

AJT

TIME DELAY/CLASS J



HIGHLIGHTS:

- Smart Spot Indicator
- Time Delay
- Highly Current Limiting
- Arc Flash Mitigating
- DC Ratings
- Optional Mechanical Indicator (70 to 600A fuses)

APPLICATIONS:

- Motor Circuits
- Mains
- Feeders
- Branch Circuits
- Lighting, Heating & General Loads
- Transformers
- Control Panels
- Circuit Breaker Back-up
- Bus Duct
- Load Centers
- Note: See Motor Fuse Applications Tables on page L9

SMARTSPOT® WITH MAXIMUM CIRCUIT PROTECTION

Amp-trap 2000® SmartSpot® AJT fuses now provide a visual open fuse indicator. With advanced material technology added to the existing product line the AJT fuse provides IEC Type “2” (No Damage) protection to main, feeder, and branch circuits, for all types of loads — yet, they require only half the mounting space needed for 600VAC Class RK fuses. AJT’s time delay characteristics for handling typical in-rush currents, its current limiting ability.

Features/Benefits

- **Solid State SmartSpot Indicator**
- **Time delay** for motor starting and transformer inrush
- **300kA interrupting rating** - self-certified, UL witnessed tests
- **Extremely current limiting** for low peak let-thru current
- **Most current limiting UL class fuse**
- **Recommended for Arc Flash energy reduction**
- **Small footprint** requires less mounting space and allows smaller, more economical fuse blocks
- **Easy 2-to-1 selectivity** for prevention of nuisance shutdowns
- **Unique Class J dimensions** prevent replacement errors
- **High-visibility orange label** gives instant recognition
- **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
- **Optional EI Indicator/Switch mount** for AJT70 to 600 open fuse indication

Ratings

- **AC:** 1 to 600A
600VAC, 200kA I.R.
(self certified for 600VAC, 300kA I.R., UL witnessed)
- **DC:** 1 to 600A
500VDC, 100kA I.R.

Approvals

- **AJT (1-600):**
 - UL Listed to Standard 248-8 File E2137
 - DC Listed to UL Standard 248
 - CSA Certified to Standard C22.2 No. 248.8
 - IEC 269-2-1
- **AJT (70-600) EI:**
 - UL Listed to File E60314
 - DC Tested to UL Standard 248



TIME DELAY/CLASS J FUSES

AJT

Standard Fuse Ampere Ratings, Catalog Numbers

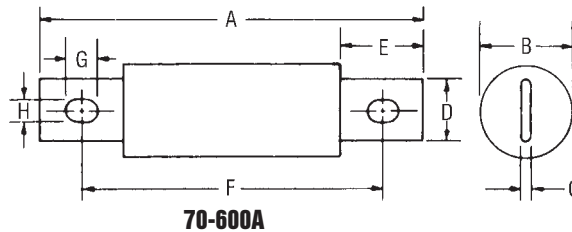
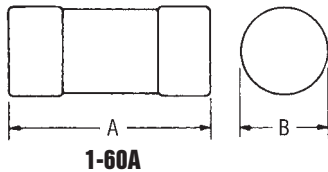
AMPERE RATING	CATALOG NUMBER	AMPERE RATING	CATALOG NUMBER	AMPERE RATING	CATALOG NUMBER	AMPERE RATING	CATALOG NUMBER
1	AJT1	4-1/2	AJT4-1/2	25	AJT25	125	AJT125
1-1/4	AJT1-1/4	5	AJT5	30	AJT30	150	AJT150
1-1/2	AJT1-1/2	5-6/10	AJT5-6/10	35	AJT35	175	AJT175
1-6/10	AJT1-6/10	6	AJT6	40	AJT40	200	AJT200
1-8/10	AJT1-8/10	6-1/4	AJT6-1/4	45	AJT45	225	AJT225
2	AJT2	7	AJT7	50	AJT50	250	AJT250
2-1/4	AJT2-1/4	8	AJT8	60	AJT60	300	AJT300
2-1/2	AJT2-1/2	9	AJT9	70	AJT70	350	AJT350
2-8/10	AJT2-8/10	10	AJT10	80	AJT80	400	AJT400
3	AJT3	12	AJT12	90	AJT90	450	AJT450
3-2/10	AJT3-2/10	15	AJT15	100	AJT100	500	AJT500
3-1/2	AJT3-1/2	17-1/2	AJT17-1/2	110	AJT110	600	AJT600
4	AJT4	20	AJT20				

Recommended Fuse Blocks With Box Connectors for Amp-trap® Class J Fuses

Fuse Ampere Rating	Catalog Number	
	600V OR LESS	
	1 Pole	3 pole
0-30	US3J1I	US3J3I
31-60	US6J1I	US6J3I
61-100	61036J	61038J
101-200	62001J	62003J
201-400	64031J	64033J
401-600	6631J	6633J

A variety of pole configurations and termination provisions is available.

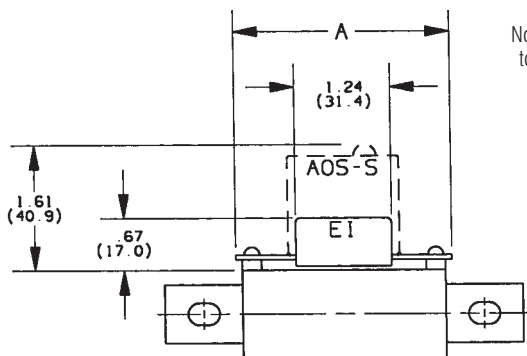
Note: Indicator Not Available (1-7A)



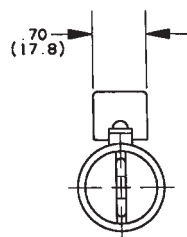
Dimensions

AMPERE RATING	A		B		C		D		E		F		G		H	
	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm
1-30	2-1/4	57	13/16	21	-	-	-	-	-	-	-	-	-	-	-	-
31-60	2-3/8	60	1-1/16	27	-	-	-	-	-	-	-	-	-	-	-	-
61-100	4-5/8	117	1-1/16	27	1/8	3.2	3/4	19	1	25	3-5/8	92	3/8	10	9/32	7
101-200	5-3/4	146	1-5/8	41	3/16	4.8	1-1/8	29	1-3/8	35	4-3/8	111	3/8	10	9/32	7
201-400	7-1/8	181	2-1/8	54	1/4	6.3	1-5/8	41	1-7/8	48	5-1/4	133	17/32	14	13/32	10
401-600	8	203	2-1/2	64	3/8	9.5	2	51	2-1/8	54	6	152	11/16	18	17/32	13

Optional Indicator/Microswitch Mount (EI) dimensions:



Note: Fuses with the EI option are designed to work with the AOS-S or AOS-Q add-on Switch, which is ordered separately. See page J7 for details.

