

SUPPRESSION CAPACITORS • SURFACE MOUNT FUSES

MKP 338 SERIES INTERFERENCE SUPPRESSION X2 CAPACITORS (CONT.)

Mfg. Part No.	Cap. (µF)	Lead Spacing	Lead Length	Stock No.	Price Each			
					1-9	10-99	100-499	500-999
● 2222 338 22154	0.15	15mm	5mm	96B2300	0.43	0.37	0.25	0.21
● 2222 338 24152	0.0015	7.5mm	25mm	96B2320	0.31	0.27	0.18	0.15
● 2222 338 24222	0.0022	7.5mm	25mm	96B2324	0.33	0.29	0.19	0.16
● 2222 338 24332	0.0033	7.5mm	25mm	18M4056	0.36	0.31	0.21	0.17
● 2222 338 24103	0.01	7.5mm	25mm	96B2317	0.41	0.36	0.24	0.20
● 2222 338 24223	0.022	7.5mm	25mm	96B2325	0.42	0.37	0.25	0.21
● 2222 338 24333	0.033	7.5mm	25mm	96B2329	0.36	0.32	0.21	0.18
● 2222 338 24473	0.047	7.5mm	25mm	96B2333	0.37	0.32	0.22	0.18
● 2222 338 24104	0.1	10mm	25mm	96B2318	0.41	0.36	0.24	0.20
● 2222 338 24224	0.22	15mm	25mm	18M4055	0.55	0.48	0.32	0.26
● 2222 338 24334	0.33	15mm	25mm	18M4057	0.62	0.54	0.36	0.30
● 2222 338 24105	1	22.5mm	25mm	18M4053	1.63	1.42	0.95	0.79
● 2222 338 24155	1.5	27.5mm	25mm	18M4054	2.15	1.87	1.25	1.04
● 2222 338 24335	3.3	27.5mm	25mm	96B2331	3.86	3.36	2.24	1.85

ON TAPE

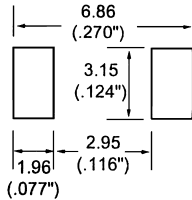
Mfg. Part No.	Cap. (µF)	Lead Spacing	Stock No.	Price Each		
				1-9	10-99	100-499
● 2222 338 26152	0.0015	7.5mm	96B2341	0.34	0.29	0.20
● 2222 338 26332	0.0033	7.5mm	96B2347	0.36	0.31	0.21
● 2222 338 26682	0.0068	7.5mm	96B2351	0.43	0.38	0.25
● 2222 338 26103	0.01	7.5mm	96B2339	0.45	0.40	0.27
● 2222 338 26153	0.015	7.5mm	96B2342	0.46	0.40	0.27
● 2222 338 26223	0.022	7.5mm	96B2345	0.46	0.40	0.27
● 2222 338 26333	0.033	7.5mm	96B2348	0.40	0.35	0.23
● 2222 338 26473	0.047	7.5mm	96B2350	0.41	0.35	0.24
● 2222 338 26683	0.068	7.5mm	96B2352	0.42	0.37	0.25
● 2222 338 26154	0.15	7.5mm	96B2343	0.47	0.41	0.27
● 2222 338 26334	0.33	7.5mm	18M4058	0.68	0.59	0.40

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451 SERIES NANO² SMF VERY FAST-ACTING FUSES



Subminiature surface mount fuses. Blow time: 4 hours min. @ 100%; 5 seconds max. @ 200% (1/10-10A); 20 seconds max. @ 200% (15A). Ceramic body with tin-lead alloy or silver-plated termination caps. Operating temperature: -55°C to 125°C. Soldering parameters: Wave Solder—260°C, 10 seconds maximum; Reflow Solder—260°C, 30 seconds maximum. Solderability: MIL-STD-202, Method 208. RoHS compliant, UL listed (62mA to 5A), UL recognized (> 5A), CSA certified. Packaging specifications: 12mm tape and reel; 1000 pieces per reel, add packaging suffix NR; 5000 per reel, add packaging suffix NR.



Recommended pad layout

ELECTRICAL CHARACTERISTICS

% of Ampere Rating	Ampere Rating	Opening Time
100%	1/16-15	4 hours Min.
200%	1/16-10	5 seconds Max.
	12-15	20 seconds Max.

Mfg. Part No.	Current Rating	Voltage Rating (V)	Tape Cut			Tape & Reel	
			Stock No.	1-9	100-499	Stock No.	Price Each
● R451.062L	62mA	125	12J2822	2.03	1.82	53K9038	1.44
● R451.080L	80mA	125	12J2823	2.03	1.82	53K9039	1.44
● R451.100L	100mA	125	12J2824	2.03	1.82	53K9040	1.44
● R451.125L	125mA	125	12J2825	2.03	1.82	53K9041	1.44
● R451.160L	160mA	125	12J2826	2.01	1.80	53K9042	1.43
● R451.200L	200mA	125	12J2827	2.01	1.80	53K9043	1.43
● R451.250L	250mA	125	12J2828	0.90	0.80	53K9044	0.64
● R451.315L	315mA	125	12J2829	0.90	0.80	53K9045	0.64
● R451.375L	375mA	125	12J2830	0.90	0.80	53K9046	0.64
● R451.400L	400mA	125	12J2831	0.90	0.80	53K9047	0.64
● R451.500L	500mA	125	12J2832	0.90	0.80	53K9048	0.64
● R451.630L	630mA	125	12J2833	0.90	0.80	53K9049	0.64
● R451.750L	750mA	125	12J2834	0.90	0.80	53K9050	0.64
● R451.800L	800mA	125	12J2835	0.90	0.80	53K9051	0.64
● R451001.L	1A	125	12J2836	0.90	0.80	53K9052	0.64
● R4511.25L	1.25A	125	12J2869	0.90	0.80	53K9068	0.64
● R45101.5L	1.5A	125	12J2847	0.90	0.80	53K9060	0.64
● R45101.6L	1.6A	125	12J2848	0.90	0.80	53K9061	0.64

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451 SERIES NANO² SMF VERY FAST-ACTING FUSES (CONT.)

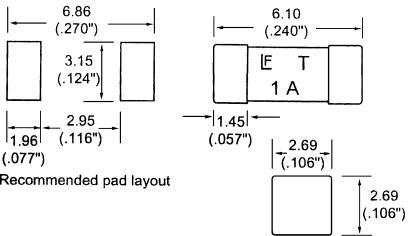
Mfg. Part No.	Current Rating	Voltage Rating (V)	Tape Cut			Tape & Reel	
			Stock No.	1-9	100-499	Stock No.	Price Each
● R451002.L	2A	125	12J2838	0.90	0.80	53K9053	0.64
● R45102.5L	2.5A	125	12J2855	0.90	0.80	53K9065	0.64
● R451003.L	3A	125	12J2840	0.90	0.80	53K9054	0.64
● R4513.15L	3.15A	125	12J2870	0.90	0.80	53K9069	0.64
● R45103.5L	3.5A	125	12J2856	0.90	0.80	53K9066	0.64
● R451004.L	4A	125	12J2841	0.90	0.80	53K9055	0.64
● R451005.L	5A	125	12J2843	0.90	0.80	53K9057	0.64
● R45106.3L	6.3A	125	12J2867	0.90	0.80	53K9067	0.64
● R451007.L	7A	125	12J2845	0.90	0.80	53K9058	0.64
● R451008.L	8A	125	12J2846	0.90	0.80	53K9059	0.64
● R451010.L	10A	125	12J2850	1.41	1.27	53K9062	1.01
● R451012.L	12A	65	12J2852	1.41	1.27	53K9063	1.01
● R451015.L	15A	65	12J2854	1.41	1.27	53K9064	1.01

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452 SERIES NANO² SMF SLO-BLO[®] TYPE FUSES



Subminiature surface-mount fuses. Blow time: 4 hours min. @ 100%; 60 sec. max. Interrupting ratings: 50A @125VAC, 50A @125VDC, 300A @32VDC. Ceramic body with tin-lead alloy or silver-plated brass cap terminations. Soldering parameters: wave solder—260°C, 3 sec. max. Reflow solder—260°C, 30 sec. max. Solderability: MIL-STD-202, Method 208. Operating temperature: -55°C to 125°C. RoHS compliant, UL recognized, CSA certified. Packaging specifications: 12mm tape and reel; 1000 pieces per reel, add packaging suffix NR; 5000 per reel, add packaging suffix NR.



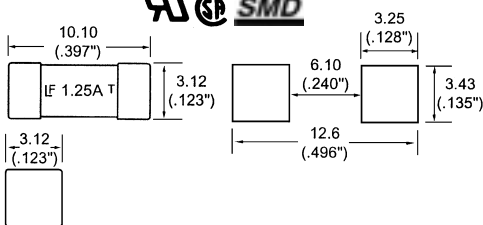
ELECTRICAL CHARACTERISTICS

% of Ampere Rating	Opening Time
100%	4 hours, Min.
200%	1 sec., Min.; 60 sec., Max.
300%	0.2 sec., Min.; 3 sec., Max.
800%	0.02 sec., Min.; 0.1 sec., Max.

Mfg. Part No.	Current Rating	Volts	Tape Cut			Tape & Reel	
			Stock No.	1-9	10-99	Stock No.	Price Each
● R452.375L	375mA	125	12J2897	1.48	1.42	53K9070	1.48
● R452.500L	500mA	125	12J2898	1.48	1.42	53K9071	1.48
● R452.750L	750mA	125	12J2899	1.48	1.42	53K9072	1.48
● R452001.L	1A	125	12J2900	1.48	1.42	53K9073	1.00
● R45201.5L	1.5A	125	12J2905	1.48	1.42	53K9078	1.00
● R452002.L	2A	125	12J2901	1.48	1.42	53K9074	1.00
● R45202.5L	2.5A	125	12J2906	1.48	1.42	53K9079	1.00
● R452003.L	3A	125	12J2902	1.48	1.42	53K9075	1.00
● R45203.5L	3.5A	125	12J2907	1.48	1.42	53K9080	1.00
● R452004.L	4A	125	12J2903	1.48	1.42	53K9076	1.00
● R452005.L	5A	125	12J2904	1.48	1.42	53K9077	1.00

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461 SERIES TELECOM NANO² FUSES



- Ideal for Use in Telecommunication Equipment
- 2A Rating has Improved Temperature Rise Performance under 2.2A Surge Current Testing
- Interrupt Rating: 50A @ 250VAC
- Operating Temp. Range: -55°C to 125°C
- Ceramic Body; Silver Plated Brass Cap Termination
- Reflow Solder Parameter: 230°C, 30 Seconds Maximum
- Wave Solder Parameter: 260°C, 3 Seconds Maximum

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SURFACE MOUNT FUSES

461 SERIES TELECOM NANO²® FUSES (CONT.)

461 series surface mount fuses provide overcurrent protection from power cross and allow compliance with lightning surges. Designed to allow compliance with Bellcore/Telcordia GR-1089-CORE and FCC 47 part 68 Surge Specifications. UL recognized, CSA certified.

ELECTRICAL CHARACTERISTICS

% of Ampere Rating		Opening Time	
100%		4 Hours Min.	
250%		1 Second, Min.; 120 Seconds Max.	

Mfg. Part No.	Current Rating	Voltage Rating (V)	Nominal Resistance Cold Ohms	Stock No.	Price Each	
● 0461.500ER	500mA	600	0.560	34C6799	1-9	0.87
● 04611.25ER	1.25A	600	0.110	34C6800	1-9	0.87
● 0461002T*	2A	600	0.050	12J3705	0.98	0.85

* Tin-Lead Alloy Termination
(69133)

242 SERIES BARRIER NETWORK SURFACE MOUNT FUSES



RoHS
Compliant
Available



242 series barrier network surface mount fuses with 4000A interrupting rating. Meets barrier network standards (EN50020) for hazardous applications. Available in rating of 0.050 to .250A. RoHS compliant. UL recognized.

Mfg. Part No.	Current Rating (mA)	Voltage Rating (V)	Sold Individually		Tape & Reel	
			Stock No.	Price Each	Stock No.	Price Each
● 0242.050UR	50	250	86H3066	3.15	53K9004	3.15
● 0242.080UR	80	250	98H3958	3.15	53K9005	3.15
● 0242.100UR	100	250	12J3637	3.15	53K9006	3.15
● 0242.160UR	160	250	12J3639	3.15	53K9007	3.15
● 0242.200UR	200	250	12J3641	3.15	53K9008	3.15
● 0242.250UR	250	250	12J3643	3.15	53K9009	3.15

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242 SERIES BARRIER NETWORK SURFACE MOUNT FUSES



RoHS
Compliant
Available



242 series barrier network surface mount fuses with 4000A interrupting rating. Meets barrier network standards (EN50020) for hazardous applications. Available in rating of 0.050 to .250A. RoHS compliant. UL recognized.

Mfg. Part No.	Amps	Volts	Stock No.	Price Each			
				1-9	10-49	50-99	100-249
● 0242.100UR	100	250	12J3637	3.15	3.00	2.85	2.63
● 0242.160UR	160	250	12J3639	3.15	3.00	2.85	2.63
● 0242.200UR	200	250	12J3641	3.15	3.00	2.85	2.63
● 0242.250UR	250	250	12J3643	3.15	3.00	2.85	2.63

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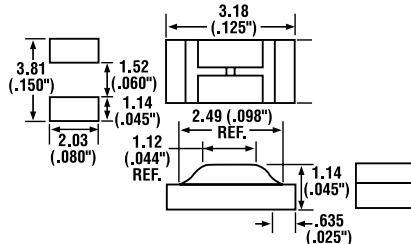
429 SERIES VERY FAST-ACTING THIN-FILM FUSES



RoHS
Compliant
Available



Surface-mount fuses. Supplied on 8mm reels for use with automatic placement equipment. All tape and reel specifications are in compliance with EIA-RS481 (equivalent to IEC 286 part 3). Epoxy substrate body, conformal coating. Terminations: copper/nickel/tin-lead (95-5). Reflow solder parameters: 260°C, 30 seconds max. Operating temperature: -55°C to +90°C. Go online or call for complete line of fast-acting thin-film fuses. UL recognized, CSA certified.



ELECTRICAL CHARACTERISTICS

% of Ampere Rating	Opening Time at 25°C
100%	4 Hours, Minimum
200%	5 Seconds, Maximum
300%	0.2 Seconds, Maximum

INTERRUPTING RATINGS

0.125 - 3A 4 - 7A	50A at Rated Voltage, VAC/VDC 35A at Rated Voltage, VAC/VDC
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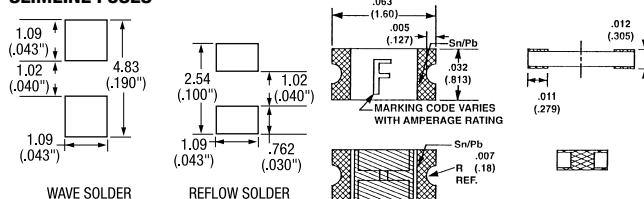
Mfg. Part No.	Current Rating (A)	Voltage Rating (V)	Stock No.	Price Each			
R429.125	1/8	125	91F3134	0.96	0.89	0.83	0.77
R429.750	3/4	63	91F3135	0.79	0.73	0.68	0.64
R429001	1	63	66F4332	0.79	0.73	0.68	0.64
R429003	3	32	52F6602	0.79	0.73	0.68	0.64
R429004	4	24	52F6603	0.79	0.73	0.68	0.64
R429005	5	24	91F3136	0.79	0.73	0.68	0.64

(9372)

434 SERIES (0603) VERY FAST-ACTING SLIMLINE FUSES



RoHS
Compliant
Available



Extremely small, low-profile surface mount design (0603 chip size) utilizes thin-film technology to help achieve precise control of electrical characteristics. 1-pc. element/termination design. Lower height profile produces a flat surface for improved performance in pick-and-place operations and an alternate solution for height-critical applications. Operating temperature: -50°C to +90°C. Materials: body, epoxy substrate. Terminations: copper/nickel/tin-lead (95%). Cover coat: conformal coating. Soldering Parameters: wave solder—260°C, 10 seconds max. Infrared solder—260°C, 30 seconds max. UL recognized, CSA certified.

ELECTRICAL CHARACTERISTICS

% of Ampere Rating	Opening Time at 25°C
100%	4 hours, Minimum
200%	5 seconds, Maximum
300%	0.2seconds, Maximum

INTERRUPTING RATINGS

.25—1A 1.25—5A	50A @ 32VAC/VDC 35A @ 32VAC/VDC
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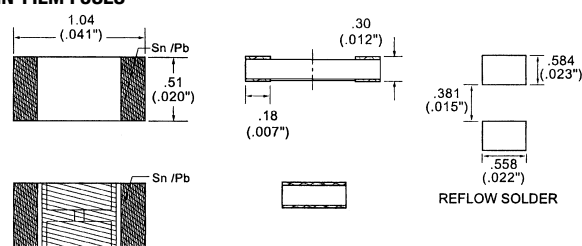
Mfg. Part No.	Current Rating (A)	Voltage Rating (V)	Nom. Resistance Cold Ohms*	Stock No.	Price Each		
434.250	1/4	32	0.375	18C5296	0.71	0.61	0.57
434.375	3/8	32	0.265	18C5297	0.71	0.61	0.57
434.500	1/2	32	0.193	18C5298	0.71	0.61	0.57
434.750	3/4	32	0.114	18C5299	0.71	0.61	0.57
434001	1	32	0.072	18C5300	0.71	0.61	0.57
4341.25	1 1/4	32	...	18C5307	0.71	0.61	0.57
43401.5	1 1/2	32	0.048	18C5305	0.71	0.61	0.57
4341.75	1 3/4	32	...	18C5308	0.71	0.61	0.57
434002	2	32	0.036	18C5301	0.71	0.61	0.57
43402.5	2 1/2	32	0.028	18C5306	0.71	0.61	0.57
434003	3	32	0.023	18C5302	0.71	0.61	0.57
434004	4	32	0.017	18C5303	0.71	0.61	0.57
434005	5	32	0.013	18C5304	0.71	0.61	0.57

*Measured at 10% of rated current @25°C
(56773)

435 SERIES SLIMLINE VERY FAST-ACTING THIN-FILM FUSES



RoHS
Compliant
Available



435 series EIA size 0402 SlimLine fuses are the smallest available and ideal for space sensitive applications. Interrupting ratings: 35A @ 24V AC/DC. Body material: epoxy substrate; terminations: copper/nickel/tin-lead, cover coat: conformal coating. Soldering parameters: reflow solder—260°C, 30 seconds maximum. Operating temperature: -55°C to 90°C.

ELECTRICAL CHARACTERISTICS

% of Ampere Rating	Opening Time @ 25°C
100%	4 Hours Min.
200%	5 sec Max.
300%	0.2 sec Max.

Mfg. Part No.	Current Rating	Voltage Rating (V)	Resistance Cold Ohm*	Nominal Melting I ² t ⁺ (A ² Sec.)	Stock No.	1-9
● 0435.250KR	250mA	32	0.220	0.0025	30C5435	0.70
● 0435.375KR	375mA	32	0.185	0.0035	30C5436	0.70
● 0435.500KR	500mA	32	0.150	0.0053	30C5437	0.70
● 0435.750KR	750mA	32	0.105	0.012	30C5438	0.70
● 0435.001.KR	1A	32	0.072	0.020	30C5430	0.70
● 0435.1.25KR	1.25A	32	0.060	0.035	30C5433	0.70
● 0435.01.5KR	1.5A	32	0.047	0.056	30C5432	0.70

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CIRCUIT PROTECTION

SURFACE MOUNT FUSES

435 SERIES SLIMLINE VERY FAST-ACTING THIN-FILM FUSES (CONT.)

Mfg. Part No.	Current Rating	Voltage Rating (V)	Resistance Cold Ohm*	Nominal Melting I**† (A** Sec.)	Stock No.	Price Each
● 0435 1.75KR	1.75A	32	0.038	0.075	30C5434	0.70
● 0435 002.KR	2A	32	0.030	0.100	30C5431	0.70

*Measured @10% of rated current, 25°C; **Measured at rated voltage (72166)

MFU SERIES - THIN FILM CHIP FUSES

Features

- Advanced thin film technology
- Very quick acting fuse characteristics
- Outstanding stability of fusing characteristics
- Standard metric SMD sizes
- Compatible with (Pb)-free and lead containing soldering processes

MFU Series Thin Film Flat Chip Fuses are the perfect choice for most fields of modern electronics. The highly controlled manufacturing thin film process guarantees an outstanding stability of fusing characteristics. Typical applications include information technology, telecommunication, medical equipment, industrial, audio/video and automotive electronics.

0603 SIZE

Mfg. Part No.	Current Rating (A)	DC Voltage Rating (V)	Stock No.	Price Each	
				1-49	50-99
● MFU0603FF00500P500	0.5	32	89K7151	0.40	0.36
● MFU0603FF00630P100	0.63	32	89K7152	0.55	0.50
● MFU0603FF00750P100	0.75	32	89K7153	0.55	0.50
● MFU0603FF00800P100	0.8	32	89K7154	0.55	0.50
● MFU0603FF01000P100	1	32	89K7155	0.41	0.37
● MFU0603FF01250P100	1.25	32	89K7156	0.41	0.37
● MFU0603FF01500P100	1.5	32	89K7157	0.41	0.37
● MFU0603FF01600P100	1.6	32	89K7158	0.41	0.37
● MFU0603FF01750P100	1.75	32	89K7159	0.41	0.37
● MFU0603FF02000P100	2	32	89K7160	0.41	0.37
● MFU0603FF02500P100	2.5	32	89K7161	0.41	0.37
● MFU0603FF03000P500	3	32	89K7162	0.30	0.27
● MFU0603FF03150P100	3.15	32	89K7163	0.41	0.37
● MFU0603FF03500P100	3.5	32	89K7164	0.41	0.37
● MFU0603FF04000P100	4	32	89K7165	0.41	0.37

0805 SIZE

● MFU0805FF00500P100	0.5	32	89K7166	0.74	0.67
● MFU0805FF00630P100	0.63	32	89K7167	0.74	0.67
● MFU0805FF00750P100	0.75	32	89K7168	0.74	0.67
● MFU0805FF00800P100	0.8	32	89K7169	0.74	0.67
● MFU0805FF01000P100	1	32	89K7170	0.56	0.50
● MFU0805FF01250P100	1.25	32	89K7171	0.56	0.50
● MFU0805FF01500P100	1.5	32	89K7172	0.56	0.50
● MFU0805FF01600P100	1.6	32	89K7173	0.56	0.50
● MFU0805FF01750P100	1.75	32	89K7174	0.56	0.50
● MFU0805FF02000P100	2	32	89K7175	0.56	0.50
● MFU0805FF02500P100	2.5	32	89K7176	0.56	0.50
● MFU0805FF03000P100	3	32	89K7177	0.56	0.50
● MFU0805FF03150P100	3.15	32	89K7178	0.56	0.50
● MFU0805FF03500P100	3.5	32	89K7179	0.56	0.50
● MFU0805FF04000P100	4	32	89K7180	0.56	0.50

1206 SIZE

● MFU1206FF00500P100	0.5	63	89K7181	0.91	0.82
● MFU1206FF00630P100	0.63	63	89K7182	0.91	0.82
● MFU1206FF00750P100	0.75	63	89K7183	0.91	0.82
● MFU1206FF00800P100	0.8	63	89K7184	0.91	0.82
● MFU1206FF01000P100	1	63	89K7185	0.68	0.62
● MFU1206FF01250P100	1.25	63	89K7186	0.68	0.62
● MFU1206FF01500P100	1.5	63	89K7187	0.68	0.62
● MFU1206FF01600P100	1.6	63	89K7188	0.68	0.62
● MFU1206FF01750P100	1.75	63	89K7189	0.68	0.62
● MFU1206FF02000P100	2	63	89K7190	0.68	0.62
● MFU1206FF02500P100	2.5	63	89K7191	0.68	0.62
● MFU1206FF03000P100	3	63	89K7192	0.68	0.62
● MFU1206FF03150P100	3.15	63	89K7193	0.68	0.62
● MFU1206FF03500P100	3.5	63	89K7194	0.68	0.62
● MFU1206FF04000P100	4	63	89K7195	0.68	0.62
● MFU1206FF05000P100	5	63	89K7196	0.68	0.62

(88734)

● Indicates RoHS Compliant

Accu-Guard® SMD THIN-FILM FUSES



Features

- Accurate current rating
- Fast acting
- Completely compatible with all soldering systems used for SMT

Applications

- Cellular Telephones
- Two-Way Radios
- Computers
- Battery Chargers
- Rechargeable Battery Packs
- Hard Disk Drives
- PDA's
- LCD Screens
- SCSI Interface
- Digital Cameras
- Video Cameras

Specifications: 1206 Package Size, 63V Voltage Rating, Tape & reel qty: 3000.

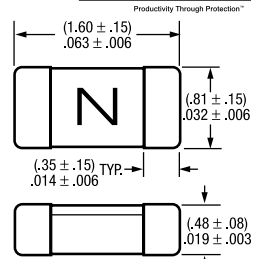
Mfg. Part No.	Current Rating (A)	Tape Cut		Tape & Reel	
		Stock No.	Price Each	Stock No.	Price Each
F1206A0R25FWTR.	0.25	88K2852	0.30	53J1750	0.30
F1206A0R50FWTR.	0.5	88K2853	0.30	53J1752	0.30
F1206A1R00FWTR.	1	88K2854	0.30	53J1754	0.30
F1206A1R50FWTR.	1.5	88K2855	0.30	53J1757	0.30
F1206A2R00FWTR.	2	88K2856	0.30	53J1759	0.30

(87937)

0603FA SERIES FAST ACTING CHIP™ FUSE



- Rapid Interruption of Excessive Current
- Compatible with Reflow and Wave Soldering Techniques
- Rugged Ceramic and Glass Construction
- Excellent Environmental Integrity
- One Time Positive Disconnect
- Voltage Rating DC: 32V (≤2A); 24V (≥2.5A)
- Wave Solder: 260°C, 10 Seconds Max.
- Infrared Reflow: 260°C, 30 Second Max.
- RoHS Compliant



Life test: MIL-STD-202, Method 108A. Load humidity test: MIL-STD-202, Method 103B. Moisture resistance test: MIL-STD-202, Method 106E. Thermal shock test: MIL-STD-202, Method 107D. Solderability: ANSI/J-STD-002. Mechanical shock test: MIL-STD-202, Method 213B. Tape & reel qty: 3000.

Mfg. Part No.	Current Rating	Interrupting Rating at Rated Voltage (A)*	Typical Voltage Drop (V)†	Tape Cut		Tape & Reel	
				Stock No.	Price Each	Stock No.	Price Each
● 0603FA375-R	375mA	50	0.605	19K7742	0.75	33K8296	0.27
● 0603FA500-R	500mA	50	0.6	19K7745	0.75	33K8299	0.27
● 0603FA750-R	750mA	50	0.44	19K7746	0.81	33K8300	0.29
● 0603FA1-R	1A	50	0.211	19K7737	0.75	33K8291	0.27
● 0603FA1.25-R	1.25A	35	0.151	19K7735	0.42	33K8289	0.29
● 0603FA1.5-R	1.5A	35	0.138	19K7736	0.37	33K8290	0.25
● 0603FA2-R	2A	35	0.116	19K7739	0.37	33K8293	0.25
● 0603FA2.5-R	2.5A	35	0.113	19K7738	0.37	33K8292	0.25
● 0603FA3-R	3A	35	0.11	19K7741	0.37	33K8295	0.25
● 0603FA3.5-R	3.5A	35	0.103	19K7740	0.37	33K8294	0.25
● 0603FA4-R	4A	35	0.098	19K7743	0.37	33K8297	0.28
● 0603FA5-R	5A	35	0.09	19K7744	0.39	33K8298	0.27

* DC Interrupting Rating (measured at designated voltage, time constant of less than 50 microseconds, battery source). † Typical Voltage Drop (measured at rated current after temperature stabilizes) (72268)

Best products, great value.

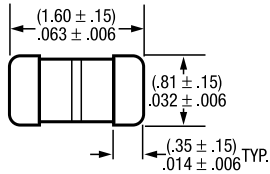
(94650)

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We offer the broadest in-stock selection. Visit us online or call us today.

SURFACE MOUNT FUSES • RADIAL LEAD FUSES

1608FF SERIES FAST ACTING CHIP™ FUSES



- Small, Fast Acting Surface Mount Fuses Utilize Thick and Thin Metal Film Technologies for Superior Fusing Action and Enhanced Reliability
- Excellent Short-Circuit Performance and Environmental Integrity
- End Terminations Are Over-Plated with Nickel and Tin-Lead

- Solder-Free Design Provides Excellent Temperature Cycling Characteristics
- Heat and Shock Tolerant
- Wave Solder: 260°C, 10 s Max.
- Infrared Reflow: 260°C, 30 s Max.
- Voltage Rating: 24VDC
- Interrupting Rating: 35A

Thermal shock: MIL-STD-202, Method 107. Vibration: MIL-STD-202, Method 204. Moisture resistance: MIL-STD-202, Method 106. Solderability: ANSI/J-STD-002, Test B. UL recognized, CSA certified. Also available 3,000 piece on 8mm tape on 7" reel; go online or call for details.

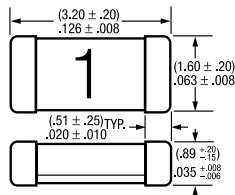
Mfg. Part No.	Typical Voltage Drop (V)*	Color Code Cover/Stripe	Stock No.	Price Each		
				1-24	25-49	50-99
1608FF-1A	0.18	Brown	85C1056	0.59	0.54	0.49
1608FF-1.5A	0.12	Brown/White	85C1055	0.59	0.54	0.49
1608FF-2A	0.11	Black	85C1058	0.59	0.54	0.49

* Measured at rated current after temperature stabilizes (72269)

3216FF SERIES SURFACE MOUNT, FAST-ACTING CHIP™ FUSES



- Rapid Interruption of Excessive Current
- Compatible with Reflow and Wave Solder
- Excellent Environmental Integrity
- Ampere Rating Marked and Oriented Facing up in Carrier
- Solder-Free Design Provides Excellent Temperature Cycling Characteristics
- Heat and Shock Tolerant
- Voltage Rating AC: 32V
- Voltage Rating DC: 32V (<4A); 63V (>4A)
- Interrupting Rating: 50A
- Wave Immersion: 260°C, 10 Seconds Max.
- Infrared Reflow: 260°C, 30 Seconds Max.



Thermal shock: MIL-STD-202, Method 107. Vibration: MIL-STD-202, Method 204. Moisture resistance: MIL-STD-202, Method 106. Solderability: ANSI/J-STD-002, Test B. UL recognized, CSA certified. Tape & reel qty: 3000.

Mfg. Part No.	Current Rating	Typical Voltage Drop (V)*	Tape Cut		Tape & Reel	
			Stock No.	Price Each	Stock No.	Price Each
3216FF250-R	250mA	1.4	19K7751	0.59	33K8278	0.34
3216FF375-R	375mA	0.73	19K7753	0.67	33K8280	0.29
3216FF500-R	500mA	0.66	19K7757	0.67	33K8284	0.29
3216FF750-R	750mA	0.63	19K7760	0.56	33K8287	0.29
3216FF1-R	1A	0.2	19K7749	0.67	33K8275	0.29
3216FF1.25-R	1.25A	0.2	19K7747	0.67	33K8273	0.34
3216FF1.5-R	1.5A	0.18	19K7748	0.62	33K8274	0.29
3216FF2-R	2A	0.16	95J9753	0.67	33K8277	0.29
3216FF2.5-R	2.5A	0.14	19K7750	0.56	33K8276	0.29
3216FF3-R	3A	0.13	19K7752	0.56	33K8279	0.29
3216FF4-R	4A	0.11	19K7755	0.56	33K8282	0.29
3216FF4.5-R	4.5A	0.1	19K7754	0.56	33K8281	0.34
3216FF5-R	5A	0.09	19K7756	0.67	33K8283	0.29
3216FF6.5-R	6.5A	0.076	19K7758	0.56	33K8285	0.32
3216FF7-R	7A	0.078	19K7759	0.67	33K8286	0.34

* Measured at rated current after temperature stabilizes (72270)

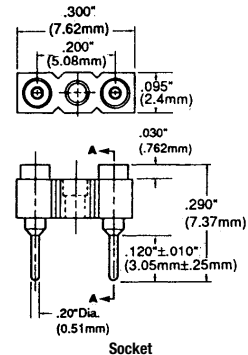
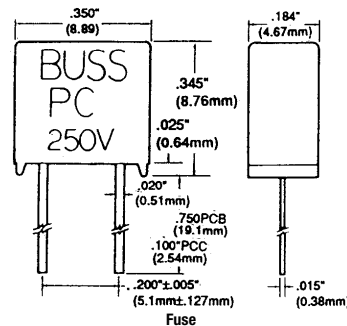
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(94656)

PCB SERIES FAST-ACTING PC BOARD FUSES



- Non-Time Delay
- Ideal for Line Side Protection
- Board Washable

- UL Recognized - File E19180, Guide JDYX2
- CSA Certified - File 42731, Class 1422-01

PC-Tron® subminiature PC board fuses limit energy let-through, 250V, except (*) denotes 125V. The PC-Tron subminiature fuse is UL Recognized for DC supplementary overcurrent protection to provide individual protection for components or internal circuits. Order fuse socket separately below.

PCB SERIES, 0.75" (19.05) LEADS

Mfg. Part No.	Current Rating (A)	AC Interrupting	Stock No.	Price Each		
				1-9	10-49	50-99
PCB-1/2-R	1/2	50A @ 250V 10kA @ 125V	48K9797	1.08	1.05	0.98
PCB-3/4-R	3/4		48K9801	1.08	1.05	0.98
PCB-1-R	1		48K9795	1.08	1.05	0.98
PCB-1-1/2-R	1 1/2		48K9796	1.08	1.05	0.98
PCB-2-R	2		48K9798	1.08	1.05	0.98
PCB-2-1/2-R	2 1/2	50A @ 250V	48K9799	1.08	1.05	0.98
PCB-3-R	3		48K9800	1.08	1.05	0.98

PCC SERIES, 0.1" (2.54) LEADS

Mfg. Part No.	Current Rating (A)	AC Interrupting	Stock No.	Price Each		
				1-9	10-49	50-99
PCC-1/2-R	1/2	50A @ 250V 10kA @ 125V	48K9804	1.08	1.05	0.98
PCC-3/4-R	3/4		48K9808	1.08	1.05	0.98
PCC-1-R	1		48K9802	1.08	1.05	0.98
PCC-1-1/2-R	1 1/2		48K9803	1.08	1.05	0.98
PCC-2-R	2		48K9805	1.08	1.05	0.98
PCC-2-1/2-R	2 1/2	50A @ 250V	48K9806	1.03	1.00	0.94
PCC-3-R	3		48K9807	1.08	1.05	0.98

PCD SERIES, 0.75" (19.05) LEADS

Mfg. Part No.	Current Rating (A)	AC Interrupting	Stock No.	Price Each
PCD-5-R	5	10kA @ 125V	48K9809	1.08 1.05 0.98

PCE SERIES, 0.1" (2.54) LEADS

Mfg. Part No.	Current Rating (A)	AC Interrupting	Stock No.	Price Each
PCE-5-R	5	10kA @ 125V	48K9810	1.08 1.05 0.98

PCF SERIES, 0.475" (12.065) LEADS

Mfg. Part No.	Current Rating (A)	AC Interrupting	Stock No.	Price Each		
				1.45	1.40	1.31
PCF-1/2-R	1/2	50A @ 250V 10kA @ 125V	48K9813	1.45	1.40	1.31
PCF-3/4-R	3/4		48K9817	1.45	1.40	1.31
PCF-1-R	1		48K9811	1.45	1.40	1.31
PCF-1-1/2-R	1 1/2		48K9812	1.45	1.40	1.31
PCF-2-R	2		48K9814	1.45	1.40	1.31
PCF-2-1/2-R	2 1/2	50A @ 250V	48K9815	1.45	1.40	1.31
PCF-3-R	3		48K9816	1.45	1.40	1.31

PCG SERIES, 0.475" (12.065) LEADS

Mfg. Part No.	Current Rating (A)	AC Interrupting	Stock No.	Price Each
PCG-5-R	5	10kA @ 125V	48K9818	3.15 3.05 2.86

PCH SERIES, 0.125" (3.175) LEADS

● PCH-1/2-R	½	50A @ 250V 10kA @ 125V	48K9821	1.52	1.47	1.38
● PCH-3/4-R	¾		48K9825	1.52	1.47	1.38
● PCH-1-R	1		48K9819	1.59	1.54	1.44
● PCH-1-1/2-R	1½		48K9820	1.59	1.54	1.44
● PCH-2-R	2		48K9822	1.59	1.54	1.44
● PCH-2-1/2-R	2½		48K9823	1.52	1.47	1.38
● PCH-3-R	3		48K9824	1.59	1.54	1.44

PCI SERIES, 0.125" (3.175) LEADS

Mfg. Part No.	Current Rating (A)	AC Interrupting	Stock No.	Price Each
PCI-5-R	5	10kA @ 125V	48K9826	1.59 1.54 1.44

SOCKET FOR PC-TRON® PC BOARD FUSES

Mfg. Part No.	Description	Stock No.	Price Each
			1-9
PCS-R	PC Board fuse socket	65K4440	0.46

(2321)

CIRCUIT PROTECTION

● Indicates RoHS Compliant

RADIAL LEAD FUSES

NON RESETTABLE 250V MICROFUSES

- Rated Current: 50mA to 6.3A
- Rated Voltage: 250V
- Low Breaking Capacity: 35A
- Size (mm): 8.45 x 8.5 Diameter
- 5.08mm Lead Spacing
- Order Fuse Holder Separately Below

Other rated currents are available on tape and reel; go online or call.

SCHURTER
ELECTRONIC COMPONENTS

MSF SERIES QUICK-ACTING MICROFUSES

Mfg. Part No.	Current Rating	Stock No.	Price Each	
			1-49	50-99
● 0034.6001	50mA	88K2046	1.41	1.20
● 0034.6011	500mA	88K1288	1.04	0.90
● 0034.6014	1A	92B2095	0.47	0.43
● 0034.6017	2A	97B3621	0.47	0.43
● 0034.6019	3.5 A	88K2047	1.04	0.90
● 0034.6020	4A	31C2026	0.47	0.43
● 0034.6021	5A	50B7030	0.47	0.43

MST SERIES TIME-LAG MICROFUSES

Mfg. Part No.	Current Rating	Stock No.	Price Each	
			1-49	50-99
● 0034.6608	200mA	16F2131	0.54	0.49
● 0034.6609	250mA	16F2132	0.54	0.49
● 0034.6611	400mA	16F2143	0.54	0.49
● 0034.6603	63mA	06C0265	0.84	0.77
● 0034.6614	800mA	16F2146	0.54	0.49
● 0034.6616	1.25A	96K3183	1.20	1.03
● 0034.6617	1.6A	16F2149	0.54	0.49
● 0034.6618	2A	88K2048	1.20	1.03
● 0034.6619	2.5A	16F2151	0.54	0.49
● 0034.6620	3.15A	88K2049	1.20	1.03
● 0034.6622	5A	16F2154	0.54	0.49

MSU SERIES TELECOM TIME-LAG MICROFUSES

Mfg. Part No.	Current Rating	Stock No.	Price Each	
			1-49	50-99
● 2040.0611	400mA	91F7240	0.75	0.68
● 2040.0612	500mA	91F7241	0.75	0.68
● 2040.0614	800mA	88K1355	1.68	1.44
● 2040.0615	1A	88K2122	1.68	1.44

FUSE HOLDER

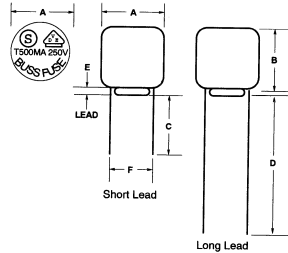
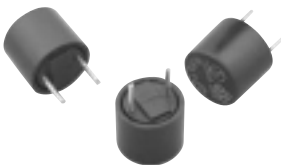
Mfg. Part No.	Description	Stock No.	Price Each
			1-49
● 0031.7601	Fuse Holder	92B2225	0.40

(2399)

TIME-LAG RADIAL LEAD MICROFUSES



RoHS Compliant Available

COOPER
Bussmann®
Productivity Through Protection™

- Vibration Resistance: MIL-STD-202, Method 201
- Shock Resistance: MIL-STD-202, Method 213
- Moisture Resistance: MIL-STD-202F, Method 106
- Salt Spray: MIL-STD-202, Method 101
- Operating Temperature: -55°C to +125°C

ETF series time-lag, 250VAC radial lead microfuses. Meet IEC 127-3 specifications, standard sheet 4 (Type T). Dimensions (mm): A = 8.35, B = 7.7, E = 0.5, F = 5.0. Short lead (C) = 4.3. Long lead (D) = 18.8. UL recognized, CSA certified. VDE approved, SEMKO approved.

Mfg. Part No.	Current Rating (A)	Voltage Drop* (mV)	Stock No.	Price Each		
				1-9	10-49	50-99
● ETF-1.6	1.6	120	96C9108	0.82	0.74	0.71
● ETF2	2	100	91F4756	0.82	0.74	0.71
● ETF2.5	2.5	100	91F4757	0.82	0.74	0.71
● ETF3.15	3.15	100	91F4758	1.11	1.01	0.96
● ETF4	4	100	91F4759	0.82	0.74	0.71

*Measured at 75% normal ambient. (12127)

SR-5 SERIES TIME-DELAY SUBMINIATURE PC BOARD FUSES

- UL Recognized
- CSA Certified
- VDE Approved
- Semko Approved

COOPER
Bussmann®
Productivity Through Protection™

SR-5 series time-delay radial leaded subminiature fuses. Designed to IEC 60127-3. Internationally accepted for primary and secondary overcurrent protection. Can be placed directly into PC board or plugged into mfg part no. PCS fuseholder; order separately below. High inrush withstand capability. Solderability: EIA-186-9E, Method 9. High frequency vibration: MIL-STD-202F, Method 201A. Compatible with leaded and lead-free reflow and wave solder.

BULK PACK

Mfg. Part No.	Current Rating	Voltage Rating (VAC)	Interrupting Current (A)*	Stock No.	Price Each		
					1-24	25-49	50-99
● SR-5-500MA	500mA	250	35	63K6462	0.38	0.33	0.30
● SR-5-630MA	630mA	250	35	63K6464	0.38	0.33	0.30
● SR-5-800MA	800mA	250	35	63K6466	0.38	0.33	0.30
● SR-5-1A	1A	250	35	63K6448	0.38	0.33	0.30
● SR-5-1.25A	1.25A	250	35	63K6444	0.38	0.33	0.30
● SR-5-1.6A	1.6A	250	35	63K6446	0.38	0.33	0.30
● SR-5-2A	2A	250	35	63K6452	0.38	0.33	0.30
● SR-5-2.5A	2.5A	250	35	63K6450	0.38	0.33	0.30
● SR-5-3.15A	3.15A	250	35	63K6454	0.38	0.33	0.30
● SR-5-4A	4A	250	40	63K6456	0.38	0.33	0.30
● SR-5-5A	5A	250	50	63K6460	0.38	0.33	0.30

AMMO PACK

Mfg. Part No.	Current Rating	Voltage Rating (VAC)	Interrupting Current (A)*	Stock No.	Price Each
● SR-5-500MA-AP	500mA	250	35	63K6461	0.18
● SR-5-630MA-AP	630mA	250	35	63K6463	0.18
● SR-5-800MA-AP	800mA	250	35	63K6465	0.18
● SR-5-1A-AP	1A	250	35	63K6447	0.18
● SR-5-1.25A-AP	1.25A	250	35	63K6443	0.18
● SR-5-1.6A-AP	1.6A	250	35	63K6445	0.18
● SR-5-2A-AP	2A	250	35	63K6451	0.18
● SR-5-2.5A-AP	2.5A	250	35	63K6449	0.18
● SR-5-3.15A-AP	3.15A	250	35	63K6453	0.18
● SR-5-4A-AP	4A	250	40	63K6455	0.18
● SR-5-5A-AP	5A	250	50	63K6459	0.18

*At rated voltage

FUSEHOLDER

Mfg. Part No.	Stock No.	Price Each		
		1-9	10-49	50-99
● PCS-R	65K4440	0.46	0.45	0.42

(87954)

SR-5F SERIES FAST-ACTING SUBMINIATURE THRU-HOLE FUSES

- Accepted for primary and secondary overcurrent protection
- UL recognized: E146895 (400mA thru 10A)
- CSA approved: LR98127 (400mA thru 10A)

COOPER
Bussmann®
Productivity Through Protection™

SR-5F series radial leaded fast-acting thru-hole fuses are designed to UL 248-14. Can be placed directly into PC board or plugged into mfg part no. PCS fuseholder; order separately below. Solderability: EIA-186-9E, Method 9. High frequency vibration: MIL-STD-202F, Method 201A. Pins are tin plated copper. Compatible with leaded and lead-free reflow and wave solder.

BULK PACK — 200 PER BAG

Mfg. Part No.	Current Rating	Voltage Rating (VAC)	Interrupting Current (A)*	Stock No.	Price Each		
					1-99	100-249	250-499
● SR-5F-800MA-BK	400mA-10A	250	50	77K7834	0.58	0.56	0.53
● SR-5F-1.25A-BK	400mA-10A	250	50	77K7812	0.58	0.56	0.53
● SR-5F-1.6A-BK	400mA-10A	250	50	77K7814	0.58	0.56	0.53
● SR-5F-1A-BK	400mA-10A	250	50	77K7816	0.58	0.56	0.53
● SR-5F-2A-BK	400mA-10A	250	50	77K7820	0.58	0.56	0.53
● SR-5F-2.5A-BK	400mA-10A	250	50	77K7818	0.58	0.56	0.53
● SR-5F-3.15A-BK	400mA-10A	250	50	77K7822	0.58	0.56	0.53
● SR-5F-4A-BK	400mA-10A	250	50	77K7824	0.58	0.56	0.53
● SR-5F-5A-BK	400mA-10A	250	50	77K7828	0.58	0.56	0.53
● SR-5F-6.3A-BK	400mA-10A	125	50	20M1605	0.58	0.56	0.53
● SR-5F-7A-BK	400mA-10A	125	50	20M1607	0.58	0.56	0.53
● SR-5F-8A-BK	400mA-10A	125	50	20M1609	0.58	0.56	0.53
● SR-5F-10A-BK	400mA-10A	125	50	20M1603	0.58	0.56	0.53

➤ CONTINUED ➤

RADIAL LEAD FUSES • AXIAL LEAD FUSES

SR-5F SERIES FAST-ACTING SUBMINIATURE THRU-HOLE FUSES (CONT.)

AMMO PACK TAPED — 1,000 PER BOX

Mfg. Part No.	Current Rating	Voltage Rating (VAC)	Interrupting Current (A)*	Stock No.	Price 1-99
● SR-5F-800MA-AP	400mA-10A	250	50	77K7833	0.52
● SR-5F-1.25A-AP	400mA-10A	250	50	77K7811	0.52
● SR-5F-1.6A-AP	400mA-10A	250	50	77K7813	0.52
● SR-5F-1A-AP	400mA-10A	250	50	77K7815	0.52
● SR-5F-2A-AP	400mA-10A	250	50	77K7819	0.52
● SR-5F-2.5A-AP	400mA-10A	250	50	77K7817	0.52
● SR-5F-3.15A-AP	400mA-10A	250	50	77K7821	0.52
● SR-5F-4A-AP	400mA-10A	250	50	77K7823	0.52
● SR-5F-5A-AP	400mA-10A	250	50	77K7827	0.52
● SR-5F-6.3A-AP	400mA-10A	125	50	20M1604	0.52
● SR-5F-7A-AP	400mA-10A	125	50	20M1606	0.52
● SR-5F-8A-AP	400mA-10A	125	50	20M1608	0.52
● SR-5F-10A-AP	400mA-10A	125	50	20M1602	0.52

*At rated voltage

FUSEHOLDER

Mfg. Part No.	Stock No.	Price Each		
		1-9	10-49	50-99
● PCS-R	65K4440	0.46	0.45	0.42

(94578)

SS-5 SERIES TIME-DELAY SUBMINIATURE THRU-HOLE FUSES



Approvals:

- UL: E146895 (400mA thru 6.3A)
- CSA: LR98127 (400mA thru 5A)
- VDE: 122052 (500mA thru 4A, 6.3A)
- SEMKO: 603891 (630mA thru 4A)
- CQC: 05012014933 (630mA thru 4A)
- METI: 32-1966 (500mA thru 5A)

SS-5 series radial lead fast-acting thru-hole fuses are internationally accepted for primary and secondary overcurrent protection. Designed to UL 248-14. Can be placed directly into PC board or plugged into mfg part no. PCS fuseholder; order separately below. Solderability: EIA-186-9E, Method 9. High frequency vibration: MIL-STD-202F, Method 201A. Pins are tin plated copper. Compatible with leaded and lead-free reflow and wave solder.

BULK PACK — 200 PER BAG

Mfg. Part No.	Current Rating	Voltage Rating (VAC)	Interrupting Current (A)*	Stock No.	Price Each		
					1-99	100-249	250-499
● SS-5-500MA-BK	400mA-6.3A	250	35	77K7925	0.46	0.44	0.42
● SS-5-630MA-BK	400mA-6.3A	250	35	77K7927	0.46	0.44	0.42
● SS-5-800MA-BK	400mA-6.3A	250	35	77K7929	0.46	0.44	0.42
● SS-5-1.25A-BK	400mA-6.3A	250	35	77K7907	0.46	0.44	0.42
● SS-5-1.6A-BK	400mA-6.3A	250	35	77K7909	0.46	0.44	0.42
● SS-5-1A-BK	400mA-6.3A	250	35	77K7911	0.46	0.44	0.42
● SS-5-2A-BK	400mA-6.3A	250	35	77K7915	0.46	0.44	0.42
● SS-5-2.5A-BK	400mA-6.3A	250	35	77K7913	0.46	0.44	0.42
● SS-5-3.15A-BK	400mA-6.3A	250	35	77K7917	0.46	0.44	0.42
● SS-5-4A-BK	400mA-6.3A	250	40	77K7919	0.46	0.44	0.42
● SS-5-5A-BK	400mA-6.3A	250	50	77K7923	0.46	0.44	0.42

AMMO PACK TAPED — 1,000 PER BOX

Mfg. Part No.	Current Rating	Voltage Rating (VAC)	Interrupting Current (A)*	Stock No.	Price 1-99
● SS-5-500MA-AP	400mA-6.3A	250	35	77K7924	0.40
● SS-5-630MA-AP	400mA-6.3A	250	35	77K7926	0.40
● SS-5-800MA-AP	400mA-6.3A	250	35	77K7928	0.40
● SS-5-1.25A-AP	400mA-6.3A	250	35	77K7906	0.40
● SS-5-1.6A-AP	400mA-6.3A	250	35	77K7908	0.40
● SS-5-1A-AP	400mA-6.3A	250	35	77K7910	0.40
● SS-5-2A-AP	400mA-6.3A	250	35	77K7914	0.40
● SS-5-2.5A-AP	400mA-6.3A	250	35	77K7912	0.40
● SS-5-3.15A-AP	400mA-6.3A	250	35	77K7916	0.40
● SS-5-4A-AP	400mA-6.3A	250	40	77K7918	0.40
● SS-5-5A-AP	400mA-6.3A	250	50	77K7922	0.40

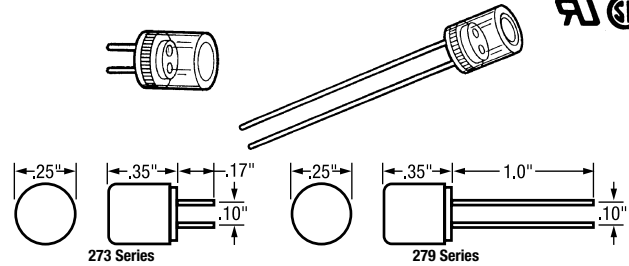
*At rated voltage

FUSEHOLDER

Mfg. Part No.	Stock No.	Price Each		
		1-9	10-49	50-99
● PCS-R	65K4440	0.46	0.45	0.42

(94579)

273 AND 279 SERIES MICRO™ FUSE VERY FAST-ACTING RADIAL LEAD FUSES



Subminiature fuses offer low-resistance and high-reliability for space-critical applications. Transparent cap for fuse status indication. Blow time: 100%, 4-hour minimum; 200%, 5-second maximum. Interrupting rating: 10,000A @ 125VAC/VDC. 273 series plug-in fuses have 0.170" (4.32) leads. 279 series have 1" (25.4) radial leads. Both series available in metal housing. Operating temperature: 273 series: -55°C to +85°C; 279 series: -55°C to +125°C. Order fuse holders separately on pages 1307-1308. Amp and voltage ratings are stamped on cap. Solder-coated copper leads; 0.025" dia. UL recognized, CSA certified.

273 SERIES "PLUG-IN" STYLE FUSES

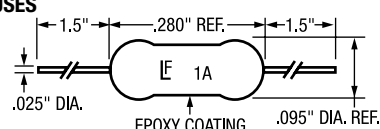
Mfg. Part No.	Current Rating (A)	Voltage Rating (V)	Stock No.	Price Each		
				1-9	10-99	100-249
273.002	1/500	125	28F060	23.45	20.50	18.69
273.005	1/200	125	28F061	23.56	20.39	18.12
273.010	1/100	125	28F062	18.76	16.40	14.95
273.031	1/32	125	28F064	18.76	16.40	14.95
● 273.050	1/20	125	28F065	3.26	2.85	2.60
● 273.062	1/16	125	28F066	4.99	4.37	3.98
● 273.100	1/10	125	28F067	3.22	2.82	2.57
● 273.125	1/8	125	28F068	3.22	2.82	2.57
● 273.200	3/10	125	28F069	4.99	4.37	3.98
● 273.250	1/4	125	28F070	3.22	2.82	2.57
● 273.300	3/10	125	28F071	3.22	2.82	2.57
● 273.400	4/10	125	28F072	3.22	2.82	2.57
● 273.500	1/2	125	28F073	4.04	3.50	3.11
● 273.600	5/10	125	28F074	4.99	4.37	3.98
● 273.700	7/10	125	28F075	6.27	5.43	4.83
● 273.750	3/4	125	28F125	3.26	2.85	2.60
● 273.800	9/10	125	28F076	6.27	5.43	4.83
● 273001	1	125	28F077	4.04	3.50	3.11
● 27301.5	1 1/2	125	28F078	3.22	2.82	2.57
● 273002	2	125	28F079	4.04	3.50	3.11
● 273003	3	125	28F080	4.04	3.50	3.11
● 273004	4	125	28F081	4.04	3.50	3.11
● 273005	5	125	28F082	3.22	2.82	2.57

279 SERIES RADIAL-LEAD FUSES

● 279.100	1/10	125	28F090	7.78	6.73	5.99
● 279.200	3/10	125	28F092	7.78	6.73	5.99
● 279.250	1/4	125	28F093	7.78	6.73	5.99
● 279001	1	125	28F100	7.78	6.73	5.99
● 279002	2	125	28F102	7.78	6.73	5.99

(9177)

251 SERIES PICO® II VERY FAST-ACTING AXIAL LEAD FUSES



251 series PICO® II very fast-acting axial lead fuses is designed to meet an extensive array of performance characteristics in a space-saving subminiature package. Interrupting rating: 300A at rated voltage VDC, 50A at rated voltage VAC. Available in rating of .0625 to 15A. Body material: encapsulated, epoxy-coated. Packaging tape and reel per EIA-296; suffix MRT1 1000 per reel. RoHS compliant, UL recognized, CSA certified.

Mfg. Part No.	Current Rating	Voltage Rating (V)	Tape Cut		Tape & Reel		
			Stock No.	Price Each	Stock No.	Reel Qty.	Price Each
● R251.062T1L	62.5mA	125	12J2322	0.82 0.78	77J9987	1000	0.54
● R251.125T1L	125mA	125	12J2323	0.52 0.49	77J9988	1000	0.34
● R251.200T1L	200mA	125	12J2324	0.52 0.49	77J9989	1000	0.34
● R251.250T1L	250mA	125	12J2325	0.52 0.49	77J9990	1000	0.34
● R251.375T1L	375mA	125	12J2326	0.52 0.49	77J9991	1000	0.34
● R251.500T1L	500mA	125	12J2327	0.38 0.36	77J9992	1000	0.26
● R251.630T1L	630mA	125	12J2328	0.38 0.36	77J9993	1000	0.26
● R251.750T1L	750mA	125	12J2330	0.38 0.36	77J9994	1000	0.26

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CIRCUIT PROTECTION

● Indicates RoHS Compliant

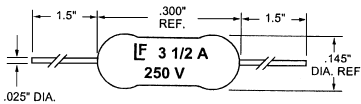
AXIAL LEAD FUSES

251 SERIES PICO® II VERY FAST-ACTING AXIAL LEAD FUSES (CONT.)

Mfg. Part No.	Current Rating	Voltage Rating (V)	Tape Cut			Tape & Reel		
			Stock No.	Price Each		Stock No.	Reel Qty.	Price Each
● R251001T1L	1A	125	12J2331	0.38	0.36	77J9995	1000	0.26
● R2511.25T1L	1.25A	125	12J2348	0.38	0.36	78J0009	1000	0.26
● R25101.5T1L	1.5A	125	12J2337	0.38	0.36	78J0002	1000	0.26
● R251002T1L	2A	125	12J2332	0.38	0.36	77J9996	1000	0.26
● R25102.5T1L	2.5A	125	12J2343	0.38	0.36	78J0006	1000	0.26
● R251003T1L	3A	125	12J2333	0.38	0.36	77J9997	1000	0.26
● R25103.5T1L	3.5A	125	12J2346	0.38	0.36	78J0007	1000	0.26
● R251004T1L	4A	125	12J2334	0.38	0.36	77J9998	1000	0.26
● R251005T1L	5A	125	12J2335	0.38	0.36	77J9999	1000	0.26
● R251007T1L	7A	125	12J2336	0.38	0.36	78J0001	1000	0.26
● R251010T1L	10A	125	12J2339	0.38	0.36	78J0003	1000	0.26
● R251012T1L	12A	32	12J2340	0.52	0.49	78J0004	1000	0.34
● R251015T1L	15A	32	12J2341	0.52	0.49	78J0005	1000	0.34

(85682)

263 SERIES PICO® II 250 VOLT VERY FAST-ACTING AXIAL LEAD FUSES



263 series PICO® II 250 volt very fast-acting fuse is designed to achieve a 250 volt rating in a small package. Interrupting rating: 50A at rated voltage 250VAC. Available in rating of 62mA to 5A. Body material: encapsulated, epoxy-coated. Packaging tape and reel per EIA-296; suffix T1 3000 per reel. RoHS compliant. UL recognized, CSA certified.

Mfg. Part No.	Current Rating	Voltage Rating (V)	Tape Cut			Tape & Reel		
			Stock No.	Price Each		Stock No.	Reel Qty.	Price Each
● 263.062L	62mA	250	12J4255	2.16	1.99	12J4256	3000	1.28
● 263.125L	125mA	250	12J4257	1.72	1.59	12J4258	3000	1.03
● 263.250L	250mA	250	12J4259	1.72	1.59	12J4260	3000	1.03
● 263.375L	375mA	250	12J4261	1.72	1.59	12J4262	3000	1.03
● 263.500L	500mA	250	12J4263	1.72	1.59	12J4264	3000	1.03
● 263.750L	750mA	250	12J4265	1.42	1.31	12J4266	3000	0.85
● 263001L	1A	250	12J4267	1.42	1.31	12J4268	3000	0.85
● 26301.5L	1.5A	250	12J4278	1.42	1.31	12J4279	3000	0.85
● 263002L	2A	250	12J4269	1.42	1.31	12J4270	3000	0.85
● 26302.5L	2.5A	250	12J4280	1.42	1.31	12J4281	3000	0.85
● 263003L	3A	250	12J4271	1.42	1.31	12J4272	3000	0.85
● 26303.5L	3.5A	250	12J4282	1.42	1.31	12J4283	3000	0.85
● 263004L	4A	250	12J4273	1.42	1.31	12J4274	3000	0.85
● 263005L	5A	250	12J4275	1.42	1.31	12J4277	3000	0.85

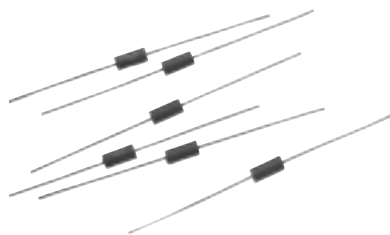
(85683)

MCRW SERIES FAST-ACTING, WIRE-IN-AIR SUBMINIATURE FUSES



- Axial leaded
- Fast-acting, wire-in-air design
- Tin-lead plated copper lead wires
- High temperature epoxy plastic body, UL 94 V0
- Interrupt rating: 50A at 125VAC

Shock resistance: MIL-STD-202, Method 213, Test Condition 1 (Sawtooth). Vibration resistance: MIL-STD-202, Method 201 (10-55Hz x 3 axis/ no load). Moisture resistance: MIL-STD-202F, Method 106. Soldering heat resistance: 260°C, 10 sec. per IEC 68-2-20. Salt spray: MIL-STD-202, Method 101, Test Condition B (48 hours). UL Recognized. CSA Certified. Tape & reel qty: 2500.



