

# Section 22: Fuses & Circuit Breakers

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# Fuses & Circuit Breakers - Fuses



## LPJ\_SP Class J Low Voltage, Branch Circuit Rated Fuses

Dual-element, time-delay fuse; 10 seconds (minimum) at 500% rated amps. Now available with optional permanent indication on select ratings. Copper fuse element. Separate overload and short-circuit elements provide time delay for sizing of high inrush loads linked with Class J current limitation. Selective coordination ratio of 2:1 (within Low-Peak fuse family) prevents electrical shutdowns from extending beyond the failed circuit. Series combination ratings with branch circuit breakers allows broad range of coverage, independent of breaker manufacturer. Ratings:Volts 600Vac (or less), 300Vdc (or less), Amps: 1-600A, IR: 300,000A RMS Sym., 100,000A dc.

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

## BAF Fuses

Fast acting. Physical size is 13/32" x 1 1/2" (10.3mm x 38.1mm). Construction is fibre tube; albaloy plated brass endcaps. Voltage rating is 250V AC (2/10 - 15A), 125V AC (20 - 30A). Interrupting rating is 10,000A at 125V AC. Agency approvals are Std. 248-14 UL 0-15/250V, Guide JDYX, File E19180. CSA Certified, 0-15/250V, Class 1422-01, File 53787.



Part #	Amp	Part #	Amp
BAF-1/4	1/4	BAF-6	6
BAF-1/2	1/2	BAF-6 1/4	6 1/4
BAF-6/10	6/10	BAF-7	7
BAF-8/10	8/10	BAF-8	8
BAF-1	1	BAF-9	9
BAF-1 1/2	1 1/2	BAF-10	10
BAF-1 8/10	1 8/10	BAF-12	12
BAF-2	2	BAF-15	15
BAF-2 1/2	2 1/2	BAF-20	20
BAF-3	3	BAF-25	25
BAF-4	4	BAF-30	30
BAF-5	5	-	-



## BBS Fuses

Fast acting. Physical size is 13/32" x 1 3/8" (10.3mm x 35mm). Construction is fibre cartridge. Interrupting rating is 10,000A. Ampere rating is 1/10 - 30A. Voltage rating is 600V AC (1/10 - 5A), 250V AC (6 -10A), 48V AC (12 - 30A). Agency approvals are Std. 248-14 UL Listed, 0-5A/600V, Guide JDYX, File E19180 CSA Certified, 0-5A/600V, Class 1422-01, File 53787.



Part #	Amp	Part #	Amp
BBS-1/10	1/10	BBS-2	2
BBS-2/10	2/10	BBS-3	3
BBS-1/4	1/4	BBS-4	4
BBS-4/10	4/10	BBS-5	5
BBS-1/2	1/2	BBS-6	6
BBS-6/10	6/10	BBS-7	7
BBS-3/4	3/4	BBS-10	10
BBS-8/10	8/10	BBS-12	12
BBS-1	1	BBS-15	15
BBS-1 1/2	1 1/2	BBS-20	20
BBS-1 6/10	1 6/10	BBS-25	25
BBS-1 8/10	1 8/10	BBS-30	30

## FNM Fusetron® Fuse

Time-delay. Physical size is 13/32" x 1 1/2" (5AG) (10.3mm x 38.1mm). Construction is fibre tube. Ampere ratings are 1/10 - 30 amps. Voltage rating is 250 volts AC (or less). Agency approvals are Std. 248-14 UL Listed, 0-10/250V; 12-15/125V; File E19180, Guide JDYX CSA Certified, 1-10/250V; Class 1422-01, 12-15/125V; File 53787



### 125V

Part #	Amp
FNM-12	12
FNM-15	15

### 250V

Part #	Amp	Part #	Amp
FNM-1/10	1/10	FNM-2 1/4	2 1/4
FNM-1/8	1/8	FNM-2 1/2	2 1/2
FNM-15/100	15/100	FNM-2 8/10	2 8/10
FNM-2/10	2/10	FNM-3	3
FNM-1/4	1/4	FNM-3 2/10	3 2/10
FNM-3/10	3/10	FNM-3 1/2	3 1/2
FNM-4/10	4/10	FNM-4	4
FNM-1/2	1/2	FNM-4 1/2	4 1/2
FNM-6/10	6/10	FNM-5	5
FNM-3/4	3/4	FNM-5 6/10	5 6/10
FNM-8/10	8/10	FNM-6	6
FNM-1	1	FNM-6 1/4	6 1/4
FNM-1 8/10	1 8/10	FNM-7	7
FNM-1 1/4	1 1/4	FNM-8	8
FNM-1 4/10	1 4/10	FNM-9	9
FNM-1 6/10	1 6/10	FNM-10	10
FNM-2	2	-	-

### 32V



Part #	Amp
FNM-20	20
FNM-25	25
FNM-30	30

# Fuses & Circuit Breakers - Fuses



## FNQ-R Fuses

Time-delay, rejection type branch circuit fuse Class CC. Physical size is 13/32" x 1 1/2" (10.3mm x 38.1mm). Construction is melamine tube. Ampere ratings are 1/4 - 30 amps. Voltage rating is 600V AC or less. Interrupting rating is 200,000A RMS Sym. Agency approvals is Std. 248-4, Class CC UL Listed, Guide JDDZ, File E4273 CSA Certified, Class 1422-01, File 53787.



Part #	Amp	Part #	Amp
FNQ-R-1/4	1/4	FNQ-R-2 8/10	2 8/10
FNQ-R-3/10	3/10	FNQ-R-3	3
FNQ-R-4/10	4/10	FNQ-R-3 2/10	3 2/10
FNQ-R-1/2	1/2	FNQ-R-3 1/2	3 1/2
FNQ-R-6/10	6/10	FNQ-R-4	4
FNQ-R-3/4	3/4	FNQ-R-5	5
FNQ-R-8/10	8/10	FNQ-R-6	6
FNQ-R-1	1	FNQ-R-6 1/4	6 1/4
FNQ-R-1 1/8	1 1/8	FNQ-R-7 1/2	7 1/2
FNQ-R-1 1/4	1 1/4	FNQ-R-8	8
FNQ-R-1 3/10	1 3/10	FNQ-R-9	9
FNQ-R-1 4/10	1 4/10	FNQ-R-10	10
FNQ-R-1 1/2	1 1/2	FNQ-R-12	12
FNQ-R-1 6/10	1 6/10	FNQ-R-15	15
FNQ-R-1 8/10	1 8/10	FNQ-R-20	20
FNQ-R-2	2	FNQ-R-25	25
FNQ-R-2 1/4	2 1/4	FNQ-R-30	30
FNQ-R-2 1/2	2 1/2	-	-

## FNQ Fuses

Time-delay. Physical size is 13/32" x 1 1/2" (5 AG) (10.3 x 38.1 mm). Construction is fibre tube. Ampere ratings is 1/10 - 30 amps. Voltage rating is 500V AC or less. Interrupting rating is 10,000A. Agency approvals include Std. 248-14 UL Listed, Guide JDYX, File E19180 CSA Certified, Class 1422-01, File 53787.

