

TABLE OF CONTENTS

SECTION I: GENERAL PURPOSE FUSE PRODUCTS

1/4" X 1-1/4" (3AB) CERAMIC FAST ACTING AND TIME DELAY FUSES;	PAGE
1/4" X 1-1/4" (3AG)GLASS FAST ACTING AND TIME DELAY FUSES;	01
5mm X 20mm CERAMIC FAST ACTING AND TIME DELAY FUSES	
5mm X 20mm (F & T) GLASS FAST ACTING AND TIME DELAY FUSES;	PAGE
5mm X 15mm (2AG)GLASS FAST ACTING AND TIME DELAY FUSES;	02
3.6mm X 10mm(CERAMIC)FAST ACTING&TIME DELAY FUSES	
3.6mm X 10mm (GLASS)FAST ACTING&TIME DELAY FUSES;	PAGE
SUBMINIATURE (PICO FUSES) FAST ACTING AND TIME DELAY;	03
MICRO FUSES FAST ACTING AND TIME DELAY	
SURFACE MOUNT FUSES FAST & TIME DELAY;	PAGE
RESETTABLE FUSES, 30VOLT AND 60VOLT;TELECOM FUSES,	04
FLUORESCENT LIGHT FIXTURE FUSES GLR FUSES)	_
TELECOM FUSEHOLDER;	PAGE
PCB MOUNTED FUSE HOLDERS;	05
PANEL MOUNTED FUSE HOLDERS	
	PAGE
IN-LINE FUSE HOLDERS	06
FUSE CLIPS	PAGE
FLUKE METER FUSES	07
SECTION II: INDUSTRIAL MIDGET FUSES	

ATM & ATQ & TRM SERIES(MIDGET FUSES 13/32" X 1 1/2");	PAGE
ATMR & ATQR & ATDR SERIES (CLASS CC);	08
AG SERIES (CLASS G)	00
A3T, A6T SERIES (CLASS T);	PAGE
AJT SERIES (CLASS J)	09
TR & TRS SERIES (CLASS RK5)	00

SECTION III: AUTOMOTIVE FUSE PRODUCTS

1/4" X 5/8" GLASS FAST ACTING (1AG) FUSES; 13/32" X 1-1/2" GLASS FAST ACTING (5AG) FUSES; 1/4" X 7/8" GLASS FAST ACTING(7AG) FUSES; 1/4" X 1' GLASS FAST ACTING (8AG0 FUSES; FSO SERIES FLASS FAST ACTING (SFE TYPE FUSES); TORPEDO SHAPED EUROPEAN AUTO FUSES	PAGE 10
AUTO BLADE FUSES: LOW PROFILE MINI AUTO BLADE FUSES; MINI AUTO BLADE FUSES; STANDARD SIZE AUTO BLADE FUSES; LARGE SIZE AUTO BLADE FUSES	PAGE 11
INLINE FUSE HOLDERS FOR AUTO BLADE FUSES	PAGE 12
AUTOMOTIVE/MARINE LIMITERS: ANE SERIES; ANF SERIES; MGGA SERIES; MID SERIES	PAGE 13
AUTOMOTIVE FUSE LINKS: TFLB SERIES; TFLM SERIES; TFLF SERIES	PAGE 14
AUTOMOTIVE FUSE LINKS: TFLS SERIES; TFLD SERIES; TFLN SERIES; TFLP SERIES; FMX SERIES	PAGE 15
FUSEBLOCKS: FOR LIMITERS, AUTOMOTIVE BLADE FUSES, 1/4" X 1-1/4" GLASSS & CERAMIC FUSES; 5mm X 20mm GLASS & CERAMIC FUSES	PAGE 16
AUTOMOTIVE CIRCUIT BREAKERS	PAGE 17

BACK COVER: CROSS REFERENCE

1/4" X 1 1/4" CERAMIC FAST ACTING FUSES (3AB)

PART#: 3CF(x)mA or **A** (Substitue amperage for x)

DESC: Fast Acting/Ceramic Construction: A cost-effective general purpose fast-acting fuse for use in all higher interrupting capacity and voltage applications.

Electrical Specifications:100mA-30A 250VAC;

Time Characteristics:110% 4hr min.hold time,135% 1hrmax hold time, 200% 5secs.max hold time 10 secs max(12A~30A)

Physical Specifications:Ceramic body/nickel plated brass contacts;

Lead wire: Tin plated copper

Agency Standards & Listings:UL Listed (125mA-15A); UL Recognized (20A-30A);CSA Certified (125mA-15A) Sold as 5 packs (V at end of part number)

1/4" X 1 1/4" CERAMIC TIME DELAY FUSES

PART#: 3CS(x)mA or **A** (Substitue amperage for x)

DESC: Time Delay/Ceramic Construction: A cost-effective general purpose time-delay fuse for use in higher interrupting and voltage applications where additional time is

necessary for high in-rush currents. **Electrical Specifications:** 100mA-30A 250VAC; 25A-30A 125VAC **Time Characteristics:**110% 4hr min.hold time,135% 1hr max hold time, 200% 5secs.

max hold time(125mA~10A)10 secs max(12A~30A)

Physical Specifications: ceramic body/nickel plated brass contacts; Lead wire: tin plated copper Agency Standards & Listings: UL Listed (125mA-20A);UL Recognized (25A-30A); CSA Certified (125mA-15A); MITI(1A -15A) Sold as 5 packs (V at end of part number)

1/4" x 1 1/4" GLASS FAST ACTING FUSES (3AG)

PART#: 3GF(x)mA or **A** (Substitue amperage for x) **DESC:Fast Acting/Glass Construction:** A costeffective general purpose fast-acting fuse for use in all low interrupting capacity applications.

Electrical Specifications:63mA-10A 250VAC: 12A-30A 32VAC

Physical Specifications: Glass Body/Nickel Plated Brass Contacts

Time Characteristics:110% 4h min.hold time;135%1h max.hold time; 200% 5s max. hold time(125mA-10A);10s max. hold time (12A-30A)

Agency Standards:UL Listed (125mA-10A); UL Recognized (15A-30A);CSA Certified (125mA-30A)

Sold as 5 packs (V at end of part number) *PT in part number stands for Pigtails(axial lead fuses)*

1/4" x 1 1/4" GLASS TIME DELAY FUSES

PART#: 3GS(x)mA or A (Substitue amperage for x) DESC:Time Delay/Glass Construction: A cost-effective general purpose time-delay fuse for use in all low interrupting capacity applications where additional time is necessary for high in-rush currents.

Electrical Specifications: 63mA-10A 250V; 12A-30A 32V **Physical Specifications:** Glass Body/Nickel Plated Brass Contacts **Time Characteristics:** 110% 4h min. hold time; 135% 1h max. hold time; 200% 5s max. hold time (125mA-10A); 10s max. hold

time (12A-30A) **Agency Standards:**UL Listed (125mA-10A); UL Recognized (15A-30A);CSA Certified (125mA-30A)Sold as 5 packs (V at end of part number) *PT in part number stands for Pigtails(axial lead fuses)*

5mm X 20mm CERAMIC FAST ACTING FUSES

PART#: MCF(x)mA or **A** (Substitue amperage for x) **DESC:Fast Acting/Ceramic Construction:** A costeffective fast-acting fuse for use in higher interrupting capacity **Electrical Specifications:** 100mA-20A 250VAC**Physical Specifications:** Ceramic body / Nickel Plated Brass Caps **Lead Wire:**Tin plated copper **Operating Temperature:** -55°C to +125°C

Time Characteristics: 110% 4h min. hold time;135% 1h max. hold time200% 120s max. hold time **Agency Standards & Listings:** UL Listed (125mA-15A);UL Recognized (16A-20A);CSA Certified (10mA-15A)Sold in 5 packs (V at end of part number) *PT in part number stands for Pigtails(axial lead fuses)*



5mm X 20mm CERAMIC TIME DELAY FUSES

PART#: MCS(x)mA or **A** (Substitue amperage for x) **DESC:Fast Acting/Ceramic Construction**: A cost-effective time delay fuse for use in higher interrupting capacity **Electrical Specifications:** 100mA-20A 250VAC;

Physical Specifications: Ceramic body / Nickel Plated Brass Caps Lead Wire: Tin plated copper

Operating Temperature: -55°C to +125°C

Time Characteristics: 110% 4h min. hold time;135% 1h max. hold time;

200% 5s min. hold time 120s max. hold time

Agency Standards & Listings: UL Listed (10mA-15A);UL Recognized (16A-20A);

CSA Certified (10mA-15A) Sold in 5 packs (V at end of part number)

PT in part number stands for Pigtails(axial lead fuses)











5mm X 20mm GLASS FAST ACTING FUSES

PART#: MGF(x)mA or A (Substitue amperage for x) DESC:Fast Acting/Glass Construction: A cost effective fast-acting fuse for use in all low interrupting capacity applications Electrical Specifications:10mA-20A 250VAC; Physical Specifications: Glass Body/Nickel Plated Brass Contacts Lead Wire: Tin Plated Copper Operating Temperature: -55C - +125C Time Characteristics:110% 4h min. hold time; 135% 1h max. hold time;200% 120s max. hold time Agency Standards & Listings:UL Listed (10mA-10A);UL Recognized (12A-20A);CSA Certified (10mA-10A) Sold in 5 packs (V at end of part#)*PT in part numbers are pigtails(axial lead fuses)*

5mm X 20mm GLASS TIME DELAY FUSES

PART#: MGS(x)mA or A (Substitue amperage for x) DESC:Time Delay/Glass Construction: A cost effective true time-delay for use in all low interrupting capacity applications where extended time-delay is necessary for in-rush currents. Electrical Specifications: 10mA-20A 250VAC Physical Specifications: Glass Body/Nickel Plated Brass Contacts Lead Wire: Tin Plated Copper Operating Temperature: -55C- +125C

Time Characteristics:110% 4h min.hold time 135% 1h max.hold time; 200% 5s min. hold time; 120s max. hold time **Agency Standards & Listings:** UL Listed (10mA-8A);

UL Recognized (8A-20A);CSA Certified(10mA-8A)

Sold in 5 packs (V at end of part#) *PT in part numbers are pigtails(axial lead fuses)*

5mm X 15mm GLASS FAST ACTING FUSES (2AG)

PART#:2GF(x)mA or A (Substitue amperage for x) DESC:Fast Acting/Glass Construction: A fast-acting fuse for use in all low interrupting capacity applications where PCB space is limited.Electrical Specifications:100mA-15A 250VAC
Physical Specifications: Glass Body/ Nickel Plated Brass Contacts; Lead Wire: Tin plated Copper; Operating Temperature: -55°C ~ +125°C
Time Characteristics: 110% 4h min. hold time; 135% 1h max. hold time; 200% 2s max. hold time Agency Standards & Listings: UL Listed (10mA ~ 3.5A); CSA Certified (10mA ~ 3.5A);MITI (1A ~ 3.5A)

Sold in 5 packs (V at end of part#) *PT in part# is for pigtail (axial lead fuses)*

5mm X 15mm GLASS TIME DELAY FUSES PART#:2GS(x)mA or A (Substitue amperage for x) DESC: Time Delay/Glass Construction: A time delay fuse for use in all low interrupting capacity applications where PCB space is limited and higher in rush currents are limited

Electrical Specifications:100mA-3A (250 VAC); 3.15A-10A (125 VAC)

Physical Specifications: Glass Body/ Nickel Plated Brass Contacts

Lead Wire: Tin plated Copper Operating Temperature: -55°C ~ +125°C

Time Characteristics: 110% 4h min. hold time;135% 1h max. hold time; 200% 2s max. hold time **Agency Standards & Listings:** UL Listed (10mA ~ 8A);CSA Certified (10mA ~ 8A);MITI (1A ~ 8A) Sold in 5 packs (V at end of part#) **Call for bulk pricing**PT in part# is for pigtail (axial lead fuses)

3.6mm X 10mm CERAMIC FAST ACTING FUSES

PART#:XMCF(x)mA or **A** (Substitue amperage for x) **DESC: Fast Acting/Ceramic Construction:** A cost-effective fast-acting fuse for use on printed circuit boards and other subminiature protection applications.**Electrical Specifications:**500mA-5A 250VAC

Physical Specifications: Ceramic Body; Nickel/Brass Caps Lead Wire: Tin Plated Copper Operating Temperature: -55°C ~ +125°C Agency Standards: UL listed, CSA Certified Time Characteristics: 100% 4h min. hold time; 200% 5s max. hold time

Sold in 5 packs (V at end of part#) **Call for bulk pricing** PT in part# is for pigtail (axial lead fuses)

3.6mm X 10mm CERAMIC TIME DELAY FUSES

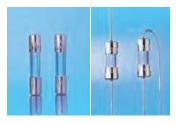
PART#:XMCF(x)mA or **A** (Substitue amperage for x)

DESC:Time Delay/Ceramic Construction:A cost-effective time delay fuse for use on printed circuit boards and other subminiature protection applications where in-rush currents are present. **Electrical Specifications:**500mA-5A 250VAC Agency Standards: UL listed, CSA Certified **Physical Specifications:** Ceramic Body; Nickel/Brass Caps

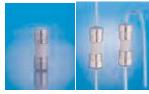
Lead Wire:Tin Plated Copper **Operating Temperature:** -55°C ~ +125°C **Time Characteristics:**100% 4h min. hold time 200% 60s max. hold time Sold in 5 packs (V at end of part#)

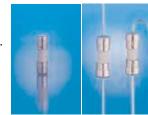
PT in part# is for pigtail (axial lead fuses)











3.6mm X 10mm GLASS FAST ACTING FUSES

PART#:XMGF(x)mA or A (Substitue amperage for x) Fast Acting/Glass Construction: A cost-effective fast-acting fuse for use on printed circuit boards and other subminiature protection applications.