Mfg. Part No.	Current Rating	Voltage Rating (V)	Tape Cut			Tape & Reel		
			Stock No.	Price Each		Stock No.	Reel Qty.	Price Each
● MCRW100MA	100mA	125	96C9918	0.59	0.56	54K2946	0.33	
● MCRW125MA	125mA	125	96C9920	0.59	0.56	54K2949	0.39	
● MCRW150MA	150mA	125	96C9922	0.59	0.56	54K2950	0.33	
● MCRW200MA	200mA	125	96C9925	0.59	0.56	54K2952	0.33	
● MCRW250MA	250mA	125	96C9926	0.59	0.56	54K2949	0.33	
● MCRW300MA	300mA	125	96C9928	0.59	0.56	54K2953	0.33	
● MCRW375MA	375mA	125	96C9929	0.59	0.56	54K2954	0.33	
● MCRW500MA	500mA	125	96C9932	0.59	0.56	54K2946	0.33	
● MCRW750MA	750mA	125	96C9934	0.59	0.56	54K2955	0.33	
● MCRW1A	1A	125	96C9916	0.59	0.56	54K2488	0.33	

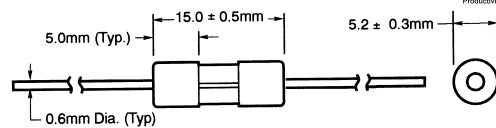
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MCRW SERIES FAST-ACTING, WIRE-IN-AIR SUBMINIATURE FUSES (CONT.)

Mfg. Part No.	Current Rating	Voltage Rating (V)	Tape Cut			Tape & Reel		
			Stock No.	Price Each		Stock No.	Reel Qty.	Price Each
● MCRW1.5A	1.5A	125	96C9915	0.59	0.56	54K2487	0.33	
● MCRW2A	2A	125	96C9924	0.59	0.56	54K2491	0.39	
● MCRW2.5A	2.5A	125	96C9923	0.59	0.56	54K2951	0.33	
● MCRW3A	3A	125	96C9927	0.59	0.56	54K2493	0.33	
● MCRW4A	4A	125	96C9930	0.59	0.56	54K2494	0.33	
● MCRW5A	5A	125	96C9931	0.59	0.56	54K2495	0.39	
● MCRW7A	7A	125	96C9933	0.59	0.56	54K2497	0.33	
● MCRW10A	10A	125	96C9917	0.59	0.56	54K2489	0.33	
● MCRW12A	12A	125	96C9919	0.59	0.56	54K2948	0.39	
● MCRW15A	15A	125	96C9921	0.59	0.56	54K2949	0.39	

(85660)

C518 SERIES FAST-ACTING 5 x 15mm GLASS FUSES



- UL Listed
- CSA Certified

Axial leaded, fast-acting. Glass tube, nickel-plated brass endcap construction. Sold in multiples of 5.

Mfg. Part No.	Current Rating	Voltage Rating (AC)	Stock No.	Price Each		
				1-99	100-249	250-499
● C518-100MA-R	100mA	250	48K9436	0.61	0.58	0.56
● C518-125MA-R	125mA	250	48K9437	0.61	0.58	0.56
● C518-250MA-R	250mA	250	48K9440	0.61	0.58	0.56
● C518-375MA-R	375mA	250	48K9443	0.61	0.58	0.56
● C518-500MA-R	500mA	250	48K9446	0.55	0.53	0.50
● C518-750MA-R	750mA	250	48K9447	0.55	0.53	0.50
● C518-2-R	2A	250	48K9439	0.55	0.52	0.50
● C518-2.5-R	2.5A	250	48K9438	0.55	0.52	0.50
● C518-3-R	3A	250	48K9442	0.55	0.52	0.50
● C518-3.5-R	3.5A	250	48K9441	0.55	0.52	0.50
● C518-4-R	4A	250	48K9444	0.55	0.52	0.50
● C518-5-R	5A	250	48K9445	0.55	0.52	0.50

(18628)

471 SERIES PICO® II TIME LAG FUSES



471 series PICO® II time lag fuses are designed for applications that require moderate inrush withstand. Interrupting rating: 50A at rated voltage 125VAC/VDC. Body material: encapsulated, epoxy-coated. Available ratings: .50 to 5A. UL recognized, CSA certified. Order 281 series "push-on" retaining nut chassis mount fuseholders for MCRW and PICO® II fuses separately on pages 1307-1308.

Mfg. Part No.	Current Rating	Voltage Rating (V)	Tape Cut			Tape & Reel		
			Stock No.	Price Each		Stock No.	Reel Qty.	Price Each
● 0471.500L	500mA	125	12J3750	0.80	0.76	54K2396	5000	0.80
● 0471001.L	1A	125	12J3752	0.80	0.76	54K2397	5000	0.80
● 047101.5L	1.5A	125	12J3762	0.80	0.76	54K2402	5000	0.80
● 0471002.L	2A	125	12J3754	0.80	0.76	54K2398	5000	0.80
● 047102.5L	2.5A	125	12J3764	0.80	0.76	54K2403	5000	0.80
● 0471003.L	3A	125	12J3756	0.80	0.76	54K2399	5000	0.80
● 047103.5L	3.5A	125	12J3766	0.80	0.76	54K2404	5000	0.80
● 0471004.L	4A	125	12J3758	0.80	0.76	54K2400	5000	0.80
● 0471005.L	5A	125	12J3760	0.80	0.76	54K2401	5000	0.80

(85696)

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(94635)

AXIAL LEAD FUSES • FUSE PULLERS • ELECTRONIC FERRULE FUSES

473 SERIES PICO® II
SLO-BLO® FUSES

473 series PICO® II Slo-Blo® fuses combines time delay performance characteristics with the proven reliability of a PICO® fuse. Interrupting rating: 50A at rated voltage 125 VAC/VDC. Available ratings: .375 to 7A. Body material: encapsulated, epoxy-coated. Tape & reel packaging per EIA-296. UL recognized, CSA certified. Order 281 series "push-on" retaining nut chassis mount fuseholders for MICRO® and PICO® II fuses separately on pages 1307-1308.

Mfg. Part No.	Current Rating (A)	Voltage Rating (V)	Tape Cut		Tape & Reel		
			Stock No.	Price Each	Stock No.	Reel Qty.	Price Each
● 473.375T1L	375mA	125	53K9083	1.48 1.36	12J4437	1000	0.92
● 473.500T1L	500mA	125	53K9084	1.48 1.36	12J4441	1000	0.92
● 473.750T1L	750mA	125	53K9085	1.48 1.36	12J4445	1000	0.92
● 473001T1L	1A	125	53K9086	1.48 1.36	12J4448	1000	0.92
● 47301.5T1L	1.5A	125	53K9092	1.48 1.36	12J4469	1000	0.92
● 473002T1L	2A	125	53K9087	1.48 1.36	12J4452	1000	0.92
● 4732.25T1L	2.25A	125	53K9095	1.48 1.36	12J4481	1000	0.92
● 47302.5T1L	2.5A	125	53K9093	1.48 1.36	12J4473	1000	0.92
● 473003T1L	3A	125	53K9088	1.48 1.36	12J4456	1000	0.92
● 47303.5T1L	3.5A	125	53K9094	1.48 1.36	12J4477	1000	0.92
● 473004T1L	4A	125	53K9089	1.48 1.36	12J4460	1000	0.92
● 473005T1L	5A	125	53K9090	1.48 1.36	12J4463	1000	0.92
● 473007T1L	7A	125	53K9091	1.48 1.36	12J4466	1000	0.92

(86697)

FUSE PULLERS

Fully-insulated, reinforced, high-dielectric plastic. Use on fuses up to 100A, 250V, and 60A. Test capacity from 100 to 600V, AC or DC. Color: yellow.



Mfg. Part No.	Description	Stock No.	Price 1-4
2040	Midget for Small Fuses 5/32" to 1/2" Dia.; 5" Long	92N3778	5.74
2041	Pocket for 0 to 100A, 250V, and 600V; 7 1/2" Long	92N3779	10.79

(16642)

AGC SERIES FAST-ACTING 1/4 x 1 1/4" GLASS FUSES



- UL Listed (1/500-10A)
- UL Recognized (11-30A)
- CSA Certified



Fast-acting. Glass tube, nickel-plated brass endcap construction. AGC-V series with 0.032" x 1.5" copper tinned leads available; go online or call. Sold in multiples of 5.

Mfg. Part No.	Current Rating (A)	Voltage Rating (AC)	Stock No.	Price Each		
				1-99	100-499	500-999
● AGC-1/16-R	1/16	250	48K9379	1.72	1.43	1.35
● AGC-1/10-R	1/10	250	48K9378	1.72	1.43	1.35
● AGC-1/8-R	1/8	250	48K9382	0.91	0.81	0.74
● AGC-15/100-R	15/100	250	48K9387	1.35	1.12	1.05
● AGC-3/16-R	3/16	250	48K9399	1.35	1.12	1.05
● AGC-2/10-R	2/10	250	48K9392	0.91	0.81	0.74
● AGC-1/4-R	1/4	250	48K9381	0.85	0.76	0.69
● AGC-3/10-R	3/10	250	48K9398	0.85	0.76	0.69
● AGC-3/8-R	3/8	250	48K9401	0.85	0.76	0.69
● AGC-4/10-R	4/10	250	48K9405	1.27	1.13	1.03
● AGC-1/2-R	1/2	250	48K9380	0.39	0.35	0.32
● AGC-6/10-R	6/10	250	48K9411	0.39	0.35	0.32
● AGC-3/4-R	3/4	250	48K9400	0.39	0.35	0.32
● AGC-8/10-R	8/10	250	48K9415	0.39	0.35	0.32
● AGC-1-R	1	250	48K9372	0.24	0.22	0.20
● AGC-1-1/4-R	1 1/4	250	48K9374	0.24	0.22	0.20
● AGC-1-1/2-R	1 1/2	250	48K9373	0.24	0.22	0.20
● AGC-1-6/10-R	1 6/10	250	48K9376	0.24	0.22	0.20
● AGC-1-8/10-R	1 8/10	250	48K9377	0.24	0.22	0.20
● AGC-1-3/4-R	1 3/4	250	48K9375	0.24	0.22	0.20
● AGC-2-R	2	250	48K9389	0.24	0.22	0.20
● AGC-2-1/4-R	2 1/4	250	48K9391	0.20	0.18	0.16
● AGC-2-1/2-R	2 1/2	250	48K9390	0.24	0.22	0.20
● AGC-3-R	3	250	48K9395	0.24	0.22	0.20
● AGC-3-2/10-R	3 2/10	250	48K9397	0.29	0.26	0.24
● AGC-3-1/2-R	3 1/2	250	48K9396	0.24	0.22	0.20
● AGC-4-R	4	250	48K9404	0.38	0.34	0.31
● AGC-5-R	5	250	48K9407	0.38	0.34	0.31
● AGC-6-R	6	250	48K9409	0.38	0.34	0.31
● AGC-6-1/4-R	6 1/4	250	48K9410	0.38	0.34	0.31
● AGC-7-R	7	250	48K9412	0.38	0.34	0.31
● AGC-7-1/2-R	7 1/2	250	48K9413	0.45	0.40	0.36

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AGC SERIES FAST-ACTING 1/4 x 1 1/4" GLASS FUSES (CONT.)

Mfg. Part No.	Current Rating (A)	Voltage Rating (AC)	Stock No.	Price Each		
				1-99	100-499	500-999
● AGC-8-R	8	250	48K9414	0.45	0.40	0.36
● AGC-9-R	9	250	48K9416	0.45	0.40	0.36
● AGC-10-R	10	250	48K9383	0.45	0.40	0.36
● AGC-12-R	12	32	48K9384	0.27	0.24	0.22
● AGC-14-R	14	32	48K9385	0.27	0.24	0.22
● AGC-15-R	15	32	48K9386	0.27	0.24	0.22
● AGC-20-R	20	32	48K9393	0.27	0.24	0.22
● AGC-25-R	25	32	48K9394	0.27	0.24	0.22
● AGC-30-R	30	32	48K9402	0.27	0.24	0.22

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AGX SERIES FAST-ACTING 1/4 x 1" GLASS FUSES



AGX series glass fuses rated 250V, UL listed, CSA certified; except * denotes 125V UL listed and † denotes 32V UL listed. Sold in multiples of 5.



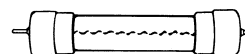
Mfg. Part No.	Amps	Stock No.	Price Each		
			1-24	25-49	50-99
AGX-1/200	1/200	07J9972	13.49	12.27	11.09
AGX-1/100	1/100	07J9971	10.80	9.82	8.88
AGX-1/32	1/32	07J9973	9.27	8.43	7.62
AGX-1/16	1/16	90B5282	1.93	1.76	1.59
AGX-1/10	1/10	96C9066	1.49	1.36	1.23
AGX-1/8	1/8	96C9069	1.49	1.36	1.23
AGX-1/4	1/4	96C9068	0.89	0.81	0.73
AGX-3/10	3/10	01C1282	1.79	1.62	1.47
AGX-3/8	3/8	96C9070	0.89	0.81	0.73
AGX-4/10	4/10	96C9072	0.89	0.81	0.73
AGX-1/2	1/2	96C9067	0.75	0.68	0.61
AGX-1	1	27F987	0.43	0.39	0.35
AGX-1-1/4	1 1/4	01C1281	1.10	1.00	0.91
AGX-1 1/2	1 1/2	27F988	1.21	1.10	0.99
AGX-2	2	27F989	0.43	0.39	0.35
AGX-3*	3	94F2187	0.43	0.39	0.35
AGX-5*	5	28F049	0.32	0.29	0.26
AGX-7*	7	07J9977	0.43	0.40	0.36
AGX-8*	8	02J8554	0.32	0.29	0.26
AGX-15†	15	02J8547	0.30	0.28	0.25
AGX-35†	35	01C1283	1.36	1.24	1.12
AGX-50†	50	01C1284	1.36	1.24	1.12

(2326)

318P SERIES 3AG FAST-ACTING AXIAL LEAD FUSES



- UL listed (8 - 30A)
- CSA certified (8 - 30A)
- CE compliant



318P series 3AG fast-acting axial lead fuses meets a broad range of circuit protection applications. Glass body. Available ratings: 0.032 to 30A. Interrupting ratings: 10000A at 125 VAC, 35A at 250 VAC.

Mfg. Part No.	Current Rating	Voltage Rating (V)	Stock No.	Price Each		
				1-9	10-49	50-99
● 318.062P	62mA	250	26K8565	1.10	1.04	1.00
● 318.100P	100mA	250	26K8566	1.10	1.04	1.00
● 318.125P	125mA	250	26K8568	1.10	1.04	1.00
● 318.150P	150mA	250	26K8569	1.10	1.04	1.00
● 318.175P	175mA	250	26K8570	1.10	1.04	1.00
● 318.187P	187mA	250	26K8571	1.10	1.04	1.00
● 318.200P	200mA	250	26K8572	1.10	1.04	1.00
● 318.250P	250mA	250	26K8573	1.10	1.04	1.00
● 318.300P	300mA	250	26K8574	1.10	1.04	1.00
● 318.375P	375mA	250	26K8575	0.49	0.47	0.44
● 318.500P	500mA	250	26K8576	0.49	0.47	0.44
● 318.600P	600mA	250	26K8577	0.49	0.47	0.44
● 318.750P	750mA	250	26K8578	0.49	0.47	0.44
● 318001P	1A	250	26K8579	0.49	0.47	0.44
● 3181.25P	1.25A	250	26K8592	0.49	0.47	0.44
● 31801.5P	1.5A	250	26K8587	0.49	0.47	0.44
● 31801.6P	1.6A	250	26K8588	0.49	0.47	0.44
● 3181.75P	1.75A	250	26K8593	0.49	0.47	0.44
● 31801.8P	1.8A	250	26K8589	0.49	0.47	0.44
● 318002P	2A	250	26K8580	0.49	0.47	0.44

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ELECTRONIC FERRULE FUSES

318P SERIES 3AG FAST-ACTING AXIAL LEAD FUSES (CONT.)

Mfg. Part No.	Current Rating	Voltage Rating (V)	Stock No.	Price Each		
				1-9	10-49	50-99
● 3182.25P	2.25A	250	26K8594	0.49	0.47	0.44
● 31802.5P	2.5A	250	26K8591	0.49	0.47	0.44
● 318003P	3A	250	26K8581	0.49	0.47	0.44
● 318004P	4A	250	26K8582	0.49	0.47	0.44
● 318005P	5A	250	26K8583	0.49	0.47	0.44
● 318006P	6A	250	26K8584	0.49	0.47	0.44
● 318007P	7A	250	26K8585	0.49	0.47	0.44
● 318008P	8A	250	26K8586	0.49	0.47	0.44
● 318010P	10A	250	26K8590	0.49	0.47	0.44

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312P SERIES 3AG FAST-ACTING CARTRIDGE FUSES



- UL listed (8 - 30A)
- CSA certified (8 - 30A)
- CE compliant



312P series 3AG fast-acting cartridge fuses meet a broad range of circuit protection applications. Glass body. Available ratings: 0.032 to 30A. Interrupting ratings: 10000A at 125 VAC, 35A at 250 VAC.

Mfg. Part No.	Current Rating	Voltage Rating (V)	Stock No.	Price Each		
				1-9	10-99	100-249
● 312.062P	62.5mA	250	26K8431	1.38	1.20	1.12
● 312.100P	100mA	250	26K8432	1.38	1.20	1.12
● 312.125P	125mA	250	26K8433	0.80	0.69	0.65
● 312.150P	150mA	250	26K8434	0.80	0.69	0.65
● 312.175P	175mA	250	26K8435	0.80	0.69	0.65
● 312.187P	187mA	250	26K8436	0.80	0.69	0.65
● 312.200P	200mA	250	26K8437	0.80	0.69	0.65
● 312.250P	250mA	250	26K8438	0.80	0.69	0.65
● 312.300P	300mA	250	26K8439	0.80	0.69	0.65
● 312.375P	375mA	250	26K8440	0.24	0.21	0.19
● 312.500P	500mA	250	26K8441	0.24	0.21	0.19
● 312.600P	600mA	250	26K8442	0.24	0.21	0.19
● 312.750P	750mA	250	26K8443	0.24	0.21	0.19
● 312001P	1A	250	26K8444	0.24	0.21	0.19
● 3121.25P	1.25A	250	26K8457	0.24	0.21	0.19
● 31201.5P	1.5A	250	26K8452	0.24	0.21	0.19
● 31201.6P	1.6A	250	26K8453	0.24	0.21	0.19
● 3121.75P	1.75A	250	26K8458	0.24	0.21	0.19
● 31201.8P	1.8A	250	26K8454	0.24	0.21	0.19
● 312002P	2A	250	26K8445	0.24	0.21	0.19
● 3122.25P	2.25A	250	26K8459	0.24	0.21	0.19
● 31202.5P	2.5A	250	26K8456	0.24	0.21	0.19
● 312003P	3A	250	26K8446	0.24	0.21	0.19
● 312004P	4A	250	26K8447	0.24	0.21	0.19
● 312005P	5A	250	26K8448	0.24	0.21	0.19
● 312006P	6A	250	26K8449	0.24	0.21	0.19
● 312007P	7A	250	26K8450	0.24	0.21	0.19
● 312008P	8A	250	26K8451	0.24	0.21	0.19
● 312010P	10A	250	26K8455	0.24	0.21	0.19

(85684)

224P AND 225P SERIES 2AG FAST-ACTING AXIAL AND CARTRIDGE TYPE FUSES



- UL Recognized
- CSA Certified
- CE Compliant



Same performance as standard 3AG in 1/8 space. Glass body material. Amp rating at 110%, 4 hour min.; 135%, 1 hour max.; 200%, 1 second max. Interrupting ratings: 10,000A @ 125VAC (1/8-10A). 35A @ 250VAC (1/8-1A). 100A @ 250VAC (1.5-3.5A). Suffix T1P indicates tape and reel packaging. RoHS compliant.

224P SERIES AXIAL LEAD FUSES

Mfg. Part No.	Current Rating	Voltage Rating (V)	Stock No.	Price Each			
				1-24	25-49	50-99	100-249
● 224.100P	100mA	250	26K8085	2.79	2.57	2.36	2.17
● 224.125P	125mA	250	26K8089	0.79	0.72	0.67	0.61
● 224.250P	250mA	250	26K8093	0.77	0.71	0.66	0.60
● 224.375P	375mA	250	26K8097	0.59	0.55	0.50	0.46
● 224.500P	500mA	250	26K8101	0.59	0.55	0.50	0.46
● 224.750P	750mA	250	26K8105	0.59	0.55	0.50	0.46

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224P AND 225P SERIES 2AG FAST-ACTING AXIAL AND CARTRIDGE TYPE FUSES (CONT.)

Mfg. Part No.	Current Rating	Voltage Rating (V)	Stock No.	Price Each			
				1-24	25-49	50-99	100-249
● 224001P	1A	250	26K8109	0.59	0.55	0.50	0.46
● 22401.5P	1.5A	250	26K8141	0.59	0.55	0.50	0.46
● 224002P	2A	250	26K8113	0.59	0.55	0.50	0.46
● 22402.5P	2.5A	250	26K8149	0.59	0.55	0.50	0.46
● 224003P	3A	250	26K8117	0.59	0.55	0.50	0.46
● 22403.5P	3.5A	250	26K8153	0.59	0.55	0.50	0.46

225P SERIES CARTRIDGE FUSES

● 225.100P	100mA	250	26K8157	2.66	2.45	2.25	2.07
● 225.125P	125mA	250	26K8158	0.58	0.54	0.49	0.46
● 225.250P	250mA	250	26K8159	0.58	0.54	0.49	0.46
● 225.375P	375mA	250	26K8160	0.40	0.37	0.34	0.31
● 225.500P	500mA	250	26K8161	0.40	0.37	0.34	0.31
● 225.750P	750mA	250	26K8162	0.40	0.37	0.34	0.31
● 225001P	1A	250	26K8163	0.40	0.37	0.34	0.31
● 22501.5P	1.5A	250	26K8172	0.40	0.37	0.34	0.31
● 225002P	2A	250	26K8164	0.40	0.37	0.34	0.31
● 22502.5P	2.5A	250	26K8174	0.40	0.37	0.34	0.31
● 225003P	3A	250	26K8165	0.40	0.37	0.34	0.31
● 22503.5P	3.5A	250	26K8175	0.40	0.37	0.34	0.31
● 225006P	6A	125	26K8169	0.36	0.33	0.30	0.28
● 225010P	10A	125	26K8173	0.40	0.37	0.34	0.31

(85673)

C520 SERIES FAST-ACTING 5 x 15mm GLASS FUSES



- UL Listed
- CSA Certified

Fast-acting. Glass tube, nickel-plated brass endcap construction. Sold in multiples of 5.



Mfg. Part No.	Current Rating	Voltage Rating (AC)	Stock No.	Price Each		
				1-99	100-249	250-499
● C520-100MA-R	100mA	250	48K9467	0.48	0.45	0.43
● C520-125MA-R	125mA	250	48K9468	0.48	0.45	0.43
● C520-250MA-R	250mA	250	48K9471	0.48	0.45	0.43
● C520-375MA-R	375mA	250	48K9474	0.48	0.45	0.43
● C520-500MA-R	500mA	250	48K9477	0.33	0.31	0.30
● C520-750MA-R	750mA	250	48K9478	0.33	0.31	0.30
● C520-2-R	2A	250	48K9470	0.33	0.31	0.30
● C520-2.5-R	2.5A	250	48K9469	0.33	0.31	0.30
● C520-3-R	3A	250	48K9473	0.33	0.31	0.30
● C520-3.5-R	3.5A	250	48K9472	0.33	0.31	0.30
● C520-4-R	4A	250	48K9475	0.29	0.27	0.26
● C520-5-R	5A	250	48K9476	0.33	0.31	0.30

(16639)

S500 SERIES FAST-ACTING 5 x 20mm GLASS FUSES



- Designed to IEC 60127-2 (32mA-6.3A)
- UL Recognized (160mA-10A)
- Semko Approved (160mA-400mA and 800mA-10A)
- VDE Approved (160mA-10A)

Fast-acting, low-breaking capacity. Glass tube, nickel-plated brass endcap construction. S500-V series with 0.032" x 1.5" copper tinned axial leads available; go online or call.

Mfg. Part No.	Current Rating	Voltage Rating (AC)	Stock No.	Price Each		
				1-49	50-99	100-249
● S500-32MA-R	32mA	250	48K9866	0.95	0.91	0.86
● S500-40MA-R	40mA	250	48K9868	0.95	0.91	0.86
● S500-50MA-R	50mA	250	48K9871	0.95	0.91	0.86
● S500-63MA-R	63mA	250	48K9874	0.95	0.91	0.86
● S500-80MA-R	80mA	250	48K9877	0.95	0.91	0.86
● S500-100MA-R	100mA	250	48K9857	0.90	0.86	0.82
● S500-125MA-R	125mA	250	48K9858	0.95	0.91	0.86
● S500-160MA-R	160mA	250	48K9859	0.54	0.52	0.49
● S500-200MA-R	200mA	250	48K9862	0.51	0.49	0.47
● S500-250MA-R	250mA	250	48K9863	0.54	0.52	0.49
● S500-315MA-R	315mA	250	48K9865	0.54	0.52	0.49
● S500-400MA-R	400mA	250	48K9869	0.54	0.52	0.49
● S500-500MA-R	500mA	250	48K9872	0.17	0.16	0.15
● S500-630MA-R	630mA	250	48K9875	0.17	0.16	0.15

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ELECTRONIC FERRULE FUSES

S500 SERIES FAST-ACTING 5 x 20mm GLASS FUSES (CONT.)

Mfg. Part No.	Current Rating	Voltage Rating (AC)	Stock No.	Price Each		
				1-49	50-99	100-249
● S500-800MA-R	800mA	250	48K9878	0.17	0.16	0.15
● S500-1-R	1A	250	48K9855	0.17	0.16	0.15
● S500-1.25-R	1.25A	250	48K9853	0.16	0.15	0.15
● S500-1.6-R	1.6A	250	48K9854	0.17	0.16	0.15
● S500-2-R	2A	250	48K9861	0.17	0.16	0.15
● S500-2.5-R	2.5A	250	48K9860	0.17	0.16	0.15
● S500-3.15-R	3.15A	250	48K9864	0.17	0.16	0.15
● S500-4-R	4A	250	48K9867	0.17	0.16	0.15
● S500-5-R	5A	250	48K9870	0.17	0.16	0.15
● S500-6.3-R	6.3A	250	48K9873	0.17	0.16	0.15
● S500-8-R	8A	250	48K9876	0.62	0.59	0.56
● S500-10A-R	10A	250	48K9856	0.62	0.59	0.56

(85657)

GMA SERIES FAST-ACTING 5 x 20mm GLASS FUSES



- UL Listed (63mA-6A)
- UL Recognized (7A-15A)
- CSA Certified (63mA-6A)



Fast-acting, low-breaking capacity. Glass tube, nickel-plated brass endcap construction. **GMA-V series** with 0.032: x 1.5" copper tinned axial leads available; *go online or call*. **Sold in multiples of 5.**

Mfg. Part No.	Current Rating	Voltage Rating (AC)	Stock No.	Price Each			
				1-9	10-49	50-99	100-249
● GMA-63MA-R	63mA	250	48K9542	1.42	1.35	1.07	0.95
● GMA-100MA-R	100mA	250	48K9525	0.67	0.64	0.50	0.45
● GMA-125MA-R	125mA	250	48K9526	0.67	0.64	0.50	0.45
● GMA-200MA-R	200mA	250	48K9530	0.67	0.64	0.50	0.45
● GMA-250MA-R	250mA	250	48K9531	0.67	0.64	0.50	0.45
● GMA-300MA-R	300mA	250	48K9535	0.67	0.64	0.50	0.45
● GMA-315MA-R	315mA	250	48K9536	0.67	0.64	0.50	0.45
● GMA-500MA-R	500mA	250	48K9539	0.36	0.34	0.28	0.24
● GMA-600MA-R	600mA	250	48K9541	0.36	0.34	0.28	0.24
● GMA-750MA-R	750mA	250	48K9544	0.36	0.34	0.28	0.24
● GMA-800MA-R	800mA	250	48K9546	0.36	0.34	0.28	0.24
● GMA-1-R	1A	250	48K9523	0.30	0.28	0.23	0.20
● GMA-1.25-R	1.25A	250	48K9520	0.30	0.28	0.23	0.20
● GMA-1.5-R	1.5A	250	48K9521	0.30	0.28	0.23	0.20
● GMA-1.6-R	1.6A	250	48K9522	0.30	0.28	0.23	0.20
● GMA-2-R	2A	250	48K9529	0.30	0.28	0.23	0.20
● GMA-2.5-R	2.5A	250	48K9528	0.30	0.28	0.23	0.20
● GMA-3-R	3A	250	50K8729	1.63	1.55	1.23	1.09
● GMA-3MA-R	3A	250	48K9534	0.30	0.28	0.23	0.20
● GMA-3.15-R	3.15A	125	48K9532	0.30	0.28	0.23	0.20
● GMA-3.5-R	3.5A	125	48K9533	0.30	0.28	0.23	0.20
● GMA-4-R	4A	125	48K9537	0.30	0.28	0.23	0.20
● GMA-5-R	5A	125	48K9538	0.30	0.28	0.23	0.20
● GMA-6-R	6A	125	48K9540	0.30	0.28	0.23	0.20
● GMA-7-R	7A	125	48K9543	0.30	0.28	0.23	0.20
● GMA-8-R	8A	125	48K9545	0.30	0.28	0.23	0.20
● GMA-10-R	10A	125	48K9524	0.30	0.28	0.23	0.20
● GMA-15-R	15A	125	48K9527	0.30	0.28	0.23	0.20

(2317)

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(94660)

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217 SERIES 5 x 20mm FAST-ACTING CARTRIDGE TYPE FUSES



- UL Recognized (32mA - 6.3A)
- CSA Certified (32mA - 6.3A)
- CE Compliant (50mA - 15A)
- British BSI Licence (400mA - 6.3A)
- Swedish File (32mA - 6.3A)

- **217 series** fast-acting glass fuses with 35A interrupting rating. Designed to international IEC standards for use globally. Meets the IEC 60127-2, Sheet 2 specifications for fast-acting fuses. Axial lead formats also available; *go online or call*. Available in rating of 0.032 to 15A. *Go on line or call for details.* RoHS compliant. SEMKO approved through 6.3 amps.

Mfg. Part No.	Current Rating	Volts	Stock No.	Price Each			
				1-9	10-99	100-249	250-499
● 217.032XP	32mA	250	26K7972	1.48	1.38	1.28	1.18
● 217.040XP	40mA	250	26K7973	1.48	1.38	1.28	1.18
● 217.050XP	50mA	250	26K7975	1.48	1.38	1.28	1.18
● 217.063XP	63mA	250	26K7977	1.48	1.38	1.28	1.18
● 217.080XP	80mA	250	26K7979	0.87	0.81	0.75	0.69
● 217.100XP	100mA	250	26K7981	0.87	0.81	0.75	0.69
● 217.125XP	125mA	250	26K7983	0.87	0.81	0.75	0.69
● 217.160XP	160mA	250	26K7985	0.87	0.81	0.75	0.69
● 217.200XP	200mA	250	26K7987	0.87	0.81	0.75	0.69
● 217.250XP	250mA	250	26K7989	0.87	0.81	0.75	0.69
● 217.315XP	315mA	250	26K7991	0.87	0.81	0.75	0.69
● 217.400XP	400mA	250	26K7993	0.27	0.25	0.23	0.21
● 217.500XP	500mA	250	26K7995	0.27	0.25	0.23	0.21
● 217.630XP	630mA	250	26K7997	0.27	0.25	0.23	0.21
● 217.800XP	800mA	250	26K7999	0.27	0.25	0.23	0.21
● 217001.XP	1A	250	26K8001	0.27	0.25	0.23	0.21
● 2171.25XP	1.25A	250	26K8022	0.27	0.25	0.23	0.21
● 21701.6XP	1.6A	250	26K8011	0.27	0.25	0.23	0.21
● 217002.XP	2A	250	26K8003	0.27	0.25	0.23	0.21
● 21702.5XP	2.5A	250	26K8018	0.27	0.25	0.23	0.21
● 2173.15XP	3.15A	250	26K8024	0.27	0.25	0.23	0.21
● 217004.XP	4A	250	26K8005	0.27	0.25	0.23	0.21
● 217005.XP	5A	250	26K8007	0.27	0.25	0.23	0.21
● 21706.3XP	6.3A	250	26K8020	0.27	0.25	0.23	0.21
● 217008.XP	8A	250	26K8009	0.27	0.25	0.23	0.21
● 217010.XP	10A	250	26K8013	0.27	0.25	0.23	0.21
● 217015.XP	15A	250	26K8015	0.27	0.25	0.23	0.21

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235 SERIES 5x20mm FAST-ACTING CARTRIDGE FUSES



- UL listed
- CSA certified
- CE compliant

235 series fast-acting fuses with 10,000A interrupting rating. Glass body material. Designed to UL/ CSA/ ANCE 248 standard. Available ratings: 0.100A to 6A.

Mfg. Part No.	Current Rating	Voltage Rating (V)	Stock No.	Price Each		
				1-9	10-49	50-99
● 235.100XP	100mA	250	26K8354	0.55	0.52	0.49
● 235.125XP	125mA	250	26K8356	0.55	0.52	0.49
● 235.200XP	200mA	250	26K8358	0.55	0.52	0.49
● 235.250XP	250mA	250	26K8360	0.55	0.52	0.49
● 235.300XP	300mA	250	26K8362	0.55	0.52	0.49
● 235.400XP	400mA	250	26K8364	0.55	0.52	0.49
● 235.500XP	500mA	250	26K8366	0.30	0.28	0.27
● 235.600XP	600mA	250	26K8368	0.30	0.28	0.27
● 235.700XP	700mA	250	26K8370	0.30	0.28	0.27
● 235.800XP	800mA	250	26K8372	0.30	0.28	0.27
● 235001.XP	1A	250	26K8374	0.24	0.23	0.22
● 2351.25XP	1.25A	250	26K8390	0.24	0.23	0.22
● 23501.6XP	1.6A	250	26K8386	0.24	0.23	0.22
● 235002.XP	2A	250	26K8376	0.24	0.23	0.22
● 23502.5XP	2.5A	250	26K8388	0.24	0.23	0.22
● 235003.XP	3A	250	26K8378	0.24	0.23	0.22
● 235004.XP	4A	125	26K8380	0.24	0.23	0.22
● 235005.XP	5A	125	26K8382	0.24	0.23	0.22
● 235006.XP	6A	125	26K8384	0.24	0.23	0.22

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CIRCUIT PROTECTION

ELECTRONIC FERRULE FUSES

FSF SERIES 250V 5 x 20mm FUSES

- Low Breaking
- Rated Current: 200mA to 10A
- Time/Current Action: Quick-Acting
- Low Breaking Capacity: 35A Glass
- Rated Voltage: 250V
- Size: 5 x 20mm



Pigtail leads optional. Other ratings available; *go online or call*.

FSF SERIES FAST-ACTING FUSES (LOW-BREAKING)

Mfg. Part No.	Current Rating	Stock No.	Price Each	
			1-49	50-99
● 0034.1513	500mA	88K2038	0.26	0.22
● 0034.1514	630mA	04F973	0.25	0.21
● 0034.1515	800mA	04F974	0.25	0.21
● 0034.1516	1A	88K2039	0.25	0.22
● 0034.1518	1.6A	04F977	0.25	0.21
● 0034.1519	2A	88K2040	0.25	0.22
● 0034.1520	2.5A	04F961	0.25	0.21
● 0034.1521	3.15A	04F962	0.25	0.21
● 0034.1522	4A	88K2041	0.26	0.22
● 0034.1523	5A	04F964	0.25	0.21
● 0034.1524	6.3A	88K2042	0.36	0.32

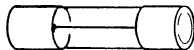
FSF SERIES TIME-DELAY FUSES

● 0034.3105	63mA	90B9822	0.56	0.47
● 0034.3108	125mA	04F967	0.56	0.47
● 0034.3110	200mA	04F951	0.34	0.29
● 0034.3111	250mA	88K2043	0.35	0.31
● 0034.3112	315mA	04F953	0.34	0.29
● 0034.3113	400mA	04F954	0.34	0.29
● 0034.3114	500mA	04F955	0.34	0.29
● 0034.3115	630mA	04F956	0.34	0.29
● 0034.3116	800mA	04F957	0.34	0.29
● 0034.3117	1A	04F958	0.34	0.29
● 0034.3118	1.25A	04F959	0.34	0.29
● 0034.3119	1.6A	93K7610	0.35	0.31
● 0034.3120	2A	04F943	0.34	0.29
● 0034.3121	2.5A	04F944	0.34	0.29
● 0034.3122	3.15A	04F945	0.34	0.29
● 0034.3123	4A	04F946	0.34	0.29
● 0034.3124	5A	88K2044	0.35	0.31
● 0034.3125	6.3A	04F948	0.34	0.29
● 0034.3126	8A	88K2045	0.35	0.31
● 0034.3128	12.5A	22C1088	0.56	0.47
● 0034.3129	16A	50B7028	0.56	0.47
● 0034.3130	20A	51B1053	0.56	0.47

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232 SERIES 5x20mm MEDIUM-ACTING CARTRIDGE FUSES

- CE compliant



232 series medium-acting fuses with 10A interrupting rating. Glass body material. Designed to Japanese standard JIS C6575. Axial lead formats also available; *go online or call*. Available ratings: 1A to 10A.

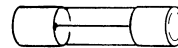
Mfg. Part No.	Current Rating (A)	Voltage Rating (V)	Stock No.	Price Each		
				1-24	25-49	50-99
● 0232001.XP	1	250	26K7703	0.61	0.56	0.52
● 02321.25XP	1.25	250	26K7733	0.61	0.56	0.52
● 023201.6XP	1.6	250	26K7721	0.61	0.56	0.52
● 0232002.XP	2	250	26K7706	0.61	0.56	0.52
● 023202.5XP	2.5	250	26K7727	0.61	0.56	0.52
● 0232003.XP	3	250	26K7709	0.61	0.56	0.52
● 02323.15XP	3.15	250	26K7736	0.61	0.56	0.52
● 0232004.XP	4	250	26K7712	0.61	0.56	0.52
● 0232005.XP	5	250	26K7715	0.61	0.56	0.52
● 023206.3XP	6.3	250	26K7730	0.61	0.56	0.52
● 0232008.XP	8	250	26K7718	0.61	0.56	0.52
● 0232010.XP	10	250	26K7724	0.61	0.56	0.52

(85676)

- Indicates RoHS Compliant

233 SERIES 5x20mm MEDIUM-ACTING AXIAL LEAD FUSES

- UL listed
- CSA certified
- CE compliant



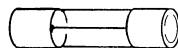
233 series medium-acting fuses with 10,000A interrupting rating. Glass body material. Designed to UL/CSA/ANCE 248 standard. Axial lead formats also available; *go online or call*. Available ratings: 1A to 6.3A.

Mfg. Part No.	Current Rating (A)	Voltage Rating (V)	Stock No.	Price Each		
				1-24	25-49	50-99
● 0233001.XP	1	125	26K7739	0.61	0.56	0.52
● 02331.25XP	1.25	125	26K7759	0.61	0.56	0.52
● 023301.6XP	1.6	125	26K7751	0.61	0.56	0.52
● 0233002.XP	2	125	26K7741	0.61	0.56	0.52
● 023302.5XP	2.5	125	26K7753	0.61	0.56	0.52
● 0233003.XP	3	125	26K7743	0.61	0.56	0.52
● 02333.15XP	3.15	125	26K7761	0.61	0.56	0.52
● 023303.5XP	3.5	125	26K7755	0.61	0.56	0.52
● 0233004.XP	4	125	26K7745	0.61	0.56	0.52
● 0233005.XP	5	125	26K7747	0.61	0.56	0.52
● 0233006.XP	6	125	26K7749	0.61	0.56	0.52
● 023306.3XP	6.3	125	26K7757	0.61	0.56	0.52

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234 SERIES 5x20mm MEDIUM-ACTING AXIAL LEAD FUSES

- UL listed
- CSA certified
- CE compliant



234 series medium-acting fuses with 10,000A interrupting rating. Glass body material. Designed to UL/CSA/ANCE 248 standard. Axial lead formats also available; *go online or call*. Available ratings: 1A to 10A.

Mfg. Part No.	Current Rating (A)	Voltage Rating (V)	Stock No.	Price Each		
				1-9	10-99	100-249
● 0234001.XP	1	250	26K7763	0.80	0.74	0.69
● 02341.25XP	1.25	250	26K7787	0.80	0.74	0.69
● 023401.6XP	1.6	250	26K7777	0.80	0.74	0.69
● 0234002.XP	2	250	26K7765	0.80	0.74	0.69
● 023402.5XP	2.5	250	26K7781	0.80	0.74	0.69
● 0234003.XP	3	250	26K7767	0.80	0.74	0.69
● 02343.15XP	3.15	250	26K7789	0.80	0.74	0.69
● 023403.5XP	3.5	250	26K7783	0.80	0.74	0.69
● 0234004.XP	4	250	26K7769	0.80	0.74	0.69
● 0234005.XP	5	250	26K7771	0.80	0.74	0.69
● 0234006.XP	6	250	26K7773	0.80	0.74	0.69
● 023406.3XP	6.3	250	26K7785	0.80	0.74	0.69
● 0234008.XP	8	250	26K7775	0.80	0.74	0.69
● 0234010.XP	10	250	26K7779	0.80	0.74	0.69

(85678)

MDL SERIES TIME-DELAY 1/4 x 1 1/4" FUSES

- UL Listed (1/16-8A)
- UL Recognized (9-30A)
- CSA Certified (2/10-15A)



Time-delay. Glass tube, nickel-plated brass endcap construction. MDL-V series with 0.032" x 1.5" copper tinned axial leads available; *go online or call*. Sold in multiples of 5.

Mfg. Part No.	Current Rating (A)	Voltage Rating (AC)	Stock No.	Price Each		
				1-99	100-249	250-499
● MDL-1/16-R	1/16	250	48K9759	1.69	1.52	1.37
● MDL-1/10-R	1/10	250	48K9758	1.35	1.21	1.09
● MDL-1/8-R	1/8	250	48K9762	1.35	1.21	1.09
● MDL-25-R	25	32	48K9774	0.84	0.75	0.68
● MDL-15/100-R	15/100	250	48K9766	1.29	1.16	1.05
MDL-15/100	15/100	250	96C9437	5.15	4.63	4.17
● MDL-2/10-R	2/10	250	48K9772	1.35	1.21	1.09
● MDL-1/4-R	1/4	250	48K9761	0.82	0.74	0.66
● MDL-3/10-R	3/10	250	48K9778	0.82	0.74	0.66
● MDL-3/8-R	3/8	250	48K9781	0.82	0.74	0.66
● MDL-4/10-R	4/10	250	48K9784	0.82	0.74	0.66
● MDL-1/2-R	1/2	250	48K9760	0.78	0.70	0.64
● MDL-6/10-R	6/10	250	48K9788	0.78	0.70	0.64
● MDL-7/10-R	7/10	250	48K9791	0.78	0.70	0.64
● MDL-3/4-R	3/4	250	48K9780	0.59	0.53	0.48
● MDL-8/10-R	8/10	250	48K9793	0.78	0.70	0.64

➤ CONTINUED ➤

ELECTRONIC FERRULE FUSES

MDL SERIES TIME-DELAY

¼ x 1¼" FUSES (CONT.)

Mfg. Part No.	Current Rating (A)	Voltage Rating (AC)	Stock No.	Price Each		
				1-99	100-249	250-499
● MDL-1-R	1	250	48K9752	0.59	0.53	0.48
● MDL-1-2/10-R	1½	250	48K9755	0.59	0.53	0.48
● MDL-1-1/4-R	1¼	250	48K9754	0.59	0.53	0.48
● MDL-1-1/2-R	1½	250	48K9753	0.59	0.53	0.48
● MDL-1-6/10-R	1½	250	48K9756	0.59	0.53	0.48
● MDL-1-8/10-R	1½	250	48K9757	0.59	0.53	0.48
● MDL-2-R	2	250	48K9768	0.59	0.53	0.48
● MDL-2-1/4-R	2¼	250	48K9770	0.49	0.44	0.40
● MDL-2-1/2-R	2½	250	48K9769	0.59	0.53	0.48
● MDL-2-8/10-R	2½	250	48K9771	0.59	0.53	0.48
● MDL-3-R	3	250	48K9775	0.59	0.53	0.48
● MDL-3-2/10-R	3½	250	48K9777	0.59	0.53	0.48
● MDL-3-1/2-R	3½	250	48K9776	0.59	0.53	0.48
● MDL-4-R	4	250	48K9783	0.59	0.53	0.48
● MDL-5-R	5	250	48K9785	0.59	0.53	0.48
● MDL-6-R	6	250	48K9786	0.59	0.53	0.48
● MDL-6-1/4-R	6¼	250	48K9787	0.59	0.53	0.48
● MDL-7-R	7	250	48K9789	0.59	0.53	0.48
● MDL-7-1/2-R	7½	250	48K9790	0.59	0.53	0.48
● MDL-8-R	8	250	48K9792	0.59	0.53	0.48
● MDL-9-R	9	32	48K9794	0.59	0.53	0.48
● MDL-10-R	10	32	48K9763	0.88	0.79	0.71
● MDL-12-R	12	32	48K9764	0.88	0.79	0.71
● MDL-15-R	15	32	48K9765	0.88	0.79	0.71
● MDL-20-R	20	32	48K9773	0.88	0.79	0.71
● MDL-30-R	30	32	48K9782	0.84	0.75	0.68

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229P SERIES 2AG SLO-BLO® CARTRIDGE AND AXIAL TYPE FUSES



- UL Recognized
- CSA Certified
- CE Compliant



Same performance as standard 3AG design in less than ½ space. Amp rating at 110%, 4 hour min.; 135%, 1 hour max.; 200%, 3 second min., 1 minute max. Indicating version available. Glass body material. Interrupting ratings: 10,000A @ 125VAC (¼-3.5A). 400A @ 125VAC (4-7A). 35A @ 250VAC (¼-1A). 100A @ 250VAC (1.5-3.5A). Suffix S indicates indicating fuses. Axial leaded versions also available; go online or call. Suffix T1P indicates tape and reel packaging. RoHS compliant. Go online or call.

229P SERIES CARTRIDGE FUSES

Mfg. Part No.	Current Rating	Voltage Rating (V)	Stock No.	Price Each		
				1-9	10-99	100-249
● 229.250P	250mA	250	26K8176	0.56	0.52	0.48
● 229.350P	350mA	250	26K8178	0.56	0.52	0.48
● 229.375P	375mA	250	26K8180	0.56	0.52	0.48
● 229.500P	500mA	250	26K8182	0.56	0.52	0.48
● 229.600P	600mA	250	26K8184	0.56	0.52	0.48
● 229.750P	750mA	250	26K8186	0.56	0.52	0.48
● 229.800P	800mA	250	26K8188	0.56	0.52	0.48
● 229001P	1A	250	26K8189	0.56	0.52	0.48
● 2291.25P	1.25A	250	26K8209	0.56	0.52	0.48
● 22901.5P	1.5A	250	26K8203	0.56	0.52	0.48
● 229002P	2A	250	26K8191	0.56	0.52	0.48
● 2292.25P	2.25A	250	26K8211	0.56	0.52	0.48
● 22902.5P	2.5A	250	26K8205	0.56	0.52	0.48
● 229003P	3A	250	26K8193	0.56	0.52	0.48
● 22903.5P	3.5A	250	26K8207	0.56	0.52	0.48
● 229004P	4A	125	26K8195	0.56	0.52	0.48
● 229005P	5A	125	26K8197	0.56	0.52	0.48
● 229006P	6A	125	26K8199	0.56	0.52	0.48
● 229007P	7A	125	26K8201	0.56	0.52	0.48

229P INDICATING SLO-BLO® CARTRIDGE FUSES

● 229.250SP	250mA	250	26K8177	0.68	0.63	0.59
● 229.350SP	350mA	250	26K8179	0.68	0.63	0.59
● 229.375SP	375mA	250	26K8181	0.68	0.63	0.59
● 229.500SP	500mA	250	26K8183	0.68	0.63	0.59
● 229.600SP	600mA	250	26K8185	0.68	0.63	0.59
● 229.750SP	750mA	250	26K8187	0.68	0.63	0.59
● 229001SP	1A	250	26K8190	0.68	0.63	0.59
● 2291.25SP	1.25A	250	26K8210	0.68	0.63	0.59
● 22901.5SP	1.5A	250	26K8204	0.68	0.63	0.59

▶ CONTINUED ▶

229P SERIES 2AG SLO-BLO® CARTRIDGE AND AXIAL TYPE FUSES (CONT.)

229P INDICATING SLO-BLO® CARTRIDGE FUSES

Mfg. Part No.	Current Rating	Voltage Rating (V)	Stock No.	Price Each		
				1-9	10-99	100-249
● 229002SP	2A	250	26K8192	0.68	0.63	0.59
● 2292.25SP	2.25A	250	26K8212	0.68	0.63	0.59
● 22902.5SP	2.5A	250	26K8206	0.68	0.63	0.59
● 229003SP	3A	250	26K8194	0.68	0.63	0.59
● 22903.5SP	3.5A	250	26K8208	0.68	0.63	0.59
● 229005SP	5A	125	26K8198	0.68	0.63	0.59
● 229006SP	6A	125	26K8200	0.68	0.63	0.59
● 229007SP	7A	125	26K8202	0.68	0.63	0.59

(85674)

313P SERIES 3AG SLO-BLO® CARTRIDGE FUSES



- UL listed (0 - 8A)
- CSA certified (0 - 8A)
- UL recognized (10 - 30A)
- CE compliant



313P series 3AG SLO-BLO® fast-acting cartridge fuses meet a broad range of circuit protection applications. Glass body. Available ratings: 0.010 to 30A. Interrupting ratings: 0.01-8A, 1000A @ 125 VAC; 0.1-1A, 35A @ 250 VAC; 1.2-3.2A, 100A @ 250 VAC; 4-8A, 200A @ 250 VAC; 10-30A, 300A @ 32 VAC.

Mfg. Part No.	Current Rating	Voltage Rating (V)	Stock No.	Price Each		
				1-9	10-99	100-249
● 313.010P	10mA	250	26K8460	2.48	2.19	1.96
● 313.040P	40mA	250	26K8461	2.48	2.19	1.96
● 313.062P	62.5mA	250	26K8462	1.28	1.13	1.01
● 313.100P	100mA	250	26K8463	1.28	1.13	1.01
● 313.125P	125mA	250	26K8464	1.28	1.13	1.01
● 313.150P	150mA	250	26K8465	1.28	1.13	1.01
● 313.175P	175mA	250	26K8466	0.74	0.66	0.59
● 313.187P	187mA	250	26K8467	0.74	0.66	0.59
● 313.200P	200mA	250	26K8468	0.74	0.66	0.59
● 313.250P	250mA	250	26K8469	0.74	0.66	0.59
● 313.300P	300mA	250	26K8470	0.74	0.66	0.59
● 313.31P	312mA	250	26K8471	2.48	2.19	1.96
● 313.375P	375mA	250	26K8472	0.74	0.66	0.59
● 313.400P	400mA	250	26K8473	0.74	0.66	0.59
● 313.500P	500mA	250	26K8474	0.57	0.50	0.45
● 313.600P	600mA	250	26K8475	0.57	0.50	0.45
● 313.700P	700mA	250	26K8476	0.57	0.50	0.45
● 313.750P	750mA	250	26K8477	0.57	0.50	0.45
● 313.800P	800mA	250	26K8478	0.57	0.50	0.45
● 313001P	1A	250	26K8479	0.57	0.50	0.45
● 31301.2P	1.2A	250	26K8486	0.57	0.50	0.45
● 3131.25P	1.25A	250	26K8500	0.57	0.50	0.45
● 31301.5P	1.5A	250	26K8487	0.57	0.50	0.45
● 31301.6P	1.6A	250	26K8488	0.57	0.50	0.45
● 31301.8P	1.8A	250	26K8489	0.57	0.50	0.45
● 313002P	2A	250	26K8480	0.57	0.50	0.45
● 3132.25P	2.25A	250	26K8501	0.57	0.50	0.45
● 31302.5P	2.5A	250	26K8493	0.57	0.50	0.45
● 31302.8P	2.8A	250	26K8494	0.57	0.50	0.45
● 313003P	3A	250	26K8481	0.57	0.50	0.45
● 31303.2P	3.2A	250	26K8497	0.57	0.50	0.45
● 313004P	4A	250	26K8482	0.65	0.57	0.51
● 313005P	5A	250	26K8483	0.65	0.57	0.51
● 3136.25P	6.25A	250	26K8502	0.65	0.57	0.51
● 31306.3P	6.3A	250	26K8499	0.65	0.57	0.51
● 313007P	7A	250	26K8484	0.65	0.57	0.51
● 313008P	8A	250	26K8485	0.65	0.57	0.51
● 313010P	10A	32	26K8490	0.65	0.57	0.51
● 313012P	12A	32	26K8491	0.65	0.57	0.51
● 313015P	15A	32	26K8492	0.65	0.57	0.51
● 313020P	20A	32	26K8495	0.83	0.73	0.66
● 313025P	25A	32	26K8496	0.83	0.73	0.66
● 313030P	30A	32	26K8498	0.83	0.73	0.66

(85685)

ELECTRONIC FERRULE FUSES

315P SERIES 3AG SLO-BLO®
AXIAL LEAD FUSES

- UL listed (0 - 8A)
- CSA certified (0 - 8A)
- UL recognized (10 - 30A)
- CE compliant



315P series 3AG Slo-Blo® fast-acting axial lead fuses meet a broad range of circuit protection applications. Glass body. Available ratings: 0.010 to 30A. Interrupting ratings: 0.01-8A, 1000A @ 125 VAC; 00.1-1A, 35A @ 250 VAC; 1.2-3.2A, 100A @ 250 VAC; 4-8A, 200A @ 250 VAC; 10-30A, 300A @ 32 VAC.

Mfg. Part No.	Current Rating	Voltage Rating (V)	Stock No.	Price Each		
				1-9	10-99	50-99
● 315.010P	10mA	250	26K8522	2.19	2.09	1.98
● 315.031P	31.25mA	250	26K8523	2.19	2.09	1.98
● 315.040P	40mA	250	26K8524	2.19	2.09	1.98
● 315.062P	62.5mA	250	26K8525	2.19	2.09	1.98
● 315.100P	100mA	250	26K8526	2.19	2.09	1.98
● 315.125P	125mA	250	26K8527	2.19	2.09	1.98
● 315.150P	150mA	250	26K8528	2.19	2.09	1.98
● 315.175P	175mA	250	26K8529	0.89	0.84	0.80
● 315.187P	187mA	250	26K8530	0.89	0.84	0.80
● 315.200P	200mA	250	26K8531	0.89	0.84	0.80
● 315.250P	250mA	250	26K8532	0.89	0.84	0.80
● 315.300P	300mA	250	26K8533	0.89	0.84	0.80
● 315.375P	375mA	250	26K8534	0.89	0.84	0.80
● 315.400P	400mA	250	26K8535	0.89	0.84	0.80
● 315.500P	500mA	250	26K8536	0.89	0.84	0.80
● 315.600P	600mA	250	26K8537	0.89	0.84	0.80
● 315.700P	700mA	250	26K8538	0.89	0.84	0.80
● 315.750P	750mA	250	26K8539	0.89	0.84	0.80
● 315.800P	800mA	250	26K8540	0.89	0.84	0.80
● 315001P	1A	250	26K8541	0.89	0.84	0.80
● 31501.2P	1.2A	250	26K8548	0.89	0.84	0.80
● 3151.25P	1.25A	250	26K8562	0.89	0.84	0.80
● 31501.5P	1.5A	250	26K8549	0.89	0.84	0.80
● 31501.6P	1.6A	250	26K8550	0.89	0.84	0.80
● 31501.8P	1.8A	250	26K8551	0.89	0.84	0.80
● 315002P	2A	250	26K8542	0.89	0.84	0.80
● 3152.25P	2.25A	250	26K8563	0.89	0.84	0.80
● 31502.5P	2.5A	250	26K8555	0.89	0.84	0.80
● 31502.8P	2.8A	250	26K8556	0.89	0.84	0.80
● 315003P	3A	250	26K8543	0.89	0.84	0.80
● 31503.2P	3.2A	250	26K8559	0.89	0.84	0.80
● 315004P	4A	250	26K8544	0.89	0.84	0.80
● 315005P	5A	250	26K8545	0.89	0.84	0.80
● 3156.25P	6.25A	250	26K8564	0.89	0.84	0.80
● 31506.3P	6.3A	250	26K8561	0.89	0.84	0.80
● 315007P	7A	250	26K8546	0.89	0.84	0.80
● 315008P	8A	250	26K8547	0.89	0.84	0.80
● 315010P	10A	32	26K8552	0.89	0.84	0.80
● 315012P	12A	32	26K8553	0.89	0.84	0.80
● 315015P	15A	32	26K8554	0.89	0.84	0.80
● 315020P	20A	32	26K8557	1.20	1.15	1.09
● 315025P	25A	32	26K8558	1.20	1.15	1.09
● 315030P	30A	250	26K8560	1.20	1.15	1.09

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325P SERIES 3AB SLO-BLO®
AXIAL-LEAD TYPE FUSES

- UL Listed (0.125A - 10A)
- UL Recognized (12A - 30A)
- CSA Certified (0.125A - 30A)
- CE Compliant (0.125A - 30A)



325P series 3AB slo-blo axial-lead fuses permits higher interrupting rating and voltage rating. Ideal for applications where high current loads are expected. Ceramic body. Available rating: 0.010 to 30A. Interrupting rating: 0.010-20A, 10,000A @ 125 VAC, 25-30A @ 400A @ 250 VAC, 0.010-3.2A, 100A @ 250 VAC, 4-20A, 400A @ 250 VAC, RoHS compliant.

Mfg. Part No.	Current Rating	Voltage Rating (V)	Stock No.	Price Each		
				1-9	10-99	100-249
● 325.500P	500mA	250	26K8643	1.85	1.71	1.60
● 325001P	1A	250	26K8648	1.85	1.71	1.60
● 32501.5P	1.5A	250	26K8656	1.85	1.71	1.60
● 325002P	2A	250	26K8649	1.85	1.71	1.60
● 325005P	5A	250	26K8652	1.85	1.71	1.60
● 325008P	8A	250	26K8654	1.85	1.71	1.60
● 325010P	10A	250	26K8658	1.85	1.71	1.60
● 325012P	12A	250	26K8659	1.85	1.71	1.60

➤ CONTINUED ➤

325P SERIES 3AB SLO-BLO® AXIAL-LEAD TYPE FUSES (CONT.)

Mfg. Part No.	Current Rating	Voltage Rating (V)	Stock No.	Price Each			
				1-9	10-99	100-249	250-499
● 325015P	15A	250	26K8660	1.85	1.71	1.60	1.48
● 325020P	20A	250	26K8663	1.85	1.71	1.60	1.48

(85691)

C519 SERIES TIME-DELAY
5 x 15mm GLASS FUSES

- UL Listed (125mA-250mA and 375mA-3A)
- UL Recognized (350mA and 3.5A-7A)
- CSA Certified (125mA-250mA and 375mA-3A)



Time-delay. Glass tube, nickel-plated brass endcap construction. Sold in multiples of 5.