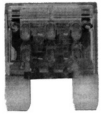


Part #	Amp	Part #	Amp
FNQ-1/10	1/10	FNQ-1 1/4	1 1/4
FNQ-1/8	1/8	FNQ-1 1/2	1 1/2
FNQ-15/100	15/100	FNQ-1 6/10	1 6/10
FNQ-3/16	3/16	FNQ-2	2
FNQ-2/10	2/10	FNQ-2 1/4	2 1/4
FNQ-1/4	1/4	FNQ-2 1/2	2 1/2
FNQ-3	3	FNQ-5 6/10	5 6/10
FNQ-3 2/10	3 2/10	FNQ-6	6
FNQ-4	4	FNQ-6 1/4	6 1/4
FNQ-4 1/2	4 1/2	FNQ-7	7
FNQ-5	5	FNQ-9	9
FNQ-3/10	3/10	FNQ-10	10
FNQ-4/10	4/10	FNQ-12	12
FNQ-1/2	1/2	FNQ-14	14
FNQ-6/10	6/10	FNQ-15	15
FNQ-8/10	8/10	FNQ-20	20
FNQ-1	1	FNQ-25	25
FNQ-1 1/8	1 1/8	FNQ-30	30



## MAX Maxi®-Fuse

Fast acting. Voltage is 32V.



Part #	Amp	Color
MAX-20	20	Yellow
MAX-30	30	Green
MAX-40	40	Orange
MAX-50	50	Red
MAX-60	60	Blue

## KTK Series Fuses

Fast acting. Physical size is 13/32" x 1 1/2" (10.3mm x 38.1mm). Construction is melamine tube; albaloy plated brass endcaps. Voltage rating is 600V AC or less (0-10A are UL Recognized, 12-30A, 600V DC). Interrupting rating is 100,000A. Agency approvals are UL Listed Guide JDYX, File E19180. CSA Certified, File 53787, Class 1422-01, HRC-Misc.



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

## KTK-R Limitron® Fuse

Fast acting, branch circuit fuse Class CC-rejection feature. Physical size is 13/32" x 1 1/2" (10.3mm x 38.1mm). Construction is melamine tube. Ampere ratings are 1/10 - 30 amps. Voltage rating is 600 volts AC (or less). Interrupting rating is 200,000A. Agency approvals are Std. 248-4, Class CC UL Listed, Guide JDDZ, File E4273 CSA Certified, File 53787, Class 1422-02.



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

# Fuses & Circuit Breakers - Fuses



## LP-CC Low Peak® Fuse

Time-delay current limiting, Class CC - rejection type. Physical size is 13/32" x 1 1/2" (10.3mm x 38.1mm). Ampere ratings are 1/2 - 30 amps. Voltage rating is 600 volts AC or less, 300V DC (1/2 - 2 8/10A and 20 - 30A). Interrupting rating is 200,000A RMS Sym., 20,000A DC. Construction is melamine tube. Agency approvals are Std. 248-4, Class CC UL Listed, Guide JDDZ, File E4273 20,000 AIR, 3 - 15A CSA Certified; Class 1422-02, File 53787.



Part #	Amp	Part #	Amp
LP-CC-1/2	1/2	LP-CC-4 1/2	4 1/2
LP-CC-8/10	8/10	LP-CC-5	5
LP-CC-1	1	LP-CC-5 6/10	5 6/10
LP-CC-1 1/8	1 1/8	LP-CC-6	6
LP-CC-1 4/10	1 4/10	LP-CC-6 1/4	6 1/4
LP-CC-1 1/2	1 1/2	LP-CC- 6/10	6/10
LP-CC-1 6/10	1 6/10	LP-CC-7	7
LP-CC-1 8/10	1 8/10	LP-CC-7 1/2	7 1/2
LP-CC-2	2	LP-CC-8	8
LP-CC-2 1/4	2 1/4	LP-CC-9	9
LP-CC-2 1/2	2 1/2	LP-CC-10	10
LP-CC-2 8/10	2 8/10	LP-CC-12	12
LP-CC-3	3	LP-CC-15	15
LP-CC-3 2/10	3 2/10	LP-CC-20	20
LP-CC-3 1/2	3 1/2	LP-CC-25	25
LP-CC-4	4	LP-CC-30	30

## MDA (Axial Leads)

Time-delay. Physical size is 1/4" x 1 1/4" (3AB) (6.3mm x 32mm). Construction is ceramic tube; albaloy plated brass ends caps. Agency approvals are Std. 248-14 UL Listed, Guide JDYX, File E19180, 0-15A. CSA Certification, Class 1422-01, File 53787, 0-15A.

Part #	Amp	Part #	Amp
MDA-2/10	2/10	MDA-4	4
MDA-1/4	1/4	MDA-5	5
MDA-1/2	1/2	MDA-6	6
MDA-3/4	3/4	MDA-7	7
MDA-1	1	MDA-8	8
MDA-1 1/2	1 1/2	MDA-10	10
MDA-2	2	MDA-15	15
MDA-2 1/2	2 1/2	MDA-20	20
MDA-3	3	MDA-30	30



## FRN-R (250V) Fusetron® Fuse

Dual-element, time-delay - ten seconds (minimum) at 500% rated current. Ampere ratings is 1/10 - 600 amps. Voltage rating is 250 volts AC (or less), 125 volts DC. Current limiting RK5 fuse. Interrupting rating is 200,000A RMS sym. (20,000 AIC @ 125V DC). Agency approvals include Std. 248-12, Class RK5, UL Listed, Guide JDDZ, File E4273, CSA Certified, Class 1422-01, File 53787.



