

AMP-TRAP®-Form 101

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 I^2t 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 I^2t** 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:

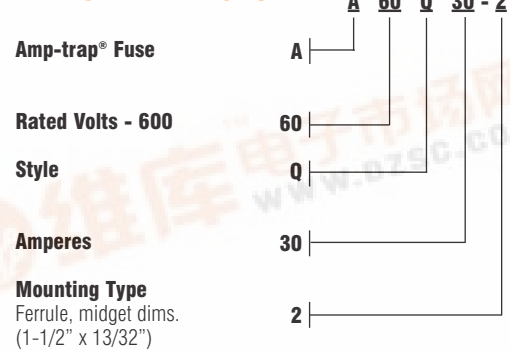
- 600VAC/DC Rated
- Extremely Fast Acting
- Current Limiting
- Lowest I^2t
- Excellent Cycling Ability



APPLICATIONS:

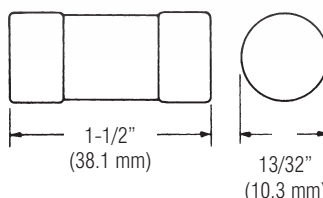
- Protection of small inverters and drives, and equipment requiring the highest degree of protection

Catalog Numbering System



Standard Fuse Ampere Ratings, Catalog Numbers

AMPERE RATING	CATALOG NUMBER	AMPERE RATING	CATALOG NUMBER
5	A60Q5-2	20	A60Q20-2
6	A60Q6-2	25	A60Q25-2
8	A60Q8-2	30	A60Q30-2
10	A60Q10-2	35	A60Q35-2
15	A60Q15-2	40	A60Q40-2



FUSE HOLDERS FOR A60Q FUSES

USM SeriesULTRASAFE™ Fuse Holders
303 SeriesMidget Fuse Blocks

A60Q

SEMICONDUCTOR PROTECTION FUSES

I²t at 600VAC, 100kA

AMPERE RATING	MELTING I²t (A²s)	CLEARING I²t (A²s)
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

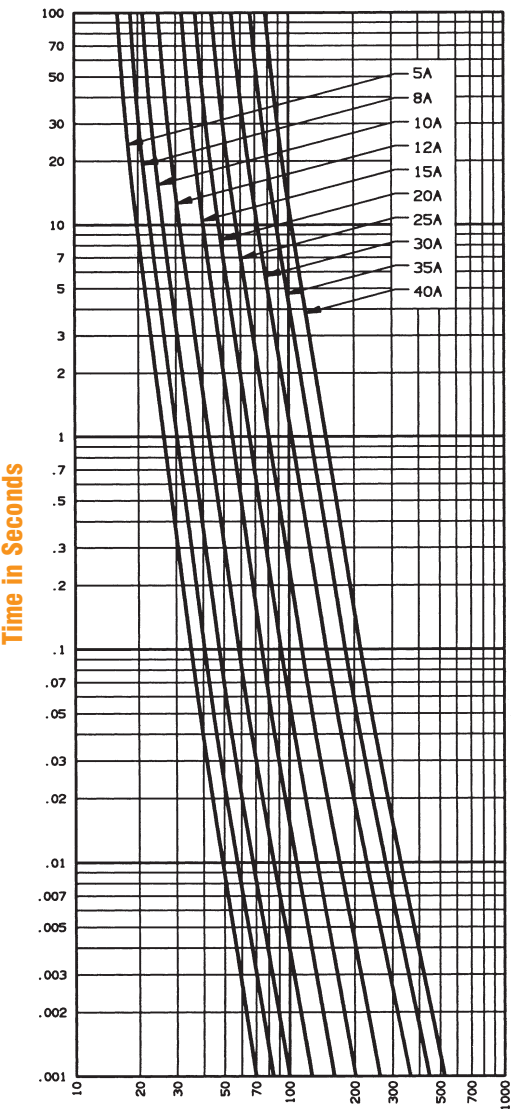
A60Q5 to 40

Watts Loss Data

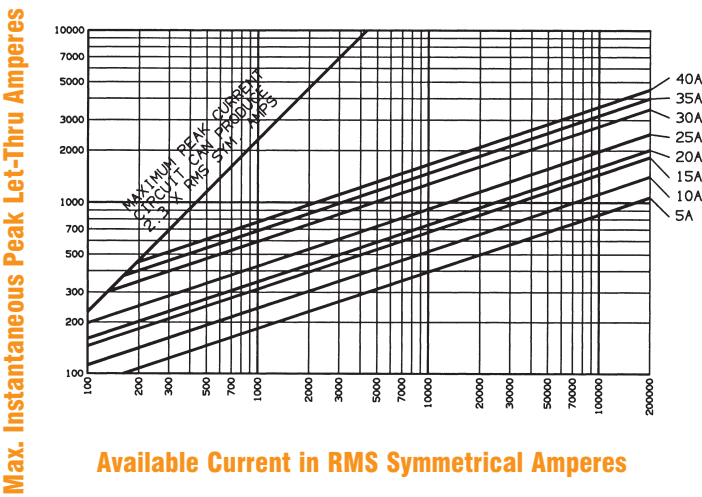
AMPERE RATING	WATTS LOSS @ 80% RATING (W)	WATTS LOSS @ 100% RATING (W)
5	0.5	0.7
8	0.7	1.1
10	0.9	1.5
12	1.3	2.0
15	1.9	3.0
20	2.6	4.4
25	2.9	5.3
30	3.0	5.8
35	3.3	6.4
40	3.6	7.0

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Melting Time – Current Data, 600V Fuses



Peak Let-Thru Current Data – A60Q5 to 40, 600 Volts AC



I²t at 600VDC, 100kA, L/R = 10 ms

AMPERE RATING	CLEARING I²t (A²s)
5	40
8	42
10	70
12	90
15	110
20	200
25	260
30	520
35	780
40	1100