

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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TRANSPORTATION PRODUCTS

Solutions for the Transportation Industry

Circuit Protection • Power Distribution • Wiring Accessories

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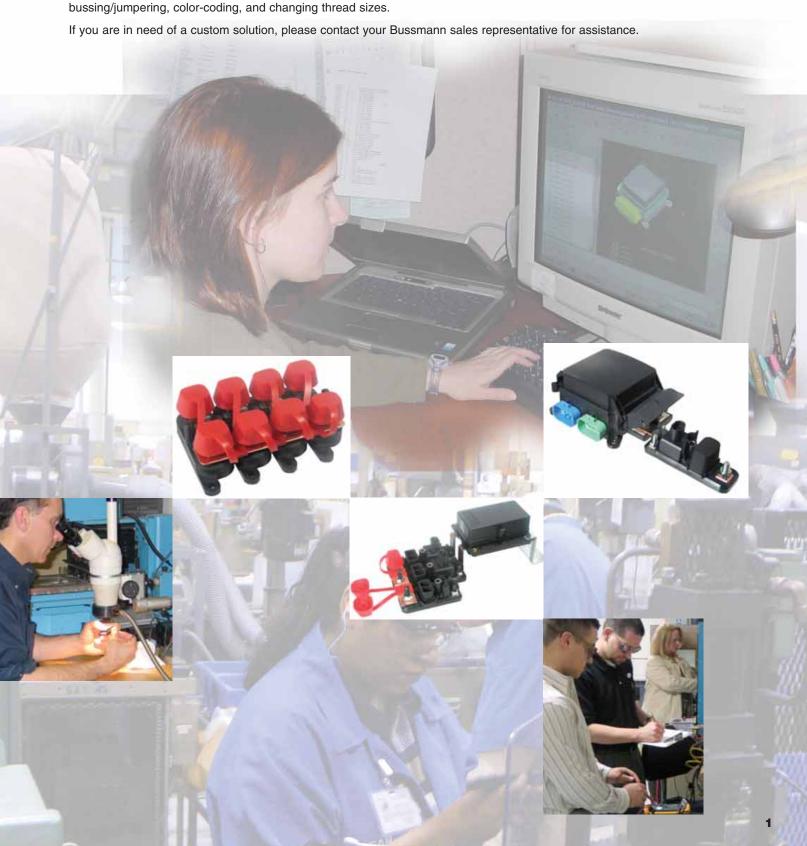


Custom Solutions For Power Distribution

Cooper Bussmann plays a key role in developing custom solutions for vehicle power distribution applications.

Once a product need is identified, an innovative team of design engineers works closely with the customer to discuss their needs. This enables our team to design and develop custom solutions tailored to meet specific customer requirements.

Many custom solutions include developing linkage systems to join two or more of our products together. This allows the customer "one-stop shopping" to create their vehicle electrical system. Other examples include bussing/jumpering, color-coding, and changing thread sizes.



SERIES 31000/32000 VEHICLE ELECTRICAL CENTERS

Cooper Bussmann's Single Vehicle Electrical Center (VEC) and Dual Vehicle Electrical Center (DVEC) are widely used Transportation Industry power distribution modules. The VEC & DVEC use patented programmable 3D matrix technologies that can be easily modified to accommodate changes to an electrical system. These can be customized for each specific electrical system, but require no tooling for implementation.

The VEC & DVEC accept automotive components including fuses, relays, circuit breakers, diodes, and other devices that have 2.8mm wide terminals on 8.1mm centerline spacing. (See page 5 for additional available components.) The compact size of the VEC (about 4"x4") and larger size of the DVEC (approximately 8"x4") provide for high component density. VEC's provide either 8.0mm bladed inputs or M8/M6 stud inputs. The VEC can accommodate up to 2 input connectors - 4 bladed inputs or 2 studs - and 4 output connectors. The DVEC can accommodate up to twice this amount. (Some designs may limit the number of connectors available for use.)

SPECIFICATIONS

Input Terminal Rating: 8.0mm blade terminals (60A max per terminal); M8/M6 input studs (100A max per terminal). 200A max total for VEC, 400A max total for DVEC.

Output Terminal Rating: 2.8mm blade terminals (30A max per terminal).

Temperature Rating: -40°F (-40°C) to 260°F (125°C). **Materials:** Thermoplastic housing and connectors; Tin-plated copper internal grid.

Termination: Delphi Packard Metri-Pack® 280 Series terminals (sealed/unsealed & tanged/tangless) or AMP® terminals.* Delphi Packard 280 Series cavity plugs are installed where wires are not used.* Accepts #10-22 AWG wire sizes.

Mounting Torque Rating: 24in-lb (2.7Nm) max. Mounting Orientation: Unit cannot be installed upsidedown. Consult factory for proper mounting orientations. Ingress Protection Rating: IP55.

OPTIONS

Cover: Vented (VEC), Solid with gasket (VEC/DVEC), Solid without gasket (DVEC), or none provided.

Cover Label: Inside cover, outside cover (VEC only), or none provided.

Input Style: 8.0mm blade terminals or studs (M8/M6). **Mounting:** External feet with mounting holes (VEC/DVEC) or internal mounting holes (VEC only).

Components: Fuse, breaker, relay, etc. installation to be specified by customer.

Severe Service: Added environmental protection available. Consult factory.

Fuse/breaker Extraction Tool: See page 27.

Each design is customer specific. Consult your sales rep today for your application.

*Electrical terminals, cable seals & cavity plugs are NOT supplied by Cooper Bussmann.

APPLICATIONS

The VEC/DVEC is ideal for distributed main power as well as auxiliary "add-on" applications. Current VEC/DVEC applications include Class 3-8 trucks, buses, chassis and RV, Con-Ag equipment, marine specialty vehicles, and automotive power distribution systems.

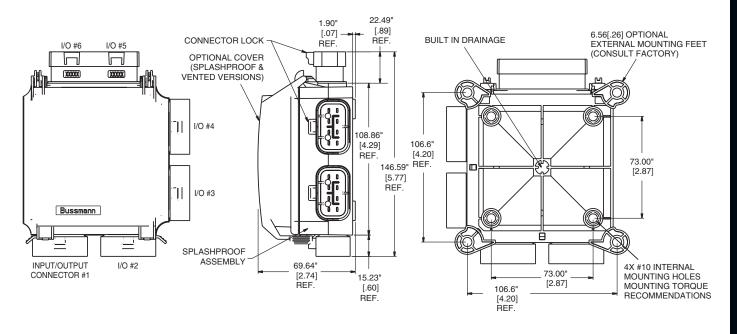
BENEFITS

The customizable designs of the VEC/DVEC enable them to incorporate many different devices and multiple design variations. Splices in the harness can also be eliminated by internally programming them into the grid matrix. The inputs (connector or stud) and outputs (connector) of the VEC/DVEC are color-coded and keyed, and provide quick installation. This makes the module easy to service. The largest benefit of these modules are the reduced lead times and **zero** tooling cost.

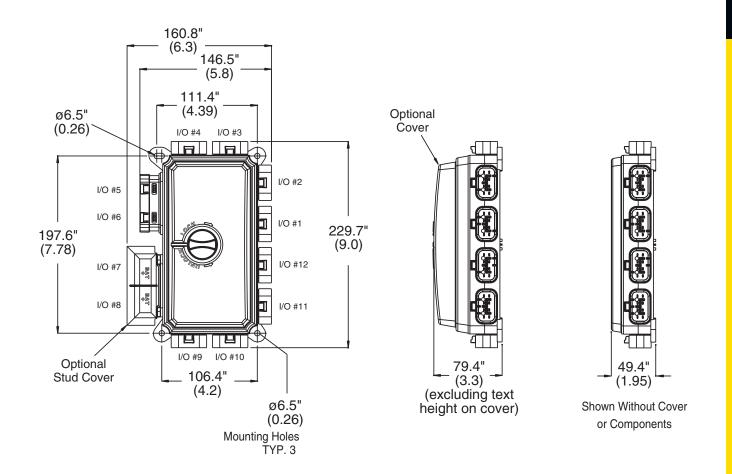


SERIES 31000/32000 VEHICLE ELECTRICAL CENTERS

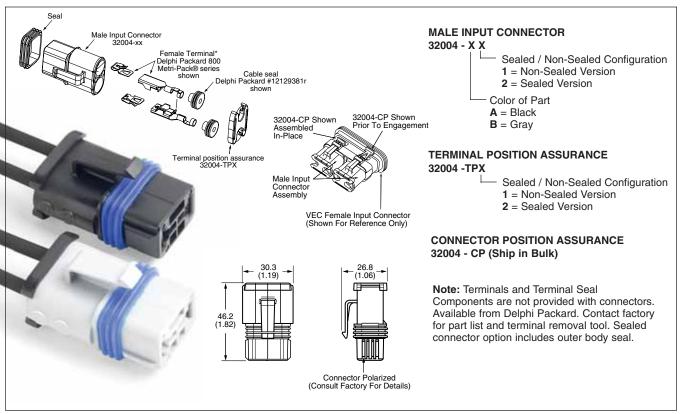
DIMENSIONS 31000 SERIES VEC (Dims. shown are for reference only. Consult factory for latest prints)



