



Product Catalog

UL Fuses: General Purpose

COOPER Circuit Protection



General Catalog Contents

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UL Fuses: General Purpose

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Catalog No. MCL (0.1 - 30A)
600Vac or Less
Fast-Acting

Amp Ratings				
MCL				
0.1	0.75	3.5	9	30
0.125	1	4	10	—
0.2	1.5	5	12	—
0.25	2	6	15	—
0.3	2.5	7	20	—
0.5	3	8	25	—

Dimensions - inches		
Amps	Ferrule	Length
0.1 - 30	13/32	1-1/2

MCL Specifications
Fast-Acting

Voltage Rating: 600Vac

Amp Rating: 0.1 - 30 Amps

Interrupting Rating: 100kA RMS Amps

Agency Approvals:
(0.1 - 30) UL Listed, File E162443
(0.1 - 30) CSA Cert., LR700489

Benefits:

- Compact dimensions.
- High interrupting rating.
- Fast-acting design responds quickly to both overloads and short-circuit current.

Applications:

- Street lighting holders, HID lighting, control circuits, electronic equipment protection.

Recommended Fuse Blocks: Page 151. **Recommended Inline Fuse Holders:** Page 147. **Recommended Panel Mount Holders:** Page 150.



Catalog No. MOL (0.5 - 30A)
250Vac or Less
Fast-Acting

Amp Ratings				
MOL				
0.5	2.5	6	10	25
1	3	6.5	12	30
1.5	4	8	15	—
2	5	9	20	—

Dimensions - inches		
Amps	Ferrule	Length
0.5 - 30	13/32	1-1/2

MOL Specifications
Fast-Acting

Voltage Rating: 0.5-15Amps, 250Vac
20-30Amps, 125Vac

Amp Rating: 0.5 - 30 Amps

Interrupting Rating:
10kA @ 125Vac 20-30A
35A @ 250Vac 0.5-1A
100A @ 250Vac 1.5-6A
200A @ 250Vac 6.5-10A
750A @ 250Vac 12-15A

Agency Approvals:
(0.5 - 30) UL Listed, File E162443
(0.5 - 30) CSA Cert., LR700489

Benefits:

- Compact dimensions.
- Economical laminated paper tube design.

Applications:

- Supplemental protection for non-inductive control and lighting circuits.



Catalog No. EBS (0.2 - 10A)
0.2 - 5A 600Vac or Less
6 - 10A 250Vac or Less
Fast-Acting

Amp Ratings				
EBS				
0.2	0.8	1.8	5	10
0.4	1	2	6	—
0.5	1.5	3	7	—
0.75	1.6	4	8	—

Dimensions - inches		
Amps	Ferrule	Length
0.2 - 10	13/32	1-3/8

EBS Specifications
Fast-Acting

Voltage Rating: 0.2-5 Amps, 600Vac
6-10 Amps, 250Vac

Amp Rating: 0.2 - 10 Amps

Interrupting Rating: 10kA RMS Amps

Agency Approvals:
UL Listed, File E162443
CSA Cert., LR700489

Benefits:

- Compact dimensions.
- Shorter than standard midget dimensions.
- Economical design.

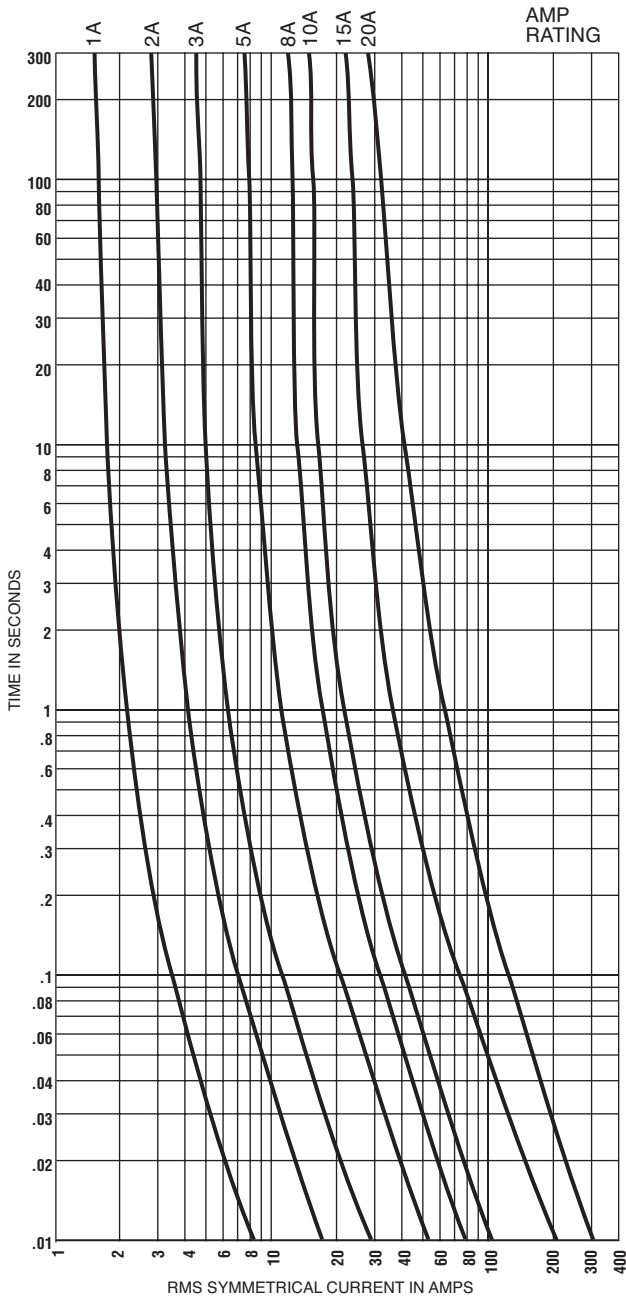
Applications:

- Supplemental protection for non-inductive control and lighting circuits.

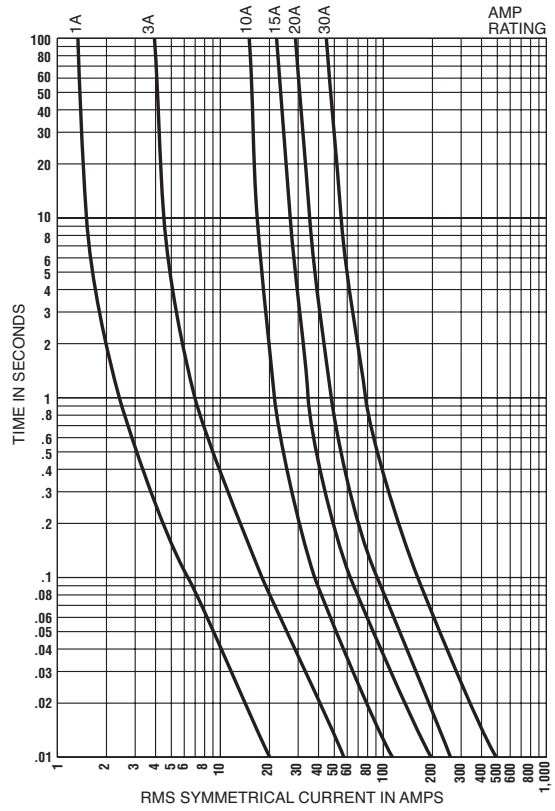
Recommended Panel Mount Holders:
Refer to page 150 in this catalog.

