
Power Fuses

Midget, Miniature & PC Mount Fuses

Medium Voltage Fuses

Special Purpose Fuses



Gould Shawmut
Bussmann
General Electric
Elsa Electroline Manufacturing

Fuse Quick Selector

APPLICATION	RECOMMENDED FUSE
Loads Requiring "No-Damage" Protection	Amp-trap 2000® fuses sized for IEC Type 2 protection: Class J – AJT, Class L – A4BQ, Class RK1 – A2D (250V), A6D (600V), Class CC – ATDR, ATQR
Mains, Feeders, Branch Circuits Low Voltage - Above 600A 600A and less Medium Voltage	Class L – A4BQ, A4BY, A4BT Class J or Class RK1 – AJT, A4J, A2D/A6D, A2K/A6K "E" Rated – A055 (5kV), A155 (15kV)
Motors Low Voltage - Above 600A 600A and less Medium Voltage Small Motors	Class L – A4BQ, A4BY, A4BT Class J – AJT, Class RK1 – A2D (250V), A6D (600V) or Class RK5 – TR (250V), TRS (600V) "R" Rated – A240R (2.4kV), A480R (4.8kV), A072 (7.2kV) Class CC – ATDR
Transformers Low Voltage - Above 600A 600A and less Medium Voltage Control Transformers	Class L - A4BY, A4BT Class J - AJT or Class RK5 – TR 250V), TRS (600V) "E" Rated – A055 (5kV), A155 (15kV) Class CC – ATQR
Semiconductor Protection	Amp-trap® Form 101 Fuses, 130 to 1200V, 1 to 6000A
Electronic Circuit Protection	Midget Miniature, Micro and PC Mount Fuses
Control Circuits	Class CC and Midget Fuses
Welders	Welder Protectors – A4BX (Type 150) – Class K Dims. A4BX (Type 150J) – Class J Dims.
Service Cable	Cable Protectors – CP-C- (For Copper Cable) CP-A- (For Aluminum Cable)
General Circuits (Lighting, Resistance Heating, etc.)	Class J – AJT, A4J Class RK1 – A2D, A2K (250V) : A6D, A6K (600V) Class RK5 – TR (250V); TRS (600V) Class K [50,000A I.R.] – OT (250V), OTS (600V) Class H [10,000A I.R.] – NRN, CRN (250V) Canadian, RF (Renewable) NRS, CRS (600V) Canadian, RFS (Renewable)

Product Guide Amp-trap 2000® Fuses



**AMP-TRAP®
2000**

Class J Time Delay
1 to 600A
600V AC
UL Listed
CSA Certified
200kA I.R.
Current Limiting
Motor, motor controller,
control transformer, and
circuit breaker back-up
protection. Space saving
dimensions. Very current
limiting.



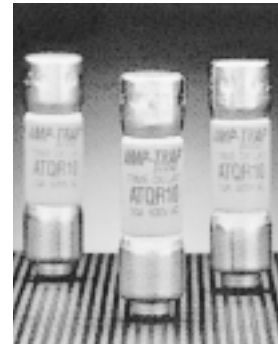
**AMP-TRAP®
2000**

Class L Time Delay
601 to 6000A
600V AC, 500V DC
4 Second Delay
UL Listed
200kA I.R., 600V AC
100kA I.R., 500V DC
Current Limiting
The most current-limiting
Class L fuse available
today. For increased
protection of AC and DC
equipment.



**AMP-TRAP®
2000**

Class RK1 Time Delay
1/10 to 600A
250V AC or
600V AC
UL Listed
CSA Certified
200kA I.R.
Current Limiting
Motor controller and
motor overcurrent
protection. Very current
limiting.



**AMP-TRAP®
2000**

Class CC Time Delay
1-1/2" x 13/32"
UL Listed
CSA Certified
200kA I.R.
ATDR
1/4 to 30A
For motor protection
ATQR
1/8 to 10A
For transformer
protection

Power Fuses



TRI-ONIC

Class RK5 Time Delay
1/10 to 600A
250V AC or 600V
AC
UL Listed
CSA Certified
DC Rated
200kA I.R.
Motor overcurrent, motor
controller and transformer
protection.



AMP-TRAP®

Class J Fast Acting
1 to 600A
600V AC
UL Listed
CSA Certified
200kA I.R.
Current Limiting
Feeder circuit, panelboard,
and circuit breaker back-
up protection. Space saving
dimensions. Very current
limiting.



AMP-TRAP®

Class L
601 to 6000A
600V AC
4 Second Delay
UL Listed
CSA Certified
200kA I.R.
Current Limiting
Service entrance, feeder
circuit, transformer, and
circuit breaker back-up
protection.



AMP-TRAP®

Class L
601 to 2000A
600V AC, 200kA I.R.
10 Second Delay
UL Listed
CSA Certified
500V DC, 100kA I.R.
Motor, motor controller,
and transformer
protection. Also suitable
for DC application.

GOULD SHAWMUT

Power Fuses



AMP-TRAP®

Class T Fast Acting
1 to 1200A,
300V - A3T
1 to 800A,
600V - A6T
UL Listed
CSA Certified
200kA I.R.
Current Limiting

Loadcenter, metering center, panel-board, and circuit breaker back-up protection. Very current limiting. Small physical size.



AMP-TRAP®

Class RK1 Fast Acting
1 to 600A
250V AC or
600V AC
UL Listed
CSA Certified
200kA I.R.
Current Limiting

Feeder circuit, panelboard, and circuit breaker back-up protection. Very current limiting.



AMP-TRAP®

Class G
1/2 to 60A
480V AC
100kA I.R.
UL Listed
CSA Certified
Current Limiting

With time delay (above 5A) and 480 volt rating, AG fits a wider variety of branch circuit protection to lighting, heating and appliances



AMP-TRAP®

Class CC
1-1/2" x 13/32"
1/10 to 30A
600V AC
UL Listed
CSA Certified
200kA I.R.
Current Limiting

The smallest dimension fuse suitable for branch circuit protection.

Power Fuses



ONE-TIME

Class K5 General Purpose
1 to 600A
250V AC or
600V AC
UL Listed
CSA Certified
50kA I.R.

Energy Limiting
Lowest cost protection for circuits serving heating, lighting, and other non-motor loads



RENEWABLE

Class H General Purpose
1 to 600A
250V AC or 600V AC
UL Listed
CSA Certified
10kA I.R.

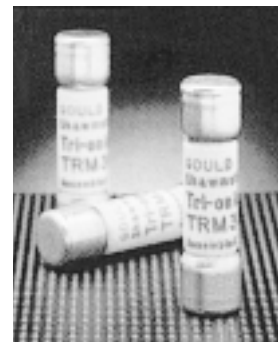
Has renewable links. Provides general purpose protection. For non-motor loads.



AMP-TRAP®

Midget Dimensions
1-1/2" x 13/32"
ATQ Time Delay
1/10 to 30A, 500V AC
ATM Fast Acting
1/10 to 50A, 600V AC,
500V DC
A6Y-2B Fast Acting

1/4 to 3 A, 600V AC
3-2/10 to 15A, 500V AC
Supplementary overcurrent protection.



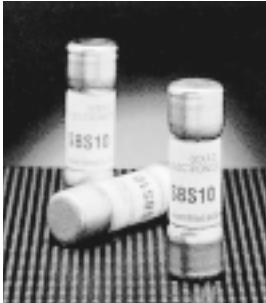
MIDGET FUSES

Midget Dimensions
1-1/2" x 13/32"
TRM Time Delay
1 to 30A, 250V AC
OTM Fast Acting
1 to 30A, 250V AC

GGU Fast Acting (Glass/Ceramic body)
3 to 30A, 125V AC
GFN Time Delay, Pin Indicating
1/10 to 30A
32 thru 250V AC

GOULD SHAWMUT

Midget, Miniature & PC Mount Fuses



SBS

General Purpose
1-3/8" x 13/32"
2/10 to 30A
600V AC
100,000A I.R.
UL Listed
CSA Certified

SBS is the only fuse in its size to have a full 600V AC rating.



MINIATURE FUSES

Dimensions:
5 x 20mm, 1" x 1/4"
and 1-1/4" x 1/4"
Glass Body
Ceramic Body
1/16 to 30A
32 thru 250V AC
Time delay or fast acting
Optional axial leads
Many are UL Listed or CSA Certified
Supplementary protection in electrical and electronic circuits.



PC MOUNT FUSES

Direct Mount PC Board Fuses
PCF Fast Acting Fuses
1 to 30A, 600V AC, 500V DC
PCS Semiconductor Protection Fuses
5 to 30A, 600V AC/DC
PCT Time Delay Fuses
1 to 30A, 500V AC
UL Recognized Components

Semiconductor Fuses



AMP-TRAP®

Form 101
1/2 to 6000A
130V to 1200V
Many are UL Recognized Components
Current Limiting
Extremely fast acting. Low I²t provides protection for semiconductors and electronic equipment.

Semiconductor Fuses



AMP-TRAP®

Series Q
U.S. and European Dimension Fuse Links
Current Limiting
200kA Breaking Capacity
A-70C Series
Sizes 1, 2, 3; 700V AC
A-100C Series
Sizes 1, 2, 3; 1000V AC
A-66C Series
Sizes 00, 1, 2, 3; 660V AC
For semiconductor protection. UL Component Recognized, DIN sizes.

Medium Voltage Fuses



AMP-TRAP®

E Rated Current Limiting
5E to 900E
5.5kV and 15.5kV
UL Listed
Protection for medium voltage transformers.



AMP-TRAP®

E Rated For Potential Transformers
Current Limiting
1/2E to 5E
2.4, 4.8, 5.0 and 7.2kV
50kA I.R.
Primary protection for potential transformers.

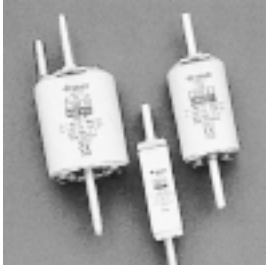


AMP-TRAP®

R Rated Current Limiting
2R to 36R
2.4, 4.8 and 7.2kV
Short circuit protection for medium voltage motors and controllers.

GOULD SHAWMUT

International Fuses



EURO/IEC FUSES

Cylindrical Fuses

"gF", "gl-gG" & "aM" Types
250/380/400/500/690V AC

0.16 to 125A ratings

Screw Cap Fuses

DO Type - 380V AC

D Type - 500V AC

2 to 100A ratings

NH Dimension Fuses

"gl-gL-gG", and "aM" Types

500 and 690V AC

4 to 1250A ratings

CANADIAN FUSES

Class C, CA, CB

HRCII-Misc.

NRN/NRS, CRN/CRS

Special Purpose Fuses



PLUG FUSES

Edison Base and Type S

3 to 30A

125V AC to Ground

UL Listed

10kA I.R.

Choice of types:

- Thermal time delay
- Standard time delay
- Non-time delay
- "P" type
- "D" type

Special Purpose Fuses



AMP-TRAP®

Cable protectors 600V AC

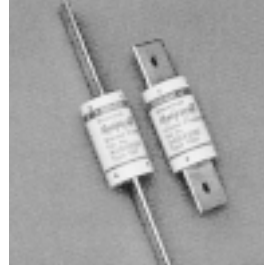
For Sizes

#2AWG to 750kcmil

200kA I.R.

Current Limiting

Protect runs of multiple conductor cables by selectively isolating faulted cables. Available for copper and aluminum cable.