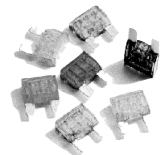
Part #	Amp	Part #	Amp
FRN-R-1/10	1/10	FRN-R-15/100	15/100
FRN-R-1/8	1/8	FRN-R-2/10	2/10
FRN-R-1/4	1/4	FRN-R-12	12
FRN-R-3/10	3/10	FRN-R-15	15
FRN-R-4/10	4/10	FRN-R-17 1/2	17 1/2
FRN-R-1/2	1/2	FRN-R-20	20
FRN-R-6/10	6/10	FRN-R-25	25
FRN-R-8/10	8/10	FRN-R-30	30
FRN-R-1	1	FRN-R-35	35
FRN-R-1 1/8	1 1/8	FRN-R-40	40
FRN-R-1 1/4	1 1/4	FRN-R-45	45
FRN-R-1 4/10	1 4/10	FRN-R-50	50
FRN-R-1 1/2	1 1/2	FRN-R-60	60
FRN-R-1 6/10	1 6/10	FRN-R-70	70
FRN-R-1 8/10	1 8/10	FRN-R-75	75
FRN-R-2	2	FRN-R-80	80
FRN-R-2 1/4	2 1/4	FRN-R-85	85
FRN-R-2 1/2	2 1/2	FRN-R-90	90
FRN-R-2 8/10	2 8/10	FRN-R-100	100
FRN-R-3	3	FRN-R-110	110
FRN-R-3 2/10	3 2/10	FRN-R-125	125
FRN-R-3 1/2	3 1/2	FRN-R-150	150
FRN-R-4	4	FRN-R-175	175
FRN-R-4 1/2	4 1/2	FRN-R-200	200
FRN-R-5	5	FRN-R-225	225
FRN-R-5 6/10	5 6/10	FRN-R-250	250
FRN-R-6	6	FRN-R-300	300
FRN-R-6 1/4	6 1/4	FRN-R-350	350
FRN-R-7	7	FRN-R-400	400
FRN-R-7 1/2	7 1/2	FRN-R-450	450
FRN-R-8	8	FRN-R-500	500
FRN-R-9	9	FRN-R-600	600
FRN-R-10	10	-	-

**WHAT'S THE DIFFERENCE?**

## What's The Difference Between Interrupting Rating & The Fuse's Ampere Rating?

The interrupting rating is the maximum amount of energy the device can safely withstand.

The fuse's ampere rating is the amount of current that the fuse will allow through before beginning to operate. Both ratings are determined through testing.



# Fuses & Circuit Breakers - Fuses



## NON and NOS General Purpose Fuses

General purpose application. Non-current limiting. Ampere ratings are 1/8 - 600 amps. Voltage rating is NON: 250 volts AC; NOS: 600 volts AC (or less). Interrupting rating is 50,000A RMS Sym. (1 - 60A), 10,000A (70 - 600A). Agency approvals are UL Listed - 250V, Class K5 (0 - 60A) Std. 248-9; Class H (70 - 600A Std. 248-6); 600V, Class K5 (15 - 60A) Std. 248-9; Class H (0 - 12A, 70 - 600A) Std. 248-6, Guide JDDZ, File E4274. CSA Class 1421-01, File 53787.



### 250V AC

Part #	Amp	Part #	Amp
NON-1/8	1/8	NON-35	35
NON-1/2	1/2	NON-40	40
NON-3/4	3/4	NON-45	45
NON-8/10	8/10	NON-50	50
NON-1	1	NON-60	60
NON-1 1/4	1 1/4	NON-65	65
NON-1 1/2	1 1/2	NON-70	70
NON-1 6/10	1 6/10	NON-75	75
NON-2	2	NON-80	80
NON-2 1/2	2 1/2	NON-90	90
NON-3	3	NON-100	100
NON-3 2/10	3 2/10	NON-110	110
NON-4	4	NON-125	125
NON-5	5	NON-150	150
NON-6	6	NON-175	175
NON-6 1/4	6 1/4	NON-200	200
NON-7	7	NON-225	225
NON-8	8	NON-250	250
NON-9	9	NON-300	300
NON-10	10	NON-350	350
NON-12	12	NON-400	400
NON-15	15	NON-450	450
NON-20	20	NON-500	500
NON-25	25	NON-600	600
NON-30	30	-	-

### 600V AC



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



## FRS-R (600V) Fusetron® Fuse

Dual-element, time-delay is 10 seconds (minimum) at 500% rated current. Ampere ratings are 1/10 - 600 amps. Voltage rating is 600 volts AC (or less), 300 volts DC. Current limiting RK5 fuse. Interrupting rating is 200,000A RMS Sym. (0 - 100A, 201 - 600A), (20,000 AIC @ 300V DC). Agency approvals are Std. 248-12, Class RK5 UL Listed, Guide JDDZ, File E4273 CSA Certified, Class 1422-02, File 53787.

Part #	Amp	Part #	Amp
FRS-R-1/10	1/10	FRS-R-10	10
FRS-R-1/8	1/8	FRS-R-12	12
FRS-R-15/100	15/100	FRS-R-15	15
FRS-R-1/4	1/4	FRS-R-17 1/2	17 1/2
FRS-R-2/10	2/10	FRS-R-20	20
FRS-R-3/10	3/10	FRS-R-25	25
FRS-R-4/10	4/10	FRS-R-30	30
FRS-R-1/2	1/2	FRS-R-35	35
FRS-R-6/10	6/10	FRS-R-40	40
FRS-R-8/10	8/10	FRS-R-45	45
FRS-R-1	1	FRS-R-50	50
FRS-R-1 1/8	1 1/8	FRS-R-60	60
FRS-R-1 1/4	1 1/4	FRS-R-70	70
FRS-R-1 4/10	1 4/10	FRS-R-75	75
FRS-R-1 1/2	1 1/2	FRS-R-80	80
FRS-R-1 6/10	1 6/10	FRS-R-85	85
FRS-R-1 8/10	1 8/10	FRS-R-90	90
FRS-R-2	2	FRS-R-100	100
FRS-R-2 8/10	2 8/10	FRS-R-110	110
FRS-R-2 1/4	2 1/4	FRS-R-125	125
FRS-R-2 1/2	2 1/2	FRS-R-135	135
FRS-R-3	3	FRS-R-150	150
FRS-R-3 2/10	3 2/10	FRS-R-175	175
FRS-R-3 1/2	3 1/2	FRS-R-200	200
FRS-R-4	4	FRS-R-225	225
FRS-R-4 1/2	4 1/2	FRS-R-250	250
FRS-R-5	5	FRS-R-300	300
FRS-R-6	6	FRS-R-325	325
FRS-R-6 1/4	6 1/4	FRS-R-350	350
FRS-R-7	7	FRS-R-400	400
FRS-R-7 1/2	7 1/2	FRS-R-450	450
FRS-R-8	8	FRS-R-500	500
FRS-R-9	9	FRS-R-600	600

## There Are 3 Basic Types Of Fuses:

- 1. Slow Blow/Time Lag/ Time Delay fuses** - A fuse which will carry an overcurrent of a specified magnitude for a minimum specified time without opening. The specified current and time requirements are defined in the UL/CSA fuse standards.
- 2. Fast acting fuses** - These fuses have no intentional built in slow-blow and are used in circuits without transient inrush currents. This type of fuse is not designed to withstand temporary overload currents associated with some electrical loads.
- 3. Very Fast Acting Fuses** - These fuses will limit both the magnitude and duration of current flow under short circuit conditions. Because of their high current limiting ability, these fuses are frequently used to protect semiconductor circuits.