Electrical Specifications:100mA-6.3A 250VAC **Physical Specifications:** Glass Body; Nickel/Brass Caps **Lead Wire:**Tin Plated Copper**Operating Temperature:** -55°C ~ +125°C **Agency Standards:** UL listed, CSA Certified **Time Characteristics:**100% 4h min. hold time; 200% 5s max. hold time Sold in 5 packs (V at end of part#) * PT in part# is for pigtail (axial lead fuses)*

3.6mm X 10mm GLASS TIME DELAY FUSES

PART#:XMCF(x)mA or A (Substitue amperage for x) Time Delay/Glass Construction: A costeffective fast-acting fuse for use on printed circuit boards and other subminiature protection applications where in-rush currents are present.**Electrical Specifications:**100mA-6.3A 250VAC **Operating Temperature:** -55°C ~ +125°C **Physical Specifications:** Glass Body; Nickel/Brass Caps **Lead Wire:**Tin Plated Copper **Agency Standards:** UL listed, CSA Certified**Time Characteristics:**100% 4h min. hold time; 200% 5s max. hold time

Sold in 5 packs (V at end of part#) **Call for bulk pricing** PT in part# is for pigtail (axial lead fuses)

SUB-MINATURE (PICO) FAST ACTING FUSES

PART#:PFF(x)mA or A (Substitue amperage for x) Fast Acting/Sollid Matrix Sub-Minature Axial (Pico) Lead Fuses A high performance fast-acting currentlimiting surface mount fuse used in printed circuit board component protection applications.Electrical Specifications:63mA-20A 250V

Physical Specifications: Epoxy Coated Body; Nickel/Tin Plated Brass Caps Axial Lead Wire: Tin Plated Copper

Operating Temperature: -25°C ~ +125°CTime Characteristics:100% 4h min. hold time 200% 5s max. hold time **Agency Standards and Listings:**UL listed, CSA Certified; Sold in 5 packs (V at end of part#)

SUB-MINATURE (PICO) TIME DELAY FUSES

PART#:PFS(x)mA or A (Substitue amperage for x) Time Delay/Sollid Matrix Sub-Minature Axial (Pico) Lead Fuses: A high performance time delay current-limiting surface mount fuse used in printed circuit board component protection applications.Electrical Specifications:100mA-7A 250V ; Operating Temperature: -25°C ~+125°CPhysical Specifications: Epoxy Coated Body; Nickel/Tin Plated Brass Caps;Axial Lead Wire:Tin Plated Copper; Agency Standards: UL listed, CSA Certified Time Characteristics:100% 4h min. hold time 200% 60s max.hold time, 300% 0.2-3s max hold time 800%0.0025-0.1s max hold time; Sold in 5 packs (V at end of part#)

MICRO FAST ACTING RADIAL LEAD FUSES

PART#:MFF(x)mA or A (Substitue amperage for x) Fast Acting Radial Lead Micro Fuse Short Leaded -Cylindrical Electrical Specifications: 50mA-10A Physical Specifications (Materials):Black or Reddish Brown Thermoplastic Body, UL 94-V0; Tin-Lead Plated Alloy Pins

Time Characteristics: Rated Current: 50mA~ 5A 100% MIN 4h; 200% MAX 60s Agency Standards & Listings: UL Listed 50mA-6.3A; CSA Certified 50mA - 6.3A Interrupt Ratings: 50A @ 250 VAC; Operating Temperature: -55°C ~ +125°CShock:MIL-STD-202, Method 213, Test Condition 1(Saw tooth); Vibration:MIL-STD-202Method201(10-55Hz x 3axis/no load)Salt Spray:MIL-STD-202Method101,Test ConditionB (48hr) Insulation Resistance:MIL-STD-202, Method 302, Test Condition A (after opening) 10,000 Ohms Minimum Resistance to Solder Heat:MIL-STD-202, Method 210, Test Condition F(10sec @ 260°C) Thermal Shock: MIL-STD-202, Method 107, Test Condition B (-65°C to +125°C)

Soldering Conditions: Infrared Reflow: 260°C, 20s max; Wave Solder: 260°C, 10s max (MIL-STD-202, Method 210) Solderability: MIL-STD-202, Method 208; Sold in 5 packs (V at end of part#)

MICRO TIME DELAY RADIAL LEAD FUSES

PART#:MFS(x)mA or A (Substitue amperage for x) DESC: Time Delay Radial Lead Micro Fuse Short Leaded-Cylindrical Electrical Specifications: 50mA-10A Physical Specifications: (Materials):Black or Reddish Brown Thermoplastic Body,UL 94-V0;Tin-Lead Plated Alloy Pins Time Characteristics: Rated Current: 50mA~ 5A 100% MIN 4h; 200% MAX 60s Agency Standards & Listings: UL Listed 50mA-6.3A ;CSA Certified 50mA - 6.3A Interrupt Ratings:35A or10Xrated current whichever is greater 250 VAC/VDC; Operating Temperature: -55°C ~ +125°C Shock:MIL-STD-202Method213,Test Condition1(Saw tooth);Vibration:MIL-STD-202Method20(10-55Hz x 3axis/no load) Salt Spray:MIL-STD-202, Method 101,Test Condition B (48hr) Insulation Resistance:MIL-STD-202, Method 302, Test Condition A (after opening) 10,000 Ohms Minimum Resistance to Solder Heat: MIL-STD-202, Method 210, Test Condition F(10sec @ 260°C) Thermal Shock: MIL-STD-202, Method 107, Test Condition B (-65°C to +125°C) Soldering Conditions: Infrared Reflow: 260°C, 20s max; Wave Solder: 260°C, 10s max (MIL-STD-202, Method 210) Solderability: MIL-STD-202, Method 208; Sold in 5 packs (V at end of part#)









FAST ACTING SQUARE CERAMIC SURFACE MOUNT FUSES

PART#:SMCF(x)mA or A(Sub amperage for x) **DESC:** A high performance fast-acting

current-limiting surface mount fuse used in printed circuit board component protecting applications. Electrical Specifications: 62mA-15A. Physical Specifications: Body: Ceramic; Terminations: Gold Plated Brass Caps Time Characteristics: 100%4h min.hold time 62mA-15A 200% 5smax hold time 62mA-10A; 60s max hold time12A-15A Agency Standards&Listings:UL Recognized 62mA-15A;CSA Certified 62mA-15A

Operating Temperature: -55°C to +125°C **Interrupt Ratings:** 62mA ~ 8A: 50 amperes at 125V AC/DC; 300 amperes at 32V DC; 10A :35 amperes at 125V DC; 50 amperes at 125V DC;300 amperes at 32V DC 12A ~ 15A: 50 amperes at 65V AC/DC;300 amperes at 24V DC **Shock:** MIL-STD-202, Method 213, Test Condition 1 (100G's peak for 6 milliseconds) **Vibration:**MIL-STD-202, Method 201, (10-55 Hz,0.06 inch total excursion) **Salt Spray:**MIL-STD-202, Method 101, Test Condition B(48 Hrs)**Insulation Resistance:**MIL-STD-202, Method 302, Test Condition (After Opening) 10,000 ohms minimum **Resistance to Solder Heat:**MIL-STD-202, Method 210, Test Condition F(20 Sec, at 260°C) **Thermal Shock:** MIL-STD-202, Method 107, Test Condition B(-65°C to + 125°C) Sold in 5 packs (V at end of part#)

TIME DELAY SQUARE CERAMIC SURFACE MOUNT FUSES

PART#:SMCS(x)mA or A(Sub amperage for x) **DESC:**A high performance time delay current-limiting surface mount fuse used in printed circuit board component protecting applications: **Electrical Specifications:**200mA-7A. **Physical Specifications:** Body: Ceramic; **Terminations:** Gold Plated Brass Caps **Time Characteristics:** 100% 4h min. hold time; 200% 1s min.hold time 60s max hold time; 300%

0.2s min. hold time 3s max hold time 800% .02s min hold time .1s max hold time **Agency Standards&Listings:**UL Recognized 62mA-15A;CSA Certified 62mA-15A**Operating Temperature:** -55°C to +125°C **Interrupt Ratings:** 62mA ~ 8A: 50 amperes at 125V AC/DC; 300 amperes at 32V DC 10A :35 amperes at 125V DC; 50 amperes at 125V DC; 300 amperes at 32V DC; 12A ~ 15A: 50 amperes at 65V AC/DC300 amperes at 24V DC **Shock:** MIL-STD-202, Method 213, Test Condition 1(100G's peak for 6 milliseconds) **Vibration:**MIL-STD-202, Method 201, (10-55 Hz,0.06 inch total excursion) **Salt Spray:**MIL-STD-202, Method 101,

Test Condition B(48 Hrs) **Insulation Resistance:**MIL-STD-202, Method 302,Test Condition (After Opening) 10,000 ohms minimum **Resistance to Solder Heat:**MIL-STD-202,Method 210,Test Condition F(20 Sec,at 260°C) **Thermal Shock:**MIL-STD-202, Method 107,Test Condition B(-65°C to + 125°C) Sold in 5 packs (V at end of part#)

TYPE RS30 RESETTABLE FUSES (PTC's) RADIAL LEADED

PART#:RS30-(x)(Sub 090-900for 900mA to 9A) Application: Wide variety of electrical equipment Product Features:Low resistance, High hold current, Solid state Radial leaded product ideal for up to 30V; Operation Current: 900mA ~ 9A; Maximum Voltage:30V Insulating Coating: Flame retardant epoxy,meet UL-94V-0 requirement.
Physical Specifications: Lead Material: RS30-090 ~ RS30-250: Tin plated copper, 24 AWG; RS30-300 ~ RS30-900: Tin plated copper, 20 AWG.
Soldering Characteristics: MIL-STD-202, method 208E.
Temperature Range: -40°Cto 85°C; Agency&ListingsStandards:UL, RoHS Compliant Sold in Single Blister Package

TYPE RS60 RESETTABLE FUSES (PTC's) RADIAL LEADED

PART#:RS60-(x)(Sub 005-090for 50mA to 900mA) Application: Wide variety of electrical equipmentProduct Features:Low resistance, High hold current, Solid state Radial leaded product ideal for up to 60V Operation Current: 50mA ~3.75A;
Maximum Voltage: 60V Insulating Coating: Flame retardant epoxy, meet UL-94V-0 requirement. Physical Specifications: Lead Material: RS60-005 ~ RS30-090:Tin plated copper, 24 AWG; RS60-110 ~ RS30-375: Tin plated copper, 20 AWG.

Soldering Characteristics: MIL-STD-202, method 208E.Temperature Range: -40°Cto 85°C; Agency&ListingsStandards:UL, RoHS Compliant

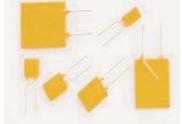
Sold in Single Blister Package

TELECOM FUSES

PART#:GMT-(x)(Sub amperage for x) DESC:Telecom Indicating Fuse Electrical Specifications:

Breaking Capacity: 0.5A-15A IR 100A-125V Thermoplastic, UL94V0 Flammability Rating **Terminals:** Tin Plated Beryllium Copper







FLUORESCENT LIGHT FIXTURE FUSES (GLR'S)

PART#:GLR-(x) (Sub amperage for x) DESC:Fast-Acting, Non-Rejection Style Fuse Ampere Rating: ܽÁ¤-15 Amperes Voltage Rating: 300 Volts AC or less Interrupting Rating: 10,000 Amperes Agency Information:

UL Listed, Std. 248-14 ܽÁ¤-15A/300 Vac, Guide JDYX, File E19180 CSA Certified, C22.2 No. 248.14, 0-10A/300 Vac Class 1422-01, File 53787





TELECOM FUSEHOLDER

PART# HPT:

Fuseholders for Indicating Telecom Fuses: UL 94VO Thermoplastic Construction **Terminals:** Tin Plated Beryllium Copper

Used in telecom, computer and control circuits applications with visual spring and alarm circuitry indication. Color-coded flags determine fuse ampere ratings. **Electrical Specifications:** 125VAC / 60VDC Sold in individual blister packs

PCB MOUNTED FUSE HOLDERS

PART# PHC-01

Fuse Style: 5mm x 20mm; Electrical Rating: 6.3A, 250VAC;

Operating Power: 2.5 W **Material:Frame and Cap:**Thermoplastic (UL Flame: 94V-0); **Terminals:** Nickel Plated Copper Alloy

Cap: Finger Grip / Screwdriver Slot Combo Bayonet Knob; Mounting: PCB mounting Panel Thickness: .031 Min / .177 Max [.08mm Min, 4.5mm Max]

Agency Standards and Listings: UL, CSA Sold in individual blister packages

PART# PVC-01 Fuse Style: 5mm x 20mm; Electrical Rating: 6.3A, 250VAC;

Operating Power: 2.5 W **Material:Frame and Cap:**Thermoplastic (UL Flame: 94V-0); **Terminals:** Nickel Plated Copper Alloy

Cap: Finger Grip / Screwdriver Slot Combo Bayonet Knob;

Mounting: PCB mounting **Panel Thickness:** .031 Min / .177 Max [.08mm Min, 4.5mm Max] **Agency Standards and Listings:**UL,CSA Sold in individual blister packages

PART# BMS Fuse Style: Micro Fuses; Electrical Rating: 6.3A, 250VAC; Operating Power: 1.6 W Material:Frame and Cap:Thermoplastic (UL Flame: 94V-0) Polyseter PCT; Terminals: Copper Alloy solderable tinned Cap: Finger Grip / Screwdriver Slot Combo Bayonet Knob; Mounting: PCB mounting Panel Thickness: .031 Min / .177 Max [.08mm Min, 4.5mm Max] Sold in individual blister packages

PANEL MOUNT FUSE HOLDERS

PART# PKA-01 Fuse Style: ¼" x 1¼" (6.3 x 32mm);Electrical Rating:10A, 250V AC;
Material Frame: Thermoplastic (UL Flame: 94V-0)
Cap: Knob type, screw type Nickel-plated copper alloy insert
Terminals: Nickel plated copper alloy, straight terminal
Mounting: By metal nut with white washer Agency Standards and Listings: UL, CSA
Sold in individual blister packs
PART# PMA-DB-05-Q1R Fuse Style: ¼" x 1¼" (6.3 x 32mm);
Electrical Rating: 15A, 250V AC; Material: Frame and Cap: PBT (UL flame: 94V-0)
Terminals: Tin-plated brass; Cap: Slotted Driver type, Bayonet type;
Mounting: by nutTerminal: Solder/Quick-Connect – 4.8mm/0.187"
Panel Thickness: 0.5 ~ 4.5mm Agency Standards and Listings: UL, CSA

PART# PMA-KS-01-SOS Fuse Style: ¼" x 1¼" (6.3 x 32mm); Electrical Rating: 10A, 250V AC; Material:Frame and Cap:Bakelite; Terminals: Nickel-plated copper alloy Cap: Knob type, Screw type; Mounting: by metal nut and white plastic washer Terminal: Solder 5.4mm/0.21" Panel Thickness: 0.5 ~ 4.5mm Agency Standards and Listings: UL, CSA Sold in individual blister packs

PART# PMA-KS-03-Q2S Fuse Style: ¼" x 1¼" (6.3 x 32mm);
Electrical Rating: 10A, 250V AC;Material:Frame and Cap:Phenolic (UL flame: 94V-1)
Terminals: Nickel-plated brass Cap:Finger-Grip Knob type, Bayonet type;
Mounting: by metal nut and white washer Terminal: Solder/Quick-Connect – 6.4mm/0.250"
Panel Thickness: 0.5 ~ 6.5mm Agency Standards and Listings: UL, CSA
Sold in individual blister packs