AMP-TRAP®

Welder Protectors

100 to 600A

600V AC

200kA I.R.

Current Limiting

Short circuit protection for electric welders. Class K and Class J dimensions.



AMP-TRAP®

Form 600

1 to 600A

250V AC or DC

600V AC or 500V

DC

650-1200A

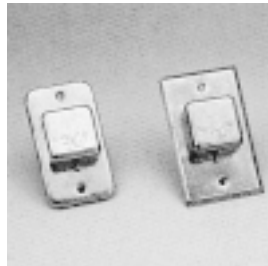
600V AC

200kA I.R.

Energy Limiting

Special purpose fuse for AC and DC applications.

Circuit Protection Accessories



BOX COVERS

For plug fuses. Fit standard boxes. Galvanized Steel.

Rated 125V AC, UL Listed.

Inexpensive protection for

motor circuits. Popular

types available for up to

3/4 HP motors.



FUSE REDUCERS

Wide choice for 30A to

400A Class H, J, K & R

fuses to fit 250 or 600V

clips.

FUSE PULLERS

Nylon or plastic for 30 to

600A fuses.

FUSE CLIP CLAMPS

Steel jaws clamp fuses

tightly in clips, with a turn

of the cap.



BLOWN FUSE INDICATORS

Shawmut Trigger®

TI-130, TI-600, TI-

1500

Wired in parallel with fuse

Trigger Actuator®

Option on many fuses

mounts

AOS-switches

Indicators EI-700

and

EI-1000

Fit on square-body fuses

brackets, for AOS-

switches

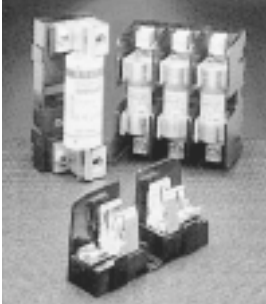
Add-On-Switch

AOS-Q quick connectors

AOS-S screw terminals

GOULD SHAWMUT

Fuse Blocks and Holders



FUSE BLOCKS 250V AND 600V

Single and Multi-Pole

Available for class H, J, K, R, CC and Midget fuses. A variety of clips, pole configurations and termination provisions is available. Most are UL Listed, UL Recognized or CSA Certified.



ULTRASAFE FUSE HOLDERS

Finger Safe, Modular Fuse Holders

Optional Indicators

Single- or Multi-pole

USCC - For Class CC Fuses

30A, 600V AC

USM - For Midget Fuses

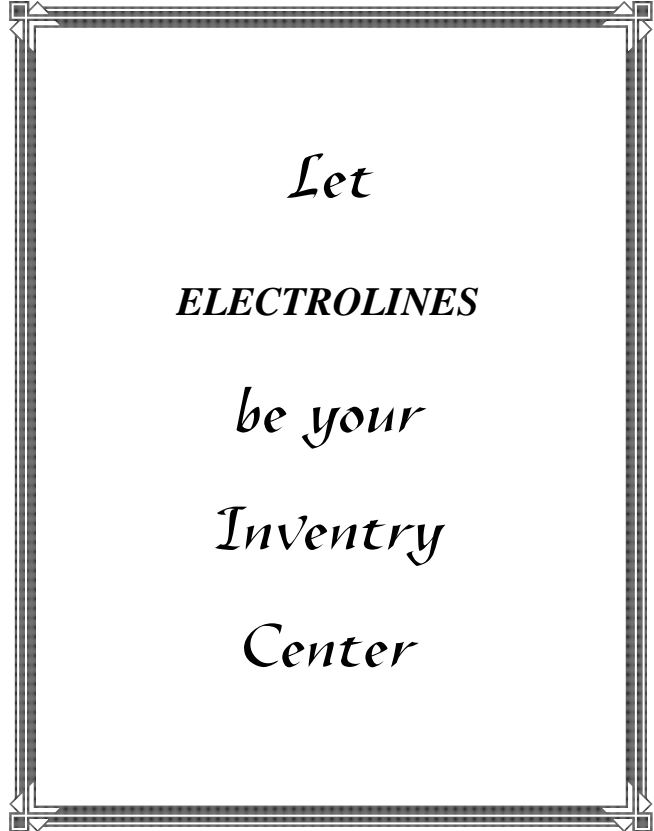
30A, 600V AC

US3J - For Class J Fuses

30A, 600V AC

US6J - For Class J Fuses

60A, 600V AC



Fuse Blocks and Holders



IN-LINE FUSEHOLDERS

For 1-1/2" x 13/32"

fuses Rated 30A,
600V AC 200kA

withstand rating

Breakaway feature -

standard UL

Recognized CSA

Certified

Choice of crimp or screw connectors for solid or stranded copper cable. Rubber boots available.



GPM SERIES PANEL MOUNT FUSE HOLDERS

Rated up to 30A,
600V AC

Various sizes accommodate 5mm x 20mm, 1/4" x 1-1/4" or 1-1/2" x 13/32" Midget and Class CC fuses. Front or rear mounting in panel. UL Recognized, CSA Certified.



DFC DEAD-FRONT FUSE COVERS

Snap on to Class G, H, J, K, R, CC or Midget Fuses in Fuse Holders Provide Dead-Front Electrical Safety Reusable Optional Open-Fuse Indicator Light

UL Listed or Recognized, CSA Certified.

Power Distribution Blocks



600V AC

Single and Multi-Pole

Provides convenient means of distributing power for copper and/or aluminum cable. A variety of pole configurations, termination provisions and gauge sizes is available.

GOULD SHAWMUT

TRI-ONIC® TR & TRS



TIME DELAY / CLASS RK5

THE INDUSTRY'S MOST POPULAR FUSE FOR MOTOR CIRCUIT PROTECTION.

Tri-onic® TR and TRS current limiting time delay fuses are engineered for overcurrent protection of motors and transformers, service entrance equipment, feeder and branch circuits. Tri-onic's proven time delay characteristic safely handles harmless starting currents and inrush currents associated with today's motors and transformers.

Features/Benefits

- **Time delay** for motor start-ups and transformer inrush currents *without* nuisance opening
- **Current limiting** for low peak let-thru current
- **Rejection-style design** prevents replacement errors (when used with recommended fuse blocks)
- **Easy-to-read imprint label** for quick recognition and replacement
- **Metal-embossed date and catalog number** for traceability and lasting identification
- **Fiberglass body** provides dimensional stability in harsh industrial settings
- **Brass end-caps** (blade-style) for cooler operation and superior performance
- **High-grade silica filler** ensures fast arc quenching and high current limitation

HIGHLIGHTS:

- Time Delay
- Current limiting
- AC & DC Rated

APPLICATIONS:

- Motor Circuits
- Mains
- Feeders
- Branch Circuits
- Transformers
- Service Entrance Equipment
- General-purpose protection

Ratings

- **TR**
AC: 1/10 to 600A
250VAC, 200kA I.R.
DC: 1/10 to 2 8/10A
& 35 to 400A,
250VDC, 20kA I.R.;
- 3 to 30A & 450 to 600A,
160VDC, 20kA I.R.
- **TRS**
AC: 1/10 to 600A
600VAC, 200kA I.R.

DC: 1/10 to 12A,
600VDC, 20kA I.R.;

70 to 600A,
600VDC, 100kA I.R.;

15 to 60A,
300VDC, 20 kA I.R.

Approvals

- UL Listed to Standard 248-12
- CSA Certified to Standard C22.2 No. 248.12
- DC Listed to UL Standard 198L

Fuses

GOULD SHAWMUT

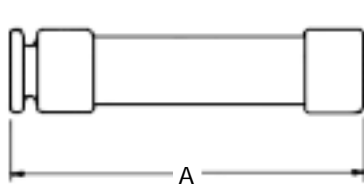
TRI-ONIC®

TIME DELAY / CLASS RK5 FUSES

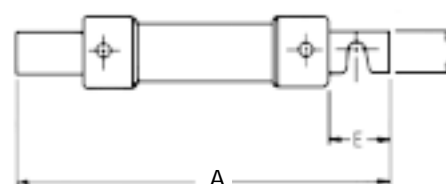
TR & TRS

Standard Fuse Ampere Ratings, Catalog Numbers

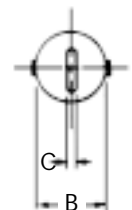
Ampere Rating	Catalog Number		Ampere Rating	Catalog Number		Ampere Rating	Catalog Number	
	250V	600V		250V	600V		250V	600V
1/10	TR1/10R	TRS1/10R	3-1/2	TR3-1/2R	TRS3-1/2R	50	TR50R	TRS50R
15/100	TR15/100R	TRS15/100R	4	TR4R	TRS4R	60	TR60R	TRS60R
2/10	TR2/10R	TRS2/10R	4-1/2	TR4-1/2R	TRS4-1/2R	70	TR70R	TRS70R
3/10	TR3/10R	TRS3/10R	5	TR5R	TRS5R	75	TR75R	TRS75R
4/10	TR4/10R	TRS4/10R	5-6/10	TR5-6/10R	TRS5-6/10R	80	TR80R	TRS80R
1/2	TR1/2R	TRS1/2R	6	TR6R	TRS6R	90	TR90R	TRS90R
6/10	TR6/10R	TRS6/10R	6-1/4	TR6-1/4R	TRS6-1/4R	100	TR100R	TRS100R
8/10	TR8/10R	TRS8/10R	7	TR7R	TRS7R	110	TR110R	TRS110R
1	TR1R	TRS1R	8	TR8R	TRS8R	125	TR125R	TRS125R
1-1/8	TR1-1/8R	TR1-1/8R	9	TR9R	TRS9R	150	TR150R	TRS150R
1-1/4	TR1-1/4R	TRS1-1/4R	10	TR10R	TRS10R	175	TR175R	TRS175R
1-4/10	TR1-4/10R	TRS1-4/10R	12	TR12R	TRS12R	200	TR200R	TRS200R
1-6/10	TR1-6/10R	TRS1-6/10R	15	TR15R	TRS15R	225	TR225R	TRS225R
1-8/10	TR1-8/10R	TRS1-8/10R	17-1/2	TR17-1/2R	TRS17-1/2R	250	TR250R	TRS250R
2	TR2R	TRS2R	20	TR20R	TRS20R	300	TR300R	TRS300R
2-1/4	TR2-1/4R	TRS2-1/4R	25	TR25R	TRS25R	350	TR350R	TRS350R
2-1/2	TR2-1/2R	TRS2-1/2R	30	TR30R	TRS30R	400	TR400R	TRS400R
2-8/10	TR2-8/10R	TRS2-8/10R	35	TR35R	TRS35R	450	TR450R	TRS450R
3	TR3R	TRS3R	40	TR40R	TRS40R	500	TR500R	TRS500R
3-2/10	TR3-2/10R	TRS3-2/10R	45	TR45R	TRS45R	600	TR600R	TRS600R



0-60A



61-600A



Dimensions

Ampere Rating	A		B		C		D		E	
	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm
250V-TR FUSES										
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-TRS FUSES										
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 Tri-onic® Class RK5 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

