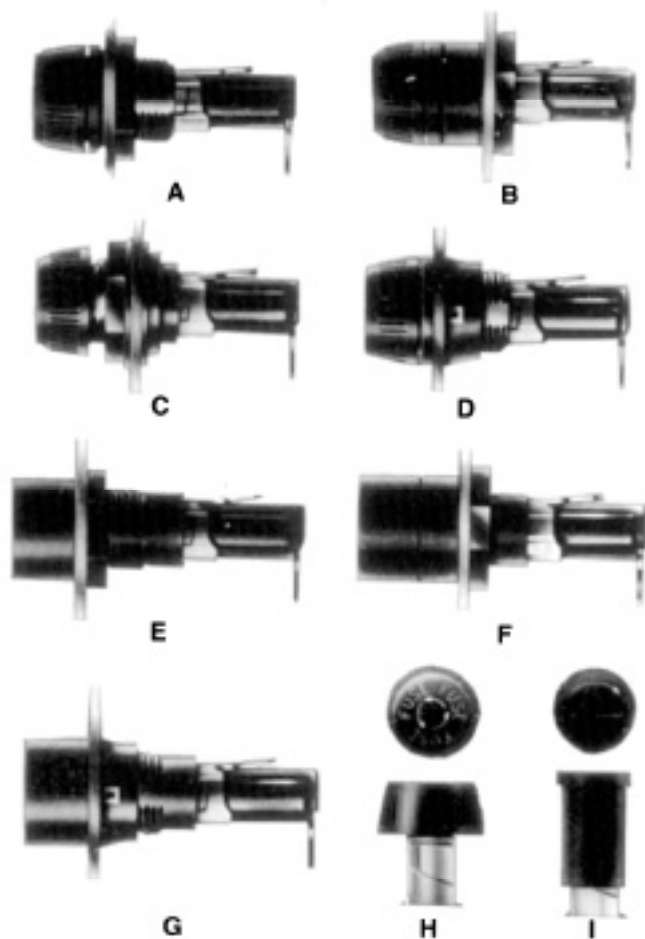
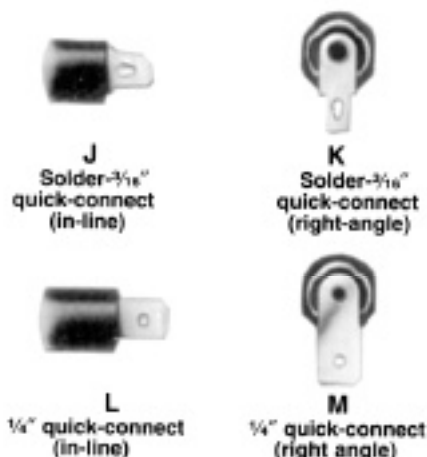


## BUSS HTB UNIVERSAL FUSEHOLDERS

The 56 versions of the Buss HTB fuseholders offer complete design flexibility. Designed to UL, CSA, SEMKO and VDE standards. Both finger grip and screwdriver slotted fuse carriers are available. The HTB-40 and 50 series have a high mounting profile, while the HTB-20 and 30 series have a low mounting profile. The HTB-60 mounts through rear of panel permitting wire connections to be made to holder before mounting in panel. The HTB-80 and 90 series provide fast, easy and secure mounting without tools or hardware. Terminal options include in-line or right angle solder  $\frac{3}{16}$ " quick-connects and in-line or right angle  $\frac{1}{4}$ " quick-connects. The HTB will accept both  $\frac{1}{4}$ "  $\times$   $1\frac{1}{4}$ " and 5mm  $\times$  20mm fuses simply by changing the carriers. 250 Volts.

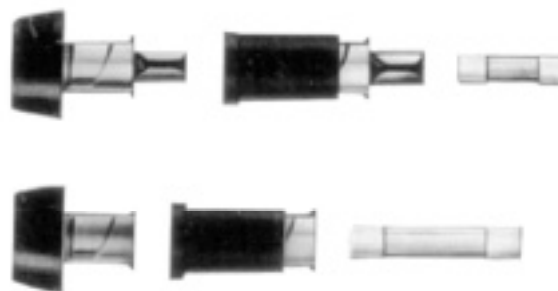


TERMINAL TYPES



| Mfr. No.                                    | Mounting Style | Terminal Type |
|---------------------------------------------|----------------|---------------|
| <b>FINGER GRIP KNOB HOLDERS (FIG. H)</b>    |                |               |
| HTB-22I                                     | A              | J             |
| HTB-22M                                     | A              | J             |
| HTB-24I                                     | A              | K             |
| HTB-24M                                     | A              | K             |
| HTB-26I                                     | A              | L             |
| HTB-26M                                     | A              | L             |
| HTB-28I                                     | A              | M             |
| HTB-28M                                     | A              | M             |
| HTB-42I                                     | B              | J             |
| HTB-42M                                     | B              | J             |
| HTB-44I                                     | B              | K             |
| HTB-44M                                     | B              | K             |
| HTB-46I                                     | B              | L             |
| HTB-46M                                     | B              | L             |
| HTB-48I                                     | B              | M             |
| HTB-48M                                     | B              | M             |
| HTB-62I                                     | C              | J             |
| HTB-62M                                     | C              | J             |
| HTB-64I                                     | C              | K             |
| HTB-64M                                     | C              | K             |
| HTB-66I                                     | C              | L             |
| HTB-68I                                     | C              | M             |
| HTB-82I                                     | D              | J             |
| HTB-82M                                     | D              | J             |
| <b>SCREW-DRIVER SLOTTED HOLDER (FIG. I)</b> |                |               |
| HTB-32I                                     | E              | J             |
| HTB-32M                                     | E              | J             |
| HTB-34I                                     | E              | K             |
| HTB-34M                                     | E              | K             |
| HTB-36I                                     | E              | L             |
| HTB-36M                                     | E              | L             |
| HTB-38I                                     | E              | M             |
| HTB-38M                                     | E              | M             |
| HTB-52I                                     | F              | J             |
| HTB-54I                                     | F              | K             |
| HTB-54M                                     | F              | L             |
| HTB-56I                                     | F              | M             |
| HTB-58I                                     | F              | M             |
| HTB-92I                                     | G              | J             |
| HTB-92M                                     | G              | J             |
| HTB-94I                                     | G              | K             |
| HTB-96I                                     | G              | L             |
| HTB-98I                                     | G              | M             |

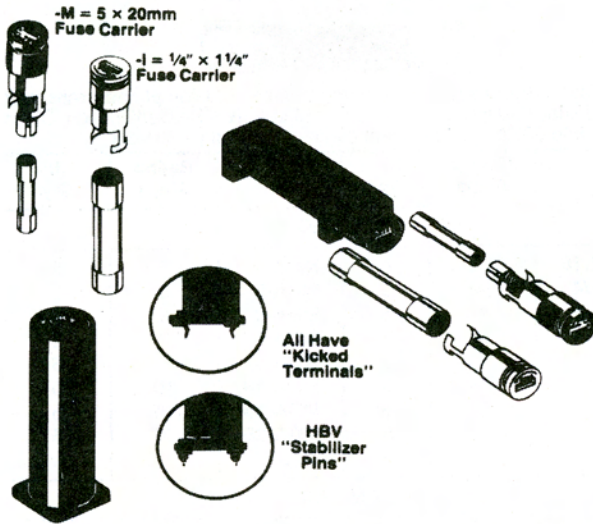
$\frac{1}{4}$ "  $\times$   $1\frac{1}{4}$ " and 5mm  $\times$  20mm Fuse Carriers



All holder bodies have the option of using either  $\frac{1}{4}$ "  $\times$   $1\frac{1}{4}$ " or 5mm  $\times$  20mm carriers. This feature allows the OEM the flexibility of shipping equipment to international destinations simply by changing the fuse carriers.

## HB SERIES PC BOARD MOUNT FUSEHOLDERS

### HORIZONTAL AND VERTICAL MOUNTED

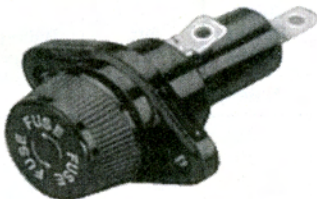


High dielectric molded phenolic body and caps that meet UL94V-0 Flammability Test. Tin plated brass, spring loaded, screwdriver slotted, bayonet type knob and fuse carrier. All series have "Kicked" terminals for stability. HBV series have stabilizer pins for increased stability. Operating Temperature: -40°C to +85°C. Electrical Ratings: **UL**—16A at 250V; **CSA**—12A at 250V; **VDE**—10A at 250V; **SEMKO**—10A at 250V. Insulation resistance: 10,000 megohms at 500 VDC. Contact Resistance: Less than 0.005 ohms at 20mV. Dielectric Strength: Over 200V/mil. UL Recognized, Guide IZLT2, File E14853. CSA Certified, Class 6225-01, File 47235. VDE Approved, 41421. SEMKO Approved, 9308147 (HBH, HBV), 9222106 (HBW). Packaged 10/ctn.