PART# PMC-DS-01-SOS Fuse Style: 5mm X 20mm; **Electrical Rating**: 10A, 250V AC; **Material: Body**:Nylon;

Terminals: Nickel-plated copper alloy; terminal, solder type, straight terminal **Cap**:Slotted Driver type, Screw type Nickel-plated copper alloy insert;

Mounting: Nylon hex nut-rear panel; **Terminal:** Solder tab - 4.00mm / 0.156" **Agency Standards and Listings:** UL, CSA Sold in individual blister packs















IN-LINE FUSE HOLDERS

PART# FORMAT (X=body color, ## = wire gauge, Z= wire color)

PART# LPA-01X-##Z Ratings: Fuse Type: 1/4" x 11/4" (6.3 x32mm); Electrical Rating: 20A 32VDCBody: Nylon / Polypropylene; Body color: Black or White; Contacts: Brass Wire Gauge: 12-18 AWG; Wire Color: Black, Red, Yellow; Wire Length: 4 inches *Sold in Individual Blister Packs or in bulk* **PART# LPA-02W-##R** Ratings: Fuse Type: 1/4" x 11/4" (6.3 x32mm); Electrical Rating: 30A 32VDC Body: Nylon/ With Glass Fiber; Body color: White only; Contacts: Brass Wire Size: 10-16 AWG; Wire Color: Red only: Wire Length: 4 inches*Sold in Individual Blister Packs or in bulk* **PART# LPA-03Y Ratings:** Fuse Type: 1/4" x 11/4" (6.3 x32mm); Electrical Rating: 30A 32VDCSplash Proof; Body: PVC; Body color: Yellow; Contacts: Brass No Wire *Sold in Individual Blister Packs or in bulk* **PART# LPA-04Y Ratings:** Fuse Type: 1/4" x 11/4" (6.3 x32mm); Electrical Rating: 30A 32VDC Splash Proof; Body:Nylon; Body color: Yellow; Contacts: BrassNo Wire, for use with 18 & 20AWG wire *Sold in Individual Blister Packs or in bulk*

PART# LPA-05W-##R (##= 12,14,or 16 AWG)

Ratings: Fuse Type: ¼" x 1¼" (6.3 x32mm); Electrical Rating: 30A 32VDC Body: Nylon; Body color: White Only; Contacts: BrassWire Size:10,12,14,or16 AWG; Wire Color: Red Only; Wire Length: 4 inches*Sold in Individual Blister Packs or in bulk* **PART# LPA-06W-16R Ratings:** Fuse Type: 1/4" x 11/4" (6.3 x32mm); Electrical Rating: 15A 32VDC Body: Nylon; Body color: White Only; Contacts: Brass Wire Size:10,12,14,or16 AWG; Wire Color:Red Only; Wire Length: 8 inches *Sold in Individual Blister Packs or in bulk*

PART# LPA-07B-##Z (##=10,12,14,16or18 AWG); Z= OR(Orange) or R (Red) Ratings: Fuse Type: ¼" x 1¼" (6.3 x32mm); Electrical Rating: 5-35A 32VDC Body: Bakelite; Body color: Black Only; Contacts: Brass Wire Size:10-18 AWG; Wire Color:10AWG Orange; 12,14,16,18 Red; Wire Length: 4 inches *Sold in Individual Blister Packs or in bulk*

PART# LPA-08B-##R (##=12,14,16or18 AWG)

Ratings: Fuse Type: ¼" x 1¼" (6.3 x32mm); Electrical Rating: 20A 32VDC Body: Polycarbonate; Body color: Black Only; Contacts: Brass Wire Size:12,14,16,18 AWG; Wire Color: Red Only; Wire Length: 6 inches *Sold in Individual Blister Packs or in bulk*

PART# LPA-09B-14R-N(N= FSO(SFE type) fuse size 9,14,or 20 Amps) Ratings: Fuse Type: FSO(SFE TYPE) Electrical Rating: 20A 250VDC Body: Bakelite; Body color: Black Only; Contacts: Brass, Tin/Nickel Plated Wire Size:14 AWG; Wire Color: Red Only; Wire Length: 4 inch *Sold in Individual Blister Packs or in bulk*

PART# LPA-10B-14R

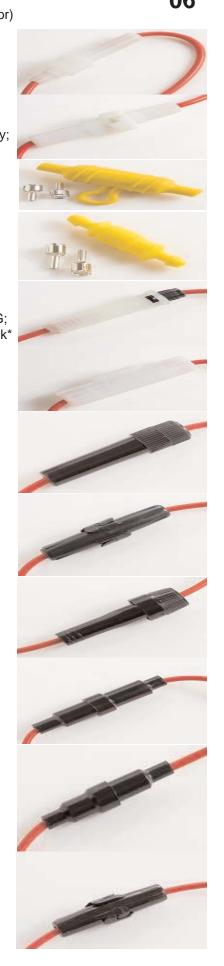
Ratings: Fuse Type: ¼" x 1¼" (6.3 x32mm); Electrical Rating: 20A 32VDC Body: Polycarbonate; Body color: Black Only; Contacts: Brass Wire Size: 10 AWG only; Wire Color: Red Only; Wire Length: 8 inches *Sold in Individual Blister Packs or in bulk*

PART# LPC-02B-16R

Ratings: Fuse Type: 5X20mm; Electrical Rating: 10A 32VDC Body: Bakelite; Body color: Black; Contacts: Brass Wire Size:16 AWG; Wire Color:Red; Wire Length: 13 inches *Sold in Individual Blister Packs or in bulk*

PART# LPC-08B-18R

Ratings: Fuse Type: 5X20mm; Electrical Rating: 10A 32VDC Body: Polycarbonate; Body color: Black; Contacts: Brass Wire Size:18 AWG; Wire Color:Red; Wire Length: 6 inches *Sold in Individual Blister Packs or in bulk*



PART# CNA-01-C For use with 1/4" Diameter Fuses; Without End Stops With Mounting Pins Electrical Specifications: 15A 250VAC Material: Spring Brass Finish: Tin Plated *Sold in 100 Packs*

PART# CNM-05-C For use with Mini Auto Blade Fuses Electrical Specifications: 15A 250VAC Material: Spring Bronze Finish: Bright Tin Plated Sold in 100 Packs

PART# CSA-01-C For use with 1/4" Diameter Fuses; With End Stops and Mounting Pins Electrical Specifications: 15A 250VAC Material: Spring Brass Finish: Tin Plated Sold in 100 Packs

PART# CSC-01-C

For use with 5mm X 20mm Diameter Fuses; With End Stops

Electrical Specifications: 10A 250VAC Material: Spring Brass, Phosfor Bronze or Beryllium Brass Finish: Tin Plated or *Sold in 100 Packs*

PART# CSC-03-C

For use with 5mm X 20mm Diameter Fuses; With End Stops

Electrical Specifications: 10A 250VAC Material: Spring Brass, Phosfor Bronze or Beryllium Brass; Finish: Tin Plated *Sold in 100 Packs*

PART# CSG-01-C

For use with 13/32" X 1-1/2 Fuses(5AG); With End Stops and Mounting Pins Electrical Specifications: 15A 250VAC Material: Spring Brass, Phosfor Bronze or Beryllium Brass;

Finish: Tin Plated Ear Type with Axial Directional Tags *Sold in 100 Packs*

PART# CNM-01-C

For use with Mini Auto Blade Fuses Electrical Specifications: 15A 250VAC Material: Phosphor Bronze Finish: Tin Plated *Sold in 100 Packs*

PART# CNR-01-C

For use with Standard Auto Blade Fuses Electrical Specifications: 15A 250VAC Material: Spring Bronze Finish: Bright Tin Plated Sold in 100 Packs

PART# CSA-06-C

For use with 1/4" Diameter Fuses; With End Stops

Electrical Specifications: 15A 250VAC Material: Phosfor Bronze Finish: Tin Plated

Sold in 100 Packs

PART# CSC-02-C

For use with 5mm X 20mm Diameter Fuses; With End Stops Electrical Specifications: 10A 250VAC Material: Spring Brass, Phosfor Bronze or Beryllium Brass; Finish: Tin Plated Sold in 100 Packs

PART# CSC-05-C

For use with 5mm X 20mm Diameter Fuses; Ear Type With End Stops Electrical Specifications: 10A 250VAC Material: Phosfor Bronze; Finish: Tin Plated

Sold by Tape and Reel 100 Pieces PART# CSG-02-C

For use with 13/32" X 1-1/2 Fuses(5AG); With End Stops

Electrical Specifications: 15A 250VAC Material: Spring Brass, Phosfor Bronze or Beryllium Brass; **Finish:** Tin Plated Ear Type with Axial Directional Tags Sold in 100 Packs

FLUKE METER FUSES

PART# DMM-B-11 General Information: • Designed for multi-meters only. • Intended to carry 100% of rated current indefinitely. • Not intended for branch circuit protection.

Temperature Specifications: Maximum temperature 69°C in a 22°C ambient temperature when carrying 100% of rated current. Construction: Melamine Tube Nickel Plated Brass End Caps Voltage Rating: 1000 Volts AC/DC Interrupting Rating: DMM-B-11A – 20,000A, 1000 VAC, power factor =.2; 20,000A, 1000 VDC, time constant =10ms.

Agency Approvals: UL Recognized 1000 VDC, File E19180

PART# DMM-B-11 General Information: • Designed for multi-meters only. • Intended to carry 100% of rated current indefinitely. • Not intended for branch circuit protection.

Temperature Specifications: Maximum temperature 69°C in a 22°C ambient temperature when carrying 100% of rated current. Construction: Melamine Tube Nickel Plated Brass End Caps

Voltage Rating: 1000 Volts AC/DC Interrupting Rating: DMM-B-44/100-10,000A, 1000 VAC, unity power factor and10,000A, 1000 VDC with time constant of 2.2ms. Minimum interrupt 400% of rated current at rated voltage. Agency Approvals: UL Recognized 1000 VDC, File E19180









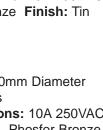








07







INDUSTRIAL FUSES

DESCRIPTION: 13/32" X 1 1/2" MIDGET FAST ACTING FUSES. **ATM** fuses are rated 600 volts AC and DC, with a 100kA interrupting rating. These ratings give the ATM a wide range of applications not covered by other midget fuses. APPROVALS: UL Listed to Standard 248-14 (1/10 to 30A) File E33925 DC listed to UL Standard 248-14 (1/10 to 30A) CSA Certified to Standard C22.2 No. 248.14 (1/10 to 30A) **APPLICATIONS:**Supplemental protection of a wide variety of circuits up to 600VAC & 600VDC with 100kAI.R. RATINGS: AC:1/10 to 30A 600VAC, 100kA I.R.; 35 to 50A 600VAC, 10kA I.R. DC: 1/10 to 30A 600VDC, 100kA I.R. **Sold in individual blister packs or in bulk 10 packs** DESCRIPTION: 13/32" X 1 1/2" MIDGET TIME DELAY FUSES. ATQ midget time-delay fuses are rated a full 500 volts AC with 42 ampere ratings from 1/10 to 30A. They are an excellent choice for supplemental protection of circuits up to 30A where the available short circuit current does not exceed 10,000A. (Not for Branch Circuit Protection). APPROVALS: UL Listed to Standard 248-14 File E33925 CSA Certified to Standard C22.2 No. 248.14 APPLICATIONS: Supplemental protection of lighting, solenoid, motor, and transformer circuits RATINGS: AC: 1/10 to 30A 500VAC, 10kA I.R. **Sold in individual blister packs or in bulk 10 packs** DESCRIPTION: ATMR fuses, in the Class CC family, are the smallest dimension 600VAC/DC fuses suitable for branch circuit protection. The ATMR is a popular choice for economical protection of control circuits and control circuit transformers where available short circuit currents exceed 10,000 amperes. ATMR's rejection dimensions prevent substitution by lesser rated fuses. These fast acting fuses give current limiting protection to general circuits. APPROVALS: UL Listed to Standard 248-4 File E2137 CSA Certified to Standard C22.2 No. 248.4 DC Listed to ULStandard 248 APPLICATIONS: Control Circuits Lighting General Loads Branch Circuit Protection RATINGS: AC: 1/10 to 30A 600VAC, 200kA I.R. DC: 1/10 to 30A 600VDC, 100kA I.R. FEATURES: Rejection style design prevents replacement errors when used with recommended fuse blocks. Versatile design for individual component and branch circuit protection. HIGHLIGHTS: Fast Acting, Very Current-Limiting ** Sold in individual blister packs or in bulk 10 packs** **DESCRIPTION:** TIME DELAY/ CLASS CC FUSES ATQR small-dimension fuses feature time delay characteristics ideally suited for the high in rush currents of control transformers, solenoids, and similar inductive loads. ATQR fuses provide superior protection for the branch circuits of electrical distribution systems. APPROVALS: UL Listed to Standard 248-4, DC Listed to UL Standard 248 CSA Certified to Standard C22.2 No. 248.4 APPLICATIONS: Control TransformersSolenoids Inductive Loads Lighting, Heating & General-purpose Loads RATINGS: AC: 1/10 to 30A 600VAC, 200kA I.R. DC: 1/10 to 30A300VDC, 100kA I.R. **Sold in individual blister packs or in bulk 10 packs** **DESCRIPTION: TIME DELAY/ CLASS CC FUSES** ATDR small-dimension fuses can provide IEC Type 2 "no damage" protection to your facility's increasingly sensitive branch circuit components and small motors - minimizing the risk of fault-related damage. ATDR Class CC fuses deliver the best time delay characteristics in their class with excellent cycling ability for small motor loads. APPROVALS:UL Listed to Standard 248-4 File 2137; CSA Certified to Standard C22.2 No.248.4; DC Listed to UL Standard 248 APPLICATIONS: Small Motors, Contactors Lighting, Heating & General Loads Branch Circuit Protector RATINGS: AC: 1/4 to 30A 600VAC, 200kA I.R. DC: 1/4 to 30A 300VDC, 100kA I.R. **Sold in individual blister packs or in bulk 10 packs** DESCRIPTION:13/32" X 1 1/2" MIDGET TIME DELAY FUSES. TRM Series / 250VAC / Time Delay Tri-onic TRM time-delay midget fuses are rated 250 volts AC and are offered in 36 ampere ratings from 1/10A to 30A. They have 12 seconds time delay at 200% rating to provide supplemental protection of small motors, small transformers and other high inrush loads, plus many other 250 volt applications. (Not for Branch Circuit Protection). APPROVALS: UL Listed to Standard 248-4 File 2137; CSA Certified to Standard C22.2 No.248.4; RoHS Compliant. APPLICATIONS: Small Motors, Small Transformers, Lighting Circuits, Control Circuits RATINGS: AC: 250VAC, 10kA I.R. **Sold in individual blister packs or in bulk 10 packs** DESCRIPTION: AG Series / Class G Amp-Trap AG fuses fit right in a wide variety of industrial applications - The Amp-trap AG fuse series is a complete line of Class G fuses. With time delay (above 5A rating). AG fuses safely fit a wide variety of applications. Class G fuses are made in four physical sizes and provide good branch-circuit protection for lighting, heating, and appliance circuits. APPROVALS: UL Listed to Standard 248-5; CSA Certified to Standard C22.2 No. 248.5; RoHS Compliant APPLICATIONS: Lighting, Heating(Except in Canada where fuse must be "P" or "D" type).