Mfg. Part No.	Current Rating	Voltage Rating (AC)	Stock No.	Price Each		
				1-99	100-249	250+
● C519-125MA-R	125mA	250	48K9452	0.40	0.33	0.32
● C519-250MA-R	250mA	250	48K9456	0.30	0.25	0.23
● C519-350MA-R	350mA	250	48K9459	0.30	0.25	0.23
● C519-375MA-R	375mA	250	48K9460	0.30	0.25	0.23
● C519-500MA-R	500mA	250	48K9463	0.30	0.25	0.23
● C519-600MA-R	600mA	250	48K9464	0.30	0.25	0.23
● C519-750MA-R	750mA	250	48K9466	0.31	0.26	0.24
● C519-1-R	1A	250	48K9451	0.31	0.26	0.24
● C519-1.25-R	1.25A	250	48K9448	0.31	0.26	0.24
● C519-1.5-R	1.5A	250	48K9449	0.31	0.26	0.24
● C519-1.6-R	1.6A	250	48K9450	0.31	0.26	0.24
● C519-2-R	2A	250	48K9455	0.31	0.26	0.24
● C519-2.25-R	2.25A	250	48K9453	0.31	0.26	0.24
● C519-2.5-R	2.5A	250	48K9454	0.31	0.26	0.24
● C519-3-R	3A	250	48K9458	0.31	0.26	0.24
● C519-3.5-R	3.5A	125	48K9457	0.31	0.26	0.24
● C519-4-R	4A	125	48K9461	0.31	0.26	0.24
● C519-5-R	5A	125	48K9462	0.31	0.26	0.24
● C519-7-R	7A	125	48K9465	0.31	0.26	0.24

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C515 SERIES TIME
DELAY 5 x 15mm
GLASS FUSES

- UL Listed (125mA-250mA and 375mA-3A)
- UL Recognized (350mA and 3.5A-7A)
- CSA Certified (125mA-250mA and 375mA-3A)

Axial leaded, time-delay. Glass tube, nickel-plated brass endcap construction. Leads are tin coated.

Mfg. Part No.	Current Rating	Voltage Rating (AC)	Stock No.	Price Each		
				1-49	50-99	100-249
● C515-125MA-R	125mA	250	48K9421	0.56	0.54	0.51
● C515-250MA-R	250mA	250	48K9425	0.56	0.54	0.51
● C515-350MA-R	350mA	250	48K9428	0.56	0.54	0.51
● C515-375MA-R	375mA	250	48K9429	0.56	0.54	0.51
● C515-500MA-R	500mA	250	48K9432	0.56	0.54	0.51
● C515-600MA-R	600mA	250	48K9433	0.56	0.54	0.51
● C515-750MA-R	750mA	250	48K9434	0.56	0.54	0.51
● C515-1-R	1A	250	48K9420	0.59	0.56	0.54
● C515-1.25-R	1.25A	250	48K9417	0.56	0.54	0.51
● C515-1.5-R	1.5A	250	48K9418	0.56	0.54	0.51
● C515-1.6-R	1.6A	250	48K9419	0.56	0.54	0.51
● C515-2-R	2A	250	48K9424	0.56	0.54	0.51
● C515-2.25-R	2.25A	250	48K9422	0.56	0.54	0.51
● C515-2.5-R	2.5A	250	48K9423	0.56	0.54	0.51
● C515-3-R	3A	250	48K9427	0.48	0.46	0.43
● C515-3.5-R	3.5A	125	48K9426	0.56	0.54	0.51
● C515-4-R	4A	125	48K9430	0.56	0.54	0.51
● C515-5-R	5A	125	48K9431	0.56	0.54	0.51

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ELECTRONIC FERRULE FUSES

S506 SERIES TIME-DELAY
5 x 20mm GLASS FUSES

- Designed to IEC 60127-2 (500mA-6.3A)
- UL Recognized (1A-10A)
- Semko Approved (500mA-10A)
- VDE Approved (500mA-10A)



Time-Delay, low-breaking capacity. Glass tube, nickel-plated brass endcap construction. **S506-V series** with 0.032" x 1.5" copper tinned axial leads also available; [go online or call](#).

Mfg. Part No.	Current Rating	Voltage Rating (AC)	Stock No.	Price Each		
				1-49	50-99	100-249
● S506-32MA-R	32mA	250	48K9970	1.23	1.18	1.12
● S506-40MA-R	40mA	250	48K9972	1.17	1.12	1.07
● S506-50MA-R	50mA	250	48K9975	1.23	1.18	1.12
● S506-63MA-R	63mA	250	48K9978	1.17	1.12	1.07
● S506-80MA-R	80mA	250	48K9980	1.17	1.12	1.07
● S506-100MA-R	100mA	250	48K9962	0.68	0.65	0.62
● S506-125MA-R	125mA	250	48K9963	0.72	0.69	0.65
● S506-160MA-R	160mA	250	48K9964	0.72	0.69	0.65
● S506-200MA-R	200mA	250	48K9967	0.72	0.69	0.65
● S506-250MA-R	250mA	250	48K9968	0.72	0.69	0.65
● S506-400MA-R	400mA	250	48K9973	0.72	0.69	0.65
● S506-500MA-R	500mA	250	48K9976	0.52	0.50	0.47
● S506-630MA-R	630mA	250	48K9979	0.50	0.47	0.45
● S506-800MA-R	800mA	250	48K9981	0.50	0.47	0.45
● S506-1-R	1A	250	48K9961	0.52	0.50	0.47
● S506-1.25-R	1.25A	250	48K9959	0.52	0.50	0.47
● S506-1.6-R	1.6A	250	48K9960	0.52	0.50	0.47
● S506-2-R	2A	250	48K9966	0.52	0.50	0.47
● S506-2.5-R	2.5A	250	48K9965	0.52	0.50	0.47
● S506-3.15-R	3.15A	250	48K9969	0.52	0.50	0.47
● S506-4-R	4A	250	48K9971	0.52	0.50	0.47
● S506-5-R	5A	250	48K9974	0.52	0.50	0.47
● S506-6.3-R	6.3A	250	48K9977	0.52	0.50	0.47

(85658)

GMC SERIES MEDIUM TIME-DELAY
5 x 20mm GLASS FUSES

- UL Listed (63mA-6.3A)
- UL Recognized (7-8A)
- CSA Certified (63mA-6.3A)



Medium time-delay, low-breaking capacity. Glass tube, nickel-plated brass endcap construction. **GMC-V series** with 0.032" x 1.5" copper tinned axial leads also available; [go online or call](#).

Mfg. Part No.	Current Rating	Voltage Rating (AC)	Stock No.	Price Each		
				1-99	100-499	500-999
● GMC-63MA-R	63mA	250	48K9599	1.44	1.08	0.94
● GMC-80MA-R	80mA	250	48K9604	1.36	1.02	0.89
● GMC-100MA-R	100mA	250	48K9580	1.22	0.92	0.80
● GMC-125MA-R	125mA	250	48K9581	1.36	1.02	0.89
● GMC-150MA-R	150mA	250	48K9582	0.78	0.59	0.51
● GMC-200MA-R	200mA	250	48K9585	0.78	0.59	0.51
● GMC-250MA-R	250mA	250	48K9586	0.78	0.59	0.51
● GMC-300MA-R	300mA	250	48K9590	0.70	0.53	0.46
● GMC-315MA-R	315mA	250	48K9591	0.70	0.53	0.46
● GMC-400MA-R	400mA	250	48K9593	0.70	0.53	0.46
● GMC-500MA-R	500mA	250	48K9595	0.60	0.45	0.39
● GMC-600MA-R	600mA	250	48K9598	0.54	0.41	0.36
● GMC-630MA-R	630mA	250	48K9600	0.54	0.41	0.35
● GMC-750MA-R	750mA	250	48K9602	0.54	0.41	0.36
● GMC-800MA-R	800mA	250	48K9605	0.60	0.45	0.39
● GMC-1-R	1A	250	48K9578	0.60	0.45	0.39
● GMC-1.25-R	1.25A	250	48K9575	0.60	0.45	0.39
● GMC-1.5-R	1.5A	250	48K9576	0.60	0.45	0.39
● GMC-1.6-R	1.6A	250	48K9577	0.54	0.41	0.36
● GMC-2-R	2A	250	48K9584	0.60	0.45	0.39
● GMC-2.5-R	2.5A	250	48K9583	0.60	0.45	0.39
● GMC-3-R	3A	250	48K9589	0.60	0.45	0.39
● GMC-3.15-R	3.15A	250	48K9587	0.60	0.45	0.39
● GMC-3.5-R	3.5A	250	48K9588	0.60	0.45	0.39
● GMC-4-R	4A	125	48K9592	0.60	0.45	0.39
● GMC-5-R	5A	125	48K9594	0.60	0.45	0.39
● GMC-6-R	6A	125	48K9597	0.60	0.45	0.39
● GMC-6.3-R	6.3A	125	48K9596	0.60	0.45	0.39
● GMC-7-R	7A	125	48K9601	0.60	0.45	0.39
● GMC-8-R	8A	125	48K9603	0.60	0.45	0.39
● GMC-10-R	10A	125	48K9579	0.60	0.45	0.39

(2318)

GMD AND GMD-V SERIES TIME-DELAY
5 x 20mm GLASS FUSES

- UL Listed (125mA-3A)
- UL Recognized (4A)
- CSA Certified



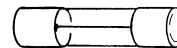
Time-delay, low-breaking capacity. Glass tube, nickel-plated brass endcap construction. **GMD-V series** with 0.032" x 1.5" copper tinned axial leads also available; [go online or call](#).

Mfg. Part No.	Current Rating	Voltage Rating (AC)	Stock No.	Price Each		
				1-49	50-99	100-249
● GMD-125MA-R	125mA	250	48K9630	1.29	1.17	1.12
● GMD-150MA-R	150mA	250	48K9631	1.29	1.17	1.12
● GMD-200MA-R	200mA	250	48K9634	0.61	0.56	0.53
● GMD-250MA-R	250mA	250	48K9635	0.61	0.56	0.53
● GMD-300MA-R	300mA	250	48K9637	0.61	0.56	0.53
● GMD-315MA-R	315mA	250	48K9638	0.61	0.56	0.53
● GMD-400MA-R	400mA	250	48K9640	0.61	0.56	0.53
● GMD-500MA-R	500mA	250	48K9641	0.47	0.43	0.41
● GMD-600MA-R	600mA	250	48K9642	0.47	0.43	0.41
● GMD-630MA-R	630mA	250	48K9643	0.47	0.43	0.41
● GMD-750MA-R	750mA	250	48K9644	0.47	0.43	0.41
● GMD-800MA-R	800mA	250	48K9645	0.47	0.43	0.41
● GMD-1-R	1A	250	48K9629	0.47	0.43	0.41
● GMD-1.2-R	1.2A	250	48K9625	0.47	0.43	0.41
● GMD-1.25-R	1.25A	250	48K9626	0.47	0.43	0.41
● GMD-1.5-R	1.5A	250	48K9627	0.47	0.43	0.41
● GMD-1.6-R	1.6A	250	48K9628	0.47	0.43	0.41
● GMD-2-R	2A	250	48K9633	0.47	0.43	0.41
● GMD-2.5-R	2.5A	250	48K9632	0.47	0.43	0.41
● GMD-3-R	3A	250	48K9636	0.47	0.43	0.41
● GMD-4-R	4A	250	48K9639	0.47	0.43	0.41

(85661)

219P SERIES 5x20mm SLO-BLO®
CARTRIDGE FUSES

- UL recognized
- CSA certified
- CE compliant
- British BSI Licence
- Swedish file



219P series Slo-Blo® fuses with 150A interrupting rating. Glass body material. Designed to international IEC standards for use globally. Meet IEC 60127-2, Sheet 6 specifications for time-lag fuses. Axial lead formats also available; [go online or call](#). Available ratings: 0.125A to 6.3A.

Mfg. Part No.	Current Rating	Volts	Stock No.	Price Each		
				1-24	25-49	50-99
● 0219.125XAP	125mA	250	26K7650	1.00	0.93	0.85
● 0219.160XAP	160mA	250	26K7653	1.00	0.93	0.85
● 0219.200XAP	200mA	250	26K7656	1.00	0.93	0.85
● 0219.250XAP	250mA	250	26K7659	1.00	0.93	0.85
● 0219.315XAP	315mA	250	26K7662	1.00	0.93	0.85
● 0219.400XAP	400mA	250	26K7665	1.00	0.93	0.85
● 0219.500XAP	500mA	250	26K7668	0.69	0.63	0.58
● 0219.630XAP	630mA	250	26K7671	0.69	0.63	0.58
● 0219.800XAP	800mA	250	26K7674	0.69	0.63	0.58
● 0219001.XAP	1A	250	26K7677	0.69	0.63	0.58
● 02191.25XAP	1.25A	250	26K7698	0.69	0.63	0.58
● 021901.6XAP	1.6A	250	26K7689	0.69	0.63	0.58
● 0219002.XAP	2A	250	26K7680	0.69	0.63	0.58
● 021902.5XAP	2.5A	250	26K7692	0.69	0.63	0.58
● 02193.15XAP	3.15A	250	26K7701	0.69	0.63	0.58
● 0219004.XAP	4A	250	26K7683	0.69	0.63	0.58
● 0219005.XAP	5A	250	26K7686	0.69	0.63	0.58
● 021906.3XAP	6.3A	250	26K7695	0.69	0.63	0.58

(85635)

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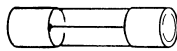
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Go online or call us today.

ELECTRONIC FERRULE FUSES

218 SERIES 5 x 20mm
SLO-BLO® CARTRIDGE
TYPE FUSES

- UL Recognized (32mA - 15A)
- CSA Certified (32mA - 15A)
- CE Compliant (32mA - 15A)
- British BSI Licence (80mA - 6.3A)
- Swedish File (32mA - 6.3A)



218 series SLO-BLO® fuses with 35A interrupting rating. Glass body material. Designed to international IEC standards for use globally. Meet IEC 60127-2, Sheet 3 specifications for time-lag fuses. Axial lead formats also available; go online or call. Available in ratings of 0.032A to 15A. Go online or call for details. RoHS compliant.

Mfg. Part No.	Current Rating	Voltage Rating (V)	Stock No.	Price Each			
				1-9	10-99	100-249	250-499
● 218.032XP	32mA	250	26K8026	1.48	1.29	1.16	1.11
● 218.040XP	40mA	250	26K8028	1.48	1.29	1.16	1.11
● 218.050XP	50mA	250	26K8030	1.48	1.29	1.16	1.11
● 218.063XP	63mA	250	26K8032	1.48	1.29	1.16	1.11
● 218.080XP	80mA	250	26K8034	1.48	1.29	1.16	1.11
● 218.100XP	100mA	250	26K8036	0.86	0.75	0.67	0.64
● 218.125XP	125mA	250	26K8038	0.86	0.75	0.67	0.64
● 218.160XP	160mA	250	26K8040	0.86	0.75	0.67	0.64
● 218.200XP	200mA	250	26K8042	0.86	0.75	0.67	0.64
● 218.250XP	250mA	250	26K8044	0.86	0.75	0.67	0.64
● 218.315XP	315mA	250	26K8046	0.86	0.75	0.67	0.64
● 218.400XP	400mA	250	26K8048	0.86	0.75	0.67	0.64
● 218.500XP	500mA	250	26K8050	0.58	0.51	0.46	0.44
● 218.630XP	630mA	250	26K8052	0.58	0.51	0.46	0.44
● 218.800XP	800mA	250	26K8054	0.58	0.51	0.46	0.44
● 218001.XP	1A	250	26K8056	0.58	0.51	0.46	0.44
● 2181.25XP	1.25A	250	26K8076	0.58	0.51	0.46	0.44
● 21801.6XP	1.6A	250	26K8066	0.58	0.51	0.46	0.44
● 218002.XP	2A	250	26K8058	0.58	0.51	0.46	0.44
● 21802.5XP	2.5A	250	26K8072	0.58	0.51	0.46	0.44
● 2183.15XP	3.15A	250	26K8078	0.58	0.51	0.46	0.44
● 218004.XP	4A	250	26K8060	0.58	0.51	0.46	0.44
● 218005.XP	5A	250	26K8062	0.58	0.51	0.46	0.44
● 21806.3XP	6.3A	250	26K8074	0.58	0.51	0.46	0.44
● 218008.XP	8A	250	26K8064	0.93	0.81	0.72	0.69
● 218010.XP	10A	250	26K8068	0.93	0.81	0.72	0.69
● 218015.XP	15A	250	26K8070	0.93	0.81	0.72	0.69

(85671)

239 SERIES 5x20mm SLO-BLO® CARTRIDGE FUSES



- UL listed
- CSA certified

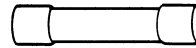
239 series SLO-BLO® fuses with 10,000A interrupting rating. Glass body material. Designed to UL/ CSA/ ANCE 248 standard. Axial lead formats available; go online or call. Available ratings: 0.200A to 7A.

Mfg. Part No.	Current Rating	Voltage Rating (V)	Stock No.	Price Each		
				1-24	25-49	50-99
● 239.200XP	200mA	250	26K8392	0.82	0.76	0.70
● 239.250XP	250mA	250	26K8394	0.82	0.76	0.70
● 239.300XP	300mA	250	26K8396	0.82	0.76	0.70
● 239.400XP	400mA	250	26K8398	0.63	0.58	0.54
● 239.500XP	500mA	250	26K8400	0.63	0.58	0.54
● 239.600XP	600mA	250	26K8402	0.63	0.58	0.54
● 239.700XP	700mA	250	26K8404	0.63	0.58	0.54
● 239.750XP	750mA	250	26K8406	0.63	0.58	0.54
● 239.800XP	800mA	250	26K8408	0.63	0.58	0.54
● 239001.XP	1A	250	26K8410	0.63	0.58	0.54
● 2391.25XP	1.25A	250	26K8426	0.63	0.58	0.54
● 23901.6XP	1.6A	250	26K8422	0.63	0.58	0.54
● 239002.XP	2A	250	26K8412	0.63	0.58	0.54
● 23902.5XP	2.5A	250	26K8424	0.63	0.58	0.54
● 239003.XP	3A	250	26K8414	0.63	0.58	0.54
● 2393.15XP	3.15A	250	26K8428	0.63	0.58	0.54
● 239004.XP	4A	125	26K8416	0.63	0.58	0.54
● 239005.XP	5A	125	26K8418	0.63	0.58	0.54
● 239007.XP	7A	125	26K8420	0.63	0.58	0.54

(85680)

GBB SERIES VERY
FAST-ACTING ¼ x 1-¼" CERAMIC FUSES

- UL Recognized
- CSA Certified



Very fast acting. Ceramic tube, nickel-plated brass endcap construction.

Mfg. Part No.	Current Rating (A)	Voltage Rating (AC)	Voltage Rating (DC)	Stock No.	Price Each		
					1-9	10-49	50-99
● GBB-1-R	1	250	125	48K9479	3.33	3.31	2.80
● GBB-1-1/4-R	1¼	250	125	48K9480	3.33	3.31	2.80
● GBB-2-R	2	250	125	48K9485	3.33	3.31	2.80
● GBB-3-R	3	250	125	48K9487	3.33	3.31	2.80
● GBB-4-R	4	250	125	48K9489	3.33	3.31	2.80
● GBB-6-R	6	250	125	48K9490	3.33	3.31	2.80
● GBB-8-R	8	250	125	48K9491	3.33	3.31	2.80
● GBB-9-R	9	250	125	48K9492	3.33	3.31	2.80
● GBB-10-R	10	250	125	48K9481	3.33	3.31	2.80
● GBB-12-R	12	250	125	48K9482	3.33	3.31	2.80
● GBB-15-R	15	250	125	48K9483	3.33	3.31	2.80
● GBB-17-1/2-R	17½	250	125	48K9484	3.57	3.56	3.01
● GBB-20-R	20	250	125	48K9486	3.33	3.31	2.80
● GBB-30-R	30	250	125	48K9488	3.33	3.31	2.80

(2324)

ABC SERIES FAST-ACTING
¼ x 1¼" CERAMIC FUSES

- UL Listed (1/4-15A)
- UL Recognized (20-30A)
- CSA Certified



Fast-acting. Ceramic tube, nickel-plated brass endcap construction. ABC-V series with 0.032" x 1.5" copper tinned axial leads also available; go online or call. Sold in multiples of 5.

Mfg. Part No.	Current Rating (A)	Voltage Rating (AC)	Voltage Rating (DC)	Stock No.	Price Each		
					1-49	50-99	100-249
● ABC-1/4-R	¼	250	125	48K9318	1.78	1.61	1.45
● ABC-1/2-R	½	250	125	48K9317	1.78	1.61	1.45
● ABC-3/4-R	¾	250	125	48K9328	0.77	0.69	0.62
● ABC-1-R	1	250	125	48K9315	0.75	0.68	0.61
● ABC-1-1/2-R	1½	250	125	48K9316	0.75	0.68	0.61
● ABC-2-R	2	250	125	48K9323	0.75	0.68	0.61
● ABC-2-1/2-R	2½	250	125	48K9324	0.75	0.68	0.61
● ABC-3-R	3	250	125	48K9327	0.75	0.68	0.61
● ABC-4-R	4	250	125	48K9330	0.75	0.68	0.61
● ABC-5-R	5	250	125	48K9331	0.70	0.63	0.57
● ABC-6-R	6	250	125	48K9332	0.70	0.63	0.57
● ABC-7-R	7	250	125	48K9333	0.70	0.63	0.57
● ABC-8-R	8	250	125	48K9334	0.70	0.63	0.57
● ABC-10-R	10	250	125	48K9319	0.70	0.63	0.57
● ABC-12-R	12	250	125	48K9320	0.70	0.63	0.57
● ABC-15-R	15	250	125	48K9321	0.70	0.63	0.57
● ABC-18-R	18	250	125	48K9322	1.02	0.92	0.83
● ABC-20-R	20	250	125	48K9325	1.02	0.92	0.83
● ABC-25-R	25	125	125	48K9326	1.02	0.92	0.83
● ABC-30-R	30	125	125	48K9329	1.02	0.92	0.83

(2422)

TDC SERIES FAST/MEDIUM ¼ x 1" CERAMIC BRITISH PLUG FUSES



- Asta, BSI approved
- BS1362, IEC 269-3A



Fast/medium acting 8AG British plug top fuses. Ceramic tube, silver-plated copper end caps. Weight: 2.5g. Sold in packages of 5.

Mfg. Part No.	Current Rating (A)	Voltage Rating (AC)	Stock No.	Price per Pkg.		
				1-9	10-49	50-99
● TDC180-3-R	3	240	72K6278	1.08	1.03	0.98
● TDC180-5-R	5	240	72K6279	1.52	1.45	1.38
● TDC180-10-R	10	240	65K4443	1.08	1.03	0.98
● TDC180-13-R	13	240	72K6277	0.93	0.88	0.84

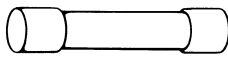
(2491)

ELECTRONIC FERRULE FUSES

314P SERIES 3AB FAST-ACTING CARTRIDGE FUSES



- UL listed (0.125A - 15A)
- UL recognized (20A - 30A)
- CSA certified (0.125A - 20A)
- CE compliant (0.125A - 30A)



314P series 3AB fast-acting cartridge fuses permit higher interrupting rating and voltage rating. Ideal for applications where high-current loads are expected. Ceramic body. Available ratings: 0.125 to 30A. Interrupting ratings: 0.125-20A, 10,000A at 125 VAC, 20-30A at 400A at 250 VAC, 0.125-0.75A, 35A at 250 VAC, 1-3A, 100A at 250 VAC, 4-15A, 750A at 250VAC, 20A, 1,000A at 250VAC, 200A at 300 VAC, 25-30A, 100A at 250 VAC.

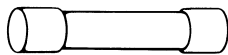
Mfg. Part No.	Current Rating	Voltage Rating (V)	Stock No.	Price Each			
				1-49	50-99	100-249	250-999
● 314.125P	125mA	250	26K8503	0.87	0.83	0.81	0.75
● 314.250P	250mA	250	26K8504	0.87	0.83	0.81	0.75
● 314.375P	375mA	250	26K8505	0.54	0.51	0.50	0.46
● 314.500P	500mA	250	26K8506	0.54	0.51	0.50	0.46
● 314.750P	750mA	250	26K8507	0.54	0.51	0.50	0.46
● 314001P	1A	250	26K8508	0.54	0.51	0.50	0.46
● 314002P	2A	250	26K8509	0.54	0.51	0.50	0.46
● 314003P	3A	250	26K8510	0.54	0.51	0.50	0.46
● 314004P	4A	250	26K8511	0.54	0.51	0.50	0.46
● 314005P	5A	250	26K8512	0.54	0.51	0.50	0.46
● 314006P	6A	250	26K8513	0.54	0.51	0.50	0.46
● 314007P	7A	250	26K8514	0.54	0.51	0.50	0.46
● 314008P	8A	250	26K8515	0.54	0.51	0.50	0.46
● 314010P	10A	250	26K8516	0.54	0.51	0.50	0.46
● 314012P	12A	250	26K8517	0.54	0.51	0.50	0.46
● 314015P	15A	250	26K8518	0.54	0.51	0.50	0.46
● 314020P	20A	250	26K8519	0.80	0.76	0.74	0.68
● 314025P	25A	250	26K8520	0.80	0.76	0.74	0.68
● 314030P	30A	250	26K8521	0.80	0.76	0.74	0.68

(85686)

324P SERIES 3AB FAST-ACTING AXIAL-LEAD TYPE FUSES



- UL Listed (0.125A - 15A)
- UL Recognized (20A - 30A)
- CSA Certified (0.125A - 20A)
- CE Compliant (0.125A - 30A)



324P series 3AB fast-acting axial-lead fuses permits higher interrupting rating and voltage rating. Ideal for applications where high current loads are expected. Ceramic body. Available ratings: 0.125 to 30A. Interrupting rating: 0.125-20A, 10,000A at 125 VAC, 20-30A at 400A at 250 VAC, 0.125-0.75A, 35A at 250 VAC, 1-3A, 100A at 250 VAC, 4-15A, 750A at 250VAC, 20A, 1,000A at 250VAC, 200A at 300 VAC, 25-30A, 100A at 250 VAC. RoHS compliant.

Mfg. Part No.	Current Rating	Voltage Rating (V)	Stock No.	Price Each			
				1-9	10-49	50-99	100-249
● 324.125P	125mA	250	26K8611	1.21	1.16	1.10	1.02
● 324.250P	250mA	250	26K8612	1.21	1.16	1.10	1.02
● 324.375P	375mA	250	26K8613	1.06	1.02	0.97	0.89
● 324.500P	500mA	250	26K8614	1.06	1.02	0.97	0.89
● 324.750P	750mA	250	26K8615	1.06	1.02	0.97	0.89
● 324001P	1A	250	26K8616	1.06	1.02	0.97	0.89
● 324002P	2A	250	26K8617	1.06	1.02	0.97	0.89
● 324003P	3A	250	26K8618	1.06	1.02	0.97	0.89
● 324004P	4A	250	26K8619	1.06	1.02	0.97	0.89
● 324005P	5A	250	26K8620	1.06	1.02	0.97	0.89
● 324006P	6A	250	26K8621	1.06	1.02	0.97	0.89
● 324007P	7A	250	26K8622	1.06	1.02	0.97	0.89
● 324008P	8A	250	26K8623	1.06	1.02	0.97	0.89
● 324010P	10A	250	26K8624	1.06	1.02	0.97	0.89
● 324012P	12A	250	26K8625	1.06	1.02	0.97	0.89
● 324015P	15A	250	26K8626	1.06	1.02	0.97	0.89
● 324020P	20A	250	26K8627	1.39	1.33	1.27	1.17
● 324025P	25A	250	26K8628	1.39	1.33	1.27	1.17
● 324030P	30A	250	26K8629	1.39	1.33	1.27	1.17

(85690)

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(94635)

322P SERIES 3AB VERY FAST-ACTING CARTRIDGE FUSES



- UL recognized



322P series 3AB very fast-acting cartridge fuses are ideal for protection of silicon controlled rectifiers and similar solid-state devices. Ceramic body. Available ratings: 1 to 30A. Interrupting ratings: 1-10A, 10,000A at 125 VAC, 100A at 250 VAC, 12-30A, 200A at 65 VAC.

Mfg. Part No.	Current Rating (A)	Voltage Rating (V)	Stock No.	Price Each		
				1-99	100-499	500-999
● 322001P	1	250	26K8595	2.14	1.98	1.82
● 3221.25P	1.25	250	26K8610	2.14	1.98	1.82
● 322002P	2	250	26K8596	2.14	1.98	1.82
● 322003P	3	250	26K8597	2.14	1.98	1.82
● 322004P	4	250	26K8598	2.14	1.98	1.82
● 322005P	5	250	26K8599	2.14	1.98	1.82
● 322006P	6	250	26K8600	2.14	1.98	1.82
● 322007P	7	250	26K8601	2.14	1.98	1.82
● 322008P	8	250	26K8602	2.14	1.98	1.82
● 322009P	9	250	26K8603	2.14	1.98	1.82
● 322010P	10	250	26K8604	2.14	1.98	1.82
● 322012P	12	65	26K8605	2.14	1.98	1.82
● 322015P	15	65	26K8606	2.14	1.98	1.82
● 322020P	20	65	26K8607	2.36	2.18	2.01
● 322025P	25	65	26K8608	2.36	2.18	2.01
● 322030P	30	65	26K8609	2.36	2.18	2.01

(85689)

GLR SERIES FAST-ACTING IN-LINE FUSES



GLR series 300V-rated fuses for fluorescent fixtures. UL listed, CSA certified. Mount in mfg. part no. HLR fuse holder with pre-tapped 6" (152.40), #18-gauge lead; order separately below.



Mfg. Part No.	Current Rating (A)	Stock No.	Price Each		
			1-9	10-49	50-99
GLR-2	2	28F304	2.77	2.64	2.50
GLR-5	5	28F308	2.77	2.64	2.50
GLR-10	10	28F034	2.41	2.30	2.18

FUSE HOLDER FOR GLR SERIES FUSES

Mfg. Part No.	Description	Stock No.	Price Each		
			1-9	10-49	50-99
● HLR	Holder & Lead	29M7932	3.53	3.37	3.19

(2349)

FAST-ACTING FUSES

Miniature fuse links feature a ceramic tube (nontransparent). Dimensions: ¼ dia. x 1¼" (6.35 x 32mm). UL recognized.



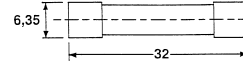
Mfg. Part No.	Current Rating	Max. Voltage Drop (V)	Voltage Rating (V)	Stock No.	Price Each	
					1-249	250-499
70-065-63 0.5A.	500mA	2000	500	08WX5696	0.56	0.42
70-065-63 1A.	1A	700	500	08WX5690	0.52	0.39
70-065-63 2A.	2A	400	500	08WX5693	0.52	0.39
70-065-63 3A.	3A	400	500	08WX5694	0.57	0.43
70-065-63 4A.	4A	250	500	46WX779	0.52	0.39
70-065-63 6.3A.	6.3A	200	500	46WX780	0.52	0.39
70-065-63 16A.	16A*	200	500	08WX5692	0.56	0.42

*When using this type, consideration should be given to heat dissipation.

(59685)

VERY FAST-ACTING FUSES

Interchangeable miniature very fast-acting fuses feature ceramic tubes (non transparent). Dimensions: ¼ dia. x 1¼" (6.35 x 32mm). UL recognized.



Mfg. Part No.	Current Rating (A)	Max. Voltage Drop (V)	Voltage Rating (V)	Stock No.	Price Each	
					1-99	100-249
70-125-40 1A.	1	1100	700	08WX5698	1.99	1.63
70-125-40 1.6A.	1.6	900	700	94B8257	1.25	0.98
70-125-40 2A.	2	800	700	08WX5702	1.25	0.98

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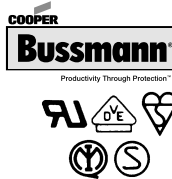
ELECTRONIC FERRULE FUSES

VERY FAST-ACTING FUSES (CONT.)

Mfg. Part No.	Current Rating (A)	Max. Voltage Drop (V)	Voltage Rating (V)	Stock No.	Price Each	
					1-99	100-249
70-125-40 2.5A	2.5	800	500	19C6358	9.72	7.98
70-125-40 3.15A	3.15	700	500	19C6359	9.72	7.98
70-123-40 4A	4	500	500	91C4547	1.25	0.98
70-125-40 5A	5	400	500	19C6361	9.72	7.98
70-125-40 6.3A	6.3*	400	500	19C6362	17.81	16.28
70-125-40 8A	8*	350	500	08WX5706	1.99	1.63
70-125-40 10A	10*	350	500	19C6355	17.81	16.28
70-125-40 12.5A	12.5*	300	500	19C6356	17.81	16.28

*When using this type, consideration should be given to heat dissipation. (59775)

S505 SERIES TIME-DELAY 5x20mm CERAMIC FUSES



- Designed to IEC 60127-2 (1A-6.3A)
- UL Recognized (1A-10A)
- Semko Approved (1A-10A)
- VDE Approved (1.25A-10A)
- BSI Approved (1.25A-10A)



Time-delay, low-breaking capacity. Ceramic tube, nickel-plated brass endcap construction.

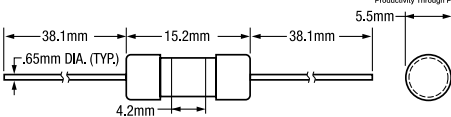
Mfg. Part No.	Current Rating	Voltage Rating (AC)	Stock No.	Price Each		
				1-9	10-49	50-99
● S505-500MA-R	500mA	250	48K9932	0.76	0.72	0.69
● S505-800MA-R	800mA	250	48K9935	0.88	0.84	0.80
● S505-1-R	1A	250	48K9925	0.88	0.84	0.80
● S505-1.25-R	1.25A	250	48K9923	0.88	0.84	0.80
● S505-1.6-R	1.6A	250	48K9924	0.88	0.84	0.80
● S505-2-R	2A	250	48K9928	0.88	0.84	0.80
● S505-2.5-R	2.5A	250	48K9927	0.76	0.72	0.69
● S505-3.15-R	3.15A	250	48K9929	0.88	0.84	0.80
● S505-4-R	4A	250	48K9930	0.88	0.84	0.80
● S505-5-R	5A	250	48K9931	0.88	0.84	0.80
● S505-6.3-R	6.3A	250	48K9933	0.88	0.84	0.80
● S505-8A-R	8A	250	48K9934	1.11	1.06	1.01
● S505-10-R	10A	250	48K9926	1.11	1.06	1.01

(12126)

FAST-ACTING 5 x 15mm CERAMIC FUSE



- UL Listed
- UL Recognized
- CSA Certified

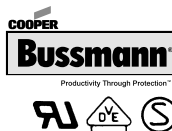


Axial leaded, fast-acting. Glass tube, nickel-plated brass endcap construction. Sold in multiples of 5.

Mfg. Part No.	Current Rating (A)	Voltage Rating (AC)	Stock No.	Price Each		
				1-9	10-49	50-99
● C517-3-R	3	350	48K9435	2.03	1.92	1.83

(16626)

S501 SERIES FAST-ACTING 5 x 20mm CERAMIC FUSES



- Designed to IEC 60127-2
- UL Recognized (50mA and 315mA-10A)
- Semko Approved (50mA, 160mA-10A)
- VDE Approved (1.25A-10A)

Fast-acting. Ceramic tube, nickel brass endcap construction. S501-V series with 0.032" x 1.5" copper tinned axial leads also available; go online or call.

Mfg. Part No.	Current Rating	Voltage Rating (AC)	Stock No.	Price Each		
				1-49	50-99	100-249
● S501-50MA-R	50mA	250	48K9916	1.10	1.05	1.01
● S501-63MA-R	63mA	250	48K9919	1.11	1.06	1.01
● S501-80MA-R	80mA	250	48K9921	1.11	1.06	1.01
● S501-100MA-R	100mA	250	48K9904	0.95	0.90	0.86
● S501-125MA-R	125mA	250	48K9905	0.95	0.90	0.86
● S501-160MA-R	160mA	250	48K9906	0.95	0.90	0.86
● S501-200MA-R	200mA	250	48K9909	0.95	0.90	0.86
● S501-250MA-R	250mA	250	48K9910	0.95	0.90	0.86
● S501-500MA-R	500mA	250	48K9917	0.79	0.75	0.72

➔ CONTINUED ➔

S501 SERIES FAST-ACTING 5 x 20mm CERAMIC FUSES (CONT.)

Mfg. Part No.	Current Rating	Voltage Rating (AC)	Stock No.	Price Each		
				1-49	50-99	100-249
● S501-800MA-R	800mA	250	48K9922	0.79	0.75	0.72
● S501-1-R	1A	250	48K9903	0.75	0.71	0.68
● S501-1.25-R	1.25A	250	48K9901	0.75	0.71	0.68
● S501-1.6-R	1.6A	250	48K9902	0.75	0.71	0.68
● S501-2-R	2A	250	48K9908	0.79	0.75	0.72
● S501-2.5-R	2.5A	250	48K9907	0.75	0.71	0.68
● S501-3.15-R	3.15A	250	48K9911	0.75	0.71	0.68
● S501-4-R	4A	250	48K9913	0.79	0.75	0.72
● S501-5-R	5A	250	48K9915	0.79	0.75	0.72
● S501-6.3-R	6.3A	250	48K9918	0.75	0.71	0.68

(85827)

216 SERIES 5 X 20MM FAST-ACTING CARTRIDGE FUSES



- UL Recognized (50mA - 10A)
- CSA Certified (50mA - 10A)
- CE Compliant (50mA - 12A)
- British BSI License (1A - 6.3A)
- Swedish File (32mA - 6.3A)



216 series fast-acting fuses with 1500A interrupting rating. Ceramic body material. Designed to international IEC standards for use globally. Meet IEC 60127-2, Sheet 1 specifications for fast-acting fuses. Axial lead formats also available; go online or call. Available in ratings of 0.050A to 10A. Go online or call for details. RoHS compliant.

Mfg. Part No.	Current Rating	Volts	Stock No.	Price Each			
				1-99	100-249	250-499	500-999
● 216.050XP	50mA	250	26K7924	1.11	1.06	1.01	0.92
● 216.063XP	63mA	250	26K7926	1.11	1.06	1.01	0.92
● 216.080XP	80mA	250	26K7928	0.88	0.84	0.80	0.73
● 216.100XP	100mA	250	26K7930	0.88	0.84	0.80	0.73
● 216.125XP	125mA	250	26K7932	0.88	0.84	0.80	0.73
● 216.160XP	160mA	250	26K7934	0.88	0.84	0.80	0.73
● 216.200XP	200mA	250	26K7936	0.88	0.84	0.80	0.73
● 216.250XP	250mA	250	26K7938	0.88	0.84	0.80	0.73
● 216.315XP	315mA	250	26K7940	0.88	0.84	0.80	0.73
● 216.400XP	400mA	250	26K7942	0.88	0.84	0.80	0.73
● 216.500XP	500mA	250	26K7944	0.88	0.84	0.80	0.73
● 216.630XP	630mA	250	26K7946	0.88	0.84	0.80	0.73
● 216.800XP	800mA	250	26K7948	0.88	0.84	0.80	0.73
● 216001.XP	1A	250	26K7950	0.80	0.76	0.72	0.66
● 2161.25XP	1.25A	250	26K7968	0.80	0.76	0.72	0.66
● 21601.6XP	1.6A	250	26K7960	0.80	0.76	0.72	0.66
● 216002.XP	2A	250	26K7952	0.80	0.76	0.72	0.66
● 21602.5XP	2.5A	250	26K7964	0.80	0.76	0.72	0.66
● 2163.15XP	3.15A	250	26K7970	0.80	0.76	0.72	0.66
● 216004.XP	4A	250	26K7954	0.80	0.76	0.72	0.66
● 216005.XP	5A	250	26K7956	0.80	0.76	0.72	0.66
● 21606.3XP	6.3A	250	26K7966	0.80	0.76	0.72	0.66
● 216008.XP	8A	250	26K7958	0.80	0.76	0.72	0.66
● 216010.XP	10A	250	26K7962	0.80	0.76	0.72	0.66

(85668)

SP/SPT SERIES 250V 5 x 20mm FUSES



- High-breaking
- Rated current: 500mA to 16A
- Time/current action: quick-acting (SP series); time-delay (SPT series)
- Breaking capacity UL: 10,000/125 V, p.f. 0.7 - 0.8
- Breaking capacity IEC/UL: 1,500A/250 V, p.f. 0.7 - 0.8
- Size: 5 x 20mm

Pigtail leads optional. For other ratings; go online or call Newark.

SP SERIES FAST ACTING FUSES

Mfg. Part No.	Current Rating (A)	Stock No.	Price Each	
			1-49	50-99
● 0001.1004	1	04F934	0.46	0.39
● 0001.1007	2	04F937	0.46	0.39
● 0001.1010	4	04F940	0.46	0.39
● 0001.1011	5	04F941	0.46	0.39
● 0001.1012	6.3	04F924	0.46	0.39
● 0001.1014	10	93K7607	0.45	0.39
● 0001.1016	16	93K7608	0.49	0.43

➔ CONTINUED ➔

ELECTRONIC FERRULE FUSES

SP/SPT SERIES 250V 5 x 20mm FUSES (CONT.)

SPT SERIES TIME DELAY FUSES

Mfg. Part No.	Current Rating (A)	Stock No.	Price Each	
			1-49	50-99
● 0001.2504	1	88F3636	0.45	0.38
● 0001.2507	2	25C7712	0.45	0.38
● 0001.2509	3.15	98B9731	0.45	0.38
● 0001.2510	4	25C7776	0.45	0.38
● 0001.2513	8	88F4533	0.45	0.38
● 0001.2515	12.5	50B7021	0.48	0.41
● 0001.2516	16	92B5520	0.48	0.41

(69207)

MDA SERIES TIME-DELAY
¼ x 1¼" CERAMIC FUSES

- UL Listed (2/10-20A)
- UL Recognized (25-30A)
- CSA Certified (2/10-15A)

Time-delay. Ceramic tube, nickel-plated brass endcap construction. MDA-V series with 0.032" x 1.5" copper tinned axial leads also available; go online or call.



Mfg. Part No.	Current Rating (A)	Voltage Rating (AC)	Voltage Rating (DC)	Stock No.	Price Each		
					1-99	100-249	250-499
● MDA-1/16-R	1/16	250	...	48K9684	3.89	3.46	3.28
● MDA-1/10-R	1/10	250	...	48K9683	2.87	2.55	2.42
● MDA-1/8-R	1/8	250	...	48K9687	2.87	2.55	2.42
● MDA-2/10-R	2/10	250	...	48K9694	2.87	2.55	2.42
● MDA-1/4-R	1/4	250	...	48K9686	1.23	1.09	1.04
● MDA-4/10-R	4/10	250	...	48K9702	1.05	0.93	0.88
● MDA-1/2-R	1/2	250	...	48K9685	1.50	1.33	1.26
● MDA-6/10-R	6/10	250	...	48K9706	1.05	0.93	0.88
● MDA-3/4-R	3/4	250	...	48K9699	1.05	0.93	0.88
● MDA-8/10-R	8/10	250	...	48K9709	1.05	0.93	0.88
● MDA-1-R	1	250	...	48K9679	1.05	0.93	0.88
● MDA-1-1/4-R	1 1/4	250	...	48K9681	1.05	0.93	0.88
● MDA-1-1/2-R	1 1/2	250	...	48K9680	1.05	0.93	0.88
● MDA-1-6/10-R	1 6/10	250	...	48K9682	1.05	0.93	0.88
● MDA-2-R	2	250	...	48K9691	1.05	0.93	0.88
● MDA-2-1/2-R	2 1/2	250	...	48K9692	1.05	0.93	0.88
● MDA-2-8/10-R	2 8/10	250	...	48K9693	1.05	0.93	0.88
● MDA-3-R	3	250	...	48K9697	1.05	0.93	0.88
● MDA-3-2/10-R	3 2/10	250	...	48K9698	1.05	0.93	0.88
● MDA-4-R	4	250	...	48K9701	1.05	0.93	0.88
● MDA-5-R	5	250	...	48K9703	1.05	0.93	0.88
● MDA-6-R	6	250	...	48K9704	1.05	0.93	0.88
● MDA-6-1/4-R	6 1/4	250	...	48K9705	1.05	0.93	0.88
● MDA-7-R	7	250	...	48K9707	1.05	0.93	0.88
● MDA-8-R	8	250	...	48K9708	1.05	0.93	0.88
● MDA-10-R	10	250	...	48K9688	1.05	0.93	0.88
● MDA-12-R	12	250	...	48K9689	1.05	0.93	0.88
● MDA-15-R	15	250	...	48K9690	1.05	0.93	0.88
● MDA-20-R	20	250	125	48K9695	1.05	0.93	0.88
● MDA-25-R	25	250	125	48K9696	1.05	0.93	0.88
● MDA-30	30	250	125	28F025	1.32	1.18	1.12

(2421)

326P SERIES 3AB SLO-BLO®
CARTRIDGE FUSES

- UL listed (125mA - 10A)
- UL recognized (12A - 30A)
- CSA certified (125mA - 30A)
- CE compliant (125mA - 30A)

326P series 3AB Slo-Blo® cartridge fuses permit higher interrupting rating and voltage rating. Ideal for applications where high-current loads are expected. Ceramic body. Available ratings: 0.010 to 30A. Interrupting ratings: 0.010-20A, 10,000A at 125 VAC; 25-30A at 400A at 250 VAC, 0.010-3.2A, 100A at 250 VAC, 4-20A, 400A at 250 VAC.



Mfg. Part No.	Current Rating	Voltage Rating (V)	Stock No.	Price Each		
				1-9	10-49	50-99
● 326.010P	10mA	250	26K8669	2.30	2.19	2.08
● 326.031P	31.25mA	250	26K8670	2.30	2.19	2.08
● 326.062P	62.5mA	250	26K8671	2.30	2.19	2.08
● 326.100P	100mA	250	26K8672	2.30	2.19	2.08
● 326.125P	125mA	250	26K8673	2.30	2.19	2.08
● 326.150P	150mA	250	26K8674	2.30	2.19	2.08
● 326.175P	175mA	250	26K8675	1.04	0.99	0.94
● 326.187P	187mA	250	26K8676	1.04	0.99	0.94
● 326.200P	200mA	250	26K8677	1.04	0.99	0.94
● 326.250P	250mA	250	26K8678	1.04	0.99	0.94

▶ CONTINUED ▶

326P SERIES 3AB SLO-BLO® CARTRIDGE FUSES (CONT.)

Mfg. Part No.	Current Rating	Voltage Rating (V)	Stock No.	Price Each		
				1-9	10-49	50-99
● 326.300P	300mA	250	26K8679	1.04	0.99	0.94
● 326.375P	375mA	250	26K8680	1.04	0.99	0.94
● 326.400P	400mA	250	26K8681	1.04	0.99	0.94
● 326.500P	500mA	250	26K8682	1.04	0.99	0.94
● 326.600P	600mA	250	26K8683	1.04	0.99	0.94
● 326.700P	700mA	250	26K8684	1.04	0.99	0.94
● 326.750P	750mA	250	26K8685	1.04	0.99	0.94
● 326.800P	800mA	250	26K8686	1.04	0.99	0.94
● 326001P	1A	250	26K8687	1.04	0.99	0.94
● 32601.2P	1.2A	250	26K8694	1.04	0.99	0.94
● 3261.25P	1.25A	250	26K8706	1.04	0.99	0.94
● 32601.5P	1.5A	250	26K8695	1.04	0.99	0.94
● 32601.6P	1.6A	250	26K8696	1.04	0.99	0.94
● 326002P	2A	250	26K8688	1.04	0.99	0.94
● 32602.5P	2.5A	250	26K8700	1.04	0.99	0.94
● 32602.8P	2.8A	250	26K8701	1.04	0.99	0.94
● 326003P	3A	250	26K8689	1.04	0.99	0.94
● 32603.2P	3.2A	250	26K8704	1.04	0.99	0.94
● 326004P	4A	250	26K8690	1.04	0.99	0.94
● 326005P	5A	250	26K8691	1.04	0.99	0.94
● 3266.25P	6.25A	250	26K8707	1.04	0.99	0.94
● 326007P	7A	250	26K8692	1.04	0.99	0.94
● 326008P	8A	250	26K8693	1.04	0.99	0.94
● 326010P	10A	250	26K8697	1.04	0.99	0.94
● 326012P	12A	250	26K8698	1.04	0.99	0.94
● 326015P	15A	250	26K8699	1.04	0.99	0.94
● 326020P	20A	250	26K8702	1.04	0.99	0.94
● 326025P	25A	125	26K8703	1.04	0.99	0.94
● 326030P	30A	125	26K8705	1.04	0.99	0.94

(85692)

215 SERIES 5x20mm SLO-BLO®
CARTRIDGE FUSES

- UL recognized (50mA - 12A)
- CSA certified (50mA - 12A)
- CE compliant (200mA - 12A)
- British BSI licence (200mA - 6.3A)
- Swedish file (200mA - 10A)



215 series Slo-Blo® cartridge fuses with 1500A interrupting rating. Ceramic body material. Designed to international IEC standards for use globally. Meet IEC 60127-2, Sheet 5 specifications for time-lag fuses. Available ratings: 0.02A to 10A.

Mfg. Part No.	Current Rating	Voltage Rating (V)	Stock No.	Price Each		
				1-9	10-49	50-99
● 0215.200XP	200mA	250	26K7611	1.01	0.96	0.92
● 0215.250XP	250mA	250	26K7613	1.01	0.96	0.92
● 0215.315XP	315mA	250	26K7615	1.01	0.96	0.92
● 0215.400XP	400mA	250	26K7617	1.01	0.96	0.92
● 0215.500XP	500mA	250	26K7619	1.01	0.96	0.92
● 0215.630XP	630mA	250	26K7621	1.01	0.96	0.92
● 0215.800XP	800mA	250	26K7623	1.01	0.96	0.92
● 0215001.XP	1A	250	26K7625	1.03	0.98	0.94
● 02151.25XP	1.25A	250	26K7645	1.03	0.98	0.94
● 021501.6XP	1.6A	250	26K7635	1.03	0.98	0.94
● 0215002.XP	2A	250	26K7627	1.03	0.98	0.94
● 021502.5XP	2.5A	250	26K7641	1.03	0.98	0.94
● 02153.15XP	3.15A	250	26K7647	1.03	0.98	0.94
● 0215004.XP	4A	250	26K7629	1.03	0.98	0.94
● 0215005.XP	5A	250	26K7631	1.03	0.98	0.94
● 021506.3XP	6.3A	250	26K7643	1.03	0.98	0.94
● 0215008.XP	8A	250	26K7633	1.03	0.98	0.94
● 0215010.XP	10A	250	26K7637	1.03	0.98	0.94

(85666)

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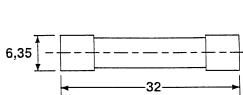


(94656)

ELECTRONIC FERRULE FUSES • BLADE FUSES • FUSE ASSORTMENT KITS

TIME-LAG FUSES

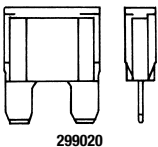
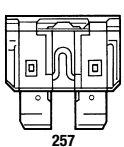
Miniature time-lag fuses feature ceramic tubes (non-transparent). Dimensions: ¼ dia. x 1¼" (6.35 x 32mm). UL recognized.



Mfg. Part No.	Current Rating	Max. Voltage Drop (V)	Voltage Rating (V)	Stock No.	Price Each	
					1-49	50-99
70-065-65 0.5A.	500mA	800	500	19C7465	2.58	2.12
70-065-65 1A.	1A	500	500	19C7466	0.67	0.50
70-065-65 2A.	2A	300	500	19C7470	4.26	3.50
70-065-65 2.5A.	2.5A	300	500	19C7471	4.05	3.33
70-065-65 3.15A.	3.15A	250	500	19C7474	4.05	3.33
70-065-65 4A.	4A	200	500	19C7475	4.26	3.50
70-065-65 5A.	5A	150	500	19C7476	4.05	3.33
70-065-65 6.3A.	6.3A	150	500	19C7477	0.67	0.50
70-065-65 8A.	8A*	150	500	19C7478	4.26	3.50
70-065-65 10A.	10A*	150	500	19C7467	4.26	3.50
70-065-65 12.5A.	12.5A*	150	500	19C7468	2.58	2.12
70-065-65 16A.	16A*	150	500	19C7469	4.05	3.33
70-065-65 20A.	20A*	150	440	19C7472	10.12	8.31
70-065-65 25A.	25A*	150	440	19C7473	11.34	9.30
70-065-65 32A.	32A*	150	250	19C6354	13.81	12.63

*When using this type, consideration should be given to heat dissipation. (59172)

AUTOMOTIVE BLADE FUSES



AUTOFUSE® FAST-ACTING ATO® BLADE FUSES

257 series compact fuses rated 32V and color-coded for easy amp identification. UL listed.

Mfg. Part No.	Current Rating (A)	Stock No.	Price Each		
			1-99	100-249	250-499
● 257003	3	94F2013	0.39	0.37	0.34
● 25707.5	7½	94F5927	0.39	0.37	0.34
● 257010	10	94F5925	0.34	0.32	0.30
● 257015	15	99F8135	0.39	0.37	0.34
● 257020	20	94F5884	0.39	0.37	0.34
● 257025	25	95F2051	0.39	0.37	0.34
● 257030	30	29C7076	0.39	0.37	0.34

MINI® FUSE AUTOMOTIVE BLADE FUSES

297 series blade fuses have same features as ATO® fuses, listed above, except in a smaller design. Heat-resistant housing ideal for engine compartments and other high-temperature areas. Color-coded. UL listed. Order in-line fuse holders separately; go online or call.

Mfg. Part No.	Current Rating (A)	Stock No.	Price Each			
			1-49	50-99	100-249	250-499
● 297003	3	95F2010	0.42	0.37	0.33	0.32
● 297005	5	95F2011	0.42	0.37	0.33	0.32
● 29707.5	7½	95F2012	0.37	0.32	0.29	0.28
● 297010	10	95F2013	0.42	0.37	0.33	0.32
● 297015	15	95F2014	0.42	0.37	0.33	0.32
● 297020	20	95F2015	0.42	0.37	0.33	0.32
● 297025	25	95F2016	0.42	0.37	0.33	0.32
● 297030	30	95F2024	0.42	0.37	0.33	0.32

MAXI™ FUSE AUTOMOTIVE BLADE FUSES

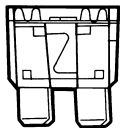
299000 series Maxi™ fuse blade fuses replace the commonly used fusible wire or fusible link to protect a high current segment or system of the wiring harness. For easy-access, under-the-hood fuse box installations.

Mfg. Part No.	Current Rat. (A)	Nom. Cold Resist. (mΩ)	Volt. Drop @ Rated Curr. (mV)	Min. Melting (I²t)	Max. Clear. (A²s)	Stock No.	Price Each		
							1-9	10-99	100-249
● 299020	20	3.1	76	1100	1550	91F3197	1.16	1.00	0.91
● 299030	30	2.0	77	4070	5620	91F3198	1.16	1.00	0.91
● 299040	40	1.4	75	8450	11900	91F3199	0.99	0.86	0.79
● 299050	50	1.1	73	11300	16300	91F3200	1.16	1.00	0.91
● 299060	60	0.9	77	15300	21900	91F3201	0.99	0.86	0.79
● 299070	70	0.7	73	6900	10100	91F3202	1.79	1.55	1.41
● 299080	80	0.6	79	8800	12700	91F3203	1.79	1.55	1.41

(9364)

ATC® SERIES FAST-ACTING AUTOMOTIVE BLADE FUSES

ATC® series auto fuses are color-coded by amp rating, 32VDC. Feature enclosed element that offers protection against shocks and sparks. Corrosion resistant for longer service life. UL listed.

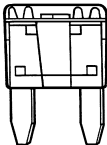


Mfg. Part No.	Color	Current Rating (A)	Stock No.	Price Each			
				1-99	100-249	250-499	500-999
● ATC-3 VIOLET	Violet	3	97F7596	0.37	0.35	0.33	0.30
● ATC-4	Pink	4	02J8571	0.37	0.35	0.33	0.30
● ATC-5 TAN	Tan	5	97F7598	0.37	0.35	0.33	0.30
● ATC-7 1/2 BROWN	Brown	7½	97F7599	0.37	0.35	0.33	0.30
● ATC-10 RED	Red	10	97F7600	0.37	0.35	0.33	0.30
● ATC-15 BLUE	Blue	15	97F7601	0.37	0.35	0.33	0.30
● ATC-20 YELLOW	Yellow	20	97F7602	0.37	0.35	0.33	0.30
● ATC-25 WHITE	White	25	97F7603	0.37	0.35	0.33	0.30
● ATC-30 GREEN	Green	30	97F7604	0.37	0.35	0.33	0.30
● ATC-40	Orange	40	02B2118	0.37	0.35	0.33	0.30

(2374)

ATM® SERIES MINI®-FUSE FAST-ACTING AUTOMOTIVE BLADE FUSES

ATM® series miniature auto blade fuses are rated 32V. Interrupting rating: 1000A. Enclosed element offers protection against shocks and sparks. Corrosion resistant for longer service life. Color-coded by amp rating.



Mfg. Part No.	Color	Current Rating (A)	Stock No.	Price Each			
				1-9	10-49	50-99	100-249
● ATM-2	Gray	2	97F7587	0.50	0.45	0.40	0.39
● ATM-3	Violet	3	96C9073	0.50	0.45	0.40	0.39
● ATM-4	Pink	4	97F7589	0.50	0.45	0.40	0.39
● ATM-5	Tan	5	97F7590	0.50	0.45	0.40	0.39
● ATM-7 1/2	Brown	7½	97F7591	0.50	0.45	0.40	0.39
● ATM-10	Red	10	97F7592	0.50	0.45	0.40	0.39
● ATM-15	Light Blue	15	97F7593	0.50	0.45	0.40	0.39
● ATM-20	Yellow	20	97F7594	0.50	0.45	0.40	0.39
● ATM-25	Clear	25	97F7595	0.50	0.45	0.40	0.39
● ATM-30	Green	30	97F7605	0.50	0.45	0.40	0.39

(55473)

BUSS® 140-PIECE FUSE KIT

140-piece assortment of ¼ x 1¼" fuses includes 1/2A to 30A fuses, plus 2 fuse holders, fuse clips and 1 fuse puller. Rugged nylon case with positive closure. Ideal for factory or field-service use.



Mfg. Part No.	Description	Stock No.	Price Each
NO. 140	¼ x 1¼" Fuse Kit	89F1893	202.07

(2327)

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(94640)

FUSE ASSORTMENT KITS • HIGH SPEED FUSES

BUSS® 270-PIECE FUSE KIT

Diverse kit contains 59 different products including 270 fuses: 1/4 x 1 1/4" and 5 x 20mm fuses in the 1/2 to 30A range; small dimension 125V and 250V fuses; fast-acting, time-delay and pigtail-lead fuses; 7 fuse holders and fuse clips. Clear-plastic case. Comes with complete application and cross-reference data.



Mfg. Part No.	Description	Stock No.	Price Each
270	270-Piece Fuse Kit	87F2357	364.78

BUSS® 220-PIECE FUSE KIT

220-piece kit contains 5 x 20mm fuses in 630mA to 10A range, plus 2 fuse holders, 2 fuse blocks and 1 fuse puller. Tough, yellow case with positive closure. Ideal for factory or field-service use.



Mfg. Part No.	Description	Stock No.	Price Each
220	5 x 20mm Fuse Kit	95F3864	435.12

FUSE ASSORTMENT KITS

ELECTRONIC FUSE KIT

Ideal for schools, hospitals, plants, R&D labs and maintenance departments. Features 280 popular fuses in a wide assortment of 3AG (1/4-8A), 2AG glass (1/2-3A), 5 x 20mm (1/2-6.3A), 3AB ceramic (10-30A), fast-acting and Slo-Blo® fuses. Also includes 10 variations of fuse clips, fuse blocks, panel mount and in-line fuse holders. Comes with plastic storage case and cross reference information.



Mfg. Part No.	Description	Stock No.	Price Each
094376	Electronic Fuse Kit	90F9123	513.92

ECONOMICAL FUSE KIT

Features 150 popular fuses in an assortment of 3AG (1/2-10A), 5 x 20mm (1/2-6.3A), and 3AB ceramic (10-20A), fast-acting and Slo-Blo® fuses. Plus 5 variations of fuse holders, fuse clips and fuse blocks. Includes a rugged, clear plastic storage case.