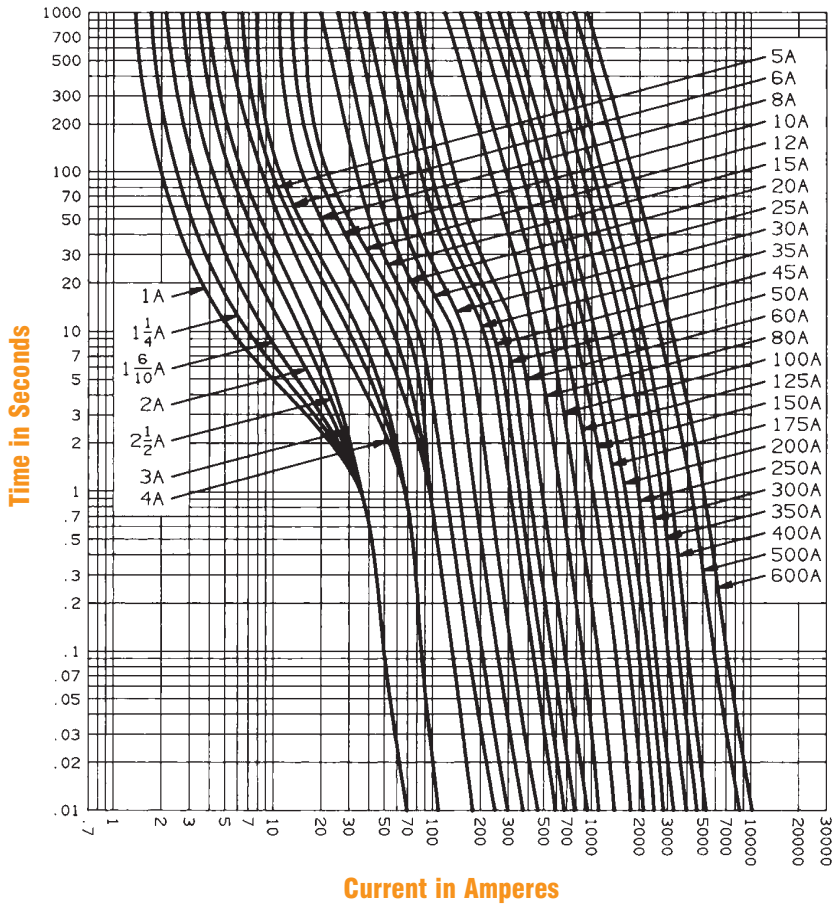


CATALOG NUMBER	A
AJT(70-100)-EI	2.80 (71.0)
AJT(110-200)-EI	3.22 (81.8)
AJT(225-400)-EI	3.24 (82.2)
AJT(450-600)-E ₁	3.61 (91.8)

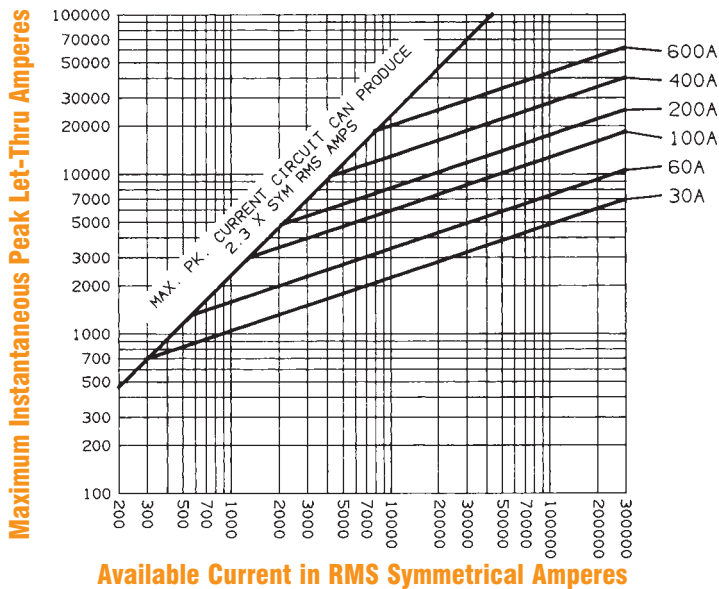
TIME DELAY/CLASS J FUSES

AJT

Melting Time – Current Data, 600V Fuses – AJT1 to 600



Peak Let-Through Current Data – AJT30 to 600, 600 Volts AC



Note: See Motor Fuse Application Tables on page L9.

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

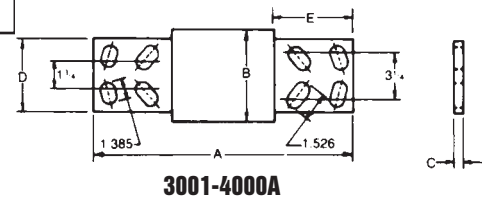
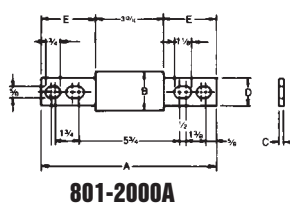
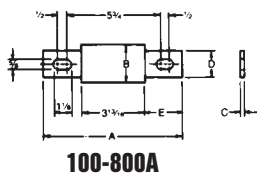
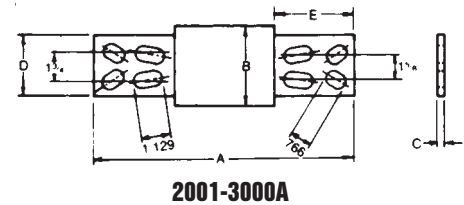
- UL Listed to Standard 248-10 (601-6000A) File E2137
- DC Listed to UL Standard 248 (601-3000A)
- CSA Certified to Standard C22.2 No. 248.10 (601-6000A)

TIME DELAY/CLASS L FUSES

A4BQ

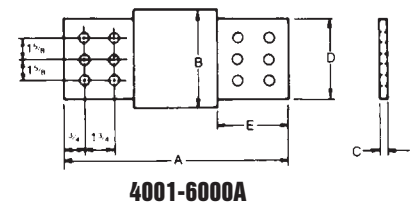
Standard Fuse Ampere Ratings, Catalog Numbers

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



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



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		800		1000		1200		1600		2000		2500		3000		4000		5000		6000	
	RMS	Ip	RMS	Ip	RMS	Ip	RMS	Ip	RMS	Ip	RMS	Ip	RMS	Ip	RMS	Ip	RMS	Ip	RMS	Ip	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

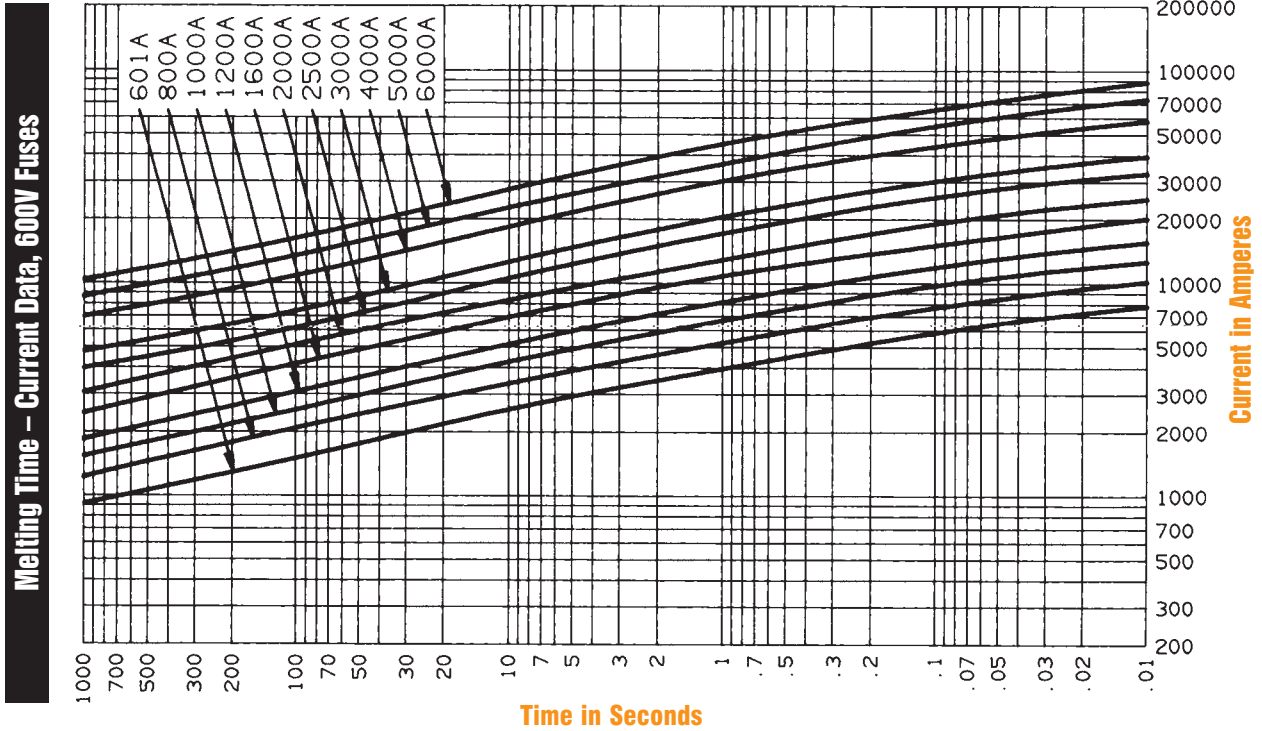
The current limiting effect of A4BQ Class L fuses is presented in the table above. This table correlates actual fuse peak let-through currents with equal value peak currents reached in the first half cycle (worst case) of short circuits in unfused circuits. The let-through current is expressed as "Apparent 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