Appliances, Branch Circuits **RATINGS:** AC: 600VAC, 100kA I.R. (1/2 to 20A), 480VAC, 100kA I.R. (25 to 60A)**FEATURES:**Four unique sizes from 1-60 amperes do not allow inter-changeability with other fuse classes;Fiberglass bodies provide dimensional stability in harsh industrial settings

HIGHLIGHTS: Current-Limiting, Time Delay (above 5A)**Sold in individual blister packs or bulk 10packs**





INDUSTRIAL MIDGET FUSES

DESCRIPTION: A3T & A6T Series / Class T. These small dimension fuses are the right fit for a tight fit Fast acting A3T & A6T Class T fuses combine two highly desirable features - high current limitation and a small physical size. Their unique dimensions prevent the substitution of other fuses with lower voltage ratings or current limiting capability. These fuses have glass melamine bodies for superior dimensional stability and catalog numbers stamped into the blades for permanent identification.

APPROVALS:UL Listed to Standard 248-15; CSA Certified to Standard C22.2 No. 248.1 DC Tested and Listed to UL Standard 198L

APPLICATIONS:Loadcenters, Panelboards, Switchboards, Circuit Breakers, Metering Centers **RATINGS:**A3T AC:1 to 1200A 300VAC, 200kA I.R. DC: 1 to 1200A 160VDC, 50kA I.R. **A6T** AC: 1 to 800A 600VAC, 200kA I.R. DC: 1 to 800A 300VDC, 100kA I.R.

FEAUTURES: Extremely current limiting for low peak let-thru current; Unique dimensions prevent replacement by other fuse classes; Blade-stamped catalog numbers for permanent identification; Small physical size for greater design flexibility

HIGHLIGHTS:Fast Acting; Extremely current limiting;Small physical size; DC Ratings **Sold in individual blister packs or in bulk 10 packs**

DESCRIPTION: AJT Series / Class J / Time Delay

Amp-trap 2000[®] SmartSpot[®] AJT fuses now provide a visual open fuse indicator. With advanced material technology added to the existing product line the AJT fuse provides IEC Type "2" (No Damage) protection to main, feeder, and branch circuits, for all types of loads — yet, they require only half the mounting space needed for 600VAC Class RK fuses. AJT's time delay characteristics for handling typical in-rush currents, its current limiting ability.

APPROVALS:AJT(1-600): UL Listed to Standard 248-8 File E2137, DC Listed to UL Standard 248 CSA Certified toStandard C22.2 No. 248.8 IEC 269-2-1;

AJT (70-600) EI:UL Listed to File E60314DC Tested to UL Standard 248; RoHS Compliant APPLICATIONS:Motor Circuits; Mains Feeders; Branch Circuits; Lighting, Heating & General Loads; Transformers;Control Panels; Circuit Breaker Back-up; Bus Duct; Load Centers

RATINGS: AC: 600VAC, 200kA I.R. AC: 500VDC, 100kA I.R.

FEATURES:Solid State SmartSpot Indicator(not available 1A-7A), Time delay for motor starting and transformer in rush, 300kA interrupting rating - self-certified, UL witnessed tests, Extremely current limiting for low peak let-thru current, Most current limiting UL class fuse, Small footprint requires less mounting space and allows smaller, more economical fuse blocks, Easy 2-to-1 selectivity for prevention of nuisance shut-downs, Unique Class J dimensions prevent replacement errors High-visibility orange label gives instant recognition, Metal embossed date and catalog number for traceability and lasting identification, Fiberglass body provides dimensional stability in harsh industrial settings, High grade silica filler ensures fast arc quenching,Optional EI Indicator/Switch mount available

Sold in individual blister packs or in bulk 10packs

DESCRIPTION: TR & TRS Series / Class RK5 / Time Delay.

With advanced material technology added to the existing product, the TR and TRS current-limiting time-delay fuses are engineered for overcurrent protection of motors and transformers, service entrance equipment, feeder and branch circuits.Tri-Onic fuse's proven time-delay characteristic safely handles harmless starting currents and inrush currents associated with today's motors and transformers.Now available with optionalSmartSpot® blown fuse indication technology.

APPROVALS: UL Listed to Standard 248-12 File E2137; CSA Certified to Standard C22.2No. 248.12 DC Listed to UL Standard 248 TRS only

APPLICATIONS:Motor Circuits, Mains, Feeders, Branch Circuits, Transformers, Service Entrance Equipment, General-purpose Protection

RATINGS:

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

TRS AC: 1/10 to 600A, 600VAC, 200kA I.R.

DC: 1/10 to 12A, 600VDC, 20kA I.R.15 to 60A, 300VDC, 20kA I.R. 70 to 600A, 600VDC, 20kA I.R. FEAUTURES: Optional Solid State SmartSpot Indicator, Time delay for motor start-ups and transformer inrush currents without nuisance opening, Current limiting for low peak let-thru current, Rejection-style design prevents replacement errors (when used with recommended fuse blocks),Easy-to-read label for quick recognition and replacement, Metal-embossed date and catalog number for traceability and lasting identification, Fiberglass body provides dimensional stability in harsh industrial settings, High-grade silica filler ensures fast arc quenching and high current limitation

HIGHLIGHTS:Time Delay, Current Limiting, AC & DC Rated **Sold in individual blister packs or in bulk 10 packs**

OTHER TYPES OF INUSTRIAL MIDGET FUSES AVAILABLE BY SPECIAL ORDER FUSE HOLDERS AVAILABLE FOR INDUSTRIAL FUSES BY SPECIAL ORDER ***PLEASE CALL FOR SPECIFICATIONS, PRICING, AND LEAD TIMES***







AUTOMOTIVE FUSE PRODUCTS

1/4" X 5/8" GLASS FAST ACTING FUSES (1AG)

Fast Acting/Glass Construction For Automotive Circuits Product Size: Ø6.3x15.9mm (Ø1/4"x 5/8") Ampere Rating: 1A~30A; Voltage Rating: 250V and less Electrical Characteristics: 135% - 1 hour. Maximum 200% - 5 seconds, Maximum Agency Standards and Listings: 63mA~3.5A, 250V Sold as 5 packs (V at end of part number)

13/32" X 1-1/2" GLASS FAST ACTING FUSES (5AG)WITH NICKEL END CAPS

Fast Acting/Glass Construction For Automotive Circuits Product Size: 13/32" x 1-1/2" Ampere Rating: 5A~100A; Voltage Rating: 32VAC Electrical Characteristics: 5~100A 100% - 4hr Minimum, 5~100A 135%-1hr Maximum, 5~30A 200% - 120secs. Maximum. Interupt Rating: 1000A. 32VDC Specifications: according to UL 248-1, 14

Sold as 5 packs (V at end of part#)

13/32" X 1-1/2" GLASS FAST ACTING FUSES (5AG)WITH GOLD END CAPS

Fast Acting/Glass Construction For Automotive Circuits Product Size: 13/32" x 1-1/2" Ampere Rating: 5A~100A; Voltage Rating: 32VAC Electrical Characteristics: 5~100A 100% - 4hr Minimum 5~100A 135%-1hr Maximum 5~30A 200% - 120secs. Maximum Interupt Rating:1000A, 32VDC Agency Standards and Listings: UL Specifications according to UL 248-1,14 Sold as 5 packs (V at end of part#)

1/4" X 7/8" GLASS FAST ACTING FUSES (7AG)

Fast Acting/Glass Construction For Automotive Circuits Product Size: 1/4" X 7/8" Ampere Rating: 1A~30A; Voltage Rating: 250VAC and less Electrical Characteristics: 135% - 1 hour. Maximum, 200% - 5 seconds, Maximum Agency Standards and Listings: UL, CSA Sold as 5 packs (V at end of part#)

1/4" X 1" GLASS FAST ACTING FUSES (8AG)

Fast Acting/Glass Construction For Automotive Circuits Product Size: Ø6.3x25.4mm (Ø1/4"x 1") Ampere Rating: 63mA~30A; Voltage Rating: 250V and less Electrical Characteristics: 135% - 1 hour. Maximum 200% - 5 seconds, Maximum Agency Standards and Listings: UL, CSA Sold as 5 packs (V at end of part#)

FSO GLASS FAST ACTING FUSES (SFE TYPE)

Fast Acting/Glass Construction For Automotive Circuits FSO Series General Info:For Automotive Circuits, Visual indication glass body, SAE specifications Size varies with rating to prevent over-fusing, For use with In-Line holders and ¼" clips. Product Size: Ø6.3x25.4mm (Ø1/4"x1"),

Ampere Rating: 4A, 6A, 7.5A, 9A, 14A, 20A, 30A, Voltage Rating: 32VDC and less Agency Standards and Listings: UL

Sold as 5 packs (V at end of part#)

APG TORPEDO SHAPED EUROPEAN AUTOMOTIVE FUSES

Cartridge Fuse Links - Color Coded Torpedo Shaped -For European automotive circuits. Electrical Specifications: Voltage: 32V DC Amperage: 5A, 8A, 16A, 25A, 30A Body: Bakelite, Terminals: Spring Brass **Time Characteristics:** 150% <=1hr hold time, 250%<=1min. hold time Sold as 5 packs (V at end of part#) ***Ask about our assortment kit(PART# APGKIT)***

PART#	AMPS	COLOR
APG5AV	5A	YELLOW
APG8AV	8A	WHITE
APG16AV	16A	RED
APG25AV	25A	BLUE
APG30AV	30A	GREEN









10



LOW PROFILE MINI AUTOMOTIVE BLADE FUSES

Fast Acting/Blade Mounting ABL Series Low Profile version of the Miniature Automotive Blade fuse. A cost-effective miniature automotive fuse for use in automotive, battery and general DC applications. **Specifications: Voltage:** 32V DC **Amperage:** 2A, 3A, 4A, 5A, 7.5A, 10A, 15A, 20A, 25A, 30A **Body:** Polycarbonate **Terminals**: Zinc Alloy **Interrupt Ratings:** 1000A @ 32VDC **Standards:** According to JASO Standard SpecificationsSold as 5 packs (V at end of part#)



PART#	AMPS	VOLTS	COLOR	PART#	AMPS	VOLTS	COLOR
ABL2AV	2A	32	GRAY	ABL10AV	10A	32	RED
ABL3AV	ЗA	32	VIOLET	ABL15AV	15A	32	BLUE
ABL4AV	4A	32	PINK	ABL20AV	20A	32	YELLOW
ABL5AV	5A	32	TAN	ABL25AV	25A	32	NATURAL
ABL7.5AV	7.5A	32	BROWN	ABL30AV	30A	32	GREEN

MINI AUTOMOTIVE BLADE FUSES

Fast Acting/Blade Mounting; ABM Series . A cost-effective miniature automotive fuse for use in automotive, battery and general DC applications. **Specifications:Voltage:**32V DC **Amperage:** 2A, 3A, 4A, 5A, 7.5A, 10A, 15A, 20A, 25A, 30A **Body:**Thermalplastic PC, **Terminals:** Zinc Alloy, **Design Standards:** SAE J2077 **Standards:** According to ISO 8820 Standard Specifications Sold as 5 packs (V at end of part#) ***Ask about our assortment kit(PART# **ABMKIT80**)***

PART#	AMPS	VOLTS	COLOR	PART#	AMPS	VOLTS	COLOR
ABM2AV	2A	32	GRAY	ABM10AV	10A	32	RED
ABM3AV	ЗA	32	VIOLET	ABM15AV	15A	32	BLUE
ABM4AV	4A	32	PINK	ABM20AV	20A	32	YELLOW
ABM5AV	5A	32	TAN	ABM25AV	25A	32	NATURAL
ABM7.5AV	7.5A	32	BROWN	ABM30AV	30A	32	GREEN

STANDARD SIZE AUTOMOTIVE BLADE FUSES

Fast Acting/Blade Mounting ABS Series: A cost-effective standard automotive fuse for use in automotive, battery and general DC applications. **Specifications:Voltage:**32V DC **Amperage:**1A, 2A, 3A, 4A, 5A, 7.5A, 10A, 15A, 20A, 25A, 30A, 40A **Body:** Thermalplastic PC, **Terminals:** Zinc Alloy, **Design Standards** SAE J1284 **Standards:** According to ISO 8820 **Standard Specifications**Sold as 5 packs (V at end of part#)

*Ask about our assortment kits(PART# ABSKIT80, ABSKIT160)***

		•		,			
PART#	AMPS	VOLTS	COLOR	PART#	AMPS	VOLTS	COLOR
ABS1AV	1A	32	BLACK	ABS10AV	10A	32	RED
ABS2AV	2A	32	GRAY	ABS15AV	15A	32	BLUE
ABS3AV	ЗA	32	VIOLET	ABS20AV	20A	32	YELLOW
ABS4AV	4A	32	PINK	ABS25AV	25A	32	CLEAR
ABS5AV	5A	32	TAN	ABS30AV	30A	32	GREEN
ABS7.5AV	7.5A	32	BROWN	ABS40AV	40A	32	ORANGE

LARGE SIZE AUTOMOTIVE BLADE FUSES

Fast Acting/Blade Mounting ABX Series: A cost-effective maxi automotive fuse for use in automotive, battery and general DC applications. Specifications:Voltage:32V DC Amperage: 20A, 30A, 40A, 50A, 60A, 70A, 80A, 100A, 120A Body: Thermalplastic PC, Terminals: Zinc Alloy Standards: According to ISO 8820 Standard Specifications Sold as 5 packs (V at end of part#) **Call for bulk pricing**

PART#	AMPS	VOLTS	COLOR	PART#	AMPS	VOLTS	COLOR
ABX20AV	20A	32	YELLOW	ABX70AV	70A	32	TAN
ABX30AV	30A	32	GREEN	ABX80AV	80A	32	CLEAR
ABX40AV	40A	32	AMBER	ABX100AV	100A	32	VIOLET
ABX50AV	50A	32	RED	ABX120AV	120A	32	PINK
ABX60AV	60A	32	BLUE				