940377	Economical Fuse Kit	90F9124	191.23
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PC MOUNT FUSE KIT

Features the most popular PC mountable fuses, fuse holders, fuse blocks and fuse clips available. Ideal for engineering departments and R&D labs. Each kit contains an assortment of 200 picofuses (1/8-7A), microfuses (1/4-5A), 3AG pigtail (1/4-5A), 2AG pigtail (1/4-7A) and 3AB ceramic pigtail (10-20A), fast-acting and Slo-Blo® fuses. Plus 10 variations of PC mountable fuse holders, fuse blocks and fuse clips. Includes a rugged, clear plastic storage case.

940378	PC Mount Fuse Kit	90F9125	492.41
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INDUSTRIAL FUSE CADDY KIT

Contains an assortment of 75 universally popular 3AG fast-acting and Slo-Blo® fuses (15 boxes of 5 fuses each). Packaged in a handy, durable plastic caddy case. Caddy case also available separately.

00940037Z	Industrial Fuse Kit	27F677	65.08
896-075	Caddy Case Only	27F809	4.87

RESETTABLE PTC DESIGN KIT

This kit provides a wide assortment of resettable PTC products. The PTC is a unique polymer device that trips during an overload to limit current flow in the circuit and resets after the overload current is removed. This kit contains both surface mount and radial leaded product, of various voltage and current ratings.

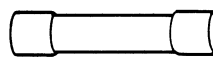
940463	Resettable PTC Design Kit	48F1874	382.45
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AUTOMOTIVE FUSE KIT

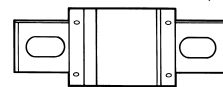
Ideal for automotive maintenance departments. Each kit contains an assortment of 300 ATO blade fuses (3-30A), SFE and 3AG glass fuses (4-30A) and GBC ceramic fuses (5-25A) for use in all American, European and Japanese vehicles. Also includes 10 variations of fuse blocks and in-line fuse holders. Packaged in a sturdy, clear plastic storage case.

940379	Automotive Fuse Kit	90F9126	141.02
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FWX AND FWP SERIES HIGH-SPEED SEMICONDUCTOR FUSES



Ferrule



Stud Mount

High-speed fuses protect SCRs, diodes and other semiconductor devices. **FWX series** available in 4 voltage ratings: 150, 250, 500, 750VAC. Ampere ratings: 1 to 1000A. **FWP series** rated 660/700V. Ampere ratings: 1-50A. Additional ratings available *go online or call*.

FWX SERIES 14 x 51mm FERRULE FUSE

Mfg. Part No.	Current Rating (A)	Voltage Rating (V)	Stock No.	Price Each		
				1-9	10-49	50-99
FWX-20A14F	20	250	95F3871	15.19	14.75	14.02

FWP SERIES 14 x 51mm FERRULE FUSE

FWP-30A14F	30	700	02B3084	26.30	25.54	24.27
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FWX SERIES 0.81 x 1.59" STUD MOUNT FUSE

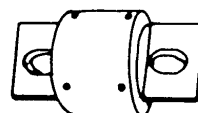
FWX-60A	60	250	95F3874	59.03	57.33	54.49
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FWX SERIES 1.22 x 1.59" STUD MOUNT FUSES

FWX-70A	70	250	02B3137	71.06	69.01	65.59
FWX-100A	100	250	95F3875	71.06	69.01	65.59

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L25S SERIES SEMICONDUCTOR FUSES

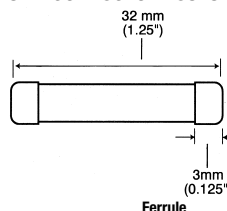


Designed for supplementary protection of semiconductor devices such as silicon-controlled rectifiers (SCRs), diodes, thyristors, triacs, transistors and similar solid-state components. Ideal for extremely fast-acting current limiting applications. AC interrupting rating: 200,000 RMS amperes. Short circuit protection only, not for overload.

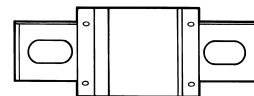
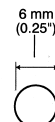
Mfg. Part No.	Current Rating (A)	Voltage Rating (V)	Stock No.	Price Each			
				1-9	10-49	50-99	100-249
L25S035	35	250	81F4155	59.60	56.76	53.93	49.39
L25S040	40	250	81F4156	59.60	56.76	53.93	49.39
L25S050	50	250	81F4158	59.60	56.76	53.93	49.39
L25S060	60	250	81F4159	59.60	56.76	53.93	49.39

(9176)

FWH SERIES HIGH-SPEED SEMICONDUCTOR FUSES



Ferrule



Stud Mount

FWH series ferrule style high speed fuses are rated 500V and available from 250mA to 200A. **FWH series** stud mount high speed fuses are rated 500V and available from 35A to 1600A. High speed fuses protect SCRs, diodes and other semiconductor devices. UL recognized.

1/4 x 1 1/4" (6 x 32mm) FERRULE FUSES

Mfg. Part No.	Current Rating	Voltage Rating (V)	Stock No.	Price Each		
				1-9	10-49	10-49
FWH-500A6F	500mA	500	91F4736	14.44	14.06	11.58
FWH-001A6F	1A	500	91F4737	14.44	14.06	11.58
FWH-002A6F	2A	500	91F4738	12.35	12.03	9.90
FWH-3.15A6F	3.15A	500	91F4739	14.44	14.06	11.58
FWH-6.30A6F	6.3A	500	91F4740	14.44	14.06	11.58
FWH-010A6F	10A	500	91F4742	14.44	14.06	11.58
FWH-016A6F	16A	500	91F4745	14.44	14.06	11.58

0.813 x 1.593" STUD MOUNT FUSES

FWH50A	50A	500	50F2992	57.57	56.05	46.16
FWH-60A	60A	500	50F3613	62.88	61.22	50.42

1.156 x 1.836" STUD MOUNT FUSES

FWH-80A	80A	500	50F3614	73.03	71.10	58.55
FWH-100A	100A	500	94F2217	73.03	71.10	58.55
FWH-125A	125A	500	94F2218	87.63	85.31	70.26
FWH-125B	125A	500	02B3010	75.41	73.42	60.46

➤ CONTINUED ➤

HIGH SPEED FUSES • INDICATOR FUSES • ELECTRICAL POWER FUSES

FWH SERIES HIGH-SPEED SEMICONDUCTOR FUSES (CONT.)

1.156 x 1.836" STUD MOUNT FUSES

Mfg. Part No.	Current Rating	Voltage Rating (V)	Stock No.	Price Each		
				1-9	10-49	10-49
FWH-150A	150A	500	94F2450	111.64	108.69	89.51
FWH-200A	200A	500	94F2219	111.64	108.69	89.51

1.5 x 2.09" STUD MOUNT FUSES

(13049)

70 SERIES TELECOM INDICATING FUSES



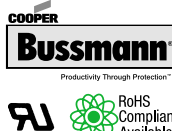
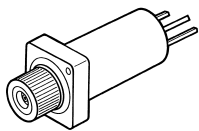
70 series telepower visual-indicating fuses with remote electrical alarm capability. Color-coded for amp ratings. UL recognized. 125VAC, 300VDC ratings. Order fuseholder separately; go online or call.

Mfg. Part No.	Color Code	Stock No.	Price Each		
			1-24	25-49	50-99
70A-1-1/3	White	28F390	17.60	15.40	13.56
70B-2	Orange	28F127	17.60	15.40	13.56
70D-5	Green/Black	28F140	17.60	15.40	13.56
70L-6A	Green/White	08J0058	7.18	6.28	5.54
70M-8A	Brown/White	08J0059	18.44	16.13	14.21
70N-10A	Violet/Yellow	08J0060	7.76	6.79	5.98

(2338)

FUSE HOLDER FOR 70 SERIES TELECOM FUSES

Panel mount fuse holder, rated 300V, 12A. Copper alloy, tin-plated terminals. UL recognized. UL94V-0 flammability rating. Comes with 2 screws. Order 70 series telecom indicating fuses separately on this page.

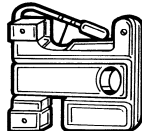


Mfg. Part No.	Stock No.	Price Each			
		1-9	10-49	50-99	100-249
● 15087	70B8422	148.04	140.85	134.38	122.88

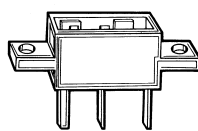
(2339)

GMT SERIES FAST-ACTING TELECOMMUNICATIONS INDICATING FUSES

GMT series indicating fuses are designed for telecommunications, computer and control circuit applications. Feature visual spring indication and alarm circuit activation. Rated 125VAC, 60VDC. UL recognized. Mount in mfg. part nos. HLT and HLS fuse holders; order separately below. Sold in multiples of 5.



GMT



HLT Fuse Holder

INDICATING FUSES

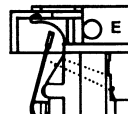
Mfg. Part No.	Color	Stock No.	Price Each		
			1-9	10-99	100-249
● GMT-1/4A	Violet	28F316	2.14	1.95	1.84
● GMT-1/2A	Red	28F317	2.14	1.95	1.84
● GMT-65/100A	Black	96C9283	2.01	1.83	1.73
● GMT-3/4A	Brown	03J3198	2.14	1.95	1.84
● GMT-1A	Gray	28F320	2.14	1.95	1.84
● GMT-1 1/3A	White	28F321	2.14	1.95	1.84
● GMT-1 1/2A	White/Yellow	96C9281	2.14	1.95	1.84
● GMT-2A	Orange	28F322	2.14	1.95	1.84
● GMT-3A	Blue	28F323	2.14	1.95	1.84
● GMT-4A	White/Brown	07J9987	2.14	1.95	1.84
● GMT-5A	Green	28F324	2.14	1.95	1.84
● GMT-7 1/2A	Black/White	96C9284	2.14	1.95	1.84
● GMT-10A	Red/White	28F326	2.14	1.95	1.84
● GMT-12A	Yellow/Green	95F5184	1.71	1.56	1.48
● GMT-15A	Red/Blue	27C1011	2.14	1.95	1.84
GMT-DUMMY	Gray	94B1132	0.88	0.80	0.75

FUSE HOLDERS FOR GMT SERIES FUSES

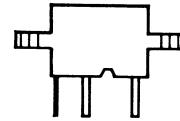
Mfg. Part No.	Mounting	Stock No.	Price Each		
			1-9	10-99	100-249
HLT	PC Board Thru Hole	28F360	2.54	2.32	2.19
● HLT-10	PC Board Thru Hole	07J9988	35.73	32.59	30.78
HLS	Panel Mount	95F3885	1.97	1.80	1.70

(2336)

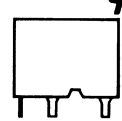
481 SERIES ALARM INDICATING TYPE FUSES AND 482 SERIES FUSE HOLDERS



481



482 Panel Mount



482 PCB Mount

481 series indicating/alarm fuses available in 180mA to 20A ratings. Flammability rating: UL94V-0

Mfg. Part No.	Current Rating (A)	Color	Stock No.	Price Each			
				1-99	100-499	500-999	1000-1999
H481.250	1/4	Violet	91F3183	1.25	1.13	1.03	0.97
H481.500	1/2	Red	91F3184	1.25	1.13	1.03	0.97
H481001	1	Gray	91F3185	1.25	1.13	1.03	0.97
● H481005	5	Green	67K0282	1.25	1.13	1.03	0.97

482 SERIES FUSE HOLDERS

Available in 1-pole through 20-pole in PC board mount or panel mount.

Mfg. Part No.	Mount	Stock No.	Price Each			
			1-99	100-499	500-999	1000-1999
● 04820001VXP	Panel	48F1853	1.11	1.00	0.91	0.86
● 04820001VXB	PC Board	48F1833	1.11	1.00	0.91	0.86
● 04820020VXP	Panel	48F1872	22.16	19.89	18.18	17.05
● 04820020VXB	PC Board	48F1852	22.16	19.89	18.18	17.05

(9205)

KTK SERIES FAST-ACTING 13/32 x 1 1/2" FERRULE FUSES

KTK series melamine, Limitron® ferrule fuses rated 600V for circuits with high available short-circuit currents. Interrupting rating: 100,000AIC. UL listed, CSA certified.



Mfg. Part No.	Current Rating (A)	Stock No.	Price Each		
			1-9	10-99	100-249
KTK-1/10	1/10	28F190	14.90	14.05	13.35
KTK 2/10	2/10	50F2991	19.63	18.51	17.58
KTK-1/4	1/4	28F193	16.57	15.63	14.84
KTK-1/2	1/2	28F195	16.10	15.19	14.42
KTK-1	1	28F197	4.17	3.43	3.14
KTK-1 1/2	1 1/2	28F198	16.27	15.35	14.58
KTK-2	2	28F199	14.99	14.13	13.42
KTK-3	3	28F200	14.99	14.13	13.42
KTK-4	4	28F201	15.26	14.39	13.67
KTK-5	5	28F202	14.99	14.13	13.42
KTK-6	6	28F203	14.56	13.74	13.05
KTK-7	7	94F2098	17.62	16.62	15.79
KTK-8	8	28F204	15.26	14.39	13.67
KTK-10	10	28F205	14.99	14.13	13.42
KTK-12	12	94F2456	17.58	16.58	15.75
KTK-15	15	28F206	14.99	14.13	13.42
KTK-20	20	28F207	15.05	14.19	13.48
KTK-25	25	28F208	15.05	14.19	13.48
KTK-30	30	28F209	15.05	14.19	13.48

(2329)

BBS SERIES FAST-ACTING 13/32 x 1 3/8" FERRULE FUSES

BBS series ferrule fuses for control, gaseous vapor fixture, HID ballasts, electronic circuits. Fuses available from 3/10 - 5A. Voltage rating: 600VAC. UL listed, CSA certified.



Mfg. Part No.	Current Rating (A)	Stock No.	Price Each		
			1-9	10-49	50-99
BBS-1	1	70B8498	6.00	5.85	5.54
BBS2	2	94F2502	5.88	5.73	5.43
BBS-3	3	70B1128	5.88	5.73	5.43

(2373)

ELECTRICAL POWER FUSES

DMM-B SERIES FAST-ACTING FERRULE FUSES

- Designed for multi-meters only
- UL Recognized

Fast-acting. Melamine tube, nickel-plated brass end caps. Intended to carry 100% of rated current indefinitely. Not intended for branch circuit protection.

Mfg. Part No.	Current Rating	Voltage Rating (V)	Stock No.	Price Each		
				1-9	10-24	25-49
DMM-B-44/100	440mA	1000	96B8587	25.05	23.45	20.75
DMM-B-11A	11A	1000	24C9577	25.40	24.05	22.34

(87080)

NON SERIES GENERAL PURPOSE FUSES

- Protects lighting, heating and other circuit not subject to temporary surges
- For general purpose circuits, size at ampere rating of circuit
- For motor circuits, size at 300% to 400%

NON series is rated at 600 VAC (or less), and from 1 to 600 A. Termination: Ferrule.

Mfg Part No.	Current Rating (A)	Voltage Rating (AC)	Stock No.	Price Each
				1-9
NON-5	5	250	94F2253	2.76
NON-35	35	250	27F2446	4.07
NON-40	40	250	27F2447	4.12
NON-60	60	250	27F2450	4.05

(80054)

KLK SERIES FAST-ACTING AC FUSES



Current-limiting fuses with high-interrupting rating: 100,000A. Ideal for control circuits, street lighting, H.I.D. lighting and computers. UL listed, CSA certified.

Mfg. Part No.	Current Rating (A)	Voltage Rating (V)	Stock No.	Price Each		
				1-9	10-99	100+
KLK001	1	600	18M9127	13.64	12.07	11.01
KLK01.5	1½	600	81F2143	14.81	13.11	11.95
KLK002	2	600	81F2144	13.64	12.07	11.01
KLK003	3	600	18M9128	13.54	11.99	10.93
KLK005	5	600	18M9129	13.64	12.07	11.01
KLK006	6	600	81F2148	11.75	10.41	9.49
KLK008	8	600	18M9131	13.89	12.30	11.21
KLK010	10	600	81F2150	13.64	12.07	11.01
KLK015	15	600	81F2151	13.64	12.07	11.01
KLK020	20	600	81F2152	13.69	12.13	11.06
KLK025	25	600	18M9132	13.69	12.13	11.06
KLK030	30	600	81F2154	13.69	12.13	11.06

(9359)

KLK-D SERIES FAST-ACTING FUSES



Same as KLK series fuses, ordered separately on this page, except interrupting rating: 10,000A @ 600VDC; 100,000A @ 600VAC. UL listed, CSA certified.

Mfg. Part No.	Current Rating (A)	Voltage Rating (V)	Stock No.	Price Each		
				1-9	10-99	100+
KLKD.500	½	600	18M9124	19.78	17.51	15.97
KLKD001	1	600	95F841	18.36	16.26	14.82
KLKD005	5	600	95F848	18.65	16.51	15.05
KLKD008	8	600	18M9125	19.49	17.26	15.74
KLKD010	10	600	18M9126	18.61	16.48	15.02

(9360)



LP SERIES CLASS CC TIME-DELAY 1½/32 x 1½" LOW-PEAK® TIME-DELAY FUSES



LP-CC series 1½/32" x 1½" (10.3mm x 38.1mm) time-delay fuses are all-purpose, space-saving branch circuit fuses that meet most protection requirements up to 30A. Feature faster response to short-circuit currents and higher interrupting rating than mechanical overcurrent protective devices. Rated: 600VAC. Ratings available from ½-30A.



Mfg. Part No.	Current Rating (A)	Stock No.	Price Each		
			1-9	10-24	25-49
LP-CC-1/2	½	97F7582	18.80	17.80	16.53
LP-CC-1	1	97F7583	18.80	17.80	16.53
LP-CC-2	2	97F7580	18.80	17.80	16.53
LP-CC-3	3	95F3879	18.80	17.80	16.53
LP-CC-4	4	95F3881	18.80	17.80	16.53
LP-CC-5	5	95F3882	18.80	17.80	16.53
LP-CC-6	6	95F3883	20.12	19.06	17.69
LP-CC-8	8	52F5718	20.12	19.06	17.69
LP-CC-10	10	95F3884	18.80	17.80	16.53
LP-CC-12	12	95F3865	20.12	19.06	17.69
LP-CC-15	15	95F3866	18.80	17.80	16.53
LP-CC-20	20	95F3867	19.36	18.33	17.02
LP-CC-25	25	02B4549	20.12	19.06	17.69
LP-CC-30	30	95F3868	18.80	17.80	16.53

(79622)

SC SERIES FAST-ACTING FERRULE FUSES



SC series fast-acting ferrule fuses are ideal for branch circuits and supplementary protection. 1½/32" fuse diameter; length varies with electrical rating. Rated 300VAC. Interrupting rating: 100,000AIC. Amperage rating: 1/2 to 6 amperes (fast acting). Voltage ratings: SC ½ to 20, 600VAC, 170VDC. With 600 volt rating, they can be used in 125/208, 150/240 and 277/480 volt circuits. In general, SC fuses are about ½ the size of the 600 volt NEC fuse type. UL listed, Class G. CSA certified.

Mfg. Part No.	Current Rating (A)	Length	Stock No.	Price Each	
				1-9	10-49
SC-1	1	1½/32"	27F2421	8.63	8.24
SC-3	3	1½/32"	27F2422	9.74	9.26
SC-5	5	1½/32"	95F3886	8.66	8.24
SC-6	6	1½/32"	27F2423	8.11	7.74

(2348)

SC SERIES CLASS G TIME-DELAY FERRULE FUSES



SC series time-delay ferrule fuses are ideal for branch and supplementary protection. 1½/32" fuse diameter; length varies with electrical rating. Rated 300VAC. Interrupting rating: 100,000AIC. Amperage rating: ½-6A (fast-acting), 7-60A (time-delay). Voltage ratings: 480VAC, 300VDC except mfg. part nos. SC-10, SC-15 and SC-20 (600VAC, 170VDC). 600V rating: can be used in 125/208, 150/240 and 277/480 volt circuits. SC fuses are about ½ the size of 600V NEC fuse type. Ampere ratings above 6A have a degree of overload time-delay which permits them to pass temporary overloads. At 200% load, they have a minimum opening time of 12 seconds. UL listed, Class G. CSA certified.

Mfg. Part No.	Current Rating (A)	Length	Stock No.	Price Each	
				1-9	10-49
SC-10	10	1½/32" (33.2)	27F2424	7.50	7.25
SC-15	15	1½/32" (33.2)	27F2425	5.63	5.44
SC-20	20	1½/32" (35.8)	27F2426	5.92	5.72
SC-25	25	1½/32" (41.4)	27F2427	13.54	13.08
SC-30	30	1½/32" (41.4)	27F2428	10.54	10.18
SC-40	40	2¼" (57.1)	27F2429	11.70	11.30
SC-50	50	2¼" (57.1)	27F2430	13.23	12.78
SC-60	60	2¼" (57.1)	27F2431	11.43	11.04

(55371)

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(94645)

CIRCUIT PROTECTION

● Indicates RoHS Compliant

ELECTRICAL POWER FUSES

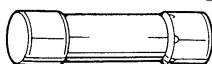
FNM SERIES
TIME-DELAY
1 $\frac{3}{32}$ x 1 $\frac{1}{2}$ " FUSES

FNM series fiber, dual-element Fusetron® fuses for circuits with high inrush currents. Rated 250V, except * 125V and † 32V. Fuse opening time: 4 hours, minimum @ 110% load; 1 hour, maximum @ 135% load.

Mfg. Part No.	Current Rating (A)	Stock No.	Price Each		
			1-9	10-99	100-249
FNM-1/2	1/2	27F863	6.90	6.56	6.25
FNM-6/10	6 $\frac{1}{10}$	94F2516	6.90	6.56	6.25
FNM-8/10	8 $\frac{1}{10}$	94F2517	6.90	6.56	6.25
FNM-1	1	27F864	6.52	6.20	5.90
FNM-1-1/4	1 $\frac{1}{4}$	94F2199	7.70	7.32	6.97
FNM-2	2	27F866	5.96	5.67	5.40
FNM-2 1/2	2 $\frac{1}{2}$	27F872	6.72	6.39	6.09
FNM-3	3	96F6103	6.22	5.91	5.63
FNM-3 2/10	3 $\frac{2}{10}$	27F867	6.36	6.05	5.76
FNM-4	4	27F868	6.22	5.91	5.63
FNM-5	5	27F869	5.96	5.67	5.40
FNM-6	6	02B2886	6.72	6.39	6.09
FNM-6 1/4	6 $\frac{1}{4}$	27F873	6.36	6.05	5.76
FNM-7	7	94F2203	6.36	6.05	5.76
FNM-8	8	27F874	6.22	5.91	5.63
FNM-10	10	27F870	5.96	5.67	5.40
FNM-12*	12	27F875	6.72	6.39	6.09
FNM-15*	15	27F876	5.96	5.67	5.40
FNM-20†	20	98F1097	6.22	5.91	5.63
FNM-25†	25	94F2200	7.06	6.71	6.39
FNM-30†	30	94F2202	6.22	5.91	5.63

(2333)

FLM SERIES SLO-BLO® FUSES



Time-delay 1 $\frac{3}{32}$ x 1 $\frac{1}{2}$ " fuses offer supplemental protection for small motors, control transformers, solenoids, circuits with high inrush currents. Interrupting rating: 10,000A.

Mfg. Part No.	Current Rating (A)	Voltage Rating (V)	Stock No.	Price Each	
				1-9	10-99
● FLM-500	1/2	250	18M9074	6.66	5.83
● FLM001	1	250	18M9075	6.30	5.51
● FLM002	2	250	18M9076	5.76	5.04
FLM02.5	2 $\frac{1}{2}$	250	81F2128	5.72	5.01
● FLM 3	3	250	02B7000	6.01	5.26
● FLM03.2	3 $\frac{1}{10}$	250	81F2129	6.14	5.38
● FLM004	4	250	81F2130	6.01	5.26
● FLM005	5	250	81F2131	5.76	5.04
● FLM6.25	6 $\frac{1}{4}$	250	18M9083	6.14	5.38
● FLM008	8	250	81F2133	6.01	5.26
● FLM010	10	250	18M9077	5.76	5.04
● FLM012	12	250	18M9078	6.49	5.68
● FLM015	15	250	18M9079	5.76	5.04
● FLM020	20	250	94F1984	6.01	5.26
● FLM025	25	250	18M9081	6.82	5.97
● FLM030	30	250	18M9082	6.01	5.26

(9184)

FNQ SERIES TIME-DELAY
1 $\frac{3}{32}$ x 1 $\frac{1}{2}$ " FUSES

FNQ series time-delay fuses for motor control transformers and other circuits with inrush currents. Rated 500V. Interrupting rating: 10,000AIC. * denotes UL listed only.



Mfg. Part No.	Current Rating (A)	Stock No.	Price Each		
			1-9	10-24	25-49
FNQ-1/4	1/4	27F2454	20.05	19.07	17.52
FNQ-1/2	1/2	27F2455	18.61	17.70	16.26
FNQ-1	1	27F2456	14.40	13.70	12.59
● FNQ-1-6/10	1 $\frac{6}{10}$	27F2457	18.54	17.64	16.20
FNQ-2	2	27F2458	17.63	16.78	15.41
● FNQ-2-1/2	2 $\frac{1}{2}$	29M9939	18.54	17.64	16.20
FNQ-3	3	96F6104	17.68	16.82	15.45
● FNQ-3-2/10	3 $\frac{2}{10}$	27F2460	18.54	17.64	16.20

➤ CONTINUED ➤

FNQ SERIES TIME-DELAY 1 $\frac{3}{32}$ x 1 $\frac{1}{2}$ " FUSES (CONT.)

Mfg. Part No.	Current Rating (A)	Stock No.	Price Each		
			1-9	10-24	25-49
FNQ-3-1/2	3 $\frac{1}{2}$	94F2206	19.97	19.00	17.45
● FNQ-4	4	29M9943	17.68	16.82	15.45
● FNQ-5	5	30M2600	17.68	16.82	15.45
● FNQ-6	6	29M9944	17.68	16.82	15.45
● FNQ-7	7	29M9945	18.54	17.64	16.20
● FNQ-8	8	29M9946	17.68	16.82	15.45
● FNQ-10	10	29M9936	17.68	16.82	15.45
● FNQ-12	12	27F2466	17.68	16.82	15.45
FNQ-15	15	27F2467	17.68	16.82	15.45
● FNQ-20*	20	94F2204	17.68	16.82	15.45
● FNQ-25*	25	29M9940	17.68	16.82	15.45
● FNQ-30*	30	29M9942	17.68	16.82	15.45

(2350)

FLQ SERIES
SLO-BLO® FUSES

Time-delay 1 $\frac{3}{32}$ x 1 $\frac{1}{2}$ " fuses offer supplemental protection for small motors, control transformers, solenoids, circuits with high inrush currents. Interrupting rating: 10,000A. UL listed, CSA certified 500V ratings permit use on 480V circuits.



Mfg. Part No.	Current Rating (A)	Voltage Rating (V)	Stock No.	Price Each	
				1-99	100+
FLQ-250	1/4	500	81F2156	13.84	12.98
● FLQ001	1	500	18M9085	13.73	12.87
● FLQ002	2	500	81F2160	13.73	12.87
● FLQ02.5	2 $\frac{1}{2}$	500	81F2161	12.82	12.02
● FLQ3	3	500	98F080	13.73	12.87
● FLQ03.2	3 $\frac{2}{10}$	500	81F2162	12.82	12.02
● FLQ-4	4	500	81F2163	13.73	12.87
● FLQ-5	5	500	81F2164	13.73	12.87
● FLQ-6-1/4	6 $\frac{1}{4}$	500	81F2165	17.68	16.58
● FLQ008	8	500	81F2166	13.73	12.87
● FLQ010	10	500	81F2167	13.73	12.87
● FLQ012	12	500	81F2168	13.73	12.87
● FLQ015	15	500	81F2169	13.73	12.87
● FLQ025	25	500	95F833	13.73	12.87
● FLQ030	30	500	70B8394	13.73	12.87

(9182)

FNA SERIES TIME-DELAY
PIN INDICATING FUSES

FNA series time-delay 1 $\frac{3}{32}$ x 1 $\frac{1}{2}$ " pin indicating fuses for use in electronic circuits with high inrush currents. Silver-plated indicating pin for positive signal activation. Mount in mfg. part no. HPF-C panel-mount holder; order separately below. Ratings available up to 30A; go online or call. UL listed, CSA certified.



250V FUSE

Mfg. Part No.	Current Rating (A)	Stock No.	Price Each		
			1-9	10-49	50-99
FNA-1/2	1/2	28F332	10.26	9.81	9.26

125V FUSES					
FNA-1	1	28F335	11.67	11.16	10.53
FNA-1 6/10	1 $\frac{6}{10}$	28F339	10.87	10.39	9.81
FNA-2	2	28F341	13.14	12.57	11.86
FNA-3	3	28F345	13.28	12.69	11.98
FNA-4 1/2	4 $\frac{1}{2}$	28F349	16.81	16.08	15.17
FNA-5	5	28F350	13.14	12.57	11.86
FNA-6	6	96F6107	12.57	12.02	11.34
FNA-10	10	28F356	13.14	12.57	11.86

HPF-C PANEL MOUNT FUSE HOLDER

HPF-C	...	28F028	11.12	10.63	10.04
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(2347)

ELECTRICAL POWER FUSES

LPJ SERIES CLASS J 600
VOLT DUAL ELEMENT
TIME DELAY FUSES

- Dual element with minimum 10 second delay at 500% overload
- Protects against motor burnout from overload
- Faster response than mechanical overcurrent protective devices
- Lower watts loss reduces power consumption
- Space saving package for equipment down sizing

LPJ series is rated at 600VAC (or less), and from 1 to 600 A. Termination: Ferrule or Solder Lug. Use Class J fuseblock; J600 series. UL listed, CSA certified, Class J.

DIMENSIONS

Amps	Fuse Size (in.)
1-30	2.25 x 0.81
35-60	2.38 x 1.06
70-100	4.63 x 1.13
110-200	5.75 x 1.63
225-400	7.126 x 1.625
450-600	8.0 x 2.6

1-60A (FERRULES)

Mfg. Part No.	Current Rating (A)	Stock No.	Price Each	
			1-9	10-24
LPJ-1SP	1	02B4563	21.33	20.14
LPJ-1-1/4SP	1.25	02B4560	15.55	14.68
LPJ-3SP	3	02B4584	21.33	20.14
LPJ-4SP	4	02B4590	19.43	18.35
LPJ-5SP	5	02B4596	21.23	20.05
LPJ-6SP	6	02B4599	19.10	18.04
LPJ-8SP	8	02B4604	19.43	18.35
LPJ-10SP	10	02B4564	21.18	20.00
LPJ-12SP	12	02B4567	18.89	17.84
LPJ-15SP	15	02B4569	21.33	20.14
LPJ-17-1/2SP	17.5	02B4571	19.43	18.35
LPJ-25SP	25	02B4580	21.33	20.14
LPJ-35SP	35	02B4587	36.40	34.37
LPJ-40SP	40	02B4591	36.40	34.37
LPJ-45SP	45	02B4593	36.40	34.37
LPJ-60SP	60	02B4600	36.40	34.37

70-600A (SOLDER LUGS)

LPJ-70SP	70	02B4603	65.34	61.71
LPJ-80SP	80	02B4605	65.34	61.71
LPJ-90SP	90	02B4607	78.73	74.36
LPJ-100SP	100	02B4565	75.09	70.91
LPJ-110SP	110	02B4566	124.37	117.46
LPJ-150SP	150	02B4570	150.25	141.90
LPJ-175SP	175	02B4572	156.15	147.47
LPJ-200SP	200	02B4578	150.25	141.90
LPJ-300SP	300	02B4586	301.52	284.77
LPJ-400SP	400	02B4592	301.52	284.77
LPJ-600SP	600	02B4601	461.26	435.64

(80035)

NLN SERIES CLASS K5 FUSES



For general-purpose feeder and branch circuits. Interrupting rating: 50,000A. Order CH250 series fuse blocks separately; go online or call. UL listed Class K5, CSA certified.



Mfg. Part No.	Current Rating (A)	Voltage Rating (V)	Size	Stock No.	Price Each			
					1-9	10-49	50-99	100-249
NLN003	3	250	5/16 x 2"	81F2213	2.84	2.68	2.57	2.36
NLN006	6	250	5/16 x 2"	81F2214	2.82	2.66	2.55	2.34
NLN010	10	250	5/16 x 2"	81F2215	2.86	2.70	2.58	2.38
NLN015	15	250	5/16 x 2"	81F2216	2.47	2.33	2.23	2.05
NLN020	20	250	5/16 x 2"	81F2217	2.47	2.33	2.23	2.05
NLN025	25	250	5/16 x 2"	81F2218	2.47	2.33	2.23	2.05
NLN030	30	250	5/16 x 2"	81F2219	2.47	2.33	2.23	2.05
NLN050	50	250	13/16 x 3"	81F2223	4.26	4.02	3.85	3.53
NLN060	60	250	13/16 x 3"	81F2224	4.17	3.94	3.77	3.46

(9183)

LPS-RK SERIES TIME
DELAY FUSES

- Dual element with minimum 10 second delay at 500% overload
- High inrush current motor protection
- Protects against single phase motor damage
- Lower watts loss reduces power consumption



LPS-RK series is rated at 600VAC (or less), and from 1 to 600 A. Termination: Ferrule or Solder Lug.

1-60A (FERRULES)

Mfg. Part No.	Current Rating (A)	Stock No.	Price Each	
			1-9	10-24
LPS-RK-15SP	15	02B4677	22.63	21.18
LPS-RK-30SP	30	02B4695	19.90	18.63
LPS-RK-35SP	35	02B4697	34.20	32.02
LPS-RK-60SP	60	02B4713	44.68	41.82

70-600A (KNIFE BLADE)

LPS-RK-150SP	150	02B4678	184.60	172.79
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(80052)

T SERIES TIME DELAY FUSES

- Protects critical motor circuits or motors that cycle on/off frequently
- Industrial/commercial grade product with dual element construction
- Threads into fuse receptacles
- Spring loaded design for superior overload protection



T series is rated at 125VAC (or less), and from 1 to 30A. Edison Base, plug fuse, heavy duty.

Mfg. Part No.	Current Rating (A)	Stock No.	Price Each	
			1-9	10-24
T-1	1	02B5586	8.50	8.28
T-2	2	02B5595	9.76	9.51
T-3	3	02B5599	9.26	9.02
T-10	10	94F2427	7.73	7.53
T-15	15	30F165	3.38	3.29

(80053)

CUBEFuse™ AND
FUSEHOLDERS

- Provides TYPE 2 "No Damage" Protection for IEC Motors
- Low "Let-Through" Currents Under Fault Conditions
- 30A and 60A Fuseholders Can Be Ganged Together
- 30A Fuses Plug Into 60A Holder Without a Reducer
- Voltage Rating: 600VAC; 300VDC



The world's first finger-safe industrial fuse system provides true dual-element fuse construction with minimum 10-sec. time-delay @ 500% of rating. Time delay allows for back-up protection against motor burnout from overload or single phasing if other overload devices fail.

CUBEFuse™ FUSES

Mfg. Part No.	Current Rating (A)	Stock No.	Price Each	
			1-9	10-49
● TCF6	6	30M2624	28.23	27.56
● TCF10	10	28C2923	28.23	27.56
● TCF15	15	28C2924	28.23	27.56
● TCF20	20	28C2925	28.23	27.56
● TCF25	25	28C2926	24.57	23.99
● TCF30	30	23C6710	28.23	27.56
● TCF40	40	23C6713	38.76	37.84
● TCF45	45	28C2928	44.76	43.69
● TCF50	50	28C2929	44.76	43.69
● TCF60	60	30M2625	44.76	43.69

CUBEFuse™ SINGLE-POLE FUSEHOLDERS

Mfg. Part No.	Current Rating (A)	Wire Range (AWG)	Dual Wire	Stock No.	Price Each	
					1-9	10-49
● TCFH30	30	14-8	14	19C9284	9.14	8.92
● TCFH60	60	14-4	10	23C6708	9.43	9.21

(68049)

CIRCUIT PROTECTION

● Indicates RoHS Compliant

ELECTRICAL POWER FUSES

FNQ-R SERIES CLASS CC TIME-DELAY $1\frac{1}{2}$ " X $1\frac{1}{2}$ " REJECTION FUSES

FNQ-R series time-delay fuses with built-in rejection feature for control transformers and motor branch circuits. Designed to UL 508 and NEC 430-72 standards. Interrupting rating: 200,000AIC. Rated 600V. Ratings available from $\frac{1}{4}$ -30A.



Mfg. Part No.	Current Rating (A)	Stock No.	Price Each		
			1-49	50-99	100+
● FNQ-R-1/4	$\frac{1}{4}$	29M9921	20.36	17.13	15.66
● FNQ-R-4/10	$\frac{4}{10}$	29M9929	22.53	18.95	17.33
● FNQ-R-1/2	$\frac{1}{2}$	29M9920	16.15	13.58	12.42
● FNQ-R-6/10	$\frac{6}{10}$	29M9932	22.53	18.95	17.33
● FNQ-R-1	1	29M9918	18.20	15.31	14.00
● FNQ-R-1-1/2	$1\frac{1}{2}$	29M9919	18.59	15.63	14.30
FNQ-R-2	2	87F2364	18.59	15.63	14.30
● FNQ-R-2-1/2	$2\frac{1}{2}$	29M9924	20.36	17.13	15.66
● FNQ-R-3	3	29M9926	18.37	15.45	14.13
● FNQ-R-4	4	29M9928	19.58	16.47	15.06
● FNQ-R-5	5	29M9930	18.59	15.63	14.30
FNQ-R-6	6	95F3877	20.36	17.13	15.66
● FNQ-R-7-1/2	$7\frac{1}{2}$	29M9933	21.51	18.09	16.55
FNQ-R-8	8	95F3876	20.36	17.13	15.66
● FNQ-R-10	10	95F3878	19.58	16.47	15.06
● FNQ-R-12	12	29M9922	18.47	15.53	14.21
● FNQ-R-15	15	91F6000	18.47	15.53	14.21
● FNQ-R-20	20	29M9925	19.11	16.08	14.70
● FNQ-R-25	25	91F6002	19.11	16.08	14.70
● FNQ-R-30	30	29M9927	19.11	16.08	14.70

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KTK-R SERIES FAST-ACTING $1\frac{1}{2}$ " X $1\frac{1}{2}$ " MIDGET FUSES

KTK-R series melamine, Limitron® 600V midget fuses with 200,000AIC rejection. Class CC. UL listed for branch circuit protection. CSA certified.



Mfg. Part No.	Current Rating (A)	Stock No.	Price Each		
			1-9	10-99	100-249
KTK-R-1/2	$\frac{1}{2}$	87F1609	16.98	16.15	15.33
KTK-R-1	1	87F1610	16.03	15.25	14.47
KTK-R-1-1/2	$1\frac{1}{2}$	87F1611	16.03	15.25	14.47
KTK-R-2	2	87F1612	16.03	15.25	14.47
KTK-R-3	3	87F1613	16.03	15.25	14.47
KTK-R-5	5	87F1615	16.03	15.25	14.47
KTK-R-6	6	87F1522	16.83	16.02	15.20
KTK-R-8	8	87F1524	17.06	16.23	15.40
KTK-R-10	10	87F1526	16.03	15.25	14.47
KTK-R-15	15	87F1528	16.03	15.25	14.47
KTK-R-20	20	94F2243	16.03	15.25	14.47
KTK-R25	25	95F3862	17.06	16.23	15.40
KTK-R30	30	95F3863	16.03	15.25	14.47

(2330)

KLDR SERIES CLASS CC FUSES



Class CC time-delay $1\frac{1}{2}$ " x $1\frac{1}{2}$ " fuses protect control transformers and other components with high magnetizing currents during first half-cycle. Interrupting rating: 200,000A. Rejection feature added to one fuse cap. UL listed, CSA certified. Go online or call for more details on the complete line of KLDR series SLO-BLO® fuses.



Mfg. Part No.	Current Rating (A)	Voltage Rating (V)	Stock No.	Price Each		
				1-9	10-99	100+
● KLDR.500	$\frac{1}{2}$	600	87F5378	17.23	15.25	13.91
● KLDR.600	$\frac{6}{10}$	600	87F5379	22.18	19.64	17.91
● KLDR.750	$\frac{3}{4}$	600	87F5380	22.18	19.64	17.91
● KLDR001	1	600	87F5382	17.92	15.87	14.47
● KLDR01.5	$1\frac{1}{2}$	600	18M9122	17.23	15.25	13.91
● KLDR002	2	600	87F5388	17.23	15.25	13.91
● KLDR03.5	$3\frac{1}{2}$	600	18M9123	22.18	19.64	17.91
● KLDR005	5	600	95F2054	17.23	15.25	13.91

➤ CONTINUED ➤

KLDR SERIES CLASS CC FUSES (CONT.)

Mfg. Part No.	Current Rating (A)	Voltage Rating (V)	Stock No.	Price Each		
				1-9	10-99	100+
KLDR010	10	600	95F2062	19.28	17.07	15.57
● KLKR 20	20	600	02B8085	14.94	13.23	12.06

(9230)

FRN/FRS SERIES FUSETRON® TIME-DELAY DUAL-ELEMENT FUSES



FRN/FRS series fuses for rejection or ordinary fuse clips. Fit existing fused equipment. FuseTron® fuse link element handles heavy overloads, short circuits and has a thermal cutout element for light overloads. Interrupt rating: 200,000A RMS symmetrical.



0-60A FUSE DIMENSIONS

Series	Amp Rating	A	B	C	D
FRN-R	0-30	2"	$\frac{5}{32}$ "	$\frac{3}{16}$ "	$\frac{5}{64}$ "
	35-60	3"	$\frac{3}{16}$ "	$\frac{5}{16}$ "	$\frac{3}{32}$ "
FRS-R	0-30	5"	$\frac{3}{16}$ "	$\frac{5}{16}$ "	$\frac{3}{32}$ "
	35-60	$5\frac{1}{2}$ "	$\frac{1}{4}$ "	$\frac{7}{8}$ "	$\frac{3}{32}$ "

70-600A FUSE DIMENSIONS

FRN-R	70-100	$5\frac{1}{8}$ "	$\frac{1}{2}$ "	$2\frac{3}{64}$ "	$\frac{9}{32}$ "
FRS-R	70-100	$7\frac{1}{8}$ "	$\frac{1}{2}$ "	$2\frac{3}{64}$ "	$\frac{9}{32}$ "

FRN-R SERIES 250V FUSES

Available from 1/10A to 600A; go online or call.

Mfg. Part No.	Current Rating (A)	Stock No.	Price Each	
			1-9	10-99
FRN-R1	1	28F250	9.51	9.10
FRN-R2	2	28F253	9.16	8.76
FRNR-3	3	94F2210	8.72	8.34
FRN-R4	4	28F256	8.72	8.34
FRN-R5	5	28F257	8.37	8.00
FRN-R6-1/4	$\frac{6}{4}$	28F258	9.25	8.85
FRNR-7	7	94F2213	8.12	7.77
FRN-R8	8	28F259	8.72	8.34
FRN-R10	10	28F260	8.37	8.00
FRNR-12	12	94F2209	8.71	8.33
FRN-R15	15	28F262	6.72	6.43
FRN-R20	20	28F264	6.72	6.43
FRN-R25	25	28F265	6.72	6.43
FRN-R30	30	28F266	6.72	6.43
FRN-R35	35	28F267	12.26	11.73
FRN-R40	40	28F268	12.26	11.73
FRN-R50	50	28F270	12.26	11.73
FRN-R60	60	28F271	12.26	11.73
FRN-R-70	70	94F2527	27.56	26.37
FRN-R-80	80	94F2528	21.95	21.00
FRN-R100	100	28F275	27.56	26.37
FRN-R-200	200	94F6738	60.62	57.99

FRS-R SERIES FUSETRON® 600V FUSES

Available from 1A to 600A; go online or call.

FRS-R-1/10	$\frac{1}{10}$	02B2942	19.37	18.53
FRS-R-1	1	27F2400	19.08	18.25
FRS-R-2	2	27F2403	18.14	17.36
FRS-R-3	3	90F6102	16.85	16.12
FRS-R-4	4	27F2406	16.85	16.12
FRS-R-5	5	27F2407	13.42	12.84
FRSR-6	6	94F2447	16.85	16.12
FRS-R6-1/4	$\frac{6}{4}$	27F2408	14.13	13.52
FRSR-7	7	94F2448	17.75	16.98
FRS-R8	8	27F2409	16.85	16.12
FRS-R-9	9	27F2410	17.75	16.98
FRS-R10	10	27F2411	16.85	16.12
FRSR-12	12	94F2529	16.85	16.12
FRS-R15	15	27F2412	14.88	14.23
FRS-R-17-1/2	$17\frac{1}{2}$	90F6098	11.28	10.79
FRS-R20	20	27F2413	14.88	14.23
FRS-R25	25	27F2414	14.88	14.23
FRS-R30	30	27F2415	14.88	14.23
FRS-R35	35	27F2416	25.53	24.42
FRS-R40	40	27F2417	25.53	24.42
FRSR-45	45	94F2446	25.53	24.42
FRS-R50	50	27F2418	25.53	24.42
FRS-R60	60	27F2419	25.53	24.42
FRSR-70	70	94F2216	52.73	50.45
FRS-R-80	80	90F6101	52.73	50.45

➤ CONTINUED ➤

ELECTRICAL POWER & THERMAL FUSES • THERMAL CUT-OFFS • FUSE BLOCKS, HOLDERS & CLIPS

FRN/FRS SERIES FUSETRON® TIME-DELAY DUAL-ELEMENT FUSES (CONT.)

FRS-R SERIES FUSETRON® 600V FUSES

Mfg. Part No.	Current Rating (A)	Stock No.	Price Each	
			1-9	10-99
FRS-R-90	90	90F6099	52.73	50.45
FRS-R100	100	27F2420	43.80	41.90
FRS-R-125	125	94F6750	105.50	100.94
FRS-R-150	150	94F6404	105.50	100.94
FRS-R-175	175	02B2946	105.50	100.94
FRSR-200	200	94F2215	105.50	100.94
FRS-R-225	225	02B2948	152.38	145.79
FRS-R-250	250	94F6405	152.38	145.79
FRS-R-300	300	94F6751	210.94	201.81
FRS-R-400	400	94F2531	210.94	201.81
FRS-R-600	600	98F3079	306.14	292.89

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FLNR-ID AND FLNR-ID SERIES TIME-DELAY DUAL-ELEMENT INDICATOR FUSES



- Service Entrance Switches
- Switchboard Main and Feeder Switches
- Motor Control Center Mains and Motor Branch Circuits
- Individual Fused Combination Motor Controllers
- Distribution Panel Boards

- Industrial Control Panels
- Protection of Fully-Rated Panel Boards and Load Centers
- All General-Purpose Circuits

FLNR-ID and FLNR-ID series time-delay indicator fuses provide visual blown fuse indication at a glance. Solid-state construction provides maximum reliability and superior performance characteristics in a true dual-element design. Helps reduce down-time and nuisance fuse opening, increases safety, and can save production time.

FLNR-ID SERIES -- 250VAC, 125VDC

Mfg. Part No.	Current Rating (A)	Stock No.	Price Each			
			1-9	10-49	50-249	250+
FLNR35ID	35	52F9151	10.51	10.20	9.90	9.59
FLNR50ID	50	52F9152	10.51	10.20	9.90	9.59
FLNR70ID	70	52F9153	23.62	22.94	22.25	21.57
FLNR100ID	100	52F9154	23.62	22.94	22.25	21.57
FLNR150ID	150	52F9155	51.92	50.42	48.92	47.42
FLNR400ID	400	52F9163	93.63	90.93	88.22	85.51
FLNR225ID	225	52F9172	98.22	95.38	92.54	89.70

FLNR-ID SERIES -- 600VAC, 300VDC

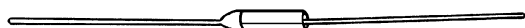
FLSR35ID	35	52F9156	21.87	21.24	20.61	19.98
FLSR50ID	50	52F9157	21.87	21.24	20.61	19.98
FLSR75ID	75	52F9158	50.88	49.41	47.94	46.47
FLSR100ID	100	52F9159	45.17	43.87	42.56	41.26
FLSR150ID	150	52F9160	90.38	87.77	85.16	82.54
FLSR225ID	225	52F9161	180.70	175.48	170.26	165.04
FLSR400ID	400	52F9162	180.70	175.48	170.26	165.04

(9407)

MICROTEMP® THERMAL FUSES



THERMODISC



Nonresettable axial fuses are designed to provide upper-limit temperature protection on all industrial appliances. Microtemp® thermal cut-off opens immediately when the internal temperature reaches the maximum rated temperature. Fuse is not resettable and should be replaced after opening. Rating: 10A @ 250VAC. Breakdown voltage when open: 1200VAC. Body length: 0.58" (14.7). Body diameter: 0.16" (4.0). Lead diameter: 0.04" (1.0).

Mfg. Part No.	Opening Temperature	Stock No.	Price Each		
			1-249	250-499	500-999
● G4A01072C	72°C	09WX6679	0.87	0.66	0.58
● G4A01084C	84°C	09WX6680	0.87	0.66	0.58
● G4A01098C	98°C	09WX6681	0.87	0.66	0.58
● G4A01121C	121°C	09WX6682	0.87	0.66	0.58
● G4A01167C	167°C	09WX6683	0.87	0.66	0.58
● G4A01184C	184°C	09WX6684	0.87	0.66	0.58
● G4A01229C	229°C	46WX2026	0.87	0.66	0.58

(40873)

THERMAL CUT-OFFS

- Maximum Current Rating: 15A
- Typical Opening Temperature Tolerance: +0°C, -4°C
- 18-Gauge Solid Copper Wire
- Full 1½" Leads to Fit All Replacement Configurations



NOTE: Tin plated lead

NOTE: Silver plated lead

Each device comes packaged with 2 crimp splices for solderless connection (poly-bag or carton pack orders only). Mfg. part no. NTE8182 is UL listed file no. E117626; all other part nos. UL listed file no. E49429 and CSA certified file no. LR43279.

Mfg. Part No.	Max. Temp. for Opening		Stock No.	Price Each		
	°C	°F		1-24	25-49	50-99
● NTE8070	72	162	06M7498	1.55	1.42	1.24
NTE8076	77	171	29C4795	1.55	1.42	1.24
● NTE8081	84	184	06M7499	1.55	1.42	1.24
NTE8085	87	189	30C5661	1.55	1.42	1.24
NTE8090	93	200	31C5992	1.55	1.42	1.24
NTE8096	98	209	31C5993	1.55	1.42	1.24
NTE8098	100	212	31C5994	1.55	1.42	1.24
NTE8103	104	220	29C4797	1.55	1.42	1.24
NTE8108	109	229	29C4798	1.55	1.42	1.24
NTE8115	117	243	29C4799	1.55	1.42	1.24
● NTE8118	121	250	06M7501	1.55	1.42	1.24
NTE8125	128	263	31C5998	1.55	1.42	1.24
● NTE8139	141	286	06M7503	1.55	1.42	1.24
● NTE8149	152	306	06M7504	1.55	1.42	1.24
● NTE8167	169	336	06M7505	1.55	1.42	1.24
● NTE8181	184	364	06M7506	1.55	1.42	1.24
● NTE8182	192	378	06M7507	3.00	2.76	2.40
NTE8213	216	421	29C4802	1.55	1.42	1.24
NTE8226	228	443	29C8978	1.55	1.42	1.24
● NTE8242	240	464	29C4804	1.55	1.42	1.24

(70314)

FUSE HOLDER, BLOCK, AND CLIP SELECTION CHART



Fuse Series	Size	Panel Mount Holder	PC Board Fuse Clip (Set of 2)	In-Line Fuse Holder	Fuseblock
ABC	¼ x 1¼"	HTB-261	1A1907-03	HRK*	S-8201-1
AGA	¼ x ¾"	...	1A1907-03	...	...
AGC	¼ x 1¼"	HTB-261	1A1907-03	HRK*	S-8201-1
AGU	½ x 1½"	HPG	1A3400-09	HEB†	BM6031PQ
AGW	¼ x ¾"	...	1A1907-03	HRK	...
AGX	¼ x 1"	HJL	1A1907-03	HRK	3828-1
ATC	...	...	1A5600	HHD	...
ATM	...	...	1A5778	HHM	...
BAF	½ x 1½"	HPG	1A3400-09	HEB†	BM6031PQ
BAN	½ x 1½"	HPG	1A3400-09	HEB†	BM6031PQ
BBS	½ x 1½"	HPS-L	1A3400-09	HEH	BM6031PQ
C519	5 x 15mm	...	1A3399-04	HHT	...
C520	5 x 15mm	...	1A3399-04	HHT	...
FNA	½ x 1½"	HPG	1A3400-09	HEB†	BM6031PQ
FNM	½ x 1½"	HPG	1A3400-09	HEB†	BM6031PQ
FNQ	½ x 1½"	HPG	1A3400-09	HEB†	BM6031PQ
FNQ-R	½ x 1½"	HPG	1A3400-09	HEB†	BM6031PQ
FWH	¼ x 1¼"	...	1A1907-06	...	...
GBA	¼ x 1¼"	HLD	1A1907-06	HRK	S-8201-1
GBB	¼ x 1¼"	HTB-261	1A1907-06	HRK	S-8201-1
GDA	5 x 20mm	HTB-26M	1A3399-04	HHT	HTC-10M
GDB	5 x 20mm	HTB-26M	1A3399-04	HHT	HTC-10M
GDC	5 x 20mm	HTB-26M	1A3399-04	HHT	HTC-10M
GLD	¼ x 1¼"	HLD	1A1907-06	HRK	S-8201-1
GMA	50 x 20mm	HTB-26M	1A3399-04	HHT	HTC-10M
GMC	50 x 20mm	HTB-26M	1A3399-04	HHT	HTC-10M
GMD	50 x 20mm	HTB-26M	1A3399-04	HHT	HTC-10M
KLM	½ x 1½"	HPG	1A3400-09	HEB†	BM6031PQ
KTK	½ x 1½"	HPG	1A3400-09	HEB†	BM6031PQ
KTK-R	½ x 1½"	HPG	1A3400-09	HEB†	BM6031PQ
KTO	½ x 1½"	HPS-L	1A3400-09	HEH	BM6031PQ
LP-CC	½ x 1½"	HPG	1A3400-09	HEB†	BM6031PQ
MDA	¼ x 1¼"	HTB-261	1A1907-03	HRK*	S-8201-1
MDL	¼ x 1¼"	HTB-261	1A1907-03	HRK*	S-8201-1
MDQ	¼ x 1¼"	HTB-261	1A1907-03	HRK*	S-8201-1
MIC	¼ x 1¼"	HPG	1A3400-09	HEB†	BM6031PQ
MIN	¼ x 1¼"	HPG	1A3400-09	HEB†	BM6031PQ
PCB	...	...	PCS	...	...
PCD	...	...	PCS	...	...
S500	5 x 20mm	HTB-26M	1A3399-04	HHT	HTC-10M
S501	5 x 20mm	HTB-26M	1A3399-04	HHT	HTC-10M
S504	5 x 20mm	HTB-26M	1A3399-04	HHT	HTC-10M
S505	5 x 20mm	HTB-26M	1A3399-04	HHT	HTC-10M
S506	5 x 20mm	HTB-26M	1A3399-04	HHT	HTC-10M
SC-1 to 15	½ x 1.31"	HPS-EE	1A3400-09	HEG	BG3011PQ
SC-20	½ x 1.41"	HPS-JJ	1A3400-09	HEH	BG3021PQ
SC-25 to 30	½ x 1.63"	HPS-FF	1A3400-09	HEC	BG3031PQ
SC-35 to 60	½ x 2¼"	...	1A3400-09	HEJ	G30060-1CR
TDC10	¼ x 1¼"	HTB-261	1A1907-03	HRK*	S-8201-1

» CONTINUED »

CIRCUIT PROTECTION

● Indicates RoHS Compliant

FUSE BLOCKS, HOLDERS & CLIPS

FUSE HOLDER, BLOCK, AND CLIP SELECTION CHART (CONT.)

Fuse Series	Size	Panel Mount Holder	PC Board Fuse Clip (Set of 2)	In-Line Fuse Holder	Fuseblock
TDC11	1/4 x 1 1/4"	HTB-26I	1A1907-03	HRK*	S-8201-1
TDC180	1/4 x 1"	HJL	1A1907-03	HRK*	3828-1

*For applications above 32V refer to HFA series; †For complete part number order BIF #2127; go online or call (72222)

FUSEHOLDER SELECTION GUIDE



Fuse Style	Fuse Part Number Series	Panel Mount Series	Fuseblock Series	Fuseclip Series	Fuseblock PC Board Series	In-Line Fuseholder Series
2AG	225 229 288 290	3452 (ISS) 345 (SS) 24500 1/2 286377	254 (OB)	111501 111505 111506 ...	254101 254121	150274
3AG	312 313 314 326	3453 (SS) 345 (SS) 342 (Trad'l) 344 (Ind.) 342006 (WT) 340312/3 (ST) 342024 349 (MIL)	354 (OB) 350 357 356 359	102071 122083 122088 102079 102080 122090 100058 ...	345101	155100 U/A 150215 155000 U/A 150079
5 x 20	213 215 216 217 218 235 237 239 ...	3455 (SS) 345 (SS)	520003 520004 520005 520006 ...	111501 11505 111506 100054 100056 ...	345121 520101	150274
ATO	257	155320U 155300 155430U 155400	350417 350418	100057		FHAC001 FHAC002
MINI	297				153007 153008 153009 ...	FHM001 FHM002 153002 (EZ) 153003 (EZ)
MAXI	299	...	MAB001	-913-089	...	MAH001
MEGA	298	...	2981001	...	...	...
MIDI	498	...	498900	...	...	...

* (ISS) = International Shock Safe; (SS) = Shock Safe; (ST) = Shielded Watertight; (WT) = Watertight; (OB) = Omni-Block; (HT) = High Temperature; (EZ) = Easy Crimp (89314)

FUSE CLIPS (CONT.)

Mfg. Part No.	Fig.	Description	Stock No.	Price Each
● 5956-16	3	Rivet/Eyelet, 1/32", Spring Bronze, Bright Tin finish, 0.196" mt. hole dia.	90F6091	0.26 0.21
● 5956-16-R	3	Rivet/Eyelet, 1/32", Spring Bronze, Bright Tin finish, 0.196" mt. hole dia.	63K9418	0.24 0.20
● 5960-07	3	Rivet/Eyelet, 1/32", with End Stops, Beryllium Copper, Silver finish, 0.196" mt. hole dia.	02B6751	2.42 2.00
● 5960-09	3	Rivet/Eyelet, 1/32", with End Stops, Beryllium Copper, Silver finish, 0.172" mt. hole dia.	27F596	2.43 2.01
● 5960-61	3	Rivet/Eyelet, 1/32", with End Stops, Spring Bronze, Bright Tin finish, 0.196" mt. hole dia.	02B6752	0.86 0.71
● 5960-63	3	Rivet/Eyelet, 1/32", with End Stops, Spring Bronze, Bright Tin finish, 0.172" mt. hole dia.	27F597	1.19 0.99
● 5960-64	3	Rivet/Eyelet, 1/32", with End Stops, Spring Bronze, Bright Tin finish, 0.128" mt. hole dia.	02B6753	1.04 0.86

(2356)

PC FUSE CLIPS AND HOLDERS



FUSE CLIPS



Fig. 1



Fig. 2

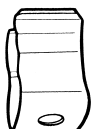


Fig. 3



Fig. 4



Fig. 5

Tin-plate, spring bronze except mfg. part no. 1A1907-06 which is silver-plate beryllium copper.