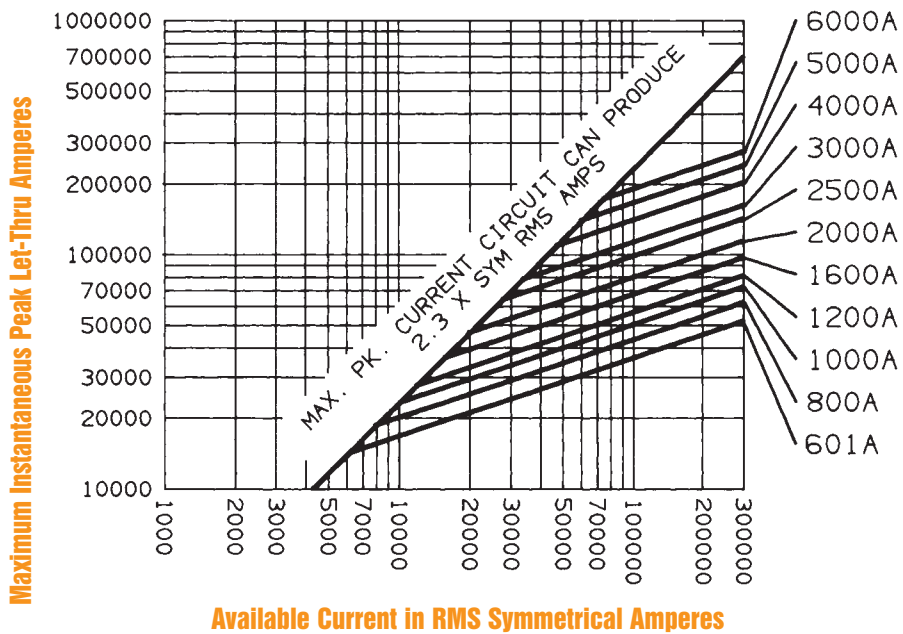
A4BQ

A4BQ601 to 6000

A



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



A2D & A6D

TIME DELAY/CLASS RK1



UPGRADE YESTERDAY'S CIRCUITS TO TODAY'S TYPE 2 PROTECTION.

Amp-trap 2000® SmartSpot® A2D, A6D fuses now provide a visual open fuse indicator. With advanced material technology added to the existing product line the A2D, A6D fuses provide IEC Type “2” (No Damage) protection to main, feeder, and branch circuits, for all types of loads — A2D, A6D’s time delay characteristics for handling harmless in-rush currents, its current limiting ability and wide range of ratings (from 1 to 600 Amperes) — give excellent protection for all your applications.

Features/Benefits

- **Solid State SmartSpot Indicator**
- **Time delay** for motor starting and transformer inrush currents without nuisance opening
- **600VAC & 600VDC**
- **300kA interrupting rating** - self-certified, UL witnessed tests
- **Extremely Current Limiting** for low peak let-thru current
- **Recommended for Arc Flash energy reduction**
- **Easy 2-to-1 selectivity** for prevention of nuisance shut downs and “black outs”
- **Rejection-style design** prevents replacement errors (when used with recommended fuse blocks)
- **High-visibility orange label** gives instant recognition
- **Reduced inventory** by taking the place of RK5, K, and H fuses
- **Metal-embossed date and catalog number** for easier traceability and lasting identification
- **Fiberglass body** provides dimensional stability in harsh industrial settings

HIGHLIGHTS:

- SmartSpot Indicator
- Time Delay
- Current Limiting
- Arc Flash mitigating
- Plated Terminals

APPLICATIONS:

- Motors
- Safety Switches
- Transformers
- Branch Circuit Protection
- Disconnects
- Control Panels
- All General-purpose Circuits

Ratings

- **A2D**
AC: 1/10 to 600A
 250VAC, 200kA I.R.
 (self certified for
 250VAC, 300kA I.R.,
 UL witnessed)
DC: 1/10 to 600A
 250VDC, 100kA I.R.
- **A6D**
AC: 1/10 to 600A
 600VAC, 200kA I.R.
 (self certified for
 600VAC, 300kA I.R.)
DC: 1/10 to 600A
 600VDC, 100kA I.R.

Approvals

- UL Listed to Standard 248-12 File E2137
- DC Listed to UL Standard 248
- CSA Certified to Standard C22.2 No. 248.12



TIME DELAY/CLASS RK1 FUSES

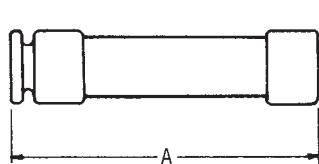
A2D & A6D

Standard Fuse Ampere Ratings, Catalog Numbers

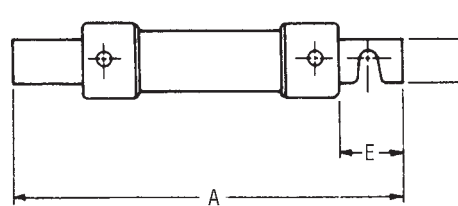
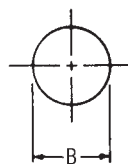
Ampere Rating	Catalog Number		Ampere Rating	Catalog Number		Ampere Rating	Catalog Number	
	250V	600V		250V	600V		250V	600V
1/10	A2D1/10R	A6D1/10R	3-1/2	A2D3-1/2R	A6D3-1/2R	50	A2D50R	A6D50R
15/100	A2D15/100R	A6D15/100R	4	A2D4R	A6D4R	60	A2D60R	A6D60R
2/10	A2D2/10R	A6D2/10R	4-1/2	A2D4-1/2R	A6D4-1/2R	70	A2D70R	A6D70R
3/10	A2D3/10R	A6D3/10R	5	A2D5R	A6D5R	75	A2D75R	-
4/10	A2D4/10R	A6D4/10R	5-6/10	A2D5-6/10R	A6D5-6/10R	80	A2D80R	A6D80R
1/2	A2D1/2R	A6D1/2R	6	A2D6R	A6D6R	90	A2D90R	A6D90R
6/10	A2D6/10R	A6D6/10R	6-1/4	A2D6-1/4R	A6D6-1/4R	100	A2D100R	A6D100R
8/10	A2D8/10R	A6D8/10R	7	A2D7R	A6D7R	110	A2D110R	A6D110R
1	A2D1R	A6D1R	8	A2D8R	A6D8R	125	A2D125R	A6D125R
1-1/8	A2D1-1/8R	A6D1-1/8R	9	A2D9R	A6D9R	150	A2D150R	A6D150R
1-1/4	A2D1-1/4R	A6D1-1/4R	10	A2D10R	A6D10R	175	A2D175R	A6D175R
1-4/10	A2D1-4/10R	A6D1-4/10R	12	A2D12R	A6D12R	200	A2D200R	A6D200R
1-6/10	A2D1-6/10R	A6D1-6/10R	15	A2D15R	A6D15R	225	A2D225R	A6D225R
1-8/10	A2D1-8/10R	A6D1-8/10R	17-1/2	A2D17-1/2R	A6D17-1/2R	250	A2D250R	A6D250R
2	A2D2R	A6D2R	20	A2D20R	A6D20R	300	A2D300R	A6D300R
2-1/4	A2D2-1/4R	A6D2-1/4R	25	A2D25R	A6D25R	350	A2D350R	A6D350R
2-1/2	A2D2-1/2R	A6D2-1/2R	30	A2D30R	A6D30R	400	A2D400R	A6D400R
2-8/10	A2D2-8/10R	A6D2-8/10R	35	A2D35R	A6D35R	450	A2D450R	A6D450R
3	A2D3R	A6D3R	40	A2D40R	A6D40R	500	A2D500R	A6D500R
3-2/10	A2D3-2/10R	A6D3-2/10R	45	A2D45R	A6D45R	600	A2D600R	A6D600R