# Fuses & Circuit Breakers - Fuses



## S500 Series (Axial Leads)

Fast acting, low breaking capacity. Physical size is 0.197" x 0.788" (5mm x 20mm). Construction is glass tube. End caps are nickel or silver plated brass. Agency approvals: Designed to IEC (Pub 127) Sheet II British Standard Approval, SEMKO Approval, VDE Approval, IMQ, UL Recognized, Guide JDYX2, File E75865, 32mA - 6.3A. \*IEC Standard 127 Sheet II does not include ratings above 6.3 amps (part numbers S500-8 and S500-10).



Part #	L2 t	Max. Voltage Drop	Amp
S500-1.25	0.84	200	1.25
S500-1.6	1.6	190	1.6
S500-100	0.003	2100	100
S500-125	0.005	2000	125
S500-160	0.008	1950	160
S500-1	0.60	200	1
S500-2.5	6.1	145	2.5
S500-200	0.016	1600	200
S500-250	0.028	1400	250
S500-2	4.2	160	2
S500-3.15	13	130	3.15
S500-315	0.058	1150	315
S500-32	0.000047	10000	32
S500-400	0.018	950	400
S500-40	0.00011	8000	40
S500-4	22	120	4
S500-500	0.018	220	500
S500-50	0.00020	3200	50
S500-5	42	115	5
S500-6.3	69	110	6.3
S500-630	0.035	220	630
S500-63	0.00057	2500	63
S500-800	0.067	180	800
S500-80	0.0012	2200	80



## S501 Series (Axial Leads)

Fast acting, high breaking capacity. Physical size is 0.197" x 0.788" (5mm x 20mm). Construction is ceramic tube. End caps are nickel or silver plated brass. Voltage rating is 250V AC or less. Interrupting Rating is 1500A @ 250V AC. Agency approvals include UL Recognized, Guide JDYX2, File E75865, 50mA and 315mA - 6.3A, SEMKO Approval 50mA, 200mA and 315mA - 6.3A, IEC 127-SI.



Part #	L2 t	Max. Voltage Drop	Amp
S501-1.25	0.9	200	1.25
S501-315	0.010	1400	315
S501-400	0.018	1200	400
S501-500	0.038	1050	500
S501-630	0.064	1200	630
S501-50	0.0017	9000	50
S501-5	25	155	5
S501-6.3	48	150	6.3
S501-63	0.0005	3300	63
S501-800	0.097	490	800
S501-80	0.0011	2600	80
S501-1.6	1.9	180	1.6
S501-100	0.0018	2300	100
S501-125	0.0037	1900	125
S501-160	0.008	1600	160
S501-1	0.480	230	1
S501-2.5	3.9	190	2.5
S501-200	0.020	1350	200
S501-250	0.027	1300	250
S501-2	2.0	205	2
S501-3.15	8.1	160	3.15

## S506 Series (Axial Leads)

Time delay, low breaking capacity. Physical size is 0.197" x 0.788" (5mm x 20mm). Construction is glass tube. End caps are nickel or silver plated brass. Voltage rating is 250V AC or less. Interrupting rating is 35A @ 250V AC or 10 x rated current. Agency approvals: Designed to IEC (Pub 127) Sheet III British Standard Approval, SEMKO Approval, VDE Approval, IMQ, UL Recognized, Guide JDYX2, File E75865, 32mA - 6.3A.



Part #	L2 t	Max. Voltage Drop	Amp
S506-100	0.022	490	100
S506-125	0.034	390	125
S506-160	0.052	320	160
S506-1	3.6	85	1
S506-2.5	34	80	2.5
S506-200	0.078	340	200
S506-250	0.17	270	250
S506-2	17	80	2
S506-3.15	56	75	3.15
S506-315	0.41	250	315
S506-32	0.0014	1050	32
S506-400	0.61	210	400
S506-40	0.0034	920	40
S506-4	91	75	4
S506-500	0.75	168	500
S506-50	0.006	800	50
S506-5	133	75	5
S506-6.3	270	65	6.3
S506-630	1.3	158	630
S506-63	0.012	760	63
S506-800	3.1	132	800
S506-80	0.015	580	80

### To PROPERLY SELECT A FUSE THE FOLLOWINGS MUST BE CONSIDERED:

- Normal operating current (The current rating of a fuse is typically derated 25% for operation at 25°C to avoid nuisance blowing. For example, a fuse with a current rating of 10A is not usually recommended for operation at more than 7.5A in a 25°C ambient.)
- Overload current and time interval in which the fuse must open.
- Application voltage (AC or DC Voltage). Inrush currents, surge currents, pulses, start-up currents characteristics.
- Ambient temperature.
- Applicable standards agency required, such as UL, CSA, VDE.

**Still Unsure?**  
Give us a call -  
we have representatives  
on hand to assist you!



# Fuses & Circuit Breakers - Fuses



## GMA (Axial Leads)

Fast acting. Physical size is 0.197" x 0.788" (5mm x 20mm). Glass tube construction. End caps are nickel or silver plated brass. Agency approvals include Std. 248-14, UL Listed Guide JDYX2, File E75865, 7-15A, CSA Certified, Class 1422-01, File E75865, 0-6A.



Part #	Rated Voltage	Breaking Capacity	Amp
GMA-1.25A	250	100A/250V, 10kA/125V, p.f. = 0.7 - 0.8	1.25
GMA-1.2A	250	100A/250V, 10kA/125V, p.f. = 0.7 - 0.8	1.2
GMA-1.5A	250	100A/250V, 10kA/125V, p.f. = 0.7 - 0.8	1.5
GMA-1.6A	250	100A/250V, 10kA/125V, p.f. = 0.7 - 0.8	1.6
GMA-100mA	250	35A/250V, 10kA/125V, p.f. = 0.7 - 0.8	100
GMA-10A	125	150A/125V, p.f. = 1.0	10
GMA-125mA	250	35A/250V, 10kA/125V, p.f. = 0.7 - 0.8	125
GMA-15A	125	150A/125V, p.f. = 1.0	15
GMA-1A	250	35A/250V, 10kA/125V, p.f. = 0.7 - 0.8	1
GMA-2.5A	250	100A/250V, 10kA/125V, p.f. = 0.7 - 0.8	2.5
GMA-200mA	250	35A/250V, 10kA/125V, p.f. = 0.7 - 0.8	200
GMA-250mA	250	35A/250V, 10kA/125V, p.f. = 0.7 - 0.8	250
GMA-2A	250	100A/250V, 10kA/125V, p.f. = 0.7 - 0.8	2
GMA-3.15A	125	10kA/125V, p.f. = 0.7 - 0.8	3.15
GMA-3.5A	125	10kA/125V, p.f. = 0.7 - 0.8	3.5
GMA-300mA	250	35A/250V, 10kA/125V, p.f. = 0.7 - 0.8	300
GMA-315mA	250	35A/250V, 10kA/125V, p.f. = 0.7 - 0.8	315
GMA-3A	250	100A/250V, 10kA/125V, p.f. = 0.7 - 0.8	3
GMA-4A	125	10kA/125V, p.f. = 0.7 - 0.8	4
GMA-500mA	250	35A/250V, 10kA/125V, p.f. = 0.7 - 0.8	500
GMA-5A	125	10kA/125V, p.f. = 0.7 - 0.8	5
GMA-600mA	250	35A/250V, 10kA/125V, p.f. = 0.7 - 0.8	600
GMA-63mA	250	35A/250V, 10kA/125V, p.f. = 0.7 - 0.8	63
GMA-6A	125	10kA/125V, p.f. = 0.7 - 0.8	6
GMA-750mA	250	35A/250V, 10kA/125V, p.f. = 0.7 - 0.8	750
GMA-7A	125	200A/125V, p.f. = 1.0	7
GMA-800mA	250	35A/250V, 10kA/125V, p.f. = 0.7 - 0.8	800
GMA-8A	125	200A/125V, p.f. = 1.0	8



