



Semiconductor (AC) fuses

American Round Fuses Form 101 Range A60Q



Semiconductor Protection Fuses

A60Q Amp-trap® Form 101 Semiconductor Protection fuses feature the only 600 volt AC/DC rating in the industry of similar size (1-1/2" x 13/32") fuses protecting semiconductors. A60Q also has the lowest I²t of all similar fuses and excellent cycling ability. Applications include inverters and small equipment requiring extremely fast response to faults, without the need to carry sustained heavy overloads.

Features/Benefits

- Lowest I²t of any fuse this size for greater protection
 - Excellent cycling ability gives advantage in equipment design
 - 600V AC/DC rated

Ratings

- AC: 5-40A
600VAC, 200kA I.R.
- DC: 5-40A
600VDC, 100kA I.R.
L/R = 10ms

Approvals

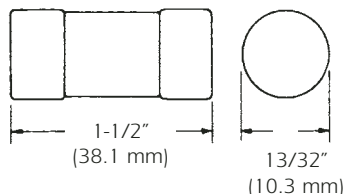
- UL Recognized Component
- AC: UL Guide JFHR2
File E60314
- DC : UL File
E60314

Highlights

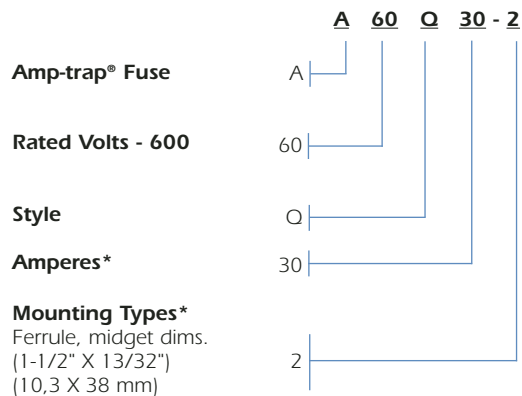
- 600VAC/DC Rated
- Extremely Fast Acting
- Current Limiting
- Lowest I²t
- Excellent Cycling Ability

Applications

- Protection of small inverters and drives, and equipment requiring the highest degree of protection



Catalog Numbering System



Fuse holders for A60Q fuses

- USM Series .Ultrasafe™ Fuse Holders
- 303 Series .Midget Fuse Blocks

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**I²t at 600VDC,
100kA, L/R = 10 ms**

| Ampere Rating | Clearing I ² t (A ² s) |
|---------------|--|
| 5 | 40 |
| 8 | 42 |
| 10 | 70 |
| 12 | 90 |
| 15 | 110 |
| 20 | 200 |
| 25 | 260 |
| 30 | 520 |
| 35 | 780 |
| 40 | 1100 |

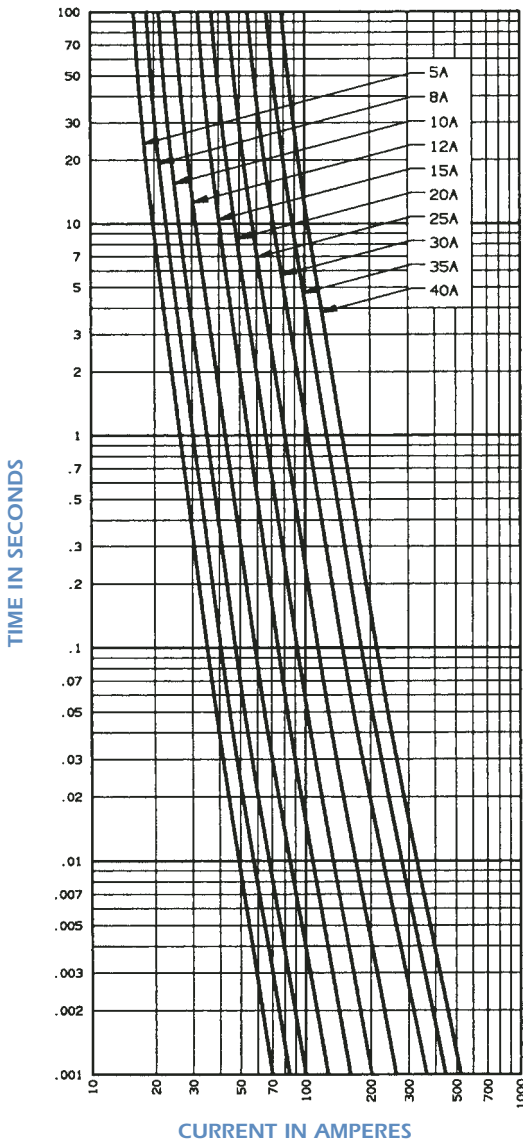
**I²t at 600VAC,
100kA**

| Ampere Rating | Melting I ² t (A ² s) | Clearing I ² t (A ² s) |
|---------------|---|--|
| 5 | 5 | 60 |
| 8 | 6.5 | 70 |
| 10 | 10 | 110 |
| 12 | 17 | 150 |
| 15 | 26 | 180 |
| 20 | 41 | 330 |
| 25 | 69 | 440 |
| 30 | 132 | 860 |
| 35 | 197 | 1300 |
| 40 | 276 | 1800 |

Watts Loss Data

| Ampere Rating | Watts Loss @ 80% Rating (W) | Watts Loss @ 100% Rating (W) |
|---------------|-----------------------------|------------------------------|
| 5 | 0.5 | 0.7 |
| 8 | 0.7 | 1.1 |
| 10 | 0.9 | 1.5 |
| 12 | 1.3 | 2.0 |
| 15 | 1.9 | 3.0 |
| 20 | 2.6 | 4.4 |
| 25 | 2.9 | 5.3 |
| 30 | 3.0 | 5.8 |
| 35 | 3.3 | 6.4 |
| 40 | 3.6 | 7.0 |

5 to 40A Melting Time - Current Data, 600V Fuses



Standard Fuse Ampere ratings, catalog and reference Numbers

| Ampere Rating | Catalog Number | Reference Number | Ampere Rating | Catalog Number | Reference Number |
|---------------|----------------|------------------|---------------|----------------|------------------|
| 5 | A60Q5-2 | E217400 | 20 | A60Q20-2 | B214338 |
| 6 | A60Q6-2 | M217913 | 25 | A60Q25-2 | Z214842 |
| 8 | A60Q8-2 | T218425 | 30 | A60Q30-2 | E215859 |
| 10 | A60Q10-2 | Z212289 | 35 | A60Q35-2 | J216369 |
| 12 | A60Q12-2 | M212807 | 40 | A60Q40-2 | E218879 |
| 15 | A60Q15-2 | X213322 | | | |

For ampere ratings and styles not listed, ask sales agent

Peak Let-Thru Current Data - 5 to 40A, 600 Volts AC