IN-LINE FUSEHOLDERS FOR AUTOMOTIVE BLADE FUSES

PART# LPM-01B-##Z (Sub Wire Gauge for ##, Wire color for Z (B=Black,OR Orange, R=Red, Y=Yellow) Fuse Type: Mini Auto Blade – ABM,
Body: Black PVC with Splash Proof Cap, Contacts: Brass, Electrical Rating: 30A 32VDC
Wire Gauge:12,14,16,18 AWG, Wire Color: Orange 12AWG, Black or Red 14,16AWG, Red 18AWG Wire Length: 4 inches *Sold in blister packs or bulk*

PART# LPM-04B-I-16R Fuse Type: Mini Auto Blade – ABM, With LEDWarning when openedBody: Black PVC with Water Proof Cap, Contacts: Tin Plated Brass Electrical Rating:15A 24VDC Wire Gauge:16 AWG, Wire Color: Red, Wire Length: 4 inches *Sold in blister packs or bulk*

PART# LPM-08 Fuse Type: Mini Auto Blade – ABM,"Add-on" Automotive Fuse Holder, Body: PVC Contacts: Tin Plated Brass Electrical Rating: 30A 32VDC Wire Gauge:16 AWG, Wire Color: Red, Wire Length: 4 inches *Sold in blister packs or bulk*

PART# LPR-01X-##Z (Sub Body Color B=Black, Y=Yellow for X; Wire Gauge for ##; Wire color for Z (B=Black,OR Orange, R=Red, Y=Yellow) **Fuse Type:** Standard Size Auto Blade Fuse– ABS, **Body:** PVC, Black for 12,16awg Yellow for 16awg only **Contacts:** Brass **Electrical Rating:** 30A 32VDC **Wire Gauge:**12 or 16 AWG, **Wire Color:** 12awg Orange, Red or Yellow, 16awg Black only,**Wire Length:** 4 inches *Sold in blister packs or bulk* **PART# LPR-02B-##Z** (Sub Wire Gauge for ##, Wire color for Z (B=Black,OR Orange,

R=Red, Y=Yellow)**Fuse Type:** Standard Size Auto Blade Fuse– ABS, **Body:** PVC Black only, Splash Proof Cap, **Contacts:** Brass **Electrical Rating:** 30A 32VDC **Wire Gauge:**12,14, or 16 AWG, **Wire Color:** 12awg Orange or Yellow, 14awg Red, 16awg Black **Wire Length:** 4 inches *Sold in blister packs or bulk*

PART# LPR-03X-##R(Sub Body Color B=Black, R=Red for X; Wire Gauge for ## **Fuse Type:** Standard Size Auto Blade Fuse– ABS,

Body: PVC Black only 16awg, Red 10,12,16awg; Splash Proof Cap Contacts: Brass Electrical Rating: 30A 32VDC Wire Gauge:10,12,16 AWG Wire Color: Red Only Wire Length: 12 inches end to end *Sold in blister packs or bulk* PART# LPR-04B-I-16R FuseType: Standard Size Auto Blade – ABS, With LED Warning when opened Body: Black PVC with Water Proof Cap Contacts: Tin Plated Brass Electrical Rating: 15A 24VDC Wire Gauge:16 AWG Wire Color: Red Wire Length: 4 inches *Sold in blister packs or bulk*

PART# LPR-08 Fuse Type: Standard Auto Blade – ABS,"Add-on" Automotive Fuse Holder, **Body:** PVC **Contacts:** Tin Plated Brass, **Electrical Rating:** 30A 32VDC **Wire Gauge:**16 AWG, Wire Color: Red, Wire Length 4 inches *Sold in blister packs or bulk*

PART# LPS-01B-16R Fuse Type: Low Profile Mini Auto Blade – ABL,
Body: Black PVC with Splash Proof Cap, Contacts: Brass,
Electrical Rating: 30A 32VDC Wire Gauge: 16AWG
Wire Color: Red Wire Length: 5 inches *Sold in blister packs or bulk*

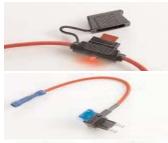
PART# LPS-08 Fuse Type: Low Profile Mini Auto Blade – ABL,"Add-on" Automotive Fuse Holder, Body: PVC Contacts: Tin Plated Brass, Electrical Rating: 30A 32VDC Wire Gauge:16 AWG, Wire Color: Red, Wire Length 5 inches *Sold in blister packs or bulk*

PART# LPX-01B-6B Fuse Type: Maxi Size Auto Blade Fuse- ABX,
Body: Black PVC, Splash Proof Cap Contacts: Brass
Electrical Rating: 100A 32VDC
Wire Gauge: 6 AWG Wire Color: Black Wire Length: 6 inches
Sold in blister packs or bulk

PART# LPX-04B-I-6R

FuseType: Maxi Size Auto Blade – ABX, With LED Warning when opened
Body: Black PVC with Water Proof Cap
Contacts: Tin Plated Brass
Electrical Rating: 15A 24VDC
Wire Gauge: 6 AWG Wire Color: Red Wire Length: 4 inches
Sold in blister packs or bulk



















AUTOMOTIVE/MARINE LIMITERS

Fast Acting/Open Link Design: ANE Series

A cost-effective fuse for use in high power DC, forklift, marine and other large battery application. Terminals are gold plated to prevent corrosion to provide superior contact Voltage Rating: 250 VAC, 32 VDC

Amperage Rating: 35A, 40A, 50A, 60A, 80A, 100A,

125A, 130A, 150A, 175A, 180A, 200A, 225A, 250A, 275A, 300A, 325A, 350A, 400A Interrupt Ratings:1000A @ 32VDC, 1500A @ 250VAC

Construction: Body Material: Bakelite Terminals: Gold-plated Copper

Recommended Mounting: Fuse Block BLC-09 to 200A, Fuse Block BLC-209 to 400A *Sold in blister packs or bulk*

Fast Acting/Open Link Design: ANF Series

A cost-effective fuse for use in high power DC, forklift, marine and other large battery application. Terminals are gold plated to prevent corrosion to provide superior contact Voltage Rating: 250 VAC, 32 VDC;

Amperage Rating: 35A, 40A, 50A, 60A, 80A, 100A,

125A, 130A, 150A, 175A, 180A, 200A, 225A, 250A, 275A, 300A, 325A, 350A, 400A Interrupt Ratings:1000A @ 32VDC, 1500A @ 250VAC

Construction:Body Material: Fiberglass(FR4) Terminals: Gold-plated Copper Recommended Mounting: Fuse Block BLC-09 to 200A, Fuse Block BLC-209 to 400A *Sold in blister packs or bulk*

Fast Acting Automotive: MEGA® [1] Limiter Fuse 2" (50.8mm) Center to Center Bolt-on Interrupting Rating: (IR): 250A @ 32VDC Operating Temperature: -40°C ~ 125°C *Sold in blister packs or bulk* 1] MEGA® is a registered Trademark of Littlefuse

PART#	AMPS	VOLTS	COLOR	NOMINAL COLD RESISTANCE	MINIMUM MELTING		10
MGGA100	100	32	YELLOW	0.55	31,100	TIME CH/	ARACTERISTICS
MGGA125	125	32	GREEN	0.43	57,800	%OF RATED CURRENT	CLEARING TIME
MGGA150	150	32	ORANGE	0.35	100.000	100%	MIN 4HRS
						135%	MIN 120SEC
MGGA175	175	32	WHITE/CLEAR	0.27	168,000		MAX1800SEC
11001000			5=			200%	MIN 1SEC.
MGGA200	200	32	BLUE	0.26	204,000		MAX15 SEC
MGGA225	225	32	TAN	0.00	257.000	350%	MIN 0.3SEC
IVIGGA225	225	32	IAN	0.23	257,000		MAX 5SECS
MGGA250	250	32	PINK	0.19	389,000	600%	MIN 0.1SEC
	200	52		0.19	563,000		MAX 1SEC.
En al Antin a A	4	N UDI		OIL (00 ·····) (

Fast Acting Automotive: MIDI® [2] Limiter Fuse 2" (30mm) Center to Center Bolt-on Interrupting Rating: (IR): 1000A @ 32VDC **Operating Temperature:** -40°C ~ 125°C

VOLTS

Sold in blister packs or bulk

PART#

2] MIDI® is a registered Trademark of Littlefuse AMPS



TIME CHARACTERISTICS

%OF RATED	CLEARING
CURRENT	TIME
100%	MIN. 4HRS
250%	MAX. 300SECS

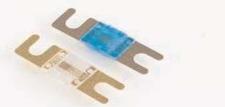


TIME CHARACTERISTICS

%OF RATED	CLEARING
CURRENT	TIME
100%	MIN. 4HRS
250%	MAX. 300SECS



00	%OF RATED CURRENT	CLEARING TIME
00	100%	MIN 4HRS
00	135%	MIN 120SECS MAX1800SECS
00	200%	MIN 1SEC. MAX15 SECS.
00	350%	MIN 0.3SECS. MAX 5SECS.
00	600%	MIN 0.1SECS MAX 1SEC.



MID30A	30A	32VDC	ORANGE	N/A	TIME CHARACTERISTICS		
MID40A	40A	32VDC	GREEN	1.30	%OF RATED CURRENT	CLEARING TIME	
MID50A	50A	32VDC	RED	1.04			
MID60A	60A	32VDC	YELLOW	0.87	100%	MIN 100HRS	
	70.4			0.70	110%	MIN 4HRS	
MID70A	70A	32VDC	BROWN	0.72	150%	MIN 60 SECS.	
MID80A	80A	32VDC	CLEAR	0.56		MAX15 SECS.	
MID100A	100A	32VDC	BLUE	0.45	200%	MIN 1 SEC. MAX 100SECS.	
MID125A	125A	32VDC	PINK	0.40	300%	MIN 0.1SECS	
MID150A	150A	32VDC	GRAY	0.33		MAX 1SEC.	
IVIID 150A	150A	32000	GRAI	0.33			

COLOR CODE | NOMINAL COLD

RESISTANCE

AUTOMOTIVE LINK FUSES

Fast Acting and cost-effective high-current automotive fuses for use in automotive, battery and general DC application.

TFLB Fuses - Automotive Link 13/16" Axial Male Term.-Long Lead.

Specifications: Voltage: 32VDC

Amperage: 20A, 30A, 40A, 50A, 60A, 70A, 80A, 100A, 120A, 140A.

Interrupting Rating: 5,000A @ 32 VAC

Agency Standards and Listings: JASO D612-4:2001.

Sold in blister packs or bulk

PART#	AMPS	HOUSING	PART#	AMPS	HOUSING	TIME (CHARACTERI	STICS
		COLOR			COLOR	% OF	MAX	MIN.
						RATED	HOLD	HOLD
TFLB20A	20A	LIGHT BLUE	TFLB70A	70A	BROWN	CURRENT	TIME	TIME
TFLB30A	30A	PINK	TFLB80A	80A	BLACK	110%	4 H	
					_	200%	5 S.	100 S.
TFLB40A	40A	GREEN	TFLB100A	100A	BLUE		5 0.	
TFLB50A	50A	RED	TFLB120A	120A	WHITE	350%	200 ms.	7 S.
TFLB60A	60A	YELLOW	TFLB140A	140A	REDDISH BROWN	600%	40 ms.	1 S.

Fast Acting and cost-effective high-current automotive fuses for use in automotive, battery and general DC application.

TFLM Fuses - Automotive Link Radial Male Terminal

Specifications: Voltage: 32VDC

Amperage: 20A, 30A, 40A, 50A, 60A, 70A, 80A, 100A, 120A, 140A.

Interrupting Rating: 5,000A @ 32 VAC

Agency Standards and Listings: JASO D612-4:2001.

Sold in blister packs or bulk

PART#	AMPS	HOUSING	PART#	AMP	HOUSING	TIME (CHARACTER	ISTICS
		COLOR		S	COLOR	% OF RATED	MAX HOLD	MIN. HOLD
TFLM20A	20A	WHITE	TFLM70A	70A	BROWN	CURRENT	TIME	TIME
TFLM30A	30A	PINK	TFLM80A	80A	BLACK	110%	4 Hrs.	
TFLM40A	40A	GREEN	TFLM100A	100A	BLUE	200%	5 Secs.	100Secs.
TFLM50A	50A	RED	TFLM120A	120A	GRAY	350%	200 ms.	7 Secs.
TFLM60A	60A	YELLOW	TFLM140A	140A	REDDISH BROWN	600%	40 ms.	1 Secs.

Fast Acting and cost-effective high-current automotive fuses for use in automotive, battery and general DC application.

TFLF Fuses - Automotive Link Female Terminal

Specifications: Voltage: Up to 58VDC

Amperage: 20A, 30A, 40A, 50A, 60A, 70A, 80A, 100A

Current Cycling:(Ambient temperature: 24°C):The fuses satisfy the performance requirements after 50% of the rated current is applied for 10,000 Cycles. Each cycle consists of an interrupted current with

thepattern of 5 min.On&10min.Off.% Change in Fuse Current Carrying Capacity: With change in ambient temperature: -0.075%//C. *Sold in blister packs or bulk*

PART#	AMPS	HOUSING COLOR	PART#	AMPS	HOUSING COLOR		CHARACTER bient Tempera	
TFLF20A	20A	LIGHT-BLUE	TFLF60A	60A	YELLOW	% OF RATED CURRENT	MAX HOLD TIME	MIN. HOLD TIME
TFLF30A	30A	PINK	TFLF70A	70A	BROWN	110%	10 Hrs	
TFLF40A	40A	GREEN	TFLF80A	80A	BLACK	200%	5 Secs.	100Secs.
TFLF50A	50A	RED	TFLF100A	100A	BLUE	350%	0.2Secs.	7 Secs.
IT LI JUA	JUA		II LI IOUA			600%	0.04Secs.	1 Sec.



14



AUTOMOTIVE LINK FUSES

Fast Acting and cost-effective high-current automotive fuses for use in automotive, battery and general DC application. TFLS Fuses - Automotive Link Mini Female Terminal Specifications: Voltage: 32VDC

Amperage: 20A, 30A, 40A, 50A, 60A, 70A, 80A Interrupting Rating: 5,000A @ 32 VAC Agency Standards and Listings: JASO D612-4:2001 *Sold in blister packs or bulk*



PART#	AMPS	COLOR	TIME CHARACTERISTICS		ISTICS
TFLS20A	20A	LIGHT-BLUE	% OF RATED	MAX HOLD	MIN. HOLD
TFLS30A	30A	PINK	CURRENT	TIME	TIME
TFLS40A	40A	GREEN	110%	4 Hrs.	
TFLS50A	50A	RED	200%	5 Secs.	100Secs.
TFLS60A	60A	YELLOW	350%	200 ms.	7 Secs.
TFLS70A	70A	BROWN			
TFLS80A	80A	BLACK	600%	40 ms.	1 Sec.

