuses)

MIL TYPE DESIGNATION	CATALOG NUMBER
FM02 A 125V 1/500A	**274**.002
FM02 A 125V 1/200A	**274**.005
FM02 A 125V 1/100A	**274**.010
FM02 A 125V 1/64A	**274**.015
FM02 A 125V 1/32A	**274**.031
FM02 A 125V 1/16A	**274**.062
FM02 A 125V 1/10A	**274**.100
FM02 A 125V 1/8A	**274**.125
FM02 A 125V 2/10A	**274**.200
FM02 A 125V 1/4A	**274**.250
FM02 A 125V 3/10A	**274**.300
FM02 A 125V 4/10A	**274**.400
FM02 A 125V 1/2A	**274**.500
FM02 A 125V 6/10A	**274**.600
FM02 A 125V 3/4A	**274**.750
FM02 A 125V 1A	**274** 001
FM02 A 125V 1-1/2A	**274** 01.5
FM02 A 125V 2A	**274** 002
FM02 A 125V 3A	**274** 003
FM02 A 125V 4A	**274** 004
FM02 A 125V 5A	**274** 005

FM04 FUSES (Commercial Equivalent — 275 Series Picofuses)

MIL TYPE DESIGNATION	CATALOG NUMBER
FM04 A 125V 1/16A	**277**.062
FM04 A 125V 1/8A	**277**.125
FM04 A 125V 1/4A	**277**.250
FM04 A 125V 3/8A	**277**.375
FM04 A 125V 1/2A	**277**.500
FM04 A 125V 3/4A	**277**.750
FM04 A 125V 1A	**277** 001
FM04 A 125V 1-1/2A	**277** 01.5
FM04 A 125V 2A	**277** 002
FM04 A 125V 3A	**277** 003
FM04 A 125V 4A	**277** 004
FM04 A 125V 5A	**277** 005
FM04 A 125V 7A	**277** 007
FM04 A 125V 10A	**277** 010
FM04 A 32V 15A	**277** 015

FM07 FUSES (Commercial Equivalent — 262 Series Microfuses)

MIL TYPE DESIGNATION	CATALOG NUMBER
FM07 A 125V 1/500A	**269**.002
FM07 A 125V 1/200A	**269**.005
FM07 A 125V 1/100A	**269**.010
FM07 A 125V 1/64A	**269**.015
FM07 A 125V 1/32A	**269**.031
FM07 A 125V 1/20A	**269**.050
FM07 A 125V 1/16A	**269**.062
FM07 A 125V 1/10A	**269**.100
FM07 A 125V 1/8A	**269**.125
FM07 A 125V 2/10A	**269**.200
FM07 A 125V 1/4A	**269**.250
FM07 A 125V 3/10A	**269**.300
FM07 A 125V 4/10A	**269**.400
FM07 A 125V 1/2A	**269**.500
FM07 A 125V 6/10A	**269**.600
FM07 A 125V 7/10A	**269**.700
FM07 A 125V 3/4A	**269**.750
FM07 A 125V 8/10A	**269**.800
FM07 A 125V 1A	**269** 001
FM07 A 125V 1-1/2A	**269** 01.5
FM07 A 125V 2A	**269** 002
FM07 A 125V 3A	**269** 003
FM07 A 125V 4A	**269** 004
FM07 A 125V 5A	**269** 005

FM08 FUSES (Commercial Equivalent — 265 Series Picofuses)

MIL TYPE DESIGNATION	CATALOG NUMBER
FM08 A 125V 1/8A	**267**.125
FM08 A 125V 1/4A	**267**.250
FM08 A 125V 3/8A	**267**.375
FM08 A 125V 1/2A	**267**.500
FM08 A 125V 3/4A	**267**.750
FM08 A 125V 1A	**267** 001
FM08 A 125V 1-1/2A	**267** 01.5
FM08 A 125V 2A	**267** 002
FM08 A 125V 2-1/2A	**267** 02.5
FM08 A 125V 3A	**267** 003
FM08 A 125V 4A	**267** 004
FM08 A 125V 5A	**267** 005
FM08 A 125V 7A	**267** 007
FM08 A 125V 10A	**267** 010
FM08 A 32V 15A	**267** 015