| Mfr. No.                                        | Description                       |
|-------------------------------------------------|-----------------------------------|
| <b>Designed for 1/4" Long x 1/4" Dia. Fuses</b> |                                   |
| HBH-I                                           | Horizontal Mount                  |
| HBV-I                                           | Vertical Mount w/Stability Pins   |
| HBW-I                                           | Vertical Mount w/o Stability Pins |
| <b>Designed for 20mm Long x 5mm Dia. Fuses</b>  |                                   |
| HBH-M                                           | Horizontal Mount                  |
| HBV-M                                           | Vertical Mount w/Stability Pins   |
| HBW-M                                           | Vertical Mount w/o Stability Pins |

## PANEL MOUNT FUSEHOLDERS

### HPF SERIES STANDARD FUSEHOLDERS WITH SCREW-TYPE KNOB



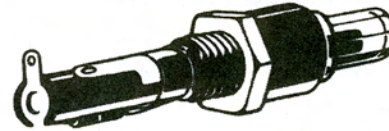
Designed for use with 13/32" dia. x 1 1/16" to 1 1/2" long fuses. UL Recognized, Guide IZLT2, File E14853. CSA Certified, Class 6225-01, File 47235. UL 94V0 Flammability Rating. 10/ctn.

| Mfr. No. | Rating |       | Description                        |
|----------|--------|-------|------------------------------------|
|          | Amps   | Volts |                                    |
| HPF      | 30     | 600   | 1 1/2" Fuses                       |
| HPF-C    | 15     | 250   | 1 1/2" Fuses, Clear Knob           |
| HPF-EE   | 15     | 480   | SC 0-15, 13/32"x1 1/16" Fuses      |
| HPF-FF*  | 30     | 300   | SC 25, SC 30, 13/32"x1 5/8" Fuses  |
| HPF-JJ   | 20     | 480   | SC 20, 13/32"x1 13/32" Fuses       |
| HPF-L    | 5      | 600   | BBS, 13/32"x1 3/8" Fuses           |
| HPF-RR   | 30     | 600   | KTK-R, LP-CC, FNQ-R Class CC Fuses |
| HPF-WT   | 30     | 600   | Splash-Proof Knob                  |

\*Not CSA Certified.

## PANEL MOUNT FUSEHOLDERS

### HK SERIES LAMP INDICATING FUSEHOLDERS



Designed for use with 1/4" long x 1/4" dia. fuses. Voltage Rating: 250V. 10/ctn.

| Mfr. No.                  | Rating Amps | Lamp Volts | Lens Color | Type      |
|---------------------------|-------------|------------|------------|-----------|
| <b>Neon Lamps</b>         |             |            |            |           |
| HKL*                      | 15          | 90-250     | Clear      | Octagon   |
| HKL-X*                    | 15          | 90-250     | Clear      | Flat Side |
| <b>Incandescent Lamps</b> |             |            |            |           |
| HKR                       | 20          | 22-30      | Amber      | Octagon   |
| HKT                       | 20          | 13-22      | Amber      | Octagon   |
| HKU                       | 20          | 4-6        | Red        | Octagon   |
| HKX                       | 20          | 22-33      | Amber      | Flat Side |

\*UL Recognized, Guide IZLT2, File E14853. CSA Certified, Class 6225-01, File 47235.

## HKP SERIES FUSEHOLDERS



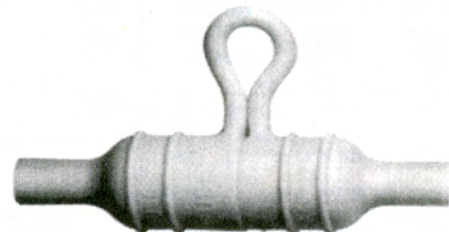
Designed for 1/4" x 1/4" fuses. Bayonet-type knob, vibration resistant for panels up to 3/16" thick. Rating: 30A at 250V. UL Recognized, Guide IZLT2, File E14853. CSA Certified, Class 6225-01, File 47235. 10/ctn.

| Mfr. No. | Description                      |
|----------|----------------------------------|
| HKP      | Standard Fuseholder              |
| HKP-L    | HPK with 2250V Stand-Off Barrier |
| HKP-W    | HPK with Drip-Proof Knob         |
| HKP-HH   | HPK with 1/4" quick connect      |
| HKP-OO   | HPK with snap-lock               |

Note: See HTB Series for enhanced functionality and economy.

## IN-LINE FUSEHOLDERS

### HFB SERIES WATERPROOF FUSEHOLDERS



High visibility yellow one-piece molded thermoplastic rubber body designed for 1/4" Long x 1/4" Dia. fuses. Albaloy plated copper contacts. Accepts 12 to 18 AWG wire leads (not provided). Operating Temperature: -40°C to +150°C. Withstands many organic solvents, shock and vibrations. Voltage Rating: 30A at 32V. Information molded into body. Dimensions: 3" Long x 0.75" Dia. Packaged 10/ctn.

| Mfr. No. | Description            |
|----------|------------------------|
| HFB      | Standard Pack (10-in.) |

## HBB SERIES UNIVERSAL IN-LINE FUSEHOLDERS



Designed for 7/8", 1", 1 1/4" Long x 1/4" Dia. fuses. Nylon body meets UL 94V-0 Flammability Tests. Albaloy plated copper contacts. Accepts 12 to 18 AWG wire leads (not supplied). Fuseholder housing with fuse installed requires minimum of 5 lbs. force to separate. Voltage Rating: 30A at 32V. Packaged 10/ctn.

| Mfr. No. | Description            |
|----------|------------------------|
| HBB      | Standard Pack (10-in.) |



## AGC, AGC-V SERIES FAST ACTING GLASS TUBE FUSES 1/4" LONG x 1/4" DIA.



**AGC**—Glass tube with albaloy plated brass end caps. Packaged 5/ctn.

**AGC-V**—Glass tube with axial leads. Packaged 4/box.

UL Listed 0-10A, Guide JDYX, File E19180. UL Recognized 15-30A, Guide JDYX2, File E19180. CSA Certified, Class 1422-01, File 53787.

### AGC SERIES FUSES

| Mfr. No.                  | Rating Amps | AC/DC* Inter. Rating Amps | Mfr. No.   | Rating Amps | AC/DC* Inter. Rating Amps |
|---------------------------|-------------|---------------------------|------------|-------------|---------------------------|
| <b>Rated 250 VAC/VDC*</b> |             |                           |            |             |                           |
| AGC-1/200                 | 1/200       | 35                        | AGC-1 1/4  | 1 1/4       | 100                       |
| AGC-1/100                 | 1/100       | 35                        | AGC-1 1/2  | 1 1/2       | 100                       |
| AGC-1/32                  | 1/32        | 35                        | AGC-1 5/10 | 1 5/10      | 100                       |
| AGC-1/20                  | 1/20        | 35                        | AGC-1 3/4  | 1 3/4       | 100                       |
| AGC-1/16                  | 1/16        | 35                        | AGC-1 9/10 | 1 9/10      | 100                       |
| AGC-1/10                  | 1/10        | 35                        | AGC-2      | 2           | 100                       |
| AGC-1/8                   | 1/8         | 35                        | AGC-2 1/4  | 2 1/4       | 100                       |
| AGC-15/100                | 15/100      | 35                        | AGC-2 1/2  | 2 1/2       | 100                       |
| AGC-17 1/2/1000           | 17 1/2/1000 | 35                        | AGC-3      | 3           | 100                       |
| AGC-3/16                  | 3/16        | 35                        | AGC-3 3/10 | 3 3/10      | 100                       |
| AGC-2/10                  | 2/10        | 35                        | AGC-3 1/2  | 3 1/2       | 100                       |
| AGC-1/4                   | 1/4         | 35                        | AGC-4      | 4           | 200                       |
| AGC-3/10                  | 3/10        | 35                        | AGC-5      | 5           | 200                       |
| AGC-3/8                   | 3/8         | 35                        | AGC-6      | 6           | 200                       |
| AGC-4/10                  | 4/10        | 35                        | AGC-6 1/4  | 6 1/4       | 200                       |
| AGC-1/2                   | 1/2         | 35                        | AGC-7      | 7           | 200                       |
| AGC-5/10                  | 5/10        | 35                        | AGC-7 1/2  | 7 1/2       | 200                       |
| AGC-3/4                   | 3/4         | 35                        | AGC-8      | 8           | 200                       |
| AGC-5/10                  | 5/10        | 35                        | AGC-9      | 9           | 200                       |
| AGC-1                     | 1           | 35                        | AGC-10     | 10          | 200                       |

### Rated 32 VAC

|        |    |      |        |       |       |
|--------|----|------|--------|-------|-------|
| AGC-12 | 12 | 1000 | AGC-30 | 30    | 1000  |
| AGC-14 | 14 | 1000 | AGC-35 | 35    | 1000  |
| AGC-15 | 15 | 1000 | AGC-40 | 40    | 1000  |
| AGC-20 | 20 | 1000 | AGC-50 | 50    | 1000  |
| AGC-25 | 25 | 1000 | .....  | ..... | ..... |

\*DC ratings are self certified. †Interrupting rating for VAC only.

**Note:** Interrupting ratings were measured at 70% to 80% power factor on AC, and at a time constant described in UL 198L.