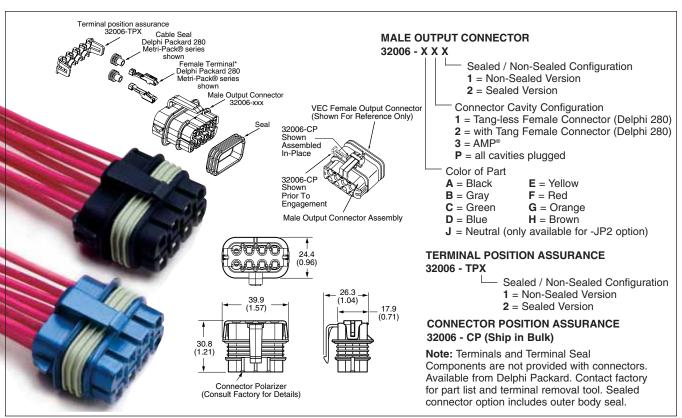
DIMENSIONS 32000 SERIES DVEC (Dims. shown are for reference only. Consult factory for latest prints)



VEHICLE ELECTRICAL CENTER CONNECTORS



(Dims.shown are for reference only. Consult factory for latest prints)



(Dims.shown are for reference only. Consult factory for latest prints)

ELECTRICAL COMPONENTS

Series 229 Diode, Resistor, and Transorb

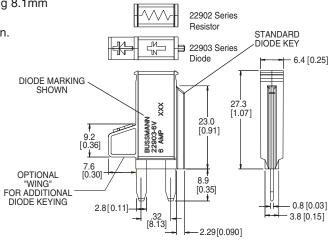
SPECIFICATIONS (Dims. shown are for reference only. Consult factory for latest prints)

Ratings: Consult Factory for Available Ratings and part numbers Materials: Grey 94V-0 thermoplastic housing with metal cover.

Termination Type: Compatible with 280 Type fuse blocks using 8.1mm

Diode Key Feature: Standard key denotes installation direction. Extended key available for error-proof installation in VEC.





[0.48]

TVS

22901 Series

Transorb

Relays (Only Available for VEC, DVEC, or RTMR Applications.)

SPECIFICATIONS

Types: 5-pin mini-relay, 12 VDC & 24 VDC 5-pin micro-relay, 12 VDC & 24 VDC 4-pin mini-micro relay, 12 VDC

Consult Factory for Available Amperage Ratings Termination Type: Compatible with 280 Type fuse blocks using 8.1mm centerline.

Sealed versions of some relays also available.



VEC ACCESSORIES

Series 32016 (Terminal Seals) & **Series 32017** (Cavity Plugs)

the VEC input connector 1 (Series 32004), terminal seals provide a sealed fit between the wire terminals and connector. Cavity plugs can be used to seal unused terminal positions.

Series 32011 (Input Connector Cap) & Series 32012 (Output Connector Cap)

Connector caps can be assembled to the mating VEC harness connectors (Series 32004 & 32006) when not in use.



SERIES 15300 RTMR

Rear Terminal Mini Fuse & Relay Power Distribution Module



The Rear Terminal Mini Fuse and Relay panel (RTMR) provides efficient power distribution in a rugged compact form for applications in marine, construction, agriculture, heavy trucking, specialty vehicles, etc. This innovative product offers a weather tight enclosure (*IP66/67*) for various MINI (2.8mm) blade components when cover, cable seals, and cavity plugs are installed. It is available with various degrees of internal electrical bussing. Additionally, custom labels and multiple hardware configurations are available to solve any application need.

SPECIFICATIONS

Input Terminal Rating: M6 input studs on bussed/partially bussed inputs: 80A max input on bussed fuse side, 80A max input on bussed relay side.

Output Terminal Rating: 2.8mm blade terminals (30A max per terminal)

Temperature Rating: -40°F (-40°C) to 260°F (125°C). **Materials:** Black thermoplastic housing; Tin-plated copper internal bussing; Bright nickel-plated brass studs (on bussed versions).

Termination: Delphi Packard Metri-Pack® 280 Series terminals (sealed/tangless) or AMP® terminals.* Delphi Packard 280 Series cavity plugs are installed where wires are not used.* Accepts #12-22 AWG wire sizes.

Torque Rating: 75in-lb (8.5Nm) max.

Mounting Torque Rating: #10-32 or M5 threaded inserts; 24in-lb (2.7Nm) max torque.

Ingress Protection Rating: IP66-IEC 60529 (Valid when properly installed with cover, sealed terminals, and cavity plugs.) IP67 (Same requirements as IP66, but also needs a periodic - 3-9 months - coating of silicone lubricant applied to green base seal.)

OPTIONS

End Caps: Protective silicone end caps available for studded versions.

Mounting: Mounting brackets available for surface-mounting RTMR. (See page 7.)

Labels: Consult factory for custom label options.

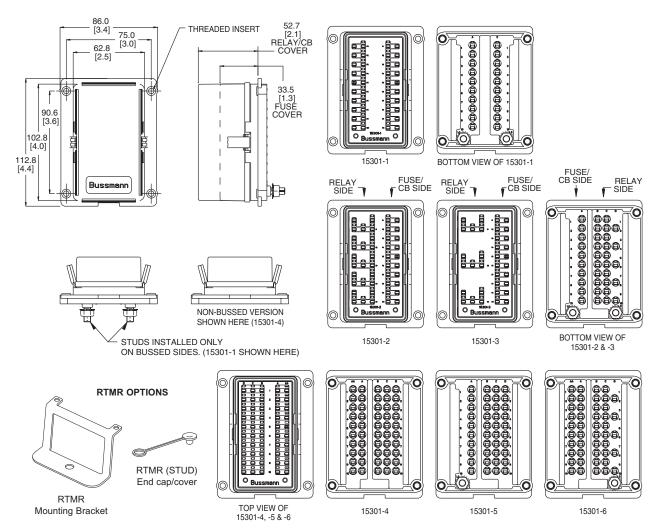
Replacement Accessories: Consult factory for available service parts.

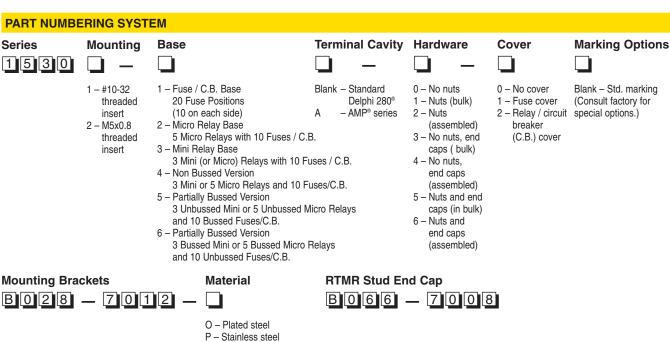
*Electrical terminals, cable seals & cavity plugs are NOT supplied by Cooper Bussmann.



SERIES 15300 RTMR

DIMENSIONS (Dims. shown are for reference only. Consult factory for latest prints)





SERIES 37700 PRM/PFM

Power Relay Module Power Distribution Module & Fuse Block

Cooper Bussmann offers a *sealed* Power Relay Module (PRM) along with an accompanying Power Fuse Module (PFM). These compact power distribution modules are designed for high current applications, and are suitable for placement in extreme moisture and high vibration environments. The PRM contains a 70A relay and two female fuse positions. One of these fuses protects the relay and the other is a single-circuit inline fuse. The PFM contains only two fuses - each a separate circuit. A silicone seal and removable cover offer a weather-tight enclosure for the fuse positions. PRMs/PFMs also feature rugged M8 power input studs. Multiple units may be connected together via a custom buss bar, or can be bussed to any of Cooper Bussmann's PDMs (i.e. 31000/32000 Series VEC/DVEC, 15300 Series RTMR, etc.)



SPECIFICATIONS

PRM Rating: 70A, 12VDC steady-state relay; 24VDC relay also available. Relay protection fuse: up to 60A; Non-switched inline fuse: up to 60A.

PFM Rating: Each inline fuse rated up to 60A. **Temperature Rating:** -40°F (-40°C) to 185°F (85°C). **Materials:** UL-Rated 94V-0 thermoplastic (excluding cover;) Silicone seal; Tin-plated copper terminals; Plated steel

Input Termination: M8 threaded stud. PRM

Switching/Trigger Signal: Delphi Packard Metri-Pack® 150

Series; AMPSEAL® 16.*

studs.