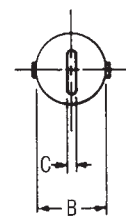
Note: Indicator Not Available (1/10-7A)



0-60A



61-600A



Dimensions

AMPERE RATING	A		B		C		D		E	
	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm
250V-A2D										
0-30	2	51	9/16	14	-	-	-	-	-	-
31-60	3	76	13/16	21	-	-	-	-	-	-
61-100	5-7/8	149	1-1/16	27	1/8	3	3/4	19	1	25
101-200	7-1/8	181	1-9/16	40	3/16	5	1-1/8	28	1-3/8	35
201-400	8-5/8	219	2-1/16	53	1/4	6	1-5/8	41	1-7/8	48
401-600	10-3/8	264	2-9/16	66	1/4	6	2	51	2-1/4	57
600V-A6D										
0-30	5	127	13/16	21	-	-	-	-	-	-
31-60	5-1/2	139	1-1/16	27	-	-	-	-	-	-
61-100	7-7/8	200	1-5/16	34	1/8	3	3/4	19	1	25
101-200	9-5/8	244	1-13/16	46	3/16	5	1-1/8	28	1-3/8	35
201-400	11-5/8	295	2-9/16	66	1/4	6	1-5/8	41	1-7/8	48
401-600	13-3/8	340	3-1/8	80	1/4	6	2	51	2-1/4	57

Recommended Fuse Blocks With Box Connectors for Amp-trap® Class RK1 Fuses

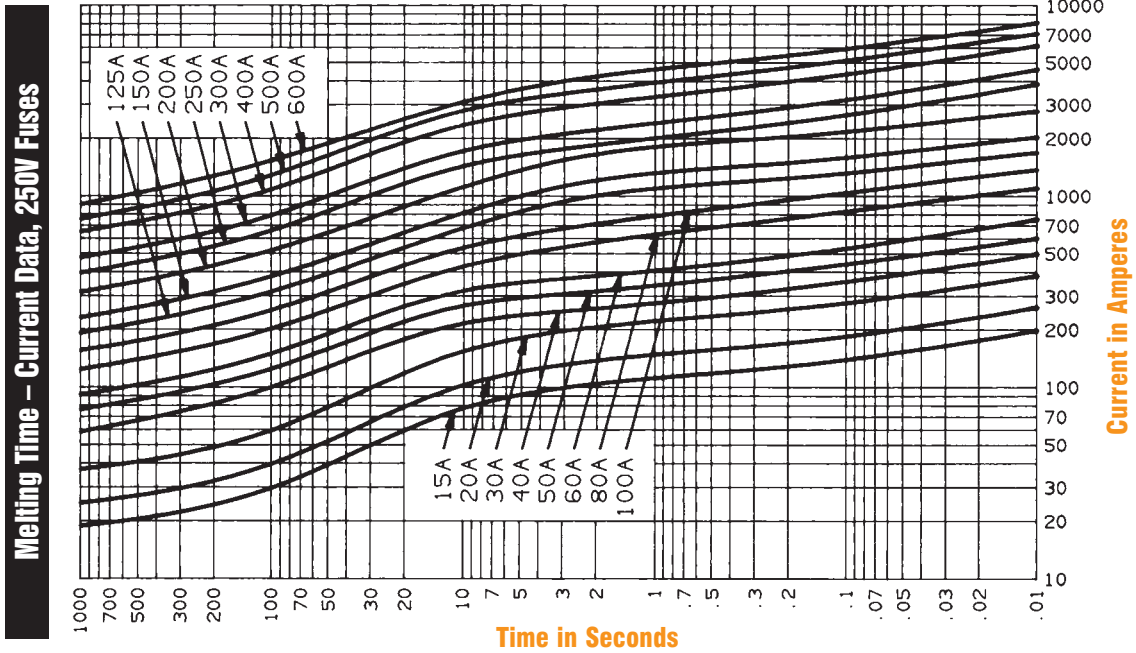
Fuse Ampere Rating	Catalog Number			
	250V		600V	
	1 Pole	3 pole	1 pole	3 pole
0-30	20306R	20308R	60306R	60308R
31-60	20606R	20608R	60606R	60608R
61-100	21036R	21038R	61036R	61038R
101-200	22001R	22003R	62001R	62003R
201-400	24001R	24003R	64001R	64003R
401-600	2631R	2633R	6631R	6633R

A variety of pole configurations and termination provisions is available.