## GMC (Axial Leads)






Medium time-delay. Physical size is 0.197" x 0.788" (5mm x 20mm). Construction is glass tube end caps; nickel or silver plated brass. Agency approvals are Std. 248-14, UL Listed guide JDYX, File E75865, 0-63A. UL Recognized, guide JDYX2, File E75865, 7-10A. CSA Certified, Class 1422-01, File 65063, 0-6.3A.



Part #	Amp	Part #	Amp
GMC-1.25A	1.25	GMC-3A	3
GMC-1.5A	1.5	GMC-400mA	400
GMC-1.6A	1.6	GMC-4A	4
GMC-100mA	100	GMC-500mA	500
GMC-10A	10	GMC-5A	5
GMC-125mA	125	GMC-6.3A	6.3
GMC-150mA	150	GMC-600mA	600
GMC-1A	1	GMC-630mA	630
GMC-2.5A	2.5	GMC-63mA	63
GMC-200mA	200	GMC-6A	6
GMC-250mA	250	GMC-750mA	750
GMC-2A	2	GMC-7A	7
GMC-3.15A	3.15	GMC-800mA	800
GMC-3.5A	3.5	GMC-80mA	80
GMC-300mA	300	GMC-8A	8
GMC-315mA	315	-	-

**WHY IS THE INTERRUPTING RATING IMPORTANT?**

The interrupting rating is important because it is a safety rating. If a device with a low interrupting rating is used in circuit that has a higher available fault current (the amount of energy that is potentially available if a fault were to occur), the device could potentially fail (rupture or explode) as it attempts to clear the fault, causing a safety hazard.

# Fuses & Circuit Breakers - Fuses



## AGC Series Fast Acting Fuses

Physical size is 1/4" x 1 1/4" (3AG) (6.3mm x 32mm). Construction is glass tube, albaloy plated, brass end caps. Agency approvals include 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. <sup>1</sup>Interrupting ratings were measured at 70% - 80% power factor on AC, and at a time constant described in UL 198L. <sup>2</sup>DC ratings are self certified. Add -V to part number for axial leads, e.g. AGC-V-1/20



Part #	Rated Voltage	Interrupting Rating	Amp
AGC-1	250V/250V	35A/35A	1
AGC-1 1/2	250V/250V	100A/100A	1 1/2
AGC-1 1/4	250V/250V	100A/100A	1 1/4
AGC-1/10	250V/250V	35A/35A	1/10
AGC-1/16	250V/250V	35A/35A	1/16
AGC-1/2	250V/250V	35A/35A	1/2
AGC-1/20	250V/250V	35A/35A	1/20
AGC-1/4	250V/250V	35A/35A	1/4
AGC-1/8	250V/250V	35A/35A	1/8
AGC-10	250V/250V	200A/200A	10
AGC-15	32V/-	1000A/-	15
AGC-2	250V/250V	100A/100A	2
AGC-2 1/2	250V/250V	100A/100A	2 1/2
AGC-2 1/4	250V/250V	100A/100A	2 1/4
AGC-2/10	250V/250V	35A/35A	2/10
AGC-20	32V/-	1000A/-	20
AGC-25	32V/-	1000A/-	25
AGC-3	250V/250V	100A/100A	3
AGC-3/10	250V/250V	35A/35A	3/10
AGC-3/16	250V/250V	35A/35A	3/16
AGC-3/4	250V/250V	35A/35A	3/4
AGC-3/8	250V/250V	35A/35A	3/8
AGC-30	32V/-	1000A/-	30
AGC-45/100	250V/250V	35A/35A	45/100
AGC-5	250V/250V	200A/200A	5
AGC-6	250V/250V	200A/200A	6
AGC-7	250V/250V	200A/200A	7
AGC-8	250V/250V	200A/200A	8
AGC-9	250V/250V	200A/200A	9

## ATM Mini®-Fuse

Fast acting. Voltage is 32V.



Part #	Amp	Color
ATM-10	10	Red
ATM-15	15	Lt. Blue
ATM-2	2	Gray
ATM-20	20	Yellow
ATM-25	25	Clear
ATM-3	3	Violet
ATM-30	30	Green
ATM-4	4	Pink
ATM-5	5	Tan
ATM-7 1/2	7 1/2	Brown



## ABC Series Fast-Acting Fuses

Physical size is 1/4" x 1 1/4" (3AB) (6.3 mm x 32 mm). Construction is ceramic tube. Agency approval include 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, Class 1422-30, File 53787, 20-25A. <sup>1</sup>Interrupting ratings were measured at 70% - 80% power factor on AC and at a time constant described in UL 198L. <sup>2</sup> DC ratings are self certified. Add -V to part number for axial leads, e.g. ABC-V-1/4.



Part #	Rated Voltage	Interrupting Rating	Amp
ABC-1	250V/250V	35A/35A	1
ABC-1 1/2	250V/-	100A/-	1 1/2
ABC-1/2	250V/250V	35A/35A	1/2
ABC-1/4	250V/250V	35A/35A	1/4
ABC-10	250V/250V	200A/200A	10
ABC-15	250V/250V	750A/750A	15
ABC-2	250V/-	100A/-	2
ABC-2 1/2	250V/-	100A/-	2 1/2
ABC-20	250V/-	400A/-	20
ABC-25	125V/-	1000A/-	25
ABC-3/4	250V/250V	35A/35A	3/4
ABC-30	125V/-	1000A/-	30
ABC-4	250V/250V	200A/200A	4
ABC-5	250V/250V	200A/200A	5
ABC-6	250V/-	200A/-	6
ABC-7	250V/-	200A/-	7
ABC-8	250V/-	200A/-	8

## ATC® Blade-Type Fuse

Fast acting. Voltage rating is 32V. Agency approvals include UL Recognized, (3-40A) (Guide JFHR2, File E56412).