Output Termination Option: Bussmann Series 32004 sealed connector (see page 4); Accepts Delphi Packard 800 series terminals.* Two M6 threaded studs.

Torque Rating: Input stud: 144in-lb (16.3Nm) max.; Output

stud: 48in-lb (5.4Nm) max.

Mounting Torque Rating: 48in-lb (5.4Nm) max. **Ingress Protection Rating:** IP66 (excluding stud connections)

OPTIONS

Mounting: Counter rotation feature (CRF) available to prevent rotation on single bolt installations.

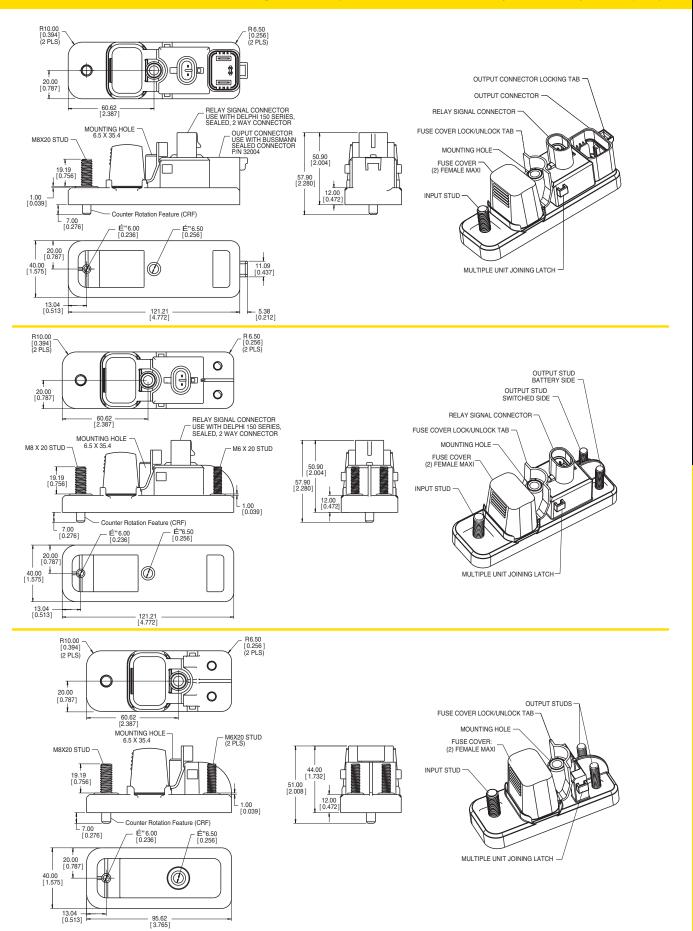
Bussing: Custom bussing available for joining multiple PRMs/PFMs. Options also available for bussing PRMs/PFMs to other Bussmann power distribution modules

Accessories: Stud caps, separators, service components. Consult factory for details.

*Electrical terminals are NOT supplied by Cooper Bussmann.

PART NUMBERING S	SYSTEM						
Series/ Module Type 3 7 7 0 1 —	Output/Signal Connector Type	Signal Key (PRM only)	Output Key	Nonswitched Value	Switched Fuse (Right Side)	Cover Option	Hardware Option
37702 — 12V PRM							
37703 — 24V PRM							
	*1 – Stud/Delphi 2 – Connector/Delphi 3 – Stud/AMP® 4 – Connector/AMP®	A – Black (Delphi only) B – Grey (AMP° or Delphi) C – Green (AMP° only) F – Red (AMP° only) Y – Yellow (AMP° only)	N – Stud output (no key) A – Black B – Grey	0 - None 2 - 20 amps 3 - 30 amps 4 - 40 amps 5 - 50 amps 6 - 60 amps	0 - None 2 - 20 amps 3 - 30 amps 4 - 40 amps 5 - 50 amps 6 - 60 amps	0 – No cover 1 – Cover (bulk) 2 – Cover (installed)	0 - None 1 - Nuts (bulk) 2 - Nuts (installed) 3 - CRF 4 - CRF, nuts (bulk) 5 - CRF, nuts (installed)
	*PFM always uses this of	option.					

SERIES 37700 PRM/PFM (Dims. shown are for reference only. Consult factory for latest prints)



SERIES 15710 REAR TERMINAL ATC® FUSE BLOCK



The Rear Terminal ATC® Fuse Block (RTA) is a rear-fed panel with high component retention, which makes it an ideal choice for high vibration environments including construction, agriculture, bus, RV, heavy trucking equipment, etc. It is available in multiple lengths and internal bussing configurations. This allows for up to three separate power input circuits and 32 individual output circuits.

SPECIFICATIONS

Input Terminal Rating: 1/4-20 stud; Quick-connect terminals provided on

middle bus (Series 15713). 200A max total input for unit. Output Terminal Rating: 30A max load per circuit. **Temperature Rating:** -40° F (-40° C) to 260° F (125° C).

Materials: Black thermoplastic.

Termination: Delphi Packard Pack-Con® Series 3 & 5.* Input Wire Size: #4-6

AWG. Output Wire Size: #10-16 AWG. Torque Rating: 50in-lb (5.6Nm) max.

Mounting Torque Rating: #10-32 threaded inserts, 24in-lb (2.7Nm) max torque.

OPTIONS

Positions: 8-32 circuits available.

Split Power: Single, dual, or triple bus options.

Cover: Splash-resistant covers available. Short cover for fuses only, and taller

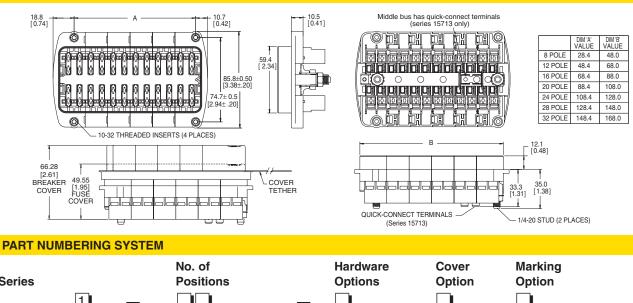
cover for use with circuit breakers.

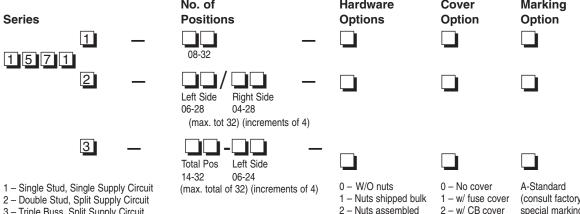
Locks: Secondary locks available for securing of output terminals (#15710-TP). (Comes in multiples of 8 positions. Must order multiple strips to cover length of selected RTA.)

Tools: Output terminal removal tool (#HT15710-01). Secondary lock removal tool (#HT15710-02).

*Electrical Terminals are NOT supplied by Cooper Bussmann.

DIMENSIONS (Dims. shown are for reference only. Consult factory for latest prints)





- 3 Triple Buss, Split Supply Circuit

- 2 Nuts assembled
- (consult factory for
 - special marking

SERIES 15600 ATC® Blade-Type Fuse Panels



The 15600 ATC® fuse block is a compact, yet rugged, power distribution module. It is available in a single or dual internal buss electrical configuration featuring an optional ground pad terminal strip. The 15600 fuse block is surface mounted, uses convenient quick-connect terminals, and is recommended as a supplemental power distribution module. It can be used to accompany main PDMs such as the Bussmann 31000/32000 Series VEC/DVEC, 15710 Series RTA, and the 15301 Series RTMR.

SPECIFICATIONS

Input Terminal Rating: #10-32 threaded studs (100A max).

Output Terminal Rating: 30A max per circuit. **Temperature Rating:** -20°F (0°C) to 150°F (65°C).

Materials: Black thermoplastic.

Termination: .250" x .032" quick-connect terminals. Ground terminal pad option available. Input wire size: #4-6

AWG. Output wire size: #12-16 AWG. **Torque Rating:** 20in-lb (2.25Nm) max.

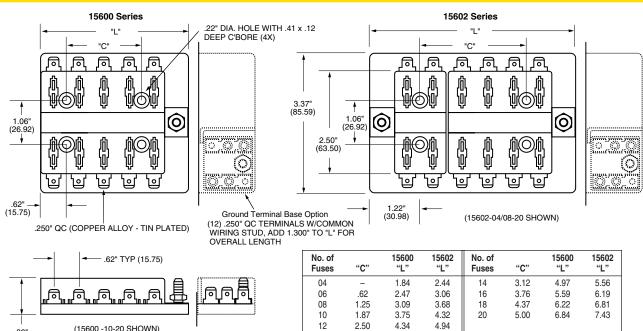
Mounting Torque Rating: 8in-lb (0.9Nm) max.