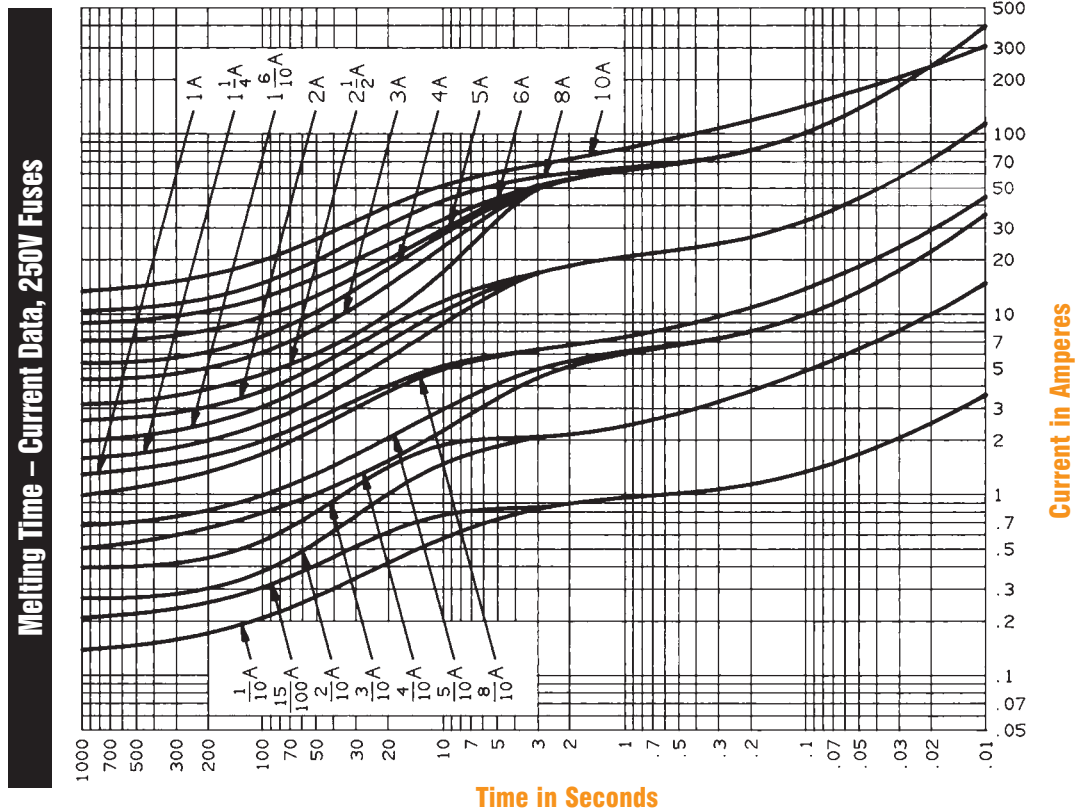
TIME DELAY/CLASS RK1 FUSES

A2D & A6D

A2D15 to 600



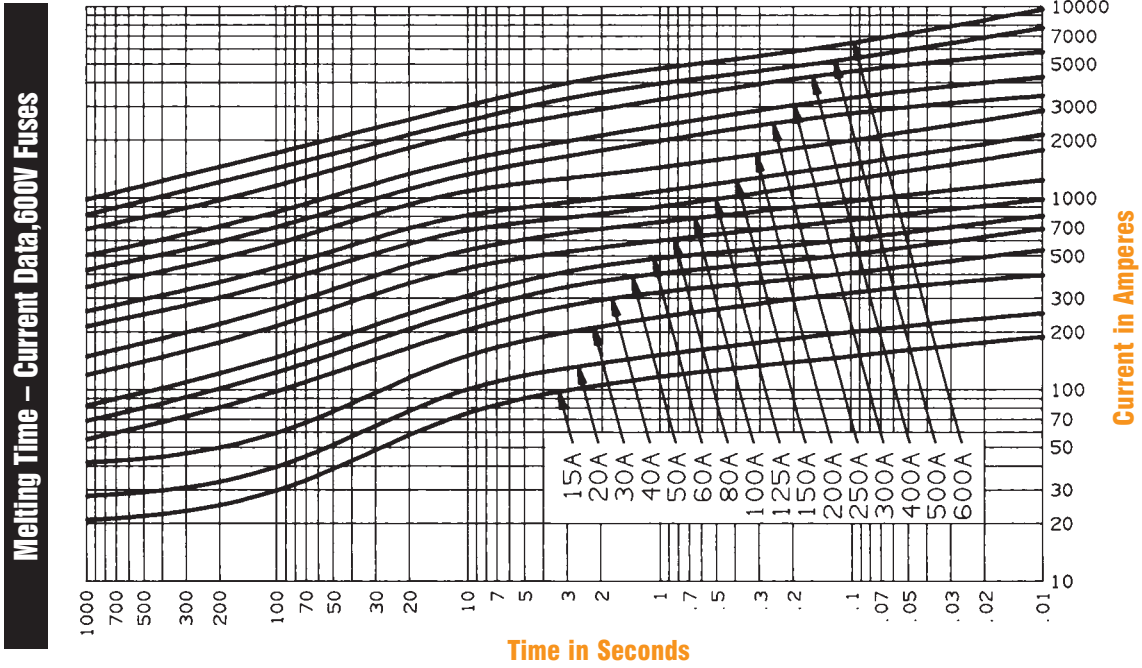
A2D1/10 to 10



TIME DELAY/CLASS RK1 FUSES

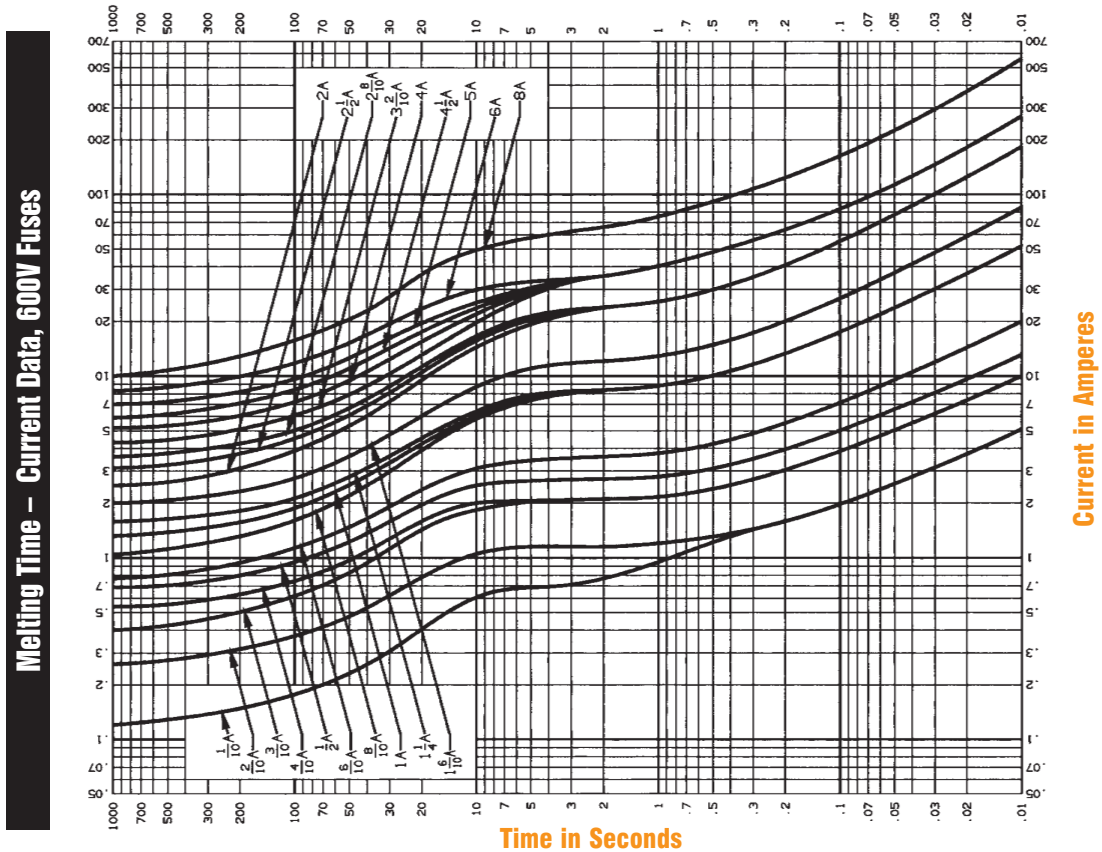
A2D & A6D

A6D15 to 600



A

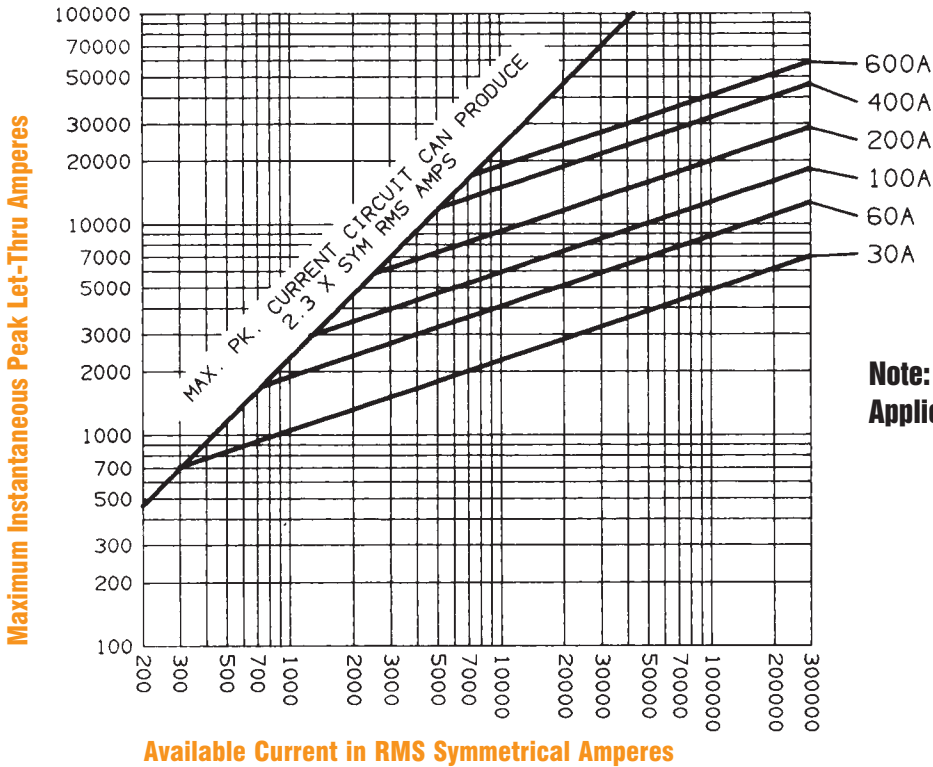
A6D1/10 to 8



TIME DELAY/CLASS RK1 FUSES

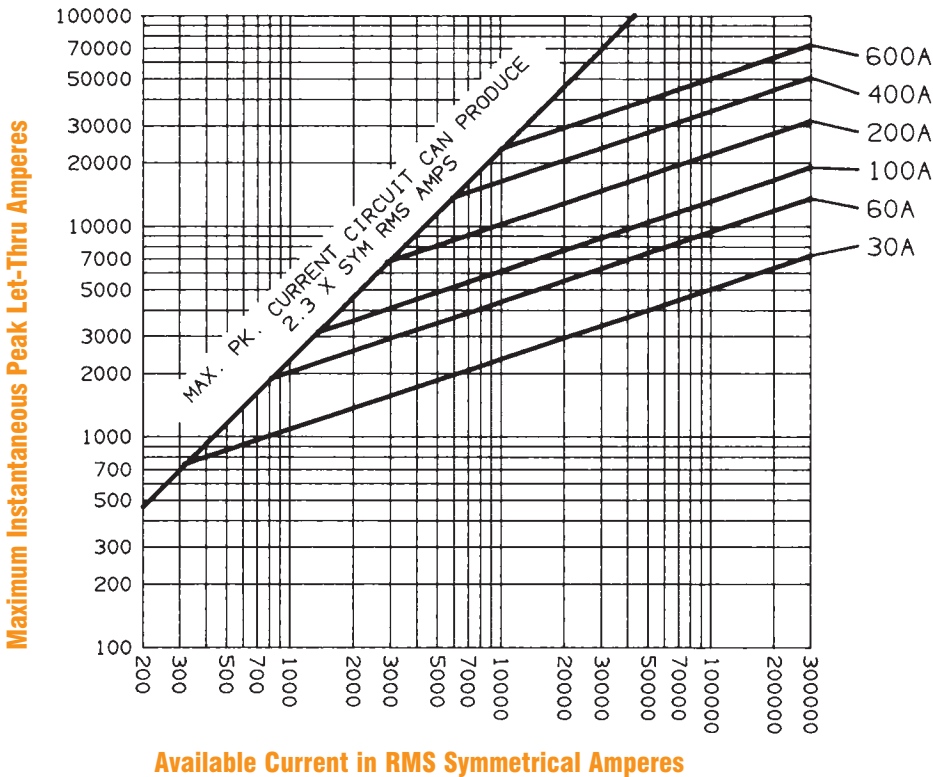
A2D & A6D

Peak Let-Thru Current Data – A2D30 to 600, 250 Volts AC



Note: See Motor Fuse Application Tables page L9.

Peak Let-Thru Current Data – A6D30 to 600, 600 Volts AC



ATDR

TIME DELAY/CLASS CC



THE BEST PROTECTION FOR TODAY'S SMALL MOTORS.

Amp-trap 2000® ATDR small-dimension fuses can provide IEC Type 2 “no damage” protection to your facility’s increasingly sensitive branch circuit components and small motors – minimizing the risk of fault-related damage. ATDR Class CC fuses deliver the best time delay characteristics in their class with excellent cycling ability for small motor loads.

A

Features/Benefits

- **Time delay** for motor starting inrush currents without nuisance opening
- **Highly current limiting** for low peak let-thru current
- **Improved cycling ability** for frequent motor starts/stops without nuisance fuse opening
- **Rejection-style design** prevents replacement errors (when used with recommended fuse blocks)
- **High-visibility orange label** ensures instant recognition, simplifies replacement
- **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 and optimum current limitation

HIGHLIGHTS:

- Time Delay