Approved to MIL-F-15160

F01A FUSES (Commercial Equivalent — 361 Series)

MIL TYPE DESIGNATION	NICKEL-PLATED CAPS	SILVER-PLATED CAPS
F01A 250V 1/200A	**364**.005	**366**.005
F01A 250V 1/100A	**364**.010	**366**.010
F01A 250V 1/32A	**364**.031	**366**.031
F01A 250V 1/16A	**364**.062	**366**.062
F01A 250V 1/10A	**364**.100	**366**.100
F01A 250V 1/8A	**364**.125	**366**.125
F01A 250V 3/16A	**364**.187	**366**.187
F01A 250V 2/10A	**364**.200	**366**.200
F01A 250V 1/4A	**364**.250	**366**.250
F01A 250V 3/8A	**364**.375	**366**.375
F01A 250V 4/10A	**364**.400	**366**.400
F01A 250V 1/2A	**364**.500	**366**.500
F01A 125V 6/10A	**364**.600	**366**.600
F01A 125V 3/4A	**364**.750	**366**.750
F01A 125V 8/10A	**364**.800	**366**.800
F01A 125V 1A	**364** 001	**366**.001
F01A 125V 1-1/4A	**364** 1.25	**366** 1.25
F01A 125V 1-1/2A	**364** 01.5	**366** 01.5
F01A 125V 1-6/10A	**364** 01.6	**366** 01.6
F01A 125V 2A	**364** 002	**366** 002
F01A 125V 2-1/2A	**364** 02.5	**366** 02.5
F01A 125V 3A	**364** 003	**366** 003
F01A 125V 3-2/10A	**364** 03.2	**366** 03.2
F01A 125V 4A	**364** 004	**366** 004
F01A 125V 5A	**364** 005	**366** 005

F02A FUSES (Commercial Equivalent — 312 Series)

MIL TYPE DESIGNATION	NICKEL-PLATED CAPS	SILVER-PLATED CAPS
F02A 250V 1/100A	**392**.010	**397**.010
F02A 250V 1/32A	**392**.031	**397**.031
F02A 250V 1/16A	**392**.062	**397**.062
F02A 250V 1/8A	**392**.125	**397**.125
F02A 250V 15/100A	**392**.150	**397**.150
F02A 250V 175/1000A	**392**.175	**397**.175
F02A 250V 3/16A	**392**.187	**397**.187
F02A 250V 2/10A	**392**.200	**397**.200
F02A 250V 1/4A	**392**.250	**397**.250
F02A 250V 3/10A	**392**.300	**397**.300
F02A 250V 3/8A	**392**.375	**397**.375
F02A 250V 1/2A	**392**.500	**397**.500
F02A 250V 6/10A	**392**.600	**397**.600
F02A 250V 3/4A	**392**.750	**397**.750
F02A 250V 1A	**392** 001	**397** 001
F02A 250V 1-1/4A	**392** 1.25	**397** 1.25
F02A 250V 1-1/2A	**392** 01.5	**397** 01.5
F02A 250V 1-6/10A	**392** 01.6	**397** 01.6
F02A 250V 2A	**392** 002	**397** 002
F02A 250V 2-1/2A	**392** 02.5	**397** 02.5
F02A 250V 3A	**392** 003	**397** 003
F02A 250V 4A	**392** 004	**397** 004
F02A 250V 5A	**392** 005	**397** 005
F02A 250V 6A	**392** 006	**397** 006
F02A 125V 8A	**392** 008	**397** 008
F02A 125V 10A	**392** 010	**397** 010

F02B FUSES (Commercial Equivalent — 313 Series)

MIL TYPE DESIGNATION	NICKEL-PLATED CAPS	SILVER-PLATED CAPS
F02B 250V 1/100A	**393**.010	**398**.010
F02B 250V 1/32A	**393**.031	**398**.031
F02B 250V 1/16A	**393**.062	**398**.062
F02B 250V 1/10A	**393**.100	**398**.100

NOTE: The suffix letter 'S' added to the type designation indicates that Silver-Plated fuse caps are required. For example: F02A 250V 3/4A S.

