

A4BQ

TIME DELAY/CLASS L



HIGHLIGHTS:

- Time Delay
- Industry's Most Current-Limiting Class L Fuse
- Arc Flash mitigating
- Pure Silver Elements
- AC & DC Rated

APPLICATIONS:

- Mains, Feeders
- Large Motors
- Lighting, Heating & General Loads
- Circuit Breaker Back-up
- DC Rated: UPS DC
- Links, Battery Disconnects, Other DC Applications

*Please contact factory for special trigger actuator



PUT THE HIGHEST CURRENT-LIMITATION... AT YOUR SERVICE.

Amp-trap 2000® A4BQ fuses are 20% more current limiting than *any* other Class L fuse on the market. When correctly coordinated, they bring a superior level of protection to service entrance equipment. Downstream circuit components have maximum protection against short circuit let-thru current. A4BQ's built-in, 4-second time delay characteristic (at 500% of rated current) accommodates harmless inrush currents with no nuisance opening.

A

Features/Benefits

- **Fastest operation under short circuit conditions:** Let-thru currents are typically 20% lower, with a corresponding let-thru energy (clearing I²t) up to 40% lower than the next fastest Class L fuse
- **Time delay for high inrush loads** such as motors and transformers, without nuisance opening
- **300kA interrupting rating** - self-certified, UL witnessed tests
- **Most current limiting** for lowest peak let-thru current; even at fault currents up to 300kA
- **Recommended for Arc Flash energy reduction**
- **Pure silver links** ensure lowest let-thru current and longer fuse life
- **Easy 2-to-1 selectivity** for prevention of nuisance shutdowns and "blackouts"
- **Rejection-style design** prevents replacement errors
- **High-visibility orange label** gives instant recognition
- **Reduced inventory** because A4BQ can replace all older types of Class L fuses now in service
- **Metal-embossed** date and catalog number for traceability and lasting identification
- **Fiberglass body** provides dimensional stability in harsh industrial settings
- **High-grade silica filler** ensures fast arc quenching

Ratings

- **AC:** 100 to 6000A
600VAC, 200kA I.R.
(self certified for
600VAC, 300kA I.R.,
UL witnessed) 4-
second delay at 500%
rating
- **DC:** 601 to 3000A
500VDC, 100kA I.R.

Approvals

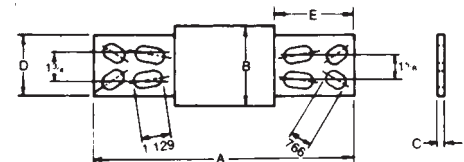
- UL Listed to Standard
248-10 (601-6000A)
File E2137
- DC Listed to UL
Standard 248
(601-3000A)
- CSA Certified to
Standard C22.2
No. 248.10
(601-6000A)

TIME DELAY/CLASS L FUSES

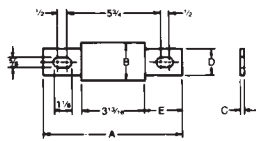
A4BQ

Standard Fuse Ampere Ratings, Catalog Numbers

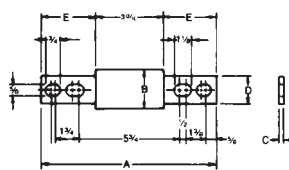
AMPERE RATING	CATALOG NUMBER	AMPERE RATING	CATALOG NUMBER	AMPERE RATING	CATALOG NUMBER	AMPERE RATING	CATALOG NUMBER
100	A4BQ100	500	A4BQ500	1000	A4BQ1000	2000	A4BQ2000
150	A4BQ150	600	A4BQ600	1200	A4BQ1200	2500	A4BQ2500
200	A4BQ200	601	A4BQ601	1350	A4BQ1350	2501	A4BQ2501
250	A4BQ250	650	A4BQ650	1400	A4BQ1400	3000	A4BQ3000
300	A4BQ300	700	A4BQ700	1500	A4BQ1500	3500	A4BQ3500
350	A4BQ350	750	A4BQ750	1600	A4BQ1600	3800	A4BQ3800
400	A4BQ400	800	A4BQ800	1800	A4BQ1800	4000	A4BQ4000
450	A4BQ450	900	A4BQ900	1900	A4BQ1900	5000	A4BQ5000
						6000	A4BQ6000