OPTIONS

Dimensions in inches. Multiply by 25.4 for metric.

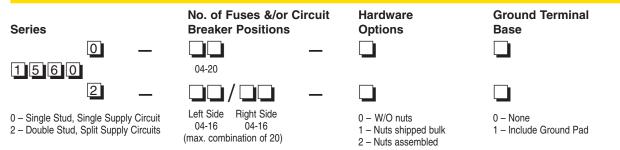
Positions: 4-20 circuits available. **Split Power:** Single or dual buss options.

DIMENSIONS (Dims. shown are for reference only. Consult factory for latest prints)



PART NUMBERING SYSTEM

(20.32)



HMG FUSEHOLDER

Automotive Bolt-In Fuseholder for the AMG Fuse



The HMG fuse holder accepts industry standard AMG fuses for primary fusing applications. The narrow rugged body makes it ideal for demanding environments such as 'under the hood' locations in construction, agriculture, heavy trucking, and specialty vehicle applications.

SPECIFICATIONS

Rating: For use with AMG fuses from 100-300A.

Temperature Rating: -40°F (-40°C) to 260°F (125°C).

Materials: Black thermoplastic with zinc-plated steel studs.

Termination: M8 or 5/16-18 threaded studs and hex nuts

for fuse mounting. Wire sizes: #2-8 AWG. **Torque Rating:** 150in-lb (17Nm) max.

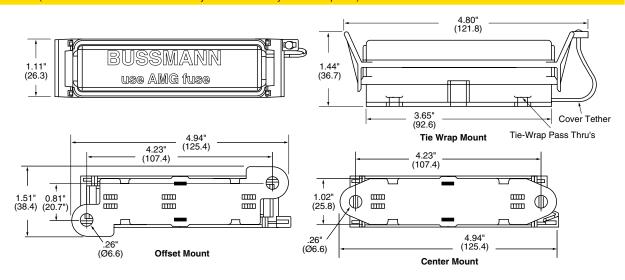
Mounting Torque Rating: Optional mounting hole

patterns, 44in-lb (5Nm) max.

FEATURES

- Side-stackable
- Bottom side insulated from mounting panel.
- Splash resistant cover.

DIMENSIONS (Dims.shown are for reference only. Consult factory for latest prints)



PART NUMBERING SYSTEM

Series HMG

Base I

- 1 Tie wrap mount
- 2 Offset mounted
- 3 Center mounted*

Hardware



- 1 5/16-18 Studs w/nuts installed
- 2 5/16-18 Studs w/nuts bulk
- 3 5/16-18 Studs w/o nuts
- 4 M8 x 1.25 studs w/nuts installed
- 5 M8 x 1.25 studs w/nuts bulk
- 6 M8 x 1.25 studs w/o nuts

Style _

- 0 No cover
- 1 Cover installed
- 2 Cover bulk

Options



Consult factory for Bus Bar options

^{*}Consult factory for availability.

FMG FUSEHOLDER

Full Access Automotive Bolt-In Fuseholder for the AMG Fuse



The FMG fuse holder accepts industry standard AMG fuses for primary fusing applications. The FMG is offered with a tough elastomer cover for fuse protection, yet allows for cable input from various orientations. This fuse holder cover is available in multiple colors and lengths. Similar to Bussmann's HMG holder, the FMG is well suited for demanding environments such as 'under the hood' locations in construction, agriculture, heavy trucking, and specialty vehicle applications.

SPECIFICATIONS

Rating: For use with AMG fuses from 100-300A. Temperature Rating: -40°F (-40°C) to 260°F (125°C).

Materials: Black thermoplastic with zinc-plated steel studs; thermoplastic elastomer cover.

Termination: M8 or 5/16-18 threaded studs and hex nuts for fuse mount-

ing. Wire sizes: #2-8 AWG.

Torque Rating: 120in-lb (13.5Nm) max.

Mounting Torque Rating: 1/4-20 screws with washers (recommended),

44in-lb (5Nm) max.

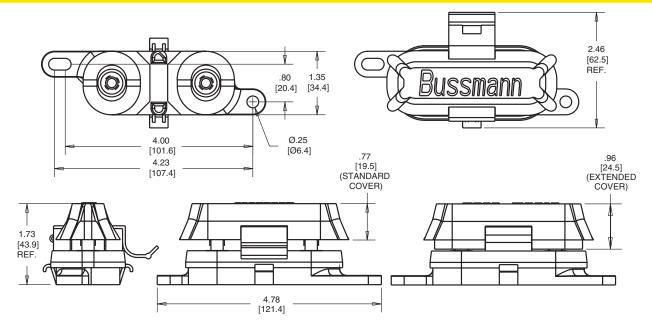
OPTIONS

Cover: Available in black or red. Extended cover length also available.

FEATURES

Full access for cables. Can be routed to studs from nearly every direction.

DIMENSIONS (Dims.shown are for reference only. Consult factory for latest prints)



PART NUMBERING SYSTEM

Series F M G

Base



Hardware

0 - No hardware installed 1 - Nuts installed

2 – Nuts bulk

0 - No cover 1 - Cover (black) installed

2 - Cover (black) bulk 4 - Cover (red) installed

Cover

- 5 Cover (red) bulk
- 6 Extended Cover (black) installed 7 - Extended Cover (black) bulk
- 8 Extended Cover (red) installed
- 9 Extended Cover (red) bulk

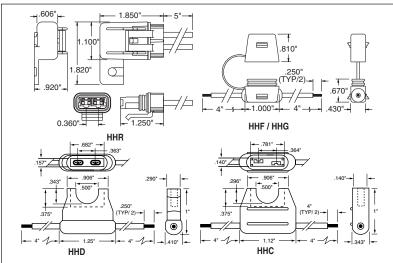
INLINE FUSEHOLDERS

In-Line Fuseholders for Blade-Type Fuses

HHC, HHD, HHF, HHG, HHR, and HHS

In-Line Fuseholders for ATC® Blade-Type Fuses. Rating: 32V, See table for max. amp. "Write-in" space for circuit identification on HHC holder. Plastic cover fits only HHD holder. HHR holder is waterproof with a locking cover and mounting hole. HHS is a self-stripping holder.





Dimensions in inches. Multiply by 25.4 for metric. (Dims. Shown are for reference only. Contact factory for latest prints)

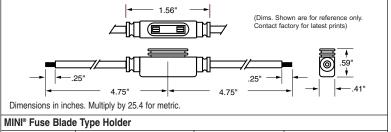
ATC® Blade Type Holder

Catalog No.	Description	Fuse Size	Electrical Connection
HHC	Yellow fuseholder (body only)	1–20 A	#16 AWG lead black wire
HHD	Black fuseholder (body only)	1–30 A	#12 AWG lead yellow wire
HHD-C	Cover only	Fits only HHD	Clear polycarbonate
HHF	Black fuseholder w/cover	1–20 A	#16 AWG lead yellow wire
HHG	Black fuseholder w/cover	1–30 A	#12 AWG lead yellow wire
HHR	Black waterproof fuseholder w/locking cover & mounting hole	1–30 A	#12 AWG lead orange wire 5" length
HHS Blue fuseholder		1–20 A	Self-stripping; accepts #18- #14 AWG copper wire only

HHL and HHM

In-Line Fuseholders for ATM MINI® Fuses. **Rating:** 32V, See table for max. amp. Body material withstands high temps. Protective cover has removable straps. Rated IP67 with cover installed.



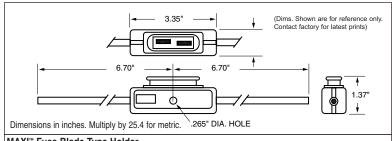


Catalog No.	Description	Fuse Size	Electrical Connection	
HHL	Fuseholder w/cover	2-20 A	#16 AWG lead black wire;	
HHL-B	Body only	2-20 A	4" length	
ННМ	Fuseholder w/cover			
HHM-B	Body only	2–30 A	#12 AWG lead red wire; 4" length	
HHM-C	Cover only		4 letigui	

HHX

In-Line Fuseholder for MAXI™ Fuses. **Rating:** 32V, 60A Max. Firewall mounting hole permits two or more holders to be mounted together. Cover comes with a removable strap.





MAXI. Lase Blac	ie Type Holder		
Catalog No.	Description	Fuse Size	Electrical Connection
HHX	Fuseholder w/cover		
HHX-B	Body only	20-60 amps	#6 lead wire; 5" length
HHX-C	Cover only		5 lengui

SERIES 15250

Battery Disconnect Switch



SPECIFICATIONS

Applications: A non-fused current interrupt disconnect designed for opening the circuit between a battery and the complete electrical load of a battery-powered system.

Rating: 400A continuous,. 50VAC/VDC. Vehicle cranking and max. surge currents to 2,000A (based on 20% duty cycle with ON times of 5 seconds max.).