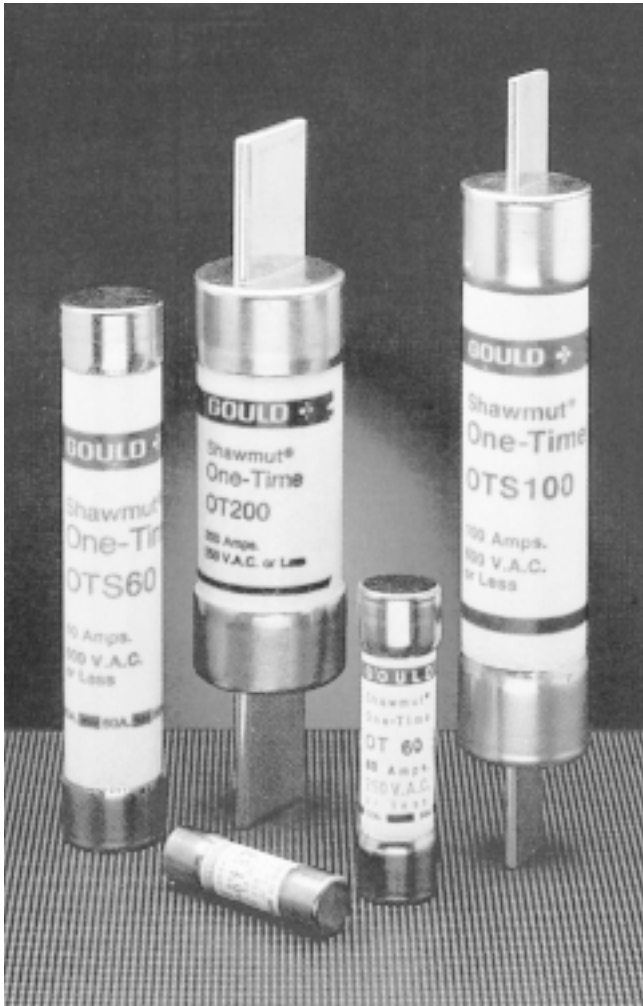
A variety of pole configurations and termination provisions is available.

Electrolines Est.

GOULD SHAWMUT

ONE-TIME OT/OTN/OTS

CLASS K-5



FOR VERSATILITY AND ECONOMY, THESE GENERAL PURPOSE FUSES ARE HARD TO BEAT

OT, OTN and OTS general purpose fuses provide low cost protection for feeder and branch circuits serving lighting, heating, and other non-motor loads. OT, OTN and OTS fuses will safely interrupt available short circuit currents up to 50,000 amperes in all ratings.

OT, OTN and OTS fuses are not rejection fuses – care should be taken to ensure that replacement fuses do not have lower interrupting ratings than original fuses.

OTN 15 through 60 satisfy the Canadian electrical code requirement for Type “P”, low melting-point, non-time delay fuses.

Features/Benefits

- **Easy to read imprint label** for quick recognition and replacement
- **Low cost** for high protection value

HIGHLIGHTS:

- Versatile
- Lowest cost protection for circuits serving non-inductive loads

APPLICATIONS:

- Feeders
- Branch Circuits
- Resistive Heating
- Residential and Small Commercial Installations

Ratings

- **OT**
AC: 1 to 600A
250VAC, 50kA I.R.
- **OTN (Canada)**
AC: 15 to 60A
250VAC, 50kA I.R.
- **OTS**
AC: 1 to 600A
600VAC, 50kA I.R.

Approvals

- UL Listed to Standard 248-9
 - CSA Certified to Standard C22.2 No. 248.9*
- *The Canadian Electrical Code requires these fuses in ratings 15 through 60A to be of the low melting point design use OTN 15-60.

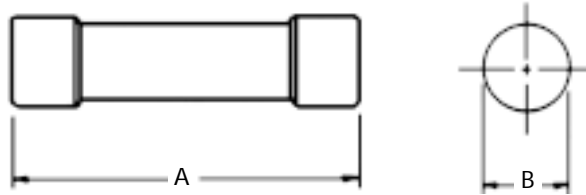
ONE-TIME

GENERAL PURPOSE / CLASS K-5 FUSES OT/OTN/OTS

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	OT1	OTS1	30	OT30, OTN30*	OTS30	125	OT125	OTS125
2	OT2	OTS2	35	OT35, OTN35*	OTS35	150	OT150	OTS150
3	OT3	OTS3	40	OT40, OTN40*	OTS40	175	OT175	OTS175
4	OT4	OTS4	45	OT45, OTN45*	OTS45	200	OT200	OTS200
5	OT5	OTS5	50	OT50, OTN 50*	OTS50	225	OT225	OTS225
6	OT6	OTS6	60	OT60, OTN60*	OTS60	250	OT250	OTS250
7	OT7	OTS7	65	OT65	OTS65	300	OT300	OTS300
8	OT8	OTS8	70	OT70	OTS70	350	OT350	OTS350
10	OT10	OTS10	75	OT75	OTS75	400	OT400	OTS400
12	OT12	OTS12	80	OT80	OTS80	450	OT450	OTS450
15	OT15, OTN15*	OTS15	90	OT90	OTS90	500	OT500	OTS500
20	OT20, OTN20*	OTS20	100	OT100	OTS100	600	OT600	OTS600
25	OT25, OTN 25*	OTS25	110	OT110	OTS110			

* In Canada



0-60A



61-600A

Recommended Fuse Blocks With Box Connectors For One-Time Class K-5 Fuses

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

A variety of pole configurations and termination provisions is available. Refer to the fuse block section of this catalog for details.

Dimensions

Ampere Rating	A		B		C		D		D	
	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm
250V-OT, OTN FUSES										
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-OTS FUSES										
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

EURO/IEC Fuses & Accessories gF, gl-gG, aM



CYLINDRICAL FUSE-LINKS

DOMESTIC AND INDUSTRIAL CYLINDRICAL FUSE-LINKS

Goald Shawmut gF, gl-gG and aM fuse-links cover a wide range of physical sizes and ampere ratings for 250, 380*, 400, 500, and 660* volts AC. gF fuse-links are for domestic use. gl-gG and aM fuse-links are for industrial applications. Most ratings are available with an optional indicator. All industrial fuse-links have the option of a built-in striker. All cylindrical fuse-links have ceramic bodies and silver-plated ferrules.

* Fuse-links marked 380V (gF) and 660V (gl-gG-aM) will be re-marked (and safely used at) 400V AC and 690V AC in compliance with changes in IEC Standard 269, but should not be used above 418V AC or 726V AC.

gF

FULL RANGE PROTECTION

- 7 physical sizes from 6.3 x 23mm to 10.3 x 38 mm
- 250 and 380 Volt ratings - 0.5A through 32A
- Most ratings available with indicator
- Meet IEC, NFC, UNE and British standards

gl-gG

FULL RANGE PROTECTION

- 4 physical sizes from 8 x 31 mm to 22 x 58 mm
- 400, 500 and 690 Volt ratings - 0.5A through 125A
- Most ratings available with indicator
- Meet IEC, NFC and UNE standards
- Approved by Lloyds Register of Shipping and Bureau Veritas

gl-gG

FULL RANGE PROTECTION

- Fuse-links with Striker**
- 2 sizes- 14 x 51mm and 22 x 58mm
 - 400, 500 and 690 Volt ratings - 4A through 125A
 - All ratings include striker
 - Meet IEC, NFC and UNE standards
 - Approved by Lloyds Register of Shipping and Bureau Veritas

aM

SHORT CIRCUIT PROTECTION

- 4 physical sizes from 8 x 31mm to 22 x 58mm
- 400, 500 and 690 Volt ratings - .16A through 125A
- Most ratings available with indicator
- Meet IEC, NFC and UNE standards
- Approved by Lloyds Register of Shipping and Bureau Veritas

aM

SHORT CIRCUIT PROTECTION







- Fuse-links with Striker**
- 2 sizes- 14 x 51mm and 22 x 58mm
 - 400, 500 and 690 Volt ratings - 2A through 125A
 - All ratings include striker
 - Meet IEC, NFC and UNE standards
 - Approved by Lloyds Register of Shipping and Bureau Veritas

EURO/IEC Fuses & Accessories

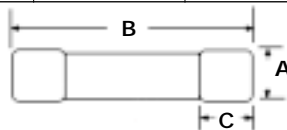
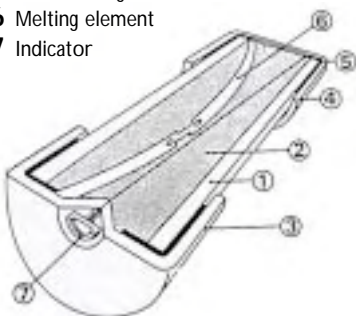
gF

CYLINDRICAL FUSE-LINKS

Catalog Numbers, Ratings – gF (Optional Blown-Fuse Indicator)

SIZE (mm x mm)	RATED In CURRENT (A)	RATED VOLTAGE	CATALOG NUMBER		INTERRUPTING RATING (A)	STANDARD PACK/CTN.				
			w/o Indicator	w/Indicator						
6.3 x 23 	2	250V	10013-G	–	6,000	10/100				
	4		10019-G	–						
	6		10023-G	–						
	10		10031-G	–						
8.5 x 23 	2	250V	10213-G	12213-G	6,000	10/100				
	4		10219-G	12219-G						
	6		10223-G	12223-G						
	10		10231-G	12231-G						
	15		10235-G	12235-G						
10.3 x 25.8 	6	250V	10423-G	12423-G	6,000	10/100				
	10		10431-G	12431-G						
	16		10435-G	12435-G						
8/5 x 31.5 	0.5	380V	10609-G	12609-G	20,000	10/100				
	1		10611-G	12611-G						
	2		10613-G	12613-G						
	4		10619-G	12619-G						
	6		10623-G	12623-G						
	8		10627-G	12627-G						
	10		10631-G	12631-G						
	12		10633-G	12633-G						
	16		10635-G	12635-G						
	20		10637-G	12637-G						
25	10639-G	12639-G								
10.3 x 31.5 	16	380V	10835-G	12835-G	20,000	10/100				
	20		10837-G	12837-G						
	25		10839-G	12839-G						
8.5 x 36 	2	380V	11013-G	13013-G	20,000	10/100				
	4		11019-G	13019-G						
	6		11023-G	13023-G						
	10		11031-G	13031-G						
	16		11035-G	13035-G						
	20		11037-G	13037-G						
	25		11039-G	13039-G						
	32		11043-G	13043-G						
	10.3 x 38		25	380V			11239-G	13239-G	20,000	10/100
			32				11243-G	13243-G		

- 1 Ceramic body
- 2 Sand
- 3 Indicator contact
- 4 Lower contact
- 5 Contact ring
- 6 Melting element
- 7 Indicator



Dimensions

FUSE SIZE (mm x mm)	A	B	C
6.3 x 23	6.3	23	5
8.5 x 23	8.5	23	5
10.3 x 25.8	10.3	25.8	6.3
8.5 x 31.5	8.5	31.5	6.3
10.3 x 31.5	10.3	31.5	10
8.5 x 36	8.5	36	6.3
10.3 x 38	10.3	38	10

Blown-Fuse Indicator



BEFORE



AFTER

Fuses

GOULD SHAWMUT

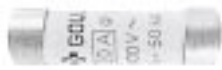
EURO/IEC Fuses & Accessories

gl-gG

CYLINDRICAL FUSE-LINKS

Catalog Numbers, Ratings – gl-gG (Optional Blown-Fuse Indicator)