Part #	Color	Amp
ATC-1	Black	1
ATC-10	Red	10
ATC-15	Blue	15
ATC-2	Gray	2
ATC-20	Yellow	20
ATC-25	Clear	25
ATC-3	Violet	3
ATC-30	Green	30
ATC-4	Pink	4
ATC-40	Amber	40
ATC-5	Tan	5
ATC-7 1/2	Brown	7 1/2



# Fuses & Circuit Breakers - Fuses



## MDL (Axial Leads)

Time delay fuses. Physical size is 1/4" x 1 1/4" (3AG) (6.3mm x 32mm). Construction is glass tube, albaloy plated brass end caps. Agency approvals: Std. 248-14 UL Listed, Guide JDYX, File E19180, 1/16 - 8A; CSA Certification Class 1422-01, File 53787, 1/16 - 8A; UL Recognized, Guide JDYX2, File E19180, 8.1 - 30A. <sup>1</sup>Interrupting ratings were measured at 70% - 80% power factor on AC, and at a time constant described in UL 198L. <sup>2</sup>DC ratings are self certified. Add -V to part number for axial leads, e.g. MDL-V-1/16.



Part #	Rated Voltage	Interrupting Rating	Amp
MDL-1	250V/250V	35A/35A	1
MDL-1 1/2	250V/-	100A/-	1 1/2
MDL-1 1/4	250V/-	100A/-	1 1/4
MDL-1/10	250V/250V	35A/35A	1/10
MDL-1/16	250V/250V	35A/35A	1/16
MDL-1/2	250V/250V	35A/35A	1/2
MDL-1/4	250V/250V	35A/35A	1/4
MDL-1/8	250V/250V	35A/35A	1/8
MDL-10	32V/-	1000A/-	10
MDL-15	32V/-	1000A/-	15
MDL-2	250V/-	100A/-	2
MDL-2 1/2	250V/-	100A/-	2 1/2
MDL-2/10	250V/250V	35A/35A	2/10
MDL-20	32V/-	1000A/-	20
MDL-25	32V/-	1000A/-	25
MDL-3	250V/250V	100A/100A	3
MDL-3/10	250V/250V	35A/35A	3/10
MDL-3/16	250V/-	35A/-	3/16
MDL-3/4	250V/250V	35A/35A	3/4
MDL-5	250V/250V	35A/35A	5
MDL-7	250V/-	200A/-	7
MDL-8	250V/250V	200A/200A	8
MDL-4	250V/-	200A/-	4
MDL-9	32V/-	1000A/-	9
MDL-30	32V/-	1000A/-	30
MDL-3/8	250V/250V	35A/35A	3/8
MDL-6	250V/-	200A/-	6

## Thermal Fuses

Maximum current rating is 15 amps. Typical opening temperature tolerance is 0°C, -5°C. 18 gauge solid copper wire. Full 1-1/3" leads to fit all replacement configurations. All types meet the requirements of Underwriters Laboratories Specifications and CSA. Each device comes packaged with 2 crimp splices for solderless connection. UL file no. E49429. CSA file no. LR43279.

Part #	Max. Temp. For Opening
NTE8070	72°C (162°F)
NTE8076	77°C (171°F)
NTE8081	84°C (184°F)
NTE8085	87°C (189°F)
NTE8090	93°C (200°F)
NTE8096	98°C (209°F)
NTE8098	100°C (212°F)
NTE8103	104°C (220°F)
NTE8108	109°C (229°F)
NTE8115	117°C (243°F)
NTE8118	121°C (250°F)
NTE8125	128°C (263°F)
NTE8139	141°C (286°F)
NTE8149	152°C (306°F)
NTE8167	169°C (336°F)
NTE8181	184°C (364°F)
NTE8213	216°C (421°F)
NTE8226	228°C (443°F)
NTE8242	240°C (464°F)



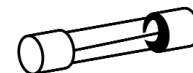
## European Fuses GMA Type

Dimensions are 5mm OD x 20mm length. Replacement fuse for foreign equipment. Voltage rating is 250V AC

Part #	Current
EF1005	.5A
EF1010	1.0A
EF1015	1.5A
EF1020	2.0A
EF1025	2.5A
EF1030	3.0A
EF1040	4.0A

## Fuses

Dimensions are 1/4" x 1 1/4". Voltage rating is 250V AC. Grade A. UL Listed up to 7.0 amps.



Part #	Current (Amps)
3AG1/4	1/4
3AG1/2	1/2
3AG3/4	3/4
3AG1	1
3AG1-1/2	1 1/2
3AG2	2
3AG4	4
3AG5	5
3AG7-1/2	7 1/2
3AG15	15
3AG20	20
3AG25	25
3AG30	30



# Fuses & Circuit Breakers - Fuses



## Gold AGU/5AG Type Fuses

For HI-FI Auto high current fuses. Custom installation. Dimensions are 13/32" D x 1 1/2" L. 32 volts.



Part #	Current
8615	15A
8620	20A
8625	25A
8630	30A
8635	35A
8640	40A
8650	50A
8660	60A

## Blade Type Terminal Fuses

Voltage rating is 32V. Suitable for American cars.

Part #	Current	Color
PAP3	3	Purple
PAP5	5	Tan
PAP7.5	7.5	Brown
PAP10	10	Red
PAP15	15	Blue
PAP20	20	Yellow
PAP25	25	Clear
PAP30	30	Green



## SFE Series Auto Fuses

Voltage rating is 32V.

Part #	Current	Size
SFE4A	4A	1/4" x 5/8"
SFE6A	6A	1/4" x 3/4"
SFE7.5A	7 1/2A	1/4" x 7/8"
SFE9A	9A	1/4" x 7/8"
SFE14A	14A	1/4" x 1 1/16"
SFE20A	20A	1/4" x 1 1/4"
SFE30A	30A	1/4" x 1 7/16"

## Slo-Blo Fuses

Dimensions are 1/4" x 1 1/4". Voltage rating is 250V AC. Grade A UL Listed up to 7.0 amps.

Part #	Current
SB1	1A
SB2	2A
SB3	3A
SB5	5A
SB7-1/2	7 1/2A
SB10	10A

# Fuses & Circuit Breakers - Fuseholders



## HKP-HH Fuseholders

Fuseholders with 1/4" quick-connect.



Part #	Amp	Volts
HKP-HH	15	250
HRK	15	32

## HKP Series Standard Fuseholders

Panel mounted for 1/4" x 1 1/4" fuses. Terminals: bayonet-type knob. Vibration resistant. For panels up to 5/16" (7.9mm) thick. Agency approvals are UL Recognized - Guide IZLT2, File E14853 and CSA Certified - Class 6225-01, File 47235.