Temperature Rating: -40°F (-40°C) to 150°F (65°C).

Termination: 1/2-13 Copper alloy stud. **Torque Rating:** 420in-lb (47.5Nm) max.

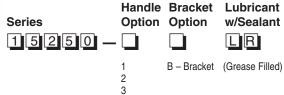
Mounting Torque Rating: With mounting brackets: 48in-lb (5.4Nm) max; without mounting brackets: 10in-lb (1.1Nm)

OPTIONS

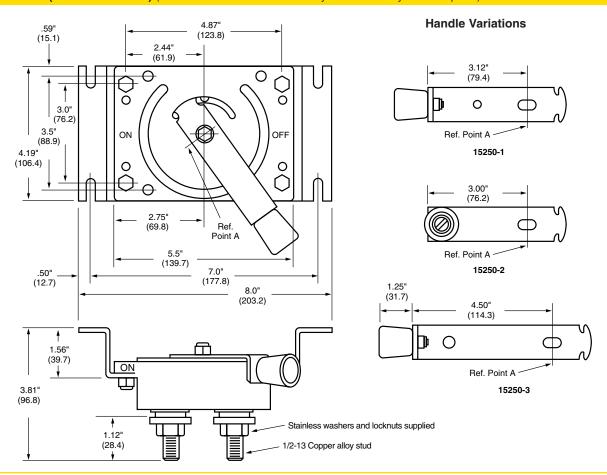
Handles: Three handle styles available.

Other: Lubricant-filled body with silicone sealant.

PART NUMBERING SYSTEM



DIMENSIONS (15250-1B Shown) (Dims. shown are for reference only. Consult factory for latest prints)



STUD TYPE JUNCTION BLOCKS

SPECIFICATIONS

Applications: Heavy-duty ground or power connection points in AC or DC circuits. Feed-thru or stand alone mount options available for transformers, communication and computer power sections along with various vehicle electrical systems.

Mounting Torque Rating: 48in-lb (5.4Nm) max.

FEATURES

Modular design offers design and manufacturing flexibility.

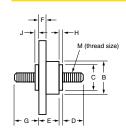
Suggested Max. Termination Ratings:

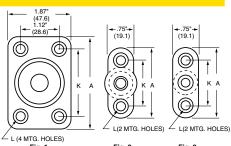
Th	read/S	Stud Si	ze		Amp	erages	i	
	#1/4 #5, #3	10 & M6 /16 8/8 /2			100 200 250	amps amps amps amps amps		
Part	Fig.	Α	В	С	D	E	F	
1005*	- 1	0.75	1 5	1 05	1 05	1 10	27	



(Dims. shown are for reference only. Consult factory for latest prints)

DIMENSIONS





	#	1/2			400	amps							ig. 1	Fig. 2	Fig. 3	
Part	Fig.	Α	В	С	D	Е	F	G	Н	J	K	L	M	Max. Torque (in-lb)	Material	Color
C1925*	1	2.75 (69.8)	1.5 (38.1)	1.25 (31.7)	1.25 (31.7)	1.12 (28.6)	.37 (9.5)	1.12 (28.6)	.19 (4.8)	.19 (4.8)	2.0 (50.8)	.22 dia. w/.44 dia. C'bore x .16 deep	1/2-13	300	Thermoplastic / Zinc plated Brass	Red
C1925B*	1	2.75 (69.8)	1.5 (38.1)	1.25 (31.7)	1.25 (31.7)	1.12 (28.6)	.37 (9.5)	1.12 (28.6)	.19 (4.8)	.19 (4.8)	2.0 (50.8)	.22 dia. w/.44 dia. C'bore x .16 deep	1/2-13	300	Thermoplastic / Zinc plated Brass	Black
C1925-1*	1	2.75 (69.8)	1.5 (38.1)	1.25 (31.7)	1.25 (31.7)	1.12 (28.6)	.37 (9.5)	1.12 (28.6)	.19 (4.8)	.19 (4.8)	2.0 (50.8)	.22 dia. w/.44 dia. C'bore x .16 deep	1/2-13	300	Thermoplastic / Tin plated Brass	Red
C1925-1B*	1	2.75 (69.8)	1.5 (38.1)	1.25 (31.7)	1.25 (31.7)	1.12 (28.6)	.37 (9.5)	1.12 (28.6)	.19 (4.8)	.19 (4.8)	2.0 (50.8)	.22 dia. w/.44 dia. C'bore x .16 deep	1/2-13	300	Thermoplastic / Tin plated Brass	Black
C1925-2*	1	2.75 (69.8)	1.5 (38.1)	1.25 (31.7)	1.25 (31.7)	1.12 (28.6)	.37 (9.5)	1.12 (28.6)	.19 (4.8)	.19 (4.8)	2.0 (50.8)	.22 dia. w/.44 dia. C'bore x .16 deep	3/8-16	150	Thermoplastic / Tin plated Brass	Red
C1925-2B*	1	2.75 (69.8)	1.5 (38.1)	1.25 (31.7)	1.25 (31.7)	1.12 (28.6)	.37 (9.5)	1.12 (28.6)	.19 (4.8)	.19 (4.8)	2.0 (50.8)	.22 dia. w/.44 dia. C'bore x .16 deep	3/8-16	150	Thermoplastic / Tin plated Brass	Black
C1933	1	2.75 (69.8)	1.44 (36.6)	1.25 (31.7)	1.5 (38.1)	1.12 (28.6)	.37 (9.5)	None	.19 (4.8)	None	2.0 (50.8)	.22 dia.	1/2-13	300	Thermoplastic / Zinc plated Brass	Black
C1933-1	1	2.75 (69.8)	1.44 (36.3)	1.25 (31.7)	1.5 (38.1)	1.12 (28.6)	.37 (9.5)	None	.19 (4.8)	None	2.0 (50.8)	.22 dia.	5/16-18	75	Thermoplastic / Zinc plated Brass	Black
C1938*	2	2.06 (52.4)	.94 (23.8)	.69 (17.5)	.87 (22.2)	.69 (17.5)	.31 (7.9)	.94 (23.8)	.06 (1.6)	.06 (1.6)	1.31 (33.3)	.22 dia. w/.41 dia. C'bore x 14 deep	3/8-16	150	Thermoplastic / Zinc plated Brass	Black
C1938R*	2	2.06 (52.4)	.94 (23.8)	.69 (17.5)	.87 (22.2)	.69 (17.5)	.31 (7.9)	.94 (23.8)	.06 (1.6)	.06 (1.6)	1.31 (33.3)	.22 dia. w/.41 dia. C'bore x 14 deep	3/8-16	150	Thermoplastic / Zinc plated Brass	Red
C1938-1*	2	2.06 (52.4)	.94 (23.8)	.69 (17.5)	.87 (22.2)	.69 (17.5)	.31 (7.9)	.94 (23.8)	.06 (1.6)	.06 (1.6)	1.31 (33.3)	.22 dia. w/.41 dia. C'bore x 14 deep	5/16-18	75	Thermoplastic / Tin plated Brass	Black
C1938-1R*	2	2.06 (52.4)	.94 (23.8)	.69 (17.5)	.87 (22.2)	.69 (17.5)	.31 (7.9)	.94 (23.8)	.06 (1.6)	.06 (1.6)	1.31 (33.3)	.22 dia. w/.41 dia. C'bore x 14 deep	5/16-18	75	Thermoplastic / Tin plated Brass	Red
C2791*	3	2.06 (52.4)	.69 (17.5)	.44 (11.2)	.62 (15.9)	.69 (17.5)	.31 (7.9)	.69 (17.5)	.06 (1.6)	.06 (1.6)	1.31 (33.3)	.22 dia. w/.41 dia. C'bore x .14 deep	1/4-20	30	Thermoplastic / Zinc plated Brass	Black
C2791-R*	3	2.06 (52.4)	.69 (17.5)	.44 (11.2)	.62 (15.9)	.69 (17.5)	.31 (7.9)	.69 (17.5)	.06 (1.6)	.06 (1.6)	1.31 (33.3)	.22 dia. w/.41 dia. C'bore x .14 deep	1/4-20	30	Thermoplastic / Zinc plated Brass	Red
C2909*	3	2.06 (52.4)	.69 (17.5)	.44 (11.2)	.62 (15.9)	1.0 (25.4)	.31 (7.9)	.69 (17.5)	.06 (1.6)	.06 (1.6)	1.31 (33.3)	.22 dia. w/.41 dia. C'bore x 14 deep	10-32	24	Thermoplastic / Zinc plated Brass	Black
C2909-1*	3	2.06 (52.4)	.69 (17.5)	.44 (11.2)	.62 (15.9)	1.0 (25.4)	.31 (7.9)	.69 (17.5)	.06 (1.6)	.06 (1.6)	1.31 (33.3)	.22 dia. w/.41 dia. C'bore x 14 deep	1/4-20	30	Thermoplastic / Zinc plated Brass	Black
C4044*	2	2.06 (52.4)	.87 (22.2)	.62 (15.9)	.62 (15.9)	1.12 (28.6)	.31 (7.9)	.94 (23.8)	.06 (1.6)	.06 (1.6)	1.31 (33.3)	.22 dia. w/.41 dia. C'bore x .14 deep	3/8-16	150	Thermoplastic / Zinc plated Brass	Black
C4044-1*	2	2.06 (52.4)	.87 (22.2)	.62 (15.9)	.62 (15.9)	1.12 (15.9)	.31 (7.9)	.94 (23.8)	.06 (1.6)	.06 (1.6)	1.31 (33.3)	.22 dia. w/.41 dia. C'bore x .14 deep	3/8-16	150	Thermoplastic / Tin plated Brass	Black
C4044-1R*	2	2.06 (52.4)	.87 (22.2)	.62 (15.9)	.62 (15.9)	1.12 (15.9)	.31 (7.9)	.94 (23.8)	.06 (1.6)	.06 (1.6)	1.31 (33.3)	.22 dia. w/.41 dia. C'bore x .14 deep	3/8-16	150	Thermoplastic / Tin plated Brass	Red
C5898*	2	2.06 (52.4)	.94 (23.8)	.69 (17.5)	.87 (22.2)	.69 (17.5)	.31 (7.9)	.94 (23.8)	.06 (1.6)	.06 (1.6)	1.31 (33.3)	.22 dia. w/.41 dia. C'bore x .14 deep	3/8-16	150	Thermoplastic / Zinc plated Brass	Red
C6344-2	2	2.06 (52.4)	.87 (22.2)	.62 (15.9)	.62 (15.9)	1.12 (15.9)	.31 (7.9)	None	.06 (1.6)	None	1.31 (33.3)	.22 dia. w/.41 dia. C'bore x .14 deep	1/2-20	150	Thermoplastic / Zinc plated Steel	Black
C7018*	3	2.06 (52.4)	.69 (17.5)	.44 (11.2)	.47 (11.9)	.69 (17.5)	.31 (7.9)	.53 (13.5)	.06 (1.6)	.06 (1.6)	1.31 (33.3)	.22 dia. w/.41 dia. C'bore x 14 deep	M6	55	Thermoplastic / Zinc plated Steel	Black
C7020*	2	2.06 (52.4)	.94 (23.8)	.69 (17.5)	.88 (22.2)	.69 (17.5)	.31 (8.0)	1.25 (31.8)	.06 (1.6)	.06 (1.6)	1.31 (33.3)	.22 dia. w/.41 dia. C'bore x 14 deep	3/8-16	150	Thermoplastic / Zinc plated Brass	Red
JB3816-2	2	2.12 (54.0)	.98 (24.9)	.62 (15.9)	.87 (22.2)	.69 (17.5)	.31 (7.9)	None	.06 (1.6)	None	1.37 (34.9)	.22 dia. w/.37 dia. C'bore x .14 deep	3/8-16	150	Thermoplastic / Zinc plated Sleel	Black
JB3816-3	2	2.12 (54.0)	.98 (24.9)	.62 (15.9)	.87 (22.2)	.69 (17.5)	.31 (7.9)	None	.06 (1.6)	None	1.37 (34.9)	.22 dia. w/.37 dia. C'bore x .14 deep	3/8-16	150	Thermoplastic / Zinc plated Sleel	Red
*Feed-thru		Options	s – Nuts	& washe	rs; consu	It factory.						·			•	