SIZE (mm x mm)	RATED In CURRENT (A)	RATED VOLTAGE	CATALOG NUMBER		INTERRUPTING RATING (A)	STANDARD PACK/CTN.			
			w/o Indicator	w/Indicator					
8 x 31	1	400V	15011-G	15211-G	20,000	10/100			
	2		15013-G	15213-G					
	4		15019-G	15219-G					
	6		15023-G	15223-G					
	8		15027-G	15227-G					
	10		15031-G	15231-G					
	12		15033-G	15233-G					
	16		15035-G	15235-G					
	20		15037-G	15237-G					
	10 x 38		0.5	500V			16009-G	-	120,000
1		16011-G	-						
2		16013-G	16213-G						
4		16019-G	16219-G						
6		16023-G	16223-G						
8		16027-G	16227-G						
10		16031-G	16231-G						
12		16033-G	16233-G						
16		16035-G	16235-G						
20		16037-G	16237-G						
25		16039-G	16239-G						
32		16043-G	16243-G						
14 x 51		2	660V		17013-G	17213-G	80,000	10/50	
		4		17019-G	17219-G				
	6	17023-G		17223-G					
	8	17027-G		17227-G					
	10	17031-G		17231-G					
	12	17033-G		17233-G					
	16	17035-G		17235-G					
	20	17037-G		17237-G					
	25	17039-G	17239-G						
	32	500V	17043-G	17243-G	120,000				
	40		17047-G	17247-G					
	50		17051-G	17251-G					
	22 x 58		4	660V		18019-G	18219-G	80,000	10/50
			6			18023-G	18223-G		
			8			18027-G	18227-G		
10			18031-G			18231-G			
12		18033-G	18233-G						
16		18035-G	18235-G						
20		18037-G	18237-G						
25		18039-G	18239-G						
32		18043-G	18243-G						
40		18047-G	18247-G						
50	500V	18051-G	18251-G	120,000					
63		18055-G	18255-G						
80		18059-G	18259-G						
100		18063-G	18263-G						
125		18065-G	18265-G						



15037-G



16037-G



17039-G



18059-G

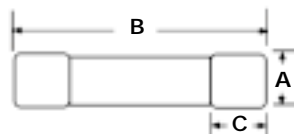
Blown-Fuse Indicator



BEFORE



AFTER



Dimensions

FUSE SIZE	A	B	C
8 x 31	8.5	31.5	6.3
10 x 38	10.3	38	10.5
14 x 51	14.3	51	13.8
22 x 58	22.2	58	16.2

Electrolines Est.

Fuses

GOULD SHAWMUT

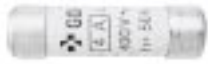
EURO/IEC Fuses & Accessories

aM

CYLINDRICAL FUSE-LINKS

Catalog Numbers, Ratings – aM (Optional Blown-Fuse Indicator)

SIZE (mm x mm)	RATED In CURRENT (A)	RATED VOLTAGE	CATALOG NUMBER		INTERRUPTING RATING (A)	STANDARD PACK/CTN.	
			w/o Indicator	w/Indicator			
8 x 31	1	400V	15511-G	-	20,000	10/100	
	2		15513-G	-			
	4		15519-G	-			
	6		15523-G	-			
	8		15527-G	-			
	10		15531-G	-			
10 x 38	0.16	500V	16503-G	-	120,000	10/100	
	0.25		16507-G	-			
	0.5		16509-G	-			
	1		16511-G	16711-G			
	2	16513-G	16713-G				
	4	16519-G	16719-G				
	6	16523-G	16723-G				
	8	16527-G	16727-G				
	10	16531-G	16731-G				
	12	16533-G	16733-G				
	16	16535-G	16735-G				
	20	16537-G	16737-G				
	25	16539-G	16739-G				
	14 x 51	0.25	660V	17507-G	-		80,000
0.5		17509-G		-			
1		17511-G	17711-G				
2		17513-G	17713-G				
4		17519-G	17719-G				
6		17523-G	17723-G				
8		17527-G	17727-G				
10		17531-G	17731-G				
12		17533-G	17733-G				
16		17535-G	17735-G				
20		17537-G	17737-G				
25		17539-G	17739-G				
32		17543-G	17743-G				
40		17547-G	17747-G				
45		17549-G	17749-G				
50		17551-G	17751-G				
22 x 58	4	660V	18519-G	18719-G	80,000	10/50	
	6		18523-G	18723-G			
	8	18527-G	18727-G				
	10	18531-G	18731-G				
	12	18533-G	18733-G				
	16	18535-G	18735-G				
	20	18537-G	18737-G				
	25	18539-G	19739-G				
	32	18543-G	18743-G				
	40	18547-G	18747-G				
	50	18551-G	18751-G				
	63	18555-G	18755-G				
	80	18559-G	18759-G				
	100	18563-G	18763-G				
	125	18565-G	18765-G				
		500V			120,000		
		400V					



15519-G



16535-G



17535-C



18555-G

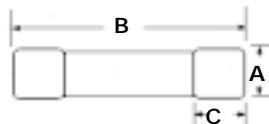
Blown-Fuse Indicator



BEFORE



AFTER



Dimensions

FUSE SIZE	A	B	C
8 x 31	8.5	31.5	6.3
10 x 38	10.3	38	10.5
14 x 51	14.3	51	13.8
22 x 58	22.2	58	16.2

Electrolines Est.

GOULD SHAWMUT

EURO/IEC Fuses & Accessories

gl-gL-gG, aM NH DIMENSION KNIFE-BLADE FUSE-LINKS



NH DIMENSION KNIFE-BLADE FUSE-LINKS, FUSE BASES, AND ACCESSORIES

Gould Shawmut NH Fuse-links, sizes 00, 0, 1, 2, 3 and 4 are rated 500 or 660* Volts AC with breaking capacities of 80kA or 120kA. All fuse-links include an indicator or striker and can accept a microswitch for remote signaling. They all have silver-plated knife blades and ceramic bodies. Accessories include 1, 2, 3 or 4-pole bases, barriers, shields, terminals, microswitch, etc.

Gould Shawmut recently acquired Lindner GmbH, a major supplier of NH fuses. These fuses are now being sold to markets worldwide through the Gould Shawmut distribution network.

* Fuse-links marked 660V will be re-marked (and safely used at) 690V AC in compliance with changes in IEC Standard 269, but should not be used above 726V AC.

Standards

- DIN 57636
- NFC 63210-63211
- CEI 269-1-2-2A
- UNE 21103
- VDE 0636-2-1, 2-2
- DIN 43620

Approvals

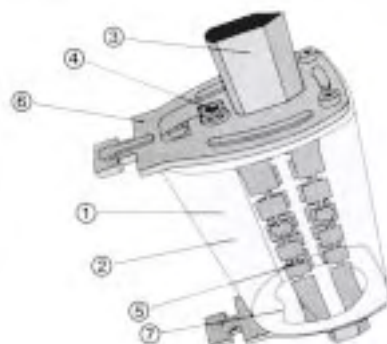
- Lloyd's Register of Shipping Bureau Veritas

gl-gL-gG

FULL RANGE PROTECTION

- Sizes 00, 0, 1, 2, 3, 4
- 500 and 660 Volt ratings - 4A through 1250A
- All ratings include indicator
- All equipped for microswitch mounting

- 1 Ceramic body
- 2 Quartz sand
- 3 Knife contact
- 4 Indicator
- 5 Melting element
- 6 End plate
- 7 Insulating joint



gl-gL-gG

FULL RANGE PROTECTION

Fuse-link with Striker

- Sizes 0, 1, 2, 3
- 500 and 660 Volt ratings - 32A through 630A
- All ratings include striker

aM

SHORT CIRCUIT PROTECTION

- Sizes 00, 0, 1, 2, 3
- 500 and 660 Volt ratings - 10A through 630A
- All ratings include indicator
- All equipped for microswitch mounting

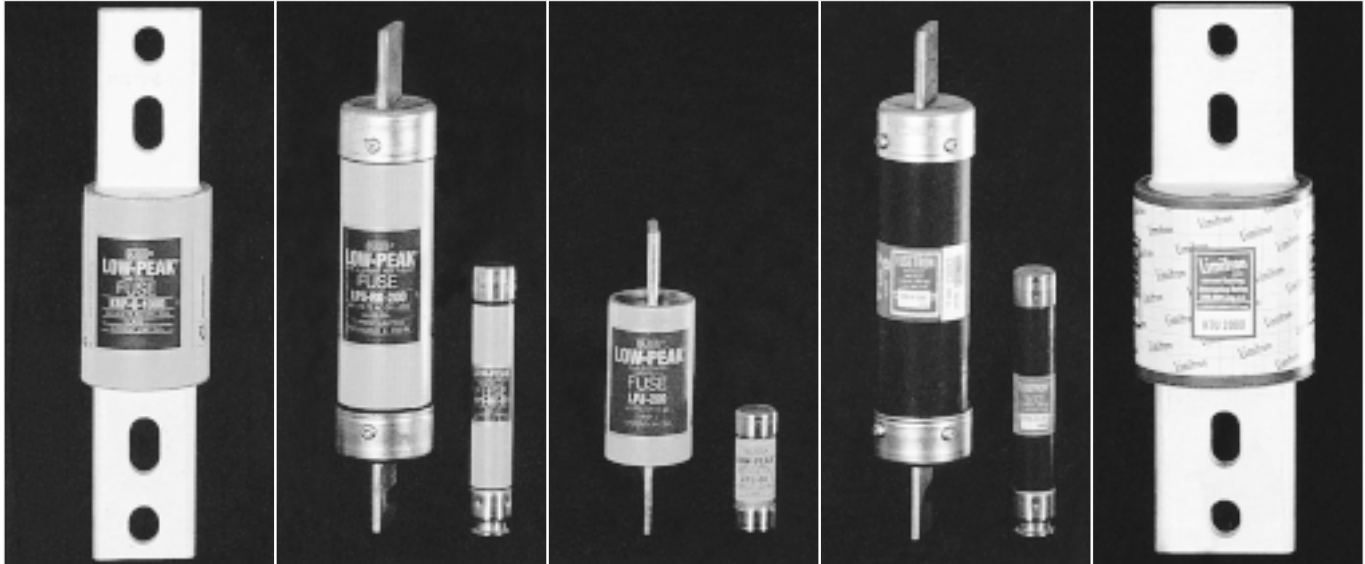
aM

SHORT CIRCUIT PROTECTION

Fuse-link with Striker

- Sizes 0, 1, 2, 3
- 500 and 660 Volt ratings - 32A through 630A
- All ratings include striker
- Certification
DIN 57636
VDE 60269
NFC 63210, 63211
IEC 269-1, 2, 2A
UNE 21103
- Approved by Lloyds Register of Shipping and Bureau Veritas

Low Voltage Power Distribution Fuses



LOW-PEAK YELLOW™ SYSTEM 300™

(Time-Delay)
KRP-C-SP (600V)
601 to 6000A
300,000AIR
Current Limiting
UL Class L:
CSA-HRC-L (200,000AIR)

The all-purpose silver linked fuse for both overload and short-circuit protection of high capacity systems (mains and large feeders). Time-delay (minimum of four seconds at five times amp rating for close sizing). Pass harmless surge currents of motors, transformers, etc., without overfusing and any sacrifice of short-circuit current limitation. The combination of LOW-PEAK dual-element time-delay fuses and LOW-PEAK KRP-C fuses is recommended as a total system specification. Easily selectively coordinated for blackout protection. Size of upstream LOW-PEAK® fuses need only be twice that of downstream LOW-PEAK® fuses (2:1 ratio). LOW-PEAK® fuses can reduce bus bracing; protect circuit breakers with low interrupting ratings as well as provide excellent overall protection of circuits and loads.