Mfg. Part No.	Fig.	Description	Stock No.	Price Each
● 1A1119-10-R	1	PCB, 3AG, 1/4", with End Stops and Angled-In Leads, Brass Cartridge	63K6814	0.20 0.17
● 1A1907-03-R	1	PCB, 3AG, 1/4", with End Stops and Straight Leads, Beryllium Copper	63K6817	0.35 0.29
● 1A1907-06-R	1	PCB, 3AG, 1/4", with End Stops and Straight Leads, Brass Cartridge	63K6818	0.12 0.10
● 1A4534-01-R	2	PCB, 3AG, Kicked Term., with End Stops and Angled-Out Leads, Beryllium Copper	63K6823	0.20 0.17
● 1A3399-04-R	4	PCB, 5x20mm, with Straight Leads, Beryllium Copper	63K6820	0.38 0.31
● 1A3399-10-R	4	PCB, 5 x 20 mm, with Straight Leads, Spring Bronze	63K6821	0.15 0.13
● 1A3400-09-R	5	PCB, 1/32", with End Stops and Straight Leads, Spring Bronze	63K6822	0.40 0.33
● 1A5018-10-R	4	PCB, 5 x 20 mm, with End Stops and Straight Leads, Spring Bronze	63K6824	0.15 0.13
● 5672-11	3	Rivet/Eyelet, 9/32", Spring Bronze, Bright Tin finish, 0.172" mt. hole dia.	94F2262	1.05 0.87
● 5674-01	3	Rivet/Eyelet, 9/32", with End Stops, Beryllium Copper, Silver finish, 0.172" mt. hole dia.	02B6742	1.41 1.17
● 5674-41	3	Rivet/Eyelet, 9/32", with End Stops, Spring Bronze, Bright Tin finish, 0.172" mt. hole dia.	04J9364	0.30 0.25
● 5681-15	3	Rivet/Eyelet, 1/4", Spring Bronze, Bright Tin finish, 0.132" mt. hole dia.	94F2444	0.16 0.13
● 5681-15-R	3	Rivet/Eyelet, 1/4", Spring Bronze, Bright Tin finish, 0.132" mt. hole dia.	63K7643	0.15 0.13

➤ CONTINUED ➤

HOLDERS — PACKAGES OF 100

4243

Mfg. Part No.	Description	Stock No.	Price per Pkg.
● 3560	Modular PC "Auto" Blade	83F8237	136.29
● 3522-2	PC "Auto" Blade, Vertical Fits 0.0205" x 0.025"	83F8247	61.40
● 3544-2	PC "Auto" Blade, Vertical Fits 0.110" x 0.032"	66F6702	64.41
● 4628	PC 5mm, Slimline	83F8243	39.26
● 4628C	PC 5mm, Slimline Cover	83F8244	17.20
● 4527	PC 5mm, Low-Profile	16F2083	43.17
● 4527C	PC 5mm, Low-Profile Cover	16F2084	18.91
● 3527	PC 5mm, Snap-In Cover	95F3325	102.10
● 3527C	PC 5mm, Vinyl Cover	83F8245	28.67
● 4243*	PC 5mm, Low-Profile	28H8539	1.92
● 4245C	3AG, Vinyl Cover	97H7571	35.92

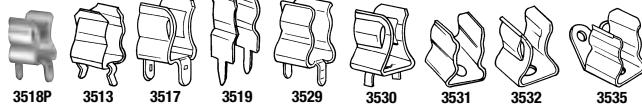
CLIPS — PACKAGES OF 100

● 3521	2AG/5mm, Thru-Hole	83F8246	13.35
● 3561	2AG/5mm, Surface Mount	83F8238	13.35
● 3562	5mm/3AG, PC Multi-Fuse	83F8239	19.96
● 3565	9/32 PC Fuse	83F8240	12.82
● 3566	13/32 PC Fuse	83F8241	35.75
● 3564	PC Mini "Auto"	83F8242	15.77
● 3522	PC "Auto", Vertical Fits 0.0205" x 0.025"	95F3326	15.77
● 3544	PC "Auto", Vertical Fits 0.110" x 0.032"	66F6705	15.77
● 3550	PC "Auto" Blade, Vertical Fits 0.0205" x 0.025"	66F6704	32.94
● 3549	PC Mini "Auto" Blade, Horizontal Fits 0.110" x 0.032"	66F6706	31.67
● 3563	PC Mini "Auto" Blade, Surface Mount Fits 0.110" x 0.032"	31C6566	15.77
● 3555	PC Maxi "Auto", Vertical Fits 0.312" x 0.032" Thru-Hole	31C6565	16.41

* Sold as each. (36072)

FUSE BLOCKS, HOLDERS & CLIPS

FUSE CLIPS

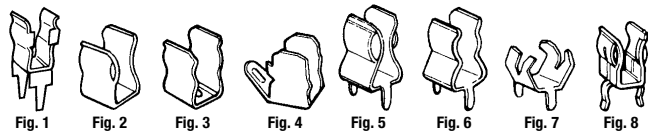


Printed circuit types are available in snap-fit and press-fit for wave soldering. Rated 15 amps. Available with orientation tabs and end stops. Constructed of tin-plated brass. **Mfg. part no. 3513** is snap-in clip style. **Mfg. part no. 3532** is same as **mfg. part no. 3531** without mounting ears. **Sold in packages of 100.**

Mfg. Part No.	Fits Fuse	Mtg. Hole Separation	Mtg. Hole Diameter	Stock No.	Price per Pkg.
					1-4
● 3513	3AG	0.300" (7.6)	0.067" (1.7)	95F3320	18.34
● 3517	5mm	0.270" (6.9)	...	95F3321	14.39
● 3518P	5mm	0.270" (6.9)	...	97H7570	14.44
● 3519	5mm	0.200" (5.1)	0.049" (1.2)	95F3324	10.89
● 3529	3AG	0.300" (7.6)	0.067" (1.7)	94F1480	17.97
● 3530	3AG	0.270" (6.9)	0.068" (1.7)	95F3319	11.42
● 3531	3AG	...	0.130" (3.3)	94F698	12.00
● 3532	3AG	...	0.136" (3.45)	95F3323	12.00
● 3535	3AG	...	0.135" (3.4)	94F4218	16.81

(9254)

100 SERIES PC BOARD AND RIVET/EYELET MOUNT FUSE CLIPS



Clips are tin-plated spring brass except (*) denotes silver-plated beryllium copper and (**) nickel-plated spring brass, (***) are phosphor bronze, tin-plated clips designed for automatic insertion are suitable for current levels up to 10 amperes. Use beryllium copper for currents greater than 15A.

Mfg. Part No.	Fig.	Description	Stock No.	Price Each			
				1-9	10-99	100-499	500-1999
● H100056	1	PC Board, 5mm Fuse	94F2128	0.20	0.16	0.14	0.13
● H101001**	2	Rivet/Eyelet, 3AG Fuse	27F772	0.14	0.12	0.10	0.09
● H101002**	3	Rivet/Eyelet, 3AG Fuse	27F773	0.17	0.14	0.12	0.11
● H101003	4	Rivet/Eyelet, 3AG Fuse	27F1084	0.20	0.16	0.14	0.13
● H102071	5	PC Board, 3AG Fuse	27F1085	0.14	0.12	0.10	0.09
● H102074	6	PC Board, 3AG Fuse	27F1086	0.20	0.16	0.14	0.13
● H102078	6	PC Board, Bowled Tab, 3AG	20F606	0.28	0.23	0.20	0.18
● H105002**	3	Rivet/Eyelet, 5AG & Midget	27F774	0.33	0.27	0.24	0.21
● 107002	3	PC Board, NEC 1-30A Fuses	13C3180	0.72	0.59	0.52	0.46
● H111501	8	PC Board, 2AG or 5mm Fuse	46F1532	0.20	0.16	0.14	0.13
● H111005***	...	PC Board, 5mm Fuse	97B4067	0.20	0.16	0.14	0.13
● H11506*	8	PC Board, 2AG or 5 x 20mm Fuses	12J4018	0.33	0.27	0.24	0.21
● H121001*	2	Rivet/Eyelet, 3AG Fuse	27F1087	1.24	1.02	0.90	0.79
● H121002*	3	Rivet/Eyelet, 3AG Fuse	27F1088	1.32	1.08	0.96	0.84
● 122088*	5	PC Board, 3AG or 3AB Fuses	12J4022	0.44	0.36	0.32	0.28
● H122087*	6	PC Board, 3AG Fuse	20F609	0.58	0.48	0.42	0.37
● 122090*	7	Low Profile PC Board, 3AG	78J2797	0.47	0.39	0.34	0.30

(9304)

AUTO FUSE HOLDER

In-line fuse holder for ATO® series blade-type auto fuses. Rated 30A. #12-gauge lead wire attached.



Mfg. Part No.	Stock No.	Price Each			
		1-49	50-99	100-249	250-499
● HHD	97F7607	3.08	2.55	2.43	2.33

(2375)

3M™ SCOTCHLOK™ SELF-STRIPPING IN-LINE BLADE TYPE FUSEHOLDER



- Wire range: 18-14 AWG
- Max. insulation diameter: 0.145 in.
- Voltage rating: 32V max.

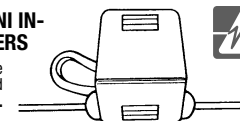
For use with ATO and ATO(257) series automotive blade-type fuses. Mates with male tab 0.205 x 0.025 in. (width x thickness). U-contact material: tin-plated over copper alloy, 0.3in. (0.8mm) thick. Insulator material: Polypropylene. Color: blue.

Mfg. Part No.	Sold Individually		Sold in Packages of 25	
	Stock No.	Price Each	Stock No.	Price per Pkg.
● 972X	82H1278	1.66	95C2869	41.36

(85722)

FHAC SERIES ATO® MINI IN-LINE AUTO FUSE HOLDERS

In-line fuse holders with protective cover. **Mfg. part no. FHAC001** rated thru 20A and **mfg. part no. FHAC002** rated thru 30A.



Mfg. Part No.	Wire	Stock No.	Price Each		
			1-9	10-99	100-249
● FHAC001	16-Gauge Black	95F855	2.36	2.06	1.87
● FHAC002	12-Gauge Orange	95F856	2.73	2.38	2.16

(9209)

DIN RAIL MOUNT FUSE HOLDER



5

- 10 x 38 dovetail design provides maximum flexibility in assembling multiple poles
- Touchsafe design - no exposed contacts
- DIN rail mount (35mm)
- Excellent for switchboard panel, control consoles, small motors, transformers, and similar applications
- Wire ready
- CE marking

Recommended Buss fuse types: Class CC fuses - LP-CC, FNQ-R, KTK-R, Midget fuses - FNQ, KTK, AGU, KLM, BAF, BAN, FNM, FWA, FWC, and FNQ. Voltage: UL/CSA-600V, IEC-690V. Amperage: UL/CSA-30A, IEC-32A.



FUSEHOLDERS

Mfg. Part No.	No. of Poles	Current Rating (A)	Voltage Rating (V)	For Fuse Type	Stock No.	Price Each
● CHCC2	2	30	600	Class CC	02B2479	46.29
● CHCC3	3	30	600	Class CC	02B2481	76.86
● CHM1	1	30	600	Midget	02B2483	20.31
● CHM2	2	30	600	Midget	02B2485	42.09
● CHM3	3	30	600	Midget	02B2487	63.84

ACCESSORY

Mfg. Part No.	Description	Stock No.	Price Each
			1-9
DRA-1	Fuseblock adapter	02B2597	2.28

(72265)

RAIL MOUNT FUSEHOLDERS

Ratings: 30A, 600V; UL/CSA. 1 pole. Fuse size: 1/2" x 1/2" (KTK-R, FNQ-R or LP-CC). AWG: #8-22 CU. Mounting options: 35mm DIN rail, C-Rail. Torque Rating: 18 in/lb. max. Operating temperature: 105°C.



Mfg. Part No.	Stock No.	Price Each
		1-9
● NDNF1-WH	69K7611	9.93

(72266)

CIRCUIT PROTECTION

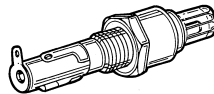
● Indicates RoHS Compliant

FUSE BLOCKS, HOLDERS & CLIPS

HK SERIES LAMP INDICATING 1/4 x 1/4" FUSE HOLDERS



Vibration-resistant holders fit panels to 3/16" (4.76) thick. All have bayonet knobs except **mfg. part nos. HKL-X** and **HKX** have flat-sided knobs. Incandescent lamp, except **mfg. part nos. HKL** and **HKL-X** are neon. Rated 20A, except **mfg. part nos. HKL** and **HKL-X** are 15A. **Mfg. part no. HKL** is UL recognized, CSA certified.



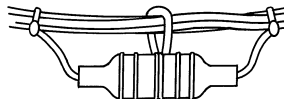
Mfg. Part No.	Volts	Lens Color	Stock No.	Price Each			
				1-49	50-99	100-249	250-499
HKL	90-250	Clear	27F813	9.00	8.47	7.88	7.30
HKL-X	90-250	Clear	27F814	9.25	8.70	8.10	7.49
HKR	22-30	Amber	96C9312	24.12	22.70	21.12	19.55
HKT	13-22	Amber	96C9313	12.00	11.29	10.51	9.73
HKX	22-33	Amber	96C9314	25.25	23.76	22.11	20.46

(2344)

HFB 1/4 x 1/4" WATERPROOF IN-LINE FUSE HOLDER



Withstands water, salt spray, ultraviolet light and ozone. Accepts #12 to #18 gauge wire. Yellow for high visibility. Rated 30A @ 32V.



Mfg. Part No.	Stock No.	Price Each			
		1-49	50-99	100-249	250-499
● HFB-R	63K9348	5.34	4.20	3.83	3.61

(2341)

HHB SERIES IN-LINE UNIVERSAL FUSE HOLDERS



Versatile nylon fuse holders for dry environments. Designed for 1/4" diameter x 1/2" to 1 1/4" fuses. Accept #12 to #18-gauge wire. Rated 30A @ 32V. **Mfg. part no. HHB** has in-line crimp terminal; **mfg. part no. HHB-R408** has red, 8" (203.20) #14 leads.



Mfg. Part No.	Stock No.	Price Each			
		1-49	50-99	100-249	250-499
● HHB-R	63K9349	1.17	0.98	0.93	0.90
● HHB-R408-R	65K4437	1.64	1.38	1.30	1.26

(2342)

HRK SERIES FUSE HOLDER



- For 1/4 x 1/8" to 1/4 x 1/4" Fuses
- #14 AWG Copper Wire Leads
- 8" (203) Leads
- Three Springs Furnished to Accept Different Fuse Lengths
- Wire Leads Are Staked and Soldered to the Contacts of the Fuse Holder



Mfg. Part No.	Voltage Rating	Current Rating	Stock No.	Price Each			
				1-49	50-99	100-499	500+
● HRK-R	32V	15A	63K9371	3.16	2.49	2.17	1.47

(2343)

HEB AND HFA WATERPROOF IN-LINE FUSE HOLDERS



For exposed locations. Copper crimp. Accept various wire sizes.

HEB 1/2 x 1 1/2" WATERPROOF FUSE HOLDERS

Mfg. Part No.	Wire Range	Rated	Stock No.	Price Each			
				1-49	50-99	100-249	250-499
HEB-AA	#12-8	30A @ 600V	95F800	18.24	16.54	14.76	13.32
HEB-BB	#10-4	30A @ 600V	95F1461	24.54	22.25	19.86	17.92

➔ CONTINUED ➔

HEB AND HFA WATERPROOF IN-LINE FUSE HOLDERS (CONT.)

HFA 1/4 x 1-1/4" WATERPROOF FUSE HOLDER

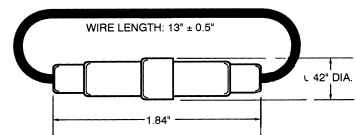
Mfg. Part No.	Wire Range	Rated	Stock No.	Price Each			
				1-49	50-99	100-249	250-499
● HFA-R	#16-12	20A @ 250V	65K4436	11.94	10.83	9.66	8.72

(2377)

HHT IN-LINE FUSE HOLDER FOR 5x15mm AND 5x20mm FUSES



Mfg. part no. HHT is a black 2-piece screw-together assembly in-line fuse holder. Supplied with 13" long red 16AWG wire. Electrical ratings: 5 x 15mm rated 5A at 32V; 5 x 20mm rated 10A at 32V.



Mfg. Part No.	Stock No.	Price Each			
		1-49	50-99	100-249	250-499
● HHT	91F4760	2.01	1.73	1.58	1.52

(13233)

155 SERIES BAYONET KNOB IN-LINE TYPE FUSE HOLDERS FOR 3AG AND SFE FUSES



Bayonet-knob holders for use at 32 volts or less with fuses rated up to 20A when proper spring installed. "A" suffix denotes 19" loop of red vinyl 14 AWG wire.



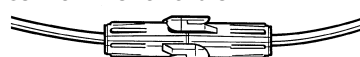
Mfg. Part No.	Fuse Installed	Stock No.	Price Each			
			1-99	100-499	500-999	1000+
● 155004U	---	12J4031	1.36	0.99	0.88	0.81
● 155006U	---	12J4032	1.36	0.99	0.88	0.81
● 155009U	---	67K1432	1.36	0.99	0.88	0.81
● 155014U	---	67K1433	1.36	0.99	0.88	0.81
● 155004A	SFE 4	03B760	2.98	2.18	1.92	1.77
● 155006A	SFE 6	03B761	2.98	2.18	1.92	1.77
● 155020A	SFE 20	67K1434	2.98	2.18	1.92	1.77

Includes 15" loop of 14 AWG wire and 3 springs for 3AG and SFE type fuses.

Mfg. Part No.	Stock No.	Price Each	
		1-99	
● 150145	27F1071	2.92	

(9204)

155 SERIES TWIST-LOCK IN-LINE TYPE FUSE HOLDERS FOR 3AG-SFE



155120A



For use at 32V or less with fuses rated to 20A. Black, UL94V2 thermoplastic housing. **Mfg. part no. 155120A** fuse holder includes SFE 20 fuse and 19"(482.60) loop of #14 AWG wire. **Mfg. part no. 155120U** 1/4 x 1/4" fuse holder comes unassembled; order 3AG fuse and #14 AWG wire separately.

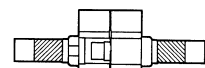
Mfg. Part No.	Stock No.	Price Each			
		1-9	10-99	100-249	250-499
● 155120A	67K1436	2.19	1.91	1.74	1.62
● 155120U	67K1437	0.50	0.44	0.40	0.37

(9227)

153 SERIES MINI® FUSE EASY-CRIMP IN-LINE FUSE HOLDERS



Compact in-line design for easy wire insertion. Use with Mini® fuse automotive fuses. -40° to +105°C range.

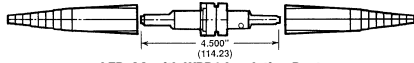


Mfg. Part No.	Amps	AWG	Stock No.	Price Each		
				1-4	5-9	10+
● 153002	20	#16-20	78J3500	81.80	73.62	65.44
153003.	30	#10-14	95F854	1.13	0.84	0.74

(9228)

FUSE BLOCKS, HOLDERS & CLIPS

LEB SERIES WATERPROOF IN-LINE FUSE HOLDER AND BOOT



LEB-AA with WPB1 Insulating Boot

- Ideal for Utility Pole Circuit Protection

LEB series rugged fuse holders are designed for outdoor use, including wet and corrosive conditions. Accept $\frac{1}{2}$ x $\frac{1}{2}$ " Midget fuses. Rating: 600 volts, 30A maximum. Mfg. part no. WPB1 insulating boots protect conductor terminals; order separately below. UL recognized, CSA certified

Mfg. Part No.	Conductors Per Terminal		Stock No.	Price Each
	Load Side	Line Side		
LEB-AA	1 #12-8, 2 #12	1 #12-8, 2 #12	95F2063	22.68

WPB1 INSULATING BOOT – 2 REQUIRED

Mfg. Part No.	Description	Stock No.	Price Each	
			1-9	
WPB1	Insulating Boot	95F2067	3.45	

(9232)

 $\frac{1}{4}$ " FUSE HOLDERS

Accept $\frac{1}{4}$ x $\frac{1}{4}$ " fuses with bayonet-type knobs in panels to 0.313" (7.95) thick. Rated 30A/250V, except (*) 15A/250V. UL recognized, CSA certified. **Sold individually.**

Mfg. Part No.	Description	Stock No.	Price Each	
			1-49	50-99
MCHKP-RH	Solder Terminal	17M6446	1.60	1.36
MCHKP-HH-RH*	$\frac{1}{4}$ " Q.C.	17M6445	1.98	1.68

Q.C. = Quick Connect
(16636)

FUSE HOLDERS

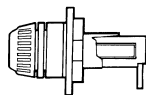


Fig. 1

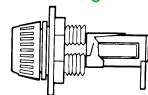


Fig. 2

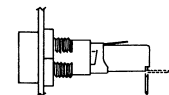


Fig. 3

Designed to international specifications per IEC 257 and accept $\frac{1}{4}$ x $\frac{1}{4}$ " fuses. All models are panel mountable. UL recognized, CSA certified, VDE and SEMKO approved. **Sold individually.**

Mfg. Part No.	Fig.	Description†	Stock No.	Price Each	
				1-49	50-99
MCHTB-22I-RH	1	L/P, S.C.	17M6448	1.81	1.54
MCHTB-28I-RH	1	L/P, Q.C.	17M6449	1.94	1.64
MCHTB-44I-RH	2	L/P, S.C.	17M6452	2.12	1.80
MCHTB-48I-RH	2	H/P, Q.C.	17M6453	2.52	2.14
MCHTB-34I-RH	3	L/P, S.C.	17M6450	1.81	1.54
MCHTB-36I-RH	3	L/P, Q.C.	17M6451	1.94	1.64

† L/P = Low-Profile; H/P = High-Profile; S.C. = Solder Connect; Q.C. = Quick Connect
(16638)

 $\frac{1}{32}$ " FUSE HOLDERS

For $\frac{1}{32}$ " diameter fuses in various lengths. 1-piece side terminal and threaded insert eliminates 2-piece solder fabrications. Combination $\frac{1}{4}$ " quick-connect/solder terminals. Bayonet knob. **Sold individually.**

Mfg. Part No.	Rating	Description	Stock No.	Price Each	
				1-49	50-99
MCHPS-RH	30A, 600V	$\frac{1}{32}$ x $\frac{1}{2}$ "	17M6447	3.71	3.15

(16640)

HKP SERIES $\frac{1}{4}$ " FUSE HOLDERS

Accept $\frac{1}{4}$ x $\frac{1}{4}$ " fuses with bayonet type knobs in panels to 0.313" (7.95) thick. Rated 30A/250V except (*) 15A/250V. UL recognized, CSA certified.



Mfg. Part No.	Description	Stock No.	Price Each			
			1-49	50-99	100-249	250-499
HKP-R	Solder Terminal	63K9357	2.98	2.41	2.19	1.91
HKP-HH-R*	$\frac{1}{4}$ " Q.C.	63K9356	3.69	2.99	2.72	2.37
HKP-CC-R	Short Behind Panel	63K9355	2.98	2.41	2.19	1.91
HJM	For $\frac{1}{4}$ x $\frac{1}{4}$ " fuse	27F819	2.94	2.38	2.17	1.89

(2354)

HTB SERIES FUSE HOLDERS

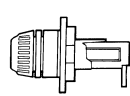


Fig. 2

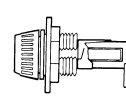


Fig. 1

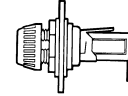


Fig. 3

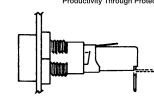


Fig. 4

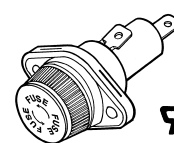
Designed to international specifications per IEC #257 and accept either 5 x 20mm (suffix M) or $\frac{1}{4}$ x $\frac{1}{4}$ " (suffix I) fuses. All models are panel-mountable. Rear panel mount version allows pre-wiring before insertion in panel. UL recognized, CSA certified, SEMKO approved, VDE approved. Additional models available; go online or call.

Mfg. Part No.	Fig.	Desc.‡	Stock No.	Price Each			
				1-24	25-49	50-99	100-249
HTB-22I-R	1	L/P, S/C	63K9372	2.70	2.37	2.05	1.85
HTB-22M-R	1	L/P, S/C	63K9373	2.89	2.53	2.20	1.98
HTB-24I-R	1	L/P, S/C	63K9374	2.70	2.37	2.05	1.85
HTB-24M-R	1	L/P, S/C	63K9375	2.89	2.53	2.20	1.98
HTB-26I-R	1	L/P, Q/C	63K9376	2.88	2.52	2.19	1.97
HTB-26M-R	1	L/P, Q/C	63K9377	3.25	2.85	2.47	2.22
HTB-28I-R	1	L/P, Q/C	63K9378	2.88	2.52	2.19	1.97
HTB-28M-R	1	L/P, Q/C	63K9379	2.87	2.52	2.19	1.96
HTB-82I-R	1	L/P, Q/C	63K9402	3.18	2.79	2.42	2.18
HTB-86I-R	1	L/P, Q/C	63K9403	3.45	3.02	2.63	2.36
HTB-42I-R	2	H/P, S/C	63K9387	3.00	2.63	2.28	2.05
HTB-44I-R	2	H/P, S/C	63K9388	3.16	2.77	2.40	2.16
HTB-44M-R	2	H/P, S/C	63K9389	3.18	2.79	2.42	2.18
HTB-46I-R	2	H/P, Q/C	63K9390	3.76	3.29	2.86	2.57
HTB-48I-R	2	H/P, Q/C	63K9392	3.76	3.29	2.86	2.57
HTB-62I-R	3	F/P, S/C	63K9397	2.38	2.09	1.81	1.63
HTB-64I-R	3	F/P, S/C	63K9398	2.88	2.52	2.19	1.97
HTB-64M-R	3	F/P, S/C	63K9399	3.18	2.79	2.42	2.18
HTB-66I-R	3	F/P, Q/C	63K9400	3.06	2.68	2.33	2.09
HTB-32I-R	4	L/P, Q/C	63K9380	2.23	1.96	1.70	1.53
HTB-32M-R	4	L/P, Q/C	63K9381	2.89	2.53	2.20	1.98
HTB-34I-R	4	L/P, S/C	63K9382	2.70	2.37	2.05	1.85
HTB-34M-R	4	L/P, S/C	63K9383	2.88	2.52	2.19	1.97
HTB-36I-R	4	L/P, Q/C	63K9384	2.88	2.52	2.19	1.97
HTB-36M-R	4	L/P, Q/C	63K9385	3.25	2.85	2.47	2.22
HTB-38I-R	4	L/P, Q/C	63K9386	2.88	2.52	2.19	1.97
HTB-92I-R	4	L/P, S/C	63K9404	2.64	2.31	2.01	1.80
HTB-92M-R	4	L/P, S/C	63K9405	3.30	2.89	2.51	2.25
HTB-96I-R	4	L/P, Q/C	63K9406	4.23	3.70	3.22	2.89
HTB-52I-R	...	H/P, S/C	63K9393	2.70	2.37	2.05	1.85
HTB-54I-R	...	H/P, S/C	63K9394	2.23	1.96	1.70	1.53
HTB-56I-R	...	H/P, Q/C	63K9395	2.88	2.52	2.19	1.97
HTB-56M-R	...	H/P, Q/C	63K9396	2.87	2.52	2.19	1.97

* Right angle rear terminal †L/P = Low-Profile; S/C = Solder Connect; Q/C = Quick Connect H/P = High-Profile; F/P = Front Panel; S = Solder.
(2357)

HP SERIES $\frac{1}{32}$ " FUSE HOLDERS

For $\frac{1}{32}$ " diameter fuses in various lengths. 1-piece side terminal and threaded insert eliminates 2-piece solder fabrication. Combination $\frac{1}{4}$ " quick-connect/solder terminals. Mfg. part no. HPF have screw-type knob; mfg. part no. HPS have bayonet knob.



Mfg. Part No.	Rating	Fuse	Stock No.	Price Each			
				1-49	50-99	100-249	250-499
HPS	30A, 600V	$\frac{1}{32}$ ", 1 $\frac{1}{2}$ "	94F2236	6.10	5.79	5.28	4.93
HPS-L	5A, 600V	$\frac{1}{32}$ " x $\frac{1}{8}$ "	08J0158	14.03	13.33	12.15	11.33
HPS-F-EE*	15A, 600V	$\frac{1}{32}$ " x $\frac{1}{16}$ "	08J0157	22.25	21.14	19.28	17.97
HPM	30A, 600V	$\frac{1}{32}$ ", Flange	94F6452	22.52	21.39	19.50	18.18
HPM-D†	30A, 600V	$\frac{1}{32}$ ", Flange	08J0156	50.00	47.49	43.31	40.38
HPF	30A, 600V	1 $\frac{1}{2}$ " long	29M6909	6.10	5.79	5.28	4.93
HPF-EE	15A, 300V	SCO to 15	29M6910	6.70	6.36	5.80	5.41
HPG-EE	15A, 600V	SCO-15, $\frac{1}{32}$ " x $\frac{1}{16}$ "	08J0154	12.07	11.47	10.46	9.75

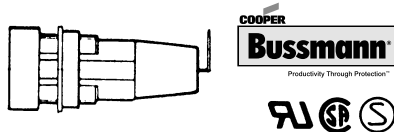
* Sleeve on body for leaded fuses; † With splash-resistant knob.
(2355)

CIRCUIT PROTECTION

FUSE BLOCKS, HOLDERS & CLIPS

HTC SERIES 5 x 20mm FUSE HOLDER

Panel mount fuse holder saves space. Mfg. part no. **HTC-35M** rated 6.3A, 250V. UL recognized, CSA certified, SEMKO approved. Meet IEC 257, PC2 standards.



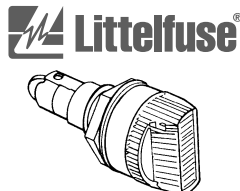
Mfg. Part No.	Description	Stock No.	Price Each			
			1-49	50-99	100-249	250-499
HTC-35M	Threaded Cap	93F5379	1.94	1.84	1.73	1.62

(2359)

344 SERIES BLOWN-FUSE LAMP BAR KNOB INDICATING PANEL MOUNT TYPE FUSE HOLDER FOR 3AG



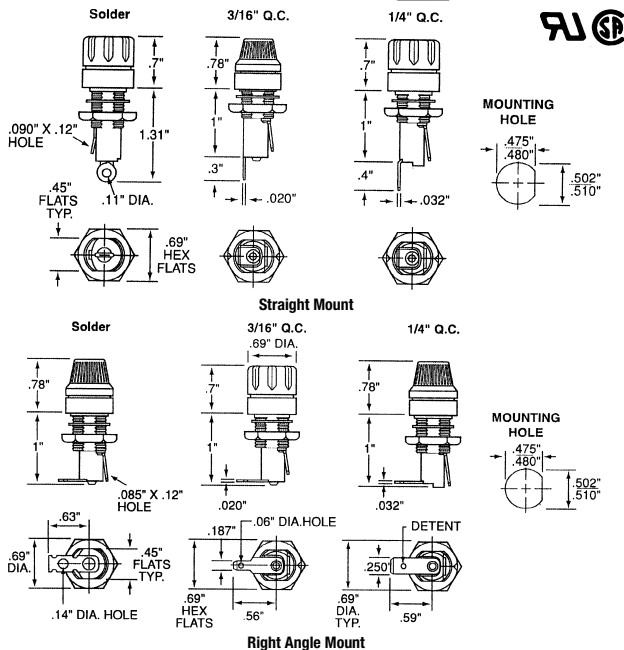
Panel mount fuse holders with blown-fuse indicator lamp. Rated 20A up to 250V. Panel thickness to 0.250" (6.35mm). Lamp color: * denotes incandescent lamp, amber lens, no resistor; † denotes neon lamp, clear lens, with resistor. Includes hardware. UL recognized, CSA certified.



Mfg. Part No.	Lamp		Stock No.	Price Each			
	Volts	Amps		1-24	25-49	50-99	100-249
H344012*	7-16	0.08	27F791	27.96	25.80	23.64	21.70
H344024*	16-32	0.04	27F783	22.53	20.79	19.05	17.49
H344125	100-125	0.002	27F784	15.87	14.65	13.42	12.32
H344250H†	200-250	0.002	27F785	15.87	14.65	13.42	12.32

(9207)

342 SERIES PANEL MOUNT 3AG FUSE HOLDERS



3AG fuse holders rated 20A up to 250V. Fluted or knurled knobs. Include neoprene washer and metal hex nut. Panel thickness to 0.250". UL recognized, CSA certified.

Mfg. Part No.	Mount Style	Terminals+	Stock No.	Price Each			
				1-9	10-99	100-249	250-499
H342001**	...	Solder	27F752	5.24	4.58	4.17	3.93
H342004	Right Angle	Solder	67K0263	2.17	1.90	1.73	1.63
H342004P*	Right Angle	Solder	67K0264	2.30	2.00	1.83	1.72
H342006†	Straight	Solder	67K1753	15.50	13.52	12.33	11.62
H342012	Straight	Solder	67K1754	2.07	1.81	1.65	1.55
H342014	Straight	Solder	27F668	2.07	1.81	1.65	1.55
H342014A	Straight	Solder	67K1755	4.78	4.17	3.80	3.58
H342022	Right Angle	Solder	67K0265	2.17	1.90	1.73	1.63
H345121	Right Angle	Solder	67K0268	2.90	2.53	2.31	2.17
H345101	Right Angle	Solder	72K7286	2.24	1.95	1.78	1.68
H342028	Right Angle	3/16" QC	69K7601	2.44	2.13	1.94	1.83
H342048	Right Angle	3/16" QC	67K0266	2.44	2.13	1.94	1.83

► CONTINUED ►

● Indicates RoHS Compliant

342 SERIES PANEL MOUNT 3AG FUSE HOLDERS (CONT.)

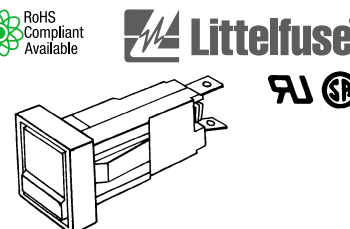
Mfg. Part No.	Mount Style	Terminals+	Stock No.	Price Each			
				1-9	10-99	100-249	250-499
H342058	Straight	3/16" QC	28F153	2.32	2.03	1.85	1.74
H342828	Right Angle	1/4" QC	68K1109	2.44	2.13	1.94	1.83
H342838	Straight	1/4" QC	27F795	2.55	2.23	2.03	1.92
H342848	Right Angle	1/4" QC	67K0267	2.68	2.34	2.14	2.01
H342858	Straight	1/4" QC	27F797	2.55	2.23	2.03	1.92

*Drip-proof; †Watertight; +QC = Quick Connect; **one straight and one right-angle terminal (9203)

348 SERIES LOW PROFILE SNAP MOUNT FUSE HOLDERS FOR 3AG FUSES



Low-profile fuse holders snap into panels 0.031-0.125" (0.787-3.175) thick. Tin-plated brass, quick connect/solder terminals. Rated 15A to 250V. Order bezel caps separately below.



348 SERIES SNAP MOUNT FUSE HOLDERS

Mfg. Part No.	Terminals	Bezel Color	Bezel Cap Color	Stock No.	Price Each		
					1-24	25-49	50-99
H348670	3/16"	Black	...	28F163	3.52	3.24	2.99
H348671	3/16"	Black	Red	12J4392	4.70	4.32	3.99
H348677	3/16"	Black	Black	67K1757	4.70	4.32	3.99
H348870	1/4"	Black	...	28F166	3.52	3.24	2.99

COLOR BEZEL CAPS FOR 348 SERIES FUSE HOLDERS (ABOVE)

Mfg. Part No.	Color	Stock No.	Price Each		
			1-24	25-49	50-99
H348001	Red	28F167	1.19	1.10	1.01
H348005	White	28F168	1.12	1.03	0.95
H348007	Black	28F169	1.19	1.10	1.01

(9206)

345 SERIES INTERNATIONAL SHOCK-SAFE PANEL MOUNT TYPE FUSE HOLDERS



Shock-safe design eliminates the possibility of electrical shock, per IEC Standards 65 and 257. Universal fuse holder body accepts 3AG, 2AG, and 5 x 20mm fuse sizes depending on knob selected. Choice of three terminal styles: dual purpose 3/16" solder/quick-connect, 3/16" NEMA quick-connect, and 1/4" NEMA/DIN quick-connect. Go online or call for drip-proof option available on screwdriver slot knob style, straightback terminal style, and 2AG fuse holders. UL recognized, CSA certified, VDE approved, SEMKO approved.

FOR 3AG FUSES

Mfg. Part No.	Fig.	Terminal	Stock No.	Price Each			
				1-9	10-99	100-249	250-499
H3453LF1	1	3/16" Solder/Quick-Connect	67K0271	1.79	1.58	1.41	1.37
H3453LF3	1	3/16" NEMA Quick-Connect	67K0272	1.91	1.68	1.51	1.47
H3453LF7	1	1/4" NEMA/DIN Quick-Connect	67K0273	1.91	1.68	1.51	1.47
H3453RF1	2	3/16" Solder/Quick-Connect	67K0276	1.91	1.68	1.51	1.47
H3453RF7	2	1/4" NEMA/DIN Quick-Connect	67K0277	2.02	1.78	1.60	1.56
H3453HS1	3	3/16" Solder/Quick-Connect	67K0269	1.79	1.58	1.41	1.37
H3453HS7	3	1/4" NEMA/DIN Quick-Connect	67K0270	1.91	1.68	1.51	1.47
H3453LS1	4	3/16" Solder/Quick-Connect	67K0274	1.79	1.58	1.41	1.37
H3453LS7	4	1/4" NEMA/DIN Quick-Connect	67K0275	1.91	1.68	1.51	1.47

FOR 5 x 20 mm FUSES

H3455LF1	1	3/16" Solder/Quick-Connect	67K0278	1.91	1.68	1.51	1.47
H3455LF7	1	1/4" NEMA/DIN Quick-Connect	67K0279	2.15	1.90	1.70	1.65
H3455HS2	3	3/16" Solder/Quick-Connect	02B7688	1.91	1.68	1.51	1.47
H3455LS1	4	3/16" Solder/Quick-Connect	67K0280	1.91	1.68	1.51	1.47
H3455LS7	4	1/4" NEMA/DIN Quick-Connect	67K0281	2.15	1.90	1.70	1.65

(9306)

FUSE BLOCKS, HOLDERS & CLIPS

250V 5 x 20mm
AND 6.3 x 32 mm
FUSE HOLDERS
AND CARRIERS

Fig. 1



Fig. 2



Fig. 3



Fig. 4

- Rated Current: 16A/250V (UL); 10A/250V (VDE)
- Time/Current Action: Panel or PC Board, Slotted or Finger Grip
- Breaking Capacity: 2.25W Max. @ 25°C (IEC 127-6)
- Size: 5 x 20mm
- UL Recognized, CSA Certified, VDE Approved

FPG SERIES FUSEHOLDERS

Mfg. Part No.	Mount	Fig.	Style	Stock No.	Price Each	
					1-49	50-99
● 3101.0010	Solder/Quick Connect	3	Bayonet/Slotted	84K0264	3.23	2.78
● 3101.0015	Solder/Quick Connect	3	Bayonet/Grip	84K0265	3.24	2.78
● 3101.0030	Solder/Quick Connect	4	Bayonet/Slotted	92F1944	2.72	2.34
● 3101.0035	Solder/Quick Connect	4	Bayonet/Grip	92F1945	3.25	2.80
● 3101.0040	PC Board Thru Hole	2	Bayonet/Slotted	92F1941	3.18	2.73
● 3101.0050	PC Board Thru Hole	1	Bayonet/Slotted	84K0267	3.27	2.81
● 3101.0055	PC Board Thru Hole	4	Bayonet/Finger Grip	23B7666	3.24	2.78
● 3101.0110	Solder/Quick Connect	3	Bayonet/Slot (Watertight)	92F1946	5.16	4.43
● 0031.3558	PC Board Thru Hole	1	Bayonet/Slotted	84K0233	3.50	3.04

FAC SERIES

Mfg. Part No.	Mount	Fuse Type	Style	Stock No.	Price Each	
					1-49	50-99
● 0031.3822	PC Board Thru Hole	Fuseholder	Bayonet	23B4840	2.48	2.15
● 0031.3804	PC Board Thru Hole	Fuseholder	Bayonet/Slotted (Body Only)	34C4579	1.78	1.54
● 0031.3821	PC Board Thru Hole	Fuseholder & Carrier	Bayonet	50H2005	2.43	2.11

FAU SERIES

● 0031.3571	PC Board Thru Hole	Fuseholder & Carrier	Bayonet	32C2780	2.23	1.94
● 0031.3577	PC Board Thru Hole	Fuseholder	Bayonet/Slotted (Body Only)	88F4229	1.46	1.27
● 0031.3581	PC Board Thru Hole	Fuseholder	Bayonet	91B4590	2.00	1.74

FEU SERIES

● 0031.1663*	Solder	Fuse Carrier	Bayonet/Slotted	93B5171	0.79	0.69
● 0031.1699	Panel Mount	Fuseholder & Carrier	Bayonet/Slotted (Body Only)	84K0232	2.19	1.90
● 0031.1680	Panel Mount	Fuseholder & Carrier	Bayonet/Slotted	84K0231	2.25	1.96
● 0031.1653	Panel Mount	Fuseholder & Carrier	Bayonet (Body Only)	93B3562	1.48	1.28

FBS SERIES

● 0031.3901	Panel Mount	Fuseholder	Bayonet/Slotted	91B7789	2.95	2.57
● 0031.3981	PC Board Thru Hole	Fuseholder	Bayonet/Slotted	95F2996	2.59	2.25

FEC SERIES

● 0031.1631	Panel Mount	Fuseholder	Bayonet (Body Only)	96B0421	2.97	2.58
● 0031.1613	Panel Mount	Fuse Carrier	Bayonet/Slotted	84K0229	3.21	2.79

FEF SERIES

● 0031.1081	Panel Mount	Fuseholder	Bayonet/Slotted	84K0228	3.38	2.93
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* Mates with mfg. part no. 0031.1699, mfg. part no. 0031.1653 (2400)

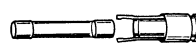
PC BOARD BLOCK
FUSE HOLDERS

Fig. 1

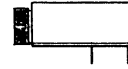


Fig. 2



Fig. 3

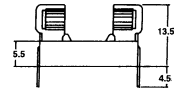


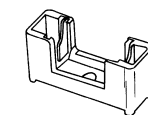
Fig. 4

HB series accepts 5 x 20mm (type number suffix M) or 1/4 x 1 1/4" (mfg. part no. suffix I) fuse with proper carrier. HTC series accepts 5 x 20mm fuses. Rated 250V. UL recognized, CSA certified, SEMKO approved.

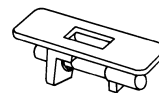
Mfg. Part No.	Fig.	Description†	Stock No.	Price Each			
				1-49	50-99	100-249	250-499
● HBV-I-R	1	V/M w/pins	63K9344	3.77	3.42	3.01	2.35
HBV-M	1	V/M w/pins	46F022	4.00	3.63	3.20	2.50
● HBW-I-R	1	V/M	63K9346	3.50	3.18	2.80	2.19
HTC-45M	2	V/M	09J4511	3.30	3.00	2.64	2.06
● HBH-I-R	3	H/M	63K9342	2.98	2.71	2.39	1.86
HTC-15M	4	V/M Fuse Block	95F1467	0.93	0.85	0.75	0.58
HTC-10M	...	H/M Fuse Block	03J4995	0.83	0.76	0.67	0.52
HTC-50M	...	H/M Fuse Block	93F5383	3.03	2.76	2.43	1.90

†V/M=vertical mount; H/M=horizontal mount (2358)

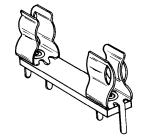
PC FUSE HOLDERS



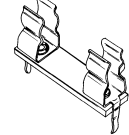
4527



4527C



4245

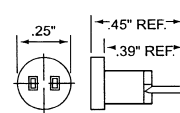


3527

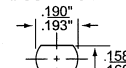
Snap-in PC board fuse holders for use where space is a factor. Tin-plated brass clips, UL94V-0 rated base. Sold in packages of 100.

Mfg. Part No.	Size	Description	Stock No.	Price per Pkg.	
				1-4	
● 4245	3AG	Holder	94F861	130.87	
● 3527	5mm	Holder	95F3325	102.10	
● 4527	5mm	Holder	16F2083	43.17	
● 4527C	5mm	Cover only	16F2084	18.91	

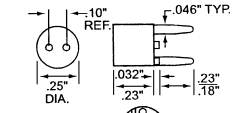
(9256)

281 SERIES PUSH-ON RETAINING NUT
CHASSIS MOUNT AND VERTICAL/HORIZONTAL
PC BOARD MOUNT FUSE HOLDERS

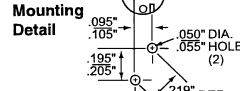
MOUNTING HOLE



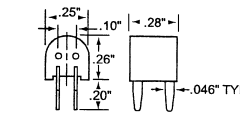
Chassis Mt. Dimensions



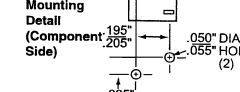
Circuit Board Mounting Detail



Vertical Mt. Dimensions

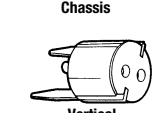
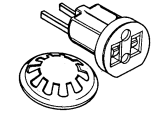


Circuit Board Mounting Detail (Component Side)



Horizontal Mt. Dimensions

All accept Littelfuse MICRO™ fuses and Pico II® fuses with .025" diameter leads. Rated 5A at 125V maximum. Mfg. part no. 281001 chassis mount fuse holder features molded black thermoset body and push-on retaining nut. All others are PC board mount holders with white thermoplastic body.



Horizontal

➔ CONTINUED ➔

CIRCUIT PROTECTION

● Indicates RoHS Compliant

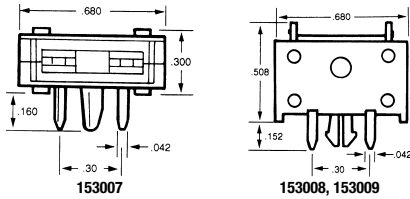
FUSE BLOCKS, HOLDERS & CLIPS

281 SERIES PUSH-ON RETAINING NUT CHASSIS MOUNT AND VERTICAL/HORIZONTAL PC BOARD MOUNT FUSE HOLDERS (CONT.)

Mfg. Part No.	Mounting	Plating	Stock No.	Price Each			
				1-9	10-99	100-249	250-499
● 281001	Chassis	Silver	67K1684	1.86	1.64	1.48	1.40
● 281005	Vertical	Silver	67K1685	1.67	1.47	1.33	1.26
● 281007	Horizontal	Silver	67K1686	1.67	1.47	1.33	1.26
● 281008	Vertical	Tin	98F3951	1.73	1.52	1.37	1.30
● 281010	Horizontal	Tin	95F832	1.81	1.60	1.44	1.37

(9179)

153 SERIES MINI® FUSE PC BOARD FUSE HOLDERS



PC board holders for MINI® Fuse 32V blade-type auto fuses. Available in horizontal, vertical or stackable vertical mount. UL recognized 15A, CSA certified 10A.

Mfg. Part No.	Description	Stock No.	Price Each			
			1-9	10-99	100-249	250-499
● 153007	Horizontal Mount	67K1420	1.18	1.03	0.94	0.89
● 153008	Vertical Mount Single/Stackable (End)	67K1421	1.18	1.03	0.94	0.89
● 153009	Vertical Mount Stackable Holder	67K1422	1.18	1.03	0.94	0.89

(9259)

S-8000 SERIES 1/4 x 1/4" FUSE BLOCKS

Individual thermoplastic barrier blocks with sealed base, 1-piece mounting clips. Multiple units may be subdivided to desired number of poles. UL recognized, CSA certified.



25A SOLDER TERMINALS

Mfg. Part No.	Poles	Clip	Stock No.	Price Each			
				1-49	50-99	100-249	250-499
● S-8001-1-R	1	0°	63K6134	0.90	0.81	0.73	0.66
● S-8001-3-R	3	0°	72K6296	2.80	2.51	2.26	2.04
● S-8002-1-R	1	40°	63K6135	0.73	0.66	0.59	0.53
● S-8002-12-R	12	40°	63K9410	9.74	8.75	7.88	7.10

20A 1/4" QUICK-CONNECT TERMINALS

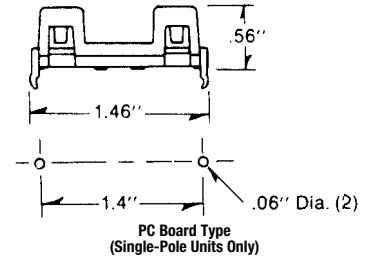
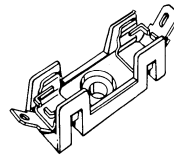
● S-8201-1-R	1	0°	63K6137	0.94	0.84	0.76	0.69
● S-8201-2-R	2	0°	65K4441	1.69	1.52	1.37	1.23
● S-8201-3-R	3	0°	72K6297	2.39	2.14	1.93	1.74
S-8201-4	4	0°	08J0137	3.41	3.07	2.76	2.49
S-8201-5	5	0°	08J0138	4.30	3.87	3.48	3.14
S-8201-10	10	0°	08J0134	19.34	17.39	15.66	14.10
● S-8202-1-R	1	40°	63K6138	0.68	0.61	0.55	0.50
● S-8202-2-R	2	40°	63K9412	1.72	1.54	1.39	1.25
S-8202-3	3	40°	08J0141	2.10	1.89	1.70	1.53
● S-8202-3-R	3	40°	63K9413	2.10	1.89	1.70	1.53
● S-8202-4-R	4	40°	72K6299	3.49	3.13	2.82	2.54
S-8202-5	5	40°	08J0143	4.23	3.80	3.42	3.08
● S-8202-10-R	10	40°	72K6298	8.40	7.55	6.80	6.12
● S-8202-12-R	12	40°	63K9411	10.08	9.06	8.16	7.35

30A SCREW TERMINALS

● S-8301-1-R	1	0°	63K6139	2.52	2.27	2.04	1.84
● S-8301-2-R	2	0°	63K9415	5.98	5.38	4.84	4.36
● S-8301-3-R	3	0°	63K9416	8.70	7.82	7.04	6.34
● S-8301-4-R	4	0°	72K6301	10.95	9.84	8.86	7.98
● S-8301-5-R	5	0°	65K4442	13.79	12.39	11.16	10.05
● S-8301-10-R	10	0°	72K6300	41.60	37.39	33.68	30.32
● S-8301-12-R	12	0°	63K9414	28.90	25.98	23.40	21.06

(2345)

254, 354 and 520 SERIES OMNI-BLOCK® FUSE BLOCKS



PC Board Type (Single-Pole Units Only)

1-piece clip/terminal provides low contact resistance. Multiple-pole units may be broken to desired number of poles. Dielectric strength: 1500V minimum. Glass reinforced, thermoplastic base, rated UL 94V0. UL recognized, CSA certified to 300V.

254 SERIES FUSE BLOCKS FOR SIZE 2AG FUSES

Mfg. Part No.	Terminal	Poles	Stock No.	Price Each	
				1-9	10-99
● 254001	254001-Solder	1	67K1658	0.82	0.71
● 254208	254208-100" Q.C.	8	67K1659	6.31	5.47

520 SERIES FUSE BLOCKS FOR SIZE 5 x 20mm FUSES

● 520003	520003	3	67K2290	0.68	0.59
● 520004	520004	4	67K7448	0.68	0.59
● 520101	520101	1	69K7674	0.71	0.62

354 SERIES FUSE BLOCKS FOR SIZE 3AG FUSES

● 354001GY	354001-GY/Solder	1	67K1758	0.66	0.57
● 354002GY	354002-GY/Solder	2	67K1759	1.28	1.11
● 354012-GY	354012-GY/Solder	12	67K1761	7.51	6.51
● 354601GY	354601-GY/3/16" Q.C.	1	67K1780	0.66	0.57
● 354612GY	354612-GY/3/16" Q.C.	12	67K1781	7.51	6.51
● 354801GY	354801-GY/1/4" Q.C.	1	67K1782	0.66	0.57
● 354802-GY	354802-GY/1/4" Q.C.	2	67K7446	1.28	1.11
● 354101GY	354812-GY/1/4" Q.C.	12	67K1768	0.69	0.60
● 354101GY	354101-GY PC Board	1	67K1768	0.69	0.60
● 354901GY	354901-GY/1/4" Q.C.	1	67K1783	0.98	0.85
● 354912GY	354912-GY/1/4" Q.C.	12	67K1784	11.16	9.67

(9307)

OPEN-DESIGN FUSE CLIPS/BLOCKS



Fig. 1



Fig. 2



Fig. 3

- Series/Voltage: 0G/0GN/0GD 250V
- Rated Current: 16A/250V; 10A/250V
- Time/Current Action: PCB

- Breaking Capacity: 2.5W Max. @ 25°C (IEC127-6)
- UL Recognized, CSA Certified, VDE Approved

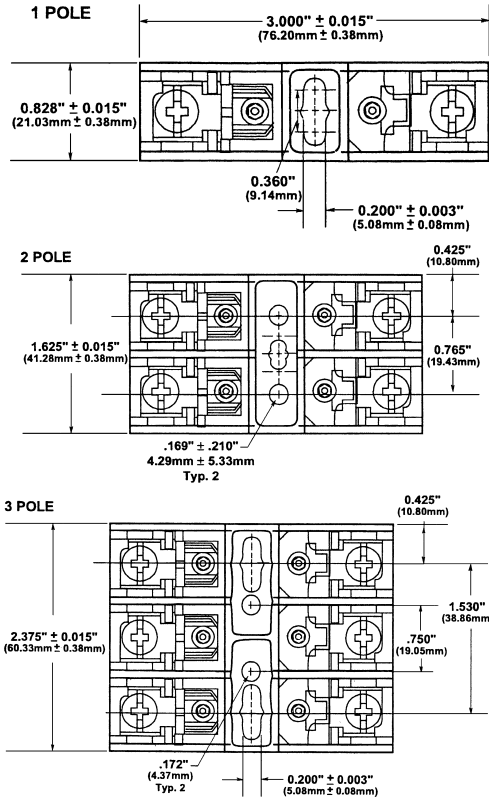
Mfg. Part No.	Fig.	Fuse Size	Pin Spacing	Stock No.	Price Each	
					1-49	50-99
● 0751.0099	1	1/4" or 5mm	5mm	88K2078	0.56	0.49
● 0031.8201	2	5 x 20mm	22.5mm	96F8317	0.59	0.52
● 0031.8231	3	1/4" or 5mm	5 x 20mm	92F1964	1.21	1.06
● 0751.0110	...	...	...	24C7847	0.10	0.09
● 0751.0100	...	...	...	95B8510	0.52	0.46
● 0031.8211	...	...	...	96B9380	0.59	0.52

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each	
			1-49	50-99
● 0853.9561	Cover	18C4063	0.38	0.33
● 0853.0551	Cover	90B9824	0.42	0.36

(2398)

FUSE BLOCKS, HOLDERS & CLIPS

TYPE M
FUSEBLOCKS

Class CC fuseblocks. Ampere rating: 1/10 to 30 amperes. Voltage rating: 600VAC. UL flammability: 94V0. UL Listed, CSA Certified. For use with Class CC fuses (Bussman LP-CC, KTK-R, and FRQ-R).

1-POLE

Mfg. Part No.	Description	Stock No.	Price Each		
			1-9	10-49	50-249
BC6031B	Box Lug	02B2170	14.67		
BC6031P	Pressure Plate	02B2171	8.49		
BC6031PQ	Pressure Plate w/ Quick Connect*	02B2172	8.68		
BC6031S	Screw	92F5791	6.99		
BC6031SQ	Screw w/Quick Connect*	90F8842	6.99		

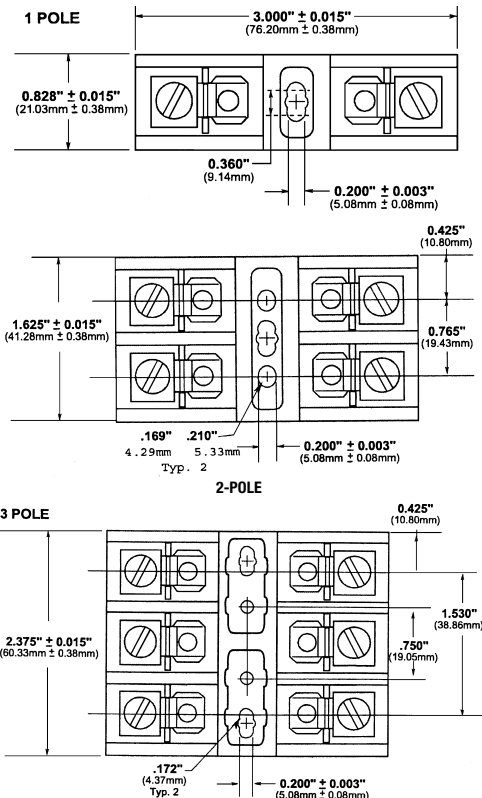
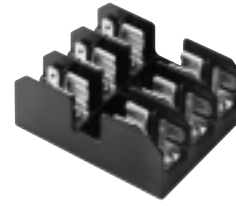
2-POLE

BC6032B	Box Lug	02B2173	28.22		
BC6032P	Pressure Plate	02B2174	12.76		
BC6032PQ	Pressure Plate w/ Quick Connect*	02B2175	13.09		
BC6032S	Screw	98F522	10.26		
BC6032SQ	Screw w/Quick Connect*	98F5333	11.00		

3-POLE

BC6033B	Box Lug	02B2176	34.81		
BC6033P	Pressure Plate	02B2177	16.83		
BC6033PQ	Pressure Plate w/ Quick Connect*	02B2178	17.16		
BC6033S	Screw	98F1635	14.88		
BC6033SQ	Screw w/Quick Connect*	02B2179	14.88		

*Quick Connect rated for 20A maximum.
(72274)

TYPE M
SUPPLEMENTARY
FUSEBLOCKS

Ampere rating: 1/10 to 30A. Voltage rating: 600VAC. For use with any 1/2" x 1 1/2" fuses (Bussman KTK, FNO, FNM, BAF, BAN and AGU). UL Recognized, CSA Certified.

1-POLE

Mfg. Part No.	Description	Stock No.	Price Each		
			1-9	10-49	50-249
BM6031B	Box Lug	70B1126	10.36	10.03	9.54
BM6031PQ	Pressure Plate w/Quick Connect*	02B2359	6.21	6.02	5.72
BM6031SQ	Screw w/Quick Connect*	28F357	4.63	4.48	4.26

2-POLE

BM6032B	Box Lug	94F2505	20.38	19.74	18.78
BM6032PQ	Pressure Plate w/Quick Connect*	98F7990	10.59	10.25	9.75
BM6032SQ	Screw w/Quick Connect*	28F358	8.06	7.81	7.43

3-POLE

BM6033B	Box Lug	94F2432	30.93	29.96	28.50
BM6033PQ	Pressure Plate w/Quick Connect*	02B2360	13.53	13.10	12.46
BM6033SQ	Screw w/Quick Connect*	28F359	10.68	10.35	9.84

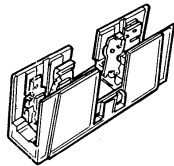
*Quick Connect rated for 20A maximum.
(72275)

FUSE BLOCKS, HOLDERS & CLIPS • RESETTABLE PTCS

L600 MIDGET FUSE BLOCKS



Compact, 600V fuse blocks for 1/2 x 1 1/2" midget fuses. Locking blocks together permits any number of poles. Box lug terminals rated 30A. Quick connect terminals rated 20A. Dielectric strength: 1200V minimum. Clip/terminals: tin-plated copper alloy. UL94V0 rated thermoplastic base. Type numbers with **C** suffix have copper box lug terminals; **SQ** suffix have screw/quick connect terminals.

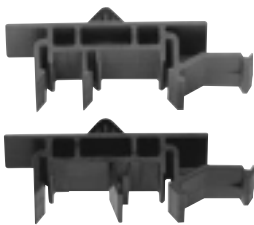


Mfg. Part No.	Poles	Stock No.	Price Each			
			1-9	10-99	100-249	250+
● L60030M-1C	1	18M9174	11.93	10.95	9.60	8.73
● L60030M-2C	2	18M9176	23.48	21.56	18.89	17.18
● L60030M-3C	3	18M9178	35.62	32.71	28.66	26.07
● L60030M-1SQ	1	18M9175	5.33	4.89	4.29	3.90
● L60030M-2SQ	2	18M9177	9.29	8.53	7.47	6.80
● L60030M-3SQ	3	18M9179	12.30	11.30	9.90	9.00

(9185)

ADAPTERS FOR DIN AND AMERICAN RAILS

- Buss DIN-Rail Adapters Permit Secure, Positive Snap-On Mounting of Buss 0 to 30 Ampere Fuseblocks (One, Two, or Three Pole) On the Various Size Rails (Rail Mounting Eliminates Costly and Time Consuming Drilling, Tapping, and Screw Mounting)
- Adapter Mechanically Locks Into Mounting Hole of Fuseblock in Seconds to Become an Integral Part of the Block
- One Adapter is Required for Buss One and Two Pole Blocks
- With the Exception of the 32mm DIN-Rail, All Blocks With Adapters Can Be Removed From a Rail Simply By Pulling Up Its release Tab
- Use of Rail End-Stops On Both Sides of Adapters Is Recommended



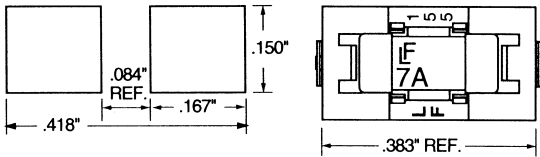
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ADAPTERS FOR DIN AND AMERICAN RAILS (CONT.)