Average Time-Current Curve

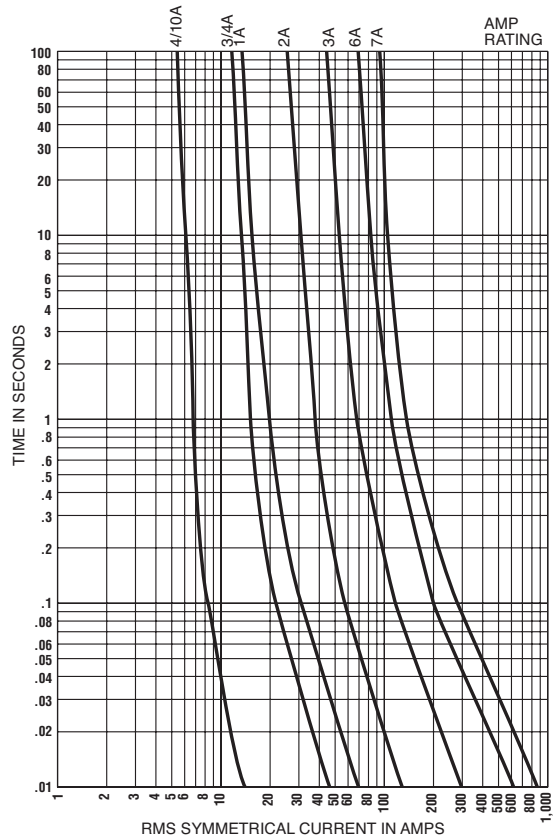
Cat. No. MCL (Amp)



Cat. No. MOL (Amp)



Cat. No. EBS (Amp)





**Catalog No. MEQ (0.1 - 30A)
500Vac or Less
Time-Delay**

Amp Ratings				
MEQ				
0.1	0.6	2.25	5.6	15
0.125	0.8	2.5	6	20
0.15	1	3	6.25	25
0.2	1.125	3.2	7	30
0.25	1.25	3.5	8	—
0.3	1.5	4	9	—
0.4	1.6	4.5	10	—
0.5	2	5	12	—

Dimensions - inches		
Amps	Ferrule	Length
0.1 - 30	13/32	1-1/2

MEQ Specifications

Time-Delay

Voltage Rating: 500Vac
Amp Rating: 0.1 - 30 Amps
Interrupting Rating: 10kA RMS Amps
Agency Approvals:
 (0.1 - 30) UL Listed, File E162443
 (0.1 - 30) CSA Cert, LR700489

Benefits:

- Compact dimensions.
- Fiber tube construction.
- Time-delay allows harmless inductive surges to pass without needless fuse opening.

Applications:

- Supplemental protection of transformers, solenoids, and other high inrush circuits.
- For motor applications, refer to EDCC.

Recommended Fuse Blocks: Page 151. **Recommended Inline Fuse Holders:** Page 147. **Recommended Panel Mount Holders:** Page 150.



**Catalog No. MEN (0.1 - 30A)
250Vac or Less
Time-Delay**

Amp Ratings				
MEN				
0.1	0.8	2	4.5	10
0.15	1	2.25	5	12
0.2	1.125	2.5	5.6	15
0.25	1.25	2.8	6	20
0.3	1.4	3	6.25	25
0.4	1.5	3.2	7	30
0.5	1.6	3.5	8	—
0.6	1.8	4	9	—

Dimensions - inches		
Amps	Ferrule	Length
0.1 - 30	13/32	1-1/2

MEN Specifications

Time-Delay

Voltage Rating: 250Vac
Amp Rating: 0.5 - 30 Amps
Interrupting Rating: 10kA RMS Amps @ 125V
Agency Approvals:
 UL Listed, File E162443
 CSA Cert., LR700489

Benefits:

- Compact dimensions.
- Fiber tube construction.
- Dual-element construction allows harmless inductive surges to pass without opening.

Applications:

- Supplemental protection of small motors, transformers, solenoids, and other high inrush power electronic circuits.



**Catalog No. MID (0.1 - 30A)
0.1 - 0.8A 250Vac or Less
1 - 15A 125Vac or Less
20 - 30A 32Vac or Less
Pin Indicating - Time-Delay**

Amp Ratings				
MID				
0.1	1	2.25	5.6	15
0.15	1.125	2.5	6	20
0.2	1.25	2.8	6.25	25
0.3	1.4	3	7	30
0.4	1.5	3.2	8	—
0.5	1.6	3.5	9	—
0.6	1.8	4	10	—
0.8	2	5	12	—

Dimensions - inches		
Amps	Ferrule	Length
0.1 - 30	13/32	1-1/2

NOTE: 12-30 amp is dual-tube construction.

MID Specifications

Pin Indicating — Time-Delay

Voltage Rating: 0.1 - 0.8 Amps, 250Vac
 1 - 15 Amps, 125Vac
 20 - 30 Amps, 32Vac
Amp Rating: 0.1 - 30 Amps

Interrupting Rating:
 10kA @ 125Vac (1/10-15A)
 1000A @ 32Vac (20-30A)
 35A @ 280Vac (1/10-8/10A)

Agency Approvals:
 UL Listed, File E162443
 CSA Cert., LR700489

Benefits:

- Compact dimensions.
- Silver-plated pin indicates when fuse is opened. Provides positive electrical signal activation.

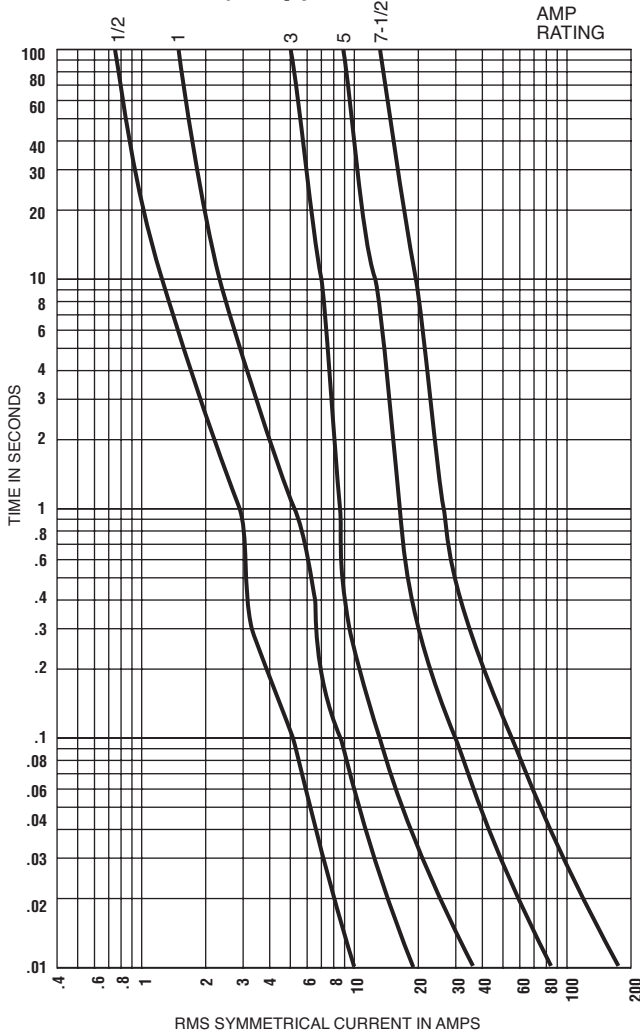
Applications:

- Supplemental protection for high inrush power electronic circuits.

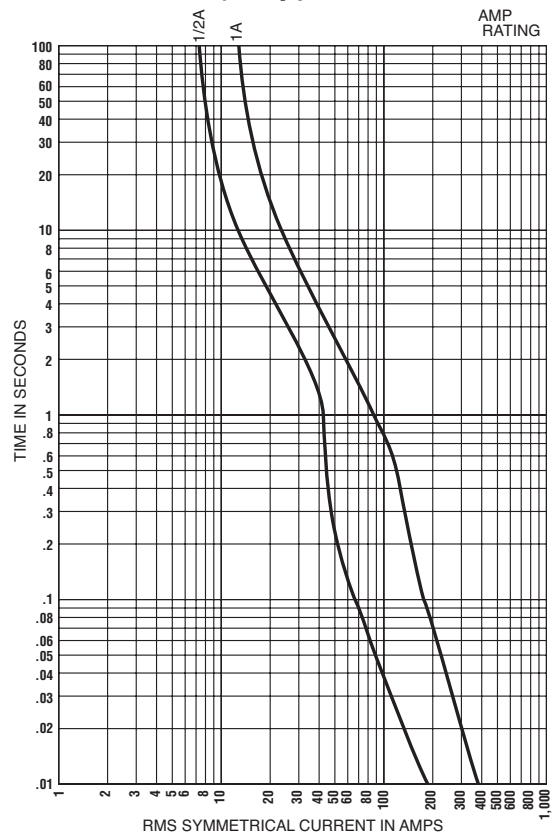
Recommended Fuse Blocks:
 Refer to page 135 in this catalog.