600 Volts AC

KRP-C-601 SP	KRP-C-1600 SP
KRP-C-650 SP	KRP-C-1800 SP
KRP-C-700 SP	KRP-C-2000 SP
KRP-C-750 SP	KRP-C-2500 SP
KRP-C-800 SP	KRP-C-3000 SP
KRP-C-900 SP	KRP-C-3500 SP
KRP-C-1000 SP	KRP-C-4000 SP
KRP-C-1200 SP	KRP-C-4500 SP
KRP-C-1350 SP	KRP-C-5000 SP
KRP-C-1400 SP	KRP-C-6000 SP
KRP-C-1500 SP	
KRP-CL-150	KRP-CL-400
KRP-CL-250	KRP-CL-450
KRP-CL-300	KRP-CL-500
KRP-CL-350	KRP-CL-600

*KRP-CL fuses have a Class L 800 amp case size; and not covered by U.L. Standards.

(Dual-Element, Time-Delay)
LPS-RK-SP (600VAC, 300VDC)
LPN-RK-SP (250VAC, 125VDC)
1/10 TO 600A
300,000AIR
Current Limiting
UL Class RK1:
CSA-HRCI-R (200,000AIR)

High performance; all-purpose fuses. Provide the very high degree of short-circuit limitation of LIMITRON fuses plus the overload protection of FUSETRON fuses in all types of circuits and loads. Can be closely sized to full-load motor currents for reliable motor overload protection as well as backup protection. Close sizing permits the use of smaller and more economical switches. LOW-PEAK fuses are rejection type but fit non-rejection type fuseholders. Thus, can be used to replace Class H, K1, K5, RK5 or other RK1 fuses.

250 Volts AC (125 Volts DC)

LPN-RK-1/10 SP	LPN-RK-12 SP
LPN-RK-1/10 SP	LPN-RK-15 SP
LPN-RK-1/10 SP	LPN-RK-17 1/2 SP
LPN-RK-1/2 SP	LPN-RK-20 SP
LPN-RK-1/10 SP	LPN-RK-25 SP
LPN-RK-1/10 SP	LPN-RK-30 SP
LPN-RK-1 SP	LPN-RK-35 SP
LPN-RK-1 1/8 SP	LPN-RK-40 SP
LPN-RK-1 1/4 SP	LPN-RK-45 SP
LPN-RK-1 1/2 SP	LPN-RK-50 SP
LPN-RK-1 3/4 SP	LPN-RK-60 SP
LPN-RK-2 SP	LPN-RK-70 SP
LPN-RK-2 1/2 SP	LPN-RK-80 SP
LPN-RK-2 3/4 SP	LPN-RK-90 SP
LPN-RK-3 SP	LPN-RK-100 SP
LPN-RK-3 1/2 SP	LPN-RK-110 SP
LPN-RK-3 3/4 SP	LPN-RK-125 SP
LPN-RK-4 SP	LPN-RK-150 SP
LPN-RK-4 1/2 SP	LPN-RK-175 SP
LPN-RK-5 SP	LPN-RK-200 SP
LPN-RK-5 1/2 SP	LPN-RK-225 SP
LPN-RK-6 SP	LPN-RK-250 SP
LPN-RK-6 1/2 SP	LPN-RK-300 SP
LPN-RK-7 SP	LPN-RK-350 SP
LPN-RK-8 SP	LPN-RK-400 SP
LPN-RK-9 SP	LPN-RK-450 SP
LPN-RK-10 SP	LPN-RK-500 SP
	LPN-RK-600 SP

600 Volts AC (300 Volts DC)

LPS-RK-(amps as above plus
LPS-RK-1/10 SP and LPS-RK-1/2 SP)
DC listed to UL198L

(Dual-Element, Time-Delay)
LPJ-SP
1 to 600A
300,000AIR (U.L.)
Current Limiting
UL Class J
CSA-HRCI-J (200,000AIR)

Provides the same high-performance, all purpose protection of Buss RK-1 LOW-PEAK Yellow fuses but is only one-half the size ... It's a space saver. Particularly applicable to IEC starter protection. Can be closely sized to full-load motor currents for reliable motor overload protection.

LPJ-1 SP	LPJ-25 SP
LPJ-1 1/4 SP	LPJ-30 SP
LPJ-1 1/2 SP	LPJ-35 SP
LPJ-2 SP	LPJ-40 SP
LPJ-2 1/4 SP	LPJ-45 SP
LPJ-2 1/2 SP	LPJ-50 SP
LPJ-2 3/4 SP	LPJ-60 SP
LPJ-3 SP	LPJ-70 SP
LPJ-3 1/2 SP	LPJ-80 SP
LPJ-4 SP	LPJ-90 SP
LPJ-4 1/2 SP	LPJ-100 SP
LPJ-5 SP	LPJ-110 SP
LPJ-5 1/2 SP	LPJ-125 SP
LPJ-6 SP	LPJ-150 SP
LPJ-6 1/2 SP	LPJ-175 SP
LPJ-7 SP	LPJ-200 SP
LPJ-8 SP	LPJ-225 SP
LPJ-9 SP	LPJ-250 SP
LPJ-10 SP	LPJ-300 SP
LPJ-12 SP	LPJ-350 SP
LPJ-15 SP	LPJ-400 SP
LPJ-17 1/2 SP	LPJ-450 SP
LPJ-20 SP	LPJ-500 SP
	LPJ-600 SP

FUSETRON®

(Dual-Element, Time-Delay)
FRS-R (600VAC, 250VDC)
FRN-R (250VAC, 125VDC)
1/10 to 600A
200,000AIR
Current Limiting
UL Class RK5: CSA-HRCI-R

Time-delay affords the same excellent overload protection of LOW-PEAK fuses of motors and other type loads and circuits having temporary in-rush currents such as caused by transformers and solenoids. FUSETRON fuses permit the use of smaller size and less costly switches. FUSETRON fuses fill rejection type fuseholders and can also be installed in holders for Class H fuses. They can physically and electrically replace Class H, K5, and other Class RK5 fuses.

250 Volts AC (125 Volts DC)

FRN-R-1/10	FRN-R-8
FRN-R-1/8*	FRN-R-9
FRN-R-15/100	FRN-R-10
FRN-R-1/4	FRN-R-12
FRN-R-3/4	FRN-R-15
FRN-R-1/2	FRN-R-17 1/2
FRN-R-3/10	FRN-R-20
FRN-R-1/2	FRN-R-25
FRN-R-9/10	FRN-R-30
FRN-R-9/10	FRN-R-35
FRN-R-1	FRN-R-40
FRN-R-1 1/8	FRN-R-45
FRN-R-1 1/4	FRN-R-50
FRN-R-1 1/2	FRN-R-60
FRN-R-1 3/4	FRN-R-70
FRN-R-2	FRN-R-75
FRN-R-2 1/4	FRN-R-80
FRN-R-2 1/2	FRN-R-90
FRN-R-2 3/4	FRN-R-100
FRN-R-3	FRN-R-110
FRN-R-3 1/2	FRN-R-125
FRN-R-4	FRN-R-150
FRN-R-4 1/2	FRN-R-175
FRN-R-5	FRN-R-200
FRN-R-5 1/2	FRN-R-225
FRN-R-6	FRN-R-250
FRN-R-6 1/4	FRN-R-300
FRN-R-7	FRN-R-350
FRN-R-7 1/2	FRN-R-400
	FRN-R-450
	FRN-R-500
	FRN-R-600

600 Volts AC (250 Volts DC)

FRS-R-(amps as above)
*Available in FRN-R only DC listed to UL 198L

LIMITRON®

(Fast-Acting)
KTU (600V)
601 to 6000A
Current Limiting
200,000AIR
UL Class L; CSA-HRC-L

Silverlinked fuse. Single-element units with no time-delay. Very fast-acting with a high degree of current limitation; provide excellent component protection. Particularly suited for protection of circuit breakers with lower interrupting ratings, and non-inductive loads such as lighting and heating circuits. Must be over-sized to prevent opening by the temporary harmless over-loads. In motor circuits, must be sized at approximately 300% of motor full-load current and thus will not provide overload protection.

600 Volts AC

KTU-400‡	KTU-1600
KTU-600‡	KTU-1800
KTU-601	KTU-2000
KTU-650	KTU-2500
KTU-700	KTU-3000
KTU-800	KTU-3500
KTU-1000	KTU-4000
KTU-1200	KTU-4500
KTU-1350	KTU-5000
KTU-1500	KTU-6000

‡Not Class L

LIMITRON®

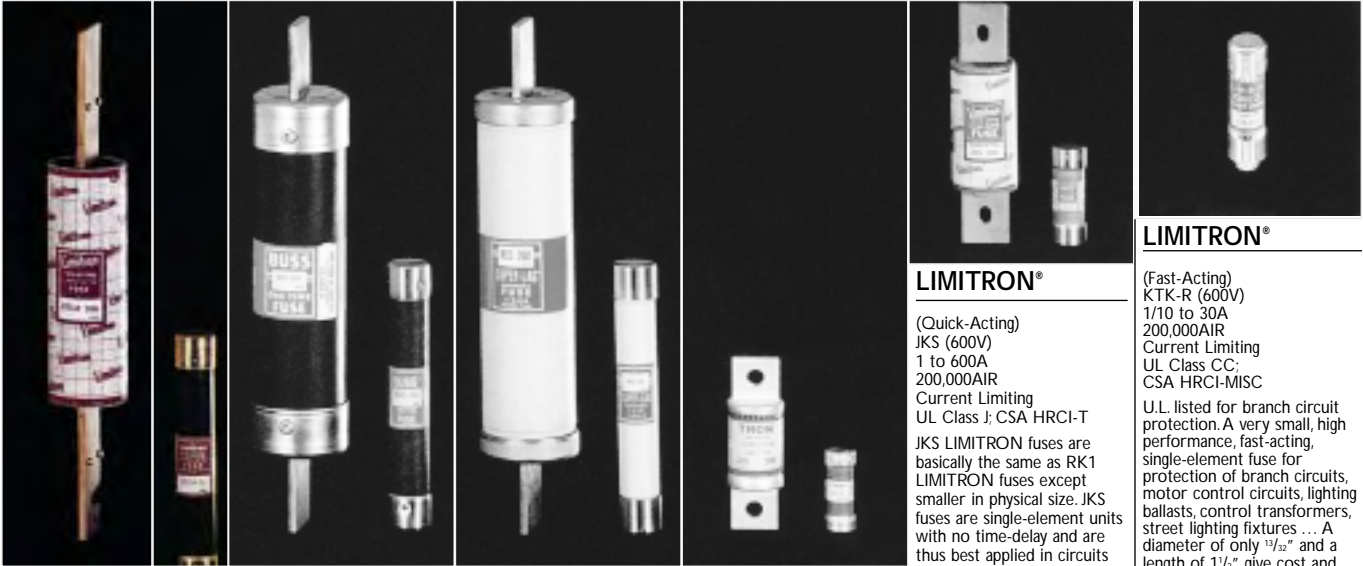
(Time-Delay)
KLU (600V)
601 to 4000A
Current Limiting
200,000AIC
UL Class L; CSA-HRC-L
10 seconds delay (minimum) at 500% of amp rating. Not as current limiting as KRP-C or KTU fuses.