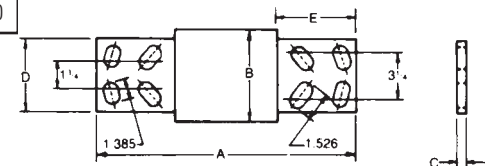
2001-3000A



100-800A



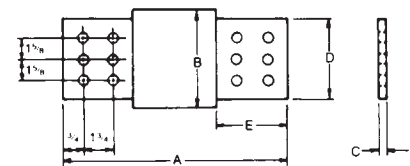
801-2000A



3001-4000A

Dimensions

AMPERE RATING	A		B		C		D		E	
	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm
100-600	8-5/8	219	2	51	5/16	8	1-5/8	41	2-13/32	61
601-800	8-5/8	219	2-1/2	63	3/8	9	2	51	2-13/32	61
801-1200	10-3/4	273	2-1/2	63	3/8	9	2	51	3-15/32	88
1201-1600	10-3/4	273	3	76	7/16	11	2-3/8	60	3-15/32	88
1601-2000	10-3/4	273	3-1/2	89	1/2	12	2-3/4	70	3-15/32	88
2001-2500	10-3/4	273	4-1/2	114	3/4	19	3-1/2	89	3-15/32	88
2501-3000	10-3/4	273	5	127	3/4	19	4	102	3-15/32	88
3001-4000	10-3/4	273	5-3/4	146	3/4	19	4-3/4	121	3-15/32	88
4001-5000	10-3/4	273	6-1/4	159	1	25	5-1/4	133	3-15/32	88
5001-6000	10-3/4	273	7-1/8	181	1	25	5-3/4	146	3-15/32	88



4001-6000A

Safety Note: Class L fuses are dimensioned for one-way interchangeability. A Class L fuse of any lower ampere rating can be substituted for a given Class L fuse.