Mfg. Part No.	Stock No.	Price Each		
		1-9	10-24	25-49
DRA-1	02B2597	2.28	2.16	2.01
DRA-2	02B2598	2.26	2.20	2.11

(72267)

R154 SERIES SMF OMNI-BLOCK® FUSE BLOCK



Permits quick and easy replacement of NANO² surface mount fuses. Fuse replacement accomplished without exposing the PC board to the detrimental side effects of solder heat. Soldering parameters (fuse installed): 500°F (260°C), 30 sec. except **mfg. part nos. 154XXX**, 445°F (230°C), 30 sec. Solderability: MIL-STD-202, method 208. Go online or call for a complete line of Omni-blok[®] fuse blocks.

WITH VERY FAST-ACTING FUSE INSTALLED

Mfg. Part No.	Current Rating (A)	Stock No.	Price Each			
			1-9	10-99	100-249	250-499
● R154.500	1/2	67K0916	1.64	1.60	1.56	1.53
● R154.750	3/4	66F4348	1.39	1.36	1.32	1.29
● R154001	1	66F4349	1.39	1.36	1.32	1.29
● R15401.5	1 1/2	66F4350	1.39	1.36	1.32	1.29
● R154002	2	66F4351	1.39	1.36	1.32	1.29
● R154003	3	66F4352	1.39	1.36	1.32	1.29
● R154007	7	67K0918	1.39	1.36	1.32	1.29

WITH SLO-BLO® FUSE INSTALLED

● R154001T	1	52F9164	1.81	1.77	1.72	1.68
● R15401.5T	1 1/2	67K0919	1.81	1.77	1.72	1.68
● R154002T	2	52F9166	1.81	1.77	1.72	1.68
● R154003T	3	52F9168	1.81	1.77	1.72	1.68

(9373)

MF-R SERIES PTC RESETTABLE FUSES

Features:

- Radial Leaded Devices
- Cured, Flame-Retardant Epoxy Polymer Insulating Material Meets UL 94V-0 Requirements
- UL recognized, CSA certified, TÜV approved

Applications:

- Computers and Peripherals
- General Electronics

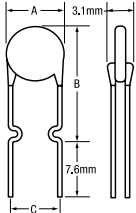


Fig. 1

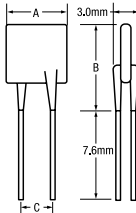


Fig. 2



DIMENSIONS (mm)

Mfg. Part No.	Fig.	A	B	C	Mfg. Part No.	Fig.	A	B	C
MF-R010	1	7.4	12.7	5.1	MF-R185	1	12	18.4	5.1
MF-R020	1	7.4	12.7	5.1	MF-R250	2	12	18.3	5.1
MF-R025	1	7.4	12.7	5.1	MF-RX250	1*	21.3	34	10.2
MF-R030	1	7.4	13.4	5.1	MF-RX300	1*	24.9	37.6	10.2
MF-R040	1	7.4	13.7	5.1	MF-R300	2	12	18.3	5.1
MF-R050	1	7.9	13.7	5.1	MF-R400	2	14.4	24.8	10.2
MF-R065	1	9.7	15.2	5.1	MF-R500	2	17.4	24.9	10.2
MF-R075	1	10.4	16	5.1	MF-R600	2	19.3	31.9	10.2
MF-R090	1	11.7	16.7	5.1	MF-R700	2	22.1	29.8	10.2
MF-R110	1	8.9	14	5.1	MF-R800	2	24.2	32.9	10.2
MF-R135	1	8.9	18.9	5.1	MF-R900	2	24.2	32.9	10.2
MF-R160	1	10.2	16.8	5.1	...	...	...	...	...

*Fig. 1, but with straight leads, dim. "B" = total height

Mfg. Part No.	Fig.	Volts (V _{max})	I _{max} (A)	Amps @ 23°C		Resistance @ 23°C (Ω)		Stock No.	Price Each	
				I _{hold}	I _{trip}	Min.	Max.		1-9	10-99
● MF-R010	1	60	40	0.1	0.2	2.5	4.5	58K1834	0.49	0.45
● MF-R020	1	60	40	0.2	0.4	1.5	2.84	58K1835	0.52	0.48
● MF-R025	1	60	40	0.25	0.5	1	1.95	60K6264	0.52	0.48
● MF-R030	1	60	40	0.3	0.6	0.76	1.36	58K1836	0.52	0.48
● MF-R040	1	60	40	0.4	0.8	0.52	0.86	58K1837	0.55	0.51
● MF-R050	1	60	40	0.5	1	0.41	0.77	58K1838	0.55	0.51
● MF-R065	1	60	40	0.65	1.3	0.27	0.48	59K0235	0.55	0.51
● MF-R075	1	60	40	0.75	1.5	0.18	0.4	58K1839	0.55	0.51
● MF-R090	1	60	40	0.9	1.8	0.14	0.31	59K0236	0.55	0.51
● MF-R110-RC	1	30	40	1.1	2.2	0.1	0.18	60K6265	0.55	0.51
● MF-R135	1	30	40	1.35	2.7	0.065	0.115	58K1840	0.55	0.51

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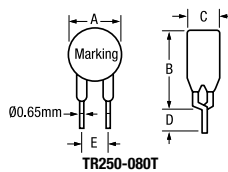
RESETTABLE PTCs

MF-R SERIES PTC RESETTABLE FUSES (CONT.)

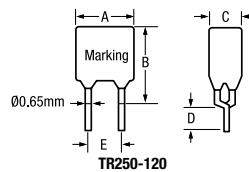
Mfg. Part No.	Fig.	Volts (V _{max})	I _{max} (A)	Amps @ 23°C		Resistance @ 23°C (Ω)		Stock No.	Price Each	
				I _{hold}	I _{trip}	Min.	Max.		1-9	10-99
● MF-R160	1	30	40	1.6	3.2	0.055	0.105	58K1841	0.61	0.56
● MF-R185	1	30	40	1.85	3.7	0.04	0.07	58K1842	0.61	0.56
● MF-RX250	1	60	40	2.5	5	0.05	0.08	05B2464	0.68	0.62
● MF-R250	2	30	40	2.5	5	0.025	0.048	59K0237	0.68	0.62
● MF-RX300	1	60	40	3	6	0.04	0.06	05B2469	0.71	0.65
● MF-R300	2	30	40	3	6	0.02	0.05	58K1843	0.71	0.65
● MF-R400	2	30	40	4	8	0.01	0.03	58K1844	0.74	0.67
● MF-R500	2	30	40	5	10	0.01	0.03	16F1791	0.80	0.73
● MF-R600	2	30	40	6	12	0.005	0.02	16F1792	0.83	0.76
● MF-R700	2	30	40	7	14	0.005	0.02	59K0238	0.86	0.79
● MF-R800	2	30	40	8	16	0.005	0.02	58K1845	0.89	0.81
● MF-R900	2	30	40	9	18	0.005	0.01	58K1846	0.95	0.87

(4162)

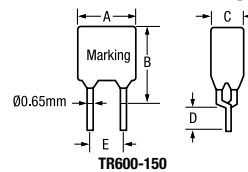
TR SERIES RADIAL-LEAD DEVICES FOR TELECOM AND NETWORKING APPLICATIONS



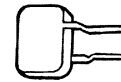
TR250-080T



TR250-120



TR600-150



Features

- Resettable Overcurrent Protection
- Fast Time-To-Trip Speed
- Low Parasitic Capacitance/Flat Impedance with Frequency
- Compatible with High-Volume Assembly Processes

Applications

- Legacy POTS and Digital Communications Equipment
- Modems, Fax Machines, Phone and PBX Systems
- Alarm Systems
- MDF Modules, Analog and Digital Line Cards, T1/E1 Equipment, DSL Modems and Splitters
- Powered Ethernet Systems, VoIP (Voice Over IP) Equipment, LAN, WAN, Customer Premise Equipment and Access Network Hardware

TR60 series suitable for ITU-T, K20, K21, and K45 phone applications. Typical activation temperature: 125°C. Thermal derating: medium. UL recognized, CSA certified. Also available on tape and reel, *go online or call*.

Mfg. Part No.	Operating Voltage (VDC)	Hold Current (A)	Trip Current (A)	Rated Current Max. (A)	Initial Resis. Min. (Ω)	Initial Resis. Max. (Ω)	R1 Max. Post Trip (Ω)	Dimensions: inches (mm)					Sold Individually			Tape & Reel		
								A (max.)	B (max.)	C (max.)	D (max.)	E (max.)	Stock No.	1-4	5-9	Stock No.	Reel Qty.	Price Each
● TRF250-080T	60	0.08	0.16	3	15	22	33	0.228 (5.8)	0.390 (9.9)	0.181 (4.6)	0.185 (4.7)	0.197 (5.0)	03M1128	0.50	0.48	...	...	...
● TRF250-080U	60	0.08	0.16	3	14	20	33	0.189 (4.8)	0.366 (9.3)	0.150 (3.8)	0.185 (4.7)	0.197 (5.0)	03M1129	0.44	0.42	...	...	...
TR250-110U	60	0.11	0.22	3	5	9	16	0.210 (5.3)	0.370 (9.4)	0.150 (3.8)	0.185 (4.7)	0.197 (5.0)	92C0691	0.49	0.47	...	...	...
● TRF250-120	60	0.12	0.24	3	4	8	16	0.256 (6.5)	0.433 (11.0)	0.180 (4.6)	0.185 (4.7)	0.197 (5.0)	86K0364	0.47	0.45	...	...	...
TR250-120T	60	0.12	0.24	3	7	12	16	0.256 (6.5)	0.394 (10.0)	0.150 (3.8)	0.185 (4.7)	0.197 (5.0)	92C0693	0.55	0.52	...	...	...
● TRF250-120U	60	0.12	0.24	3	6	10	16	0.236 (6.0)	0.394 (10.0)	0.180 (4.6)	0.185 (4.7)	0.197 (5.0)	03M1143	0.44	0.42	...	...	...
TR250-120UT	60	0.12	0.24	3	7	12	16	0.236 (6.0)	0.394 (10.0)	0.180 (4.6)	0.185 (4.7)	0.197 (5.0)	92C0697	0.48	0.46	...	...	...
TR250-145	60	0.145	0.29	3	3	6	14	0.256 (6.5)	0.433 (11.0)	0.180 (4.6)	0.185 (4.7)	0.197 (5.0)	92C0698	0.50	0.47	...	...	...
● TRF250-180	250	0.18	0.36	3	3.5	8.5	8.5	0.354 (9.0)	0.496 (12.6)	0.150 (3.8)	0.185 (4.7)	0.197 (5.0)	04H8313	0.51	0.49	...	...	...
● TRF600-150-2	250	0.15	0.3	3	6	10	28	0.531 (13.5)	0.496 (12.6)	0.236 (6.0)	0.185 (4.7)	0.197 (5.0)	...	...	...	01J3871	1500	0.55
● TRF600-150-RB	60	0.15	0.3	3	9	12	22	0.531 (13.5)	0.496 (12.6)	0.236 (6.0)	0.185 (4.7)	0.197 (5.0)	40K9786	0.76	0.72	...	...	...
● TRF600-160	250	0.16	0.32	3	4	10	18	0.630 (16.0)	0.496 (12.6)	0.236 (6.0)	0.185 (4.7)	0.197 (5.0)	03M1156	0.81	0.77	...	...	...

(9388)

LVRL SERIES RADIAL-LEADED PTC RESETTABLE FUSES

Features

- Overcurrent and overtemperature protection in a single component
- Resettable functionality
- Latching device
- Compliant with UL 1434 safety standards

Applications

- Continuous-operation motors
- Intermittent-operation motors
- Transformers
- Power supplies
- Fans and blowers
- Electronic controllers

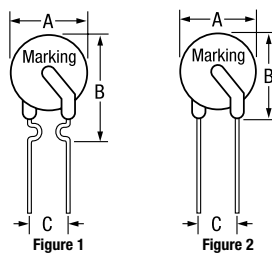
Mfg. Part No.	Oper. Volt. (VDC)	Hold Current (A)	Trip Current (A)	Rated Current Max. (A)	R1 Max. Post Trip (Ω)	Dim.: inches (mm)			Stock No.	Price Each
						A (max.)	B (max.)	C (max.)		
● LVRL075S	240	0.75	1.5	7.5	0.84	0.45 (11.5)	0.92 (23.4)	0.24 (6.1)	02M9704	0.62
● LVRL100S	240	1	2	10	0.58	0.74 (18.7)	0.96 (24.4)	0.45 (11.4)	02M9705	0.77
● LVRL125S	240	1.25	2.5	12.5	0.44	0.84 (21.2)	1.08 (27.4)	0.45 (11.4)	02M9706	0.87

(94480)

RESETTABLE PTCs

RXE SERIES RADIAL LEAD THRU-HOLE DEVICES

Unlike traditional fuses, which must be replaced after they blow, PolySwitch™ PTC (positive temperature coefficient) devices reset after the cause of the fault current and power to the circuit is removed. Fast time to trip. Typical activation temperature: 125°C. Thermal derating: medium. Resettable overcurrent circuit protection up to 60V @ 40A or 600V @ 3A. PolySwitch™ resettable fuses are low in resistance and are available in through-hole and surface mount configurations. Solid-state construction. Applications: audio speakers, solenoids/valves, fire and security alarm systems, medical equipment, motors, test instruments, power supplies, industrial controls, automotive small-motor and electronic circuits. UL recognized, CSA certified, TÜV approved. Available on tape and reel. Most popular values listed, additional values available; *go online or call*.

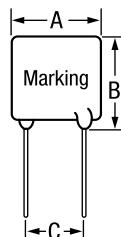


Mfg. Part No.	Fig.	Operating Voltage (V)	Hold Current (A)*	Trip Current (A)	Rated Current Max. (A)	Initial Res. Min. (Ω)	Initial Res. Max. (Ω)	Dimensions: inches (mm)			Tape Cut			Tape & Reel		
								A (max.)	B (max.)	C (max.)	Stock No.	Price Each		Stock No.	Reel Qty.	Price Each
												1-9	10-99			
● RXEF005	...	60	0.05	0.1	40	7.3	11.1	0.32 (8.0)	0.33 (8.3)	0.23 (5.8)	04H8104	0.39	0.36	04H8105	3000	0.24
● RXEF010	1	60	0.1	0.2	40	2.5	4.5	0.29 (7.4)	0.46 (11.6)	0.23 (5.8)	04H8106	0.39	0.35	04H8107	3000	0.23
● RXEF017	1	60	0.17	0.34	40	3.3	5.21	0.29 (7.4)	0.50 (12.7)	0.23 (5.8)	04H8108	0.39	0.36	04H8109	2500	0.24
● RXEF020	1	72	0.2	0.4	40	1.83	2.75	0.29 (7.4)	0.46 (11.6)	0.23 (5.8)	04H8110	0.40	0.36	04H8111	3000	0.24
● RXEF025	1	72	0.25	0.5	40	1.25	1.95	0.29 (7.4)	0.50 (12.7)	0.23 (5.8)	04H8112	0.40	0.37	04H8113	3000	0.24
● RXEF030	1	72	0.3	0.6	40	0.88	1.33	0.29 (7.4)	0.50 (12.7)	0.23 (5.8)	04H8114	0.40	0.37	04H8115	3000	0.24
● RXEF040	1	72	0.4	0.8	40	0.55	0.86	0.30 (7.6)	0.53 (13.5)	0.23 (5.8)	04H8116	0.44	0.40	04H8117	3000	0.26
● RXEF050	1	72	0.5	1	40	0.5	0.77	0.31 (7.9)	0.54 (13.7)	0.23 (5.8)	04H8118	0.44	0.41	04H8119	3000	0.27
● RXEF065	1	72	0.65	1.3	40	0.31	0.48	0.37 (9.4)	0.57 (14.5)	0.23 (5.8)	04H8120	0.45	0.41	04H8121	3000	0.27
● RXEF075	1	72	0.75	1.5	40	0.25	0.4	0.40 (10.2)	0.60 (15.2)	0.23 (5.8)	04H8122	0.45	0.42	04H8123	3000	0.27
● RXEF090	1	72	0.9	1.8	40	0.2	0.31	0.44 (11.2)	0.62 (15.8)	0.23 (5.8)	99H1959	0.46	0.42	99H1960	3000	0.28
● RXEF110	2	72	1.1	2.2	40	0.15	0.25	0.50 (12.8)	0.69 (17.5)	0.23 (5.8)	04H8124	0.46	0.42	04H8125	1500	0.28
● RXEF135	2	72	1.35	2.7	40	0.12	0.19	0.57 (14.5)	0.75 (19.1)	0.23 (5.8)	04H8126	0.48	0.44	04H8127	1500	0.29
● RXEF135K	1	72	1.35	2.7	40	0.12	0.19	0.54 (13.58)	0.78 (19.8)	0.23 (5.8)	40K8559	0.48	0.44	40K8560	1500	0.29
● RXEF160	2	72	1.6	3.2	40	0.09	0.14	0.64 (16.3)	0.82 (20.8)	0.23 (5.8)	04H8128	0.49	0.45	04H8129	1500	0.30
● RXEF185	2	72	1.85	3.7	40	0.08	0.12	0.69 (17.5)	0.88 (22.4)	0.23 (5.8)	04H8130	0.53	0.49	04H8131	1500	0.32
● RXEF250	2	72	2.5	5	40	0.05	0.08	0.82 (20.8)	1.00 (25.4)	0.43 (10.9)	04H8132	0.59	0.54	04H8133	1000	0.36
● RXEF300	2	72	3	6	40	0.04	0.06	0.94 (23.9)	1.13 (28.6)	0.43 (10.9)	04H8134	0.63	0.58	04H8135	1000	0.38
● RXEF375	2	72	3.75	7.5	40	0.03	0.05	1.07 (27.2)	1.25 (31.8)	0.43 (10.9)	04H8136	0.66	0.61	...	...	...

(9371)

RGE SERIES THRU-HOLE DEVICES

RGE series R-line devices can be used in a wide variety of automotive, computer, and general electronics applications. Feature high-current carrying capability (up to 11 amps) in a small package with fast trip times. Current rating: 100A max. Use for hold currents up to 14A. Typical activation temperature: 125°C. Thermal derating medium. UL recognized, CSA certified, TÜV approved.



Mfg. Part No.	Operating Voltage (V)	Hold Current (A)	Trip Current (A)	Rated Current Max. (A)	Initial Res. Min. (Ω)	Initial Res. Max. (Ω)	Dimensions: inches (mm)			Sold Individually			Tape & Reel		
							A (max.)	B (max.)	C (max.)	Stock No.	Price Each		Stock No.	Reel Qty.	Price Each
											1-49	50-99			
● RGEF250	16	2.5	4.5	100	0.022	0.035	0.35 (8.9)	0.50 (12.8)	0.23 (5.8)	04H7805	0.49	0.44	04H7806	3000	0.27
● RGEF300	16	3	5.1	100	0.038	0.0645	0.28 (7.1)	0.43 (11)	0.23 (5.8)	04H7807	0.51	0.46	04H7808	2500	0.29
● RGEF400	16	4	6.8	100	0.021	0.0385	0.35 (8.9)	0.50 (12.8)	0.23 (5.8)	04H7809	0.54	0.49	04H7810	2500	0.30
● RGEF500	16	5	8.5	100	0.015	0.0230	0.41 (10.4)	0.56 (14.3)	0.23 (5.8)	04H7811	0.59	0.53	04H7812	2000	0.33
● RGEF600	16	6	10.2	100	0.010	0.0185	0.42 (10.7)	0.67 (17.1)	0.23 (5.8)	04H7813	0.62	0.56	04H7814	2000	0.35
● RGEF700	16	7	11.9	100	0.0077	0.0130	0.44 (11.2)	0.78 (19.7)	0.23 (5.8)	04H7815	0.65	0.58	04H7816	1500	0.36
● RGEF800	16	8	13.6	100	0.0056	0.0110	0.50 (12.7)	0.82 (20.9)	0.23 (5.8)	04H7817	0.70	0.63	04H7818	1500	0.39
● RGEF900	16	9	15.3	100	0.0047	0.0092	0.55 (14)	0.85 (21.7)	0.23 (5.8)	04H7819	0.72	0.65	04H7820	1000	0.40
● RGEF1000	16	10	17	100	0.0040	0.0071	0.65 (16.5)	0.99 (25.2)	0.23 (5.8)	04H7797	0.74	0.67	04H7798	1000	0.42
● RGEF1100	16	11	18.7	100	0.0037	0.0062	0.69 (17.5)	1.02 (26)	0.23 (5.8)	04H7799	0.77	0.70	04H7800	1000	0.43
● RGEF1200	16	12	20.4	100	0.0033	0.00595	0.69 (17.5)	1.10 (28)	0.43 (10.9)	04H7801	0.89	0.80	04H7802	1000	0.48
● RGEF1400	16	14	23.8	100	0.0056	0.00445	0.925 (23.5)	1.10 (27.9)	0.43 (10.9)	04H7803	1.03	0.93	04H7804	1000	0.57

(16629)



(94652)

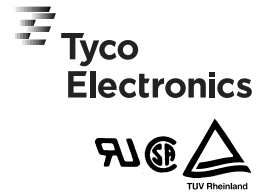
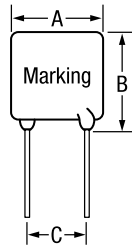
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RESETTABLE PTCS

RUE SERIES THRU-HOLE RESETTABLE FUSES

RUE series thru-hole R-line devices are designed to be used in a wide variety of general electronics applications. Typical activation temperature: 125°C. Thermal derating: medium. RUE series devices complement the RHE series by providing a smaller form factor with lower resistance and higher hold current capability (up to 9 amps). Current rating: 40A max. UL recognized, CSA certified, TÜV approved.

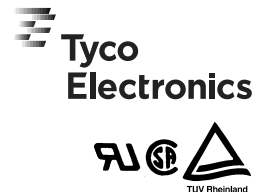
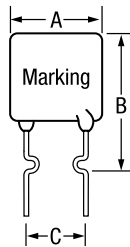


Mfg. Part No.	Operating Voltage (V)	Hold Current (A)*	Trip Current (A)	Rated Current Max. (A)	Initial Resis. Min. (Ω)	Initial Resis. Max. (Ω)	Dimensions: inches (mm)			Sold Individually			Tape & Reel		
							A (max.)	B (max.)	C (max.)	Stock No.	Price Each		Stock No.	Reel Qty.	Price Each
											1-49	50-99			
● RUEF090	30	0.9	1.8	40	0.07	0.12	0.29 (7.4)	0.48 (12.2)	0.23 (5.8)	04H7985	0.45	0.41	04H7986	3000	0.23
● RUEF110	30	1.1	2.2	40	0.05	0.1	0.29 (7.4)	0.56 (14.2)	0.23 (5.8)	04H7987	0.46	0.41	04H7988	3000	0.24
● RUEF135	30	1.35	2.7	40	0.04	0.08	0.35 (8.9)	0.53 (13.5)	0.23 (5.8)	04H7989	0.47	0.42	04H7990	3000	0.24
● RUEF160	30	1.6	3.2	40	0.03	0.07	0.35 (8.9)	0.6 (15.2)	0.23 (5.8)	04H7991	0.49	0.44	04H7992	3000	0.25
● RUEF185	30	1.85	3.7	40	0.03	0.06	0.4 (10.2)	0.62 (15.7)	0.23 (5.8)	04H7993	0.51	0.46	04H7994	3000	0.26
● RUEF250	30	2.5	5	40	0.02	0.04	0.45 (11.4)	0.72 (18.3)	0.23 (5.8)	04H7995	0.52	0.47	04H7996	3000	0.27
● RUEF300	30	3	6	40	0.02	0.05	0.45 (11.4)	0.65 (16.5)	0.23 (5.8)	04H7997	0.55	0.49	04H7998	2500	0.28
● RUEF400	30	4	8	40	0.01	0.03	0.55 (14)	0.76 (19.3)	0.23 (5.8)	04H7999	0.59	0.53	04H8000	1500	0.30
● RUEF500	30	5	10	40	0.01	0.03	0.55 (14)	0.95 (24.1)	0.43 (10.9)	04H8001	0.65	0.58	04H8002	1500	0.33
● RUEF600	30	6	12	40	0.005	0.002	0.65 (16.5)	0.95 (24.1)	0.43 (10.9)	04H8003	0.69	0.62	04H8004	1000	0.35
● RUEF700	30	7	14	40	0.005	0.002	0.75 (19.1)	1.02 (25.9)	0.43 (10.9)	04H8005	0.74	0.66	04H8006	1000	0.38
● RUEF800	30	8	16	40	0.005	0.013	0.85 (21.6)	1.12 (28.4)	0.43 (10.9)	04H8007	0.76	0.69	04H8008	1000	0.39
● RUEF900	30	9	18	40	0.005	0.01	0.95 (24.1)	1.14 (29)	0.43 (10.9)	04H8009	0.81	0.73	04H8010	1000	0.41

*Hold current @ 20°C.
(16637)

RHE SERIES RADIAL-LEADED PTC RESETTABLE FUSES FOR ELECTRONICS APPLICATIONS

- 16V-High Temperature
- RHE series Fuses has Flatter Thermal Derating and Operating Temperature up to 125°C
- Typical Activation Temperature: 125°C
- Thermal Derating: Medium
- UL Recognized, CSA Certified, TÜV Approved



Available in Tape and Reel, go online or call.

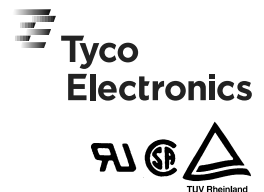
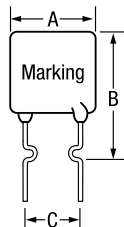
Mfg. Part No.	Operating Voltage (V)	Hold Current (A)*	Trip Current (A)	Rated Current Max. (A)**	Initial Resis. Min. (Ω)	Initial Resis. Max. (Ω)	Dimensions: inches (mm)			Sold Individually			Tape & Reel		
							A (max.)	B (max.)	C (max.)	Stock No.	Price Each		Stock No.	Reel Qty.	Price Each
											1-49	50-99			
● RHEF050	30	0.5	0.5	40	0.48	0.79	0.29 (7.4)	0.50 (12.7)	0.23 (5.8)	40K8288	0.47	0.43	40K8290	2500	0.26
● RHEF070	30	0.7	1.4	40	0.3	0.541	0.27 (6.9)	0.43 (10.8)	0.23 (5.8)	04H7866	0.52	0.47	04H7867	2500	0.27
● RHEF200	16	2	3.8	100	0.045	0.074	0.37 (9.4)	0.57 (14.4)	0.23 (5.8)	99H1241	0.60	0.54	40K8298	2500	0.31
● RHEF400	16	4	7	100	0.018	0.029	0.45 (11.4)	0.71 (18)	0.23 (5.8)	04H7874	0.66	0.60	04H7875	1500	0.35
● RHEF450	16	4.5	7.8	100	0.022	0.0355	0.41 (10.4)	0.61 (15.6)	0.23 (5.8)	04H7876	0.69	0.62	04H7877	1500	0.36
● RHEF600	16	6	10.8	100	0.013	0.0215	0.44 (11.2)	0.83 (21)	0.23 (5.8)	04H7878	0.76	0.68	04H7879	2000	0.37
● RHEF650	16	6.5	12	100	0.011	0.0175	0.50 (12.7)	0.88 (22.2)	0.23 (5.8)	04H7880	0.77	0.69	04H7881	1500	0.39
● RHEF750	16	7.5	13.1	100	0.0094	0.015	0.55 (14)	0.93 (23.5)	0.23 (5.8)	04H7882	0.82	0.74	04H7883	1000	0.42
● RHEF1000	16	10	18.5	100	0.0062	0.0103	0.69 (17.5)	1.04 (26.5)	0.43 (10.9)	04H7868	1.01	0.91	04H7869	1000	0.51
● RHEF1300	16	13	24	100	0.0041	0.0068	0.925 (23.5)	1.13 (28.7)	0.43 (10.9)	04H7870	1.17	1.05	04H7871	1000	0.58
● RHEF1500	16	15	28	100	0.0032	0.0063	0.925 (23.5)	1.13 (28.7)	0.43 (10.9)	04H7872	1.29	1.16	04H7873	1000	0.63

*Hold Current @ 25°C

**Device may withstand higher interrupt current at lower voltages. Each application will need to be individually evaluated.
(727139)

RUSB SERIES RADIAL-LEADED PTC RESETTABLE FUSES

- Use the RUSB Series for Fast Time-to-Trip and Low-Resistance, USB (Serial Bus) Computer Applications
- Typical Activation Temperature: 125°C
- Thermal Derating: Medium



UL recognized, CSA certified, TÜV approved. Available on tape and reel. Go online or call.

Mfg. Part No.	Operating Voltage (V)	Hold Current (A)*	Trip Current (A)	Rated Current Max. (A)**	Initial Resis. Min. (Ω)	Initial Resis. Max. (Ω)	Dimensions: inches (mm)			Tape Cut			Tape & Reel		
							A (max.)	B (max.)	C (max.)	Stock No.	Price Each		Stock No.	Reel Qty.	Price Each
											1-49	50-99			
● RUSBF075	6	0.75	1.3	40	0.11	0.175	0.27 (6.9)	0.45 (11.4)	0.23 (5.9)	04H8066	0.40	0.36	04H8067	3000	0.21
● RUSBF090	16	0.9	1.8	40	0.07	0.12	0.29 (7.4)	0.48 (12.2)	0.2 (5.08)	04H8068	0.47	0.42	04H8069	3000	0.24
● RUSBF110	16	1.1	2.2	40	0.05	0.095	0.29 (7.4)	0.56 (14.2)	0.2 (5.08)	04H8070	0.47	0.43	04H8071	3000	0.24
● RUSBF120	6	1.2	2	40	0.065	0.095	0.27 (6.9)	0.46 (11.7)	0.23 (5.9)	04H8072	0.48	0.43	04H8073	3000	0.25
● RUSBF135	16	1.35	2.7	40	0.04	0.074	0.35 (8.9)	0.53 (13.5)	0.2 (5.08)	04H8074	0.49	0.44	04H8075	3000	0.25

➔ CONTINUED ➔

RESETTABLE PTCs

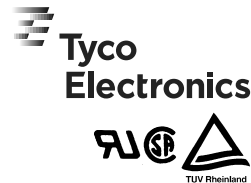
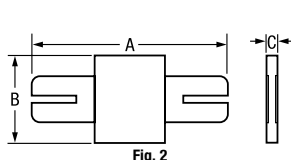
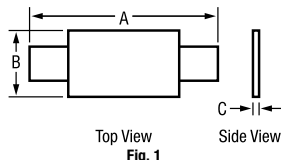
RUSB SERIES RADIAL-LEADED PTC RESETTABLE FUSES (CONT.)

Mfg. Part No.	Operating Voltage (V)	Hold Current (A)*	Trip Current (A)	Rated Current Max. (A)**	Initial Resis. Min. (Ω)	Initial Resis. Max. (Ω)	Dimensions: inches (mm)			Tape Cut			Tape & Reel		
							A (max.)	B (max.)	C (max.)	Stock No.	Price Each		Stock No.	Reel Qty.	Price Each
											1-49	50-99			
● RUSBF155	6	1.55	2.65	40	0.043	0.0705	0.27 (6.9)	0.46 (11.7)	0.23 (5.9)	04H8076	0.49	0.44	04H8077	3000	0.25
● RUSBF160	16	1.6	3.2	40	0.03	0.061	0.35 (8.9)	0.6 (15.2)	0.2 (5.08)	04H8078	0.50	0.45	04H8079	3000	0.26
● RUSBF185	16	1.85	3.7	40	0.03	0.051	0.4 (10.1)	0.62 (15.7)	0.2 (5.08)	04H8080	0.52	0.47	04H8081	3000	0.27
● RUSBF250	16	2.5	5	40	0.02	0.036	0.45 (10.2)	0.72 (18.3)	0.2 (5.08)	04H8082	0.54	0.48	04H8083	3000	0.26

*Hold current @ 20°C (72720) **Device may withstand higher interrupt current at lower voltages. Each application will need to be individually evaluated

SRP SERIES STRAP DEVICES

For use in rechargeable battery packs. SRP: 120°C. Thermal derating: medium. UL recognized, CSA certified, TÜV approved. Also available on tape and reel, go online or call.

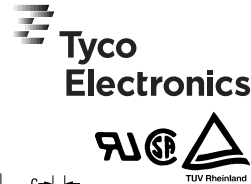
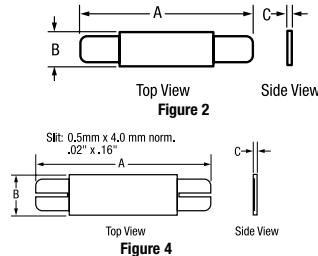
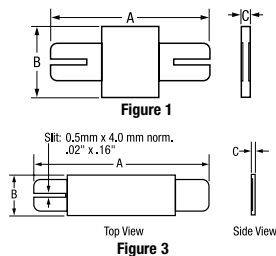


Mfg. Part No.	Operating Voltage Max. (VDC)	Hold Current (A)*	Trip Current (A)	Rated Current Max. (A)	Initial Resis. Min. (Ω)	Initial Resis. Max. (Ω)	R1 Max. (Ω)	Fig.	Dimensions: inches (mm)			Stock No.	Price Each			
									A (max.)	B (max.)	C (max.)		1-49	50-99	100-199	200-499
● SRP120F	15	1.2	2.7	100	0.085	0.16	0.22	1	0.87 (22.1)	0.2 (5.2)	0.04 (1)	40K9555	0.60	0.54	0.49	0.44
● SRP175F	15	1.75	3.8	100	0.05	0.09	0.12	1	0.91 (23.1)	0.2 (5.2)	0.04 (1)	99H2613	0.60	0.54	0.49	0.44
● SRP175SSF	15	1.75	3.8	100	0.05	0.09	0.12	2	0.91 (23.1)	0.2 (5.2)	0.04 (1)	40K9558	0.62	0.55	0.50	0.46
● SRP200F	30	2	4.4	100	0.03	0.06	0.1	1	0.92 (23.4)	0.43 (11)	0.04 (1.1)	99H2614	0.60	0.54	0.49	0.44
● SRP350F	30	3.5	6.3	100	0.017	0.031	0.05	1	1.25 (31.8)	0.53 (13)	0.04 (1.1)	99H2616	0.66	0.60	0.54	0.49
● SRP420F	30	4.2	7.6	100	0.012	0.024	0.04	1	1.28 (32.4)	0.54 (13.6)	0.04 (1.1)	31K9843	0.65	0.58	0.53	0.48

*@20°C (9387)

VTP SERIES RESETTABLE STRAP FUSES

- VTP: 90°C
- Thermal Derating: High
- UL Recognized, CSA Certified, TÜV Approved

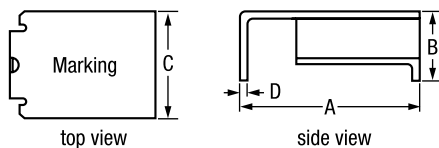


Available on tape and reel; go online or call.

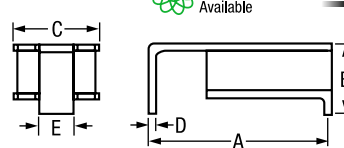
Mfg. Part No.	Operating Voltage Max. (VDC)	Hold Current (A)*	Trip Current (A)	Rated Current Max. (A)	Initial Resis. Min. (Ω)	Initial Resis. Max. (Ω)	R1 Max. (Ω)	Fig.	Dimensions: inches (mm)			Stock No.	Price Each	
									A (max.)	B (max.)	C (max.)		1-49	50-99
● VTP170SSF	16	1.7	3.4	100	0.03	0.052	0.105	1	0.689 (17.5)	0.292 (7.4)	0.3 (0.8)	40K9900	0.77	0.69
● VTP175LF	16	1.75	3.6	100	0.029	0.051	0.102	2	1.11(28.2)	0.13 (3.5)	0.3 (0.8)	99H3804	0.82	0.74
● VTP200GF	16	2	4.7	100	0.022	0.039	0.078	2	0.91 (23.1)	0.18 (4.5)	0.3 (0.8)	40K9908	0.85	0.77
● VTP200UF	16	2	4.7	100	0.022	0.039	0.078	5	0.91 (23.1)	0.17 (4.3)	0.3 (0.7)	40K9909	0.85	0.77
● VTP210GF	16	2.1	4.7	100	0.018	0.03	0.06	2	0.91 (23.1)	0.21 (5.3)	0.3 (0.8)	40K9911	0.80	0.71
● VTP210SF	16	2.1	4.7	100	0.018	0.03	0.06	3	0.91 (23.1)	0.21 (5.3)	0.3 (0.8)	99H3810	0.80	0.71
● VTP210SSF	16	2.1	4.7	100	0.018	0.03	0.06	4	0.91 (23.1)	0.21 (5.3)	0.3 (0.8)	40K9912	0.83	0.74
● VTP240F	16	2.4	5.9	100	0.014	0.026	0.052	2	1.03 (26.2)	0.2 (5.1)	0.3 (0.8)	40K9913	0.82	0.74

*Hold current @ 25°C (72721)

TS SERIES SURFACE MOUNT RESETTABLE FUSES FOR TELECOM AND NETWORKING APPLICATIONS



TS250 Series



TSL250 Series



Use the TR250 series for ITU-T K.20, K.21, and K.45 telephone applications.

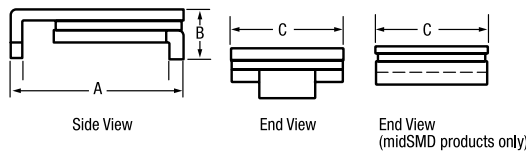
Mfg. Part No.	Operating Voltage (VDC)	Hold Current (A)	Trip Current (A)	Rated Current Max. (A)	Initial Resis. Min. (Ω)	Initial Resis. Max. (Ω)	R1 Max. Post Trip (Ω)	Dimensions: inches (mm)					Price Each			
								A (max.)	B (max.)	C (max.)	D (max.)	E (max.)	Stock No.	1-49	50-99	100-199
TS250-130-2	60	0.13	0.26	3	6.5	12	20	0.37 (9.4)	0.135 (3.4)	0.29 (7.4)	0.011 (0.3)	...	94C1344	0.95	0.85	0.77
● TS250-130F-RA-2	60	0.13	0.26	3	6.5	9	15	0.37 (9.4)	0.135 (3.4)	0.29 (7.4)	0.011 (0.3)	...	85K9118	0.97	0.88	0.80
TS250-130-RB-2	60	0.13	0.26	3	9	12	20	0.37 (9.4)	0.135 (3.4)	0.29 (7.4)	0.011 (0.3)	...	94C1342	0.97	0.88	0.80
TSL250-080-2	80	0.08	0.16	3	5	11	20	0.31 (7.9)	0.145 (3.7)	0.21 (5.3)	0.015 (0.4)	0.120 (3.1)	94C1336	0.97	0.88	0.80

(72721)

RESETTABLE PTCS

SMD SERIES SURFACE MOUNT DEVICES

SMD size 7255 (mm), 2920 (mils). Typical activation temperature: 125°C. Thermal derating: medium. Not designed for wave soldering to circuit boards. Applications include computers and peripherals, disk drives, Ethernet cards, local area networks, and PC cards. Meet MIL-T-10727B specifications. UL recognized, CSA certified, TUV approved.

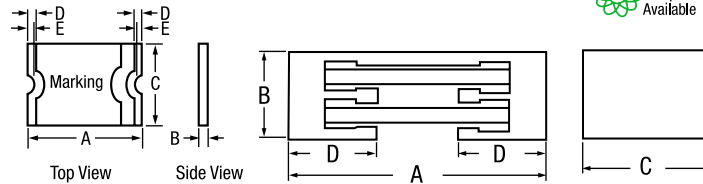


Mfg. Part No.	Operating Voltage (VDC)	Hold Current (A)*	Trip Current (A)	Rated Current Max. (A)	R1 Max. Post Trip (Ω)	Dimensions: inches (mm)			Tape Cut			Tape & Reel		
						A (max.)	B (max.)	C (max.)	Stock No.	Price Each		Stock No.	Reel Qty.	Price Each
										1-49	50-99			
● SMD030F-2	60	0.3	0.6	10	4.8	0.314 (7.98)	0.125 (3.18)	0.214 (5.44)	69K8044	0.56	0.51	99H2390	2000	0.30
● SMD050F-2	60	0.5	1	10	1.4	0.314 (7.98)	0.125 (3.18)	0.214 (5.44)	69K8045	0.56	0.51	99H2392	2000	0.30
● SMD075F-2	30	0.75	1.5	40	1	0.314 (7.98)	0.125 (3.18)	0.214 (5.44)	69K8046	0.56	0.51	99H2394	2000	0.30
● SMD100F-2	30	1.1	2.2	40	0.48	0.314 (7.98)	0.118 (3.00)	0.214 (5.44)	69K8048	0.56	0.51	99H2395	2000	0.30
● SMD125F-2	15	1.25	2.5	40	0.25	0.314 (7.98)	0.118 (3.00)	0.214 (5.44)	69K8051	0.56	0.51	99H2398	2000	0.30
● SMD150F-2	15	1.5	3	40	0.25	0.370 (9.40)	0.118 (3.00)	0.264 (6.71)	69K8052	0.59	0.53	99H2399	1500	0.31
● SMD185F-2	33	1.8	3.6	40	0.165	0.370 (9.40)	0.118 (3.00)	0.264 (6.71)	69K8055	0.63	0.57	99H2402	1500	0.33
● SMD200F-2	15	2	4	40	0.125	0.370 (9.40)	0.118 (3.00)	0.264 (6.71)	69K8056	0.59	0.53	99H2403	1500	0.31
● SMD250F-2	15	2.5	5	40	0.085	0.370 (9.40)	0.118 (3.00)	0.264 (6.71)	69K8058	0.60	0.55	99H2405	1500	0.32
● SMD260F-2	6	2.6	5.2	40	0.075	0.314 (7.98)	0.118 (3.00)	0.214 (5.44)	69K8059	0.59	0.53	99H2406	2000	0.31
● SMD300F-2	6	3	6	40	0.048	0.314 (7.98)	0.118 (3.00)	0.214 (5.44)	69K8060	0.59	0.53	99H2407	2000	0.31

*Hold current @ 20°C (9399)

miniSMD™ SURFACE MOUNT DEVICES

The miniSMD™ device's small size make them excellent choices for computers and peripherals, disk drives, adapter cards, DC-to-DC converters, portable electronics and phones, and other high-density electronics. Available on tape and reel, go online or call. UL recognized, CSA certified, TUV approved.

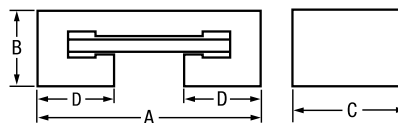


Mfg. Part No.	Operating Voltage Max. (VDC)	Hold Current (A)*	Trip Current (A)	Rated Current Max. (A)	R1 Max. Post Trip (Ω)	Dimensions: inches (mm)					Tape Cut			Tape & Reel		
						A (max.)	B (max.)	C (max.)	D (min.)	E (min.)	Stock No.	Price Each		Stock No.	Reel Qty.	Price Each
												1-49	50-99			
● MINISMD014F-2	60	0.14	0.34	10	6	0.186 (4.73)	0.035 (0.89)	0.134 (3.41)	0.010 (0.25)	0.008 (0.2)	69K8005	0.43	0.39	98H4534	2000	0.26
● MINISMD020F-2	30	0.2	0.4	10	3.3	0.186 (4.73)	0.035 (0.89)	0.134 (3.41)	0.010 (0.25)	0.008 (0.2)	69K8006	0.42	0.38	04H6741	2000	0.25
● MINISMD050F-2	24	0.5	1	100	1	0.186 (4.73)	0.025 (0.62)	0.134 (3.41)	0.010 (0.25)	0.008 (0.2)	69K8007	0.42	0.38	04H6744	2000	0.25
● MINISMD075F-2	13.2	0.75	1.5	100	0.45	0.186 (4.73)	0.025 (0.62)	0.134 (3.41)	0.010 (0.25)	0.008 (0.2)	69K8008	0.43	0.39	98H4537	2000	0.26
● MINISMD110F-2	8	1.1	2.2	100	0.21	0.186 (4.73)	0.025 (0.62)	0.134 (3.41)	0.010 (0.25)	0.008 (0.2)	69K8010	0.35	0.32	98H4540	2000	0.21
● MINISMD125F-2	6	1.25	2.5	100	0.14	0.186 (4.73)	0.019 (0.48)	0.134 (3.41)	0.010 (0.25)	0.008 (0.2)	69K8013	0.42	0.38	98H4543	2000	0.25
● MINISMD150F-2	6	1.5	3	100	0.11	0.186 (4.73)	0.019 (0.48)	0.134 (3.41)	0.010 (0.25)	0.008 (0.2)	69K8016	0.43	0.39	04H6749	2000	0.26
● MINISMD160F-2	9	1.6	3.2	100	0.1	0.186 (4.73)	0.019 (0.48)	0.134 (3.41)	0.010 (0.25)	0.008 (0.2)	69K8019	0.42	0.38	04H6750	2000	0.25
● MINISMD200F-2	8	2	4	100	0.07	0.186 (4.73)	0.048 (1.22)	0.134 (3.41)	0.010 (0.25)	0.008 (0.2)	69K8020	0.47	0.43	04H6752	2000	0.29
● MINISMD260F-2	6	2.6	5	100	0.043	0.186 (4.73)	0.050 (1.25)	0.134 (3.41)	0.010 (0.25)	0.008 (0.2)	69K8021	0.47	0.43	98H4547	1500	0.29

*Hold current, 20°C (9390)

POLYSWITCH SURFACE MOUNT RESETTABLE FUSES

- Smaller Size Saves Board Space and Cost
- Many Product Choices Give Engineers More Design Flexibility
- Compatible with High-Volume Electronics Assembly
- Assists in Meeting Regulatory Requirements
- Higher Voltage Ratings Allow Use in New Applications
- UL Listed, CSA Certified, TUV Approved



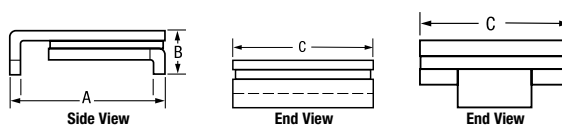
Mfg. Part No.	Operating Voltage (VDC)	Hold Current (A)*	Trip Current (A)	Rated Current Max. (A)	R1 Max. Post Trip (Ω)	Dimensions: inches (mm)				Tape Cut			Tape & Reel		
						A (max.)	B (max.)	C (max.)	D (max.)	Stock No.	Price Each		Stock No.	Reel Qty.	Price Each
											1-49	50-99			
● NANOSMDC020F-2	24	0.2	0.42	100	2.6	0.118 (3.00)	0.025 (0.64)	0.071 (1.80)	0.03 (0.75)	69K8024	0.43	0.39	98H4550	3000	0.24
● NANOSMDC035F-2	16	0.35	0.75	20	1.4	0.118 (3.00)	0.025 (0.64)	0.071 (1.80)	0.03 (0.75)	69K8025	0.43	0.39	40K7884	3000	0.24
● NANOSMDC075F-2	6	0.75	1.5	100	0.4	0.118 (3.00)	0.019 (0.48)	0.071 (1.80)	0.03 (0.75)	69K8027	0.43	0.39	04H6771	3000	0.24
● NANOSMDC110F-2	6	1.1	2.2	100	0.2	0.118 (3.00)	0.039 (1.00)	0.071 (1.80)	0.03 (0.75)	69K8028	0.44	0.40	04H6772	3000	0.25

(72722)

RESETTABLE PTCs

SURFACE MOUNT RESETTABLE FUSES

- midSMD Size: 5050 (mm), 2018 (mils)
- Typical Activation Temperature: 125°C
- Thermal Derating: Medium
- Not Designed to be Wave Soldered to Circuit Boards
- UL Recognized, CSA Certified, TUV Approved
- Available on Tape and Reel; *go online or call*

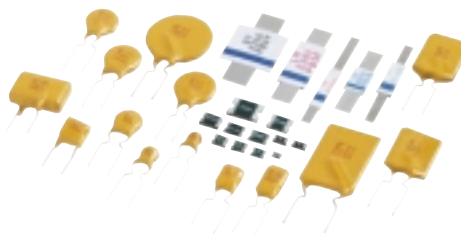


Mfg. Part No.	Operating Voltage (VDC)	Hold Current (A)*	Trip Current (A)	Rated Current Max. (A)	R1 Max. Post Trip (Ω)	Dimensions: inches (mm)			Stock No.	Price Each	
						A (max.)	B (max.)	C (max.)		1-49	50-99
SMD050-2018	57	0.55	1.2	10	1	0.214 (5.44)	0.07 (1.78)	0.194 (4.93)	92C3204	0.66	0.60
SMD150-2018	15	1.5	3	40	0.18	0.214 (5.44)	0.06 (1.52)	0.194 (4.93)	92C3206	0.67	0.60

*Hold current, 20°C
(72725)

9177POLYFUSE® RESETTABLE PTCs

0805L, 1206L, 1210L and 1812 series low-profile, low resistance surface mount fuses compact design saves board space. Feature fast response to fault currents and are compatible with high temperature solders. 2920L series low-profile, high voltage surface mount fuses feature fast response to fault currents. 250R and 600R series radial leaded fuses feature fast time-to-trip. 600R series also available in ammo pack; *go online or call Newark.*



Just Added



0805L SERIES — SURFACE MOUNT

Mfg. Part No.	Marking	Operating Voltage (VDC)	Hold Current (A)	Trip Current (A)	Rated Current Max. (A)	Initial Resis. Min. (Ω)	Typical Resis. (Ω)	R1 Max. (Ω)	Tape Cut			Tape & Reel		
									Stock No.	Price Each		Stock No.	Reel Qty.	Price Each
● 0805L010	A	15	0.1	0.3	100	1	3.5	6	18M4774	1.59	1.48	05M2225	4000	1.08
● 0805L035	E	6	0.35	0.75	100	0.25	0.75	1.2	18M4775	1.59	1.48	05M2227	4000	1.08
● 0805L050	F	6	0.5	1	100	0.15	0.5	0.85	18M4776	1.78	1.66	05M2228	3000	1.21
● 0805L075	G	6	0.75	1.5	40	0.09	...	0.35	18M4777	1.78	1.66	05M2229	3000	1.21
● 0805L100	N	6	1.1	1.95	40	0.06	...	0.21	18M4778	1.97	1.83	05M2230	3000	1.34

1206L SERIES — SURFACE MOUNT

● 1206L035/15	J	15	0.35	0.75	100	0.3	0.75	1.2	18M4779	0.31	0.29	05M2303	4000	0.21
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1210L SERIES — SURFACE MOUNT

● 1210L005	A	30	0.05	0.15	10	3.6	25	50	18M4780	0.36	0.34	05M2311	3000	0.25
● 1210L010	B	30	0.1	0.3	10	1.6	7	15	18M4781	0.36	0.34	05M2312	3000	0.25
● 1210L035	E	6	0.35	0.7	100	0.32	0.81	1.3	18M4782	0.36	0.34	05M2314	4000	0.25
● 1210L050	F	13.2	0.5	1	100	0.25	0.55	0.9	18M4783	0.36	0.34	05M2315	4000	0.25

1812L SERIES — SURFACE MOUNT

● 1812L014	LF014	60	0.14	0.34	10	1.5	4	6	18M4784	0.60	0.56	05M2395	1500	0.41
● 1812L020	LF020	30	0.2	0.4	100	0.8	2.9	5	18M4785	0.43	0.40	05M2396	2000	0.29
● 1812L050-C	LF050	15	0.5	1	100	0.15	0.6	1	18M4786	0.27	0.25	05M2397	2000	0.18
● 1812L075-C	LF075	13.2	0.75	1.5	100	0.1	0.26	0.45	18M4787	0.43	0.40	05M2398	2000	0.29
● 1812L110-C	LF110	6	1.1	2.2	100	0.04	0.12	0.21	18M4788	0.29	0.27	05M2401	2000	0.20

2920L SERIES — SURFACE MOUNT

● 2920L030	LF030	60	0.3	0.6	10	1.2	3	4.8	18M4789	0.46	0.42	05M2789	1500	0.31
● 2920L050	LF050	60	0.5	1	10	0.35	0.87	1.4	18M4790	0.46	0.42	05M2790	1500	0.31
● 2920L075	LF075	30	0.75	1.5	40	0.35	0.67	1	18M4791	0.46	0.42	05M2791	1500	0.31
● 2920L100	LF100	33	1.1	2.2	40	0.12	0.27	0.41	18M4792	0.46	0.42	05M2792	2000	0.31
● 2920L125	LF125	15	1.25	2.5	40	0.07	0.16	0.25	18M4793	0.95	0.89	05M2793	2000	0.65
● 2920L150	LF150	33	1.5	3	40	0.08	0.15	0.23	18M4794	0.48	0.45	05M2794	1500	0.33
● 2920L185	LF185	33	1.85	3.7	40	0.065	0.11	0.15	18M4795	0.50	0.47	05M2795	1500	0.34
● 2920L200	LF200	15	2	4	40	0.05	0.09	0.125	18M4796	0.48	0.45	05M2796	1500	0.33
● 2920L250	LF250	15	2.5	5	40	0.035	0.06	0.085	18M4797	1.19	1.11	05M2798	1500	0.81

250R SERIES — RADIAL LEADED

Mfg. Part No.	Marking	Operating Voltage (VDC)	Hold Current (A)	Trip Current (A)	Rated Current Max. (A)	Initial Resis. Min. (Ω)	Typical Resis. (Ω)	R1 Max. (Ω)	Sold Individually			Tape & Reel		
									Stock No.	Price Each		Stock No.	Reel Qty.	Price Each
● 250R120	...	60	0.12	0.24	3	4	8	16	05M2690	0.61	0.57	...	...	...
● 250R180	...	60	0.18	0.65	10	0.8	2.2	4	05M2714	0.67	0.63	...	...	...

600R SERIES — RADIAL LEADED

● 600R150	...	600	0.15	0.3	3	6	12	22	05M2975	1.39	1.31	...	...	...
● 600R150-RA	...	600	0.15	0.3	3	7	10	20	05M2976	1.39	1.31	18M4798	600	0.79
● 600R150-RB	...	600	0.15	0.3	3	9	12	22	05M2978	0.99	0.93	18M4799	600	0.79

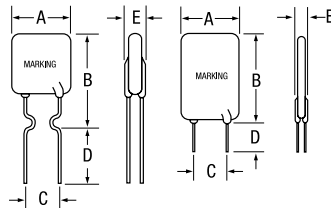
(89633)

RESETTABLE PTCS

30R SERIES PTC



30R series radial-leaded PTC resettable fuses. Voltage rating: 30V. Thermalset coating. Lead material, **mfg. part nos. 30R090-250**: tin-plated copper-clad steel; **mfg. part no. 30R300-900**: tin-plated copper, 20 AWG (0.032" dia.). Operating/storage temperature: -40°C to +85°C. Devices are marked with amperage rating, voltage rating and date code. Short circuit rating: 30A. Lead solderability meets MIL-STD-202, Method 208E.



Mfg. Part No.	Dim. A (max. in.)	Dim. B (max. in.)	Dim. C (typ. in.)
30R090	0.26	0.48	0.20
30R110	0.26	0.56	0.20
30R135	0.35	0.53	0.20
30R160	0.35	0.60	0.20
30R185	0.40	0.62	0.20
30R250	0.45	0.72	0.20
30R300	0.45	0.68	0.20
30R400	0.55	0.79	0.20
30R500	0.55	0.98	0.40
30R600	0.65	0.98	0.40
30R700	0.75	1.05	0.40
30R800	0.85	1.15	0.40
30R900	0.95	1.17	0.40

Dim. D is 0.30" min.; Dim. E is 0.12" max.

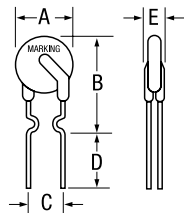
Mfg. Part No.	I_{hold}^* (A)	I_{trip}^{**} (A)	I_{sc} (A)	P_a max. (W)	Stock No.	Price Each			
						1-49	50-99	100-499	500-999
30R090	0.90	1.80	40	0.6	85F270	0.64	0.59	0.52	0.46
30R110	1.10	2.20	40	0.7	85F271	0.64	0.59	0.52	0.46
30R135	1.35	2.70	40	0.8	85F272	0.64	0.59	0.52	0.46
30R160	1.60	3.20	40	0.9	85F273	0.70	0.65	0.57	0.51
30R185	1.85	3.70	40	1.0	85F274	0.73	0.67	0.59	0.53
30R250	2.50	5.00	40	1.2	85F275	0.79	0.73	0.64	0.57
30R300	3.00	6.00	40	2.0	85F276	0.85	0.79	0.69	0.62
30R400	4.00	8.00	40	2.5	85F277	0.97	0.90	0.79	0.70
30R500	5.00	10.00	40	3.0	85F278	1.03	0.95	0.84	0.75
30R600	6.00	12.00	40	3.5	85F279	1.09	1.01	0.89	0.79
30R700	7.00	14.00	40	3.8	85F280	1.16	1.06	0.94	0.84
30R800	8.00	16.00	40	4.0	85F281	1.19	1.09	0.96	0.86
30R900	9.00	18.00	40	4.2	85F282	1.28	1.18	1.04	0.92

* I_{hold} = Hold Current: max. current that device will sustain for 4 hours minimum without switching at 20°C
 ** I_{trip} = Trip Current: minimum current that will switch device into high resistance state at 20°C
 (14127)

60R SERIES PTC



60R series radial-leaded PTC resettable fuses. Voltage rating: 60V. Lead material, **mfg. part no. 60R010**: tin-coated constantan, 24 AWG (0.020" dia.); **mfg. part nos. 60R017-40**: tin-plated, copper-clad steel, 24 AWG (0.020" dia.); **mfg. part nos. 60R050-090**: tin-plated copper, 24 AWG (0.020" dia.); **mfg. part nos. 60R110-375**: tin-plated copper, 20 AWG (0.032" dia.). 40A short circuit rating. Operating/storage temperature: -40°C to +85°C. Thermalset coating. Marked with amperage rating, voltage rating, date code. Lead solderability meets MIL-STD-202, Method 208E.



60R Series

Mfg. Part No.	A (max. in.)	B (max. in.)	C (typ. in.)
60R010	0.29	0.50	0.20
60R017	0.29	0.50	0.20
60R020	0.29	0.48	0.20
60R025	0.29	0.5	0.20
60R030	0.29	0.51	0.20
60R040	0.30	0.53	0.20
60R050	0.30	0.54	0.20
60R065	0.38	0.57	0.20
60R075	0.41	0.60	0.20
60R090	0.46	0.62	0.20
60R110	0.51	0.71	0.20
60R135	0.57	0.77	0.20
60R160	0.64	0.84	0.20
60R185	0.70	0.90	0.20
60R250	0.84	1.04	0.40
60R300	0.98	1.18	0.40
60R375	1.12	1.32	0.40

Mfg. Part No.	I_{hold}^* (A)	I_{trip}^{**} (A)	I_{sc} (A)	P_a max. (W)	Stock No.	Price Each			
						1-49	50-99	100-499	500-999
60R010	0.10	0.20	40	0.38	85F253	0.63	0.58	0.50	0.46
60R017	0.17	0.34	40	0.48	85F254	0.60	0.55	0.48	0.44

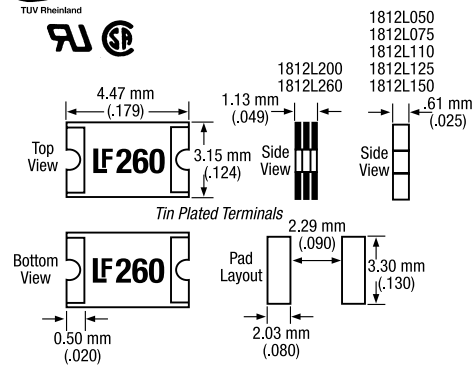
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60R SERIES PTC (CONT.)

