

# 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.

### 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 brand 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 protection

*Note: See motor fuse applications tables on page P7*



### Ratings:

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

### Approvals:

- UL listed to standard 248-4 File E2137
- CSA certified to standard C22.2 No. 248.4
- DC listed to UL standard 248



# ATDR Time-delay/Class CC

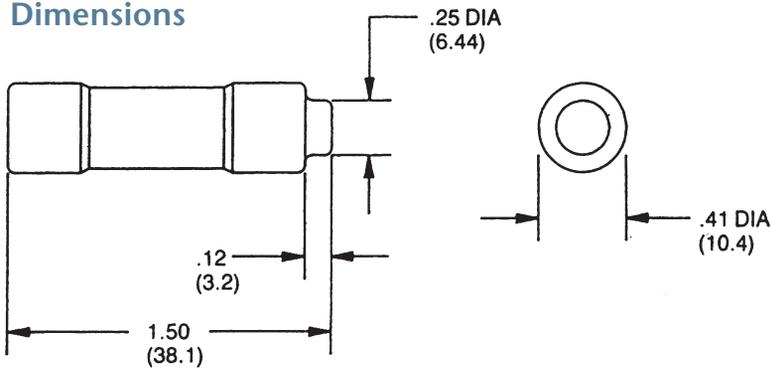
## Catalog Numbers (amps)

ATDR1/4	ATDR1-1/2	ATDR3	ATDR6	ATDR12
ATDR1/2	ATDR1-6/10	ATDR3-2/10	ATDR6-1/4	ATDR15
ATDR8/10	ATDR1-8/10	ATDR3-1/2	ATDR7	ATDR17-1/2
ATDR1	ATDR2	ATDR4	ATDR7-1/2	ATDR20
ATDR1-1/8	ATDR2-1/4	ATDR4-1/2	ATDR8	ATDR25
ATDR1-1/4	ATDR2-1/2	ATDR5	ATDR9	ATDR30
ATDR1-4/10	ATDR2-8/10	ATDR5-6/10	ATDR10	

## Recommended Fuse Blocks for Class CC Fuses

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

## Dimensions



# AG Class G

## Amp-Trap® AG fuses fit right in to a wide variety of industrial applications

The Mersen Amp-Trap AG fuse series is a complete line of Class G fuses. AG fuses safely fit a wide variety of applications. Class G fuses are made in four physical sizes and provide superior branch-circuit protection for lighting, heating, and appliance circuits.

### Features/Benefits:

- Four unique sizes from 1/2-60 amperes do not allow inter-changeability with other fuse classes
- Fiberglass bodies provide dimensional stability in harsh industrial settings

### Highlights:

- Current-limiting
- Time-delay (above 5A)

### Applications:

- Lighting
- Heating\*
- Appliances

*\*except in Canada where fuses must be "P" or "D" type.*

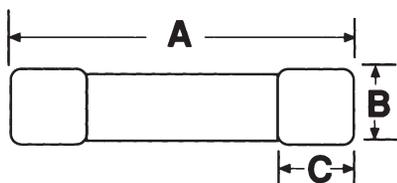
### Catalog Numbers (amps)

AG1/2	AG15
AG1	AG20
AG1-1/2	AG25
AG2	AG30
AG3	AG35
AG4	AG40
AG5	AG45
AG6	AG50
AG8	AG60
AG10	

### Dimensions

Ampere Rating	A		B		C	
	in	mm	in	mm	in	mm
1/2-15A	1.31	33.3	.406	10.3	.28	7.1
20A	1.41	35.8	.406	10.3	.28	7.1
25, 30A	1.62	41.2	.406	10.3	.28	7.1
35-60A	2.25	57.2	.406	10.3	.50	

Cross Reference: AG will replace the following fuses: Bussmann SC, Littelfuse SLC



### Ratings:

**Volts** : 600VAC (1/2 to 20A)  
 : 480VAC (25 to 60A)  
**Amps** : 1/2 to 60A  
**IR** : 100kA I.R. AC

### Approvals:

- UL listed to standard 248-5 File E2137
- CSA certified to standard C22.2 No. 248.5



# AJT Time-delay/Class J

## SmartSpot® with maximum circuit protection

Amp-Trap 2000® SmartSpot AJT fuses now provide a visual open fuse indicator. With advanced material technology 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 are ideal for handling typical motor and transformer inrush currents, while also providing superior current-limiting ability.