Average Time-Current Curve

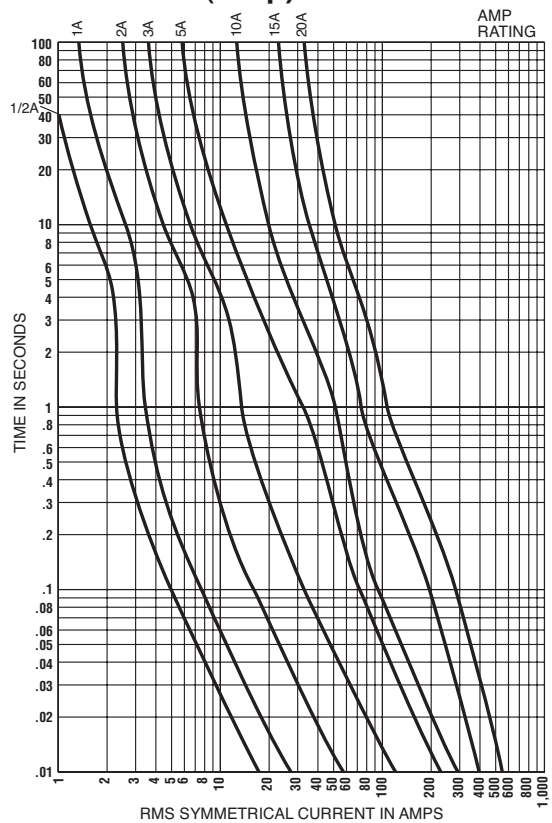
Cat. No. MEQ (Amp)



Cat. No. MEN (Amp)



Cat. No. MID (Amp)





Catalog Number KON (1 - 600A) 250Vac or Less
Catalog Number KOS (1 - 600A) 600Vac or Less

Amp Ratings					
KON 250Vac					
1	7	25	60	125	300
2	8	30	70	150	350
3	10	35	80	175	400
4	12	40	90	200	450
5	15	45	100	225	500
6	20	50	110	250	600
KOS 600Vac					
1	7	25	60	125	300
2	8	30	70	150	350
3	10	35	80	175	400
4	12	40	90	200	450
5	15	45	100	225	500
6	20	50	110	250	600

Self-Certified DC Ratings:

Voltage Rating:	KON (1-600A)	250Vdc
	KOS (1-30A)	600Vdc
	KOS (35-60A)	300Vdc
	KOS (70-600A)	600Vdc

Interrupting Rating: 10,000 Amps DC @ Rated Voltage

KON/KOS Specifications

“One-Time”, Fast-Acting

Voltage Rating: KON - 250Vac, KOS - 600Vac

Amp Rating: 1 - 600 Amps

Interrupting Rating:

KON 1-60A	Class K5	50,000 RMS Symmetrical Amps
KON 70-600A	Class H	10,000 RMS Symmetrical Amps
KOS 1-12A	Class H	10,000 RMS Symmetrical Amps
KOS 15-60A	Class K5	50,000 RMS Symmetrical Amps
KOS 70-600A	Class H	10,000 RMS Symmetrical Amps

Agency Approvals:

UL Listed, Class K5, UL248-9, File E162363
UL Listed, Class H, UL248-6, File E162363
CSA Certified* HRC-K5 per C22.22, No. 248.9, LR700489
CSA Certified HRC-H per C22.22, No. 248.6, LR700489

***NOTE:** KON15 - 60 are not CSA Certified. Refer to PONC for use in CANADA.

Benefits:

- Economical, for general purpose use.

Applications:

- Lighting or heating circuits not subject to high levels of inrush current.
- Circuits having relatively low levels of available short-circuit current.
- For motor applications, refer to Edison ECNR/ECNR.

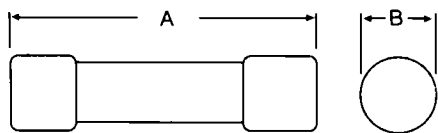
Recommended Fuse Blocks:

Refer to page 124 in this catalog.

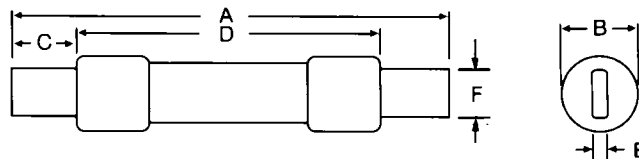
Recommended Upgrade:

ECNR/ECNR or LENRK/LESRK.

Dimensions - inches



Ferrule Design—1 through 60 Amps

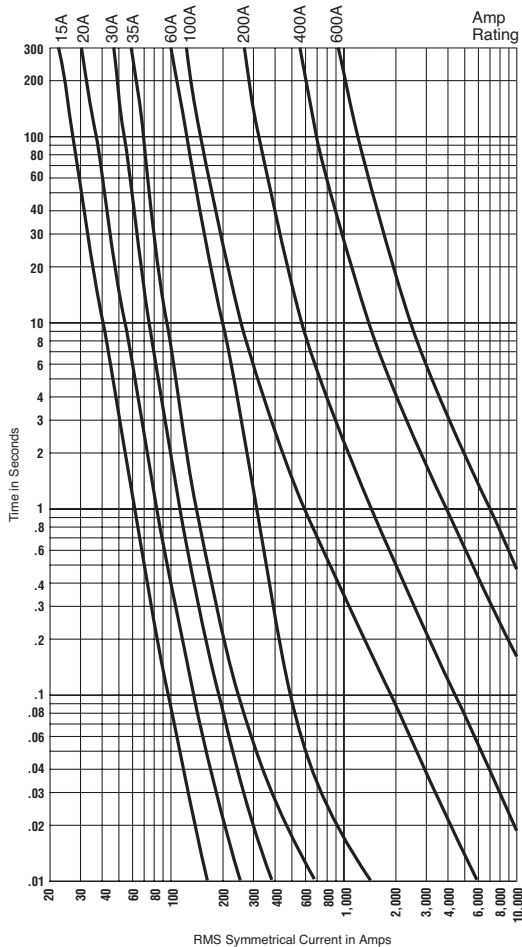


Knife Blade—70 through 600 Amps

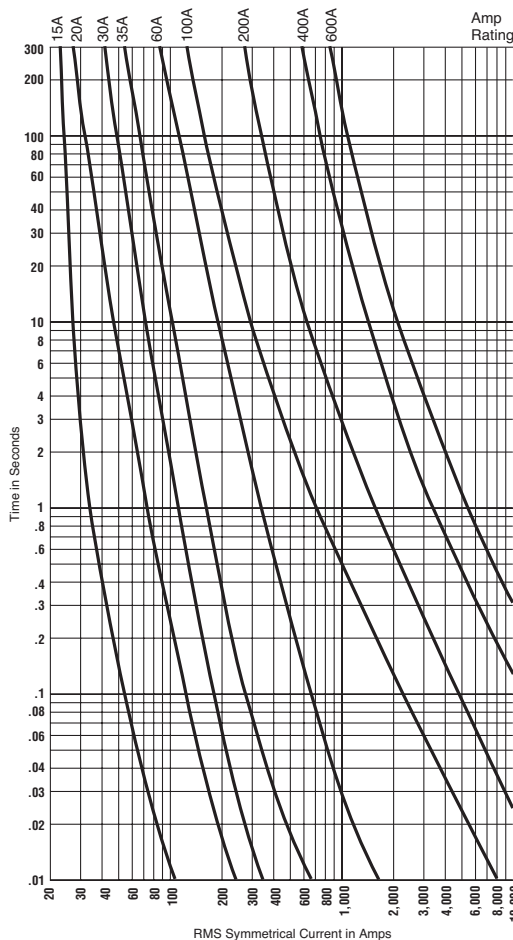
Volts and Catalog Number	Amps	Overall	Max. Diameter	Min. Blade Length	Min. Barrel Length	Blade Thickness	Blade Width
		A	B	C	D	E	F
KON 250Vac	1-30	2	9/16	-	-	-	-
	35-60	3	13/16	-	-	-	-
	70-100	5-7/8	1-1/16	1	-	1/8	3/4
	110-200	7-1/8	1-5/8	1-3/8	4-1/8	3/16	1-1/8
	225-400	8-5/8	1-15/16	1-7/8	4-5/8	1/4	1-5/8
KOS 600Vac	450-600	10-3/8	2-5/16	2-1/4	5-3/16	1/4	2
	1-30	5	13/16	-	-	-	-
	35-60	5-1/2	1-1/16	-	-	-	-
	70-100	7-7/8	1-1/16	1	-	1/8	3/4
	110-200	9-5/8	1-5/8	1-3/8	6-1/8	3/16	1-1/8
225-400	11-5/8	2-3/4	1-7/8	7-1/8	1/4	1-5/8	
	450-600	13-3/8	3-1/4	2-1/4	8-3/16	1/4	2