A4BQ (601 to 6000) Let-Through Current in kilo-Amperes

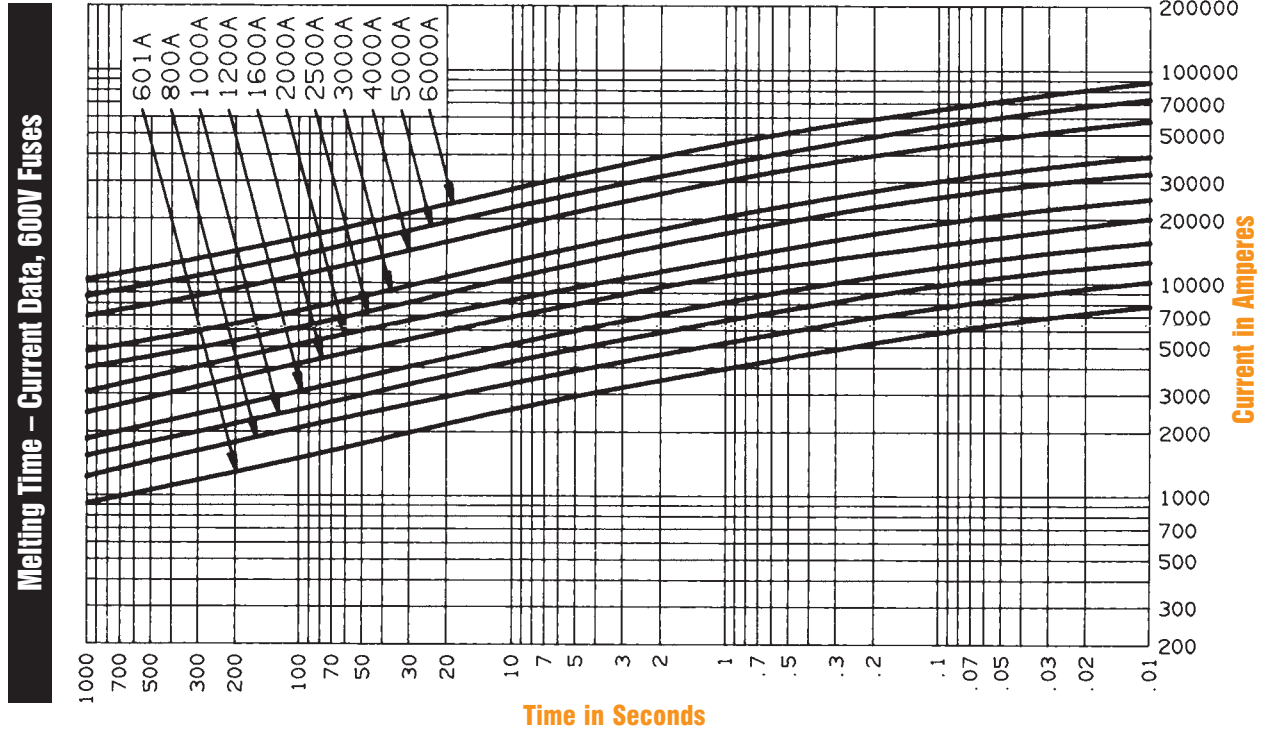
Available Fault RMS AMPS	601 RMS Ip	800 RMS Ip	1000 RMS Ip	1200 RMS Ip	1600 RMS Ip	2000 RMS Ip	2500 RMS Ip	3000 RMS Ip	4000 RMS Ip	5000 RMS Ip	6000 RMS Ip
10,000	7.4 17	8.7 20	10 23	10 23	10 23	10 23	10 23	10 23	10 23	10 23	10 23
15,000	8.3 19	10 23	12 27	13 30	15 35	15 35	15 35	15 35	15 35	15 35	15 35
20,000	9.1 21	11 25	13 29	14 33	17 39	20 46	20 46	20 46	20 46	20 46	20 46
25,000	9.8 23	12 27	13 31	15 35	18 42	22 50	25 58	25 58	25 58	25 58	25 58
30,000	10 24	13 29	14 33	16 37	20 45	23 53	29 66	30 69	30 69	30 69	30 69
35,000	11 25	13 30	15 35	17 39	20 47	24 56	30 69	35 81	35 81	35 81	35 81
40,000	12 27	14 32	16 37	18 41	21 49	25 58	31 72	36 83	40 92	40 92	40 92
50,000	13 29	15 34	17 40	19 44	23 53	27 63	34 78	39 89	48 111	50 115	50 115
60,000	13 30	16 36	18 42	20 47	25 57	29 67	36 83	41 94	51 118	60 138	60 138
80,000	14 33	17 40	20 46	23 52	27 62	32 73	40 91	45 104	57 130	67 153	77 176
100,000	16 36	19 43	22 50	24 56	29 67	34 79	43 98	49 112	61 140	72 165	83 190
150,000	18 41	21 49	25 57	28 64	33 77	39 90	49 112	56 128	70 160	82 189	94 217
200,000	20 45	24 54	27 63	31 71	37 84	43 100	53 123	61 141	77 176	90 208	104 239

The current limiting effect of A4BQ Class L fuses is presented in the table above. This table correlates actual fuse peak let-through currents with equal value peak currents reached in the first half cycle (worst case) of short circuits in unfused circuits. The let-through current is expressed as "Apparent RMS Symmetrical Amperes" in order to be more useful for practical applications. The currents are based on an assumed 15% power factor. Example: An A4BQ1200, when applied in a circuit with 40,000 RMS symmetrical amperes available, will limit that current during a short circuit, to an apparent 18,000 RMS symmetrical amperes. Under this condition, any equipment being protected would be subjected to only 18,000 RMS amperes.

TIME DELAY/CLASS L FUSES

A4BQ

A4BQ601 to 6000



Peak Let-Thru Current Data – A4BQ601 to 6000, 600 Volts AC