Fast Acting and cost-effective high-current automotive fuses for use in automotive, battery and general DC application. TFLD Fuses -Automotive Link 9/16" Axial Male Term.-Short Lead Specifications: Voltage: 32VDC

Amperage: 20A, 30A, 40A, 50A, 60A, 70A, 80A, 100A, 120A, 140A Interrupting Rating: 5,000A @ 32 VAC

Agency Standards and Listings: JASO D612-4:2001 *Sold in blister packs or bulk*



PART#	AMPS	COLOR	PART#	AMPS	COLOR	TIME	CHARACTERI	STICS
TFLD20A	20A	LIGHT BLUE	TFLD70A	70A	BROWN	% OF RATED	MAX HOLD	MIN. HOLD
TFLD30A	30A	PINK	TFLD80A	80A	BLACK	CURRENT	TIME	TIME
TFLD40A	40A	GREEN	TFLD100A	100A	BLUE	110%	4 H	
TFLD50A	50A	RED	TFLD120A	120A	WHITE	200%	5 S.	100 S.
						350%	200 ms.	7 S.
TFLD60A	60A	YELLOW	TFLD140A	140A	REDDISH BROWN	600%	40 ms.	1 S.

Fast Acting and cost-effective high-current automotive fuses for use in automotive, battery and general DC application.

TFLN Fuses - Automotive Link Locking Female Terminal Specifications: Voltage: 32VDC Amperage: 25A. 30A

TIME CHARACTERISTICS

Interrupting Ratin	g: 5,000A @ 32 VA	% OF RATED CURRENT	MAX HOLD TIME	MIN. HOLD TIME	
*Sold in blister pack		110%		4HRS.	
	150%		20SECS.		
PART#	AMPS	COLOR	200%	20SECS.	3SECS.
TFLN25A	25A	BROWN	300%	5SECS.	
TFLN30A	30A	GREEN	400%	3SECS.	



Fast Acting and cost-effective high-current automotive fuses for use in automotive.battery and general DC application.

TFLP Fuses - Automotive Link Locking Female Terminal Specifications: Voltage: 32VDCAmperage: 45A, 65A, 75A Interrupting Rating: 5,000A @ 32 VAC

Agency Standards and Listings: JASO D612-4:2001 *Sold in blister packs or bulk*

Fast Acting and cost-effective high-current automotive fuses for use in automotive, battery and general DC application.

FMX Fuses - Automotive Link "JCASE®" Female Terminal Voltage: 32VDC Amperage: 20A, 30A, 40A, 50A, 60A

Interrupting Rating: 5,000A @ 32 VAC

Agency Standards and Listings: JASO D612-4:2001 *Sold in blister packs or bulk*

"JCASE®" is a regular trademark of LittleFuse

		-	
	PART#	AMPS	HOUSING COLOR
١	TFLP45N	45N	RED
	TFLP65N	65N	BLACK
	TFLP75N	75N	GRAY



PART#	AMPS	HOUSING COLOR
FMX20	20A	LIGHT BLUE
FMX30	30A	PINK
FMX40	40A	GREEN
FMX50	50A	RED
FMX60	60A	YELLOW





FUSEBLOCKS

PART# BLC-09 Fuseblock for open link style fuse limiters for low amperage applications. Not to exceed 200A **Fuse Type:** ANE / ANF Fuse Limiters **Specifications:**

Voltage Rating: 125VAC Max Current Rating: 200A. ULR Certification number E40654 Base:Polyester Impact/Electrical -01528 Grey with Mineral and Glass Fiber Added. Terminals: Low Carbon Steel, Zinc Finish. *Sold in blister packs or bulk*

PART# BLC-209 Fuseblock for open link style fuse limiters for high amperage applications. Not to exceeed 800A **Fuse Type:** ANE / ANF Fuse Limiters **Specifications:**

Voltage Rating: 125VAC Max Current Rating: 800A.

Base: Thermoplastic Terminals: Brass *Sold in blister packs or bulk*

PART# BLC-11 Single position Fuseblock for standard size automotive blade-type fuses. **Fuse Type:** ABS rated up to 30A; **Max Voltage:** 250V **Material:** Nylon **Contacts:** Terminal Type; 1/4" Quick Disconnects. **Contact Resistance:** @ 1AMP DC: 5mOhm **Insulation Resistance:**100 mOhm **Dielectric Strength:** VAC For 1 MIN: 1500

Interlock for multiple mounting. *Sold in blister packs or bulk*

PART# BLC-106 6 position Fuseblock for standard size automotive blade-type fuses. **Fuse Type:** Standard Size Auto Blade - ABS.

Specifications: Max Current Rating: 30A per Circuit - 100A Max Input **Base:** Black Thermoplastic UL-Rated 94-V0

Terminals: Steel, Tin plated 0.250" Quick Connect Terminals *Sold in blister packs or bulk* **PART# BLC-108** 8 position Fuseblock for regular automotive blade-type fuses.

Fuse Type: Standard Size Auto Blade - ABS.

Specifications: Max Current Rating: 30A per Circuit - 100A Max InpuT **Base:** Black Thermoplastic UL-Rated 94-V0

Terminals: Steel, Tin plated 0.250" Quick Connect Terminals *Sold in blister packs or bulk*

PART# BLC-110 10 position Fuseblock for regular automotive blade-type fuses. **Fuse Type:** Regular Auto Blade - ABS.

Specifications: Max Current Rating: 30A per Circuit - 100A Max Input **Base:** Black Thermoplastic UL-Rated 94-V0

Terminals: Steel, Tin plated 0.250" Quick Connect Terminals *Sold in blister packs or bulk*

PART# BLC-16- (B,B1,B2,S,S1,S2) Sub B for Bent Terminal with no legs B1 Bent with 1 leg, B2 Bent with 2 legs, S Straight with no legs, S1 Straight with 1 leg, S2 Straight with 2 legs Fuseblocks - Glass/Ceramic Tube Fuses Fuse Style: 1/4" x 1-1/4" (3AG size fuses) Material: Body: Thermostate (UL Flame: 94V-0) Fuse Clips: Copper Alloy Tinned T:0.5mm Terminal: Copper Alloy Tinned T:0.8mm

Specifications: Dielectric Strength for 60 seconds: 1200VAC Min Suitable Rated Current: 25A 250V Insulation resistance at 500V DC: 500M Min. Temperature Rise: 30 with dummy fuse, 85 with time-delay fuseVoltage Drop: 15mV Max. *Sold in blister packs or bulk*

PART# BLC-20A Fuseblocks - Glass/Ceramic Tube Fuses Fuse Style: 1/4" x 1-1/4" (3AG size fuses) Single Fuse Blocks can be snapped together for multi-pole applications Material: Body: PBT (UL Flame: 94V-0) Terminal: Nickel plated Brass

Mounting: by screws Electrical: 15A 125VAC 10A 250VA *Sold in blister packs or bulk*

PART# BLC-20C Fuseblocks - Glass/Ceramic Tube Fuses Fuse Style: 5mm X 20mm This fuse block can string array.
Material: Body: PBT (UL Flame: 94V-0) Terminal: Nickel plated Brass
Mounting: by screws
Electrical: 8A 125VAC 8A 250VAC
Sold in blister packs or bulk

PART# BLC-13 Fuseblocks - Glass/Ceramic Tube Fuses Fuse Style: 5mm X 20mm Material: Body: Nylon, Glass fiber (UL Flame: 94V-1) Terminal: Brass Tin plated Mounting: PCB Electrical: 6.3A 250 *Sold in blister packs or bulk*







AUTOMOTIVE CIRCUIT BREAKERS

Automatic Reset Circuit Breakers - Type I - Single pole thermal type breakers which are used in 6 - 24VDC circuits. Applications include trucks, buses, portable generators, recreational vehicles, trolling motors and others. Conforms to SAE J553 standard.