Part # HKP

## HR Fuseholders

In-line fuseholders for SFE and 1/4" x various length fuses. Voltage rating is 32V, 20A. No agency listings. Also available as in-line fuseholder only with lead wire contacts, HRJ-LES-fuse. Includes fuse SFE-20. Wire is 19" of #14.



Part # HRJ



## Inline Fuseholder

Part #	Description
55-820-0	45cm of 12 AWG red wire. Bulk
55-821-0	For 3AG fuses 19cm red 18 AWG wire. Bulk

## Fuseholders - 10A @ 250VAC



Part #	Description
55-800-0	Bayonet Style Fuse Holder for 3AG (1/4" x 1 1/4") Fuses
55-801-0	Pop-Out Style Fuseholder for 3AG (1/4" x 1 1/4") Fuses
55-802-0	Screw Type Fuseholder for 3AG (1/4" x 1 1/4") Fuses



## Fuse Holder (Screw Type Cap)

Part #	Description
526	For 3AG type fuses (1/4" x 1 1/4")
525	For GMA type fuses (5mm x 20mm)

# Fuses & Circuit Breakers - Fuseholders



## Heavy Duty In-Line Fuse Holder

10A @ 250V AC

Part #	Description
506	For 3AG type fuse (1/4" x 1 1/4")
507	For GMA type fuse (5.0mm x 20mm)

## Screw Cap Fuse Holder

Rating is 15A @ 250VAC. Holds 1/4" x 1 1/4" fuses. Can be used in panels up to 1/4" thick. Mounts in 19/32" hole. Overall length of holder 2", behind panel 1 3/8".

Part # FH55

## In-Line Fuse Holder

Hold 1/4" x 1 1/4" fuses. Spring loaded, twist lock design. Plastic housing provides full insulation. 10" heavy duty #18 gauge stranded insulated wire at each end.

Part # FH65

## In-Line Fuse Holder

For blade type fuses. Material is Bakelite. Maximum rating is 250V AC/30A. Color is black.

Part # FH101



## Mini Blade Fuses & Fuse Holders

Provides reliable vehicle circuit protection in a compact, miniature size. Industry standard color coding to indicate AMP rating. Change suffix BP to C for 100 Pack.

Part #	Amp	Color
103-BP	3	Violet
104-BP	4	Pink
105-BP	5	Tan
107-BP	7.5	Brown
110-BP	10	Red
115-BP	15	Blue
120-BP	20	Yellow
125-BP	25	Clear
130-BP	30	Green

## ATO Blade Fuses & Fuse Holders

A blade type fuse whose basic components are a plastic housing and two blade terminals with fuse element fabricated from a single piece of metal. Industry standard color coding to indicate AMP rating. Change suffix BP to C for 100 pack.

Part #	Amp	Color
960-BP	3	Violet
962-BP	5	Tan
963-BP	7.5	Brown
964-BP	10	Red
965-BP	15	Blue
966-BP	20	Yellow
967-BP	25	Clear
968-BP	30	Green

## Assortment

Part #	Description
983-BP	5-20 AMP
984-BP	3-30 AMP
985-BP	3-10 AMP
986-BP	15-30 AMP

## ATO Fuse Kit

Contains 100 PCS

Part # 6SF-E

## Big Blade Fuses & Fuse Holders

Big blade fuse kit-contains 15 PCS. 1-220, 3-230, 3-240, 3-250, 3-260, 1-270, 1-280.

Part # 6BF-E

## Glass Fuses & Fuse Holders

Nylon In-Line fuse holder with fuse. Easy to install-no soldering & no spring to wear out. Change suffix PK to C for 100 Pack.

Part #	PC(s)	GA/AMP
900-11	1	14/20
900-PK	10	14/20
901-11	1	14/30
901-PK	10	14/30

12 GA 30 AMP In-Line fuse holder with universal nylon body cut & splice into any circuit.

Part #	PC(s)
904-BP	1
904-PK	10
904-C	100

16 GA 15 AMP In-Line fuse holder with universal nylon body cut & splice into any circuit.

Part #	PC(s)
906-BP	1
906-PK	10
906-C	100

Panel mount fuse holder for 6.35 x 32mm fuses. Screw knob rated current 10A 250V. 1 PC.

Part # 995-11



# Fuses & Circuit Breakers - Fuseblocks



## 4421 Series Fuseblocks

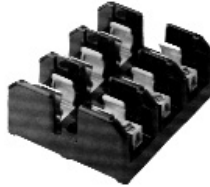
Single pole fuseblocks for 13/32" x 1 1/2" (10.3mm x 38.1mm) fuses. Mounting screw hole diameter is 0.147" (3.7mm). Counter sink, 0.312" (7.9mm). Maximum mounting screw No. 6. Solder terminals. Base width 5/8" (15.9mm).



Part # 4421

## Class J Fuseblocks - J600 Series

For use with Class J fuses. Construction is thermo-plastic, UL flammability: 94VO. Voltage rating is 1/2 - 600 amps, 600 volts AC. Withstand rating is 200,000A RMS Sym. Agency approvals are UL Listed UL512, Guide IZLT, File E14853. CSA Certified, Class 6225-01, File 47235. \*Clip reinforcing springs are standard on fuseblocks rated 100A and above. Available on 30A and 60A blocks by adding the letter "R" to the end of the part number.



\*\*Copper only connections available by changing "CR" suffix to "COR".

Part #	Amp	Part #	Amp
J60030-1C	1/2-30	J60060-1CR	31-60**
J60030-1CR	1/2-30**	J60060-2C	31-60
J60030-1P	1/2-30*	J60060-2CR	31-60**
J60030-1S	1/2-30*	J60060-3C	31-60
J60030-2C	1/2-30	J60060-3CR	31-60**
J60030-2CR	1/2-30**	J60100-3CR	61-100**
J60030-2P	1/2-30*	J60200-1CR	101-200
J60030-2S	1/2-30*	J60200-3CR	101-200
J60030-3C	1/2-30	J60400-3CR	201-400
J60030-3CR	1/2-30**	J60600-1CR	401-600
J60030-3P	1/2-30*	J60600-3CR	401-600
J60030-3S	1/2-30*	J60400-1CR	201-400
J60060-1C	31-60	-	-

## Class T Fuseblocks - 300V

For use with Class T fuses. Construction is glass polyester, phenolic on 600A. UL flammability is 94VO. Rating is 1/2 - 600 amps. Withstand rating is 200,000A RMS Sym. Agency approvals are UL Listed UL512, Guide IZLT, File E14853 CSA Certified, Class 6225-01, File 47235.