STUD TYPE JUNCTION BLOCKS (Non Feed-Thru)

Series C4559 & C6083

SPECIFICATIONS

Rating: 30A, 600V



Materials: Black thermoplastic with zinc-plated steel studs.

Termination: #10-24 threaded studs on .750" centers. Studs feature a "dog

point" to guide nut onto thread. **Torque Rating:** 25 in-lb (2.8Nm) max.

Mounting Torque Rating: 24in-lb (2.7Nm) max.

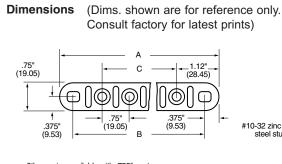
OPTIONS

Positions: 2-16 positions available.

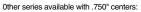
FEATURES

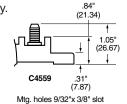
Numbers and arrows molded on top of barriers indicate terminals.

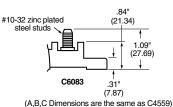
Compliances: UL/CSA; CE Certified.



ALALALALALALA A







Part No.	Α	В	С
C4559-2	3.00 (76.2)	2.25 (57.1)	0.75 (19.0)
C4559-3	3.75 (95.2)	3.00 (76.2)	1.50 (38.1)
C4559-4	4.50 (114.3)	3.75 (95.2)	2.25 (57.1)
C4559-5	5.25 (133.3)	4.50 (114.3)	3.00 (76.2)
C4559-6	6.00 (152.4)	5.25 (133.3)	3.75 (95.2)
C4559-7	6.75 (171.4)	6.00 (152.4)	4.50 (114.3)
C4559-8	7.50 (190.5)	6.75 (171.4)	5.25 (133.3)
C4559-9	8.25 (209.5)	7.50 (190.5)	6.00 (152.4)
C4559-10	9.00 (228.6)	8.25 (209.5)	6.75 (171.4)
C4559-11	9.75 (247.6)	9.00 (228.6)	7.50 (190.5)
C4559-12	10.50 (266.7)	9.75 (247.6)	8.25 (209.5)
C4559-13	11.25 (285.7)	10.50 (266.7)	9.00 (288.6)
C4559-14	12.00 (308.4)	11.25 (285.7)	9.75 (247.6)
C4559-15	12.75 (323.8)	12.00 (308.4)	10.50 (266.7)
C4559-16	13.50 (342.9)	12.75 (323.8)	11.25 (285.7)

Series C5237 & JB1032

SPECIFICATIONS

Rating: UL: 30A, 300V; CSA: 30A, 600V. **Temperature Rating:** 250°F (120°C)

Materials: Black thermoplastic with brass studs.

Termination: #10-32 threaded studs on .625" centers. Studs feature a "dog

point" to guide nut onto thread.

Torque Rating: 25 in-lb (2.8Nm) max.

Mounting Torque Rating: 24in-lb (2.7Nm) max.

OPTIONS

Positions: 1-15 positions available.

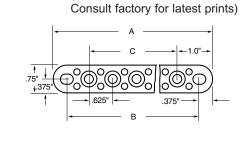
FEATURES

Numbers and arrows molded on top of barriers indicate terminals.

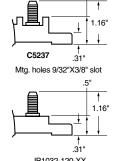
Compliances: UL/CSA; CE Certified.



(Dims. shown are for reference only.



Dimensions



JB1032-120-XX	
(No bosses between studs)	
A,B,C Dimensions are the same as C523	37

Part No.	Α	В	С
C5237-1	2.00 (50.8)	1.25 (31.7)	-
C5237-2	2.62 (66.7)	1.87 (47.5)	.625 (15.9)
C5237-3	3.25 (82.5)	2.50 (63.4)	1.25 (31.7)
C5237-4	3.87 (98.4)	3.12 (79.4)	1.87 (47.5)
C5237-5	4.50 (114.3)	3.75 (95.2)	2.50 (63.4)
C5237-6	5.12 (130.8)	4.37 (111.1)	3.12 (79.4)
C5237-7	5.75 (146.0)	5.00 (127.0)	3.75 (95.2)
C5237-8	6.37 (161.9)	5.62 (142.9)	4.37 (111.1)
C5237-9	7.00 (177.8)	6.25 (158.7)	5.00 (127.0)
C5237-10	7.62 (193.7)	6.87 (174.6)	5.62 (142.9)
C5237-11	8.25 (209.5)	7.50 (190.5)	6.25 (158.7)
C5237-12	8.87 (225.4)	8.12 (206.4)	6.87 (174.6)
C5237-13	9.50 (241.3)	8.75 (222.2)	7.50 (190.5)
C5237-14	10.12 (257.2)	9.37 (238.1)	8.12 (206.4)
C5237-15	10.75 (273.0)	10.00 (254.0)	8.75 (222.2)

Basic Overcurrent Technology

Overcurrent devices may serve several purposes in electrical circuits:

- To protect components, equipment, and associated wiring from the effects of electric circuit overloads and/or short circuits.
- To isolate branch circuits from the main power supply once an overload or short circuit has occurred.

Fuses and circuit breakers are commonly selected as the preferred overcurrent device.