### AGC-V SERIES AXIAL LEAD FUSES

| Mfr. No.                  | Rating Amps | AC/DC* Inter. Rating Amps | Mfr. No.    | Rating Amps | AC/DC* Inter. Rating Amps |
|---------------------------|-------------|---------------------------|-------------|-------------|---------------------------|
| <b>Rated 250 VAC/VDC*</b> |             |                           |             |             |                           |
| AGC-V-1/8                 | 1/8         | 35                        | AGC-V-2 1/2 | 2 1/2       | 100                       |
| AGC-V-1/4                 | 1/4         | 35                        | AGC-V-3     | 3           | 100                       |
| AGC-V-1/2                 | 1/2         | 35                        | AGC-V-4     | 4           | 200                       |
| AGC-V-3/4                 | 3/4         | 35                        | AGC-V-5     | 5           | 200                       |
| AGC-V-1                   | 1           | 35                        | AGC-V-6     | 6           | 200                       |
| AGC-V-1 1/4               | 1 1/4       | 100                       | AGC-V-7     | 7           | 200                       |
| AGC-V-1 1/2               | 1 1/2       | 100                       | AGC-V-7 1/2 | 7 1/2       | 200                       |
| AGC-V-1 3/4               | 1 3/4       | 100                       | AGC-V-8     | 8           | 200                       |
| AGC-V-2                   | 2           | 100                       | AGC-V-10    | 10          | 200                       |
| <b>Rated 32 VAC</b>       |             |                           |             |             |                           |
| AGC-V-15                  | 15          | 1000†                     | AGC-V-25    | 25          | 1000†                     |
| AGC-V-20                  | 20          | 1000†                     | AGC-V-30    | 30          | 1000†                     |

\*DC ratings are self certified. †Interrupting Rating VAC only.

**Note:** Interrupting ratings were measured at 70% to 80% power factor on AC, and at a time constant described in UL 198L.

## MDA AND MDA-V PC BOARD & SMALL DIMENSION TIME-DELAY FUSES



Time-Delay fuse constructed of ceramic tube; Albaloy plated brass end caps. UL Listed, Guide JDYX, File E19180, 0-15A. CSA Certification, Class 1422-01, File 53787, 0-15A. Dimensions: 1/4" long x 1/4" dia.

| Mfr. No.       | Rating Amps | Ctn. Qty. | Mfr. No. | Rating Amps | Ctn. Qty. |
|----------------|-------------|-----------|----------|-------------|-----------|
| <b>250 VAC</b> |             |           |          |             |           |
| MDA-2/10       | 2 1/10      | 5         | MDA-4    | 4           | 5         |
| MDA-1/4        | 1/4         | 5         | MDA-5    | 5           | 5         |
| MDA-1/2        | 1/2         | 5         | MDA-6    | 6           | 5         |
| MDA-3/4        | 3/4         | 5         | MDA-7    | 7           | 5         |
| MDA-1          | 1           | 5         | MDA-8    | 8           | 5         |
| MDA-11/2       | 1 1/2       | 5         | MDA-10   | 10          | 5         |
| MDA-2          | 2           | 5         | MDA-15   | 15          | 5         |
| MDA-21/2       | 2 1/2       | 5         | MDA-20   | 20          | 5         |
| MDA-3          | 3           | 5         | .....    | .....       | .....     |

### 125 VAC

|        |    |   |        |    |   |
|--------|----|---|--------|----|---|
| MDA-25 | 25 | 5 | MDA-30 | 30 | 5 |
|--------|----|---|--------|----|---|

### MDA-V SERIES FUSES WITH AXIAL LEAD

| Mfr. No.       | Rating Amps | Ctn. Qty. | Mfr. No. | Rating Amps | Ctn. Qty. |
|----------------|-------------|-----------|----------|-------------|-----------|
| <b>250 VAC</b> |             |           |          |             |           |
| MDA-V-1        | 1           | 4         | MDA-V-10 | 10          | 4         |
| MDA-V-2        | 2           | 4         | MDA-V-12 | 12          | 4         |
| MDA-V-3        | 3           | 4         | MDA-V-15 | 15          | 4         |
| MDA-V-4        | 4           | 4         | MDA-V-20 | 20          | 4         |
| MDA-V-5        | 5           | 4         | MDA-V-30 | 30          | 4         |
| MDA-V-8        | 8           | 4         | .....    | .....       | .....     |

## ABC SERIES FAST ACTING CERAMIC TUBE FUSES 1 1/4" LONG x 1/4" DIA.



UL Listed 0-15A, Guide JDYX, File E19180. UL Recognized 20-25A, Guide JDYX2, File E19180. CSA Certified 0-15A, Class 1422-01, File 53787. CSA Certified 20-25A, Class 1422-30, File 53787. Packaged 5/ctn.

| Mfr. No.             | Rating Amps | AC Inter. Rating Amps | Mfr. No. | Rating Amps | AC Inter. Rating Amps |
|----------------------|-------------|-----------------------|----------|-------------|-----------------------|
| <b>Rated 250 VAC</b> |             |                       |          |             |                       |
| ABC-1/8              | 1/8         | 35                    | ABC-5    | 5           | 200                   |
| ABC-1/4              | 1/4         | 35                    | ABC-6    | 6           | 200                   |
| ABC-1/2              | 1/2         | 35                    | ABC-7    | 7           | 200                   |
| ABC-3/4              | 3/4         | 35                    | ABC-8    | 8           | 200                   |
| ABC-1                | 1           | 35                    | ABC-9    | 9           | 200                   |
| ABC-1 1/2            | 1 1/2       | 100                   | ABC-10   | 10          | 200                   |
| ABC-2                | 2           | 100                   | ABC-12   | 12          | 200                   |
| ABC-2 1/2            | 2 1/2       | 100                   | ABC-15   | 15          | 750                   |
| ABC-3                | 3           | 100                   | ABC-20   | 20          | 400                   |
| ABC-4                | 4           | 200                   | .....    | .....       | .....                 |
| <b>Rated 125 VAC</b> |             |                       |          |             |                       |
| ABC-25               | 25          | 1000                  | ABC-30   | 30          | 1000                  |



**MDL SERIES TIME-DELAY  
GLASS TUBE FUSES  
1 1/4" LONG x 1/4" DIA.**



**MDL**—Glass tube fuse with al-balay plated brass end caps. Packaged 5/ctn.

**MDL-V**—Glass tube fuse with axial leads. Packaged 4/ctn.

UL Listed 1/16-8A, Guide JDYX, File E19180. UL Recognized 8.1-30A, Guide JDYX2, File E19180. CSA Certified 1/16-8A, Class 1422-01, File 53787.

**MDL SERIES FUSES**

| Mfr. No.             | Rating Amps | AC Inter. Rating Amps | Mfr. No.  | Rating Amps | AC Inter. Rating Amps |
|----------------------|-------------|-----------------------|-----------|-------------|-----------------------|
| <b>Rated 250 VAC</b> |             |                       |           |             |                       |
| MDL-1/10             | 1/100       | 35                    | MDL-1 1/4 | 1 1/4       | 100                   |
| MDL-1/32             | 1/32        | 35                    | MDL-1 1/2 | 1 1/2       | 100                   |
| MDL-1/16             | 1/16        | 35                    | MDL-1 3/4 | 1 3/4       | 100                   |
| MDL-1/8              | 1/8         | 35                    | MDL-2     | 2           | 100                   |
| MDL-1/4              | 1/4         | 35                    | MDL-2 1/4 | 2 1/4       | 100                   |
| MDL-3/16             | 3/16        | 35                    | MDL-2 1/2 | 2 1/2       | 100                   |
| MDL-1/2              | 1/2         | 35                    | MDL-2 3/4 | 2 3/4       | 100                   |
| MDL-3/4              | 3/4         | 35                    | MDL-3     | 3           | 100                   |
| MDL-1                | 1           | 35                    | MDL-3 1/2 | 3 1/2       | 100                   |
| MDL-1 1/4            | 1 1/4       | 100                   | MDL-4     | 4           | 200                   |
|                      |             |                       | MDL-5     | 5           | 200                   |
|                      |             |                       | MDL-6     | 6           | 200                   |
|                      |             |                       | MDL-6 1/4 | 6 1/4       | 200                   |
|                      |             |                       | MDL-7     | 7           | 200                   |
|                      |             |                       | MDL-7 1/2 | 7 1/2       | 200                   |
|                      |             |                       | MDL-8     | 8           | 200                   |

**Rated 32 VAC**

|        |    |      |        |       |       |
|--------|----|------|--------|-------|-------|
| MDL-9  | 9  | 1000 | MDL-20 | 20    | 1000  |
| MDL-10 | 10 | 1000 | MDL-25 | 25    | 1000  |
| MDL-12 | 12 | 1000 | MDL-30 | 30    | 1000  |
| MDL-15 | 15 | 1000 | .....  | ..... | ..... |

**MDL-V SERIES AXIAL LEAD FUSES**

| Mfr. No.             | Rating Amps | AC Inter. Rating Amps | Mfr. No. | Rating Amps | AC Inter. Rating Amps |
|----------------------|-------------|-----------------------|----------|-------------|-----------------------|
| <b>Rated 250 VAC</b> |             |                       |          |             |                       |
| MDL-V-1/8            | 1/8         | 35                    | MDL-V-2  | 2           | 100                   |
| MDL-V-1/4            | 1/4         | 35                    | MDL-V-3  | 3           | 100                   |
| MDL-V-1/2            | 1/2         | 35                    | MDL-V-4  | 4           | 200                   |
| MDL-V-1              | 1           | 35                    | MDL-V-5  | 5           | 200                   |
| MDL-V-1 1/4          | 1 1/4       | 100                   | MDL-V-6  | 6           | 200                   |
| MDL-V-1 1/2          | 1 1/2       | 100                   | MDL-V-8  | 8           | 200                   |

**Rated 32 VAC**

|          |    |      |          |       |       |
|----------|----|------|----------|-------|-------|
| MDL-V-10 | 10 | 1000 | MDL-V-20 | 20    | 1000  |
| MDL-V-15 | 15 | 1000 | .....    | ..... | ..... |

**GBB SERIES VERY FAST ACTING,  
CERAMIC CARTRIDGE 250 VAC FUSES**



1 1/4" long x 1/4" dia. Ceramic Cartridge Fuse. Voltage Rating: 250 VAC; 125 VDC. UL Recognized, 1-30A, 125 VDC; 1-30A, 250 VAC.