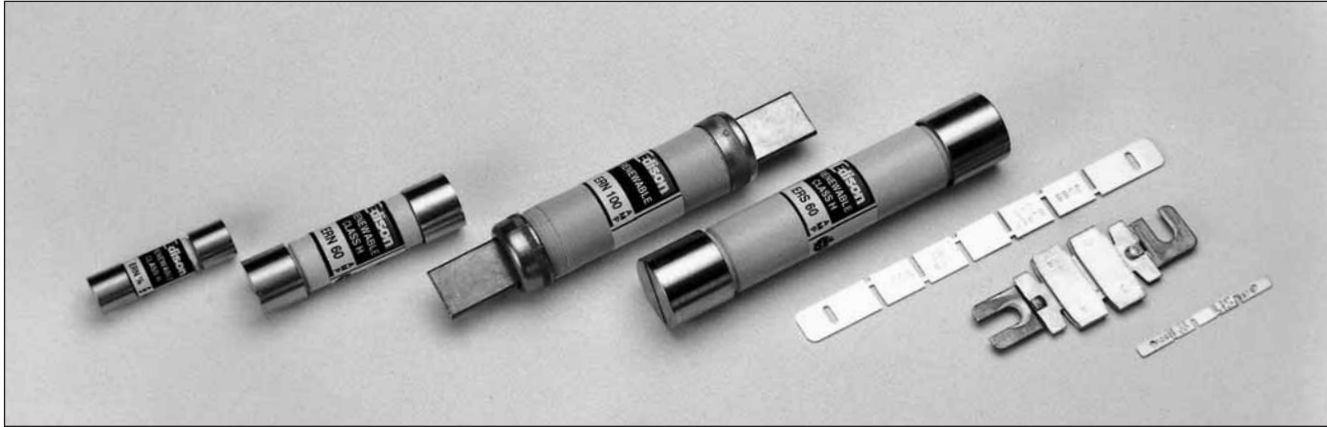
Average Time-Current Curve

Cat. No. KON (Amp) 250Vac



Cat. No. KOS (Amp) 600Vac





Catalog Number ERN (3 - 600A) 250Vac or Less
Catalog Number ERS (3 - 600A) 600Vac or Less

Amp Ratings					
ERN 250V					
3	15	45	100	225	500
5	20	50	110	250	600
6	25	60	125	300	—
7	30	70	150	350	—
10	35	80	175	400	—
12	40	90	200	450	—
ERS 600V					
3	12	40	90	225	600
5	15	45	100	250	—
6	20	50	125	300	—
7	25	60	150	400	—
8	30	70	175	450	—
10	35	80	200	500	—

ERN/ERS Specifications

“Renewable”

Voltage Rating: ERN - 250Vac, ERS - 600Vac

Amp Rating: 3 - 600 Amps

Interrupting Rating: 10,000 RMS Symmetrical Amps

Benefits:

- Economical, for general purpose use.
- Time-lag design sustains overloads better than other Class H fuses.

Applications:

- Circuits having relatively low levels of available short-circuit current.
- Industrial and commercial applications having frequent outages where a renewable type fuse is desired.
- For motor applications, refer to Edison ECNR/EC SR.

Recommended Fuse Blocks:

Refer to page 124 in this catalog.

Recommended Upgrade:

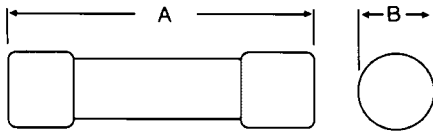
ECNR/EC SR or LENRK/LES RK.

Replacement Links for Renewable Type Fuses

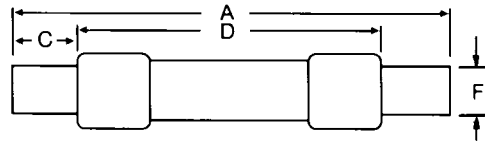
Catalog Number ELNE (Amp) 250 Volts for ERN Fuses
Catalog Number ELS (Amp) 600 Volts for ERS Fuses

Amp Ratings
Refer to respective table above.

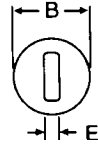
Dimensions - inches



Ferrule Design—3 through 60 Amps



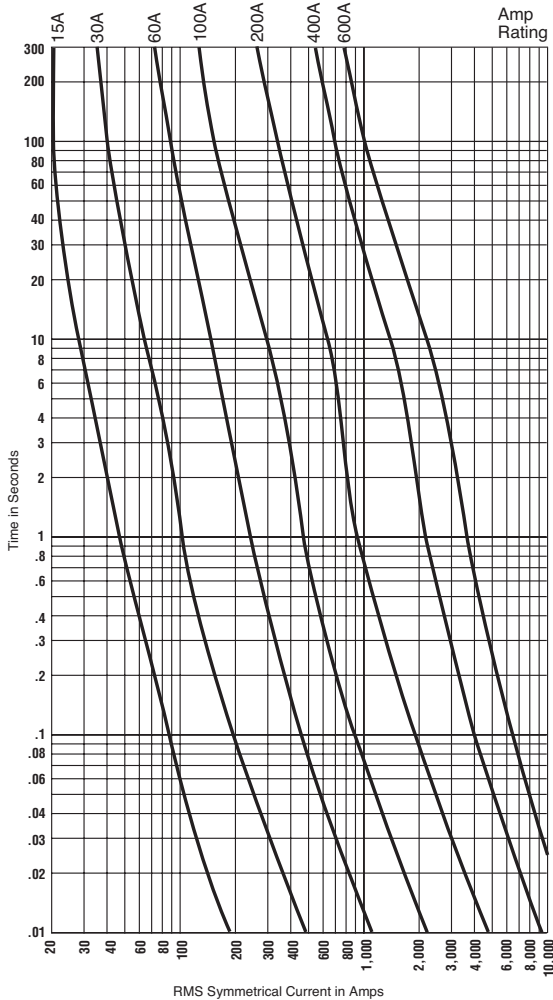
Knife Blade—70 through 600 Amps



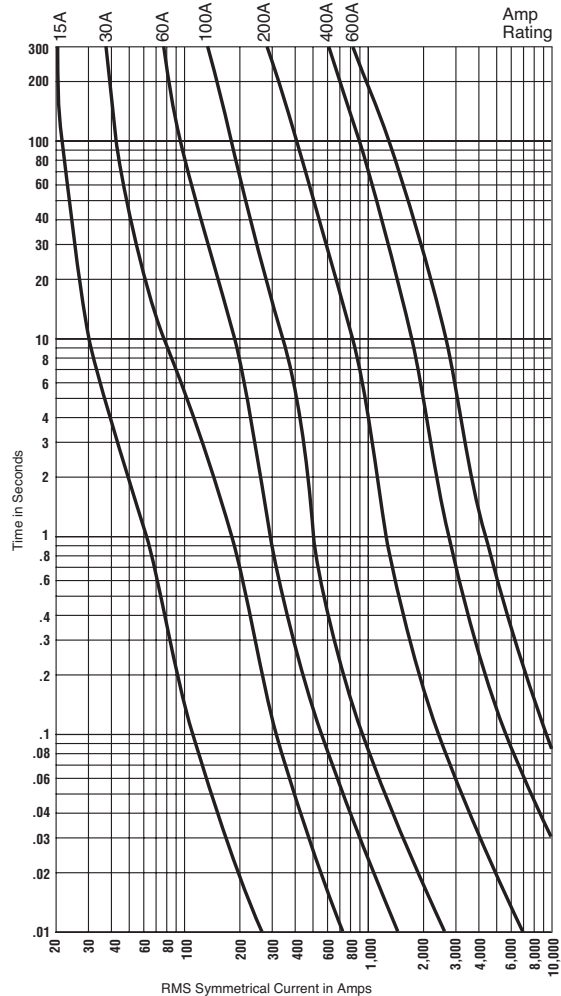
Volts and Catalog Number	Amps	Overall	Max. Diameter	Min. Blade Length	Min. Barrel Length	Blade Thickness	Blade Width
		A	B	C	D	E	F
ERN 250Vac	3-30	2	9/16	-	-	-	-
	35-60	3	13/16	-	-	-	-
	70-100	5-7/8	-	1	-	1/8	3/4
	110-200	7-1/8	-	1-3/8	4-1/8	3/16	1-1/8
	225-400	8-5/8	-	1-7/8	4-5/8	1/4	1-5/8
ERS 600Vac	450-600	10-3/8	-	2-1/4	5-3/16	1/4	2
	3-30	5	13/16	-	-	-	-
	35-60	5-1/2	1-1/16	-	-	-	-
	70-100	7-7/8	-	1	-	1/8	3/4
	110-200	9-5/8	-	1-3/8	6-1/8	3/16	1-1/8
225-400	11-5/8	-	1-7/8	7-1/8	1/4	1-5/8	
	450-600	13-3/8	-	2-1/4	8-3/16	1/4	2

Average Time-Current Curves

Cat. No. ERN (Amp) 250V



Cat. No. ERS (Amp) 600V





Catalog Number S (1/4 - 30A)
125Vac or Less
Rejection Base
Dual-Element, Time-Delay

Amp Ratings					
S (Amp)					
1/4	1	2	3-1/2	6-1/4	14
3/10	1-1/8	2-1/4	4	7	15
4/10	1-1/4	2-1/2	4-1/2	8	20
1/2	1-4/10	2-8/10	5	9	25
6/10	1-6/10	3	5-6/10	10	30
8/10	1-8/10	3-2/10	6	12	—

S Specifications

Dual-Element, Time-Delay

Voltage Rating: 125Vac

Amp Rating: 1/4 - 30 Amps

Interrupting Rating: 10,000 RMS Symmetrical Amps

Agency Approvals:

UL Listed, (0 - 6-1/4) Guide JFHR, File E56412

(1 - 30) Guide JEFV, File 12112

CSA Certified per C22.2, No. 248.4

Benefits:

- Size rejection feature helps to prevent overfusing.
- Heavy duty dual-element construction.
- Superior overload and short-circuit protection.