Mfg. Part No.	I_{hold}^* (A)	I_{trip}^{**} (A)	I_{sc} (A)	P_a max. (W)	Stock No.	Price Each			
						1-49	50-99	100-499	500-999
60R020	0.20	0.40	40	0.41	85F255	0.60	0.55	0.48	0.44
60R025	0.25	0.50	40	0.45	85F256	0.39	0.36	0.31	0.28
60R030	0.30	0.60	40	0.49	85F257	0.60	0.55	0.48	0.44
60R040	0.40	0.80	40	0.56	85F258	0.63	0.58	0.50	0.46
60R050	0.50	1.00	40	0.77	85F259	0.63	0.58	0.50	0.46
60R065	0.65	1.30	40	0.88	85F260	0.67	0.61	0.53	0.48
60R075	0.75	1.50	40	0.92	85F261	0.70	0.64	0.55	0.51
60R090	0.90	1.80	40	0.99	85F262	0.70	0.64	0.55	0.51
60R110	1.10	2.20	40	1.50	85F263	0.79	0.72	0.63	0.57
60R135	1.35	2.70	40	1.70	85F264	0.79	0.72	0.63	0.57
60R160	1.60	3.20	40	1.90	85F265	0.79	0.72	0.63	0.57
60R185	1.85	3.70	40	2.10	85F266	0.85	0.78	0.68	0.62
60R250	2.50	5.00	40	2.50	85F267	0.98	0.89	0.78	0.71
60R300	3.00	6.00	40	2.80	85F268	1.04	0.95	0.83	0.76
60R375	0.75	7.50	40	3.20	85F269	1.04	0.95	0.83	0.76

* I_{hold} = Hold Current: maximum current the device will sustain for 4 hours minimum without switching at 20°C
 ** I_{trip} = Trip Current: minimum current that will switch the device into a high resistance state at 20°C
 (14128)

1812L SERIES PTC



Recommended Pad Layout
 All dimensions are nominal

1812L series resettable devices utilize a unique polymer-based positive temperature coefficient (PTC) material to protect electrical circuits against overcurrent conditions. Terminal material: tin plated copper. Operating/storage temperature: -40°C to +85°C. Meets EIA specification RS186-9E, IPC/EIA J-STD-002, and IPC/EIA J-STD-001. Soldering parameters: for reflow solder, 245°C, 20 seconds maximum; for wave solder, 245°C, 10 seconds maximum. UL recognized, CSA certified, TÜV approved.

Mfg. Part No.	I_{hold} (A)	I_{trip} (A)	V_{max} (VDC)	I_{max} (A)	P_a max. (W)	Stock No.	Price Each	
							1-99	100-499
1812L050PRT	0.50	1.00	15.0	40	0.8	34C6971	0.53	0.40
1812L075PRT	0.75	1.50	13.2	40	0.8	34C6972	0.53	0.40
1812L125PRT	1.25	2.50	6.0	40	0.8	34C6974	0.56	0.42
1812L260MR	2.60	5.20	6.0	40	0.8	34C6977	0.80	0.60
1812L150	1.50	3.00	6.0	40	0.8	94B6280	0.53	0.40

(35880)



For surface mount and thru-hole
 PC board surge arrestors
 (gas discharge tubes),
 on pages 1259-1260

(88609)

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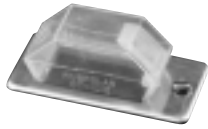
(94656)

CIRCUIT BREAKER BOOTS/SEALS • MAGNETIC CIRCUIT BREAKERS

FLEXIBLE TRANSPARENT ENVIRONMENTAL SEALING BOOTS FOR CIRCUIT BREAKERS



APM HEXSEAL

CT10 Series
Front-Panel Mounted
Circuit-Breaker BootsCT113 Series
Back-of-Panel Mount
Circuit-Breaker Boots

Flexible, transparent silicone rubber sealing boots for lever-actuated style circuit breakers. Units provide an environmental seal for breaker and panel cutout. Tolerant to sunlight, weather, salt spray, ozone, most acids/cleaning solvents. UL recognized, CSA certified.

CT10 SERIES FRONT-PANEL MOUNTED BOOTS

Mfg. Part No.	No. of Poles	DESIGN TO FIT CIRCUIT BREAKER SERIES				Stock No.	Price Each
		AIRPAX	CARLING-SWITCH	HEINE-MANN	POTTER & BRUMFIELD		
● CT1015	1	IEL/APL/UPL/205 (1-Pole); IEL (2- and 3-Pole); MIL-M-55629/1 & MIL-M-55629/2	CA 1 DA 1	AM-1 AM-12	W91	16F4916	15.13
● CT1020	2	IELH/APL/UPL/205 (2-Pole); IEL (4-Pole); MIL-M-55629/3 & MIL-M-55629/4	CA2 DA2	AM-2 AM-33	W92	16F4917	16.73
● CT1050	3	IELH/APL/UPL/205 (3-Pole); IEL (5-Pole); MIL-M-55629/5 & MIL-M-55629/6	CA-3 DA-3	AM-3 AM-333	W93	16F4918	18.48

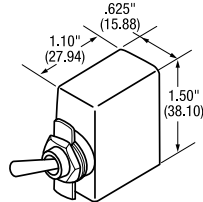
CT113 SERIES BACK-OF-PANEL MOUNTED BOOTS

Mfg. Part No.	No. of Poles	DESIGNED TO FIT CIRCUIT BREAKER SERIES:				Stock No.	Price Each
		AIRPAX	CARLING-SWITCH	HEINE-MANN	POTTER & BRUMFIELD		
● CT113/40	1	IPG/IEG/APG/UPG (1-Pole); IEG (2- and 3-Pole) (Handle Actuator)	BA1	JA-1	W67, W68, W69 (with 1 trigger actuator)	16F4919	12.52
● CT113/42	2	IPGH/IEGH/APGH/UPGH (2-Pole); IEG (4-Pole) (Handle Actuator)	BA2	JA-2	W68, W69 (with 2 trigger actuators)	16F4920	14.53
● CT113/43	3	IPGH/IEGH/APGH/UPGH (3-Pole); IEG (5-Pole) (Handle Actuator)	BA-3	JA-3	W69 (with 3 trigger actuators)	16F4921	15.59

(5164)

AP-MIL SERIES MAGNETIC CIRCUIT BREAKERS

All types listed are sealed, series configuration, medium trip delay and rated for 50VDC/240VAC. MIL-PRF-39019 approved and UL recognized units are also available. For other options and ratings from 0.05A to 20A, go online or call.



AIRPAX

1-POLE

Mfg. Part No.	Current Rating (A)	Stock No.	Price Each	
			1-9	10-24
AP1-1-72-502	5	03C5791	130.70	117.56
AP1-1-72-103	10	03C5783	130.70	117.56
AP1-1-72-153	15	03C5784	130.70	117.56
AP1-1-72-203	20	03C5787	130.70	117.56

2-POLE

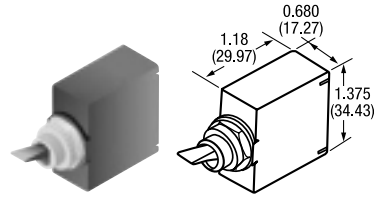
AP12-1-72-502	5	03C6281	237.96	214.03
AP12-1-72-103	10	03C6275	237.96	214.03
AP12-1-72-153	15	03C6276	237.96	214.03
AP12-1-72-203	20	03C6279	237.96	214.03

(72710)

SNAPAK® MAGNETIC CIRCUIT BREAKERS



AIRPAX



SNAPAK® offers power switching and accurate, reliable circuit protection in a single snap-acting magnetic circuit breaker. SNAPAK® combines the functions of three separate components: power switch, fuse, and fuseholder that allows for less assembly, lower inventory, and greater panel density through less clutter. SNAPAK® can be operated at either DC or 50/60Hz. Voltages on units up to 7.5A are up to 50VDC/250VAC. Voltages above 7.5A are up to 32VDC/125VAC. All types listed are series circuit breakers with rocker action. Body color: black; handle color: white. UL recognized, CSA certified, CE compliant, VDE approved. For breakers over 20A, go online or call.

1 POLE

Mfg. Part No.	Current Rating (A)	Handle Style	Stock No.	Price Each			
				1-9	10-24	25-49	50-99
● T11-2-1.00A-01-11AL-V	1	Toggle	03C9231	15.60	14.03	13.29	12.54
● T11-2-2.00A-01-11AL-V	2	Toggle	03C9288	15.60	14.03	13.29	12.54
● T11-2-5.00A-01-11AL-V	5	Toggle	03C9344	15.60	14.03	13.29	12.54
● T11-2-10.0A-01-11AL-V	10	Toggle	03C9250	15.60	14.03	13.29	12.54
● T11-2-20.0A-01-11AL-V	20	Toggle	90C0671	15.60	14.03	13.29	12.54
● R11-2-1.00A-B06CV-V	1	Rocker	34C9844	16.46	14.87	14.00	13.20
● R11-2-2.00A-B06CV-V	2	Rocker	34C9847	16.46	14.87	14.00	13.20
● R11-2-5.00A-B06CV-V	5	Rocker	34C9849	16.46	14.87	14.00	13.20
● R11-2-10.0A-B06CV-V	10	Rocker	34C9845	16.46	14.87	14.00	13.20
● R11-2-20.0A-B06CV-V	20	Rocker	34C9848	16.46	14.87	14.00	13.20
● PR11-2-1.00A-XX-V	1	Push-to-Reset	03C7949	14.56	13.09	12.40	11.71
● PR11-2-2.00A-XX-V	2	Push-to-Reset	03C7955	14.56	13.09	12.40	11.71
● PR11-2-5.00A-XX-V	5	Push-to-Reset	03C7964	14.56	13.09	12.40	11.71
● PR11-2-10.0A-XX-V	10	Push-to-Reset	03C7951	14.56	13.09	12.40	11.71
● PR11-2-20.0A-XX-V	20	Push-to-Reset	03C7958	14.56	13.09	12.40	11.71
● PP11-2-1.00A-XX-V	1	Push/Pull	03C7598	14.56	13.09	12.40	11.71
● PP11-2-2.00A-XX-V	2	Push/Pull	03C7619	14.56	13.09	12.40	11.71
● PP11-2-5.00A-XX-V	5	Push/Pull	03C7635	14.56	13.09	12.40	11.71
● PP11-2-10.0A-XX-V	10	Push/Pull	03C7605	14.56	13.09	12.40	11.71
● PP11-2-20.0A-XX-V	20	Push/Pull	03C7624	14.56	13.09	12.40	11.71

(15827)

IEG SERIES MAGNETIC CIRCUIT BREAKERS

IEG series magnetic circuit breakers provide low-cost power switching, reliable circuit protection, and accurate circuit control. One toggle handle per pole. AC units are 250VAC. DC units are rated up to 80VDC. Available in both DC long delay and 50/60Hz long delay. UL recognized, CSA certified, CE compliant, and VDE approved.



AIRPAX



1-POLE

Mfg. Part No.	Current Rating (A)	No. of Handles	Stock No.	Price Each	
				1-9	10-24
● IEG6-1-72-5.00-01-V	5	1/unit	04C6640	35.54	
● IEG6-1-72-10.0-01-V	10	1/unit	04C6637	35.54	
● IEG6-1-72-15.0-01-V	15	1/unit	90C0653	35.54	
● IEG6-1-72-20.0-01-V	20	1/unit	04C6638	35.54	
● IEG6-1-72-30.0-01-V	30	1/unit	90C0654	35.54	
● IEG6-1-72-50.0-01-V	50	1/unit	90C0655	35.54	

2-POLE

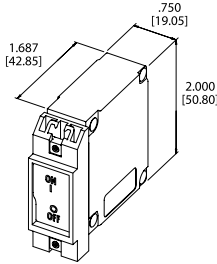
● IEGH66-1-72-5.00-01-V	5	1/Pole	90C0651	83.35	
● IEGH66-1-72-10.0-01-V	10	1/Pole	90C0647	83.35	
● IEGH66-1-72-15.0-01-V	15	1/Pole	90C0648	83.35	
● IEGH66-1-72-20.0-01-V	20	1/Pole	90C0649	83.35	
● IEGH66-1-72-30.0-01-V	30	1/Pole	90C0650	83.35	
● IEGH66-1-72-50.0-01-V	50	1/Pole	90C0652	83.35	

(69201)

MAGNETIC CIRCUIT BREAKERS

IEGBX SERIES
MAGNETIC
CIRCUIT
PROTECTORS**AIRPAX**

IEGBX series magnetic circuit protectors provide low-cost power switching, reliable circuit protection and accurate circuit control in an aesthetically pleasing package. Available in a long delay. Rated up to 250VAC / 80VDC. Contact Newark for other options, ratings.



1-POLE

Mfg. Part No.	Rated Current (A)	Stock No.	Price Each
			1-9
● IEGBX1-1-72-5.00-M3-V	5	46M2088	42.31
● IEGBX1-1-72-10.0-M3-V	10	46M2085	42.31
● IEGBX1-1-72-20.0-M3-V	20	46M2086	42.31
● IEGBX1-1-72-30.0-M3-V	30	46M2087	42.31
● IEGBX1-1-72-50.0-M3-V	50	46M2089	42.31

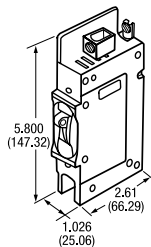
2-POLE

● IEGBX11-1-72-5.00-M3-V	5	46M2093	90.35
● IEGBX11-1-72-10.0-M3-V	10	46M2090	90.35
● IEGBX11-1-72-20.0-M3-V	20	46M2091	90.35
● IEGBX11-1-72-30.0-M3-V	30	46M2092	90.35
● IEGBX11-1-72-50.0-M3-V	50	46M2094	90.35

(94494)

209 SERIES MAGNETIC
CIRCUIT BREAKERS

All circuit breakers listed are series configuration, medium trip delay and rated for 125VDC or 240VAC. Other options, ratings from 0.5 to 100.0 amps, UL recognized units rated up to 600VAC and additional poles are available; go online or call.

**AIRPAX**

1-POLE — RATED 240VAC

Mfg. Part No.	Current Rating (A)	Stock No.	Price Each	
			1-9	10-24
● 209-1-1-62-4-8-10	10	91F9493	55.08	49.60
● 209-1-1-62-4-8-20	20	59K0320	55.08	49.60
● 209-1-1-62-4-8-50	50	59K0324	55.08	49.60
● 209-1-1-62-4-9-60	60	59K0326	64.32	57.92
● 209-1-1-62-4-9-80	80	59K0327	64.32	57.92
● 209-1-1-62-4-9-100	100	59K0325	64.32	57.92

1-POLE — RATED 125VDC

● 209-1-1-52-2-8-10	10	91F9508	55.08	49.60
● 209-1-1-52-2-8-20	20	91F9510	55.08	49.60
● 209-1-1-52-2-8-50	50	91F9516	55.08	49.60
● 209-1-1-52-2-9-80	80	59K0319	64.32	57.92
● 209-1-1-52-2-9-100	100	35C0101	64.32	57.92

2-POLE — RATED 240VAC

● 209-2-1-62-4-8-10	10	91F9531	124.22	111.86
● 209-2-1-62-4-8-20	20	59K0337	124.22	111.86
● 209-2-1-62-4-8-50	50	91F9539	124.22	111.86
● 209-2-1-62-4-9-60	60	59K0340	142.81	128.60
● 209-2-1-62-4-9-80	80	59K0341	142.81	128.60
● 209-2-1-62-4-9-100	100	59K0339	142.81	128.60

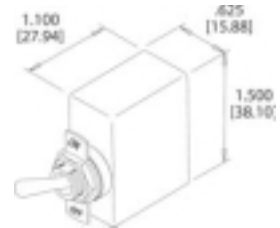
2-POLE — RATED 125VDC

● 209-2-1-52-2-8-10	10	59K0330	124.22	111.86
● 209-2-1-52-2-8-20	20	60K7096	124.22	111.86
● 209-2-1-52-2-8-50	50	59K0332	124.22	111.86
● 209-2-1-52-2-9-60	60	60K7098	142.81	128.60
● 209-2-1-52-2-9-80	80	59K0333	142.81	128.60
● 209-2-1-52-2-9-100	100	60K7097	142.81	128.60

(15830)

MIL-PRF-39019/01 - 06 SERIES
MAGNETIC CIRCUIT PROTECTORS**AIRPAX**

All types listed are sealed, series configuration, medium trip delay, rated for 50VDC/240VAC and MIL-PRF-55629 approved. For other options and ratings from 0.05A to 20A, contact Newark.



1-POLE

Mfg. Part No.	Rated Current (A)	Stock No.	Price Each
			1-9
M39019/01-231	5	03C6764	162.01
M39019/01-249	10	93B0393	162.01
M39019/01-255	15	03C6796	162.01

2-POLE

M39019/03-222	2.5	03C6957	291.35
M39019/03-231	5	03C6965	291.35
M39019/03-249	10	03C6983	291.35
M39019/03-255	15	96B1900	291.35
M39019/03-258	20	03C6992	291.35

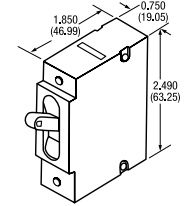
3-POLE

M39019/05-222	2.5	99C1001	401.50
M39019/05-231	5	03C7130	401.50
M39019/05-249	10	03C7144	401.50
M39019/05-255	15	03C7149	401.50
M39019/05-258	20	03C7152	401.50

(94488)

UPL SERIES MAGNETIC
CIRCUIT BREAKERS**AIRPAX**

All types are DC, 50/60Hz medium delay and are rated: 65VDC/250VDC. All types below are an internal series configuration. 0.05 to 100A (up to 9 poles available). MIL-PRF-55629 also available; go online or call. UL recognized, CSA certified.



1 POLE

Mfg. Part No.	Current Rating (A)	Stock No.	Price Each	
			1-9	10-24
● UPL1-1-72-502	5	91F9467	53.87	48.51
● UPL1-1-72-103	10	91F9468	53.87	48.51
● UPL1-1-72-303	30	91F9472	53.87	48.51
● UPL1-1-72-403	40	91F9473	53.87	48.51
● UPL1-1-72-503	50	91F9474	53.87	48.51

2 POLE

● UPL11-1-72-103	10	91F9477	141.51	127.43
● UPL11-1-72-203	20	91F9479	141.51	127.43
● UPL11-1-72-303	30	91F9481	141.51	127.43
● UPL11-1-72-503	50	91F9483	141.51	127.43

(69148)

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(94660)

CIRCUIT PROTECTION

● Indicates RoHS Compliant

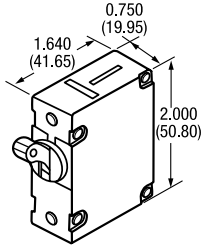
MAGNETIC CIRCUIT BREAKERS • HYDRAULIC/MAGNETIC CIRCUIT BREAKERS

UPG SERIES MAGNETIC CIRCUIT BREAKERS



AIRPAX

All types listed are series configuration, medium trip delay and rated for 65VDC/250VAC. Go online or call for other options, ratings from 0.5 to 50.0 amps and additional poles. MIL-PRF-55629 approvals are also available.



1 POLE

Mfg. Part No.	No. of Handles	Current Rating (A)	Stock No.	Price Each	
				1-9	10-24
● UPG6-1-72-502-01	1/Unit	5	91F9486	41.21	37.11
● UPG6-1-72-103-01	1/Unit	10	91F9487	41.21	37.11
● UPG6-1-72-203-01	1/Unit	20	91F9489	41.21	37.11
● UPG6-1-72-253-01	1/Unit	25	91F9490	41.21	37.11
● UPG6-1-72-303-01	1/Unit	30	91F9491	41.21	37.11

2 POLE

● UPGH66-1-72-103-01	1/Pole	10	16M2516	98.09	88.33
● UPGH66-1-72-153-01	1/Pole	15	03C9916	98.09	88.33
● UPGH66-1-72-253-01	1/Pole	25	35C0039	98.09	88.33

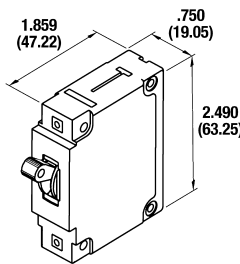
(69149)

IEL SERIES MAGNETIC CIRCUIT BREAKERS



AIRPAX

IEL series magnetic circuit breakers provide low-cost power switching, reliable circuit protection, and accurate circuit control. Circuit breakers listed below have one toggle handle per unit or pole. All units feature stud terminals and are rated DC/60Hz long delay. Other options and ratings from 0.05 to 100A are available; go online or call. UL recognized, CSA certified, CE compliant, VDE approved.



1-POLE

Mfg. Part No.	Rated Amps	No. of Handles	Stock No.	Price Each	
				1-9	10-24
● IELK1-1-72-5.00-01-V	5	1 per Unit	90C0668	47.25	42.50
● IELK1-1-72-10.0-01-V	10	1 per Unit	60K5996	47.25	42.50
● IELK1-1-72-15.0-01-V	15	1 per Unit	59K0207	47.25	42.50
● IELK1-1-72-20.0-01-V	20	1 per Unit	59K0208	47.25	42.50
● IELK1-1-72-30.0-01-V	30	1 per Unit	90C0667	47.25	42.50
● IELK1-1-72-50.0-01-V	50	1 per Unit	59K0209	47.25	42.50
● IELK1-1-72-100-01-V	100	1 per Unit	46M2111	47.25	42.50

2-POLE

● IELHK11-1-72-5.00-01-V	5	1per Pole	59K0201	120.68	108.55
● IELHK11-1-72-10.0-01-V	10	1per Pole	59K0199	120.68	108.55
● IELHK11-1-72-15.0-01-V	15	1per Pole	90C0658	120.68	108.55
● IELHK11-1-72-20.0-01-V	20	1per Pole	90C0659	120.68	108.55
● IELHK11-1-72-30.0-01-V	30	1per Pole	59K0200	120.68	108.55
● IELHK11-1-72-50.0-01-V	50	1 per Pole	59K0202	120.68	108.55
● IELHK11-1-72-100-01-V	100	1 per Pole	46M2110	120.68	108.55

(69198)

1U SERIES SLIMLINE HYDRAULIC MAGNETIC CIRCUIT BREAKERS



EATON

- Patented snap-action technology for improved performance and reliability
- Designed for 1U height rack-mount applications
- Ambient compensating trip unit from -40°C to +80°C

Slimline series 1U hydraulic magnetic circuit breakers increase power density without sacrificing performance. Offers the precision performance of full-size hydraulic magnetic breaker in a miniaturized package. Designed specifically for rack mount applications. Reduced height is ideal for tight spaces and the protection of the latest 1U devices. Standard delay, rated 80VDC/240VAC. Panel mount, bullet terminals. Auxiliary switch with 1NO contact. All configurations are UL 489 listed for branch circuit protection and conform to IEC standards. Other mounting and ratings from 1 to 100A available; go online or call.



➔ CONTINUED ➔

1U SERIES SLIMLINE HYDRAULIC MAGNETIC CIRCUIT BREAKERS (CONT.)

Mfg. Part No.	Current Rating (A)	Stock No.	Price Each			
			Each	2-4	5-9	10-14
● SL1005C2BTA1	5	77K2241	130.65	128.70	115.70	109.85
● SL1010C2BTA1	10	77K2268	130.65	128.70	115.70	109.85
● SL1015C2BTA1	15	77K2295	130.65	128.70	115.70	109.85
● SL1020C2BTA1	20	77K2322	130.65	128.70	115.70	109.85
● SL1025C2BTA1	25	77K2349	130.65	128.70	115.70	109.85
● SL1030C2BTA1	30	77K2376	130.65	128.70	115.70	109.85
● SL1035C2BTA1	35	77K2403	130.65	128.70	115.70	109.85
● SL1040C2BTA2	40	77K2431	130.65	128.70	115.70	109.85
● SL1045C2BTA1	45	77K2457	130.65	128.70	115.70	109.85
● SL1050C2BTA1	50	77K2484	130.65	128.70	115.70	109.85
● SL1060C2BTA1	60	77K2511	130.65	128.70	115.70	109.85

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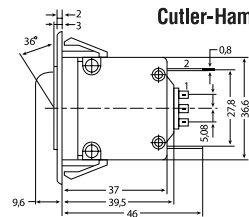
PROPAK SERIES HYDRAULIC-MAGNETIC TRIP-FREE CIRCUIT BREAKERS



EATON

Cutler-Hammer

Available in 1- or 2-pole models and designed for space-constrained applications requiring protection up to 20A. Rocker version offers snap-in mounting, as well as unmistakable visual indication of the switch position. Completely balanced armature prevents switching off during severe shock and vibration conditions. UL recognized, CSA certified, VDE approved.



SINGLE-POLE

Mfg. Part No.	Amps	Stock No.	Price Each		
			Each	2-4	5-9
● PAB1-Y2-1	5	32C0287	28.62	28.15	25.36
● PAB1-Y2-2	10	32C0288	28.62	28.15	25.36
● PAB1-Y2-3	15	32C0289	28.62	28.15	25.36
● PAB1-Y2-5	25	32C0291	30.57	30.07	27.09

DOUBLE-POLE

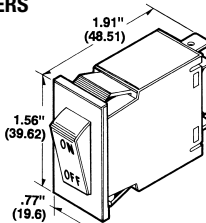
● PAB2-Y3-1	10	32C0292	57.45	56.51	50.91
● PAB2-Y3-3	20	32C0294	57.45	56.51	50.91
● PAB2-Y3-4	25	32C0295	61.35	60.35	54.37

(69143)

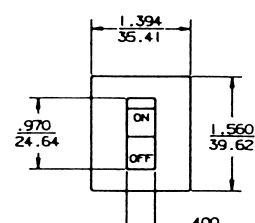
M SERIES CIRCUIT BREAKERS



Carling Technologies
Innovative Designs. Powerful Solutions.



Single Pole



Double Pole

M series miniature hydraulic/magnetic circuit breakers are designed for demanding applications where space, aesthetics and snap-in front panel mounting are important. UL 1077, CSA 22.2, VDE up to 15 amps, FLA ratings up to 15 amp 65VDC, 250VAC, series trip circuit, trip free mechanism and wiping contacts, lightweight, compact design, complies with IEC spacing. All units are supplied with all purpose, AC/DC medium delay curves rated up to 65VDC/277VAC. Termination is Push-On 0.250 Tab (Q.C.). For additional part numbers and construction options; go online or call.

SINGLE POLE FLAT ROCKER, NON-ILLUMINATED

Mfg. Part No.	Current Rating (A)	Stock No.	Price Each		
			1-24	25-49	50-99
● MB1B-344501-A27BC	5	80K9306	20.28	18.68	17.66
● MB1B346101A27BC	10	76K1046	20.28	18.68	17.66
● MB1B346251A27BC	25	76K1049	17.04	15.69	14.83
● MB1B346151A27BC	15	76K1047	20.28	18.68	17.66
● MB1B346201A27BC	20	76K1048	20.28	18.68	17.66

TWO POLE, FLAT ROCKER NON-ILLUMINATED

● MB2B346151A27BC	15	81K2254	43.57	40.12	37.93
● MB2B346251A27BC	25	76K1051	43.57	40.12	37.93

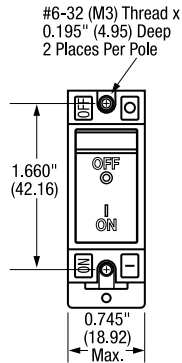
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HYDRAULIC/MAGNETIC CIRCUIT BREAKERS

AC SERIES VISI-ROCKER CIRCUIT BREAKERS



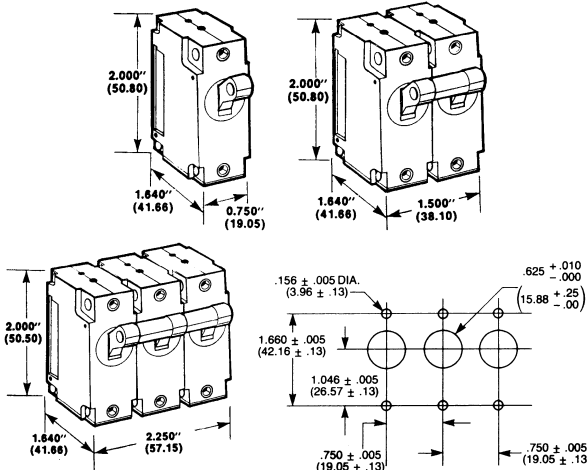
AC series hydraulic magnetic circuit breakers are compact and temperature-stable for precision operations requiring general-purpose as well as full-load amp applications. Features molded-in two-color rocker actuator, trip-free mechanism, wiping contacts, and choice of amp ratings, delay curves and terminations. Actuator marking is "Indicator ON" vertical legend. AC1 series has quick-connect terminals. All AC1 series units listed are supplied with all-purpose AC/DC medium delay curves rated up to 80VDC/277VAC. UL recognized 1500 ignition protection, CSA certified and VDE approved (rocker only).



Mfg. Part No.	Current Rating (A)	Stock No.	Price Each	
			1-9	10+
● AC1B034450131D	5	76K1003	18.10	13.86
● AC1B034610131D	10	76K1004	14.29	14.29
● AC1B034620131D	20	76K1006	18.10	13.86

(59881)

MAGNETIC HYDRAULIC CIRCUIT BREAKERS



- Available in 1-, 2-, and 3-pole models
- White toggle activator
- Operating voltage: 277VAC or 65VDC
- Trip-free construction
- Operating temperature: -40°C to +85°C
- 0.032 x 0.250" (0.81x6.35) Quick-connect terminals
- For motor start applications (curve 10)
- UL interrupt capacity in Amps: 3500-5000
- #6-32 mounting screws

UL recognized, CSA certified. VDE approved units are available; order same type number and add "V" to end.

1-POLE

Mfg. Part No.	Operating Voltage (V)	Current Rating (A)	Trip Time 200% of Load	Stock No.	Price Each		
					1-14	15-24	25-49
● W67A2T521*	65	1	2.2-20 sec	20M7054	26.94	25.07	23.51
● W67-X2Q52-5	65	5	2.2-20 sec	77B4553	18.88	17.57	16.48
● W67-X2Q50-5	65	5	30 msec max	17M3364	18.88	17.57	16.48
● W67-X2Q50-10	65	10	30 msec max	19M4743	18.88	17.57	16.48
● W67-X2Q52-10	65	10	2.2-20 sec	17M3365	18.88	17.57	16.48
● W67-X2Q52-15	65	15	2.2-20 sec	17M3366	18.88	17.57	16.48
● W67-X2Q52-20	65	20	2.2-20 sec	17M3367	18.88	17.57	16.48
● W67-X2Q52-30	65	30	2.2-20 sec	93F3140	18.88	17.57	16.48
● W67-X2Q13-1	277	1	1.5-15 sec	57F248	18.88	17.57	16.48
● W67-X2Q12-1	277	1	2.2-20 sec	17M3359	18.88	17.57	16.48
● W67-X2Q12-2	277	2	2.2-20 sec	20M7053	18.88	17.57	16.48
● W67-X2Q13-2	277	2	1.5-15 sec	17M3361	18.88	17.57	16.48
● W67-X2Q12-3	277	3	2.2-20 sec	56F807	18.88	17.57	16.48
● W67-X2Q13-3	277	3	1.5-15 sec	57F250	18.88	17.57	16.48
● W67-X2Q12-5	277	5	2.2-20 sec	56F809	18.88	17.57	16.48
● W67-A2Q12-5*	277	5	2.2-20 sec	20M7052	26.94	25.07	23.51

▶ CONTINUED ▶

MAGNETIC HYDRAULIC CIRCUIT BREAKERS (CONT.)

Mfg. Part No.	Operating Voltage (V)	Current Rating (A)	Trip Time 200% of Load	Stock No.	Price Each		
					1-14	15-24	25-49
● W67-X2Q12-7	277	7	2.2-20 sec	18M9761	18.88	17.57	16.48
● W67-X2Q12-10	277	10	2.2-20 sec	56F880	18.88	17.57	16.48
● W67-X2Q13-10	277	10	1.5-15 sec	57F254	18.88	17.57	16.48
● W67-A2Q12-10	277	10	2.2-20 sec	20M7051	26.94	25.07	23.51
● W67-X2Q110-15	277	15	9-100 sec	50F9221	18.88	17.57	16.48
● W67-X2Q12-15	277	15	2.2-20 sec	19M4742	18.88	17.57	16.48
● W67-X2Q13-15	277	15	1.5-15 sec	17M3360	18.88	17.57	16.48
● W67-X2Q110-20	277	20	9-100 sec	17M3358	18.88	17.57	16.48
● W67-X2Q13-20	277	20	1.5-15 sec	17M3362	18.88	17.57	16.48
● W67-X2Q12-20	277	20	2.2-20 sec	56F882	18.88	17.57	16.48
● W67-X2Q13-25	277	25	1.5-15 sec	18M9762	18.88	17.57	16.48
● W67-X2Q12-30	277	30	2.2-20 sec	18M9760	18.88	17.57	16.48
● W67-X2Q13-30	277	30	1.5-15 sec	17M3363	18.88	17.57	16.48

2-POLE

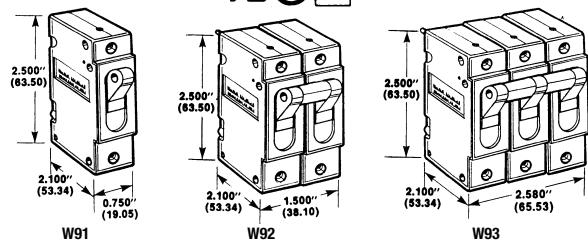
● W68-X2Q12-3	277	3	2.2-20 sec	56F888	43.79	40.75	38.22
● W68-X2Q12-5	277	5	2.2-20 sec	56F890	43.79	40.75	38.22
● W68-X2Q12-7	277	7	2.2-20 sec	17M3369	43.79	40.75	38.22
● W68-X2Q12-10	277	10	2.2-20 sec	18M9763	43.79	40.75	38.22
● W68-X2Q110-10	277	10	2.2-20 sec	90F1232	43.79	40.75	38.22
● W68-X2Q12-15	277	15	2.2-20 sec	20M7055	43.79	40.75	38.22
● W68-X2Q12-20	277	20	2.2-20 sec	18M9764	43.79	40.75	38.22
● W68-X2Q110-20	277	20	2.2-20 sec	90F1233	43.79	40.75	38.22
● W68-X2Q12-25	277	25	2.2-20 sec	56F895	43.79	40.75	38.22
● W68-X2Q12-30	277	30	2.2-20 sec	56F896	43.79	40.75	38.22

3-POLE

● W69-X2Q12-5	277	5	2.2-20 sec	56F993	59.50	55.37	51.93
● W69-X2Q12-10	277	10	2.2-20 sec	17M3372	59.50	55.37	51.93
● W69-X2Q12-15	277	15	2.2-20 sec	17M3373	59.50	55.37	51.93
● W69-X2Q12-20	277	20	2.2-20 sec	56F997	59.50	55.37	51.93
● W69-X2Q110-20	277	20	9-100 sec	17M3370	59.50	55.37	51.93
● W69-X2Q12-25	277	25	2.2-20 sec	17M3374	59.50	55.37	51.93
● W69-X2Q12-30	277	30	2.2-20 sec	56F999	59.50	55.37	51.93
● W69-X2Q110-30	277	30	9-100 sec	17M3371	59.50	55.37	51.93

* With auxiliary switch (.093" quick-connect) (9460)

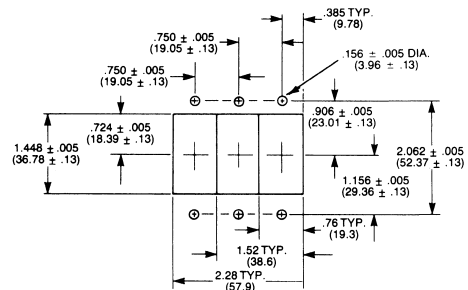
W91, W92 AND W93 SERIES STANDARD MAGNETIC HYDRAULIC CIRCUIT BREAKERS



W91

W92

W93



W9 series circuit breakers are available in 1-, 2-, and 3-pole models with ratings to 50A. Prefix W91 in mfg. part no. = 1-pole; W92 = 2-pole; W93 = 3-pole. Operating voltage: 277VAC or 65VDC. All units utilize a trip free construction. Operating temperature: -40°C to +85°C. W9 series terminates in #10-32 studs. Mount with #6-32 screws and feature a time delay curve tailored for motor start applications (curve 10). UL interrupt capacity in amps: 3500-5000. UL recognized, CSA certified. VDE approved units are available; order same mfg. part no. and add "V" to end.

Mfg. Part No.	Current Rating (A)	Trip Time (200% Load) (sec)	Stock No.	Price Each		
				1-14	15-24	25-49
● W91-X112-1	1	2.2-20	17M3375	18.86	17.55	16.46
● W91-X112-2	2	2.2-20	56F763	18.86	17.55	16.46

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HYDRAULIC/MAGNETIC CIRCUIT BREAKERS

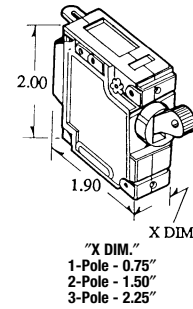
W91, W92 AND W93 SERIES STANDARD MAGNETIC HYDRAULIC CIRCUIT BREAKERS (CONT.)

Mfg. Part No.	Current Rating (A)	Trip Time (200% Load) (sec)	Stock No.	Price Each		
				1-14	15-24	25-49
● W91-X112-5	5	2.2-20	56F766	18.86	17.55	16.46
● W91-X113-5	5	0.15-1.5	17M3380	18.86	17.55	16.46
● W91-X112-7	7	2.2-20	56F767	18.86	17.55	16.46
● W91-X112-10	10	2.2-20	56F768	18.86	17.55	16.46
● W91-X113-10	10	0.15-1.5	57F221	18.86	17.55	16.46
● W91-X152-10	10	0.60-8.0	17M3381	18.86	17.55	16.46
● W91-X110-10	10	9-100	98F1278	18.86	17.55	16.46
● W91-X112-15	15	2.2-20	56F769	18.86	17.55	16.46
● W91-X113-15	15	0.15-1.5	17M3379	18.86	17.55	16.46
● W91-X152-15	15	0.60-8.0	17M3382	18.86	17.55	16.46
● W91-X110-15	15	9-100	50F9229	18.86	17.57	16.48
● W91-X112-20	20	2.2-20	56F770	18.86	17.55	16.46
● W91-X152-20	20	0.60-8.0	17M3383	18.86	17.55	16.46
● W91-X110-20	20	9-100	17M9363	18.86	17.55	16.46
● W91-X112-25	25	2.2-20	17M3376	18.86	17.55	16.46
● W91-X112-30	30	2.2-20	17M3377	18.86	17.55	16.46
● W91-X152-30	30	0.60-8.0	17M3384	18.86	17.55	16.46
● W91-X152-40	40	0.60-8.0	13F3625	18.86	17.55	16.46
● W91-X112-40	40	2.2-20	56F774	18.86	17.55	16.46
● W91-X112-50	50	2.2-20	17M3378	18.86	17.55	16.46
● W91-X152-50	50	0.60-8.0	13F3626	18.86	17.55	16.46
● W92-X112-1	1	2.2-20	17M3386	43.77	40.74	38.21
● W92-X112-2	2	2.2-20	17M3388	43.77	40.74	38.21
● W92-X112-3	3	2.2-20	17M3391	43.77	40.74	38.21
● W92-X112-5	5	2.2-20	17M3393	43.77	40.74	38.21
● W92-X112-7	7	2.2-20	56F795	43.77	40.74	38.21
● W92-X112-10	10	2.2-20	17M3387	43.77	40.74	38.21
● W92-X112-15	15	2.2-20	56F797	43.77	40.74	38.21
● W92-X112-20	20	2.2-20	17M3389	43.77	40.74	38.21
● W92-X112-25	25	2.2-20	17M3390	43.77	40.74	38.21
● W92-X110-30	30	0.15-1.5	17M3385	43.77	40.74	38.21
● W92-X112-30	30	2.2-20	17M3392	43.77	40.74	38.21
● W92-X112-40	40	2.2-20	56F812	43.77	40.74	38.21
● W92-X112-50	50	2.2-20	56F813	43.77	40.74	38.21
● W92-X113-15	15	0.15-1.5	17M3394	43.77	40.74	38.21
● W92-X113-30	30	0.15-1.5	57F239	43.77	40.74	38.21
● W92-X110-20	20	0.15-1.5	90F1226	43.77	40.74	38.21
● W93-X112-5	5	2.2-20	56F832	80.64	75.05	70.39
● W93-X112-10	10	2.2-20	17M3397	80.64	75.05	70.39
● W93-X112-15	15	2.2-20	17M3398	80.64	75.05	70.39
● W93-X112-20	20	2.2-20	56F836	80.64	75.05	70.39
● W93-X112-25	25	2.2-20	17M3399	80.64	75.05	70.39
● W93-X112-30	30	2.2-20	56F838	80.64	75.05	70.39
● W93-X112-40	40	2.2-20	56F840	80.64	75.05	70.39
● W93-X112-50	50	2.2-20	17M3400	80.64	75.05	70.39
● W93-X1110-20	20	9-100	17M3395	80.64	75.05	70.39
● W93-X1110-30	30	9-100	17M3396	80.64	75.05	70.39

(16427)

JA/S SERIES HYDRAULIC-MAGNETIC CIRCUIT BREAKERS

JA/S series circuit breakers are available in 1-, 2- and 3-pole models. Breaker terminals are 0.32" x 0.250" push-on type. Mounting with #6-32 screws. Units with D3 in mfg. part no. are rated AC/DC and are suitable for 250V, 50/60Hz and 65VDC. Breakers with A8 in mfg. part no. are rated at 250V, 50/60Hz and provide high inrush withstanding for momentary initial surges. Time Delay Curve 10 recommended for motor start applications. Units are UL recognized and CSA certified. Operating temperature range: -40° to +85°C. Other ampere ratings available; go online or call.



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Cutler-Hammer

RoHS Compliant Available



JA1S SERIES -- 1-POLE

Mfg. Part No.	Current Rating (A)	Trip Time @ 200% (sec.)	Stock No.	Price Each		
				Each	2-9	10-24
● JA1SD3A000102E	1	1.7-18	10M5221	86.32	85.08	77.61
● JA1SD3A000202E	2		10M5222	25.94	25.32	24.90
● JA1SD3-A-0005-02E	5		10M5217	25.94	25.32	24.90
● JA1SD3-A-0010-02E	10		10M5218	13.50	13.18	12.96
● JA1SD3-A-0015-02E	15		10M5219	13.50	13.18	12.96
● JA1SD3-A-0020-02E	20		10M5220	25.94	25.32	24.90
● JA1SD3A003002E	30		10M5223	13.50	13.18	12.96
JA1SA8A001510E	15	10-120	87F1916	29.23	28.53	28.06

JA2S SERIES -- 2-POLE

Mfg. Part No.	Current Rating (A)	Trip Time @ 200% (sec.)	Stock No.	Price Each		
				Each	2-9	10-24
JA2SD3A000503E	5	0.15-1.9	87F1923	37.88	36.97	36.36
● JA2SD3A002003E	20		10M5229	37.88	36.97	36.36
● JA2SD3A001002E	10	1.7-18	10M5227	120.64	118.90	108.46
● JA2S-0000068	15	10-120	10M5224	77.52	75.66	74.42
● JA2SA8-A-0020-10E	20	10-120	10M5225	78.13	76.25	75.00

JA3S SERIES -- 3-POLE

Mfg. Part No.	Current Rating (A)	Trip Time @ 200% (sec.)	Stock No.	Each	2-9	10-24
JA3SD3A003002E	30	1.7-18	87F1927	62.13	60.64	59.64

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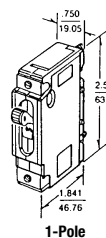
AM/R SERIES HYDRAULIC-MAGNETIC CIRCUIT BREAKERS



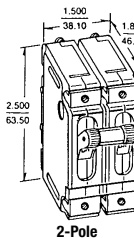
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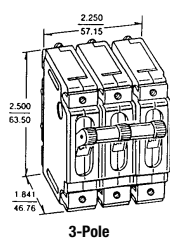
Cutler-Hammer



1-Pole



2-Pole



3-Pole

- Lightweight Circuit Breakers
- Available In 1-, 2-, 3- and 4-Pole Models
- Operating Temperature Range: -40°C to +85°C
- D3 in Type Number Are Rated DC and Are Suitable for 50/60Hz Only
- A8 in Type Number Are Rated at 250V, 50/60Hz and Provides High Inrush Withstanding For Momentary Initial Surges
- Time-Delay Curve 10 Recommended For Motor Start Applications

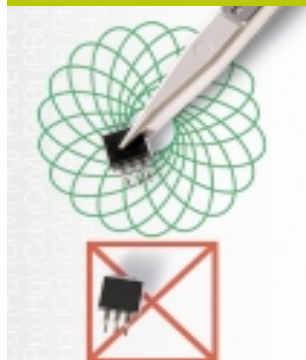
Features knurled handle for positive grip. Electrical ratings: UL 489 listed from 0.1 to 100 amperes at 80VDC with 10,000 ampere interrupting capability; 0.1 to 20 amperes at 120VAC with 10,000 ampere interrupting capability; 0.1 to 50 amperes at 120/240VAC with 5,000 ampere interrupting capability. Units are available in 10-32 1/4-20 and 6mm metric connecting terminal studs, as well as 10-32 screws and banana mate terminals. Other ampere ratings available; go online or call.

AM/R SERIES 1-POLE CIRCUIT BREAKERS

Mfg. Part No.	Current Rating (A)	Trip Time @ 200% (sec.)	Stock No.	Price Each		
				1-4	5-14	15-24
AM1RD3AC07DA52	5	1.7-18	24C8497	22.38	21.78	20.59
● AM1RD3AC07DA102	10		10M5116	46.59	45.68	41.14
● AM1RD3AC07DA152	15		10M5117	46.60	45.69	41.15
● AM1R-D3-AC07D-A-20-2	20		10M5113	22.38	21.78	20.59
● AM1RD3AC07DA252	25		10M5119	22.38	21.78	20.59
AM1RD3AC07DA153	15	0.15-1.9	25C5514	22.38	21.78	20.59
AM1R-0000395	20		24C9646	52.32	50.93	48.15
● AM1RD3AC07DA303	30		10M5120	49.82	48.50	45.85
● AM1RA8AC07DA154	15	10-120	27C0900	24.54	23.89	22.58
● AM1RA8AC07DA204	20		10M5115	54.99	53.53	50.61

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HYDRAULIC/MAGNETIC CIRCUIT BREAKERS • THERMAL CIRCUIT BREAKERS

AM/R SERIES HYDRAULIC-MAGNETIC CIRCUIT BREAKERS (CONT.)

AM/R SERIES 2-POLE CIRCUIT BREAKERS

Mfg. Part No.	Current Rating (A)	Trip Time @ 200% (sec.)	Stock No.	Price Each		
				1-4	5-14	15-24
● AM2RD3LC07DA102	10	1.7-18	27C0906	61.76	60.12	56.83
AM2RD3LC07DA152	15		27C0908	127.84	124.44	117.64
● AM2RD3LC07DA202	20		10M5123	61.76	60.12	56.83
● AM2RD3LC07DA302	30		10M5125	127.84	124.44	117.64
● AM2RD3LC07DA502	50	0.15-1.9	10M5126	148.63	145.73	131.23
● AM2RD3LC07DA103	10		27C0907	118.16	115.02	108.73
AM2RD3LC07DA203	20		27C0910	127.84	124.44	117.64
● AM2RD3LC07DA303	30		27C0911	61.76	60.12	56.83

AM/R SERIES 3-POLE CIRCUIT BREAKERS

Mfg. Part No.	Current Rating (A)	Trip Time @ 200% (sec.)	Stock No.	Price Each		
				1-4	5-14	15-24
AM3RD3LC07DA102	10	1.7-18	27C0913	72.25	70.33	66.49
● AM3RD3LC07DA202	20		10M5129	103.22	100.47	94.98
● AM3R-0000194	30		10M5127	233.31	227.11	214.70
● AM3RD3LC07DA502	50		10M5130	115.85	112.77	106.61

(2310)

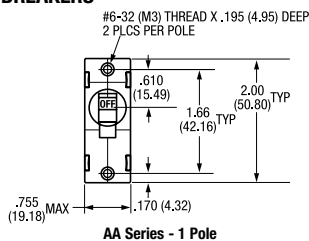
A, B AND C SERIES CIRCUIT BREAKERS



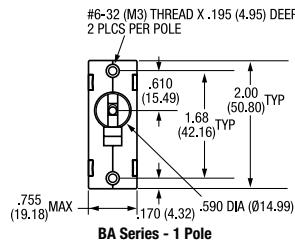
RoHS Compliant Available



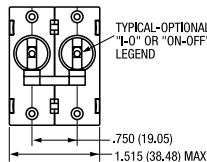
Innovative Designs. Powerful Solutions.



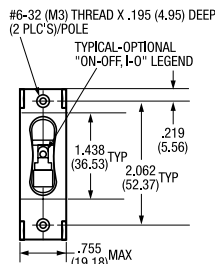
AA Series - 1 Pole



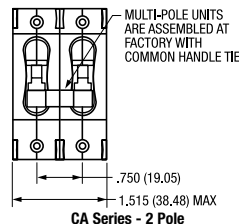
BA Series - 1 Pole



BA Series - 2 Pole



CA Series - 1 Pole



CA Series - 2 Pole

The B series and C series hydraulic/magnetic circuit breakers have UL 1500 ignition protection, front panel snap-in, series trip circuit, trip free mechanism, wiping contacts and have been UL, CSA and VDE approved. The A series has 8-32 (bus type) screw termination. B series has 0.250 quick connect termination while the C series has 10-32 stud terminations, dual on-off/I-O markings on the black actuators. All units are supplied with all-purpose, AC/DC medium delay curves rated up to 80VDC/277VAC.

AA1 SERIES 1-POLE

Mfg. Part No.	Current Rating (A)	Stock No.	Price Each		
			1-9	10-24	25-49
● AA1-B0-34-475-3D1-C	7.5	32C5858	29.29	22.42	15.71
● AA1-B0-34-615-3D1-C	15	32C5860	29.29	22.42	15.71
● AA1-B0-34-630-3D1-C	30	76K1002	29.29	22.42	15.71

BA1-SERIES 1-POLE

Mfg. Part No.	Current Rating (A)	Stock No.	Price Each		
			1-9	10-24	25-49
● BA1-B034610121D	10	81K0101	22.99	17.60	12.33
● BA1-B034615121D	15	76K1010	22.99	17.60	12.33

BA2-SERIES 2-POLE

Mfg. Part No.	Current Rating (A)	Stock No.	Price Each		
			1-9	10-24	25-49
● BA2-B034610121D	10	76K2878	58.70	44.93	31.48
● BA2-B034615121D	15	76K1014	69.89	53.49	37.48

CA1-SERIES 1-POLE

Mfg. Part No.	Current Rating (A)	Stock No.	Price Each		
			1-9	10-24	25-49
● CA1B034615121D	15	76K1017	28.76	22.01	15.43
● CA1B034620121D	20	76K1018	28.76	22.01	15.43
● CA1B034630121D	30	76K1019	28.76	22.01	15.43

CA2-SERIES 2-POLE

Mfg. Part No.	Current Rating (A)	Stock No.	Price Each		
			1-9	10-24	25-49
● CA2B034610121D	10	76K1020	78.81	60.32	42.27
● CA2B034615121D	15	50F7244	93.84	71.82	50.33

➤ CONTINUED ➤

A, B AND C SERIES CIRCUIT BREAKERS (CONT.)

CA2-SERIES 2-POLE

Mfg. Part No.	Current Rating (A)	Stock No.	Price Each		
			1-9	10-24	25-49
● CA2B034620121D	20	76K3880	78.81	60.32	42.27
● CA2B034630121D	30	76K1021	78.81	60.32	42.27

(2406)

A AND C SERIES SEALED MOUNT STEEL TOGGLE CIRCUIT BREAKERS



Innovative Designs. Powerful Solutions.



A Series



C Series

A and C Series circuit breakers are designed for use in rugged environments where dust, water spray and splash may be present. The design features a steel bat style actuator/bushing which is mechanically fastened to a steel plate. This actuator/mounting bracket assembly is riveted to the front of the breaker providing a solid and operational interface for the end user. A silicon rubber seal surrounds the actuator effectively preventing water and dust ingress. When mounted to panel, the bracket is sealed by a captive O-ring located at the base of the bushing. The breaker features a vented case for arc egress, so is not designed for use where a totally sealed breaker is required, but it is effective as a sealed breaker in a panel.

A SERIES TERMINATION: .250 QUICK CONNECT

Mfg. Part No.	Amps	Stock No.	Price Each		
			1-9	10-24	25-49
● AM1-B0-34-450-101-C	5	83K9733	46.28	39.78	34.32
● AM1-B0-34-610-101-C	10	83K9734	46.28	39.78	34.32
● AM1-B0-34-615-101-C	15	83K9735	46.28	39.78	34.32
● AM1-B0-34-620-101-C	20	83K9736	46.28	39.78	34.32
● AM1-B0-34-625-101-C	25	83K9737	46.28	39.78	34.32
● AM1-B0-34-630-101-C	30	83K9738	46.28	39.78	34.32

C SERIES TERMINATION: 10/32 STUD TERMINALS

Mfg. Part No.	Amps	Stock No.	Price Each		
			1-9	10-24	25-49
● CM1-B0-34-450-101-C	5	83K9739	53.88	46.32	39.96
● CM1-B0-34-610-101-C	10	83K9740	53.88	46.32	39.96
● CM1-B0-34-615-101-C	15	83K9741	53.88	46.32	39.96
● CM1-B0-34-620-101-C	20	83K9742	53.88	46.32	39.96
● CM1-B0-34-625-101-C	25	83K9743	53.88	46.32	39.96
● CM1-B0-34-630-101-C	30	83K9744	53.88	46.32	39.96
● CM1-B0-34-640-101-C	40	83K9745	53.88	46.32	39.96
● CM1-B0-34-645-101-C	45	83K9746	53.88	46.32	39.96
● CM1-B0-34-650-101-C	50	83K9747	53.88	46.32	39.96

(88081)

PUSH-TO-RESET ONLY THERMAL CIRCUIT BREAKERS



Tyco Electronics

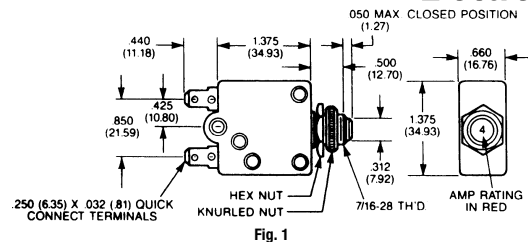


Fig. 1

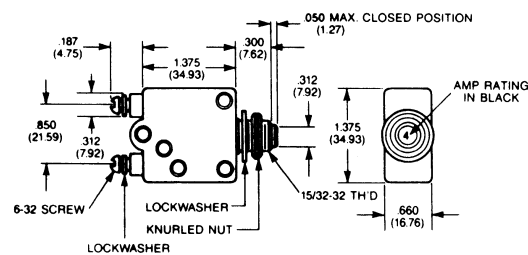


Fig. 2

Single-pole, thermal-type features recessed reset button. Cannot be manually pulled out to disconnect circuit. Reset button extends when overload occurs and breaker opens; red band appears for visible trip indication. Continuously carries 100% rated load. May trip between 101% and 144% of rated load, must trip at 145% at 25°C. Trip times listed

➤ CONTINUED ➤

CIRCUIT PROTECTION

● Indicates RoHS Compliant

THERMAL CIRCUIT BREAKERS

PUSH-TO-RESET ONLY THERMAL CIRCUIT BREAKERS (CONT.)

in table are at 200% rating. Quick-Connect and #6-32 screw terminals are available. Fig. 1 has 0.5" (12.70) mounting bushing with 1/8"-28 silver thread. Recommended cutout is 0.440-0.450" (11.3-11.7) dia. hole. Fig. 2 has 0.300" (7.62) mounting bushing with 1/8"-32 black thread. Recommended cutout is 0.470-0.480" (11.8-11.9) dia. hole. **Mfg. part no. W58-XB6A4A-4** has a .465" (11.81) mounting bushing with 1/8"-24 silver thread. Recommended cutout is .370-.380" (9.5-9.7) dia. hole. UL recognized, CSA certified.

QUICK CONNECT TERMINALS, 10-45 SEC. TRIP TIME—FIG. 1

Mfg. Part No.	Current Rating (A)	Trip Time (sec @ 200%)	Stock No.	Price Each			
				1-24	25-49	50-99	100-249
● W58-XB1A4A-1	1	10-45	56F870	5.14	4.79	4.49	4.22
● W58-XB1A4A-2	2	10-45	56F871	5.14	4.79	4.49	4.22
● W58-XB1A4A-3	3	10-45	56F872	5.14	4.79	4.49	4.22
● W58-XB1A4A-4	4	10-45	56F873	5.14	4.79	4.49	4.22

QUICK-CONNECT TERMINALS, 6-30 SEC. TRIP TIME—FIG. 1

● W58-XB1A4A-5	5	6-30	56F874	3.69	3.43	3.22	3.03
● W58-XB1A4A-6	6	6-30	57F275	3.69	3.43	3.22	3.03
● W58-XB1A4A-7	7	6-30	56F875	3.69	3.43	3.22	3.03
● W58-XB1A4A-8	8	6-30	57F276	3.69	3.43	3.22	3.03
● W58-XB1A4A-10	10	6-30	56F876	3.69	3.43	3.22	3.03
● W58-XB1A4A-12	12	6-30	57F277	3.69	3.43	3.22	3.03
● W58-XB1A4A-15	15	6-30	56F877	3.69	3.43	3.22	3.03
● W58-XB1A4A-20	20	6-30	56F878	3.69	3.43	3.22	3.03
● W58-XB1A4A-25	25	6-30	57F278	3.69	3.43	3.22	3.03
● W58-XB1A4A-30	30	6-30	57F279	3.69	3.43	3.22	3.03
● W58-XB1A4A-3.5	3.5	6-30	57F280	5.14	4.79	4.49	4.22

#6-32 SCREW TERMINALS, 10-45 SEC. TRIP TIME—FIG. 2

● W58-XC4C12A-1	1	10-45	57F281	5.14	4.79	4.49	4.22
● W58-XC4C12A-2	2	10-45	17M3353	5.14	4.79	4.49	4.22
● W58-XC4C12A-3	3	10-45	17M3355	5.14	4.79	4.49	4.22
● W58-XC4C12A-7	7	10-45	17M3357	4.17	3.88	3.64	3.43
● W58-XC4C12A-25	25	10-45	29M9967	4.17	3.88	3.64	3.43

#6-32 SCREW TERMINALS, 6-30 SEC. TRIP TIME—FIG. 2

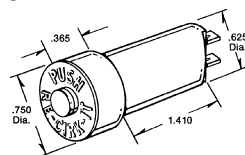
● W58-XC4C12A-5	5	6-30	17M3356	4.17	3.88	3.64	3.43
● W58-XC4C12A-10	10	6-30	29M9966	4.17	3.88	3.64	3.43
● W58-XC4C12A-15	15	6-30	57F292	4.17	3.88	3.64	3.43
● W58-XC4C12A-20	20	6-30	17M3354	4.17	3.88	3.64	3.43
● W58-XC4C12A-30	30	6-30	57F294	4.17	3.88	3.64	3.43

(2395)

KD1 SERIES THERMAL CIRCUIT BREAKERS



Replaces slow-blow glass fuses and fuse holders. Units mount in the same space as a 0.625" (15.88) fuse holder and provide resettable capability after tripping. A trip indicator button provides visual indication of trip condition and can't be manually switched to the OFF position. Uses include sump pumps, industrial power supplies, medical equipment, copiers, and vending machines. Trip time @ 200%: 2.5-24 seconds @ 25°C. **Clip retainer and boot ordered separately below.** UL recognized, CSA certified.