Guide JFHR2, File E56412. CSA Certified, 1-10A, 125 VDC; 1-10A, 250 VAC, Class 1422-01, File 53787. Package 5/ctn.

| Mfr. No.  | Rating Amps | Mfr. No. | Rating Amps |
|-----------|-------------|----------|-------------|
| GBB-1     | 1           | GBB-8    | 8           |
| GBB-1 1/4 | 1 1/4       | GBB-9    | 9           |
| GBB-2     | 2           | GBB-10   | 10          |
| GBB-3     | 3           | GBB-12   | 12          |
| GBB-4     | 4           | GBB-15   | 15          |
| GBB-5     | 5           | GBB-20   | 20          |
| GBB-6     | 6           | GBB-25   | 25          |
| GBB-7     | 7           | GBB-30   | 30          |

**GDA SERIES FAST ACTING  
HIGH BREAKING CAPACITY 5MM x 20MM CERAMIC  
TUBE FUSES**



Designed to IEC Standards. 0.788" long x 0.197" dia. ceramic tube fuse with nickel or silver plated brass end caps. Interrupting Rating: 1500A at 250 VAC. UL Recognized 50mA and 315mA-6.3A, Guide JDYX2, File E75865. SEMKO Approval 50mA, 200mA and 315mA-6.3A. Packaged 5/ctn.

| Mfr. No.  | Rating Amps | I <sup>2</sup> t | Max. Voltage Drop mV |
|-----------|-------------|------------------|----------------------|
| GDA-50mA  | .050        | 0.0017           | 9000                 |
| GDA-63mA  | .063        | 0.0005           | 3300                 |
| GDA-80mA  | .080        | 0.0011           | 2600                 |
| GDA-100mA | .100        | 0.0018           | 2300                 |
| GDA-125mA | .125        | 0.0037           | 1900                 |
| GDA-160mA | .160        | 0.008            | 1600                 |
| GDA-200mA | .200        | 0.020            | 1350                 |
| GDA-250mA | .250        | 0.027            | 1300                 |
| GDA-315mA | .315        | 0.010            | 1400                 |
| GDA-400mA | .400        | 0.018            | 1200                 |
| GDA-500mA | .500        | 0.038            | 1050                 |
| GDA-630mA | .630        | 0.064            | 1200                 |
| GDA-800mA | .800        | 0.097            | 490                  |
| GDA-1A    | 1.000       | 0.480            | 230                  |
| GDA-1.25A | 1.250       | 0.9              | 200                  |
| GDA-1.6A  | 1.600       | 1.9              | 180                  |
| GDA-2A    | 2.000       | 2.0              | 205                  |
| GDA-2.5A  | 2.500       | 3.9              | 190                  |
| GDA-3.15A | 3.150       | 8.1              | 160                  |
| GDA-4A    | 4.000       | 14.0             | 160                  |
| GDA-5A    | 5.000       | 25.0             | 155                  |
| GDA-6.3A  | 6.300       | 48.0             | 150                  |

**GDB SERIES FAST ACTING  
LOW BREAKING CAPACITY  
5MM x 20MM GLASS TUBE FUSES**



Designed to IEC Standards. 0.788" long x 0.197" dia. glass tube fuse with nickel or silver plated brass end caps. Interrupting Rating: 35A at 250 VAC or 10X rated current. UL Recognized 32mA-6.3A, Guide JDYX2, File E75865. SEMKO Approval. VDE Approval, IMQ. British Standard Approval. Designed to IEC (Pub 127) Sheet III. Packaged 5/ctn.

| Mfr. No.  | Rating Amps | I <sup>2</sup> t | Max. Voltage Drop mV |
|-----------|-------------|------------------|----------------------|
| GDB-32mA  | .032        | 0.000047         | 10000                |
| GDB-40mA  | .040        | 0.00011          | 8000                 |
| GDB-50mA  | .040        | 0.00020          | 3200                 |
| GDB-63mA  | .063        | 0.00057          | 2500                 |
| GDB-80mA  | .080        | 0.0012           | 2200                 |
| GDB-100mA | .100        | 0.003            | 2100                 |
| GDB-125mA | .125        | 0.005            | 2000                 |
| GDB-160mA | .160        | 0.008            | 1950                 |
| GDB-200mA | .200        | 0.016            | 1600                 |
| GDB-250mA | .250        | 0.028            | 1400                 |
| GDB-315mA | .315        | 0.058            | 1150                 |
| GDB-400mA | .400        | 0.018            | 950                  |
| GDB-500mA | .500        | 0.018            | 220                  |
| GDB-630mA | .630        | 0.035            | 220                  |
| GDB-800mA | .800        | 0.067            | 180                  |
| GDB-1A    | 1.000       | 0.60             | 200                  |
| GDB-1.25A | 1.250       | 0.84             | 200                  |
| GDB-1.6A  | 1.600       | 1.6              | 190                  |
| GDB-2A    | 2.000       | 4.2              | 160                  |
| GDB-2.5A  | 2.500       | 6.1              | 145                  |
| GDB-3.15A | 3.150       | 13.0             | 130                  |
| GDB-4A    | 4.000       | 22.0             | 120                  |
| GDB-5A    | 5.000       | 42.0             | 115                  |
| GDB-6.3A  | 6.300       | 69.0             | 110                  |
| GDB-8A    | 8.000*      | .....            | .....                |
| GDB-10A   | 10.000*     | .....            | .....                |

\*IEC Standard 127 Sheet III does not include ratings above 6.3A.

## GMC SERIES MEDIUM TIME-DELAY 5 x 20mm Glass Tube Fuses



Designed to North American Standards. 0.788" Long x 0.197" Dia. glass tube fuse with nickel or silver plated Brass end caps. Designed to UL 198G and CSA 22.2 N59 standards. UL Listed 0-6.3A, Guide JDYX, File E75865. UL Recognized 7-10A, Guide JDYX2, File 75865. CSA Certified 0-6.3A, Class 1422-01, File 65063. Packaged 5/carton.

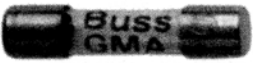
| Mfr. No.                                                                               | Amps | Mfr. No.  | Amps  |
|----------------------------------------------------------------------------------------|------|-----------|-------|
| Rated 250 VAC, p.f.-0.7 to 0.8<br>Breaking Capacity: 35A at 250 VAC; 10000A at 125 VAC |      |           |       |
| GMC-63mA                                                                               | .063 | GMC-400mA | .400  |
| GMC-100mA                                                                              | .100 | GMC-500mA | .500  |
| GMC-125mA                                                                              | .125 | GMC-600mA | .600  |
| GMC-150mA                                                                              | .150 | GMC-630mA | .630  |
| GMC-200mA                                                                              | .200 | GMC-750mA | .750  |
| GMC-250mA                                                                              | .250 | GMC-800mA | .800  |
| GMC-300mA                                                                              | .300 | GMC-1A    | 1.000 |
| GMC-315mA                                                                              | .315 | .....     | ..... |

|                                                                                         |       |           |       |
|-----------------------------------------------------------------------------------------|-------|-----------|-------|
| Rated 250 VAC, p.f.-0.7 to 0.8<br>Breaking Capacity: 100A at 250 VAC; 10000A at 125 VAC |       |           |       |
| GMC-1.5A                                                                                | 1.500 | GMC-2.5A  | 2.500 |
| GMC-1.6A                                                                                | 1.600 | GMC-2.5A  | 2.500 |
| GMC-2A                                                                                  | 2.000 | GMC-3.15A | 3.150 |

|                                                                        |       |        |       |
|------------------------------------------------------------------------|-------|--------|-------|
| Rated 125 VAC, p.f.-0.7 to 0.8<br>Breaking Capacity: 10000A at 125 VAC |       |        |       |
| GMC-3.5A                                                               | 3.500 | GMC-5A | 5.000 |
| GMC-4A                                                                 | 4.000 | GMC-6A | 6.000 |

|                                                               |       |         |        |
|---------------------------------------------------------------|-------|---------|--------|
| Rated 125 VAC, p.f.-1.0<br>Breaking Capacity: 200A at 125 VAC |       |         |        |
| GMC-7A                                                        | 7.000 | GMC-10A | 10.000 |
| GMC-8A                                                        | 8.000 | .....   | .....  |