Catalog Number SL (15 - 30A)
125Vac or Less
Rejection Base
Time-Delay

Amp Ratings			
SL (Amp)			
15	20	25	30

SL Specifications

Time-Delay

Voltage Rating: 125Vac

Amp Rating: 15 - 30 Amps

Interrupting Rating: 10,000 RMS Symmetrical Amps

Agency Approvals:

UL Listed, Guide JEFV, File 12112

Benefits:

- Size rejection feature helps to prevent overfusing.
- Time-delay construction withstands light motor loads.
- For upgrade refer to "S" fuse.



Catalog Number W (1/2 - 12A)
125Vac or Less
Edison Base
Fast-Acting

Amp Ratings				
W (Amp)				
1/2	2	4	6-1/2	10
1	2-1/2	5	7	12
1-8/10	3	6	8	—

W Specifications

Fast-Acting

Voltage Rating: 125Vac

Amp Rating: 1/2 - 12 Amps

Interrupting Rating: 10,000 RMS Symmetrical Amps

Agency Approvals:

UL Listed, Guide JEFV, File E 12112

Benefits:

- General purpose for non-inductive lighting and heating loads.
- Economical.
- Edison base threads into non-rejection fuse receptacles.

Obsoleted W-15 through W-30 plug fuses are replaced with T and TL plug fuses.



Catalog Number SA (1 - 30A)
Rejection Base Fuse Adapter

Adapter Sizes				
SA (Amp)				
1	2	4	8	20
1-1/4	2-1/2	4-1/2	10	30
1-6/10	3-2/10	6-1/4	15	—

Rejection base fuses (Type S and SL) require adapters to be used in standard Edison base sockets. Once installed, rejection base adapters accept only rejection base fuses which prevents the wrong fuse size from being used.

Dual-Element Type S Fuses and Adapters for Small Motor Protection. (Both Motor Running and Short-Circuit Protection)

Fuse Cat. No.	Adapter Cat. No.	Other Accepted Amp Rating
S3/10, S1/2, S8/10	SA-1	1 amp and smaller
S4/10, S6/10, S1		
S1-1/8, S1-1-1/4	SA-1-1/4	All smaller
S1-4/10, S1-6/10	SA-1-6/10	All smaller
S1-8/10, S2	SA-2	—
S2-1/4, S2-1/2	SA-2-1/2	1-8/10, 2
S2-8/10, S3-2/10	SA-3-2/10	1-8/10 thru 2-1/2
S3-1/2, S4	SA-4	—
S4-1/2, S5	SA-4-1/2	3-1/2, 4
S5-6/10, S6-1/4	SA-6-1/4	3-1/2 thru 5
S7, S8	SA-8	—
S9, S10	SA-10	7, 8
S12, S14	SA-15	7, 8, 9, 10
Branch Circuit Protection		
S15	SA-15	—
S20	SA-20	—
S25	SA-30	—
S30	SA-30	20, 25, 30



Catalog Number T (3/10 - 30A)
125Vac or Less
Edison Base
Dual-Element, Time-Delay

Amp Ratings T (Amp)					
3/10	1-1/8	2-1/4	4	7	15
4/10	1-1/4	2-1/2	4-1/2	8	20
1/2	1-4/10	2-8/10	5	9	25
6/10	1-6/10	3	5-6/10	10	30
8/10	1-8/10	3-2/10	6	12	—
1	2	3-1/2	6-1/4	14	—

T Specifications

Dual-Element, Time-Delay

Voltage Rating: 125Vac

Amp Rating: 3/10 - 30 Amps

Interrupting Rating: 10,000 RMS Symmetrical Amps

Agency Approvals:

UL Listed, Guide JEFV, File E 12112

Benefits:

- Heavy duty dual-element construction for motor circuits.
- Edison base threads into non-rejection fuse receptacles.
- Superior overload and short-circuit protection.

Recommended Box Cover Units:

Refer to page 137 in this catalog.



Catalog Number TL (15 - 30A)
125Vac or Less
Edison Base
Time-Delay

Amp Ratings TL (Amp)			
15	20	25	30

TL Specifications

Time-Delay

Voltage Rating: 125Vac

Amp Rating: 15 - 30 Amps

Interrupting Rating: 10,000 RMS Symmetrical Amps

Agency Approvals:

UL Listed, Guide JEFV, File 12112

Benefits:

- Time-delay construction withstands light motor loads.
- Edison base threads into non-rejection fuse receptacles.
- For upgrade refer to "T" fuse.

Recommended Box Cover Units:

Refer to page 137 in this catalog.



Catalog Number TC (15 - 30A)
125 Volts AC or Less
Edison Base
Dual-Element, Time-Delay

Amp Ratings			
TC (Amp)			
15	20	25	30

TC Specifications

Dual-Element, Time-Delay

Voltage Rating: 125Vac

Amp Rating: 15 - 30 Amps

Agency Information:
CSA Certified (Class 1423-01, File # 53787)

- Benefits:**
- “D” rating for Canadian applications.
 - Heavy Duty TC fuses are industrial strength products, featuring Bussmann’s exclusive Dual-Element construction.
 - This spring loaded design provides superior short-circuit and overload protection.
 - The TC fuses have more time-delay than the medium duty fuses in order to better protect industrial motors and optical residential circuits.

Recommended Box Cover Units:
Refer to page 137 in this catalog.



Catalog Number P (15 - 30A)
125 Volts AC or Less
Edison Base
Dual-Element, One-Time

Amp Ratings			
P (Amp)			
15	20	25	30

P Specifications

Dual-Element, One-Time

Voltage Rating: 125Vac

Amp Rating: 15 - 30 Amps

- Benefits:**
- For non-inductive loads.
 - Edison base threads into non-rejection fuse receptacles.

Recommended Box Cover Units:
Refer to page 137 in this catalog.

5 x 20mm — IEC Standards



Cat. No. S501 (GDA)* (50mA-10A)
S501-V (GDA-V)* (axial leads)

Specifications

Description: Fast-acting, high-breaking capacity fuse.

Construction: Ceramic tube, nickel-plated brass endcaps.

Ratings:

Volts — 250Vac (or less)

Amps — 50mA-10A**

IR — 1500A @ 250Vac

Agency Information: CE, cURus, SEMKO, VDE, IMQ, CCC, CSA, BSI.

Not all approvals apply to all ratings.

Features and Benefits

- Fast-acting for maximum protection.
- High break capacity for use in higher fault energy electronic circuitry.
- Conforming to IEC standards.

Typical Applications

- Electronic Circuits

Catalog Numbers (Amps)

Catalog Numbers	I ² t	Typical Voltage Drop (mV)
S501-50-R	0.0017	9000
S501-63-R	0.0005	3300
S501-80-R	0.0011	2600
S501-100-R	0.0018	2300
S501-125-R	0.0037	1900
S501-160-R	0.008	1600
S501-200-R	0.020	1350
S501-250-R	0.027	1300
S501-315-R	0.010	1400
S501-400-R	0.018	1200
S501-500-R	0.038	1050
S501-630-R	0.064	1200
S501-800-R	0.097	490
S501-1-R	0.146	330
S501-1.25-R	0.313	297
S501-1.6-R	0.748	239
S501-2-R	2.0	205
S501-2.5-R	3.9	190
S501-3.15-R	8.1	160
S501-4-R	14	160
S501-5-R	25	155
S501-6.3-R	48	150
S501-8-R	N/A	N/A
S501-10-R	N/A	N/A

Options

Axial leads, put "V" in P/N.