- Best Choice for Small Motor Protection
- Highly Current-Limiting
- AC & DC Rated

APPLICATIONS:

- Small Motors
- Contactors
- Lighting, Heating & General Loads
- Branch Circuit Protector

Ratings

- **AC:** 1/4 to 30A
600VAC, 200kA I.R.
- **DC:** 1/4 to 30A
300VDC, 100kA I.R.

Approvals

- UL Listed to Standard 248-4 File 2137
- CSA Certified to Standard C22.2 No. 248.4
- DC Listed to UL Standard 248



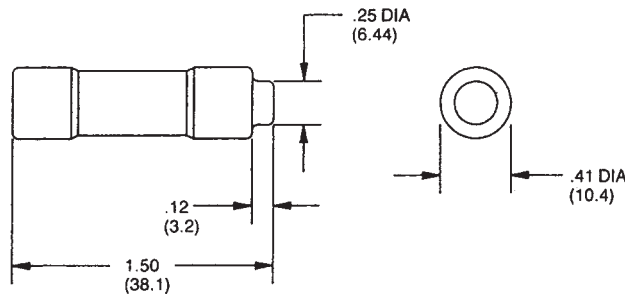
TIME DELAY/CLASS CC FUSES

ATDR

Standard Fuse Ampere Ratings, Catalog Numbers

AMPERE RATING	CATALOG NUMBER	AMPERE RATING	CATALOG NUMBER	AMPERE RATING	CATALOG NUMBER	AMPERE RATING	CATALOG NUMBER	AMPERE RATING	CATALOG NUMBER
1/4	ATDR1/4	1-1/2	ATDR1-1/2	3	ATDR3	6	ATDR6	12	ATDR12
1/2	ATDR1/2	1-6/10	ATDR1-6/10	3-2/10	ATDR3-2/10	6-1/4	ATDR6-1/4	15	ATDR15
8/10	ATDR8/10	1-8/10	ATDR1-8/10	3-1/2	ATDR3-1/2	7	ATDR7	17-1/2	ATDR17-1/2
1	ATDR1	2	ATDR2	4	ATDR4	7-1/2	ATDR7-1/2	20	ATDR20
1-1/8	ATDR1-1/8	2-1/4	ATDR2-1/4	4-1/2	ATDR4-1/2	8	ATDR8	25	ATDR25
1-1/4	ATDR1-1/4	2-1/2	ATDR2-1/2	5	ATDR5	9	ATDR9	30	ATDR30
1-4/10	ATDR1-4/10	2-8/10	ATDR2-8/10	5-6/10	ATDR5-6/10	10	ATDR10		

Dimensions



Small Motor Fuse Protection, 600 Volts AC or Less

MOTOR FULL LOAD AMPERES	ATDR RATING*	
	MINIMUM DUTY	NORMAL DUTY
.71 - .89	1-1/4	1-6/10
.90 - 1.19	1-6/10	2
1.20 - 1.34	2	2-1/2
1.35 - 1.79	2-1/2	3
1.80 - 2.25	3	4
2.26 - 2.69	4	5
2.70 - 2.90	4	6
2.91 - 3.20	5	6
3.21 - 3.75	5	7
3.76 - 4.50	6	8
4.51 - 5.34	8	10
5.35 - 5.69	10	12
5.70 - 6.70	12	12
6.71 - 7.79	12	15
7.80 - 8.88	15	17-1/2
8.89 - 11.1	17-1/2	20
11.2 - 13.3	20	25
13.4 - 15.2	25	30