### Features/Benefits:

- Solid state SmartSpot visual blown fuse 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 brand 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

### Highlights:

- SmartSpot 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 P7*



### Ratings:

**Volts** : 600VAC or less  
: 500VDC or less

**Amps** : 1 to 600A

**IR** : 200kA I.R. AC  
: 100kA I.R. DC

(Self-certified for 600VAC, 300kA I.R., UL witnessed).

### 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
- DC tested to UL standard 248



# AJT Time-delay/Class J

## Catalog Numbers (amps)

AJT1	AJT4-1/2	AJT25	AJT125
AJT1-1/4	AJT5	AJT30	AJT150
AJT1-1/2	AJT5-6/10	AJT35	AJT175
AJT1-6/10	AJT6	AJT40	AJT200
AJT1-8/10	AJT6-1/4	AJT45	AJT225
AJT2	AJT7	AJT50	AJT250
AJT2-1/4	AJT8	AJT60	AJT300
AJT2-1/2	AJT9	AJT70	AJT350
AJT2-8/10	AJT10	AJT80	AJT400
AJT3	AJT12	AJT90	AJT450
AJT3-2/10	AJT15	AJT100	AJT500
AJT3-1/2	AJT17-1/2	AJT110	AJT600
AJT4	AJT20		

Note: SmartSpot visual indicator is not available (1-7A)

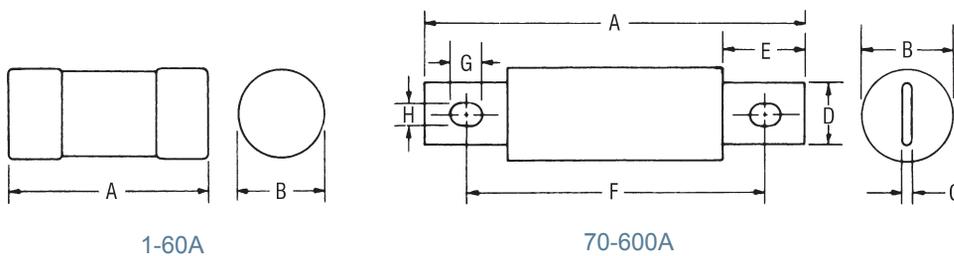
## Recommended Fuse Blocks With Box Connectors for Amp-Trap® Class J Fuses

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

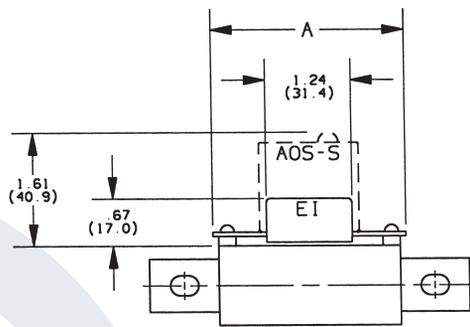
A variety of pole configurations and termination provisions are available, see section H.

## 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 J6 for details.

Catalog Number	A
AJT (70-100)-EI	2.8 (71.0)
AJT (110-200)-EI	3.22 (81.8)
AJT (225-400)-EI	3.24 (82.2)
AJT (450-600)-EI	3.61 (91.8)

# ATM Fast-Acting Midget Fuses

Amp-Trap® midget fast-acting ATM fuses are rated 600 volts AC and DC, with a 100kA interrupting rating. These ratings give the ATM a wide range of applications not covered by other midget fuses. In addition, ratings of 30/35, 30/40 and 30/50 amperes are offered for specific applications such as capacitor protection. These ATM fuses must still be considered 30A fuses because of their dimensions, but are able to withstand much higher inrush currents and tougher duty cycles. (Not for Branch Circuit Protection).

