

A60Q Semiconductor Protection Fuses

A60Q Amp-Trap® Form 101 Semiconductor Protection fuses feature the only 600V 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

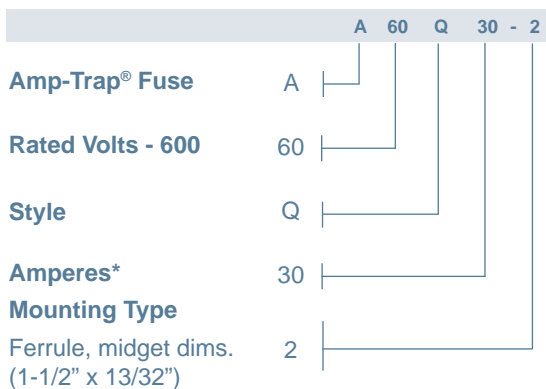
Highlights:

- 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



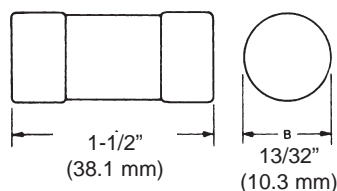
Catalog Numbers (amps)

A60Q5-2	A60Q20-2
A60Q6-2	A60Q25-2
A60Q8-2	A60Q30-2
A60Q10-2	A60Q35-2
A60Q12-2	A60Q40-2
A60Q15-2	

* For ampere ratings and styles not listed, call Technical Services at 978-465-4853.

Fuse Holders for A60Q Fuses

USM SeriesUltraSafe™ Fuse Holders
303 SeriesMidget Fuse Blocks



Ratings:

Volts : 600VAC / DC
Amps : 5 to 40A (AC)
 : 5 to 40A (DC)
I.R. : 200kA I.R. AC
 : 100kA I.R. DC
L/R : 10ms

Approvals:

- UL Recognized component
- AC: UL guide JFHR2
File E60314
- DC: UL file E60314



AC/DC SEMI-CONDUCTOR FUSE

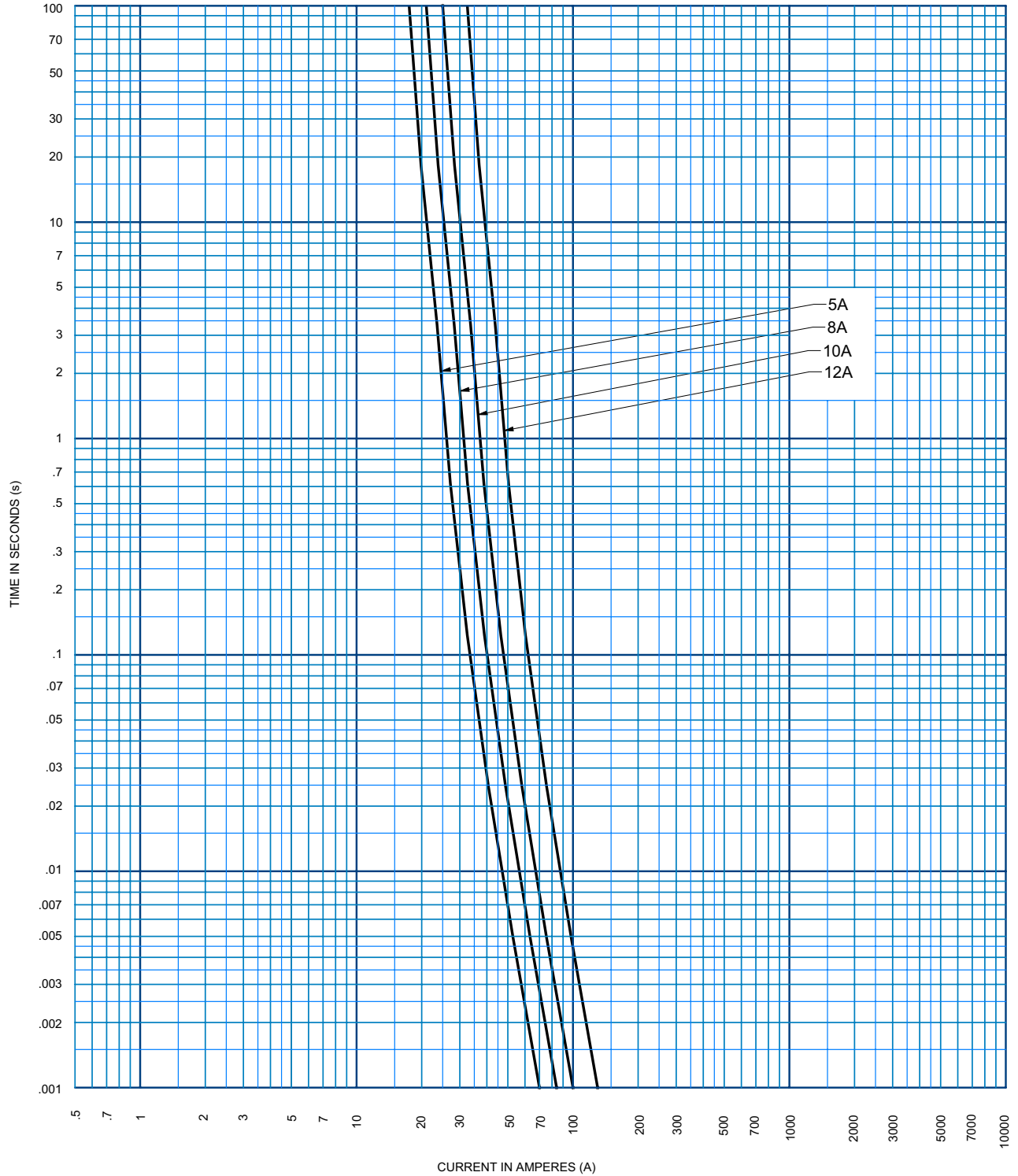
CAT # A60Q(AMP)-2

A 600V

AVERAGE MELTING TIME CURRENT CURVE

FERRAZ SHAWMUT
NEWBURYPORT, MA 01950

106850



AC/DC SEMI-CONDUCTOR FUSE

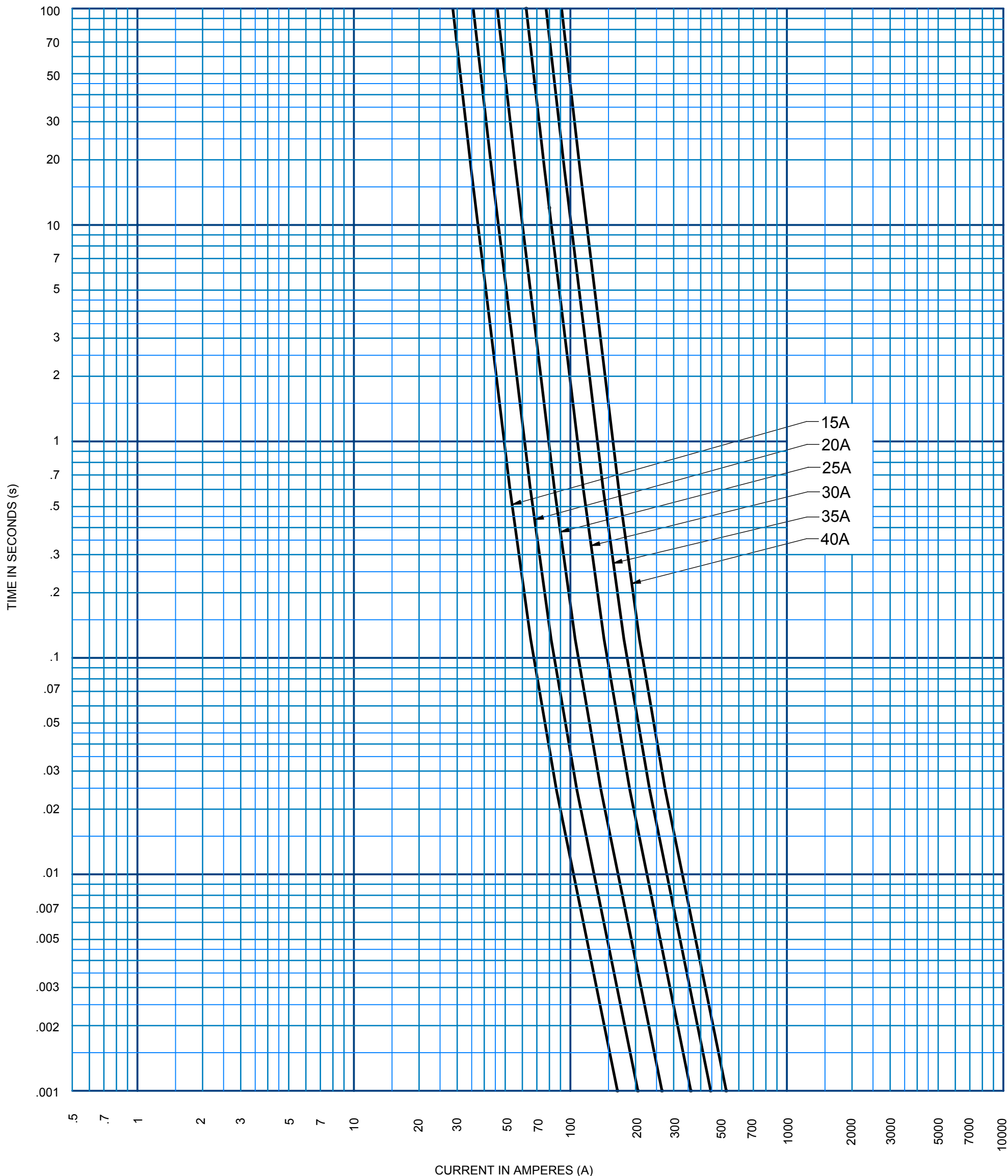
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A 600V