Recommended Fuse Blocks for Class CC Fuses

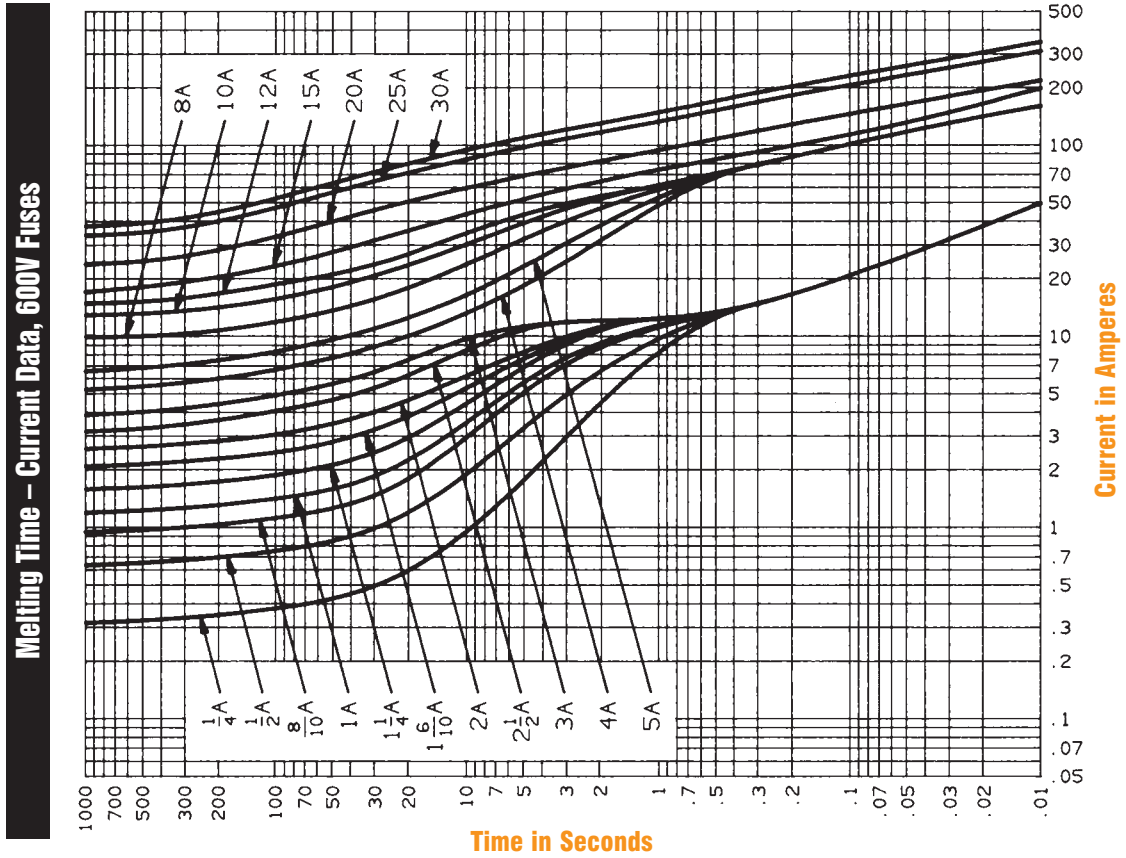
Number of Poles	CATALOG NUMBER			
	ULTRASAFE™ Indicating Fuse Holder	Screw Connector w/ Double Quick Connects	Pressure Plate Connector w/ Double Quick Connects	Copper Box Connector
ADDER				
1	USCC1I	30310R	30320R	30350R
2	USCC2I	30311R	30321R	30351R
3	USCC3I	30312R	30322R	30352R
		30313R	30323R	30353R

* The National Electrical Code allows time-delay Class CC fuses to be sized at up to 400% (maximum) of motor FLA, if needed.

TIME DELAY/CLASS CC FUSES

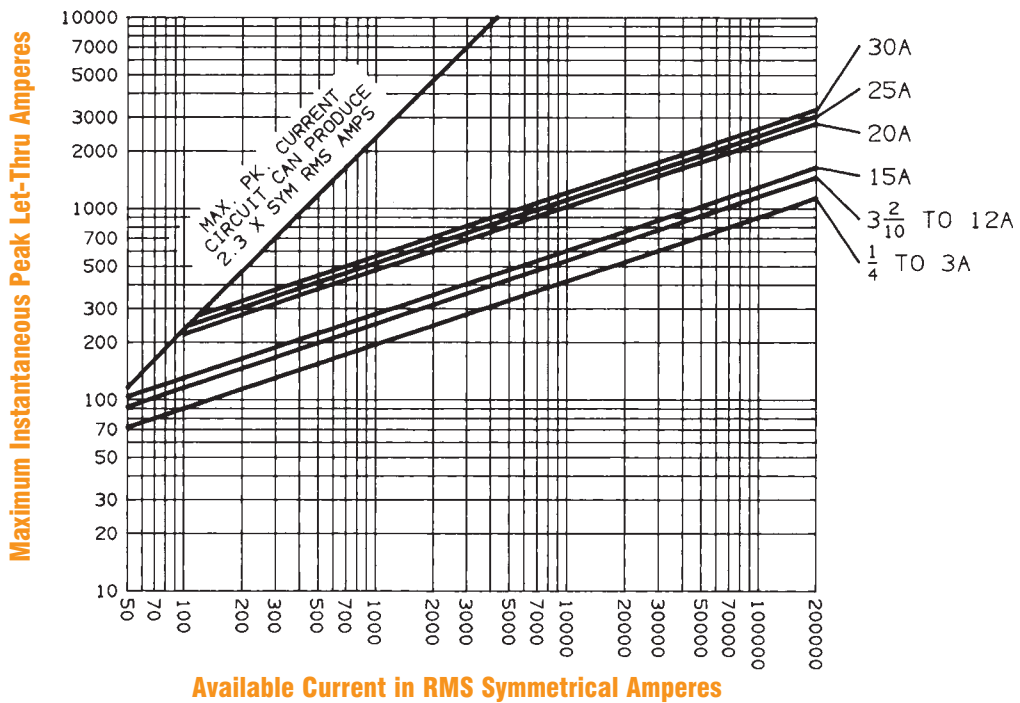
ATDR

ATDR1/4 to 30



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Peak Let-Through Current Data – ATDR1/4 to 30, 600 Volts AC



ATQR

TIME DELAY/CLASS CC



TAKE *CONTROL* OF FAULT CURRENTS HEADED FOR YOUR *CONTROL TRANSFORMER*

ATQR small-dimension fuses feature time delay characteristics ideally suited for the high inrush currents of control transformers, solenoids, and similar inductive loads. The newest member of our Amp-trap 2000® family of fuses - ATQR fuses provide superior protection for the branch circuits of electrical distribution systems.

Features/Benefits

- **Time delay** for control transformer inrush loads without nuisance opening
- **Highly current limiting** for low peak let-thru current
- **Rejection-style design** prevents replacement errors (when used with recommended fuse blocks)
- **High-visibility orange label** ensures instant recognition, and simplifies replacement
- **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 and high current limitation

HIGHLIGHTS:

- Time Delay
- Best Choice for Small Transformer Protection
- Most Current-Limiting

APPLICATIONS:

- Control Transformers
- Solenoids
- Inductive Loads
- Lighting, Heating & General-purpose Loads

Ratings

- **AC:** 1/10 to 30A 600VAC, 200kA I.R.
- **DC:** 1/10 to 30A300VDC, 100kA I.R.