600 Volts

KLU-601	KLU-1500
KLU-650	KLU-1600
KLU-700	KLU-2000
KLU-800	KLU-2500
KLU-1000	KLU-3000
KLU-1200	KLU-4000

Fuses

BUSSMANN



LIMITRON®

(Fast-Acting)
KTS-R (600V)
KTN-R (250V)
1/10 to 600A
200,000AIR
Current Limiting
UL Class RK1;
CSA-HRC1-R

Single-element, fast-acting fuses with no time delay. The same basic performance of the 601-6000A KTU fast-acting LIMITRON fuses. Provides a high degree of short-circuit current limitation (component protection). Commonly used to protect circuit breakers with lower interrupting ratings. If used in circuits with surge currents (motors, etc.) must be oversized to prevent opening. Incorporate Class R rejection feature. Can be inserted in non-rejection type fuseholders. Thus, can physically and electrically replace fast acting Class H, K1, K5, RK5, and other RK1 fuses.

250 Volts AC

KTN-R-1	KTN-R-70
KTN-R-2	KTN-R-80
KTN-R-3	KTN-R-90
KTN-R-4	KTN-R-100
KTN-R-5	KTN-R-110
KTN-R-6	KTN-R-125
KTN-R-8	KTN-R-150
KTN-R-10	KTN-R-175
KTN-R-12	KTN-R-200
KTN-R-15	KTN-R-225
KTN-R-20	KTN-R-250
KTN-R-25	KTN-R-300
KTN-R-30	KTN-R-350
KTN-R-35	KTN-R-400
KTN-R-40	KTN-R-450
KTN-R-45	KTN-R-500
KTN-R-50	KTN-R-600

600 Volts AC KTS-R-
(amps as above)

ONE-TIME

(General Purpose)
NOS (600V)
NON (250V)
1/10 to 600A
10,000AIR
Non Current Limiting
UL Class H
(K-5—NON-1 to 60;
NOS-5 to 60)

With an interrupting rating of 10,000 amp and generally not considered current limiting, Class H ONE-TIME fuses are used in circuits with low available short-circuit currents. Single-element ONE-TIME fuses do not incorporate time-delay. The K-5 ratings have a 50,000AIR.

250 Volts AC

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

600 Volts AC

NOS-(amps as above)
*Available only as NON

SUPERLAG®

(General Purpose)
RES (600V)
REN (250V)
1 to 600A
10,000AIR
Non Current Limiting
UL Class H

Time-lag is excellent for a class H fuse; affords slower response to temporary overloads. After opening, SUPERLAG fuse links can be replaced and the fuse reused.

250 Volts

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

600 Volts AC

RES-(amps as above)

RENEWABLE LINKS

250 Volts—LKN-(amps as above)
600 Volts—LKS-(amps as above)

T-TRON®

(Fast-Acting)
JJS (600V) 1-800A
JJN (300V) 1-1200A
200,000AIR
Current Limiting
UL Class T; CSA HRC1-T

The space-savers. Counterpart of the KTN-R/KTS-R LIMITRON fuses but only one-third the size; thus, particularly suited for critically restricted space. A single-element fuse; extremely fast-acting. Provide a high degree of current limitation on short-circuits for excellent component protection. Must be oversized in circuits with inrush currents common to motors, transformer, and other inductive components. Commonly applied in electric heat circuits, load centers, disconnect switches, meter stacks, etc. The small size of T-TRON fuses permits them to be installed in panelboards and control centers for system upgrading when existing circuit breakers cannot safely interrupt larger available short-circuit currents.

300 Volts AC

JJN-1	JJN-110
JJN-2	JJN-125
JJN-3	JJN-150
JJN-6	JJN-175
JJN-10	JJN-200
JJN-15	JJN-225
JJN-20	JJN-250
JJN-30	JJN-350
JJN-35	JJN-400
JJN-40	JJN-450
JJN-45	JJN-500
JJN-50	JJN-600
JJN-60	JJN-700*
JJN-70	JJN-800
JJN-80	JJN-1000†
JJN-90	JJN-1200‡
JJN-100	

600 Volts

JJS-(amps as above)
*Available as JJN only
†Consult Customer Service for availability when ordering JJS only.

LIMITRON®

(Quick-Acting)
JKS (600V)
1 to 600A
200,000AIR
Current Limiting
UL Class J; CSA HRC1-T

JKS LIMITRON fuses are basically the same as RK1 LIMITRON fuses except smaller in physical size. JKS fuses are single-element units with no time-delay and are thus best applied in circuits free of temporary overloads.

600 Volts AC

JKS-1	JKS-80
JKS-3	JKS-90
JKS-4	JKS-100
JKS-5	JKS-110
JKS-6	JKS-125
JKS-10	JKS-150
JKS-15	JKS-175
JKS-20	JKS-200
JKS-25	JKS-225
JKS-30	JKS-250
JKS-35	JKS-300
JKS-40	JKS-350
JKS-45	JKS-400
JKS-50	JKS-450
JKS-60	JKS-500
JKS-70	JKS-600

LIMITRON®

(Fast-Acting)
KTK-R (600V)
1/10 to 30A
200,000AIR
Current Limiting
UL Class CC;
CSA HRC1-MISC

U.L. listed for branch circuit protection. A very small, high performance, fast-acting, single-element fuse for protection of branch circuits, motor control circuits, lighting ballasts, control transformers, street lighting fixtures ... A diameter of only 1 1/32" and a length of only 1 1/2" give cost and space savings. A grooved ferrule permits mounting in "rejection" type fuseholders as well as standard non-rejection type holders.

600 Volts AC

KTK-R-1/10	KTK-R-4
KTK-R-1/8	KTK-R-5
KTK-R-3/10	KTK-R-6
KTK-R-1/4	KTK-R-7
KTK-R-3/10	KTK-R-8
KTK-R-1/2	KTK-R-9
KTK-R-3/4	KTK-R-10
KTK-R-1	KTK-R-12
KTK-R-1 1/2	KTK-R-15
KTK-R-2	KTK-R-20
KTK-R-3	KTK-R-25
KTK-R-3 1/2	KTK-R-30

Type SC

300V
1 to 60A
100,000AIR
Current Limiting; UL Class G
CSA HRC1-MISC

A high performance general-purpose branch circuit fuse for lighting, appliance, and motor branch circuits of 300 volts (or less) to ground. Fuse diameter is 1 1/32"; lengths vary with ampere rating from 1 1/16" to 2 1/4" (serves as rejection feature to prevent oversizing).

300 Volts AC

SC-1/2	SC-15
SC-1	SC-20
SC-1 1/2	SC-25
SC-2	SC-30
SC-3	SC-35
SC-4	SC-40
SC-5	SC-45
SC-6	SC-50
SC-8	SC-60
SC-10	

CC-TRON™

(Time-Delay)
FNO-R (600V)
1/4 to 10A
200,000AIR
Current Limiting
UL Class CC
CSA HRC1-MISC

Ideal for control transformer protection. Meets requirements of NEC 430-72 (b) & (c) and UL 508. Its miniature design and branch circuit rating make it ideal for motor branch circuit and short circuit protection required by NEC 430-52.

600 Volts AC

FNO-R-1/4	FNO-R-3
FNO-R-1/2	FNO-R-4
FNO-R-3/10	FNO-R-5
FNO-R-1	FNO-R-6
FNO-R-1 1/10	FNO-R-7 1/2
FNO-R-1 1/2	FNO-R-8
FNO-R-2	FNO-R-9
FNO-R-2 1/2	FNO-R-10

Electrolines Est.

Fuses

BUSSMANN

Medium Voltage Fuses; Medium And High Voltage Fuse Links

Selection Guide

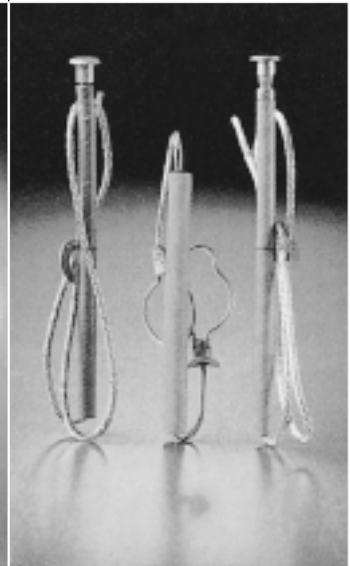
Selection Guide—Medium Voltage Fuses; Medium And High Voltage Fuse Links

Motor Circuit Protection

Potential & Small Power Transformers

Transformer & Feeder Protection

Medium & High Voltage Fuse Links



R-Rated Fuses

2400 Volt

JCK 2R-24R Clip Mount

JCK-A 2R-24R Clip Mount

W/Hookeye

JCH 2R-24R Clip Mount

W/Hookeye;

Hermetically

Sealed

4800 Volt

JCL 2R-24R Clip Mount

JCL-A 2R-24R Clip Mount

W/Hookeye

JCG 2R-24R Clip Mount

W/Hookeye;

Hermetically

Sealed

7200 Volt

JCR 2R-24R Clip Mount

W/Hookeye

E-Rated Fuses

2475 Volt

JCD .25E-4E Non-Indicating

5500 Volt

JCW .25E-5E Non-Indicating

JCE .25E-4E Non-Indicating

JCQ .5E-10E Indicating

8300 Volt

JCI .5E-10E Indicating

15,500 Volt

JCT .5E-10E Indicating

E-Rated Fuses

2750 Volt

JCX .5E-750E Clip Mount

5500 Volt

JCY .5E-400X Clip Mount

JCU 10E-750E Clip Mount

8300 Volt

JCZ 15E-200E Clip Mount

JDM 8E-40E Clip Mount

JDN 15E-100E Clip Mount

JDZ 20E-125E Clip Mount

15,500 Volt

JCN 15E-200X Clip Mount

JDM 8E-40E Clip Mount

JDN 15E-100E Clip Mount

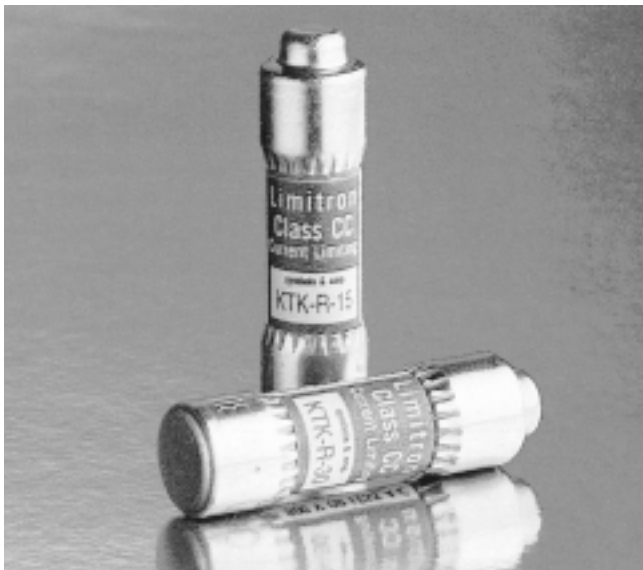
EEI-NEMA
Type K & T
High Surge
Type H
Type N

BUSSMANN

Power Distribution Fuses—600 Volts (or less)

LIMITRON® Fast-Acting—KTK-R

CATALOG SYMBOL KTK-R • FAST-ACTING • 1/10 TO 30 AMPERES • 600 VOLTS (OR LESS) • CURRENT LIMITING
• INTERRUPTING RATING—200,000A RMS SYM. • U.L. LISTED (BRANCH CIRCUIT FUSE) CLASS CC



Application and Sizing

Apply KTK-R fuses on branch circuits where non-time-delay fuse characteristics with current-limiting short-circuit protection is needed. Apply for motor branch circuit protection the same as any non-time-delay fuse. KTK-R fuses are well suited to meet the requirements of the National Electrical Code, Section 430-72 concerning the overcurrent protection of motor control circuits. With some exceptions, this section requires overcurrent protection at the conductor ampacity for control conductors extending beyond the control equipment enclosures.