MILITARY COMPONENTS
FUSES

Approved to MIL-F-15160

F02B FUSES (Commercial Equivalent — 313 Series)

MIL TYPE DESIGNATION	NICKEL-PLATED CAPS	SILVER-PLATED CAPS
F02B 250V 1/8A	**393**.125	**398**.125
F02B 250V 15/100A	**393**.150	**398**.150
F02B 250V 3/16A	**393**.187	**398**.187
F02B 250V 2/10A	**393**.200	**398**.200
F02B 250V 1/4A	**393**.250	**398**.250
F02B 250V 3/10A	**393**.300	**398**.300
F02B 250V 3/8A	**393**.375	**398**.375
F02B 250V 4/10A	**393**.400	**398**.400
F02B 250V 1/2A	**393**.500	**398**.500
F02B 250V 6/10A	**393**.600	**398**.600
F02B 250V 7/10A	**393**.700	**398**.700
F02B 250V 3/4A	**393**.750	**398**.750
F02B 250V 8/10A	**393**.800	**398**.800
F02B 250V 1A	**393** 001	**398** 001
F02B 250V 1-1/4A	**393** 1.25	**398** 1.25
F02B 250V 1-1/2A	**393** 01.5	**398** 01.5
F02B 250V 1-6/10A	**393** 01.6	**398** 01.6
F02B 250V 2A	**393** 002	**398** 002
F02B 250V 2-1/2A	**393** 02.5	**398** 02.5
F02B 250V 2-8/10A	**393** 02.8	**398** 02.8
F02B 250V 3A	**393** 003	**398** 003
F02B 250V 3-2/10A	**393** 03.2	**398** 03.2

F03A FUSES (Commercial Equivalent — 314 Series)

MIL TYPE DESIGNATION	NICKEL-PLATED CAPS	SILVER-PLATED CAPS
F03A 250V 1/4A	**394**.250	**399**.250
F03A 250V 1/2A	**394**.500	**399**.500
F03A 250V 1A	**394** 001	**399** 001
F03A 250V 1-1/4A	**394** 1.25	**399** 1.25
F03A 250V 1-1/2A	**394** 01.5	**399** 01.5
F03A 250V 2A	**394** 002	**399** 002
F03A 250V 3A	**394** 003	**399** 003
F03A 250V 4A	**394** 004	**399** 004
F03A 250V 5A	**394** 005	**399** 005
F03A 250V 6A	**394** 006	**399** 006
F03A 250V 8A	**394** 008	**399** 008
F03A 250V 10A	**394** 010	**399** 010
F03A 250V 12A	**394** 012	**399** 012
F03A 250V 15A	**394** 015	**399** 015
F03A 125V 20A	**394** 020	**399** 020
F03A 125V 25A	**394** 025	**399** 025
F03A 125V 30A	**394** 030	**399** 030

F03B FUSES (Commercial Equivalent — 326 Series)

MIL TYPE DESIGNATION	NICKEL-PLATED CAPS	SILVER-PLATED CAPS
F03B 250V 1/100A	**390**.010	**395**.010
F03B 250V 1/32A	**390**.031	**395**.031
F03B 250V 1/16A	**390**.062	**395**.062
F03B 250V 1/10A	**390**.100	**395**.100
F03B 250V 1/8A	**390**.125	**395**.125
F03B 250V 15/100A	**390**.150	**395**.150
F03B 250V 3/16A	**390**.187	**395**.187
F03B 250V 1/4A	**390**.250	**395**.250
F03B 250V 3/10A	**390**.300	**395**.300
F03B 250V 3/8A	**390**.375	**395**.375
F03B 250V 1/2A	**390**.500	**395**.500
F03B 250V 6/10A	**390**.600	**395**.600
F03B 250V 3/4A	**390**.750	**395**.750
F03B 250V 8/10A	**390**.800	**395**.800
F03B 250V 1A	**390** 001	**395** 001
F03B 250V 1-1/4A	**390** 1.25	**395** 1.25
F03B 250V 1-1/2A	**390** 0.15	**395** 01.5
F03B 250V 1-6/10A	**390** 01.6	**395** 01.6
F03B 250V 2A	**390** 002	**395** 002
F03B 250V 2-1/2A	**390** 02.5	**395** 02.5
F03B 250V 2-8/10A	**390** 02.8	**395** 02.8
F03B 250V 3A	**390** 003	**395** 003
F03B 250V 3-2/10A	**390** 03.2	**395** 03.2