## GMA SERIES FAST-ACTING 5 x 20mm Glass Tube Fuses



Designed to North American Standards. 0.788" Long x 0.197" Dia. glass tube fuse with nickel or silver plated brass end caps. Designed to UL 198G and CSA 22.2 N59 standards. UL Listed 0-6A, Guide JDYX, File E75865. UL Recognized 7-15A, Guide JDYX2, File 75865. CSA Certified 0-6A, Class 1422-01, File E75865. Packaged 5/carton.

| Mfr. No.                                                                              | Amps | Mfr. No.  | Amps  |
|---------------------------------------------------------------------------------------|------|-----------|-------|
| Rated 250 VAC, p.f.-0.7 to 0.8<br>Breaking Capacity: 35A at 250 VAC; 1000A at 125 VAC |      |           |       |
| GMZ-63mA                                                                              | .063 | GMA-315mA | .315  |
| GMA-100mA                                                                             | .100 | GMA-500mA | .500  |
| GMA-125mA                                                                             | .125 | GMA-600mA | .600  |
| GMA-200mA                                                                             | .200 | GMA-750mA | .750  |
| GMA-250mA                                                                             | .250 | GMA-800mA | .800  |
| GMA-300mA                                                                             | .300 | GMA-1A    | 1.000 |

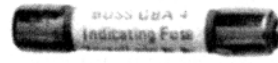
|                                                                                        |       |        |       |
|----------------------------------------------------------------------------------------|-------|--------|-------|
| Rated 125 VAC, p.f.-0.7 to 0.8<br>Breaking Capacity: 100A at 250 VAC; 1000A at 125 VAC |       |        |       |
| GMA-1.25A                                                                              | 1.250 | GMA-2A | 2.000 |
| GMA-1.5A                                                                               | 1.500 | GMA-3A | 3.000 |
| GMA-1.6A                                                                               | 1.600 | .....  | ..... |

|                                                                        |       |        |       |
|------------------------------------------------------------------------|-------|--------|-------|
| Rated 125 VAC, p.f.-0.7 to 0.8<br>Breaking Capacity: 10000A at 125 VAC |       |        |       |
| GMA-3.15A                                                              | 3.150 | GMA-5A | 5.000 |
| GMA-3.5A                                                               | 3.500 | GMA-6A | 6.000 |
| GMA-4A                                                                 | 4.000 | .....  | ..... |

|                                                               |       |        |       |
|---------------------------------------------------------------|-------|--------|-------|
| Rated 125 VAC, p.f.-1.0<br>Breaking Capacity: 200A at 125 VAC |       |        |       |
| GMA-7A                                                        | 7.000 | GMA-8A | 8.000 |

|                                                               |        |         |        |
|---------------------------------------------------------------|--------|---------|--------|
| Rated 125 VAC, p.f.-1.0<br>Breaking Capacity: 150A at 125 VAC |        |         |        |
| GMA-10A                                                       | 10.000 | GMA-15A | 15.000 |

## GBA SERIES FAST ACTING PIN INDICATING FUSES



Fast acting 1/4" Long x 1/4" Dia. pin indicating fuse. Red pin for high visibility. UL Listed 0-5A at 125 VAC; 10,000AIC, Guide JDYX, File E19180. UL Recognized 6A at 125 VAC, 1000AIC; 8-15A at 150 VAC/VDC, 300AIC, Guide JDYX2, File E19180. CSA Certified, Class 1422-01, File 53787.

| Mfr. No.  | Amp   | Mfr. No. | Amp   |
|-----------|-------|----------|-------|
| GBA-1/2   | 1/2   | GBA-4    | 4     |
| GBA-3/4   | 3/4   | GBA-5    | 5     |
| GBA-1     | 1     | GBA-8    | 8     |
| GBA-1 1/2 | 1 1/2 | GBA-10   | 10    |
| GBA-2     | 2     | GBA-15   | 15    |
| GBA-3     | 3     | .....    | ..... |

## AGX SERIES FAST ACTING GLASS TUBE FUSES



1" Long x 1/4" Dia. UL Listed 0-5A, Guide JDYX, File E19180. UL Recognized 6-30A, Guide JDYX2, File E19180, CSA Certified 0-5A, Class 1422-01, File 47233. Package 5/carton.

| Mfr. No.      | Amp   | Mfr. No.  | Amp   |
|---------------|-------|-----------|-------|
| Rated 250 VAC |       |           |       |
| AGX-1/200     | 1/200 | AGX-3/8   | 3/8   |
| AGX-1/100     | 1/100 | AGX-1/2   | 1/2   |
| AGX-1/50      | 1/50  | AGX-3/4   | 3/4   |
| AGX-1/25      | 1/25  | AGX-1     | 1     |
| AGX-1/10      | 1/10  | AGX-1 1/4 | 1 1/4 |
| AGX-1/8       | 1/8   | AGX-1 1/2 | 1 1/2 |
| AGX-3/16      | 3/16  | AGX-2     | 2     |
| AGX-1/4       | 1/4   | .....     | ..... |

|               |       |       |   |
|---------------|-------|-------|---|
| Rated 125 VAC |       |       |   |
| AGX-2 1/2     | 2 1/2 | AGX-4 | 4 |
| AGX-3         | 3     | AGX-5 | 5 |

|              |    |        |    |
|--------------|----|--------|----|
| Rated 32 VAC |    |        |    |
| AGX-6        | 6  | AGX-20 | 20 |
| AGX-7        | 7  | AGX-25 | 25 |
| AGX-8        | 8  | AGX-30 | 30 |
| AGX-10       | 10 | AGX-35 | 35 |
| AGX-15       | 15 | AGX-50 | 50 |

## GDC SERIES TIME-DELAY LOW BREAKING CAPACITY 5mm x 20mm GLASS TUBE FUSES



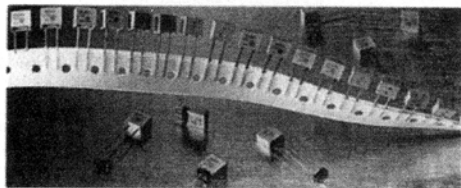
Designed to IEC Standards. 0.788" long x 0.197" dia. glass tube fuse with nickel or silver plated brass end caps. Interrupting Rating: 35A at 250 VAC or 10x rated current. UL Recognized 32mA-6.3A, Guide JDYX2, File E75865. SEMKO Approval. VDE Approval. IMQ. British Standard Approval. Designed to IEC (Pub 127) Sheet III. Packaged 5/carton.

| Mfr. No.  | Rating Amps | I <sup>2</sup> t | Max. Voltage Drop mV |
|-----------|-------------|------------------|----------------------|
| GDC-32mA  | .032        | 0.0014           | 1050                 |
| GDC-40mA  | .040        | 0.0034           | 920                  |
| GDC-50mA  | .050        | 0.006            | 800                  |
| GDC-63mA  | .063        | 0.012            | 760                  |
| GDC-80mA  | .080        | 0.015            | 580                  |
| GDC-100mA | .100        | 0.022            | 490                  |
| GDC-125mA | .125        | 0.034            | 390                  |
| GDC-160mA | .160        | 0.052            | 320                  |
| GDC-200mA | .200        | 0.078            | 340                  |
| GDC-250mA | .250        | 0.17             | 270                  |
| GDC-315mA | .315        | 0.41             | 250                  |
| GDC-400mA | .400        | 0.61             | 210                  |
| GDC-500mA | .500        | 0.75             | 168                  |
| GDC-630mA | .630        | 1.3              | 158                  |
| GDC-800mA | .800        | 3.1              | 132                  |
| GDC-1A    | 1.000       | 3.6              | 85                   |
| GDC-1.25A | 1.250       | 7.0              | 80                   |
| GDC-1.60A | 1.600       | 10.0             | 80                   |
| GDC-2A    | 2.000       | 17.0             | 80                   |
| GDC-2.5A  | 2.500       | 34.0             | 80                   |
| GDC-3.15A | 3.150       | 56.0             | 75                   |
| GDC-4A    | 4.000       | 91.0             | 75                   |
| GDC-5A    | 5.000       | 133.0            | 75                   |
| GDC-6.3A  | 6.300       | 270.0            | 65                   |



## PC-TRON® PC BOARD FUSE

SUBMINIATURE FUSES .350" × 0.350" × 0.184"



Constructed of high temperature plastic. Leads: 0.020" × 0.015" × 0.100" (short); 0.020" × 0.015" × 0.750" (full). AC Interrupting Rating: 1/2A to 3A—50A at 250V, 10kA at 125V; 5A—10kA at 125V. DC Interrupting Rating: 1/2A to 2 1/2A—5900A at 300V; 2 1/2A to 3A—4400A at 300V; 5A—4200A at 300V. Carry 100% of rating for 4 hrs. min. Open at 200% of rating in 10 sec. max. UL Recognized PCB, PCC, PCD, PCE and PCH; Guide JDYX2, File E19180. CSA Certified PCB, PCC, PCD, PCE and PCH; Class 1421-01, File 42731. Suitable for line-side protection of power supplies. Packaged 5/ctn.