Catalog Numbers (Symbol and Amperes)

KTK-R-1/10	KTK-R-3/4	KTK-R-3 1/2	KTK-R-9
KTK-R-1/8	KTK-R-1	KTK-R-4	KTK-R-10
KTK-R-2/10	KTK-R-1 1/2	KTK-R-5	KTK-R-12
KTK-R-1/4	KTK-R-2	KTK-R-6	KTK-R-15
KTK-R-3/10	KTK-R-2 1/2	KTK-R-9	KTK-R-20
KTK-R-1/2	KTK-R-3	KTK-R-8	KTK-R-30

Carton quantity—10; Shelf Package—100. Weight Per Carton—3.1 oz.

Power Distribution Fuses—600 Volts (or less)

SC Time-Lag



Application

As a 300 volt branch circuit fuse, the Type SC fuse has broad general application. They are ideal for fluorescent fixtures subject to high short-circuit currents—minimize damage caused by faulty ballast; isolate a problem to a single fixture. Fuses can be installed in Buss HPF type fuseholders (recognized by UL for branch circuit protection).

Fuseholders for SC Fuses

Catalog Number	Description	Terminal Type
HPF-EE	1-15A	Solder (w/o leads)
HPF-F-EE	1-15A	Leads; 10" #18 copper insul. wire
HPF-JJ	16-20A	Solder (w/o leads)

Ampere Ratings—SC Fuses (300 Volts AC)

Catalog Number	Ctn. Qty.	Weight* Lbs.	Weight* Kg	Catalog Number	Ctn. Qty.	Weight* Lbs.	Weight* Kg			
SC-1/2	4	0.600	0.272	SC-20	4	0.064	0.029			
SC-2				SC-25	4	0.040	0.018			
SC-3				SC-30	2	0.750	0.340			
SC-4				SC-35						
SC-5				SC-40						
SC-6				SC-45						
SC-8				SC-50						
SC-10				SC-60						
SC-15										

* Weight per carton

† Contact Bussman for DC ratings

Dimensional Data

Fuse	Length	Ferrule
SC-1 to SC-15	1 5/16"	
SC-20	1 13/32"	13/32"
SC-25 and SC-30	1 5/8"	
SC-35 and SC-60	2 1/4"	

Electrolines Est.

GENERAL ELECTRIC

9F60

GE CURRENT-LIMITING POWER FUSE

TYPES EJ-1 AND EJO-1

TYPE EJ-1 FOR USE INDOORS OR INSIDE AN ENCLOSURE ONLY TYPE EJO-1 FOR USE INDOORS OR OUTDOORS

In the selection of current-limiting power fuses for a particular application, it is important to consider all factors affecting the installation. Specifically, it is necessary to know the anticipated load current and the magnetizing inrush currents which will be available. If problems of overloads and the coordination of the fuse and other protective-device operating times are encountered, it will be necessary to exercise caution in the selection of proper fuse ratings to

assure a properly coordinated installation. Generally, the following important factors should be fully considered.:

- Current rating
- Voltage rating
- Frequency rating
- Location
- Mounting
- Coordination

Each of these factors, insofar as they characteristically apply to General

Electric power fuses, is summarized in Table I.

CURRENT RATINGS

All General Electric current-limiting power fuses, Types EJ-1 and EJO-1, are general-purpose fuses. (Function Class "g" – ANSI C37.40-3.2.2.2).

TABLE I
SUMMARY OF RATINGS OF CURRENT-LIMITING POWER FUSES, TYPES EJ-1 AND EJO-1

Voltage Ratings kV*		Continuous Current Ratings Amperes		Interrupting Ratings 60 Hertz*	
Nominal	Max	EJ-1 (Indoor)	EJO-1 (Outdoor)	Total Rms Amp (Asymm)	Max 3Ø MVA (Symm)
0.6	0.625	3E-10E	–	100,000	–
2.4	2.75	1E-200E	–	60,000	155
2.4	2.75	–	1E-200E	80,000	210
2.4/4.16	2.75/4.76	250E-450E	–	80,000	210/360
4.8	5.5	–	0.5E-200E	80,000	415
4.8	5.5	0.5E-25E	–	100,000	515
4.8	5.5	0.5E-3E	–	80,000	415
7.2	8.25	0.5E-3E	–	80,000	620
7.2	8.25	–	0.5E-200E	80,000	620
14.4	15.5	0.5E-3E	0.5E-3E	190,000	2950
14.4	15.5	–	5E-10E	130,000	2020
14.4	15.5	–	15E-100E	60,000	935
14.4	15.0	125	–	60,000	925
14.4	15.0	150-175	–	50,000	780
23.00	25.8	–	0.5E-10E	70,000	1740
23.0	25.8	–	15E-100E	40,000	1000
34.5	38.0	–	1E-10E	70,000	2600
34.5	38.0	–	15E-80E	20,000	750

*May be applied at 50 Hertz without derating.

GENERAL ELECTRIC

The fuse voltage rating, is permitted to exceed the system voltage by any desired value except for limitations imposed by the generated transient voltage. This is important because the unique current-limiting action of the fuse is characterized by the generation of transient (50 to 500 microseconds to peak) arc voltages above normal circuit voltage. The maximum peak arc voltage which can occur on General Electric current-limiting power fuses at fuse-rated short-circuit current is specified in Table II (Table 5 of ANSI Standard C37.46).

MOUNTINGS

Fuse Supports

Mountings of the nondisconnecting type are available. They are used generally in voltage transformer circuits or where there is some other disconnecting or isolating device in series with the fuse in the circuit.

Fuse Disconnecting Switches

These switches are also available and have the feature of serving as disconnecting switches to isolate the equipment which they protect. They are not intended to be used for breaking load or magnetizing current.

TABLE II
MAXIMUM PERMISSIBLE
OVERVOLTAGE FOR
CURRENT-LIMITING
POWER FUSES

Nominal System Voltage (kV)	Rated Maximum Voltage (kV)	Maximum Peak Overvoltage (kV)
2.4	2.75	9
4.8	5.5	17
7.2	8.25	25
13.8	15.0	45
14.4	15.5	45
23.0	25.8	75
34.5	38.0	109

9F62

GENERAL ELECTRIC

CURRENT-LIMITING FUSES

TYPES EJO-1

In selecting current-limiting power fuses for a particular application, it is important to consider all factors affecting the installation. Thus, it is necessary to consider not only anticipated load current and transformer magnetizing inrush, but also overloads and the characteristics of other protective devices to ensure a properly coordinated installation. Generally, the following important factors should be fully considered:

- Current rating
- Voltage rating
- Frequency rating
- Interrupting rating
- Location
- Coordination

Each of these factors, insofar as it is characteristically applies to General Electric power fuses, is briefly summarized in Table I.

CURRENT RATINGS

All General Electric Model 9F62 current-limiting power fuses are general purpose fuses (function class "g" – ANSI/IEEE C37.40-3.1-1981).

TABLE I
SUMMARY OF RATINGS OF 9F62
CURRENT-LIMITING POWER FUSES

Voltage kV	Continuous Current Ratings Amperes	Interrupting Ratings 60 Hertz	
		Amperes (rms) Symmetrical	Max. 3 ϕ MVA (symm.)*
Max.	EJ-1 (Indoor/Outdoor)		
2.8	25E - 65E	50,000	242
5.5	25E - 450E	50,000	476
8.3	20E - 250E	50,000	718
15.5	20E - 200E	50,000	1342

* These symmetrical ratings can be converted to asymmetrical values by multiplying them by 1.6

GENERAL ELECTRIC

VOLTAGE RATINGS

The maximum peak arc voltage which can occur on General Electric 9F62 current-limiting power fuses at fuse maximum-rated voltage is specified in Table II. Wire-element fuses normally produce arc voltages independent of system voltage. In the 9F62 fuse, however, where arc voltage control is achieved by the use of notched ribbon elements, the maximum peak overvoltage is affected by the system voltage.

INTERRUPTING RATINGS

The interrupting rating of power fuses should equal or exceed the maximum available short-circuit duty at the point in the system where the fuses are to be installed. Note that the interrupting ratings for 9F62 fuses are expressed in symmetrical amperes as opposed to the asymmetrical amperes interrupting ratings published for the 9F60 fuses. Thus, any comparison between interrupting ratings of the two designs must recognize this difference. Since system fault calculations are usually performed in terms of symmetrical currents, this change in how the fuse interrupting rating is expressed eliminates the need for conversion from asymmetrical to symmetrical values.

LOCATION

All 9F62 fuses are designed for outdoor use and therefore may also be used either in outdoor enclosures or indoor.

MOUNTING Fuse Supports

Mountings of the nondisconnecting type are available. They are generally used in voltage transformer circuits, or where there is some other disconnecting or isolating device in series with the fuse in the circuit.

When replacing a larger-diameter 9F60 fuse with a smaller-diameter 9F62 fuse, two options are available. Obviously, one option is to change the clips into which the fuse fits. The other option is to purchase a pair of adapters to slip over the ferrules of a 2-inch diameter (C) fuse that allow it to be used in clips intended for 3-inch diameter (D) fuses.

Fuse Disconnecting Switches

Disconnecting switches that isolate the equipment they protect are also available. They are not intended to be used for breaking load or magnetizing current.

**TABLE II
FUSE MAXIMUM PEAK OVERVOLTAGE (ARC VOLTAGE) AT SPECIFIED TEST VOLTAGE**

Test Voltage	Model	Maximum Arc Voltage	Maximum Arc Voltage Permitted, ANSI
15.5 kV	FDD200 FDD125	48 kV	49 kV
15.5 kV	DDD100 DDD080	46 kV	49 kV
15.5 kV	DDD065 DDD050	43 kV	49 kV
15.5 kV	DDD030 DDD020	34 kV	49 kV
8.3 kV	FCC250 FCC175	23.5 kV	26 kV
8.3 kV	DCC150 DCC125	22 kV	26 kV
8.3 kV	DCC100 DCC065	20.5 kV	26 kV
8.3 kV	HCC050 HCC020	18.5 kV	26 kV
5.5 kV	FCB450 FCB250	16 kV	18 kV
5.5 kV	DCB200 DCB080	14.5 kV	18 kV
5.5 kV	HCB065 HCB025	13 kV	18 kV
2.75 kV	HCB065 HCB025	7.5 kV	9 kV

ELSA- FUSE LINK

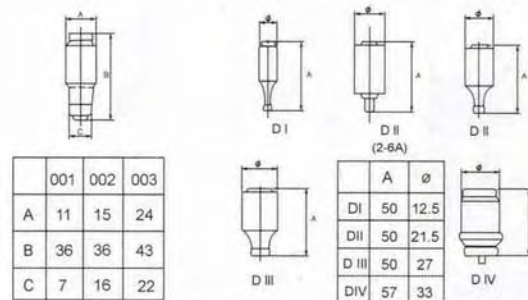
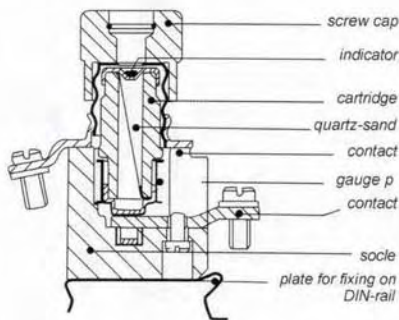
DO AND D FUSE LINK

Application:

This system of Neo D-fuse-links is proper to protect cables and electrical wires at a rated voltage of 380V AC and 250V DC. The fusing-indicators, in several colors, allow to show both the rating and the fusion of the cartridge.