F07A FUSES (Commercial Equivalent — 512 Series)

MIL TYPE DESIGNATION	NICKEL-PLATED CAPS	SILVER-PLATED CAPS
F07A 250V 1A	**590** 001	**595** 001
F07A 250V 2A	**590** 002	**595** 002
F07A 250V 3A	**590** 003	**595** 003

F09A FUSES (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 (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 1-1/8A	**593** 1.12	**593** 1.12S
F09B 250V 1-1/4A	**593** 1.25	**593** 1.25S
F09B 250V 1-4/10A	**593** 01.4	**593** 01.4S
F09B 250V 1-6/10A	**593** 01.6	**593** 01.6S
F09B 250V 1-8/10A	**593** 01.8	**593** 01.8S
F09B 250V 2A	**593** 002	**593** 002S
F09B 250V 2-1/4A	**593** 02.25	**593** 02.25S
F09B 250V 2-1/2A	**593** 02.5	**593** 02.5S
F09B 250V 2-8/10A	**593** 02.8	**593** 02.8S
F09B 250V 3-2/10A	**593** 03.2	**593** 03.2S
F09B 250V 3-1/2A	**593** 03.5	**593** 03.5S
F09B 250V 4A	**593** 004	**593** 004S
F09B 250V 4-1/2A	**593** 04.5	**593** 04.5S
F09B 250V 5A	**593** 005	**593** 005S
F09B 250V 5-6/10A	**593** 05.6	**593** 05.6S
F09B 250V 6-1/4A	**593** 06.25	**593** 06.25S
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 (Commercial Equivalent — KLK Series)

MIL TYPE DESIGNATION	NICKEL-PLATED CAPS	SILVER-PLATED CAPS
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 3A	**592** 003	**592** 003S
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

NOTE: The suffix letter 'S' added to the type designation indicates that Silver-Plated fuse caps are required. For example: F09A 250V 1A S.

Approved to MIL-F-19207

APPROVED TO MIL-F-19207		SPECIFICATIONS			COMMERCIAL EQUIVALENT	
TYPE DESIGNATION	CATALOG NUMBER	TYPE	VOLTAGE RANGE	FOR FUSE TYPE	CATALOG NUMBER	VOLTAGE RANGE
FHL17G2	**349** 250	Indicating	90 to 250V	3AG	**344** 250 **344** 125	200 to 250V 100 to 125V
FHL18G2-1	**349** 012	Indicating	12 to 22V	3AG	**344** 024	16 to 32V
FHL18G2-2	**349** 023	Indicating	23 to 33V	3AG	**344** 024	16 to 32V
FHL18G2-3	**349** 034	Indicating	34 to 45V	3AG		
FHL18G2-4	**349** 046	Indicating	46 to 60V	3AG		
FHL18G2-5	**349** 061	Indicating	61 to 80V	3AG		
FHL18G2-6	**349** 081	Indicating	81 to 90V	3AG	**344** 006	2.5 to 7V
FHL18G2-7	**349** 002	Indicating	2.5 to 4V	3AG	**344** 006	2.5 to 7V
FHL18G2-8	**349** 005	Indicating	5 to 7V	3AG	**344** 006	2.5 to 7V
FHL18G2-9	**349** 008	Indicating	8 to 12V	3AG	**344** 012	7 to 16V
FHL44G-1	**284** 007	Indicating	12 to 22V	Micro	**284** 005	7 to 16V
FHL44G-2	**284** 008	Indicating	23 to 33V	Micro	**284** 006	16 to 32V
FHL44G-3	**284** 009	Indicating	34 to 45V	Micro		
FHL44G-4	**284** 010	Indicating	46 to 60V	Micro		
FHL44G-5	**284** 011	Indicating	61 to 80V	Micro		
FHL44G-6	**284** 012	Indicating	81 to 90V	Micro		
FHL45G	**284** 013	Indicating	90 to 125V	Micro	**284** 003	100 to 130V
FHN20G	342 025	Drip-proof		3AG	**342** 004P	
FHN26G2	**342** 024	Drip-proof		3AG	**342** 012P	
FHN26W	**342** 021	Water-tight		3AG	**342** 006	
FHN 55W	**340** 267	Water tight-RFI	250V Max.	3AG	*	250V Max.