AVERAGE MELTING TIME CURRENT CURVE

FERRAZ SHAWMUT
NEWBURYPORT, MA 01950

720819



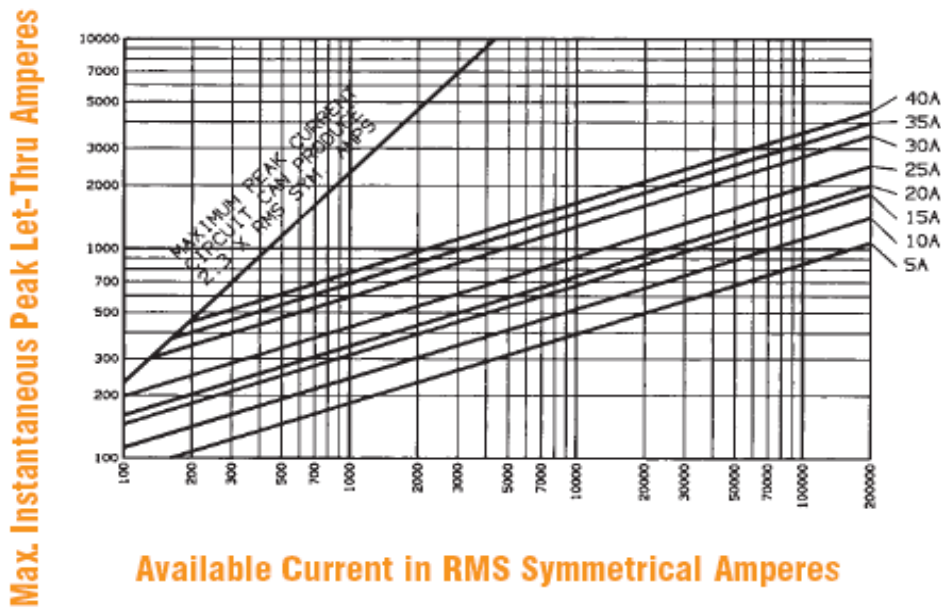
I_t at 600VAC, 100kA

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

I_t 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

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



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

FERRAZ SHAWMUT IS NOW

