



## Time Delay Class CC Fuses

Take Control of Fault Currents Headed for your Control Transformer

### Description

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 trace ability 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
- Lightening, Heating & General-purpose Loads

### Ratings

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

### Approvals

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

### 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	ATQR7
1/8	ATQR1/8	1	ATQR1	3	ATQR3	7-1/2	ATQR7-1/2
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	2	ATQR2	5-6/10	ATQR5-6/10	20	ATQR20
6/10	ATQR6/10	2-1/4	ATQR2-1/4	6	ATQR6	25	ATQR25
3/4	ATQR3/4	2-1/2	ATQR2-1/2	6-1/4	ATQR6-1/4	30	ATQR30



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### Recommended ATQR Class CC Primary Fuses for Single Phase Control Transformers

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

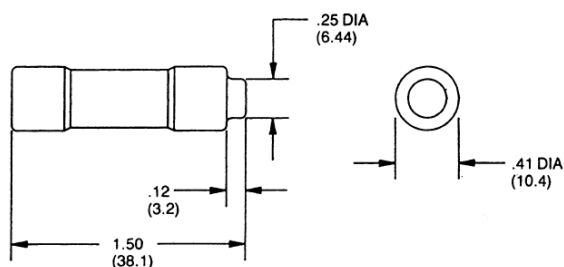
**Primary Fuses** - If primary FLA is less than 2 amps, fuse may be 300% max. (500% for motor control). If primary FLA exceeds 2 amps but is less than 9 amps, fuse may not exceed 167% of primary FLA unless secondary protection is used, when it may be increased to 250%. Fuse sizes shown are based on approx.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

#### Dimensions



#### Recommended Fuse Blocks for Class CC Fuses

Model No.	Description
USCC1	Class CC fuse holder
USCC1I	Class CC fuse holder with LED
USPTH2	Pin-tie handle for fuse holder 2 pole 10pcs
USPTH3	Pin tie handle for fuse holder 3 pole 10pcs

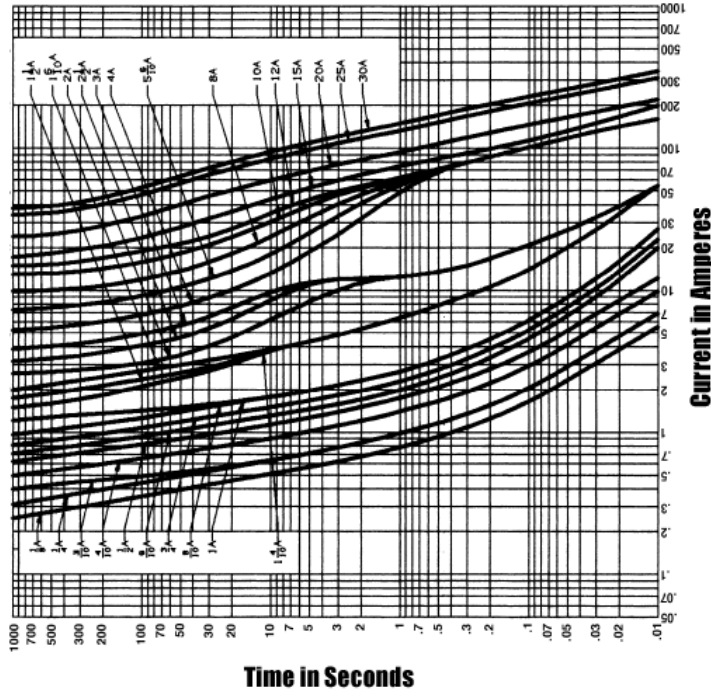


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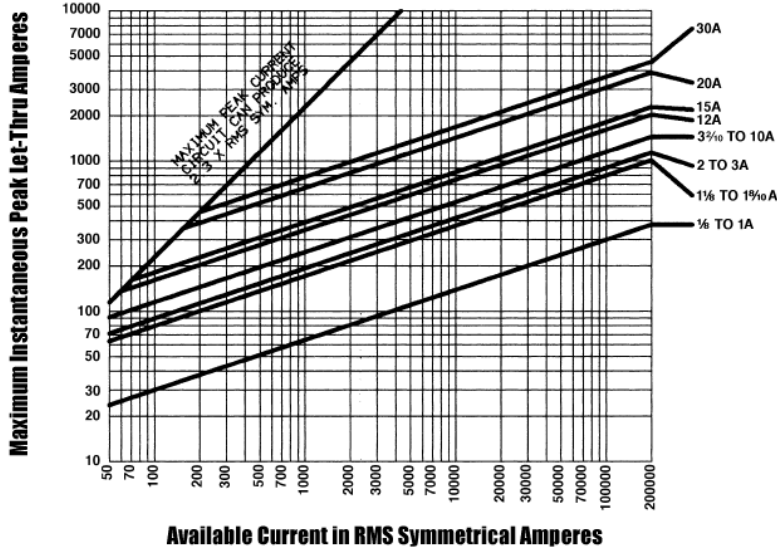
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**ATQR1/8 to 30**

**Melting Time – Current Data, 600V Fuses**



**Peak Let-Thru Current Data – ATQR1/8 to 30, 600 Volts AC**



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