## Features/Benefits:

- For supplemental protection of small motors and transformers
- Extended ratings for special protection of capacitors and circuits with high inrush currents
- 600VDC ratings for a wide variety of applications including photovoltaic and solar applications.
- Can be used with UltraSafe™ fuse holders
- 1 1/2" x 13/32" (10mm x 38mm) dimensions

## Highlights:

- Fast-acting
- Special Ratings (Above 30A)

## Applications:

- Supplemental protection of circuits up to 600VAC and 600VDC with 100kA I.R.

## Catalog Numbers (amps)

ATM1/10	ATM6
ATM1/8	ATM7
ATM2/10	ATM8
ATM1/4	ATM10
ATM1/2	ATM12
ATM3/4	ATM15
ATM1	ATM20
ATM1-1/2	ATM25
ATM2	ATM30
ATM3	ATM30/35*
ATM4	ATM30/40*
ATM5	ATM30/50*

\* are not continuous current rated devices

## Recommended Fuse Blocks for Midget (10x38mm) Fuses

Number of Poles	UltraSafe™ Indicating Fuse Holder	Catalog Number		
		Screw Connector	Pressure Plate Connector	Copper Box Connector
Adder		30310	30320	30350
1	USM1I	30311	30321	30351
2	USM2I	30312	30322	30352
3	USM3I	30313	30323	30353
3	USFM10I			



## Ratings:

- Volts** : 600VAC / DC  
**Amps** : 1/10 to 30A  
 : (35 to 50A AC only)  
**I.R.** : 100kA I.R.  
 : 10kA I.R. AC (35 to 50A)

## Approvals:

- UL listed to standard 248-14 (1/10 to 30A) File E33925
- DC Listed to UL Standard 248-14 (1/10 to 30A)
- CSA Certified to Standard C22.2 No. 248.14 (1/10 to 30A)



# ATQ Time-Delay Midget Fuses

Amp-Trap® ATQ midget time-delay fuses are rated a full 500 volts AC with 42 ampere ratings from 1/10 to 30A. They are an excellent choice for supplemental protection of circuits up to 30A where the available short circuit current does not exceed 10,000A. (Not for Branch Circuit Protection).

## Features/Benefits:

- Numerous ratings for a wide variety of applications up to 500VAC
- Time-delay (12 seconds at 200% rating) for circuits with high inrush current
- Can be used with UltraSafe™ Fuse holders
- 1 1/2" x 13/32" (10mm x 38mm) dimensions

## Highlights:

- Time-delay

## Applications:

- Supplemental protection of lighting, solenoid, motor and transformer circuits

## Catalog Numbers (amps)

ATQ1/10	ATQ3/10	ATQ1-1/8	ATQ2	ATQ3-2/10	ATQ6	ATQ12
ATQ1/8	ATQ4/10	ATQ1-1/4	ATQ2-1/8	ATQ3-1/2	ATQ6-1/4	ATQ14
ATQ15/100	ATQ1/2	ATQ1-4/10	ATQ2-1/4	ATQ4	ATQ7	ATQ15
ATQ3/16	ATQ6/10	ATQ1-1/2	ATQ2-1/2	ATQ4-1/2	ATQ8	ATQ20
ATQ2/10	ATQ8/10	ATQ1-6/10	ATQ2-8/10	ATQ5	ATQ9	ATQ25
ATQ1/4	ATQ1	ATQ1-8/10	ATQ3	ATQ5-6/10	ATQ10	ATQ30

## Recommended Fuse Blocks for Midget (10x38mm) Fuses

Number of Poles	UltraSafe™ Indicating Fuse Holder	Catalog Number		
		Screw Connector	Pressure Plate Connector	Copper Box Connector
Adder		30310	30320	30350
1	USM1I	30311	30321	30351
2	USM2I	30312	30322	30352
3	USM3I	30313	30323	30353
3	USFM10I			



## Ratings:

Volts : 500VAC  
 Amps : 1/10 to 30A  
 I.R. : 10kA I.R.

## Approvals:

- UL listed to standard 248-14 File E33925
- CSA Certified to Standard C22.2 No. 248.14