| Mfr.<br>No.               | Rating<br>Amps | Rating |     |
|---------------------------|----------------|--------|-----|
|                           |                | DC     | AC  |
| Standard Fuse Full Leads  |                |        |     |
| PCB-1/2                   | 1/2            | 250    | 450 |
| PCB-3/4                   | 3/4            | 250    | 450 |
| PCB-1                     | 1              | 250    | 450 |
| PCB-1 1/2                 | 1 1/2          | 250    | 450 |
| PCB-2                     | 2              | 250    | 450 |
| PCB-2 1/2                 | 2 1/2          | 250    | 450 |
| PCB-3                     | 3              | 250    | 350 |
| Short Leads               |                |        |     |
| PCC-1/2                   | 1/2            | 250    | 450 |
| PCC-3/4                   | 3/4            | 250    | 450 |
| PCC-1                     | 1              | 250    | 450 |
| PCC-1 1/2                 | 1 1/2          | 250    | 450 |
| PCC-2                     | 2              | 250    | 450 |
| PCC-2 1/2                 | 2 1/2          | 250    | 450 |
| PCC-3                     | 3              | 250    | 350 |
| Standard Fuse Short Leads |                |        |     |
| PCD-5                     | 5              | 125    | 250 |
| Standard Fuse Short Lead  |                |        |     |
| PCE-5                     | 5              | 125    | 250 |
| Surface Mount Fuse        |                |        |     |
| PCH-1/2                   | 1/2            | 250    | 350 |

## TYPE 70 SERIES INDICATING TELECOMMUNICATIONS FUSES

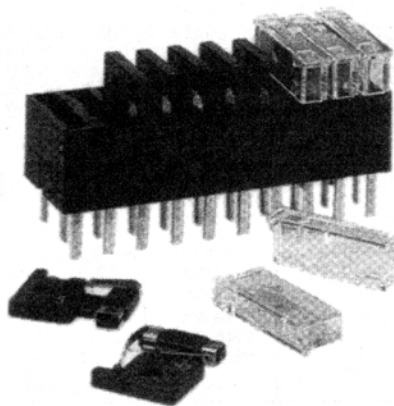


Voltage Rating: 125 VAC, 300 VDC. Designed for use with 15087 fuseholder. UL Recognized, Guide JDYX2, File E19180. Bellcore.

| Mfr. No.      | Rating Amps | Color Code | AT & T Comcode Ref. No. |
|---------------|-------------|------------|-------------------------|
| 70A-1 1/3A*   | 1 1/3       | White      | 100203322               |
| 70B-2A*       | 2           | Orange     | 100203330               |
| 70C-3A*       | 3           | Blue       | 100203348               |
| 70D-5A*       | 5           | Grn/Blk    | 100203355               |
| 70E-1 1/100A* | 1 1/100     | Yellow     | 100203363               |
| 70F-1/4A*     | 1/4         | Violet     | 100203371               |
| 70G-1/2A*     | 1/2         | Red        | 100203389               |
| 70H-3/4A*     | 3/4         | Brown      | 100203397               |
| 70I-1A        | 1           | Pink       | .....                   |
| 70J-3 1/2A    | 3 1/2       | Blk/Wht    | .....                   |
| 70K-1/4A*     | 1/4         | Violet/Wht | 100203405               |
| 70L-6A        | 6           | Grn/Wht    | .....                   |
| 70M-8A        | 8           | Brown/Wht  | .....                   |
| 70N-10A       | 10          | Violet/Yel | .....                   |
| 70P-1/10A*    | 1/10        | Gray/Wht   | 100203413               |
| 70R-1 1/100A* | 1 1/100     | Red/Wht    | 101384550               |
| 70X-3/10A     | 3/10        | Black      | .....                   |
| 72A-Dummy     | .....       | .....      | 103757977               |

\*Designed to comply with Bellcore Technical Reference TR- TSY-000799, Issue 1, December 1988.

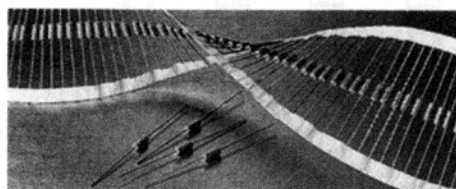
## GMT SERIES FAST ACTING, INDICATING FUSES



Designed for use with HLT, HLS and PCT fuseholders. Voltage Rating: 60V DC, 125 VAC. Interrupting Rating: 450A at 60 VDC, 300A at 125 VAC. Thermoplastic body meets UL 94V-0 Flammability Test. Beryllium copper terminals. UL Recognized, Guide JFHR2, File E56412. Packaged 10/ctn.

| Mfr. No.    | Rating Amps | Eyelets Color Code |
|-------------|-------------|--------------------|
| GMT-1 1/100 | 1 1/100     | Yellow             |
| GMT-1/4     | 1/4         | Violet             |
| GMT-1/2     | 1/2         | Red                |
| GMT-65/100  | 65/100      | Black              |
| GMT-3/4     | 3/4         | Brown              |
| GMT-1       | 1           | Gray               |
| GMT-1 1/3   | 1 1/3       | White              |
| GMT-1 1/2   | 1 1/2       | White/Yellow       |
| GMT-2       | 2           | Orange             |
| GMT-3       | 3           | Blue               |
| GMT-3 1/2   | 3 1/2       | White/Blue         |
| GMT-4       | 4           | White/Brown        |
| GMT-5       | 5           | Green              |
| GMT-7 1/2   | 7 1/2       | Black/White        |
| GMT-10      | 10          | Red/White          |
| GMT-Dummy   | .....       | .....              |

## MCR SERIES MICROTRON® SUBMINIATURE FAST ACTING, CURRENT LIMITING FUSES



Solid matrix construction. Rating: 50A at 125 VAC, 300A at 125 VDC. Ratings achieved at 97% power factor. UL Recognized, Guide JDYX2, File E19180. CSA Certified, Class 1422-01, File 53787. JIS (Japanese Industrial Standard) Reg. No. 2221, Authorization No. 32-1516. Available on Tape/Reels with 2500 or 5000 units with 52.4mm spacing (contact distributor for information). Packaged 10/ctn.

| Mfr. No.   | Rating Amps | Rated Max. Voltage |     |
|------------|-------------|--------------------|-----|
|            |             | AC                 | DC  |
| MCR-1/16*  | 1/16        | 125                | 125 |
| MCR-1/8*   | 1/8         | 125                | 125 |
| MCR-1/4*   | 1/4         | 125                | 125 |
| MCR-3/8*   | 3/8         | 125                | 125 |
| MCR-1/2*   | 1/2         | 125                | 125 |
| MCR-3/4*   | 3/4         | 125                | 125 |
| MCR-1†     | 1           | 125                | 125 |
| MCR-1 1/2† | 1 1/2       | 125                | 125 |
| MCR-2†     | 2           | 125                | 125 |
| MCR-2 1/2† | 2 1/2       | 125                | 125 |
| MCR-3†     | 3           | 125                | 125 |
| MCR-3 1/2† | 3 1/2       | 125                | 125 |
| MCR-4†     | 4           | 125                | 125 |
| MCR-5†     | 5           | 125                | 125 |
| MCR-7A‡    | 7           | 60                 | 90  |
| MCR-10A‡   | 10          | 60                 | 90  |

\*CSA and JIS rated. †UR, CSA and JIS rated. ‡UR and CSA rated.

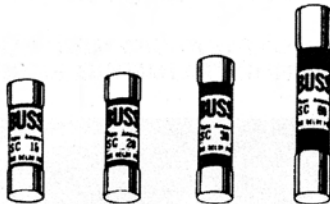
## FNA SERIES DUAL-ELEMENT, PIN INDICATION, TIME-DELAY FUSES



1½" long x 13/32" dia. fuses. Interrupting Rating: 10,000A at 125V. UL Recognized, 0-8A, 10A at 250V, Guide JDYX, File E19180. CSA Certified, 0-10 at 125V, Class 1422-01, File 53787, UL Listed 0-10A at 250V, 1-15A at 125V, Guide JDYX, File 19180. CSA Certified, 0-10A at 250V, 1-10A at 125V, Class 1422-01, File 53787.