Mfg. Part No.	Current Rating (A)	Stock No.	Price Each		
			Each	2-9	10-24
● KD1-1	1	29F1601	13.09	12.89	9.59
● KD1-2	2	29F1602	7.28	7.17	5.33
● KD1-2.5	2.5	44F914	17.33	17.06	12.69
● KD1-3	3	29F1603	7.28	7.17	5.33
● KD1-4	4	29F1604	7.28	7.17	5.33
● KD1-5	5	29F1605	7.28	7.17	5.33
● KD1-6	6	29F1606	7.28	7.17	5.33
● KD1-7	7	29F1607	7.28	7.17	5.33
● KD1-8	8	29F1608	7.28	7.17	5.33
● KD1-9	9	29F1609	7.28	7.17	5.33
● KD1-10	10	29F1610	7.28	7.17	5.33
● KD1-12	12	81F1731	7.28	7.17	5.33
● KD1-15	15	29F1611	7.28	7.17	5.33

CLIP RETAINER

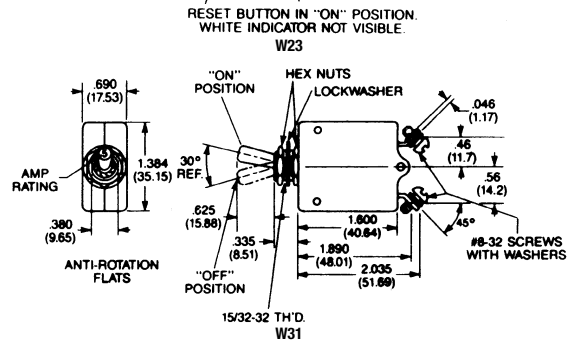
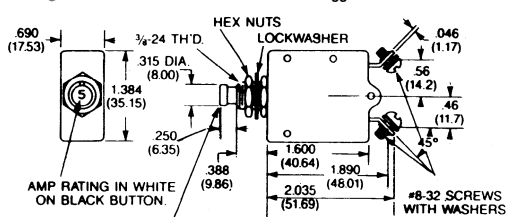
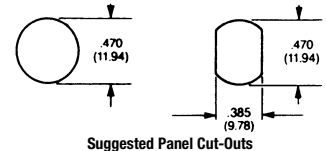
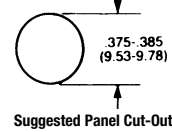
Mfg. Part No.	Description	Stock No.	Price Each		
			Each	2-9	10-24
● 006-10417	Clip Retainer	90F1344	0.23	0.23	0.17

BOOT

Mfg. Part No.	Description	Stock No.	Price Each		
			Each	2-9	10-24
● 1213/44	Clear Boot	29H4846	1.95	1.92	1.78

(2391)

PUSHBUTTON AND TOGGLE-ACTIVATED THERMAL CIRCUIT BREAKERS



W23 and W31 series circuit breakers are single-pole, thermal devices. Both units may also be used as a switch. Each breaker has trip-free feature which allows contacts to open on an overload even with toggle or button held in On position. **W23 and W31 series** will carry 100% of rated load continuously but must trip at 135% of rated load at 25°C within one hour. Both units UL recognized under file E69543, CSA certified under file LR15734. Trip times listed are at 200% rating. **W31 series** units have antirotation flats but also mount in round hole. See suggested panel cut-outs.

PUSHBUTTON, 11-30 SEC. TRIP TIME

Mfg. Part No.	Current Rating (A)	Stock No.	Price Each			
			1-24	25-49	50-99	100-249
● W23-X1A1G-1	1.0	17M3338	28.31	26.34	24.71	23.24
● W23-X1A1G-2	2.0	95F9218	28.31	26.34	24.71	23.24
● W23-X1A1G-3	3.0	70B8785	28.31	26.34	24.71	23.24

PUSHBUTTON, 6-22 SEC. TRIP TIME

● W23-X1A1G-5	5.0	18M9756	18.45	17.17	16.10	15.14
● W23-X1A1G-7.50	7.5	18M9757	18.45	17.17	16.10	15.14
● W23-X1A1G-10	10.0	17M3339	18.45	17.17	16.10	15.14
● W23-X1A1G-15	15.0	44F944	18.45	17.17	16.10	15.14
● W23-X1A1G-20	20.0	44F945	18.45	17.17	16.10	15.14
● W23-X1A1G-25	25.0	44F946	18.45	17.17	16.10	15.14
● W23-X1A1G-30	30.0	18M9753	18.45	17.17	16.10	15.14
● W23-X1A1G-35	35.0	18M9754	18.45	17.17	16.10	15.14
● W23-X1A1G-40	40.0	18M9755	18.45	17.17	16.10	15.14
● W23-X1A1G-50	50.0	17M3340	18.45	17.17	16.10	15.14

TOGGLE-ACTUATED, 11-30 SEC. TRIP TIME

● W31-X2M1G-1	1.0	87F615	33.19	30.88	28.97	27.24
● W31-X2M1G-2	2.0	17M3341	33.19	30.88	28.97	27.24
● W31-X2M1G-3	3.0	17M3345	33.19	30.88	28.97	27.24

TOGGLE-ACTUATED, 6-22 SEC. TRIP TIME

● W31-X2M1G-5	5.0	18M9759	22.94	21.35	20.03	18.83
● W31-X2M1G-7.50	7.5	87F620	22.94	21.35	20.03	18.83
● W31-X2M1G-10	10.0	17M3341	22.94	21.35	20.03	18.83
● W31-X2M1G-15	15.0	17M3342	22.94	21.35	20.03	18.83
● W31-X2M1G-20	20.0	18M9758	22.94	21.35	20.03	18.83
● W31-X2M1G-25	25.0	17M3344	22.94	21.35	20.03	18.83
● W31-X2M1G-30	30.0	17M3346	22.94	21.35	20.03	18.83
● W31-X2M1G-35	35.0	87F612	22.94	21.35	20.03	18.83

► CONTINUED ►

THERMAL CIRCUIT BREAKERS

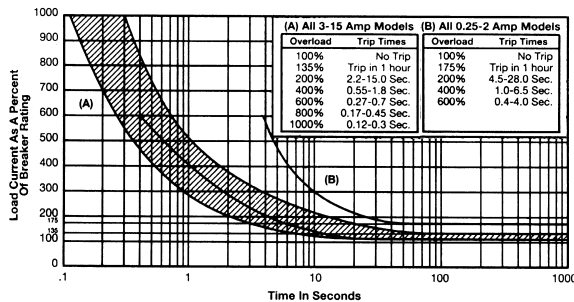
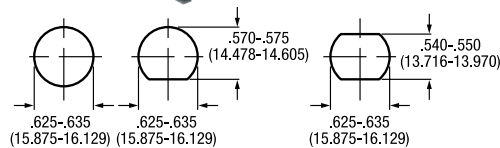
PUSHBUTTON AND TOGGLE-ACTIVATED THERMAL CIRCUIT BREAKERS (CONT.)

TOGGLE-ACTIVATED, 6-22 SEC. TRIP TIME

Mfg. Part No.	Current Rating (A)	Stock No.	Price Each			
			1-24	25-49	50-99	100-249
● W31-X2M1G-40	40.0	17M3347	22.94	21.35	20.03	18.83
● W31-X2M1G-50	50.0	29M9965	22.94	21.35	20.03	18.83

(2394)

FUSEHOLDER TYPE CIRCUIT BREAKERS



- Approved to many international standards
- Replaces slow blow glass cartridge fuse
- Labor-saving snap-in mounting
- Button extends for visual trip indicator
- Pushbutton to reset breaker

SPECIFICATIONS

Calibration	Will continuously carry 100% of rated load. 3-15A models—may trip between 101% and 134%, but must trip at 135% of rating within one hour at +25°C. 0.25-2 amp models—may trip between 101% and 174%, but must trip at 175% of rating within one hour at +25°C.
Dielectric Strength	Over 1,500Vrms
Maximum Operating Voltages	32VDC; 250VAC, 50/60Hz
Interrupt Capacity	1,000A at 250VAC, 50/60Hz and 32VDC in accordance with UL standard 1077.
Resettable Overload Capacity	6 times rated current for 0.25-2A models. 10 times rated current for 3-15A models.
Reset Time	180 seconds max. for 0.25-2A models. 10 to 60 seconds for 3-15A models.
Termination	0.250" (6.35) quick connects. Soldering to terminals is not recommended.
Mounting	Snap into panel from front. See recommended panel cutouts.
Approximate Weight	0.35 oz. (10 g)

The **W28 series** is a single-pole, thermal circuit breaker featuring a reset button which cannot be manually pulled to disconnect the load. On an overload, the reset button opens and a white indicator extends for visual trip indication. Ideal for replacement of slow-blow glass cartridge fuses. Snaps in panels up to 0.062" (1.57mm) thick, and 0.105" (2.667mm) thick. Maximum operating voltage is 250VAC or 32VDC. Trip times shown in table are at 200% of load and +25°C. UL recognized (File E69543), CSA certified (File LR15734), VDE approved, DEMKO approved, SEV approved.

0.250" QUICK CONNECT — MOUNTS IN .032"-.062" THICK PANEL

Mfg. Part No.	Current Rating (A)	Trip Time (sec)	Stock No.	Price Each		
				1-49	50-99	100-249
● W28-XQ1A-0.25	0.25	4.5-28	75F005	3.96	3.80	3.60
● W28-XQ1A-0.50	0.50	4.5-28	75F006	3.96	3.80	3.60
● W28-XQ1A-0.75	0.75	4.5-28	90F1227	3.96	3.80	3.60
● W28-XQ1A-1	1.00	4.5-28	75F007	3.96	3.80	3.60
● W28-XQ1A-2	2.00	4.5-28	75F008	3.96	3.80	3.60
● W28-XQ1A-3	3.00	2.2-15	75F009	2.21	2.12	2.01
● W28-XQ1A-4	4.00	2.2-15	90F1228	2.21	2.12	2.01
● W28-XQ1A-5	5.00	2.2-15	75F010	2.21	2.12	2.01
● W28-XQ1A-6	6.00	2.2-15	90F1229	2.21	2.12	2.01
● W28-XQ1A-7	7.00	2.2-15	75F011	2.21	2.12	2.01
● W28-XQ1A-8	8.00	2.2-15	75F012	2.21	2.12	2.01

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FUSEHOLDER TYPE CIRCUIT BREAKERS (CONT.)

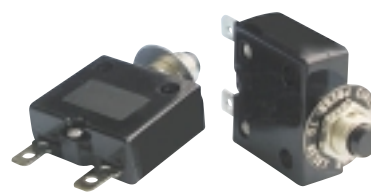
Mfg. Part No.	Current Rating (A)	Trip Time (sec)	Stock No.	Price Each		
				1-49	50-99	100-249
● W28-XQ1A-10	10.00	2.2-15	75F013	2.21	2.12	2.01
● W28-XQ1A-12	12.00	2.2-15	75F014	2.21	2.12	2.01
● W28-XQ1A-15	15.00	2.2-15	75F015	2.21	2.12	2.01
● W28-XQ1A-20	20.00	2.2-15	52F5525	2.21	2.12	2.01

0.250" QUICK CONNECT — MOUNTS IN .075"-.105" THICK PANEL

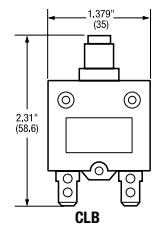
● W28-XT1A-5	5.00	2.2-15	08H7080	2.21	2.12	2.01
● W28-XT1A-10	10.00	2.2-15	66F3424	2.21	2.12	2.01
● W28-XT1A-12	12.00	2.2-15	23C9372	2.21	2.12	2.01
● W28-XT1A-15	15.00	2.2-15	99F6269	2.21	2.12	2.01

* Switchable rocker (2495)

THERMAL CIRCUIT BREAKERS



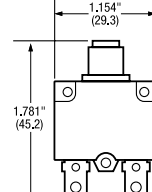
CLB Series



CLB



CMB Series



CMB

- Rated 125-250VAC, 48VDC
- M11 Mounting Hole
- Type C Black Plastic Bushing
- Type 3 Plastic Mounting Nut
- 250 Tab Terminals
- UL Recognized, cUL Recognized, TÜV Approved

CLB SERIES

Mfg. Part No.	Current Rating (A)	Stock No.	Price Each
			1-49
● CLB-053-11A3N-B-A	5	84K1120	5.41
● CLB-073-11A3N-B-A	7	84K1121	4.18
● CLB-103-11A3N-B-A	10	84K1122	3.42
● CLB-203-11A3N-B-A	20	84K1123	3.93
● CLB-253-11A3N-B-A	25	84K1124	4.24
● CLB-303-11A3N-B-A	30	84K1125	4.24

CMB SERIES

● CMB-053-11C3N-B-A	5	01H9766	5.09
● CMB-073-11C3N-B-A	7	84K1126	3.67
● CMB-123-11C3N-B-A	12	84K1127	3.27
● CMB-153-11C3N-B-A	15	85K8031	3.27
● CMB-203-11C3N-B-A	20	84K1128	3.42

(73435)

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engineers.

(94668)

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CIRCUIT PROTECTION

● Indicates RoHS Compliant

THERMAL CIRCUIT BREAKERS

T9 SERIES THERMAL CIRCUIT BREAKERS



- Actuation: manual push/ cycle trip
- Current/Voltage: 4-16A/240VAC; 48VDC
- Short-Circuit Capacity: 8 x I_n
- Mounting: snap-in panel
- Terminals: 6.2 x 0.8mm quick-connect
- Weight: Approximately 9g



UL recognized, CSA certified, Chinese compulsory certification. Other rated currents and accessories available; go online or call Newark.

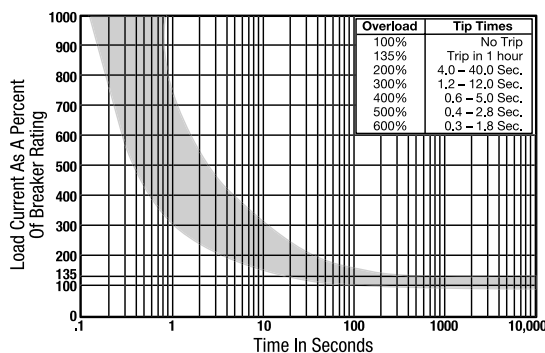
Mfg. Part No.	Poles/Rating	Stock No.	Price Each	
			1-49	50-99
● T9-611P-5A	1-Pole/5A	28K1540	1.55	1.40
● T9-611P-6A	1-Pole/6A	28K1541	1.55	1.40
● T9-611P-8A	1-Pole/8A	28K1542	1.55	1.40
● T9-611P-10A	1-Pole/10A	28K1537	1.55	1.40
● T9-611P-12A	1-Pole/12A	88K1279	1.55	1.40
● T9-611P-16A	1-Pole/16A	28K1539	1.55	1.40

(84591)

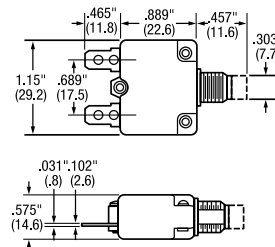
COMPACT, PUSH-TO-RESET ONLY THERMAL CIRCUIT BREAKERS



Time vs. Current Trip Curve @ +25°C



- 4 to 20A ratings
- Cannot be manually tripped
- Button extends for visual trip indication
- Push button to reset breaker
- White button with red rate marking (vertical)
- Quick-connect terminals, .250" (6.35) straight
- Metal-knurled nut/hex nut mounting hardware
- Mounting hardware assembled to bushing
- Maximum operating voltage: 250VAC



Breakers will continuously carry 100% of rated load. May trip between 101% and 134%, but must trip at 135% within one hour at +25°C. Interrupt capacity: 1000A in accordance with UL standard 1077. Dielectric strength: 1500VAC for 60 sec. Resettable overload capacity is ten times rated load. Reset time: 60 seconds. Operating temperature: 0°C to +60°C. Numerous additional mounting and termination options available. Nameplates and mounting hardware also available; go online or call.

Mfg. Part No.	Current Rating (A)	Typical Resistance (Ω)	Stock No.	Price Each		
				1-49	50-99	100-249
● W57-XB7A4A10-5	5	0.050	08H0801	1.39	1.35	1.30
● W57-XB7A4A10-10	10	0.025	08H0798	1.34	1.30	1.26
● W57-XB7A4A10-15	15	0.017	08H0799	1.34	1.30	1.26
● W57-XB7A4A10-20	20	0.012	08H0800	1.68	1.63	1.58

(74452)

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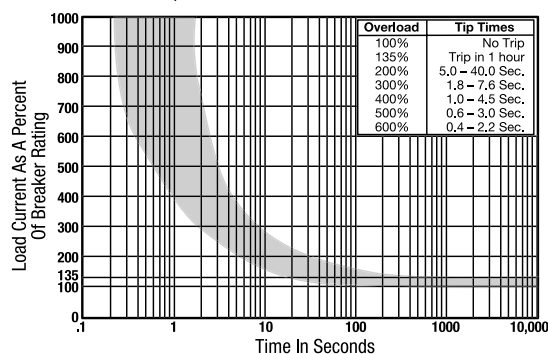
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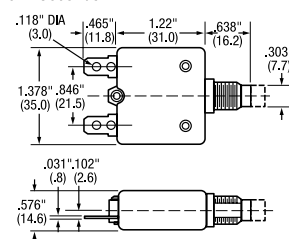
PUSH-TO-RESET ONLY THERMAL CIRCUIT-BREAKERS



Time vs. Current Trip Curve @ +25°C



- New economical design
- 5 to 40A ratings
- Cannot be manually tripped
- Button extends for visual trip indication
- Push button to reset breaker
- White button with red rate marking (vertical)
- Quick-connect terminals, 0.250" (6.35mm) straight
- Metal-knurled nut/hex nut mounting hardware
- Mounting hardware assembled to bushing
- Maximum operating voltage: 250VAC



Breakers will continuously carry 100% of rated load. May trip between 101% and 134%, but must trip at 135% within one hour at +25°C. Interrupt capacity: 1000A in accordance with UL standard 1077. Dielectric strength: 1500VAC for 60 sec. Resettable overload capacity is 10 times rated load. Reset time: 60 seconds. Operating temperature: 0°C to +60°C. Numerous additional mounting and termination options available. Nameplates and mounting hardware also available; go online or call. All breakers except 35A and 40A are UL recognized as supplementary protectors under UL 1077, file E69543, in Canada and the United States.

Mfg. Part No.	Current Rating (A)	Typical Resistance (Ω)	Stock No.	Price Each		
				1-49	50-99	100-249
● W54-XB1A4A10-5	5	0.050	08H0797	2.01	1.95	1.89
● W54-XB1A4A10-10	10	0.025	08H0792	2.01	1.95	1.89
● W54-XB1A4A10-15	15	0.017	08H0793	2.01	1.95	1.89
● W54-XB1A4A10-20	20	0.012	08H0794	2.01	1.95	1.89
● W54-XB1A4A10-25	25	0.010	08H0795	2.24	2.17	2.10
● W54-XB1A4A10-30	30	0.008	08H0796	2.24	2.17	2.10

(74453)

T11 SERIES THERMAL CIRCUIT BREAKERS

- Trip-Free Single-Pole Circuit Breakers
- Actuation: Manual Push/Positive Trip
- Current/Voltage: 0.05-10A/240VAC, 28VDC
- Short-Circuit Capacity: 8 x 1n/60A
- Mounting: Thread Neck
- 6.3 x 0.8mm Quick-Connect Terminals



UL recognized, CSA certified, VDE approved. Protective dust cover also available; go online or call.

8MM LONG THREADED NECK MOUNTING W/HEXAGONAL NUT

Mfg. Part No.	Current Rating (A)	Stock No.	Price Each		
			1-24	25-49	50-99
● T11-311-0.5	0.5	32C2395	5.90	5.47	5.22
● T11-311-1	1	88K2018	5.90	5.47	5.22
● T11-311-1.5	1.5	88K2019	5.90	5.47	5.22
● T11-311-2	2	32C2404	5.90	5.47	5.22
● T11-311-3	3	32C2405	5.90	5.47	5.22
● T11-311-4	4	32C2407	5.90	5.47	5.22
● T11-311-5	5	16F2155	5.90	5.47	5.22
● T11-311-10	10	88K2020	5.90	5.47	5.22

6MM LONG THREADED NECK MOUNTING W/HEXAGONAL NUT

Mfg. Part No.	Current Rating (A)	Stock No.	Price Each		
			1-24	25-49	50-99
● T11-211-1	1	16F2156	5.90	5.47	5.22
● T11-211-1.5	1.5	88K1277	5.90	5.47	5.22
● T11-211-2	2	88K1278	5.90	5.47	5.22
● T11-211-3	3	32C2321	5.88	5.46	5.20
● T11-211-5	5	32C2331	5.88	5.46	5.20
● T11-211-10	10	88K2017	5.90	5.47	5.22

(16831)

THERMAL CIRCUIT BREAKERS

TS-701 SERIES THERMAL CIRCUIT BREAKERS

- Actuation: Manual Push/Cycle Trip
- Current/Voltage: 3-40A/250VAC, 50VDC
- Short-Circuit Capacity: 200A
- Mounting: Thread Neck
- 6.3 x 0.8mm Quick-Connect Terminals
- Weight: Approximately 24 Grams



SCHURTER
ELECTRONIC COMPONENTS



UL recognized, CSA certified. Other ratings available; go online or call.

Mfg. Part No.	Poles/Rating	Stock No.	Price Each	
			1-49	50-99
● TS-701-HT-3	1-Pole/3A	88K1257	4.24	3.77
● TS-701-HT-5	1-Pole/5A	88K1258	4.24	3.77
● TS-701-HT-7	1-Pole/7A	88K1259	3.35	2.97
● TS-701-HT-12	1-Pole/12A	32C2224	2.55	2.26
● TS-701-HT-20	1-Pole/20A	32C2229	2.99	2.66

(69036)

TS-709 SERIES THERMAL CIRCUIT BREAKERS

- Actuation: manual push/cycle trip
- Current/voltage: 3-16A/250VAC; 32VDC
- Short-circuit capacity: 200A
- Mounting: thread neck
- Terminals: 6.3 x 0.8mm quick-connect
- Weight: approximately 15g



SCHURTER
ELECTRONIC COMPONENTS



UL recognized, CSA certified. Other rated currents and accessories also available; go online or call Newark.

Mfg. Part No.	Poles/Rating	Stock No.	Price Each	
			1-49	50-99
● TS-709-5	1-Pole/5A	88K2012	3.31	2.94
● TS-709-8	1-Pole/8A	93K7602	2.31	2.10
● TS-709-12	1-Pole/12A	88K1260	2.12	1.89
● TS-709-15	1-Pole/15A	88K2011	2.09	1.85

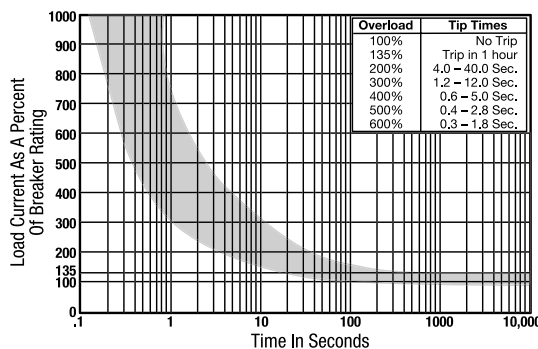
(69037)

ROCKER-ACTUATED THERMAL CIRCUIT BREAKERS

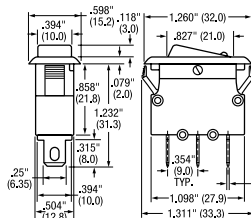


Tyco Electronics

Time vs. Current Trip Curve @ +25°C



- Compact, trip-free, rocker-actuated design
- 5A to 20A ratings
- Provides circuit protection and power switching in a single unit
- Indicator lamp standard on listed items
- Snaps into same cutout as many common power switches
- Quick contact terminals, 0.250" (6.35) straight
- Red translucent rocker
- RESET/OFF marked on bezel



Breakers will continuously carry 100% of rated load. May trip between 101% and 134%, but must trip at 135% within one hour at +25°C. Interrupt capacity: 1000A in accordance with UL standard 1077. Dielectric strength: 1500VAC for 60 sec. Resettable overload capacity is ten times rated load. Reset time: 60 seconds. Operating temperature: 0°C to +60°C. Numerous additional mounting and termination options available; go online or call. UL recognized as supplementary protectors under UL 1077, file E69453, in Canada and the United States.

➤ CONTINUED ➤

ROCKER-ACTUATED THERMAL CIRCUIT BREAKERS (CONT.)

Mfg. Part No.	Max. Operating Voltage (VAC)	Current Rating (A)	Typical Resistance (Ω)	Stock No.	Price Each		
					1-49	50-99	100-249
● W51-A121B1-5	125	5	0.050	08H0787	2.45	2.36	2.28
● W51-A121B1-10	125	10	0.025	08H0784	2.45	2.36	2.28
● W51-A121B1-15	125	15	0.017	08H0785	2.45	2.36	2.28
● W51-A121B1-20	125	20	0.0125	08H0786	2.45	2.36	2.28
● W51-A122B1-5	250	5	0.050	08H0791	2.45	2.36	2.28
● W51-A122B1-10	250	10	0.025	08H0788	2.45	2.36	2.28
● W51-A122B1-15	250	15	0.017	08H0789	2.45	2.36	2.28
● W51-A122B1-20	250	20	0.0125	08H0790	2.45	2.36	2.28

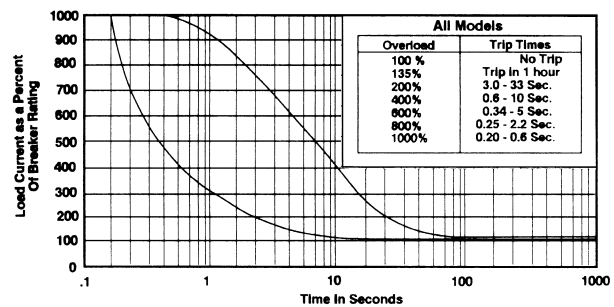
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W33 THERMAL CIRCUIT BREAKERS



Tyco Electronics

TIME VS. CURRENT TRIP VALUES @ 25 C.



- 2 to 20A ratings
- 1- or 2-pole sensing
- Lighted or non-lighted rocker actuator



5

Specification	Description
Calibration	Will continuously carry 100% of rated load. May trip between 101% and 135% of rated load, but must trip at 135% within one hour at +25°C.
Dielectric Strength	Over 2,000Vrms.
Maximum Operating Voltages	50VDC; 250VAC to 400Hz.
Interrupt Capacity	1,000A at 50VDC; 250VAC, 60Hz; 125/250VAC, 400Hz; 1,500A at 125/250VAC, 60Hz.
Resettable Overload Capacity	10 times rated current.
Termination	Poles 1 and 2
Mounting	Snaps into panel from front.
Cutout Size	Fits 0.875 x 1.750 (22.22 x 44.45) panel opening from .032-.250" (0.813-6.35) thick.
Actuator	Rocker or lighted rocker.
Shock	30g tested to IEC 68-2-27, test Ea.
Vibration	8g tested to IEC 68-2-6, test Fc.
Endurance Cycling	50,000 operations at rated load; 1,000 operations at 200% rated load.

Current sensing thermal circuit breakers feature models with a single pole breaker and a single pole "on-off" switch and indicator light in one convenient, snap-in mount package. Available with black or white rocker (non-lighted) or with lighted rocker (120VAC neon light with resistor). 0.250 x 0.032" (6.35 x 0.813) quick connect/solder terminals. International I/O rocker marking. UL recognized (File E695430), CSA certified (File LR15734). Meets requirements of IEC. All are non-lighted. Versions with lighted rocker also available; call Newark.

Mfg. Part No.	Current Rating (A)	Rocker Color	Stock No.	Price Each		
				1-24	25-49	50-99
● W33-S1N1Q-5	5	Black	17M3350	16.67	15.70	14.82
● W33-S1N1Q-10	10	Black	17M3348	16.67	15.70	14.82
● W33-S1N1Q-15	15	Black	93F6690	16.67	15.70	14.82
● W33-S1N1Q-20	20	Black	17M3349	16.67	15.70	14.82
● W33-S2N1Q-5	5	White	93F6693	16.67	15.70	14.82
● W33-S2N1Q-10	10	White	93F6694	16.67	15.70	14.82
● W33-S2N1Q-20	20	White	93F6696	16.67	15.70	14.82
● W33-T2N1Q-5*	5	White	93F6701	23.55	22.18	20.94
● W33-T2N1Q-10*	10	White	93F6702	23.55	22.18	20.94
● W33-T2N1Q-15*	15	White	93F6703	23.55	22.18	20.94
● W33-T2N1Q-20*	20	White	93F6704	23.55	22.18	20.94
● W33-S4B1Q-5	5	Amber	93F6697	20.21	19.03	17.96
● W33-S4B1Q-10	10	Amber	17M3351	20.21	19.03	17.96

➤ CONTINUED ➤

CIRCUIT PROTECTION

● Indicates RoHS Compliant

THERMAL CIRCUIT BREAKERS

W33 THERMAL CIRCUIT BREAKERS (CONT.)

Mfg. Part No.	Current Rating (A)	Rocker Color	Stock No.	Price Each		
				1-24	25-49	50-99
● W33-S4B1Q-15	15	Amber	93F6699	20.21	19.03	17.96
● W33-S4B1Q-20	20	Amber	08H7137	20.21	19.03	17.96
● W33-T4B1Q-5*	5	Amber	17M3352	26.46	24.92	23.52
● W33-T4B1Q-10*	10	Amber	93F6706	26.46	24.92	23.52
● W33-T4B1Q-15*	15	Amber	93F6707	26.46	24.92	23.52

*Both poles 1 and 2 series trip overload sensing (2424)

TA35 SERIES THERMAL CIRCUIT BREAKERS



1-Pole



2-Pole



3-Pole

- Non-illuminated switches
- Rocker-actuated
- Positively trip-free release
- Snap-in mounting

- Quick-connect terminals (6.3 x 0.8mm)
- Insulation resistance: 500 VDC, over 100 Mohms
- Operating temperature: -10°C to 55°C
- Mechanical endurance: 50,000 cycles

NOTE: "C00" in mfg. part no. denotes no thermal overload protection. UL recognized, CSA certified. Other ratings available; go online or call.

1-POLE, 240VAC/32VDC

Mfg. Part No.	Current Rating (A)	Rocker Color	Rocker Legend	Rocker Surface	Stock No.	Price Each	
						1-9	10-24
● TA35-CFTWKJ20C0	2	White	ON - OFF	Printed	35M4258	7.00	6.36
● TA35-CFTWF030C0	3	White	I - 0	Embossed	35M4248	6.14	5.58
● TA35-CFTBF040C0	4	Black	I - 0	Embossed	35M4257	6.14	5.58
● TA35-CFTRF050C0	5	Red	I - 0	Embossed	35M4235	6.14	5.58
● TA35-CFTYF050C0	5	Yellow	I - 0	Embossed	35M4259	6.14	5.58
● TA35-CFTWF070C0	7	White	I - 0	Embossed	35M4265	6.14	5.58
● TA35-CFTRF100C0	10	Red	I - 0	Embossed	35M4285	6.14	5.58
● TA35-CFTWF150C0	15	White	I - 0	Embossed	35M4266	6.14	5.58
● TA35-CFTWF200C0	20	White	I - 0	Embossed	35M4231	6.14	5.58

2-POLE, 240VAC/60VDC

Mfg. Part No.	Current Rating (A)	Rocker Color	Rocker Legend	Rocker Surface	Stock No.	Price Each	
						1-9	10-24
● TA35-CBDWF030C0	3	White	I - 0	Embossed	35M4251	11.00	9.99
● TA35-CBDWF050C0	5	White	I - 0	Embossed	35M4268	11.00	9.99
● TA35-CBTWF060C0	6	White	I - 0	Embossed	35M4271	9.66	8.78
● TA35-CBDWF070C0	7	White	I - 0	Embossed	35M4269	11.00	9.99
● TA35-CBTWF080C0	8	White	I - 0	Embossed	35M4275	9.66	8.78
● TA35-CBTWF100C0	10	White	I - 0	Embossed	35M4276	9.66	8.78
● TA35-CBTWF160C0	16	White	I - 0	Embossed	35M4284	9.66	8.78
● TA35-CBDWF200C0	20	White	I - 0	Embossed	35M4242	11.00	9.99
● TA35-CBTWF200C0	20	White	I - 0	Embossed	35M4232	9.66	8.78

3-POLE, 415Y/240VAC

Mfg. Part No.	Current Rating (A)	Rocker Color	Rocker Legend	Rocker Surface	Stock No.	Price Each	
						1-9	10-24
● TA35-CKDWF050C0	5	White	I - 0	Embossed	35M4273	15.66	14.23
● TA35-CKDWF100C0	10	White	I - 0	Embossed	35M4279	15.66	14.23
● TA35-CKDWF120C0	12	White	I - 0	Embossed	35M4246	15.66	14.23

ACCESSORIES

Covers offer IP65 protection for TA35 series thermal circuit breakers.

Mfg. Part No.	Description	Stock No.	Price Each	
			1-9	10-24
● TA35-CZZ11	Thermal Circuit Breaker Cover, 1-Pole	35M4281	0.78	0.71
● TA35-CZZ21	Thermal Circuit Breaker Cover, 2-Pole	35M4282	0.83	0.75
● TA35-CZZ31	Thermal Circuit Breaker Cover, 3-Pole	35M4283	1.13	1.02

(94517)

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(94645)

TA45 SERIES THERMAL CIRCUIT BREAKERS



- Actuation: Rocker or Pushbutton
- Current/Voltage: 0.1-20A/240VAC, 30VDC
- Short-Circuit Capacity: 10 x 1n/300A
- Mounting/Terminals: Snap-In or Flange/Quick Connect or Screw

Ordering options include rocker or pushbutton (lighted or unlighted), protective cover, mechanical lock-out latch, snap-in or flange mounting, shunt terminal, auxiliary contact (changeover), and assorted accessories (factory-installed); go online or call. UL recognized, CSA certified, VDE approved.

Mfg. Part No.	Poles/Rating	Switch Color	Stock No.	Price Each	
				1-9	10-24
● ABTWF150C0	1-Pole/15A	White	84K0171	14.01	11.75
● ABTBF200C0	1-Pole/20A	Black	04M4501	14.01	11.75
● ABDWF100C0	2-Pole/10A	White	91B0283	19.08	16.00
● ABDBL050C0	2-Pole/5A	Black	93K7647	19.13	16.04
● ABTWF160C0	2-Pole/16A	White	88K1866	14.61	12.25
● ABTBL050C0	2-Pole/5A	Black	91F6160	20.55	17.66

ACCESSORIES

Factory installed. Sold in packages of 20.

Mfg. Part No.	Description	Stock No.	Price per Pkg.	
			1-9	10-24
● AZM01	Collar w/Cover	91B0320	1.81	1.52
● AZM03	Raised Collar	84K0193	0.94	0.79
● AZZ04	2 pole, Collar w/Cover	90B3279	2.35	1.97

(47879)

PEM45 SERIES THERMAL CIRCUIT BREAKER WITH AC INLET AND RFI FILTER



- Actuation: Rocker
- AC Inlet According to IEC 60320/C14
- Current/Voltage: 5-15A/250VAC
- Short-Circuit Capacity: 10 x 1n/300A
- Mounting/Terminals: Screw Mount/Quick Connect

UL and cUL recognized, VDE approved. Other ratings also available; go online or call.

Mfg. Part No.	Poles/Rating	Switch Color	Stock No.	Price Each			
				1-49	50-99	100-499	500-999
● 5-ABTWF050C0-511	1-Pole/5A	White	88K2166	37.11	32.94	29.61	26.97
● 5-ABTWF150C0-811	1-Pole/15A	White	95B8164	31.89	28.35	25.51	24.09
● 5-ABDWF060C0-511	2-Pole/6A	White	88K1415	40.77	36.19	32.53	29.63
● 5-ABDWF100C0-731	2-Pole/10A	White	88K2165	42.00	37.28	33.50	30.52
● 5-ABDWF050C0-531	2-Pole/5A	White	32C5147	34.36	30.54	27.49	25.96
● 5-ABDWF150C0-811	2-Pole/15A	White	32C5152	34.36	30.54	27.49	25.96
● 5-ABDWF150C0-831	2-Pole/15A	White	88K1416	40.77	36.19	32.53	29.63
● 5-ABDWF100C0-731	2-Pole/10A	White	55C4157	34.36	30.54	27.49	25.96

(69038)

AS168X SERIES THERMAL-MAGNETIC CIRCUIT BREAKERS



- Actuation: Manual On/Off, Positive Trip
- Current/Voltage: 0.5-50A/277VAC
- Short-Circuit Capacity: Up to 10,000A
- Meets UL1077-Circuit Breakers for Equipment and UL508-Manual Circuit Protection
- Mounting/Terminals: Snap-In DIN Rail/Clamp Box Lug with Pozidrive Screws
- Optional Locking Device for OFF Position

UL recognized, CSA certified, VDE approved. Other rated currents as well as 2-, 3- and 4-pole versions also available; go online or call.

1-POLE

Mfg. Part No.	Current Rating (A)	Power (HP)	Stock No.	Price Each			
				1-14	15-24	25-49	50-99
● AS168X-CB1G010	1	...	91F6118	29.77	27.10	25.64	24.43
● AS168X-CB1G020	2	0.167	84K0183	29.77	27.10	25.64	24.43
● AS168X-CB1G030	3	0.33	91F6120	28.90	26.31	24.89	23.71
● AS168X-CB1G040	4	0.33	91F6121	29.77	27.10	25.64	24.43
● AS168X-CB1G050	5	0.5	84K0184	29.77	27.10	25.64	24.43
● AS168X-CB1G100	10	2	85K8030	29.77	27.10	25.64	24.43
● AS168X-CB1G120	12	2	91F6124	23.74	21.61	20.44	19.47
● AS168X-CB1G150	15	3	84K0185	23.74	21.61	20.44	19.47

► CONTINUED ►

THERMAL CIRCUIT BREAKERS • THERMAL/MAGNETIC CIRCUIT BREAKERS

AS168X SERIES THERMAL-MAGNETIC CIRCUIT BREAKERS (CONT.)

Mfg. Part No.	Current Rating (A)	Power (HP)	Stock No.	Price Each			
				1-14	15-24	25-49	50-99
● AS168X-CB1G200	20	3	91F6126	23.74	21.61	20.44	19.47
● AS168X-CB1G300	30	5	91F6127	23.74	21.61	20.44	19.47

2-POLE

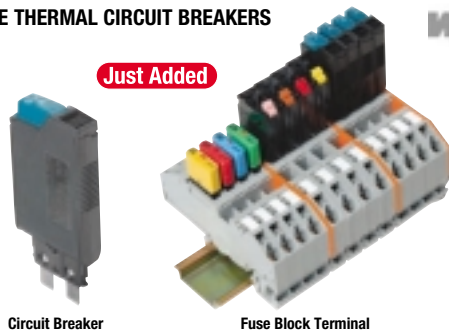
● AS168X-CB2G010	1	...	88K1038	65.77	59.87	56.65	53.96
● AS168X-CB2G020	2	...	91F6129	65.77	59.87	56.65	53.96
● AS168X-CB2G030	3	0.5	91F6130	65.77	59.87	56.65	53.96
● AS168X-CB2G040	4	1	84K0186	65.77	59.87	56.65	53.96
● AS168X-CB2G050	5	1.5	88K1039	65.77	59.87	56.65	53.96
● AS168X-CB2H100	10	3	84K0188	65.77	59.87	56.65	53.96
● AS168X-CB2G100	10	3	91F6133	65.77	59.87	56.65	53.96
● AS168X-CB2G120	12	3	84K0187	53.71	48.88	46.25	44.06
● AS168X-CB2G150	15	5	01M6883	53.71	48.88	46.25	44.06
● AS168X-CB2G200	20	5	91F6136	53.71	48.88	46.25	44.06
● AS168X-CB2G300	30	10	91F6137	53.71	48.88	46.25	44.06

3-POLE

● AS168X-CB3G010	1	...	91F6138	99.36	90.44	85.57	81.52
● AS168X-CB3G020	2	0.75	84K0189	99.36	90.44	85.57	81.52
● AS168X-CB3G030	3	1.5	84K0190	99.36	90.44	85.57	81.52
● AS168X-CB3G040	4	2	91F6141	99.36	90.44	85.57	81.52
● AS168X-CB3G050	5	3	91F6142	99.36	90.44	85.57	81.52
● AS168X-CB3G100	10	5	84K0191	80.67	73.43	69.47	66.18
● AS168X-CB3G120	12	7.5	84K0192	81.46	74.15	70.16	66.83
● AS168X-CB3G150	15	10	91F6145	81.46	74.15	70.16	66.83
● AS168X-CB3G200	20	10	91F6146	81.46	74.15	70.16	66.83
● AS168X-CB3G300	30	20	91F6147	81.46	74.15	70.16	66.83

(47878)

MINIATURE THERMAL CIRCUIT BREAKERS



Circuit Breaker

Fuse Block Terminal

Features:

- DIN rail mount miniature thermal circuit breakers
- Protects power distribution systems, automation systems, and process control applications
- CAGE CLAMP® connection technology
- Terminal blocks available on page 920

Specifications:

- Voltage rating: AC 250V, DC 65V
- Current ratings: 0.1 to 10A
- Typical life: 3000 operations
- Ambient temperature: -20°C to +60°C (-4°F to +140°F)

Mfg. Part No.	Amps (A)	Stock No.	Price Each
			1-24
51014625	0.10	45M7285	12.71
51011135	0.25	29K2056	13.64
51011136	0.50	29K2057	13.64
51017673	5.00	29K2079	13.64
51011143	10.00	29K2064	13.64

(94457)

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(94650)

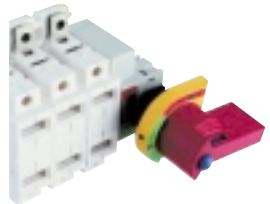
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FUSIBLE AND NON-FUSIBLE DISCONNECT SWITCHES AND ACCESSORIES



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IEC-style disconnect switches utilize the latest technology and are designed to reduce panel space up to 25% without sacrificing performance or personnel safety. Available in ratings from 30-100A. Supplied with line-side terminal shrouds, all switches offer clear "on" and "off" position indication on both handle and switch, and can be padlocked in the "off" position with up to 3 locks. For complete disconnect select switch, shaft and handle. UL listed, CSA certified, CE compliant.

COMPACT GS1 FUSIBLE IEC-STYLE DISCONNECT SWITCHES

Mfg. Part No.	Description	Stock No.	Price Each	
			Each	2-4
GS1DDU3	30A, 3-Pole, Class CC, Use 5 x 5 Shaft	96B0146	179.17	168.93
GS1DU3	30A, 3-Pole, Class J, Use 5 x 5 Shaft	96B0147	196.18	184.97

GS1 FUSIBLE IEC-STYLE DISCONNECT SWITCHES

GS1EEU3	30A, 3-Pole, Class CC, Use 10 x 10 Shaft	96B0148	179.17	168.93
GS1GU3	60A, 3-Pole, Class J, Use 10 x 10 Shaft	96B0150	254.02	239.50
GS1JU3	100A, 3-Pole, Class J, Use 10 x 10 Shaft	96B0151	404.85	381.72

COMPACT LK3 NON-FUSIBLE IEC-STYLE DISCONNECT SWITCHES

LK3DU3	30A, 3-Pole, Use 5 x 5 Shaft	96B0198	164.43	155.04
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LK3 NON-FUSIBLE IEC-STYLE DISCONNECT SWITCHES

LK3GU3	60A, 3-Pole, Use 10 x 10 Shaft	96B0199	198.45	187.11
LK3JU3	100A, 3-Pole, Use 10 x 10 Shaft	96B0200	345.87	326.11

SHAFT FOR SWITCHES

GS1AE8	5 x 5 320mm Type D Extension Shaft	96B0133	14.07	13.27
GS1AE81	5 x 5 400mm Type D Extension Shaft	96B0134	17.57	16.57
GS1AE2	10 x 10 320mm Type D Extension Shaft	96B0131	15.32	14.44
GS1AE21	10 x 10 400mm Type D Extension Shaft	96B0132	18.83	17.76

FRONT-ENCLOSURE-MOUNTED HANDLES*

GS1AH420	Red/Yellow, Lockable for 30-60A	96B0140	52.85	49.83
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FRONT-ENCLOSURE-MOUNTED HANDLES WITH TEST*+

GS1AHT420	Red/Yellow, Lockable for 30-60A	96B0136	94.12	88.74
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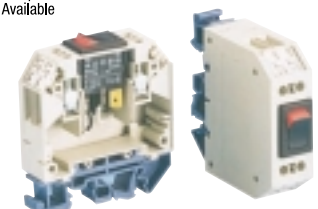
*Type 4, 4X-Rated (Indoor Use Only), +Test feature allows testing of AUX contacts w/o energizing power circuit (51071)

TOGGLE SWITCH MODULE



wiend

Switch module functions to turn on or off a branch circuit under load. Available in DPST circuit variation. Unit is rated 8A at 125V and 4A at 250V and is designed with a universal mounting base for DIN rail assembly. Ideal for enclosures with restricted space and/or a hard-to-reach disconnect. Housing: polyamide 6.6. Pressure connector: zinc-plated and chromated steel. Current bar: tin-plated copper alloy. Color: gray.



Mfg. Part No.	Circuit	Stock No.	Price Each	
			1-24	
● 34.243.0012.0	DPST	29M7968	30.02	

(69532)

SERIES FAZ CIRCUIT BREAKERS



MOELLER

Suitable for DIN rail mounting, these thermal-magnetic miniature circuit breakers are UL listed as supplementary protectors, UL 1077/CSA 235. Available in single or multiple pole versions and according to EN60898. CSA certified, CE compliant.



"B" TRIP CHARACTERISTIC

Instantaneous trip response 3-5 times current rating.

1-POLE, 277VAC MAX.

Mfg. Part No.	Current Rating (A)	Stock No.	Price Each	
			Each	2-5
● FAZ-B10/1	10	32M7843	7.89	7.57
● FAZ-B13/1	13	32M7844	7.89	7.57
● FAZ-B20/1	20	32M7845	7.89	7.57
● FAZ-B32/2	32	86K9999	26.92	25.83

➔ CONTINUED ➔

CIRCUIT PROTECTION

THERMAL/MAGNETIC CIRCUIT BREAKERS

SERIES FAZ CIRCUIT BREAKERS (CONT.)

2-POLE, 277/480VAC MAX.

Mfg. Part No.	Current Rating (A)	Stock No.	Price Each	
			Each	2-5
● FAZ-B20/2	20	32M7846	26.92	25.83

3-POLE, 277/480VAC MAX.

● FAZ-B13/3	13	29M6689	39.45	37.85
● FAZ-B25/3	25	32M7847	39.45	37.85

"S" TRIP CHARACTERISTIC

Instantaneous trip response time 13-17 times current rating.

1-POLE, 240VAC MAX.

Mfg. Part No.	Current Rating (A)	Stock No.	Price Each	
			Each	2-5
FAZ-S 1/1	1	15M6260	9.29	8.91
● FAZ-S3/1	3	89K7285	9.29	8.91
● FAZ-S4/1	4	32M7854	9.29	8.91

"C" TRIP CHARACTERISTIC

Instantaneous trip response 5-10 times current rating.

1-POLE, 277VAC MAX.

Mfg. Part No.	Current Rating (A)	Stock No.	Price Each	
			Each	2-5
● FAZ-C1/1	1	14M9324	12.07	11.58
● FAZ-C13/1	13	32M7849	12.07	11.58
● FAZ-C16/1	16	87K2004	12.07	11.58

2-POLE, 277/480VAC MAX.

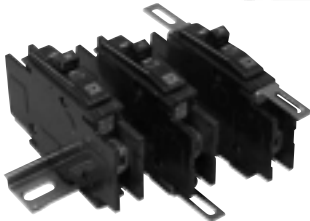
● FAZ-C2/2	2	82K9812	27.39	26.27
● FAZ-C13/2	13	29M6685	27.39	26.27
● FAZ-C16/2	16	78K6486	27.39	26.27
● FAZ-C20/2	20	87K2013	27.39	26.27
● FAZ-C25/2	25	32M7850	27.39	26.27

3-POLE, 277/480VAC MAX.

● FAZ-C0.5/3	0.5	32M7848	100.56	96.46
● FAZ-C4/3	4	32M7852	40.84	39.18
● FAZ-C6/3	6	32M7853	40.84	39.18
● FAZ-C13/3	13	21M7085	40.84	39.18
● FAZ-C25/3	25	32M7851	40.84	39.18
● FAZ-C32/3	32	87K0320	40.84	39.18

(38970)

QOU SERIES THERMAL-MAGNETIC MINIATURE CIRCUIT BREAKERS



- Mounting Feet (Included) Allow Surface or Flush Mounting or 35mm DIN Rail Mounting
- Three Handle Positions: ON, OFF, and TRIPPED, with Red VISI-TRIP Indicator
- UL489 Listed for Branch Circuit Protection; NEMA Standard AB-1; CSAC22.2 No. 5.1
- UL Listed 120/240VAC to 10 kA 1 and 2 Pole; 240VAC, 10kA for 3-Pole
- Also 48VDC 5 kA AIR
- UL Listed as HACR Type - 15 - 70 A

- Terminal Lug Wire Size 1 #14 - #2AWG Copper or Aluminum
- Reversible Line and Load Lugs for Front or Rear Wiring
- Single Handle with Internal Common Trip (Multiple Poles)
- Order Field-Installable Accessories Separately Below
- Factory-Installed Electrical Auxiliaries Available; Go online or call

1-POLE, 120/240VAC

Mfg. Part No.	Current Rating (A)	Stock No.	Price Each	
			Each	2-4
QOU110	10	90B9266	30.62	28.90
QOU115	15	90B2458	30.62	28.90
QOU120	20	16B1975	30.62	28.90
QOU125	25	16B1981	30.62	28.90
QOU130	30	16B1984	30.62	28.90
QOU135	35	16B1989	30.62	28.90
QOU140	40	16B1990	30.62	28.90
QOU145	45	16B1999	30.62	28.90
QOU150	50	16B2001	30.62	28.90
QOU160	60	16B2004	30.62	28.90
QOU170	70	16B2010	59.43	56.10
QOU180	80*	16B2011	133.70	126.19

► CONTINUED ►

● Indicates RoHS Compliant

QOU SERIES THERMAL-MAGNETIC MINIATURE CIRCUIT BREAKERS (CONT.)

Mfg. Part No.	Current Rating (A)	Stock No.	Price Each	
			Each	2-4
QOU190	90*	16B2012	133.70	126.19
QOU1100	100*	16B1969	133.70	126.19

2-POLE, 120/240VAC

QOU210	10	16B2014	66.27	62.55
QOU215	15	16B2017	66.27	62.55
QOU220	20	16B2023	66.27	62.55
QOU225	25	16B2028	66.27	62.55
QOU230	30	16B2031	66.27	62.55
QOU235	35	80C3911	66.27	62.55
QOU240	40	16B2038	66.27	62.55
QOU245	45	16B2042	66.27	62.55
QOU250	50	16B2046	66.27	62.55
QOU260	60	16B2050	66.27	62.55
QOU270	70	16B2065	130.27	122.96
QOU280	80*	16B2067	187.40	176.88
QOU290	90*	16B2068	187.40	176.88
QOU2100	100*	16B2015	187.40	176.88
QOU2125	125*	16B2016	343.94	324.64

3-POLE, 240VAC

QOU310	10	16B2072	217.11	204.93
QOU315	15	16B2076	217.11	204.93
QOU320	20	16B2080	217.11	204.93
QOU325	25	16B2084	217.11	204.93
QOU330	30	17C7986	217.11	204.93
QOU335	35	16B2089	217.11	204.93
QOU340	40	16B2091	217.11	204.93
QOU350	50	16B2098	217.11	204.93
QOU360	60	16B2102	217.11	204.93
QOU370	70*	16B2105	276.54	261.02
QOU380	80*	16B2108	316.52	298.76
QOU390	90*	16B2110	316.52	298.76
QOU3100	100*	16B2073	316.52	298.76

*Requires high ampere accessories

FIELD-INSTALLABLE ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each
BCV	Vertical Rainproof Cover 2- and 3-Pole QO, QOU, EH, FA and KA	79C5179	23.43
BCH	Horizontal Rainproof Cover 2-Pole QO, QOU, EH, and 3-Pole Q2, EH	79C5177	23.43
QOUHFC1	1-Pole Finger Safe Cover for High Ampere QOU (1 Piece)	80C3881	1.94
QOULFSC1	1-Pole Finger Safe Cover for Low Ampere QOU (1 Piece)	16B1925	1.94
QOURT	Ring Tongue Terminal Adapter (1 Piece)	80C3883	4.36
QOUMF1	1-Pole QOU Mounting Foot (1 Piece)	16B1927	0.53
QOUMF2	2-Pole QOU Mounting Foot (1 Piece)	16B1929	1.14
QOUMF3	3-Pole QOU Mounting Foot (1 Piece)	16B1931	1.71
QOUQC	Quick Connector for End Connection Wiring (30A Max.) (1 Piece)	80C3879	4.36
QO2DTI	Mechanical Interlock Attachment	80C4154	18.98
HL01	Handle Lock-Off Clamp, OFF or ON	25C4927	7.55
QOU1PA	Padlock Attachment, 1-Pole, Low Amp, Fixed, OFF Only	16B1966	7.67
QOU1PL	Padlock Attachment, 2- or 3-Pole, Low Amp, Fixed, OFF or ON	16B1967	7.67

(72421)

MULTI-9™ C60N UL489 MINIATURE CIRCUIT BREAKERS



- 1-2-3 Pole Configurations
- Small Size: Less Than 3/4" Per Pole (0.71")
- Interrupt Rating 10kA @ 120VAC (1P), 240VAC (2 or 3P); 5kAC @ 240VAC (1P)
- DC Rating 10kA @ 60VDC (1P) and 125VDC (2P)
- Common Tripping of All Poles
- Padlock Attachment in the "Off" Position Only

Applications Requiring UL489 Listed Branch Circuit Protection

- Required to Protect Convenience Receptacle Circuits (Internal or External)
- Required to Protect an External Load Circuit Leaving the Equipment
- Required for HACR Equipment (Heating, Air Conditioning, and Refrigeration)
- Required for Motors in the Equipment



3-Pole

1-Pole

This series is a UL 489 version of the C60N family of DIN mount circuit protectors. Meets global applications and code requirements including UL, IEC and CSA. CE compliant. Features C trip curve for typical loads; magnetic release operates between 7 and 10 times ampere rating. Box lug terminals. D. Curve (10-14 times handle rating) and a variety of accessories also available; go online or call.

► CONTINUED ►

THERMAL/MAGNETIC CIRCUIT BREAKERS

MULTI-9™ C60N UL489 MINIATURE CIRCUIT BREAKERS (CONT.)

1-POLE

Mfg. Part No.	Current Rating (A)	Stock No.	Price Each	
			1-5	6-14
60101	1.0	30C9349	84.20	78.88
60102	1.5	30C9350	84.20	78.88
60103	2	30C9351	84.20	78.88
60104	3	30C9352	84.20	78.88
60105	4	30C9353	84.20	78.88
60106	5	30C9354	84.20	78.88
60107	6	30C9355	77.10	72.23
60108	7	30C9356	77.10	72.23
60109	8	30C9357	77.10	72.23
60110	10	30C9358	77.10	72.23
60111	13	30C9359	77.10	72.23
60112	15	30C9360	77.10	72.23
60113	20	30C9361	77.10	72.23
60114	25	30C9362	77.10	72.23
60115	30	30C9363	81.16	76.03
60116	35	30C9364	81.16	76.03

2-POLE

60135	1.0	30C9366	181.59	170.11
60136	1.5	30C9367	181.59	170.11
60137	2	30C9368	181.59	170.11
60138	3	30C9369	181.59	170.11
60139	4	30C9370	181.59	170.11
60140	5	30C9371	181.59	170.11
60141	6	30C9372	166.37	155.85
60142	7	30C9373	166.37	155.85
60143	8	30C9374	166.37	155.85
60144	10	30C9375	166.37	155.85
60145	13	30C9376	166.37	155.85
60146	15	30C9377	166.37	155.85
60147	20	30C9378	166.37	155.85
60148	25	30C9379	166.37	155.85
60149	30	30C9380	173.46	162.50
60150	35	30C9381	173.46	162.50

3-POLE

60168	1.0	30C9382	261.72	245.17
60169	1.5	30C9383	261.72	245.17
60170	2	30C9384	261.72	245.17
60171	3	30C9385	261.72	245.17
60172	4	30C9386	261.72	245.17
60174	6	30C9388	240.42	225.22
60175	7	30C9389	240.42	225.22
60176	8	30C9390	240.42	225.22
60178	13	30C9392	240.42	225.22
60179	15	30C9393	240.42	225.22
60180	20	30C9394	240.42	225.22
60181	25	30C9395	240.42	225.22
60182	30	30C9396	251.57	235.67
60183	35	30C9397	251.57	235.67

(68923)

MULTI-9 C60N UL 1077 SUPPLEMENTARY PROTECTORS



- Intended for use within equipment where branch circuit protection is already provided or not needed
- C-Curve types are dual rated for UL 1077 and UL 489A for DC Telecom applications
- Suitable for reverse feeding
- 10K AIR @ 120/240VAC; 5K AIR @ 480Y/277

C TRIP CURVE FOR TYPICAL LOADS

Magnetic release operates between 7 and 10 times rating.

1-POLE

Mfg. Part No.	Current Rating (A)	Stock No.	Price Each	
			1-5	6-14
MG24425	1	42M2331	67.40	63.54
MG24426	2	96F2008	67.40	63.54
MG24428	4	96F2010	67.40	63.54
MG24430	6	96F2011	67.40	63.54
MG24432	10	96F2013	67.40	63.54
MG17416	15	16B1251	75.00	70.70
MG24435	20	16B1387	75.00	70.70

▶ CONTINUED ▶

MULTI-9 C60N UL 1077 SUPPLEMENTARY PROTECTORS (CONT.)

Mfg. Part No.	Current Rating (A)	Stock No.	Price Each	
			1-5	6-14
MG24436	25	16B1388	67.40	63.54
MG17417	30	16B1252	75.00	70.70
MG24438	40	16B1390	82.83	78.09
MG24439	50	16B1391	87.31	82.30
MG17419	60	16B1254	91.80	86.54

2-POLE

MG24443	2	96F2016	145.33	137.00
MG24445	4	96F2018	145.33	137.00
MG24447	6	96F2019	145.33	137.00
MG24448	8	96F2020	133.22	124.89
MG24449	10	42M2332	145.33	137.00
MG24452	20	29M8579	162.32	153.02
MG24453	25	16B1403	162.32	153.02
MG17447	30	16B1277	162.32	153.02
MG24455	40	16B1405	166.79	157.24
MG24456	50	16B1406	179.10	168.84
MG17449	60	16B1279	151.81	143.00
MG24457	63	16B1407	188.05	177.28

3-POLE

MG24464	6	96F2027	210.63	198.56
MG24465	8	96F2028	189.77	178.75
MG24466	10	96F2029	210.63	198.56
MG17466	15	17C7953	235.07	221.60
MG24469	20	99F7854	235.07	221.60
MG17468	35	16B1292	235.07	221.60
MG24472	40	99F6287	241.79	227.94
MG17469	60	16B1293	263.06	247.99

D TRIP CURVE FOR HIGH INRUSH

Magnetic release operates between 10 and 14 times rating.

1-POLE

Mfg. Part No.	Current Rating (A)	Stock No.	Price Each	
			1-5	6-14
MG24500	1	29M8586	60.55	57.03
MG17426	15	16B1260	75.00	70.70
MG24509	20	16B1445	75.00	70.70
MG24510	25	16B1446	60.55	57.03
MG24512	40	16B1448	66.87	62.99
MG24513	50	16B1449	70.48	66.39

2-POLE

MG24516	1	16B1451	162.32	153.02
MG24519	4	16B1454	162.32	153.02
MG24521	8	16B1456	131.04	123.43
MG24522	10	92F033	162.32	153.02
MG17456	15	16B1284	162.32	153.02
MG24525	20	16B1460	131.04	123.43
MG24526	25	29M8595	162.32	153.02
MG24528	40	16B1463	166.79	157.24
MG24530	63	16B1465	188.05	177.28

3-POLE

MG24535	4	16B1469	189.77	178.75
MG24536	16	88F2704	235.07	221.60
MG24538	10	16B1472	189.77	178.75
MG17471	15	16B1295	189.77	178.75
MG24541	20	16B1475	189.77	178.75
MG24542	25	16B1476	235.07	221.60
MG17472	30	16B1296	235.07	221.60
MG17473	35	16B1297	235.07	221.60
MG24544	40	88F3399	195.20	183.86
MG24545	50	16B1478	251.87	237.44
MG17474	60	16B1298	212.37	200.04

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