*GDA series is not available in RoHS compliant construction.

**GDA is not available above 6.3A.



Cat. No. S500 (GDB)* (32mA-10A)
S500-V (GDB-V)* (axial leads)

Specifications

Description: Fast-acting, low-breaking capacity fuse.

Construction: Glass tube, nickel-plated brass endcaps.

Ratings:

Volts — 250Vac (or less)

Amps — 32mA-10A

IR — See catalog table

Agency Information: CE, cURus, CSA, SEMKO, VDE, BSI, IMQ, CCC.

Not all approvals apply to all ratings.

Features and Benefits

- Fast-acting for maximum protection, conforms to IEC standards.

Typical Applications

- Electronic Circuits

Catalog Numbers (Amps)

Catalog Numbers	IR (Amps)	I ² t	Max Voltage Drop (mV)
S500-32-R	35	0.000047	3200
S500-40-R	35	0.00011	2500
S500-50-R	35	0.00020	2400
S500-63-R	35	0.00057	2000
S500-80-R	35	0.0012	1200
S500-100-R	35	0.003	1100
S500-125-R	35	0.005	1000
S500-160-R	35	0.008	2000
S500-200-R	35	0.016	1700
S500-250-R	35	0.028	1400
S500-315-R	35	0.058	1300
S500-400-R	35	0.018	1100
S500-500-R	35	0.018	220
S500-630-R	35	0.035	220
S500-800-R	35	0.067	190
S500-1-R	35	0.60	200
S500-1.25-R	35	0.84	200
S500-1.6-R	35	1.6	190
S500-2-R	35	4.2	150
S500-2.5-R	35	6.1	150
S500-3.15-R	35	13	130
S500-4-R	40	22	130
S500-5-R	50	42	120
S500-6.3-R	63	69	120
S500-8-R	80	---	120
S500-10-R	100	---	120

Options

Axial leads, put "V" in P/N,

*GDB series is not available in RoHS compliant construction.



Cat. No. S506 (GDC)*
S506-V (GDC-V)* (axial leads)

Specifications

Description: Time-delay, low-breaking capacity fuse.

Construction: Glass tube, nickel-plated brass endcaps.

Ratings:

Volts — 250Vac (or less)

Amps — 32mA-15A**

IR — 35A @ 250Vac

Agency Information: UR, CSA, cURus, SEMKO, VDE, BSI, IMQ, MITI/JET, CCC.

Not all approvals apply to all ratings.

Features and Benefits

- Time-delay compatibility for inductive circuits.
- Conforming to IEC standards.

Typical Applications

- Electronic Circuits

Catalog Numbers (Amps)

Catalog Numbers	Typical I ² t	Max Voltage Drop (mV)
S506-32-R	0.0051	1050
S506-40-R	0.0072	920
S506-50-R	0.0095	800
S506-63-R	0.021	760
S506-80-R	0.038	580
S506-100-R	0.045	490
S506-125-R	0.063	390
S506-160-R	0.093	320
S506-200-R	0.114	340
S506-250-R	0.265	270
S506-315-R	0.621	250
S506-400-R	0.872	210
S506-500-R	0.827	140
S506-630-R	1.33	150
S506-800-R	2.78	75
S506-1-R	6.45	87.5
S506-1.25-R	10.05	86
S506-1.6-R	21.7	82
S506-2-R	31.6	77
S506-2.5-R	59.4	72.5
S506-3.15-R	96.4	68.5
S506-4-R	71.8	67
S506-5-R	142.5	60.5
S506-6.3-R	237.6	54
S506-8-R	255.8	55
S506-10-R	450	54
S506-12.5-R	1019.5	45
S506-15-R	1091.7	65.5

Options

Axial leads, put "V" in P/N.

*GDC series is not available in RoHS compliant construction.

**GDC is not available above 6.3A.

5 x 20mm – N. American Standards



Cat. No. GMA (63mA-15A)

GMA-V (axial leads)

Specifications

Description:

Fast-acting fuse

Construction: Glass tube, nickel-plated brass endcaps.

Agency Information: CE, Std. 248-14 UL Listed Guide JDYX, File E19180, 0-6A, UL Recognized, Guide JDYX2, File E19180, 7-15A, CSA Certified, Class 1422-01, File E65063, 0-6.



Cat. No. GMC (50mA-10A)

GMC-V (axial leads)

Specifications

Description: Medium time-delay fuse.

Construction: Glass tube, nickel-plated brass endcaps.

Agency Information: CE, Std. 248-14, UL Listed Guide JDYX, File E19180, 0-6.3A, UL Recognized, Guide JDYX2, File E19180, 7-8A, CSA Certified, Class 1422-01, File 65063, 0-6.3A.



Cat. No. GMD (125mA-4A)

GMD-V (axial leads)

Specifications

Description: Time-delay fuse.

Construction: Glass tube, nickel-plated brass endcaps.

Agency Information: CE, UL Listed Guide JDYX, File E19180, 125mA-3A, UL Recognized, Guide JDYX2, File E19180, 4A, CSA Certified, Class 1422-01, File 53787, 0-4A, PSE/JET, File 1641-31003-1001, 1.2A-4A.



UL/CSA Fuses
Current Limiting

UL/CSA Fuses
General Purpose

Special Purpose Fuses

Canadian Fuses & Holders

Medium Voltage Fuses

Fuse Blocks, Holders & Misc.

Application Section

Catalog Number (amps)	Rated Voltage (Vac)	Vac IR (amps)	
		250	125
GMA-63-R	250	35	10,000
GMA-100-R		35	10,000
GMA-125-R		35	10,000
GMA-200-R		35	10,000
GMA-250-R		35	10,000
GMA-300-R		35	10,000
GMA-500-R		35	10,000
GMA-600-R		35	10,000
GMA-750-R		35	10,000
GMA-800-R		35	10,000
GMA-1-R		35	10,000
GMA-1.25-R		100	10,000
GMA-1.5-R		100	10,000
GMA-1.6-R		100	10,000
GMA-2-R		100	10,000
GMA-2.5-R	100	10,000	
GMA-3.15-R	125	-	10,000
GMA-3.5-R		-	10,000
GMA-4-R		-	10,000
GMA-5-R		-	10,000
GMA-6-R		-	10,000
GMA-7-R		-	200
GMA-8-R		-	200
GMA-10-R		-	150
GMA-15-R		-	150

Options

Axial leads, put "V" in P/N.

Catalog Number (amps)	Rated Voltage (Vac)	Vac IR (amps)		
		250	125	
GMC-63mA	250	35	10,000	
GMC-80mA		35	10,000	
GMC-100mA		35	10,000	
GMC-125mA		35	10,000	
GMC-150mA		35	10,000	
GMC-200mA		35	10,000	
GMC-250mA		35	10,000	
GMC-300mA		35	10,000	
GMC-315mA		35	10,000	
GMC-400mA		35	10,000	
GMC-500-R		35	10,000	
GMC-600-R		35	10,000	
GMC-630-R		35	10,000	
GMC-750-R		35	10,000	
GMC-800-R		35	10,000	
GMC-1-R		35	10,000	
GMC-1.25-R		100	10,000	
GMC-1.5-R		100	10,000	
GMC-1.6-R		100	10,000	
GMC-2-R		100	10,000	
GMC-2.5-R		100	10,000	
GMC-3.15-R		100	10,000	
GMC-3.5-R		125	-	10,000
GMC-4-R			-	10,000
GMC-5-R			-	10,000
GMC-6-R			-	10,000
GMC-6.3-R			-	200
GMC-7-R			-	200
GMC-8-R			-	200
GMC-10-R			-	200

Options

Axial leads, put "V" in P/N.

Catalog Number (amps)	Rated Voltage (Vac)	Vac IR (amps)	
		250	125
GMD-125-R	250	35	10,000
GMD-150-R		35	10,000
GMD-200-R		35	10,000
GMD-250-R		35	10,000
GMD-300-R		35	10,000
GMD-315-R		35	10,000
GMD-375-R		35	10,000
GMD-400-R		35	10,000
GMD-500-R		35	10,000
GMD-600-R		35	10,000
GMD-630-R		35	10,000
GMD-750-R		35	10,000
GMD-800-R		35	10,000
GMD-1-R		35	10,000
GMD-1.2-R		100	10,000
GMD-1.25-R		100	10,000
GMD-1.5-R		100	10,000
GMD-1.6-R		100	10,000
GMD-2-R		100	10,000
GMD-2.5-R		100	10,000
GMD-3-R		100	10,000
GMD-4-R		200	10,000

Options

Axial leads, put "V" in P/N.