| Mfr. No.                | Rating Amps | Ctn. Qty. | Mfr. No.   | Rating Amps | Ctn. Qty. |
|-------------------------|-------------|-----------|------------|-------------|-----------|
| <b>250V or Less</b>     |             |           |            |             |           |
| FNA-1/10                | 1/10        | 10        | FNA-4/10   | 4/10        | 10        |
| FNA-1/8                 | 1/8         | 10        | FNA-1/2    | 1/2         | 10        |
| FNA-15/100              | 15/100      | 10        | FNA-9/10   | 9/10        | 10        |
| FNA-2/10                | 2/10        | 10        | FNA-3/4    | 3/4         | 10        |
| FNA-1/4                 | 1/4         | 10        | FNA-8/10   | 8/10        | 10        |
| FNA-3/10                | 3/10        | 10        | .....      | .....       | .....     |
| <b>125V or Less</b>     |             |           |            |             |           |
| FNA-1                   | 1           | 10        | FNA-3 1/2  | 3 1/2       | 10        |
| FNA-1 1/8               | 1 1/8       | 10        | FNA-4      | 4           | 10        |
| FNA-1 1/4               | 1 1/4       | 10        | FNA-4 1/2  | 4 1/2       | 10        |
| FNA-1 1/10              | 1 1/10      | 10        | FNA-5      | 5           | 10        |
| FNA-1 1/2               | 1 1/2       | 10        | FNA-5 5/10 | 5 5/10      | 10        |
| FNA-1 9/10              | 1 9/10      | 10        | FNA-6      | 6           | 10        |
| FNA-1 1/10              | 1 1/10      | 10        | FNA-6 1/4  | 6 1/4       | 10        |
| FNA-2                   | 2           | 10        | FNA-7      | 7           | 10        |
| FNA-2 1/4               | 2 1/4       | 10        | FNA-8      | 8           | 10        |
| FNA-2 1/2               | 2 1/2       | 10        | FNA-9      | 9           | 10        |
| FNA-2 9/10              | 2 9/10      | 10        | FNA-10     | 10          | 10        |
| FNA-3                   | 3           | 10        | FNA-12     | 12          | 5         |
| FNA-3 1/10              | 3 1/10      | 10        | FNA-15     | 15          | 5         |
| <b>32 Volts or Less</b> |             |           |            |             |           |
| FNA-20                  | 20          | 5         | FNA-30     | 30          | 5         |
| FNA-25                  | 25          | 5         | .....      | .....       | .....     |

## SC SERIES TIME-DELAY, 480V AC, CLASS G FUSES



25-30A—480V AC, 300V DC; 35-60A—480V AC, 400V DC. Interrupting Rating: 100,000A RMS Symmetrically. Can be used in 120/208V, 120/240V and 227/480V circuits. Branch circuit fuses that pass temporary overloads in fuses above 6A. Minimum opening time of 12 sec. with 200% overload. UL Listed, Class G, Guide JDDZ, File E4273. CSA Certified, Class 1422-01, File 53787.

| Mfr. No.                        | Rating Amps | Ctn. Qty. | Mfr. No. | Rating Amps | Ctn. Qty. |
|---------------------------------|-------------|-----------|----------|-------------|-----------|
| <b>1.319" Long x 0.41" Dia.</b> |             |           |          |             |           |
| SC-1/2                          | 1/2         | 10        | SC-5     | 5           | 10        |
| SC-1                            | 1           | 10        | SC-6     | 6           | 10        |
| SC-1 1/2                        | 1 1/2       | 10        | SC-8     | 8           | 10        |
| SC-2                            | 2           | 10        | SC-10    | 10          | 10        |
| SC-3                            | 3           | 10        | SC-15    | 15          | 10        |
| SC-4                            | 4           | 10        | .....    | .....       | .....     |
| <b>1.419" Long x 0.41" Dia.</b> |             |           |          |             |           |
| SC-20                           | 20          | 10        | .....    | .....       | .....     |
| <b>1.639" Long x 0.41" Dia.</b> |             |           |          |             |           |
| SC-25                           | 25          | 10        | SC-30    | 30          | 10        |
| <b>2.259" Long x 0.41" Dia.</b> |             |           |          |             |           |
| SC-35                           | 35          | 10        | SC-50    | 50          | 10        |
| SC-40                           | 40          | 10        | SC-60    | 60          | 10        |
| SC-45                           | 45          | 10        | .....    | .....       | .....     |

## GMW SERIES PIN BASE FUSES



Carry 100%, open at 200% within 10 sec. or less. Interrupting Rating: 35A at 125V. HWA holder ordered separately. AF knob for fuseholder makes holder waterproof. UL Recognized. Packaged 10/ctn.

| Mfr. No.  | Rating Amps | Mfr. No.  | Rating Amps |
|-----------|-------------|-----------|-------------|
| GMW-1/100 | 1/100       | GMW-4/10  | 4/10        |
| GMW-1/64  | 1/64        | GMW-1/2   | 1/2         |
| GMW-1/32  | 1/32        | GMW-3/4   | 3/4         |
| GMW-1/16  | 1/16        | GMW-1     | 1           |
| GMW-1/10  | 1/10        | GMW-1 1/2 | 1 1/2       |
| GMW-1/8   | 1/8         | GMW-2     | 2           |
| GMW-2/10  | 2/10        | GMW-3     | 3           |
| GMW-1/4   | 1/4         | GMW-4     | 4           |
| GMW-3/10  | 3/10        | GMW-5     | 5           |

## GLR SERIES FAST ACTING, NON-REJECTING FUSES



Fast acting, non-rejecting fuse contained in cap for use with HLR Fuseholder. Interrupting Rating: 10,000A. UL Listed 0-15A; Guide JDYX, File E19180. CSA Certified 0-10A; Class 1422-01, File 53787. 5/ctn.

| Mfr. No.   | Rating Amps | Mfr. No. | Rating Amps |
|------------|-------------|----------|-------------|
| GLR-1/2    | 1/2         | GLR-6    | 6           |
| GLR-1      | 1           | GLR-7    | 7           |
| GLR-1 1/2  | 1 1/2       | GLR-8    | 8           |
| GLR-1 5/10 | 1 5/10      | GLR-9    | 9           |
| GLR-2      | 2           | GLR-10   | 10          |
| GLR-3      | 3           | GLR-12   | 12          |
| GLR-4      | 4           | GLR-15   | 15          |
| GLR-5      | 5           | .....    | .....       |

## FNQ SERIES TIME-DELAY FUSES 500 VAC, (5 AG SIZE)



1½" long x 13/32" dia. fibre tube fuse. Interrupting Rating: 10,000A. UL Listed, Guide JDYX, File E19180. CSA Certified, Class 1422-01, File 53787. 10/ctn.

| Mfr. No.   | Rating Amps | Mfr. No.   | Rating Amps |
|------------|-------------|------------|-------------|
| FNQ-1/10   | 1/10        | FNQ-3      | 3           |
| FNQ-1/8    | 1/8         | FNQ-3 1/10 | 3 1/10      |
| FNQ-15/100 | 15/100      | FNQ-3 1/2  | 3 1/2       |
| FNQ-3/16   | 3/16        | FNQ-4      | 4           |
| FNQ-2/10   | 2/10        | FNQ-4 1/2  | 4 1/2       |
| FNQ-1/4    | 1/4         | FNQ-5      | 5           |
| FNQ-3/10   | 3/10        | FNQ-5 5/10 | 5 5/10      |
| FNQ-4/10   | 4/10        | FNQ-6      | 6           |
| FNQ-1/2    | 1/2         | FNQ-6 1/4  | 6 1/4       |
| FNQ-5/10   | 5/10        | FNQ-7      | 7           |
| FNQ-9/10   | 9/10        | FNQ-8      | 8           |
| FNQ-1      | 1           | FNQ-9      | 9           |
| FNQ-1 1/8  | 1 1/8       | FNQ-10     | 10          |
| FNQ-1 1/4  | 1 1/4       | FNQ-12     | 12          |
| FNQ-1 1/2  | 1 1/2       | FNQ-14     | 14          |
| FNQ-1 5/10 | 1 5/10      | FNQ-15     | 15          |
| FNQ-2      | 2           | FNQ-20     | 20          |
| FNQ-2 1/4  | 2 1/4       | FNQ-25     | 25          |
| FNQ-2 1/2  | 2 1/2       | FNQ-30     | 30          |

## KTK-R SERIES LIMITRON® FAST ACTING 600 VAC FUSES



1½ long x 13/32" dia. branch circuit fuse. Melamine Tube. Interrupting Rating: 200,000A. UL Listed, Guide JDDZ, File E4273, CSA Certified, File 53787, Class 1422-02, HRCI-CC. Class CC rejection feature. 10/ctn.

| Mfr. No.    | Rating Amps | Mfr. No.    | Rating Amps |
|-------------|-------------|-------------|-------------|
| KTK-R-1/10  | 1/10        | KTK-R-3 1/2 | 3 1/2       |
| KTK-R-1/8   | 1/8         | KTK-R-4     | 4           |
| KTK-R-3/10  | 3/10        | KTK-R-5     | 5           |
| KTK-R-1/4   | 1/4         | KTK-R-6     | 6           |
| KTK-R-3/10  | 3/10        | KTK-R-7     | 7           |
| KTK-R-1/2   | 1/2         | KTK-R-8     | 8           |
| KTK-R-3/4   | 3/4         | KTK-R-9     | 9           |
| KTK-R-1     | 1           | KTK-R-10    | 10          |
| KTK-R-1 1/2 | 1 1/2       | KTK-R-12    | 12          |
| KTK-R-2     | 2           | KTK-R-15    | 15          |
| KTK-R-2 1/2 | 2 1/2       | KTK-R-20    | 20          |
| KTK-R-3     | 3           | KTK-R-25    | 25          |
|             |             | KTK-R-30    | 30          |

## FNQ-R SERIES TIME-DELAY, REJECTION TYPE, 600 VAC, CLASS CC FUSES



1½" long x 13/32" dia. Fibre tube fuse. Interrupting Rating: 200,000A RMS Symmetrical. UL Listed, Class CC, Guide JDDZ, File E4273, CSA Certified, Class 1422-01, File 53787 HRCI-CC. 10/ctn.