*NOTE: Commercial equivalent for panel mounted holder is **342** 012P; R.F. Shielding hardware is the same as for **340** 313.

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*Not recommended for new design. Contact the factory about availability.

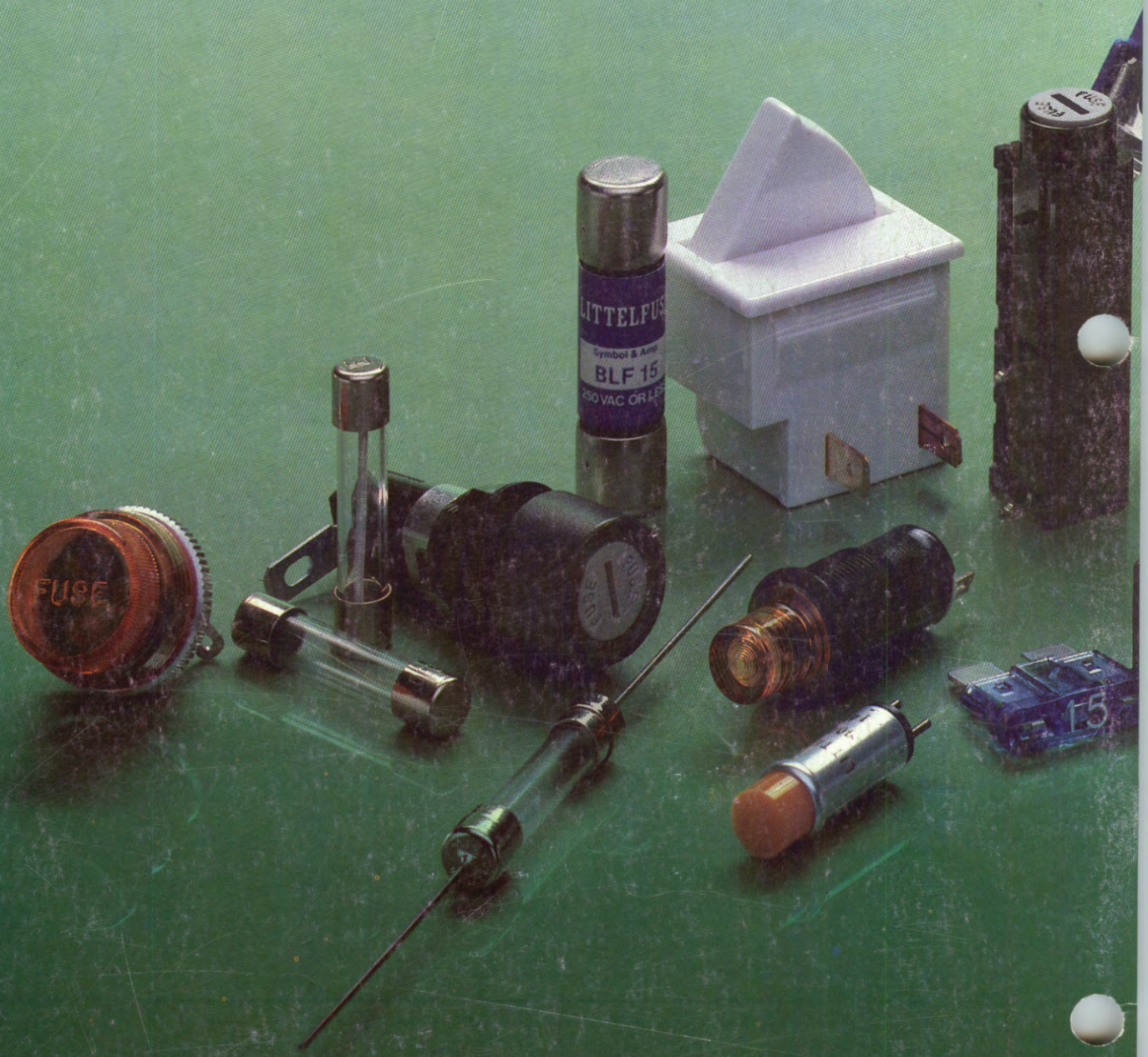
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