1/4" x 1 1/4" Fast-Acting Fuses



Cat. No. AGC (1/2-30A)

AGC-V (axial leads)



Specifications

Description: Fast-acting fuse.

Construction: Glass tube with nickel-plated brass endcaps.

Agency Information: CE, Std. 248-14, UL Listed, Guide JDYX, File E19180, 0-10A UL Recognized, Guide JDYX2, File E19180, 15-30A CSA Certification, Class 1422-01, File 53787.

Catalog Number (amps)	Rated Voltage AC (Max.)	Vac IR (amps)*	
		250	32
AGC-1/20-R	250	35	-
AGC-1/16-R	250	35	-
AGC-1/10-R	250	35	-
AGC-1/8-R	250	35	-
AGC-3/16-R	250	35	-
AGC-1/4-R	250	35	-
AGC-3/8-R	250	35	-
AGC-1/2-R	250	35	-
AGC-3/4-R	250	35	-
AGC-1-R	250	35	-
AGC-1 1/4-R	250	100	-
AGC-1 1/2-R	250	100	-
AGC-2-R	250	100	-
AGC-2 1/4-R	250	100	-
AGC-2 1/2-R	250	100	-
AGC-3-R	250	100	-
AGC-4-R	250	200	-
AGC-5-R	250	200	-
AGC-6-R	250	200	-
AGC-7-R	250	200	-
AGC-8-R	250	200	-
AGC-9-R	250	200	-
AGC-10-R	250	200	-
AGC-15-R	32	-	1000
AGC-20-R	32	-	1000
AGC-25-R	32	-	1000
AGC-30-R	32	-	1000

*Interrupting ratings were measured at 70% - 80% power factor on AC, and at a time constant described in UL 248.

Options

Axial leads, put "V" in P/N.

Recommended Fuse Blocks:

Refer to page 151 in this catalog.

Recommended Panel Mount Holder:

Refer to page 150 in this catalog.



Cat. No. ABC (1/4-30A)

ABC-V (axial leads)



Specifications

Description: Fast-acting fuse.

Construction: Ceramic tube with nickel-plated brass endcaps.

Agency Information: CE, Std. 248-14 UL Listed, Guide JDYX File E19180, 0-15A UL Recognized, Guide JDYX2, File E19180, 20-25A CSA Certification, Class 1422-01, File 53787, 0-15A, Class 1422-30, File 53787, 20-25A.

Catalog Number (amps)	Rated Voltage		Vac IR (amps)*	
	Vac (Max.)	Vdc (Max.)	250	125
ABC-1/4-R	250	125	35	10000
ABC-1/8-R	250	125	35	10000
ABC-1/4-R	250	125	35	10000
ABC-1-R	250	125	35	10000
ABC-1 1/2-R	250	125	100	10000
ABC-2-R	250	125	100	10000
ABC-2 1/2-R	250	125	100	10000
ABC-3-R	250	125	100	10000
ABC-4-R	250	125	200	10000
ABC-5-R	250	125	200	10000
ABC-6-R	250	125	200	10000
ABC-7-R	250	125	200	10000
ABC-8-R	250	125	200	10000
ABC-10-R	250	125	200	10000
ABC-12-R	250	125	750	10000
ABC-15-R	250	125	750	10000
ABC-18-R	250	125	400	1000
ABC-20-R	250	125	400	1000
ABC-25-R	125	125	-	1000
ABC-30-R	125	125	-	1000

*Interrupting ratings were measured at 70% - 80% power factor on AC, and at a time constant described in UL 248.

DC interrupting ratings available upon request.

Options

Axial leads, put "V" in P/N.

Recommended Fuse Blocks:

Refer to page 151 in this catalog.

Recommended Panel Mount Holder:

Refer to page 150 in this catalog.



Cat. No. GBB (1-30A)

GBB-V (axial leads)



Specifications

Description: Very fast-acting fuse.

Construction: Ceramic cartridge with nickel-plated brass endcaps.

Agency Information: CE, Std. 248-14, UL Recognized, 1-30, 125Vdc/250Vac, File E56412, Guide JFHR2, CSA Accepted, 1-10, 125Vdc/250Vac, File 53787, Class 1422-01.

Catalog Number (amps)	Voltage Rating		Interrupting Rating (amps)	
	Vac	Vdc	250Vac	125Vac/dc
GBB-1-R	250	125	200	10,000
GBB-1 1/4-R	250	125	200	10,000
GBB-2-R	250	125	200	10,000
GBB-3-R	250	125	200	10,000
GBB-4-R	250	125	200	10,000
GBB-5-R	250	125	200	10,000
GBB-6-R	250	125	200	10,000
GBB-7-R	250	125	200	10,000
GBB-8-R	250	125	200	10,000
GBB-9-R	250	125	200	10,000
GBB-10-R	250	125	200	10,000
GBB-12-R	250	125	200	10,000
GBB-15-R	250	125	200	10,000
GBB-20-R	250	125	200	200
GBB-25-R	125	125	200	200
GBB-30-R	125	125	200	200

Options

Axial leads, put "V" in P/N.

Recommended Fuse Blocks:

Refer to page 151 in this catalog.

Recommended Panel Mount Holder:

Refer to page 150 in this catalog.

1/4" x 1-1/4" Time-Delay Fuses



Cat. No. MDL (1/16-30A)

MDL-V (axial leads)



Specifications

Description: Time-delay fuse.

Construction: Glass tube with nickel-plated brass endcaps.

Agency Information: CE, UL Listed, Guide JDYX, File E19180, 1/16-8A; CSA Certification Class 1422-01, 1/16-8A; UL Recognized, Guide JDYX2, File E19180, 9-30A; CSA Component Acceptance, Class 142230, 9-30A.



Cat. No. MDA (1/16-30A)

MDA-V (axial leads)



Specifications

Description: Time-delay fuse.

Construction: Ceramic tube with nickel-plated brass endcaps.

Agency Information: CE, Std. 248-14, UL Listed, Guide JDYX, File E19180, 0-15A CSA Certification, Class 1422-01, File 53787, 0-15A.

Catalog Number (amps)	Voltage Rating Vac	Vac IR (amps)		
		250	125	32
MDL-1/16-R	250	35	10000	-
MDL-1/8-R	250	35	10000	-
MDL-1/4-R	250	35	10000	-
MDL-3/8-R	250	35	10000	-
MDL-1/2-R	250	35	10000	-
MDL-3/4-R	250	35	10000	-
MDL-1-R	250	35	10000	-
MDL-1 1/2-R	250	100	10000	-
MDL-2-R	250	100	10000	-
MDL-2 1/2-R	250	100	10000	-
MDL-3-R	250	100	10000	-
MDL-4-R	250	200	10000	-
MDL-5-R	250	200	10000	-
MDL-6-R	250	200	10000	-
MDL-7-R	250	200	10000	-
MDL-8-R	250	200	10000	-
MDL-9-R	32	-	-	1000
MDL-10-R	32	-	-	1000
MDL-12-R	32	-	-	1000
MDL-15-R	32	-	-	1000
MDL-20-R	32	-	-	1000
MDL-25*	32	-	-	1000
MDL-30*	32	-	-	1000

¹Interrupting ratings were measured at 70% - 80% power factor on AC, and at a time constant described in UL 198L.
*MDL-25 & MDL-30 are not available in RoHS compliant construction.

Options

Axial leads, put "V" in P/N.

Recommended Fuse Blocks:
Refer to page 151 in this catalog.

Recommended Panel Mount Holder:
Refer to page 150 in this catalog.

Catalog Number (amps)	Voltage Rating Vac	Vac IR (amps)	
		250	125
MDA-1/16-R	250	35	10000
MDA-1/8-R	250	35	10000
MDA-1/4-R	250	35	10000
MDA-3/8-R	250	35	10000
MDA-1-R	250	35	10000
MDA-1 1/2-R	250	100	10000
MDA-2-R	250	100	10000
MDA-2 1/2-R	250	200	10000
MDA-3-R	250	200	10000
MDA-4-R	250	200	10000
MDA-5-R	250	200	10000
MDA-6-R	250	200	10000
MDA-7-R	250	200	10000
MDA-8-R	250	200	10000
MDA-10-R	250	200	10000
MDA12-R	250	750	10000
MDA-15-R	250	750	10000
MDA-20-R	250	1500	10000
MDA-25A-R	250	1500	10000
MDA-30A-R	250	1500	10000

¹Interrupting ratings were measured at 70% - 80% power factor on AC, and at a time constant described in UL 198L.
DC ratings available upon request.