Conforms to SAE J553 standard.	0	
PART# ACB-N-(X) Substitute Amerage for (X)	RATING	OPEN TIME
Automatic Reset Circuit Breaker Metal Without Bracket	100%(+)(-)	> 30min
Specifications: Automatic Reset Type Circuit Breaker	1.5%	> 30mm
Voltage:Up to 24V Amperage: 10A, 15A, 20A, 25A, 30A, 35A, 40A, 50A		
Terminals: Battery – Copper Plate (0.58"), Auxiliary – Zinc Plate (0.66")	135%(+)(-)	< 30min
Conforms to American National Standard SAE J553 Body: Steel Case	1.5%	
Operating Temperature: -10° F ~ 150° F Storage Temperature: -20° F ~ 200° F	200%(+)(-)	< 1 min
Sold in blister packs or in bulk	1.5%	
PART# ACB-H-(X) Substitute Amerage for (X)	RATING	OPEN TIME
Automatic Reset Circuit Breaker Metal With Horizontal Bracket	4000(())()	
Specifications: Automatic Reset Type Circuit Breaker	100%(+)(-) 1.5%	> 30min
Voltage:Up to 24V Amperage: 10A, 15A, 20A, 25A, 30A, 35A, 40A, 50A		
Terminals: Battery- Copper Plate (0.58"), Auxiliary – Zinc Plate (0.66")	135%(+)(-) 1.5%	< 30min
Conforms to American National Standard SAE J553 Body: Steel Case		
Operating Temperature: -10° F ~ 150° F Storage Temperature: -20° F ~ 200° F	200%(+)(-) 1.5%	< 1 min
Sold in blister packs or in bulk	RATING	OPEN TIME
PART# ACB-V-(X) Substitute Amerage for (X)	RATING	OPEN TIME
Automatic Reset Circuit Breaker Metal With Vertical Bracket	100%(+)(-)	> 30min
Specifications: Automatic Reset Type Circuit Breaker	1.5%	
Voltage: Up to 24V Amperage: 10A, 15A, 20A, 25A, 30A, 35A, 40A, 50A	1250/(1)()	1.20min
Terminals: Battery – Copper Plate (0.58"), Auxiliary – Zinc Plate (0.66") Conforms to American National Standard SAE J553	135%(+)(-) 1.5%	< 30min
Body: Steel Case	1.070	
Operating Temperature: -10° F ~ 150° F Storage Temperature: -20° F ~ 200° F	200%(+)(-)	< 1 min
Sold in blister packs or in bulk	1.5%	
Manual Reset Circuit Breaker - Type III Single pole thermal type breakers which a	 reused in 6	
Applications include trucks buses portable generators recreational vehicles trolli		and others
Applications include trucks, buses, portable generators, recreational vehicles, trolli Conforms to SAE J553 standard.	ng motors a	and others.
Conforms to SAE J553 standard.		
Conforms to SAE J553 standard. PART# MRCB-N-(X) Substitute Amerage for (X)		OPEN TIME
Conforms to SAE J553 standard. PART# MRCB-N-(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal Withoutl Bracket	RATING	OPEN TIME
Conforms to SAE J553 standard. PART# MRCB-N-(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal Withoutl Bracket Specifications: Voltage: Up to 24V* Cannot exceed rated voltage. The Circuit	RATING	OPEN TIME
Conforms to SAE J553 standard. PART# MRCB-N-(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal Withoutl Bracket Specifications: Voltage: Up to 24V* Cannot exceed rated voltage. The Circuit Breakers may be used at any voltage below the Rated Voltage.	RATING 100%(+)(-) 1.5%	OPEN TIME > 30min
Conforms to SAE J553 standard. PART# MRCB-N-(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal Withoutl Bracket Specifications: Voltage: Up to 24V* Cannot exceed rated voltage. The Circuit	RATING	OPEN TIME
Conforms to SAE J553 standard. PART# MRCB-N-(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal Withoutl Bracket Specifications: Voltage: Up to 24V* Cannot exceed rated voltage. The Circuit Breakers may be used at any voltage below the Rated Voltage. Amperage: 10A, 15A, 20A, 25A, 30A, 35A, 40A, 50A	RATING 100%(+)(-) 1.5% 135%(+)(-) 1.5%	OPEN TIME > 30min < 30min
Conforms to SAE J553 standard. PART# MRCB-N-(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal Withoutl Bracket Specifications: Voltage: Up to 24V* Cannot exceed rated voltage. The Circuit Breakers may be used at any voltage below the Rated Voltage. Amperage: 10A, 15A, 20A, 25A, 30A, 35A, 40A, 50A Terminals: Battery – Copper Plate (0.58"), Auxiliary – Zinc Plate (0.66")	RATING 100%(+)(-) 1.5% 135%(+)(-) 1.5% 200%(+)(-)	OPEN TIME > 30min < 30min
Conforms to SAE J553 standard. PART# MRCB-N-(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal Withoutl Bracket Specifications: Voltage: Up to 24V* Cannot exceed rated voltage. The Circuit Breakers may be used at any voltage below the Rated Voltage. Amperage: 10A, 15A, 20A, 25A, 30A, 35A, 40A, 50A Terminals: Battery – Copper Plate (0.58"), Auxiliary – Zinc Plate (0.66") Conforms to American National Standard SAE J553 Body: Steel Case	RATING 100%(+)(-) 1.5% 135%(+)(-) 1.5%	OPEN TIME > 30min < 30min
Conforms to SAE J553 standard. PART# MRCB-N-(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal Withoutl Bracket Specifications: Voltage: Up to 24V* Cannot exceed rated voltage. The Circuit Breakers may be used at any voltage below the Rated Voltage. Amperage: 10A, 15A, 20A, 25A, 30A, 35A, 40A, 50A Terminals: Battery – Copper Plate (0.58"), Auxiliary – Zinc Plate (0.66") Conforms to American National Standard SAE J553 Body:Steel Case Operating Temperature -10° F ~ 150°FStorage Temperature: -20°F ~ 200° F	RATING 100%(+)(-) 1.5% 135%(+)(-) 1.5% 200%(+)(-) 1.5%	OPEN TIME > 30min < 30min
Conforms to SAE J553 standard. PART# MRCB-N-(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal Withoutl Bracket Specifications: Voltage: Up to 24V* Cannot exceed rated voltage. The Circuit Breakers may be used at any voltage below the Rated Voltage. Amperage: 10A, 15A, 20A, 25A, 30A, 35A, 40A, 50A Terminals: Battery – Copper Plate (0.58"), Auxiliary – Zinc Plate (0.66") Conforms to American National Standard SAE J553 Body:Steel Case Operating Temperature -10° F ~ 150°FStorage Temperature: -20°F ~ 200° F *Sold in blister packs or in bulk* PART# MRCB-H-(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal With Horizontal Bracket	RATING 100%(+)(-) 1.5% 135%(+)(-) 1.5% 200%(+)(-) 1.5% RATING	OPEN TIME > 30min < 30min < 1 min OPEN TIME
Conforms to SAE J553 standard. PART# MRCB-N-(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal Withoutl Bracket Specifications: Voltage: Up to 24V* Cannot exceed rated voltage. The Circuit Breakers may be used at any voltage below the Rated Voltage. Amperage: 10A, 15A, 20A, 25A, 30A, 35A, 40A, 50A Terminals: Battery – Copper Plate (0.58"), Auxiliary – Zinc Plate (0.66") Conforms to American National Standard SAE J553 Body:Steel Case Operating Temperature -10° F ~ 150°FStorage Temperature: -20°F ~ 200° F *Sold in blister packs or in bulk* PART# MRCB-H-(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal With Horizontal Bracket Specifications: Voltage: Up to 24V* Cannot exceed rated voltage. The Circuit	RATING 100%(+)(-) 1.5% 135%(+)(-) 1.5% 200%(+)(-) 1.5% RATING 100%(+)(-)	OPEN TIME > 30min < 30min < 1 min OPEN TIME
Conforms to SAE J553 standard. PART# MRCB-N-(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal Withoutl Bracket Specifications: Voltage: Up to 24V* Cannot exceed rated voltage. The Circuit Breakers may be used at any voltage below the Rated Voltage. Amperage: 10A, 15A, 20A, 25A, 30A, 35A, 40A, 50A Terminals: Battery – Copper Plate (0.58"), Auxiliary – Zinc Plate (0.66") Conforms to American National Standard SAE J553 Body:Steel Case Operating Temperature -10° F ~ 150°FStorage Temperature: -20°F ~ 200° F *Sold in blister packs or in bulk* PART# MRCB-H-(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal With Horizontal Bracket Specifications: Voltage: Up to 24V* Cannot exceed rated voltage. The Circuit Breakers may be used at any voltage below the Rated Voltage.	RATING 100%(+)(-) 1.5% 135%(+)(-) 1.5% 200%(+)(-) 1.5% RATING	OPEN TIME > 30min < 30min < 1 min OPEN TIME
Conforms to SAE J553 standard. PART# MRCB-N-(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal Withoutl Bracket Specifications: Voltage: Up to 24V* Cannot exceed rated voltage. The Circuit Breakers may be used at any voltage below the Rated Voltage. Amperage: 10A, 15A, 20A, 25A, 30A, 35A, 40A, 50A Terminals: Battery – Copper Plate (0.58"), Auxiliary – Zinc Plate (0.66") Conforms to American National Standard SAE J553 Body:Steel Case Operating Temperature -10° F ~ 150°FStorage Temperature: -20°F ~ 200° F *Sold in blister packs or in bulk* PART# MRCB-H-(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal With Horizontal Bracket Specifications: Voltage: Up to 24V* Cannot exceed rated voltage. The Circuit Breakers may be used at any voltage below the Rated Voltage. Amperage:10A, 15A, 20A, 25A, 30A, 35A, 40A, 50A	RATING 100%(+)(-) 1.5% 135%(+)(-) 1.5% 200%(+)(-) 1.5% RATING 100%(+)(-)	OPEN TIME > 30min < 30min < 1 min OPEN TIME > 30min
Conforms to SAE J553 standard. PART# MRCB-N-(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal Withoutl Bracket Specifications: Voltage: Up to 24V* Cannot exceed rated voltage. The Circuit Breakers may be used at any voltage below the Rated Voltage. Amperage: 10A, 15A, 20A, 25A, 30A, 35A, 40A, 50A Terminals: Battery – Copper Plate (0.58"), Auxiliary – Zinc Plate (0.66") Conforms to American National Standard SAE J553 Body:Steel Case Operating Temperature -10° F ~ 150°FStorage Temperature: -20°F ~ 200° F *Sold in blister packs or in bulk* PART# MRCB-H-(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal With Horizontal Bracket Specifications: Voltage: Up to 24V* Cannot exceed rated voltage. The Circuit Breakers may be used at any voltage below the Rated Voltage. Amperage:10A, 15A, 20A, 25A, 30A, 35A, 40A, 50A Terminals: Battery – Copper Plate (0.58"), Auxiliary – Zinc Plate (0.66")	RATING 100%(+)(-) 1.5% 135%(+)(-) 1.5% 200%(+)(-) 1.5% RATING 100%(+)(-) 1.5%	OPEN TIME > 30min < 30min < 1 min OPEN TIME > 30min
Conforms to SAE J553 standard. PART# MRCB-N-(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal Withoutl Bracket Specifications: Voltage: Up to 24V* Cannot exceed rated voltage. The Circuit Breakers may be used at any voltage below the Rated Voltage. Amperage: 10A, 15A, 20A, 25A, 30A, 35A, 40A, 50A Terminals: Battery – Copper Plate (0.58"), Auxiliary – Zinc Plate (0.66") Conforms to American National Standard SAE J553 Body:Steel Case Operating Temperature -10° F ~ 150°FStorage Temperature: -20°F ~ 200° F *Sold in blister packs or in bulk* PART# MRCB-H-(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal With Horizontal Bracket Specifications: Voltage: Up to 24V* Cannot exceed rated voltage. The Circuit Breakers may be used at any voltage below the Rated Voltage. Amperage:10A, 15A, 20A, 25A, 30A, 35A, 40A, 50A Terminals: Battery – Copper Plate (0.58"), Auxiliary – Zinc Plate (0.66") Conforms to American National Standard SAE J553 Body:Steel Case	RATING 100%(+)(-) 1.5% 135%(+)(-) 1.5% 200%(+)(-) 1.5% RATING 100%(+)(-) 1.5% 135%(+)(-) 1.5%	OPEN TIME > 30min < 30min < 1 min OPEN TIME > 30min < 30min
Conforms to SAE J553 standard. PART# MRCB-N-(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal Withoutl Bracket Specifications: Voltage: Up to 24V* Cannot exceed rated voltage. The Circuit Breakers may be used at any voltage below the Rated Voltage. Amperage: 10A, 15A, 20A, 25A, 30A, 35A, 40A, 50A Terminals: Battery – Copper Plate (0.58"), Auxiliary – Zinc Plate (0.66") Conforms to American National Standard SAE J553 Body:Steel Case Operating Temperature -10° F ~ 150°FStorage Temperature: -20°F ~ 200° F *Sold in blister packs or in bulk* PART# MRCB-H-(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal With Horizontal Bracket Specifications: Voltage: Up to 24V* Cannot exceed rated voltage. The Circuit Breakers may be used at any voltage below the Rated Voltage. Amperage:10A, 15A, 20A, 25A, 30A, 35A, 40A, 50A Terminals: Battery – Copper Plate (0.58"), Auxiliary – Zinc Plate (0.66") Conforms to American National Standard SAE J553 Body:Steel Case Operating Temperature -10° F ~ 150°FStorage Temperature: -20°F ~ 200° F	RATING 100%(+)(-) 1.5% 135%(+)(-) 1.5% 200%(+)(-) 1.5% RATING 100%(+)(-) 1.5% 135%(+)(-) 1.5% 200%(+)(-)	OPEN TIME > 30min < 30min < 1 min OPEN TIME > 30min < 30min
Conforms to SAE J553 standard. PART# MRCB-N-(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal Withoutl Bracket Specifications: Voltage: Up to 24V* Cannot exceed rated voltage. The Circuit Breakers may be used at any voltage below the Rated Voltage. Amperage: 10A, 15A, 20A, 25A, 30A, 35A, 40A, 50A Terminals: Battery – Copper Plate (0.58"), Auxiliary – Zinc Plate (0.66") Conforms to American National Standard SAE J553 Body:Steel Case Operating Temperature -10° F ~ 150°FStorage Temperature: -20°F ~ 200° F *Sold in blister packs or in bulk* PART# MRCB-H-(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal With Horizontal Bracket Specifications: Voltage: Up to 24V* Cannot exceed rated voltage. The Circuit Breakers may be used at any voltage below the Rated Voltage. Amperage:10A, 15A, 20A, 25A, 30A, 35A, 40A, 50A Terminals: Battery – Copper Plate (0.58"), Auxiliary – Zinc Plate (0.66") Conforms to American National Standard SAE J553 Body:Steel Case Operating Temperature -10° F ~ 150°FStorage Temperature: -20°F ~ 200° F *Sold in bister packs or in bulk*	RATING 100%(+)(-) 1.5% 135%(+)(-) 1.5% 200%(+)(-) 1.5% RATING 100%(+)(-) 1.5% 135%(+)(-) 1.5%	OPEN TIME > 30min < 30min < 1 min OPEN TIME > 30min < 30min < 1 min
Conforms to SAE J553 standard. PART# MRCB-N-(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal Withoutl Bracket Specifications: Voltage: Up to 24V* Cannot exceed rated voltage. The Circuit Breakers may be used at any voltage below the Rated Voltage. Amperage: 10A, 15A, 20A, 25A, 30A, 35A, 40A, 50A Terminals: Battery – Copper Plate (0.58"), Auxiliary – Zinc Plate (0.66") Conforms to American National Standard SAE J553 Body:Steel Case Operating Temperature -10° F ~ 150°FStorage Temperature: -20°F ~ 200° F *Sold in blister packs or in bulk* PART# MRCB-H-(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal With Horizontal Bracket Specifications: Voltage: Up to 24V* Cannot exceed rated voltage. The Circuit Breakers may be used at any voltage below the Rated Voltage. Amperage:10A, 15A, 20A, 25A, 30A, 35A, 40A, 50A Terminals: Battery – Copper Plate (0.58"), Auxiliary – Zinc Plate (0.66") Conforms to American National Standard SAE J553 Body:Steel Case Operating Temperature: -10° F ~ 150°FStorage Temperature: -20°F ~ 200° F *Sold in blister packs or in bulk* PART# MRCB-V-(X) Substitute Amerage for (X)	RATING 100%(+)(-) 1.5% 135%(+)(-) 1.5% 200%(+)(-) 1.5% RATING 100%(+)(-) 1.5% 135%(+)(-) 1.5% 200%(+)(-)	OPEN TIME > 30min < 30min < 1 min OPEN TIME > 30min < 30min < 1 min OPEN
Conforms to SAE J553 standard. PART# MRCB-N-(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal Withoutl Bracket Specifications: Voltage: Up to 24V* Cannot exceed rated voltage. The Circuit Breakers may be used at any voltage below the Rated Voltage. Amperage: 10A, 15A, 20A, 25A, 30A, 35A, 40A, 50A Terminals: Battery – Copper Plate (0.58"), Auxiliary – Zinc Plate (0.66") Conforms to American National Standard SAE J553 Body:Steel Case Operating Temperature -10° F ~ 150°FStorage Temperature: -20°F ~ 200° F *Sold in blister packs or in bulk* PART# MRCB-H-(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal With Horizontal Bracket Specifications: Voltage: Up to 24V* Cannot exceed rated voltage. The Circuit Breakers may be used at any voltage below the Rated Voltage. Amperage:10A, 15A, 20A, 25A, 30A, 35A, 40A, 50A Terminals: Battery – Copper Plate (0.58"), Auxiliary – Zinc Plate (0.66") Conforms to American National Standard SAE J553 Body:Steel Case Operating Temperature: -10° F ~ 150°FStorage Temperature: -20°F ~ 200° F *Sold in blister packs or in bulk* PART# MRCB-V-(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal With Horizontal Bracket Specifications: Voltage: Up to 24V* Cannot exceed rated voltage. The Circuit Breakers may be used at any voltage below the Rated Voltage. Amperage:10A, 15A, 20A, 25A, 30A, 35A, 40A, 50A Terminals: Battery – Copper Plate (0.58"), Auxiliary – Zinc Plate (0.66") Conforms to American National Standard SAE J553 Body:Steel Case Operating Temperature: -10° F ~ 150°FStorage Temperature: -20°F ~ 200° F *Sold in blister packs or in bulk* PART# MRCB-V-(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal With Horizontal Bracket	RATING 100%(+)(-) 1.5% 135%(+)(-) 1.5% 200%(+)(-) 1.5% RATING 100%(+)(-) 1.5% 200%(+)(-) 1.5% RATING RATING RATING	OPEN TIME > 30min < 30min < 1 min OPEN TIME > 30min < 30min < 30min < 1 min OPEN TIME
Conforms to SAE J553 standard. PART# MRCB-N-(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal Withoutl Bracket Specifications: Voltage: Up to 24V* Cannot exceed rated voltage. The Circuit Breakers may be used at any voltage below the Rated Voltage. Amperage: 10A, 15A, 20A, 25A, 30A, 35A, 40A, 50A Terminals: Battery – Copper Plate (0.58"), Auxiliary – Zinc Plate (0.66") Conforms to American National Standard SAE J553 Body:Steel Case Operating Temperature -10° F ~ 150°FStorage Temperature: -20°F ~ 200° F *Sold in blister packs or in bulk* PART# MRCB-H-(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal With Horizontal Bracket Specifications: Voltage: Up to 24V* Cannot exceed rated voltage. The Circuit Breakers may be used at any voltage below the Rated Voltage. Amperage:10A, 15A, 20A, 25A, 30A, 35A, 40A, 50A Terminals: Battery – Copper Plate (0.58"), Auxiliary – Zinc Plate (0.66") Conforms to American National Standard SAE J553 Body:Steel Case Operating Temperature: -10° F ~ 150°FStorage Temperature: -20°F ~ 200° F *Sold in blister packs or in bulk* PART# MRCB-V-(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal With Horizontal Bracket Specifications: Voltage: Up to 24V* Cannot exceed rated voltage. Amperage:10A, 15A, 20A, 25A, 30A, 35A, 40A, 50A Terminals: Battery – Copper Plate (0.58"), Auxiliary – Zinc Plate (0.66") Conforms to American National Standard SAE J553 Body:Steel Case Operating Temperature: -10° F ~ 150°FStorage Temperature: -20°F ~ 200° F *Sold in blister packs or in bulk* PART# MRCB-V-(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal With Horizontal Bracket Specifications: Voltage: Up to 24V* Cannot exceed rated voltage.	RATING 100%(+)(-) 1.5% 135%(+)(-) 1.5% 200%(+)(-) 1.5% RATING 100%(+)(-) 1.5% 135%(+)(-) 1.5%	OPEN TIME > 30min < 30min < 1 min OPEN TIME > 30min < 30min < 30min < 1 min OPEN TIME
Conforms to SAE J553 standard. PART# MRCB-N-(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal Withoutl Bracket Specifications: Voltage: Up to 24V* Cannot exceed rated voltage. The Circuit Breakers may be used at any voltage below the Rated Voltage. Amperage: 10A, 15A, 20A, 25A, 30A, 35A, 40A, 50A Terminals: Battery – Copper Plate (0.58"), Auxiliary – Zinc Plate (0.66") Conforms to American National Standard SAE J553 Body:Steel Case Operating Temperature -10° F ~ 150°FStorage Temperature: -20°F ~ 200° F *Sold in blister packs or in bulk* PART# MRCB-H-(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal With Horizontal Bracket Specifications: Voltage: Up to 24V* Cannot exceed rated voltage. The Circuit Breakers may be used at any voltage below the Rated Voltage. Amperage:10A, 15A, 20A, 25A, 30A, 35A, 40A, 50A Terminals: Battery – Copper Plate (0.58"), Auxiliary – Zinc Plate (0.66") Conforms to American National Standard SAE J553 Body:Steel Case Operating Temperature: -10° F ~ 150°FStorage Temperature: -20°F ~ 200° F *Sold in blister packs or in bulk* PART# MRCB-V-(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal With Horizontal Bracket Specifications: Voltage: Up to 24V* Cannot exceed rated voltage. PART# MRCB-V-(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal With Horizontal Bracket Specifications: Voltage: Up to 24V* Cannot exceed rated voltage. The Circuit Breakers may be used at any voltage below the Rated Voltage.	RATING 100%(+)(-) 1.5% 135%(+)(-) 1.5% 200%(+)(-) 1.5% 135%(+)(-) 1.5% 200%(+)(-) 1.5% RATING 100%(+)(-) 1.5%	OPEN TIME > 30min < 30min < 1 min OPEN TIME > 30min < 30min < 1 min OPEN TIME > 30min > 30min
Conforms to SAE J553 standard. PART# MRCB-N-(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal Withoutl Bracket Specifications: Voltage: Up to 24V* Cannot exceed rated voltage. The Circuit Breakers may be used at any voltage below the Rated Voltage. Amperage: 10A, 15A, 20A, 25A, 30A, 35A, 40A, 50A Terminals: Battery – Copper Plate (0.58"), Auxiliary – Zinc Plate (0.66") Conforms to American National Standard SAE J553 Body:Steel Case Operating Temperature -10° F ~ 150°FStorage Temperature: -20°F ~ 200° F *Sold in blister packs or in bulk* PART# MRCB-H-(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal With Horizontal Bracket Specifications: Voltage: Up to 24V* Cannot exceed rated voltage. The Circuit Breakers may be used at any voltage below the Rated Voltage. Amperage:10A, 15A, 20A, 25A, 30A, 35A, 40A, 50A Terminals: Battery – Copper Plate (0.58"), Auxiliary – Zinc Plate (0.66") Conforms to American National Standard SAE J553 Body:Steel Case Operating Temperature: -10° F ~ 150°FStorage Temperature: -20°F ~ 200° F *Sold in blister packs or in bulk* PART# MRCB-V-(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal With Horizontal Bracket Specifications: Voltage: Up to 24V* Cannot exceed rated voltage. PART# MRCB-V-(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal With Horizontal Bracket Specifications: Voltage: Up to 24V* Cannot exceed rated voltage. The Circuit Breakers may be used at any voltage below the Rated Voltage. The Circuit Breakers may be used at any voltage below the Rated Voltage. Amperage:10A, 15A, 20A, 25A, 30A, 35A, 40A, 50A	RATING 100%(+)(-) 1.5% 135%(+)(-) 1.5% 200%(+)(-) 1.5% RATING 100%(+)(-) 1.5% 200%(+)(-) 1.5% RATING 100%(+)(-) 1.5% RATING 100%(+)(-) 1.5%	OPEN TIME > 30min < 30min < 1 min OPEN TIME > 30min < 30min < 1 min OPEN TIME > 30min > 30min
Conforms to SAE J553 standard. PART# MRCB-N-(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal Withoutl Bracket Specifications: Voltage: Up to 24V* Cannot exceed rated voltage. The Circuit Breakers may be used at any voltage below the Rated Voltage. Amperage: 10A, 15A, 20A, 25A, 30A, 35A, 40A, 50A Terminals: Battery – Copper Plate (0.58"), Auxiliary – Zinc Plate (0.66") Conforms to American National Standard SAE J553 Body:Steel Case Operating Temperature -10° F ~ 150°FStorage Temperature: -20°F ~ 200° F *Sold in blister packs or in bulk* PART# MRCB-H-(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal With Horizontal Bracket Specifications: Voltage: Up to 24V* Cannot exceed rated voltage. The Circuit Breakers may be used at any voltage below the Rated Voltage. Amperage:10A, 15A, 20A, 25A, 30A, 35A, 40A, 50A Terminals: Battery – Copper Plate (0.58"), Auxiliary – Zinc Plate (0.66") Conforms to American National Standard SAE J553 Body:Steel Case Operating Temperature: -10° F ~ 150°FStorage Temperature: -20°F ~ 200° F *Sold in blister packs or in bulk* PART# MRCB-V-(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal With Horizontal Bracket Specifications: Voltage: Up to 24V* Cannot exceed rated voltage. PART# MRCB-V-(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal With Horizontal Bracket Specifications: Voltage: Up to 24V* Cannot exceed rated voltage. The Circuit Breakers may be used at any voltage below the Rated Voltage. The Circuit Breaker Metal With Horizontal Bracket Specifications: Voltage: Up to 24V* Cannot exceed rated voltage. The Circuit Breakers may be used at any voltage below the Rated Voltage. Amperage:10A, 15A, 20A, 25A, 30A, 35A, 40A, 50A Terminals: Battery – Copper Plate (0.58"), Auxiliary – Zinc Plate (0.66")	RATING 100%(+)(-) 1.5% 135%(+)(-) 1.5% 200%(+)(-) 1.5% RATING 100%(+)(-) 1.5% 200%(+)(-) 1.5% 200%(+)(-) 1.5% 200%(+)(-) 1.5% 200%(+)(-) 1.5% 100%(+)(-) 1.5% 135%(+)(-) 1.5% 135%(+)(-) 1.5%	OPEN TIME > 30min < 30min < 1 min OPEN TIME > 30min < 30min < 1 min OPEN TIME > 30min < 30min < 30min < 30min
Conforms to SAE J553 standard. PART# MRCB-N-(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal Withoutl Bracket Specifications: Voltage: Up to 24V* Cannot exceed rated voltage. The Circuit Breakers may be used at any voltage below the Rated Voltage. Amperage: 10A, 15A, 20A, 25A, 30A, 35A, 40A, 50A Terminals: Battery – Copper Plate (0.58"), Auxiliary – Zinc Plate (0.66") Conforms to American National Standard SAE J553 Body:Steel Case Operating Temperature -10° F ~ 150°FStorage Temperature: -20°F ~ 200° F *Sold in blister packs or in bulk* PART# MRCB-H-(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal With Horizontal Bracket Specifications: Voltage: Up to 24V* Cannot exceed rated voltage. The Circuit Breakers may be used at any voltage below the Rated Voltage. Amperage:10A, 15A, 20A, 25A, 30A, 35A, 40A, 50A Terminals: Battery – Copper Plate (0.58"), Auxiliary – Zinc Plate (0.66") Conforms to American National Standard SAE J553 Body:Steel Case Operating Temperature: -10° F ~ 150°FStorage Temperature: -20°F ~ 200° F *Sold in blister packs or in bulk* PART# MRCB-V(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal With Horizontal Bracket Specifications: Voltage: Up to 24V* Cannot exceed rated voltage. Amperage:10A, 15A, 20A, 25A, 30A, 35A, 40A, 50A Terminals: Battery – Copper Plate (0.58"), Auxiliary – Zinc Plate (0.66") Conforms to American National Standard SAE J553 Body:Steel Case Operating Temperature: -10° F ~ 150°FStorage Temperature: -20°F ~ 200° F *Sold in blister packs or in bulk* PART# MRCB-V-(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal With Horizontal Bracket Specifications: Voltage: Up to 24V* Cannot exceed rated voltage. The Circuit Breakers may be used at any voltage below the Rated Voltage. Amperage:10A, 15A, 20A, 25A, 30A, 35A, 40A, 50A Terminals: Battery – Copper Plate (0.58"), Auxiliary – Zinc Plate (0.66") Conforms to American National Standard SAE J553 Body:Steel Case	RATING 100%(+)(-) 1.5% 135%(+)(-) 1.5% 200%(+)(-) 1.5% RATING 100%(+)(-) 1.5% 200%(+)(-) 1.5% 200%(+)(-) 1.5% 200%(+)(-) 1.5% 100%(+)(-) 1.5% 100%(+)(-) 1.5% 135%(+)(-) 1.5% 200%(+)(-) 1.5% 200%(+)(-)	OPEN TIME > 30min < 30min < 1 min OPEN TIME > 30min < 30min < 1 min OPEN TIME > 30min < 30min < 30min < 30min
Conforms to SAE J553 standard. PART# MRCB-N-(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal Withoutl Bracket Specifications: Voltage: Up to 24V* Cannot exceed rated voltage. The Circuit Breakers may be used at any voltage below the Rated Voltage. Amperage: 10A, 15A, 20A, 25A, 30A, 35A, 40A, 50A Terminals: Battery – Copper Plate (0.58"), Auxiliary – Zinc Plate (0.66") Conforms to American National Standard SAE J553 Body:Steel Case Operating Temperature -10° F ~ 150°FStorage Temperature: -20°F ~ 200° F *Sold in blister packs or in bulk* PART# MRCB-H-(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal With Horizontal Bracket Specifications: Voltage: Up to 24V* Cannot exceed rated voltage. The Circuit Breakers may be used at any voltage below the Rated Voltage. Amperage:10A, 15A, 20A, 25A, 30A, 35A, 40A, 50A Terminals: Battery – Copper Plate (0.58"), Auxiliary – Zinc Plate (0.66") Conforms to American National Standard SAE J553 Body:Steel Case Operating Temperature: -10° F ~ 150°FStorage Temperature: -20°F ~ 200° F *Sold in blister packs or in bulk* PART# MRCB-V-(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal With Horizontal Bracket Specifications: Voltage: Up to 24V* Cannot exceed rated voltage. PART# MRCB-V-(X) Substitute Amerage for (X) Manual Reset Circuit Breaker Metal With Horizontal Bracket Specifications: Voltage: Up to 24V* Cannot exceed rated voltage. The Circuit Breakers may be used at any voltage below the Rated Voltage. The Circuit Breaker Metal With Horizontal Bracket Specifications: Voltage: Up to 24V* Cannot exceed rated voltage. The Circuit Breakers may be used at any voltage below the Rated Voltage. Amperage:10A, 15A, 20A, 25A, 30A, 35A, 40A, 50A Terminals: Battery – Copper Plate (0.58"), Auxiliary – Zinc Plate (0.66")	RATING 100%(+)(-) 1.5% 135%(+)(-) 1.5% 200%(+)(-) 1.5% RATING 100%(+)(-) 1.5% 200%(+)(-) 1.5% 200%(+)(-) 1.5% 200%(+)(-) 1.5% 200%(+)(-) 1.5% 100%(+)(-) 1.5% 135%(+)(-) 1.5% 135%(+)(-) 1.5%	OPEN TIME > 30min < 30min < 1 min OPEN TIME > 30min < 30min < 1 min OPEN TIME > 30min < 30min < 30min < 30min

