



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

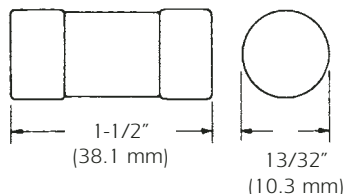
- UL Recognized Component
- AC: UL Guide JFHR2
File E60314
- DC : UL File
E60314

Highlights

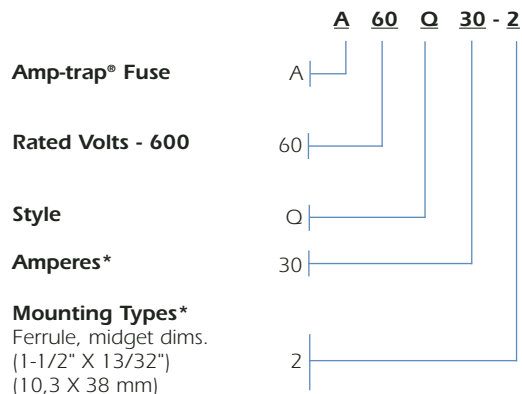
- 600VAC/DC Rated
- Extremely Fast Acting
- Current Limiting
- Lowest I²t
- Excellent Cycling Ability

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

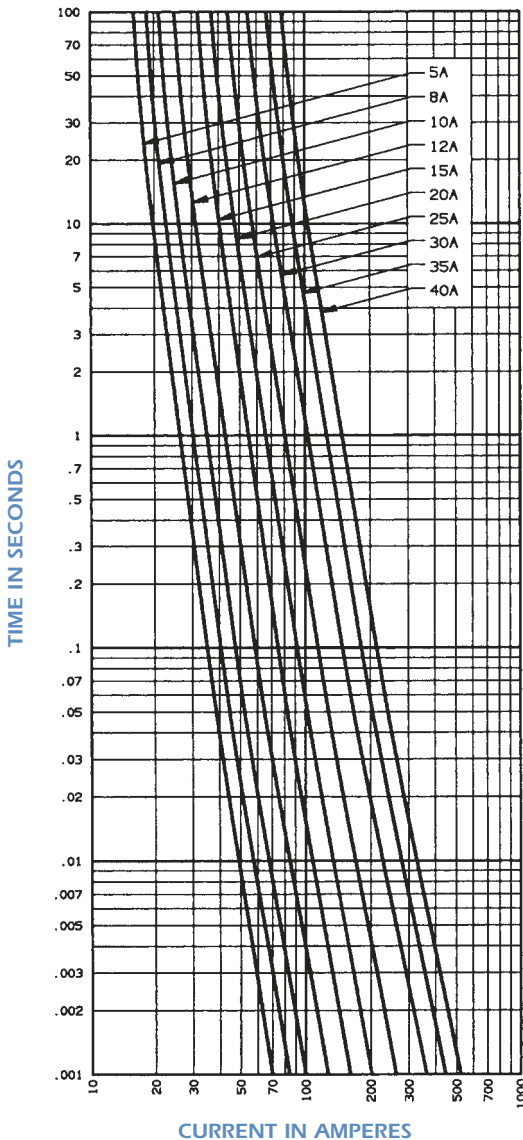
**I²t at 600VAC,
100kA**

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	A60Q5-2	E217400	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