Options

Axial leads, put "V" in P/N.

Recommended Fuse Blocks:
Refer to page 151 in this catalog.

Recommended Panel Mount Holder:
Refer to page 150 in this catalog.

UL/CSA Fuses
Current Limiting

UL/CSA Fuses
General Purpose

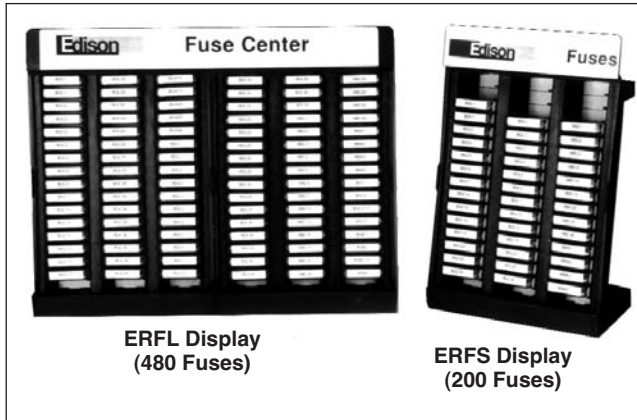
Special Purpose Fuses

Canadian Fuses & Holders

Medium Voltage Fuses

Fuse Blocks, Holders & Misc.

Application Section



Catalog Number ERFL Display (480 Fuses)
Catalog Number ERFS Display (200 Fuses)

Features:

- Edison display and fuse assortments are compact. They don't waste space. Display and storage area is minimal.
- Slots in the display racks are all labeled for easy inventory and reorder status.
- Display racks are solidly constructed.
- Each assortment has the right fuse mix per actual usage. No dead inventory.

Fuse Assortment consist of the following fuses (packed in 5-in tins) and a FREE Display Stand.

ERFL (Large Assortment)			
2 AGC-1	2 AGX-20	1 MDL-35	1 GMA-3A
2 AGC-2	1 AGX-30	1 ABC-1	1 GMA-5A
2 AGC-3	2 MDL-1	1 ABC-2	1 GDC-1A
1 AGC-4	2 MDL-2	2 ABC-3	1 GDC-2A
2 AGC-5	2 MDL-3	2 ABC-5	1 GDC-3.15A
1 AGC-7	1 MDL-4	1 ABC-7	1 GDC-5A
4 AGC-10	2 MDL-5	2 ABC-10	1 GDB-1A
2 AGC-15	1 MDL-7	2 ABC-15	1 GDB-2A
6 AGC-20	2 MDL-10	2 ABC-20	1 GDB-3.15A
2 AGC-25	2 MDL-15	2 ABC-25	1 GDB-5A
7 AGC-30	6 MDL-20	2 ABC-30	—
1 AGC-35	2 MDL-25	1 GMA-1A	—
2 AGX-15	7 MDL-30	1 GMA-2A	—
ERFS (Small Assortment)			
2 AGC-1	1 AGC-30	1 MDL-25	1 ABC-25
1 AGC-2	2 MDL-1	1 MDL-30	1 ABC-30
1 AGC-3	1 MDL-2	1 ABC-1	1 GMA-1A
2 AGC-5	1 MDL-3	2 ABC-2	1 GMA-2A
1 AGC-7	2 MDL-5	2 ABC-3	1 GMA-3A
3 AGC-10	1 MDL-7	1 ABC-5	1 GMA-5A
1 AGC-15	2 MDL-10	2 ABC-10	—
1 AGC-20	1 MDL-15	2 ABC-15	—
1 AGC-25	1 MDL-20	2 ABC-20	—



CCFSK-45



MFSK-45



RKFSK-39



MKE Merchandising Kits

Purchase the MKE unit as an empty display, or fully stocked (MKE- C).

Features

- Shelves adjust to handle just about any product.
- Heavy-duty casters.
- Product part number bin labels available online.
- A fuse cross-reference guide .
- Flexible header card.

Dimensions

24" wide x 65" tall x 21½" deep. Weight: 48 lbs. when empty.

Construction Market (MKE-C) Contents

Fuse Class	Cat. No.	Description	Fuse Amps	Qty. Each
Class CC	EDCC	600V Time-Delay	10, 15, 20	10
	HCTR	600V Time-Delay	½, 1, 1½, 5, 10	10
	HCLR	600V Fast-Acting	10, 15, 20	10
Class RK5	ECNR	250V Time-Delay	10, 15, 20, 30, 40, 60	10
	ECSR	600V Time-Delay	10, 15, 20, 25, 30, 40, 60	10
Midget	MEN	250V Time-Delay	2, 5, 10	10
	MEQ	500V Time-Delay	5, 10, 15, 20	10
	MCL	600V Fast-Acting	5, 10, 15, 30	10
Fuse Service Kits				
Class RK5	RK5FSK-39	250/600V Fuse Kit	Assortment	1
Midget	MFSK-45	Midget Fuse Kit	Assortment	1
Class CC	CCFSK-45	Class CC Fuse Kit	Assortment	1

Glass Tube Fuses



SFE

Fast-Acting

Physical Size: 1/4" diameter x length as below

Catalog No.	Ampere Rating	Length (In.)
SFE-4	4	5/8
SFE-6	6	3/4
SFE-7-1/2	7-1/2	7/8
SFE-9	9	7/8
SFE-14	14	1-1/16
SFE-20	20	1-1/4
SFE-30	30	1-7/16

Construction: Glass Tube

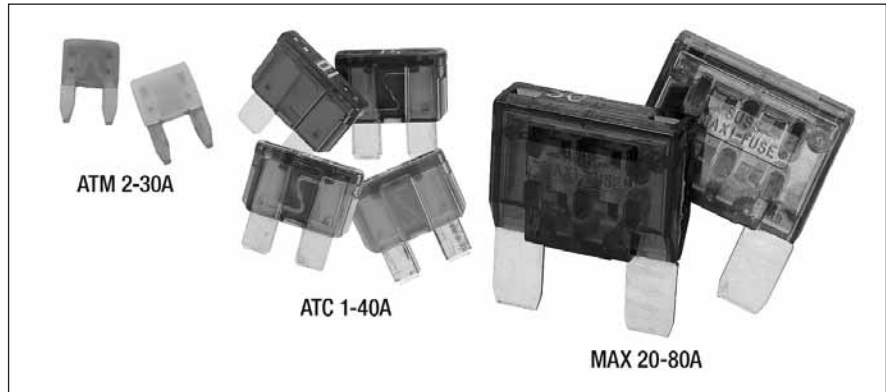
Voltage Rating: 32V

Agency Approvals:

UL Listed

(Guide #FHXT, File #AU169)

Blade Fuses



Specifications

Description: Fast-acting blade fuse.

Construction: Plastic housing with zinc fuse element. Zinc ATM blades are silver-plated.

Ratings:

Volts — 32Vdc

Amps — 2-30A (ATM)

1-40A (ATC)

20-80A (MAX)

IR — 1000A

Features and Benefits

- Color coded for easy identification of fuse ratings

Typical Applications

- Automotive

Catalog Numbers (Amps)

Cat. No. ATM (2-30A)

Catalog Numbers (Amps)

Catalog Numbers	Color Code
ATM-2	Gray
ATM-3	Violet
ATM-4	Pink
ATM-5	Tan
ATM-7 1/2	Brown
ATM-10	Red
ATM-15	Blue
ATM-20	Yellow
ATM-25	Clear
ATM-30	Green

Cat. No. ATC (1-40A)

Agency Information: UL Recognized, (3-40A) (Guide JFHR2, File E56412), SAE Standard J1284.

Catalog Numbers (Amps)

Catalog Numbers	Color Code
ATC-1	Black
ATC-2	Gray
ATC-3	Violet
ATC-4	Pink
ATC-5	Tan
ATC-7 1/2	Brown
ATC-10	Red
ATC-15	Blue
ATC-20	Yellow
ATC-25	Clear
ATC-30	Green
ATC-40	Orange

Cat. No. MAX (20-80A)

Catalog Numbers (Amps)

Catalog Numbers	Color Code
MAX-20	Yellow
MAX-30	Green
MAX-40	Orange
MAX-50	Red
MAX-60	Blue
MAX-70	Tan
MAX-80	Clear