| Mfr. No.     | Rating Amps | Mfr. No.     | Rating Amps |
|--------------|-------------|--------------|-------------|
| FNQ-R-1/4    | 1/4         | FNQ-R-2      | 2           |
| FNQ-R-3/10   | 3/10        | FNQ-R-2 1/4  | 2 1/4       |
| FNQ-R-1/2    | 1/2         | FNQ-R-2 1/2  | 2 1/2       |
| FNQ-R-3/10   | 3/10        | FNQ-R-2 3/10 | 2 3/10      |
| FNQ-R-1/4    | 1/4         | FNQ-R-3      | 3           |
| FNQ-R-3/10   | 3/10        | FNQ-R-3 1/2  | 3 1/2       |
| FNQ-R-1      | 1           | FNQ-R-4      | 4           |
| FNQ-R-1 1/8  | 1 1/8       | FNQ-R-5      | 5           |
| FNQ-R-1 1/4  | 1 1/4       | FNQ-R-6      | 6           |
| FNQ-R-1 3/10 | 1 3/10      | FNQ-R-6 1/4  | 6 1/4       |
| FNQ-R-1 1/2  | 1 1/2       | FNQ-R-7 1/2  | 7 1/2       |
| FNQ-R-1 1/2  | 1 1/2       | FNQ-R-8      | 8           |
| FNQ-R-1 3/10 | 1 3/10      | FNQ-R-9      | 9           |
| FNQ-R-1 3/10 | 1 3/10      | FNQ-R-10     | 10          |

## LP-CC LOW-PEAK®, TIME-DELAY, CURRENT LIMITING 600 VAC, CLASS CC - REJECTION TYPE FUSES



1½" long x 13/32" dia. fuse. Interrupting Rating: 200,000A RMS Symmetrical, 20,000A DC. UL Listed Class CC, Guide JDDZ, File E4273, 20,000 AIR, 150 V DC or less, 20,000 AIR, 3-15A. CSA Certified HRCI-CC; Class 1422-02, File 53787. Packaged 10/carton.

| Mfr. No.     | Rating Amps | Mfr. No.     | Rating Amps |
|--------------|-------------|--------------|-------------|
| LP-CC-1/2    | 1/2         | LP-CC-4      | 4           |
| LP-CC-3/10   | 3/10        | LP-CC-4 1/2  | 4 1/2       |
| LP-CC-1/4    | 1/4         | LP-CC-5      | 5           |
| LP-CC-1      | 1           | LP-CC-5 1/10 | 5 1/10      |
| LP-CC-1 1/8  | 1 1/8       | LP-CC-6      | 6           |
| LP-CC-1 1/4  | 1 1/4       | LP-CC-6 1/4  | 6 1/4       |
| LP-CC-1 1/10 | 1 1/10      | LP-CC-7      | 7           |
| LP-CC-1 1/2  | 1 1/2       | LP-CC-7 1/2  | 7 1/2       |
| LP-CC-1 3/10 | 1 3/10      | LP-CC-8      | 8           |
| LP-CC-1 3/10 | 1 3/10      | LP-CC-9      | 9           |
| LP-CC-2      | 2           | LP-CC-10     | 10          |
| LP-CC-2 1/4  | 2 1/4       | LP-CC-12     | 12          |
| LP-CC-2 1/2  | 2 1/2       | LP-CC-15     | 15          |
| LP-CC-2 3/10 | 2 3/10      | LP-CC-20     | 20          |
| LP-CC-3      | 3           | LP-CC-25     | 25          |
| LP-CC-3 1/10 | 3 1/10      | LP-CC-30     | 30          |
| LP-CC-3 1/2  | 3 1/2       |              |             |

## LP-CC SERIES VIEW PACKED 3/PACKAGE

| Mfr. No.    | Rating Amps | Mfr. No.    | Rating Amps |
|-------------|-------------|-------------|-------------|
| LP-CC-3-VP  | 3           | LP-CC-12-VP | 12          |
| LP-CC-4-VP  | 4           | LP-CC-15-VP | 15          |
| LP-CC-5-VP  | 5           | LP-CC-20-VP | 20          |
| LP-CC-6-VP  | 6           | LP-CC-25-VP | 25          |
| LP-CC-10-VP | 10          | LP-CC-30-VP | 30          |

## KTK SERIES LIMITRON® FAST ACTING, 600 VAC FUSES



1½ long x 13/32" dia. Melamine Tube, Albaloy plated brass endcaps. Interrupting Rating: 100,000A RMS symmetrical. UL Listed, Guide JDYX, File #19180, CSA Certified, File 53787, Class 1422-01, HRC-Misc. 10/ctn.

| Mfr. No.  | Rating Amps | Mfr. No.  | Rating Amps |
|-----------|-------------|-----------|-------------|
| KTK-1/10  | 1/10        | KTK-5     | 5           |
| KTK-1/8   | 1/8         | KTK-6     | 6           |
| KTK-3/10  | 3/10        | KTK-7     | 7           |
| KTK-1/4   | 1/4         | KTK-7 1/2 | 7 1/2       |
| KTK-3/10  | 3/10        | KTK-8     | 8           |
| KTK-1/2   | 1/2         | KTK-9     | 9           |
| KTK-3/10  | 3/10        | KTK-10    | 10          |
| KTK-1     | 1           | KTK-12    | 12          |
| KTK-1 1/4 | 1 1/4       | KTK-15    | 15          |
| KTK-1 1/2 | 1 1/2       | KTK-20    | 20          |
| KTK-2     | 2           | KTK-25    | 25          |
| KTK-2 1/2 | 2 1/2       | KTK-30    | 30          |
| KTK-3     | 3           | KTK-35    | 35          |
| KTK-3 1/2 | 3 1/2       | KTK-40    | 40          |
| KTK-4     | 4           | KTK-45    | 45          |
|           |             | KTK-50    | 50          |

## FNM SERIES FUSETRON® TIME-DELAY FIBRE TUBE FUSES 1½" LONG x 13/32" DIA. (5 AG SIZE)



UL Listed 0-10A at 250 VAC, 12-15A at 125 VAC, Guide JDYX, File E19180. CSA Certified 1-10A at 250 VAC, 12-15A at 125 VAC, Class 1422-01, File 53787. Packaged 10/carton.

| Mfr. No. | Rating Amps | Mfr. No. | Rating Amps |
|----------|-------------|----------|-------------|
|----------|-------------|----------|-------------|

**Rated 250 VAC**  
Interrupting Rating: 35A at 250 VAC, 10,000A at 125 VAC

|            |        |          |      |
|------------|--------|----------|------|
| FNM-1/10   | 1/10   | FNM-4/10 | 4/10 |
| FNM-15/100 | 15/100 | FNM-1/2  | 1/2  |
| FNM-2/10   | 2/10   | FNM-6/10 | 6/10 |
| FNM-1/4    | 1/4    | FNM-8/10 | 8/10 |
| FNM-3/10   | 3/10   | FNM-1    | 1    |

**Rated 250 VAC**  
Interrupting Rating: 100A at 250 VAC, 10,000A at 125 VAC

|           |        |           |        |
|-----------|--------|-----------|--------|
| FNM-11/8  | 1 1/8  | FNM-21/4  | 2 1/4  |
| FNM-11/4  | 1 1/4  | FNM-21/2  | 2 1/2  |
| FNM-14/10 | 1 4/10 | FNM-28/10 | 2 8/10 |
| FNM-11/2  | 1 1/2  | FNM-3     | 3      |
| FNM-16/10 | 1 6/10 | FNM-32/10 | 3 2/10 |
| FNM-18/10 | 1 8/10 | FNM-31/2  | 3 1/2  |
| FNM-2     | 2      |           |        |

**Rated 250 VAC**  
Interrupting Rating: 200A at 250 VAC, 10,000A at 125 VAC

|           |        |          |       |
|-----------|--------|----------|-------|
| FNM-4     | 4      | FNM-61/4 | 6 1/4 |
| FNM-41/2  | 4 1/2  | FNM-7    | 7     |
| FNM-5     | 5      | FNM-8    | 8     |
| FNM-56/10 | 5 6/10 | FNM-9    | 9     |
| FNM-6     | 6      | FNM-10   | 10    |

**Rated 125 VAC**  
Interrupting Rating: 10,000A at 125 VAC

|        |    |        |    |
|--------|----|--------|----|
| FNM-12 | 12 | FNM-15 | 15 |
|--------|----|--------|----|

| Rated 32 VAC |    |        |    |
|--------------|----|--------|----|
| FNM-20       | 20 | FNM-35 | 35 |
| FNM-25       | 25 | FNM-40 | 40 |
| FNM-30       | 30 |        |    |

## FNW SERIES FUSETRON TIME DELAY 1½" LONG x 13/32" DIA. 250 VAC FUSES

Designed for motor control transformers where high inrush currents are present during motor start-up. Interrupting Rating: 10,000 AIC at 250V. Package 10/ctn.

| Mfr. No. | Rating Amps | Mfr. No. | Rating Amps |
|----------|-------------|----------|-------------|
| FNW-12   | 12          | FNW-25   | 25          |
| FNW-15   | 15          | FNW-30   | 30          |
| FNW-20   | 20          |          |             |