Approvals

- UL Listed to Standard 248-4
- DC Listed to UL Standard 248
- CSA Certified to Standard C22.2 No. 248.4



TIME DELAY/CLASS CC FUSES

ATQR

Standard Fuse Ampere Ratings, Catalog Numbers

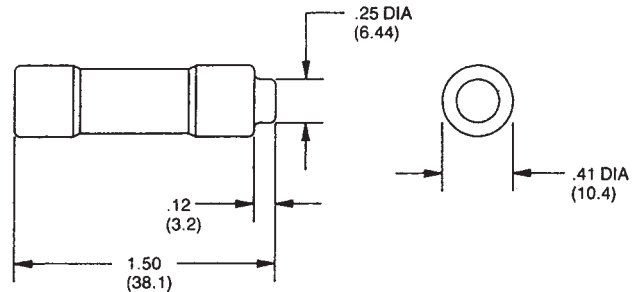
AMPERE RATING	CATALOG NUMBER	AMPERE RATING	CATALOG NUMBER	AMPERE RATING	CATALOG NUMBER	AMPERE RATING	CATALOG NUMBER
1/10	ATQR1/10	8/10	ATQR8/10	2-8/10	ATQR2-8/10	7-1/2	ATQR7-1/2
1/8	ATQR1/8	1	ATQR1	3	ATQR3	8	ATQR8
3/16	ATQR3/16	1-1/8	ATQR1-1/8	3-2/10	ATQR3-2/10	9	ATQR9
2/10	ATQR2/10	1-1/4	ATQR1-1/4	3-1/2	ATQR3-1/2	10	ATQR10
1/4	ATQR1/4	1-4/10	ATQR1-4/10	4	ATQR4	12	ATQR12
3/10	ATQR3/10	1-1/2	ATQR1-1/2	4-1/2	ATQR4-1/2	15	ATQR15
4/10	ATQR4/10	1-6/10	ATQR1-6/10	5	ATQR5	17-1/2	ATQR17-1/2
1/2	ATQR1/2	1-8/10	ATQR1-8/10	5-6/10	ATQR5-6/10	20	ATQR20
6/10	ATQR6/10	2	ATQR2	6	ATQR6	25	ATQR25
3/4	ATQR3/4	2-1/4	ATQR2-1/4	6-1/4	ATQR6-1/4	30	ATQR30
		2-1/2	ATQR2-1/2	7	ATQR7		



Recommended ATQR Class CC Primary Fuses For Single Phase Control Transformers

TRANS VA	PRIMARY		ATOR AMPS	TRANS VA	PRIMARY		ATOR AMPS
	VOLTS	FLA			VOLTS	FLA	
25	600	0.04	1/10	300	600	0.50	1-1/8
	480	0.05	1/10		480	0.63	1-1/2
	240	0.10	2/10		240	1.25	2-1/2
	208	0.12	1/4		208	1.44	3
	120	0.21	4/10		120	2.5	5*
50	600	0.08	1/4	500	600	0.83	1-1/2
	480	0.10	1/4		480	1.04	2
	240	0.21	4/10		240	2.08	4*
	208	0.24	1/2		208	2.40	6*
	120	0.42	6/10		120	4.17	10*
75	600	0.13	1/4	750	600	1.25	2-1/2
	480	0.16	3/10		480	1.56	3
	240	0.31	1/2		240	3.13	7*
	208	0.36	3/4		208	3.61	8*
	120	0.63	1		120	6.25	15*
100	600	0.17	3/10	1000	600	1.67	3
	480	0.21	4/10		480	2.08	4*
	240	0.42	6/10		240	4.16	10*
	208	0.48	1		208	4.81	12*
	120	0.83	1-1/2		120	8.33	20*
150	600	0.25	1/2	1500	600	2.50	5*
	480	0.31	1/2		480	3.13	7*
	240	0.63	1		240	6.25	10
	208	0.72	1-1/2		208	7.21	20*
	120	1.25	2-1/2		120	12.5	25*
200	600	0.33	1/2	2000	600	3.33	8*
	480	0.42	6/10		480	4.17	10*
	240	0.83	1-1/2		240	8.33	20+*
	208	0.96	2		208	9.62	20+*
	120	1.67	3				
250	600	0.42	6/10	3000	600	5.00	12+*
	480	0.52	1-1/8		480	6.25	15+*
	240	1.04	2		240	12.5	30+*
	208	1.2	3				
	120	2.08	4*		5000	600	8.33
			480	10.4		25+*	

Dimensions



Recommended Fuse Blocks for Class CC Fuses

Number of Poles	ULTRASAFE™ Indicating Fuse Holder	Screw with Double Quick Connects	Pressure Plate with Double Quick Connects	Copper Box Connector
ADDER				
1	USCC1I	30310R	30320R	30350R
2	USCC2I	30311R	30321R	30351R
3	USCC3I	30312R	30322R	30352R
		30313R	30323R	30353R

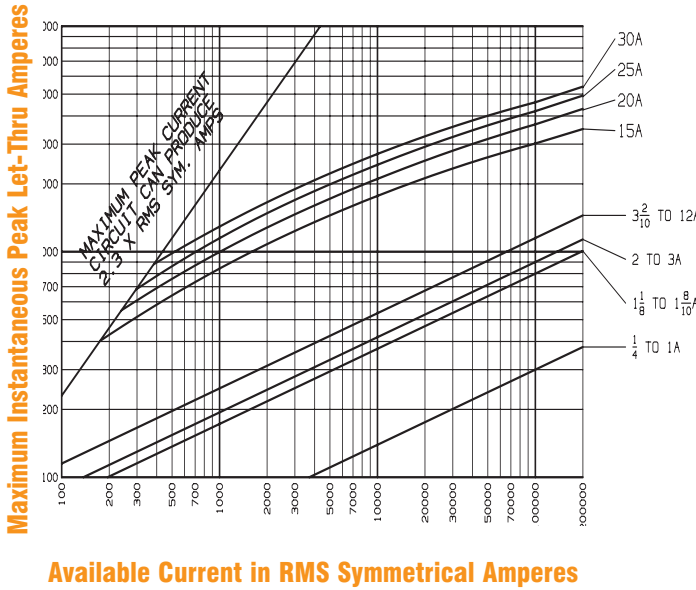
Primary fuses - If primary FLA is less than 2 amps, fuse may be 300% max. (500% for motor control). If primary FLA exceeds 2 amps but is less than 9 amps, fuse may not exceed 167% of primary FLA unless secondary protection is used, when it may be increased to 250%. Fuse sizes shown are based on approx. 40 x FLA for .01 sec.

- * Secondary protection is required for these ratings.
- + Fuse will withstand 30 x FLA for .01 second
- ++ Fuse will withstand 25 x FLA for .01 second

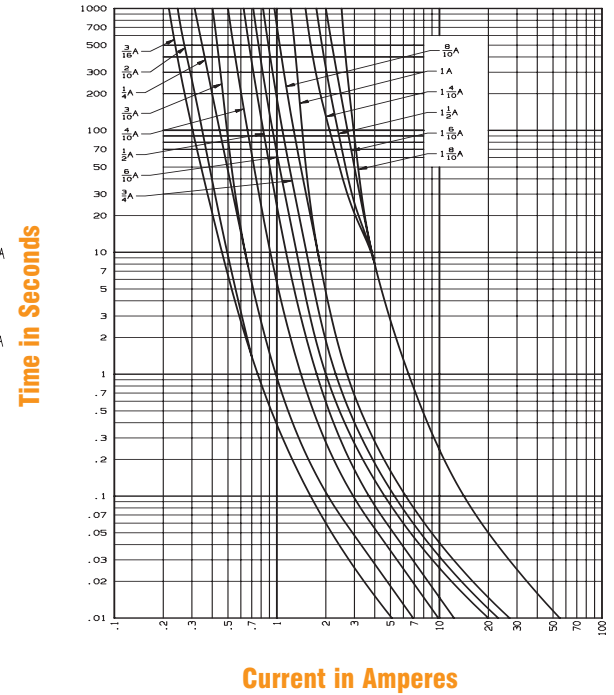
TIME DELAY/CLASS CC FUSES

ATQR

Peak Let-Through Current Data—ATQR 1/4 to 30, 600 Volts AC



Melting Time-Current Data ATQR 3/16 to 1-8/10, 600 Volts



Melting Time-Current Data ATQR 2 to 30, 600 Volts AC