TYPES OF OVERCURRENT

An overcurrent device is constructed to react in a prescribed fashion to varying levels of electrical current, where at pre-determined levels, the device provides interruption of the current flow through it. Any current that exceeds the ampere rating of the fuse or circuit breaker is an overcurrent. Overcurrents are generally classified as either short circuits or overloads and are defined as follows:

- Short circuit a current that greatly exceeds the rating of the device. It is caused when a malfunction or accident creates a break in the normal path allowing electricity to flow directly to ground or another phase. This shorter current path bypasses the resistance offered by the circuit components and the load connected in the normal current path. In this situation there is little resistance to impede the current and the current will build to a level where the heat generated can cause insulation damage and/or equipment breakdown.
- Overload an overcurrent that is within the normal current path. Overloads occur when the current exceeds the value for which the equipment or associated wiring is rated. This typically occurs when too many devices are connected to the circuit or when a device connected to the circuit malfunctions. Overloads are also caused by harmless temporary surge currents; such as when motors are started. These overload currents are normal, usually brief in duration, and have no harmful effect on the circuit components. (It is important that protective devices do not react to such overloads.) Sustained overloads, however, may slowly cause overheating of the wiring and the components. Provided the overload is of sufficient magnitude and duration to activate the device, the circuit protection device shall open before the overload induces system component failures.

SELECTING OVERCURRENT PROTECTION

During normal conditions, an overcurrent protection device must carry the current without nuisance openings. However, when an overload or short circuit occurs the device interrupts the overcurrent and withstands the voltage across the device. To properly select an overcurrent device the following items must be carefully considered:

- Voltage rating represents the maximum system voltage present in the circuit in which the overcurrent device is installed. The system voltage should not exceed this value for proper operation of the device during an overcurrent event.
- Current Rating the amperage value marked on the circuit protection device. The circuit protection device is designed to handle this value under steady operating conditions and at room ambient temperatures. Since field applications often deliver loading conditions and ambient temperatures that vary from ideal nominal settings, it is recommended that circuit designers select device ratings above the nominal circuit current continuous load to prevent nuisance trips. Additionally, the continuous current flowing through the overcurrent protective device should not be more than 80% of the current rating.
- Characteristics of equipment to be protected during the operation of protected equipment, system current can significantly vary. This is particularly evident when motor or other inductive loads in the circuit cause large current surges during start-up. Circuit protection designers should be aware of these surges and/or in-rush characteristics and select the overcurrent protection devices accordingly.
- Available short circuit current during a fault or short circuit condition the fuse or circuit breaker may see a large amount of current. Large DC battery supplies and high current rated electric distribution buses often have this potential for severe short circuits. In these situations, the circuit protection device should have an interrupting rating that is equal to or greater than the short circuit current that can be delivered.
- Ambient temperature the time it takes to interrupt the current is dependent upon the ambient current temperature characteristics. Ambient temperature refers to the temperature of the air immediately surrounding the circuit protection device. The ambient temperature around the fuse or circuit breaker can be appreciably different than the outside room or larger enclosure containing the device. This can occur when the device is contained in a tight area or it is mounted in or near a heat-producing component such as a transformer or resistor. When selecting a fuse or circuit breaker at ambient temperatures significantly different from the stated nominal temperature, the circuit designer should adjust the selected overcurrent protection rating based on the published temperature re-rating curves.

OVERCURRENT PROTECTION DEVICES

Two categories of overcurrent devices are available.

Fuses

The key component of a fuse is the "element', a short piece of metallic wire or link made of a material with a

Basic Overcurrent Technology

relatively low and predictable melting point. Fuses are current-sensitive devices and the resistance is so low that they simply act as a conductor. Circuit protection is provided when the fuse element melts and interrupts an overcurrent. The key criteria used to judge the performance of a fuse is the time-versus-current characteristic curve. This curve can be used to match the fuse with the load. Fuses may be preferred when fast response to a short circuit condition is required or when high available short circuit currents occur. Fuse characteristic curves can be used to carefully size the device to a critical or special application.

Thermal Circuit Breakers

The basic components of a thermal circuit breaker are the thermal alloy element, electrical contacts, and the terminals for external connections. When an overload occurs, heat is generated as the current flows through the thermal alloy element causing it to deflect and separate the electrical contacts, interrupting current flow. An important parameter used to judge the performance of a thermal circuit breaker is the time-versus-current characteristic curve, which is similar to that of a fuse. A thermal circuit breaker is generally not a one-event type device as is a fuse. The resettable features of circuit breakers are often found attractive for use in electrical circuits where non-resetting interruption of current flow is undesirable. It is important to note that cycle life of a thermal circuit breaker is impacted both by the operational characteristic of the circuit breaker as well as the relative magnitude and duration of overcurrents or short circuits that the device experiences. There are different operational characteristics of Cooper Bussmann thermal circuit breakers, which are described below.

CIRCUIT BREAKER OPERATIONAL CHARACTERISTICS

Four different methods for reset are generally available:

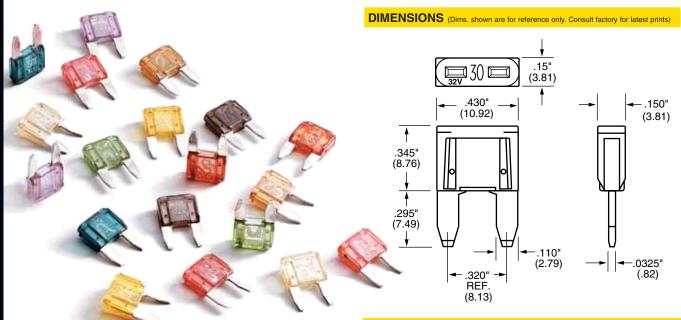
- Type I (automatic reset): the circuit breaker trips and resets in response to the overcurrent condition in a repetitive fashion. This version should be used in applications that provide for other self-limiting or non-resettable means (such as after a main fuse, main manual-reset circuit breaker, or momentary switch). These devices, while automatic in reset function, are not designed for long-term cycling conditions in applications where operator awareness of circuit fault or serviceability access is limited, leading to unsatisfactory failure events. Refer to SAE J553 or J1625 for additional details.
- Type II (modified reset): the circuit breaker contains an additional resistive component that enables the device to have only brief trip and reset activity and then afterwards maintains an open circuit condition (except for a low

- milliamp draw through the resistor). Requires minimum voltage/current to maintain open circuit see standards for details SAEJ553.
- Type III (manual reset): the circuit breaker will trip in response to an overcurrent condition after which a reset button or lever extends externally to indicate that the breaker has tripped and is in a non-conducting state. The trip indicator button or lever must be manually activated to return the device to normal operation.
- Type III (switchable): same as the manual Type III
 manual reset with the additional feature of allowing the
 user to open the circuit using an externally accessible trip
 mechanism.

CIRCUIT BREAKER APPLICATION NOTES

- Circuit Breaker Performance Cooper Bussmann thermal circuit breakers are designed to conform to relevant industry standards (refer to individual models for standard references). There are specific performance aspects that may not always make circuit breakers suitable for certain applications, especially in circuits that are incapable of providing enough current to operate the circuit breaker in a timely manner relative to the associated components and wiring. It is of utmost importance that the circuit designer investigates components that have finite overload capabilities which are below the time-current levels to initiate timely circuit breaker activation.
- Evaluation Design-in situations require that the user considers all application conditions and conducts operational testing to establish the correctness of ampere/voltage rating as well as overload protection suitability. Further review of industry standards is advised to understand all performance aspects that affect usage.
- Wiring Considerations Additional evaluation of circuit conditions is essential to achieve proper matching of wire sizes to the current load conditions anticipated under normal operating conditions, and estimated abnormal operating conditions when overloads could occur. Thermal circuit breakers and fuses introduce some level of resistance to the current path where installed. These factors should also be considered when choosing wire, both in gauge as well as in temperature rating of insulation.
- Installation Environment Thermal circuit breakers are produced in various configurations. Installation environmental conditions need to be considered and compared to the capability of the particular product of choice. Not all circuit breaker designs are suitable for harsh conditions, such as may be encountered underhood or external cavities.

MINI BLADE FUSES



ATM Mini – Fuse

Fast Acting

SPECIFICATIONS

Current Rating: 2-30A. Voltage Rating: 32VDC.

Interrupt Rating: 1,000A @ 32VDC.

Housing Material: UL-Rated 94V-0 thermoplastic. Terminal Material: Silver-plated zinc alloy. Marking: Amperage marking is OCR compliant. Compliances: UL-Listed; SAE J2077; ISO 8820-3.

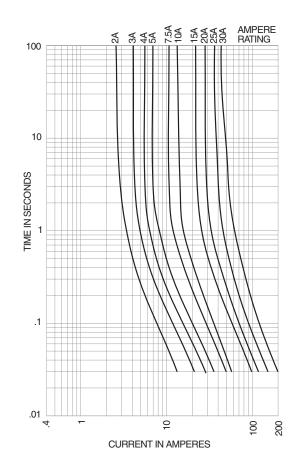
Consult factory for higher voltage fuses.