Part #	Amp	Part #	Amp
1B0089	101-200	T60030-1CR	1/2-30
T30030-2CR	1/2-30	T60030-3CR	1/2-30
T30030-2SR	1/2-30	T60060-2CR	31-60
T30030-3CR	1/2-30	T60060-3CR	31-60
T30030-3SR	1/2-30	T60060-1CR	31-60
T30030-4CR	1/2-30	T60060-1SR	31-60
T30030-4SR	1/2-30	T60400-1C	201-400
T30060-2CR	31-60	T60030-2SR	1/2-30
T30060-2SR	31-60	T60030-3SR	1/2-30
T30060-3CR	31-60	T60060-3SR	31-60
T30060-3SR	31-60	T60600-1C	401-600
T30060-4CR	31-60	T60030-1SR	1/2-30
T30060-4SR	31-60	T60100-1C	61-100
T30100-1C	61-100	T60060-2SR	31-60
T30100-2C	61-100	T60200-1C	101-200
T30100-3C	61-100	T60100-3C	61-100
T30200-1C	101-200	T60030-2CR	1/2-30
T30200-2C	101-200	T60100-2C	61-100
T30200-3C	101-200	-	-



## Fuseblocks for Class R 250V Fuses

Availability: SR (screw type), PR (screw with pres. plate), CR (box lug), COR (box lug with clip CU only), QR (1/4" quick-connect).

Part #	Amps	Poles	Availability
R25030-1	1/10 to 30	1	SR, PR, CR, COR, QR
R25030-2	1/10 to 30	2	SR, PR, CR, COR, QR
R25030-3	1/10 to 30	3	SR, PR, CR, COR, QR
R25060-1	31 to 60	1	SR, CR, COR
R25060-2	31 to 60	2	SR, CR, COR
R25060-3	1 to 60	3	SR, CR, COR
R25100-1	70 to 100	1	CR, COR
R25100-2	70 to 100	2	CR, COR
R25100-3	70 to 100	3	CR, COR
R25200-1	To 200	1	CR
R25200-3	To 200	3	CR
R25400-1	To 400	1	CR
R25400-3	To 400	3	CR
R25600-1	To 600	1	CR
R25600-3	To 600	3	CR



## Din Rail Mounted Fuse Block

For 1 1/2" x 13/32", 10 x 38mm fuses. Rated 600V, 32 amp, UL approved.



Part #	No. of Poles	Indicator Type
2541000	1	Non-Indicating
2543000	2	Non-Indicating
2544000	3	Non-Indicating
2541100	1	With Indicator
2543100	2	With LED fuse blown indication
2544100	3	With Indicator



## Fuse Block for 5.0 x 20mm Fuses

Electrical rated for currents up to 6.3A. Clips/terminals are nickel-plated or tinned spring Brass ear type. Base is Phenolic laminate or glass fiber.

Part # FH503, FH501

## Fuse Block for 3AG Fuses

Electrical rated for currents up to 10A. Clip/terminals are nickel-plated or tinned spring Brass ear type. Base is Phenolic laminate or glass fiber.

Part # FH551



## Fuse Blocks

Single fuse block with 30 AMP rating for AGC and SEF glass type fuses. Each fuse holder has two .250" tabs for quick connection.

Part # 940-11

4 way fuse block with 30 AMP rating for AGC and SFE glass type fuses. Each fuse holder has two .250" tabs for quick connection.

Part # 941-11

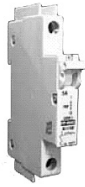


# Fuses & Circuit Breakers - Circuit Breakers



## DIN Rail Mounted Circuit Breakers

Three series offered : UL 1077 for supplemental circuit protection, AC circuits (UL recognized); UL 489 for branch circuit protection, AC circuits (UL recognized and UL Listed); UL 489A for branch circuit protection in DC circuits (UL recognized and UL Listed). DIN rail mounted. Compact 13mm width. Up to three poles. 100% rating capability. Hydraulic-magnetic technology. (X) = amperage. Example 1 for 1 amp, 15 for 15 amp, etc. (Y) = number of poles.



Part #	Type	No. Poles	Max. Voltage	Max. Amperage
C(X)A(Y)P	UL 1077	3	480	50
C(X)A(Y)P-489	UK 489	2	240	25
C(X)A(Y)P-80VDC	UL 489A	1	80	50



## Circuit Breakers

125VAC 50VDC

Part #	Description
47-503-0	3A
47-504-0	4A
47-505-0	5A
47-510-0	10A
47-515-0	15A
47-520-0	20A
47-525-0	25A
47-530-0	30A



## R58 Series

Thermal circuit breaker. .250" (6.35mm) quick connect terminals. Cannot be manually tripped. Visual trip indicator. Push button to reset breaker. Maximum operating voltages are 50 VDC; 250 VAC @50/60 Hz.



Part #	Current Rating	Typical Resistance
R58-10A	10.0	0.014
R58-12A	12.0	0.010
R58-15A	15.0	0.010
R58-1A	1.0	1.35
R58-20A	20.0	0.006
R58-25A	25.0	0.005
R58-2A	2.0	0.32
R58-30A	30.0	0.004
R58-35A	35.0	0.004
R58-3A	3.0	0.18
R58-4A	4.0	0.10
R58-5A	5.0	0.026
R58-6A	6.0	0.026
R58-7A	7.0	0.020
R58-8A	8.0	0.020



## R59 Series Thermal Circuit Breaker, Fuse Holder Type

Replaces slow blow glass cartridge fuses. .250" (6.35mm) Quick connect terminals. Snap-in mounting. Visual trip indicator. Push button to reset breaker.



Part #	Current Rating (Amps)	Typical Resistance (Ohms)
R59-0.25A	0.25	14.0
R59-0.5A	0.50	3.55
R59-1A	1.0	0.89
R59-2A	2.0	0.17
R59-3A	3.0	0.069
R59-4A	4.0	0.043
R59-5A	5.0	0.030
R59-6A	6.0	0.026
R59-7A	7.0	0.017
R59-8A	8.0	0.016
R59-10A	10.0	0.011
R59-12A	12.0	0.009
R59-15A	15.0	0.007
R59-20A	20.0	0.007



## Snap-In Circuit Breaker

Easy to install. Where you use glass cartridge fuseholders, this series can replace them without panel redesign or repunching. Can be prewired and then snapped securely into place from the front.

Part #	Current Amps	Resistance (ohms)
B8003	3	.069
B8005	5	.030
B8007	7	.017
B8010	10	.011
B8015	15	.007

## Miniature Push Button Circuit Breaker

Standard rating is 3-20 amp. Input power is 125VAC / 250VAC. Dielectric strength is 1500 VAC / 1 minute.

Part #	Amps	Max. Resistance (ohms)
30-6003	3	0.120
30-6004	4	0.120
30-6005	5	0.100
30-6015	15	0.008
30-6018	18	0.007
30-6020	20	0.007