nin	
VD ther	C circuits. s.
ΓIME	Í
nin	
nin	4
in	
IME	
nin	
nin	
in	
N ≣	2
nin	ATU .
nin	
in	

CROSS REFERENCE GUIDE

A&V	BUSSMAN	LITTLE FUSE	
1GF	AGA	301	
2GF	C520	225	
2GS	C519	229	
3CF	ABC	314	
3CS	MDA	326	
3GF	AGC	312	
3GS	MDL	313	
5GF	AGU	512	
7GF	AGW	303	
8GF	AGX	361	
A3T	JJN	JLLN	
A6T	JJS	JLLS	
ABL	ATM-LP		
ABM	ATM	297/MINI	
ABS	ATC	257/ATO	
ABX	MAX	299/MAXI	
ACB-H	121	813	
ACB-N	121	812	
ACB-V	121		
AG	SC	SLC	
AJT	LPJ	JTD	
ANE	ANN	CNN	
ANF	ANL	CNL	
APG			
ATDR	LP-CC	CCMR	
ATM	ктк	KLK	
ATMR	KTK-R	KLKR	
ATQ	FNQ	FLQ	
ATQR	FNQ-R	KLDR	
BLC-09	4164	LFFB	
BLC-100		350417	
BLC-106	15600-06		
BLC-108	15600-08		
BLC-11			
BLC-110	15600-10		
BLC-209			
BMS			

A&V	BUSSMAN	LITTLE FUSE
CNR-01	1A5600	
CSC-02	1A5602	100056
CSC-05	HTC-200M	01110005MR
CSA-02		
CSA-03		
FMX	FMX	JCASE
GMT	GMT	481
FSO	SFE	307/SFE
HPT	HLT/HLS	
LPA-01	ннк	FNY1
LPA-02		
LPA-03	HFB	
LPA-04	ННВ	
LPA-05	HHN	FNY20/30
LPA-07		
LPA-08		
LPA-09		155020A
LPC-02	ННТ	150274
LPC-08		
LPM-01	HHM/HHL	FHM-1 FHM-2
LPM-04-I		111101-2
LPM-08		
LPR-01	HHC/HHD	FHA-1
LPR-02	HHF/HHG	FHA-2 FHAC-1 FHAC-2
LPR-03		TTAC-2
LPR-04-I		
LPR-08		
LPX-01		
LPX-02	ННХ	MAH
LPX-04-I		
MCF	GDA	216
MCS	S505	215
MFF	EFF	622(LT5)
MFS	ETF	623(LT5)
MGGA	AMG MEGA	298/MEG
	MEGA	I]

A&V	BUSSMAN	FUSE
MGF	GMA	235
MGS	GMD	239
MID	AMI	498/MIDI
МОСВ-Н	122A**C6MKA 125A**C6MKA	
MOCB-N	122A**00MKA 125A**00MKA	
MOCB-V	122A**B6MKA 125A**B6MKA	
MRCB-H		
MRCB-N		
MRCB-V		
PFF	MCR	251
PFS		473
PHC	HTC-50M	345121
PMA-KB-03- Q2S	НКР-НН	
PMAKS01		
PMAKS02		
PMC-DS		
PMGKB01		
PMGKB02		
PVC-01	HTC-45M	
RS30		30R
RS60		60R
SMCF	6125FA	451
SMCS	6125TD	452
TFLB	FLB	295/PAL2
TFLD	FLD	283/PAL4
TFLF	FLF	293/PAL
TFLM	FLM	294/PAL1
TFLN	FLN	2935/PAL5
TFLP		2935/PAL5
TFLS	FLS	2938/PAL8
TR	FRN-R	FLNR
TRM	FNM	
TRS	FRNS-R	FLSR
XMCF		
XMCS		
XMGF		
XMGS		
	1	1