Part No.	Amp Rating	Color
BK/ATM-2	2	Gray
BK/ATM-3	3	Violet
BK/ATM-4	4	Pink
BK/ATM-5	5	Tan
BK/ATM-7.5	7.5	Brown
BK/ATM-10	10	Red
BK/ATM-15	15	Lt. Blue
BK/ATM-20	20	Yellow
BK/ATM-25	25	Natural
BK/ATM-30	30	Green

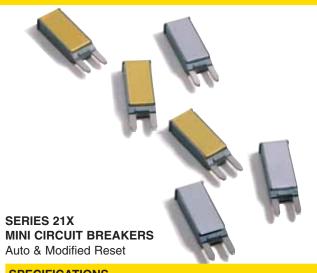
MINI FUSE PULLER - PART NUMBER 32002



See page 27 for more information.



SERIES 21X MINI CIRCUIT BREAKERS



SPECIFICATIONS

Single Pole Thermal Type Breakers

Rating: 5-30A; 14VDC.

Interrupt Rating: 150A @ 14VDC (5-10A versions); 225A @ 14VDC (15A version); 300A @ 14VDC (20A version);

450A @ 14VDC (25-30A versions).

Operating Temperature Rating: -40°F (-40°C) to

185°F (85°C).

Storage Temperature Rating: -40°F (-40°C) to

260°F (125°C).

Materials: Grey UL-Rated 94V-0 thermoplastic housing

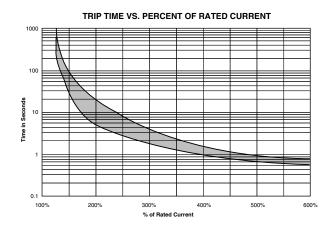
with metal cover: gold (Type I) or silver (Type II).

Marking: Standard marking includes amp/voltage ratings, part number, and date code. OCR marking is available. Termination: Compatible with 280 Type fuse blocks using

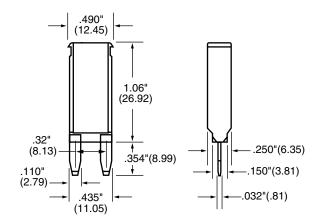
0.32in. (8.1mm) centerline spacing.

Compliances: SAE J553 Type I and Type II Circuit

Breakers.



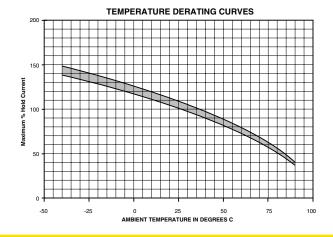
DIMENSIONS (Dims. shown are for reference only. Consult factory for latest prints)



MINI FUSE PULLER - PART NUMBER 32002



See page 27 for more information.



PART NUMBERING SYSTEM

Series

2 1

211 - Type I, 14VDC 212 - Type II, 14VDC

Rating

15 - 15 amps

20 - 20 amps 25 - 25 amps 30 - 30 amps

05-5 amps

75 - 7.5 amps10 - 10 amps

00 - Std. Marking (Consult Factory for Special Marking Options)

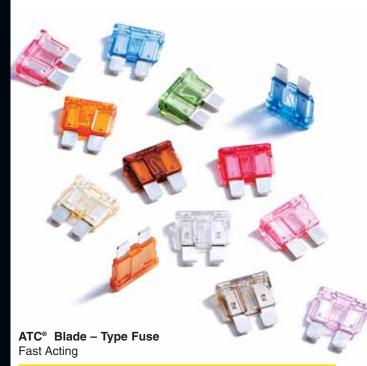
Marking

Special Options



(Consult Factory for Special Options)

21



SPECIFICATIONS

Current Rating: 1-40A. Voltage Rating: 32VDC.

Interrupt Rating: 1,000A @ 32VDC.

Housing Material: UL-Rated 94V-0 thermoplastic.

Terminal Material: Tin-plated zinc alloy.

Marking: Amperage marking is OCR compliant.

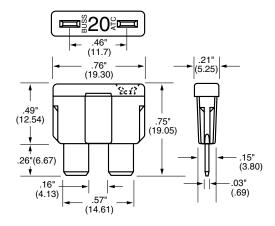
Compliances: UL-Recognized (3-40A);

SAE J1284; ISO 8820-3

Consult factory for higher voltage fuses.

Part No.	Amp Rating	Color
BK/ATC-1	1	Black
BK/ATC-2	2	Gray
BK/ATC-3	3	Violet
BK/ATC-4	4	Pink
BK/ATC-5	5	Tan
BK/ATC-7.5	7.5	Brown
BK/ATC-10	10	Red
BK/ATC-15	15	Lt. Blue
BK/ATC-20	20	Yellow
BK/ATC-25	25	Clear
BK/ATC-30	30	Green
BK/ATC-40	40	Amber

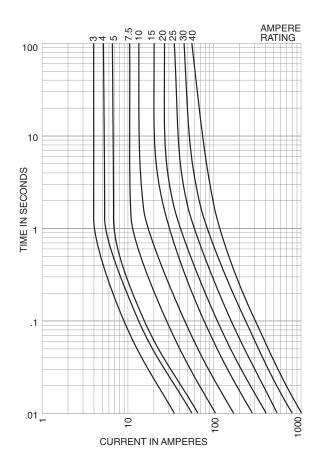
DIMENSIONS (Dims. shown are for reference only. Consult factory for latest prints)



ATC® FUSE PULLER - PART NUMBER 32003



See page 27 for more information.



SERIES 22X ATC® CIRCUIT BREAKERS



ATC® CIRCUIT BREAKERS

Auto, Modified, & Manual Reset

SPECIFICATIONS

Single Pole Thermal Type Breakers

Rating: 5-30A, 14VDC; 28VDC (Series 223 & 226).

Interrupt Rating: 150A @ 14VDC (5-10A versions); 225A @ 14VDC (15A version); 300A @ 14VDC (20A version); 450A @ 14VDC (25-30A versions).

Operating Temperature Rating: $-40^{\circ}F$ ($-40^{\circ}C$) to $185^{\circ}F$ ($85^{\circ}C$). Storage Temperature Rating: $-40^{\circ}F$ ($-40^{\circ}C$) to $260^{\circ}F$ ($125^{\circ}C$).

Materials: UL-Rated 94V-0 thermoplastic housing with gold metal cover (Type I) or silver metal cover (Type II & III).

Marking: Standard marking includes amp/volt ratings, part number, and date code. Type III reset buttons are color-coded to amperage ratings. Push-to-trip option is available on manual reset version. OCR marking is available.

10.88 REF [0.428]

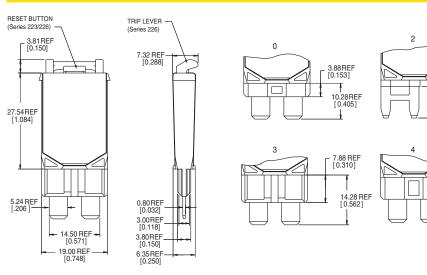
6.28 REF [0.247]

12.91REF

Termination: Compatible with 280 Type or ATC® fuse blocks.

Compliances: SAE J553.

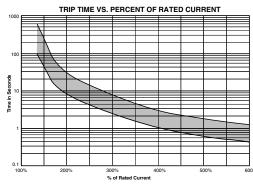
Dimensions (Dims. shown are for reference only. Consult factory for latest prints.) Terminal Options

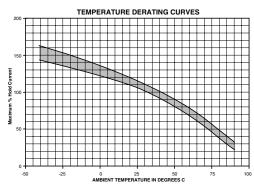


ATC[®] Circuit Breaker Puller Part Number 32003



See page 27 for more information.





PART NUMBERING SYSTEM

Series



221 - Type I, 14VDC 222 - Type II, 14VDC 223 - Type III, 28VDC 226 - Type III w/Push-to-trip option, 28VDC

Consult factory for terminal option availability.

Rating

05 – amps [LT. Brown (Tan)]* 75 – 7.5 amps [Brown]* 10 – 10 amps [Red]*

15 – 15 amps [Blue]*

20 – 20 amps [Yellow]* 25 – 25 amps [White]*

30 – 30 amps [Green]*

*Reset Button Color (223 & 226 only).

Terminal



0 - ATC® Fuse, 4mm Insertion Depth

2 - 8.1mm Centerline 280 (MINI)

3 – ATC® Fuse, Delphi Packard Autofuse Block (e.g. 12004943)

4 – ATC® Fuse, Blocks with Raised Shrouds, 6.4mm Insertion Depth

Marking



00 – Std. Marking (Consult factory for

(Consult factory for special marking options)