A suitable gauge must be inserted in the base and the whole device is blocked by means of the screw cap. In this way we have got a non-interchangeability of the fuselinks with others of different currents.

SPECIFICATION							
SIZE(MM)	D01	D02	D03	D I	D II	D III	D IV
VOLT	380V	380V	380V	500V	500V	500V	500V
2A	•	•			•		
4A	•	•			•		
6A	•	•			•		
10A	•	•			•		
16A	•	•			•		
20A	•	•				•	
25A	•	•				•	
35A			•			•	
50A			•			•	
63A			•			•	
80A				•			•
100A				•			•





ADAPTER

Adapter
อแดปเตอร์

E27	A	2	4	6	10	16	20	25	E33	35	50	63
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D FUSE

D Fuse

E27	A	2	4	6	10	16	20	25	E33	35	50	63
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D-CARTRIDGE FUSE

D-Cartridge Fuse

Type
RT
E27-25A
E33-63A



FUSE CAP

Fuse Cap

Type	
Standard	E27
Star Model	E27
Standard	E33
Star Model	E33



H.R.C.FUSE LINK

H.R.C.Fuse Link

A
6
10
16
20
25
32
40
50
63
80
100
125
160
200
250
315
400
500
630



LV. H.R.C. Load Break Switch

Type	Size	A
Terminal	00	160
Clamp		
Terminal	1	250
Clamp		
Terminal	2	400
Clamp		
Terminal	3	630



Triple Pole Fuse Bases

Type	Size	A
Terminal	00	160
Clamp		
Terminal	1	250
Clamp		
Terminal	2	400
Clamp		



Single Pole Fuse Bases

Type	Size	A
Terminal	00	160
Clamp		
Terminal	1	250
Clamp		
Terminal	2	400
Clamp		
Terminal	3	630



Fuse Pulling

Type	For Fuse Size
H.R.C.	00, 1, 2, 3



Fuse Bases

Type	A
E 27	25
E 33	63



Switch Board Fuse

Type	A
E 27	25
E 33	63



Switch Board Fuse

Type	A
E 27	25
E 33	63



Switch Board Fuse

Type	A	Price
E 27	25	
E 33	63	

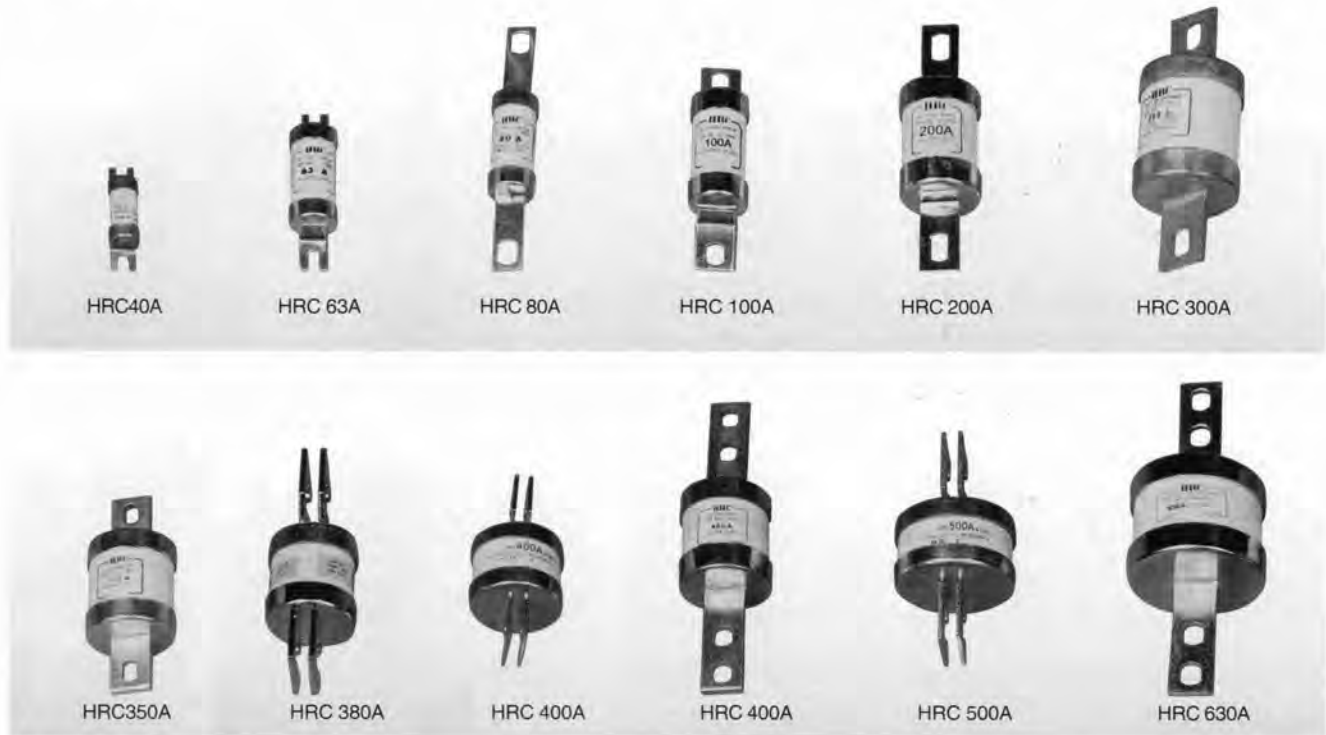


Switch Board Fuse

Type	A	Price
E 27	25	
E 33	63	

ELSA- FUSE LINK

HRC FUSE



NT	2A~32A	100	16Kg	15.5Kg	32.5 X 17.5 X 32
TIS	32A~63A	500	28.5	27	48 X 25.5 X 25.5
TCP	63A~100A	300	23	32	46.5 X 25 X 31.5
TE	125A~200A	120	27	25.5	53.5 X 30 X 23.5
TBC	32A~100A	480	28	27	50 X 28 X 31
TKF	250A~300A	90	29	28	50 X 31 X 29.5
TMF	400A	60	29	28	37.5 X 31 X 32
95TY	50A~315A	120	26	24	49 X 26 X 22.5
171TN	400A	100	29.5	27.5	47 X 30 X 30
387TW	500A~800A	40	26	24	40 X 29 X 32.5
TM	400A	30	17	16	44 X 23 X 28.5
TTM	500A~630A	24	27	26	44 X 31 X 42
TCM	800A	24	27	26	44 X 31 X 42

ELSA-FUSE AND BASE

NT HRC LOW VOLTAGE FUSE AND BASE

NT type low voltage H.R.C. fuse features light in weight, small in size, low in power, loss and high in beaking capacity. This product has been widely used in overload and short circuit protection of electric installations.

This product conforms to IEC269 and VDE0636 standards of the rating at the world advanced level.

Specifications



Type	Fuse link				Fuse base		
	Rated current(A)	Rated voltage(V)	Rated power loss(W)	Weight (kg)	Type	Rated current(A)	Weight (kg)
NT00C NT00	2	500,600	0.41	0.15	sist 101	160	0.2
	4		0.81				
	6		0.62				
	10		1.08				
	16		1.60				
	20		1.81				
	25		2.31				
	32		3.07				
	36		3.17				
	40		4.05				
	50		4.25				
	63		5.7				
	80		7				
	100		10.3				
NT0	6	500,600	4.70	0.2	sist 101	160	0.32
	10	500,600	1.42				
	16	500,600	2.45				
	20	500,600	2.36				
	35	500,600	2.7				
	32	500,600	3.74				
	35	500,600	4.3				
	40	500,600	4.7				
	50	500,600	5.5				
	63	500,600	6.9				
	80	500,600	7.6				
	100	500,600	8.9				
	125	500	10.1				
	160	500	15.2				

Type	Fuse link				Fuse base		
	Rated current (A)	Rated voltage (V)	Weight (kg)	Rated power loss(A)	Type	Rated current (A)	Weight (kg)
NT1	80	500 600	6.2	0.36	Sist201	250	0.8
	100	500 600	7.5				
	125	500 600	10.2				
	160	500 600	13				
	200	500 600	15.2				
	224	500	16.8				
	250	500	18.3				

ELSA - FUSE HOLDER

ST TYPE FUSE HOLDER



ST63-1P



ST63-2P



ST63-4P

Rated Voltage: 220V AC 380V AC
500V AC Rated Current: up to 100A
Standard specifications: IEC 269
IEC 63211



ST32-1P



ST32-2P



ST32-3P



ST32-4P



ST100-1P



ST100-2P



ST100-3P



ST100-4P

Size of fuse link	Rated current A	Number of poles	Order No.	Packing Units	Approx weigh/unit kg
10X38	32	1	1800101	12	0.075
		1+N	1800201	6	0.16
10X38	32	2	1800202	6	0.15
10X38	32	3	1800301	4	0.225
		3+N	1800401	3	0.31
14X51	63	1	1801101	6	0.18
		1+N	1801201	3	0.37
14X51	63	2	1801202	3	0.36
14X51	63	3	1801301	2	0.54
		3+N	1801401	2	0.73
22X58	100	1	1802101	6	0.29
		1+N	1802201	3	0.60
22X58	100	2	1802202	3	0.58

Size of fuse link	Rated current A	Number of poles	Order No.	Packing Units	Approx weigh/unit kg
22X58	100	3	1802301	2	0.88
		3+N	1802401	2	1.20
10X38	32	1+LED	1800102	12	0.075
		1+N+LED	1800210	6	0.16
10X38	32	2+LED	1800211	6	0.15
10X38	32	3+LED	1800302	4	0.225
		3+N+LED	1800402	3	0.31
14X51	63	1+LED	1801102	6	0.18
		1+N+LED	1801210	3	0.37
14X51	63	2+LED	1801211	3	0.36
14X51	63	3+LED	1801302	2	0.54
		3+N+LED	1801402	2	0.73



ELSA- FUSE HOLDER

FUSE HOLDER



FS-101-1PL



FS-102-2PL



FS-101-1P



FS-102-2P



FS-301-1P,30A



RT20-32-1P



RT-32-1P



WS(RT18)1P ϕ 10x38



RT-14



ST-32 1P



ST-63 1P+N



SN 32A 1P+N



SN 63A 1P+N



SN 63A 3P+N



ST-32 3P+LED



ST-32 4P+LED



NT00/3P



NT00



NH-3X



BJ-60



Cutout-60



BJ-30



Depagne-4P(14x51)



Depagne-2P(14x51)



Beromet



PC200A (NT-1-3P)

ELSA- KNIFE SWITCH



FLUID LEVEL SWITCH

