

Swe-Check

Circuit Protection Solutions



*Electronic SMD PCB Fuses
Miniature Fuses
Automotive Fuses
Automotive Circuit Breakers
Semiconductor Fuses
Photovoltaic Fuses
Electric Vehicle Supply Fuses
Industrial Fuses
Medium Voltage Fuses
Fuse Holders & Blocks
Fuse Switch Disconnectors
Power Distribution Blocks
Terminal Blocks*

The Fuse Bible

22nd Edition

Proudly 100% Australian owned and operated company founded in 1963. We are constantly expanding our local product inventory. We source products from local and overseas suppliers and currently stock over 8,500 product lines. New products are added on a daily basis.

Representing the industry leading brands with the latest technology. Our products are designed in accordance with international electrical standards and manufactured in quality approved facilities by reputable global brands. We don't sell inferior copy products.

From urgent spare parts to large volume production requirement, we can cater to your specific needs. We offer express delivery to your door and can source a wide range of products from our global international network. With our bulk buying power you can be sure of low prices every day.

The most experienced local team in the industry who listen to your specific needs and provide solutions. Customer service is our highest priority. We are also backed by the expertise of our global partners, so you can count on expert advice and ongoing support.

Concern for the environment has always been important to our business. Our business partners share our commitment to reducing waste, using environmental materials in production and adhering to our human rights code of conduct. Throughout this catalogue you will find products adhering to the RoHS standard that indicates the product is environmentally friendly.

Proudly representing the following internationally trusted brands;

 Bussmann series		
		
		
		
		

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ELECTRONIC

AUTOMOTIVE FUSES & CIRCUIT BREAKERS

Blade Fuses, Fusible Links and Battery Terminal Fuses

Bolt Down Fuses (Midi, Mega and Lift Truck)

Automotive Circuit Breakers, MCB's, RCD / RCCB & RCBO

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AUTOMOTIVE

SEMICONDUCTOR & PHOTOVOLTAIC FUSES

Cartridge Fuses (Type FF, aR, gR and gPV)

Bolted Tag & Threaded Fuses (USA, Japanese, BS88, German)

Bottle, Traction, Extended VDC, Battery & Photovoltaic Fuses

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SEMICONDUCTOR

INDUSTRIAL FUSES

Cartridge, Consumer and Service Links, Neozed, Bottle Fuses

NH Blade, USA (Class K5 & H, RK1, RK5, J & T, L) Fuses

British Standard, Industrial Marine Fuses, Joint Service Fuses

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INDUSTRIAL

MEDIUM VOLTAGE FUSES

Voltage Transformer Fuses (Oil and Air)

British Standard Ferrule Fuses (Oil and Air), Motor Protection Fuses

DIN Motor Protection & Back Up Fuses and Liquid Transformer Fuses

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MEDIUM VOLTAGE

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INFORMATION

FUSE STYLE IDENTIFICATION CHART

The Product Visual Identification Chart assists you to identify the style or features of the fuse that you are looking for. Each box is numbered in the top left corner so that it can be used as a reference when talking with our sales team.



 **Note:** Pictures are not to scale.

Electronic Fuses & Assortment Fuse Kits



Surface Mount Fuses



Cartridge Fuse



Fuse Assortment Kit

PTC Resettable Fuses

Surface Mount (SMD)

PCB Mount

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Fuses

Surface Mount (SMD)

PCB Mount Picofuses (Axial Lead)

PCB Mount Microfuses (Radial Lead)

Hazardous Area Fuses

Barrier Network Fuses

Thermal Fuses

5 x 20mm (M205 Glass Casing)

5 x 20mm (M205C Ceramic Casing)

6.3 x 32mm (3AG Glass Casing)

6.3 x 32mm (3AB Ceramic Casing)

5 x 20mm (M205C High Power)

Microwave Fuse 5kV & Inline Holder

6.35 x 15.9mm (1AG - AGA)

6.35 x 22.2mm (7AG - AGW)

6.35 x 25.4mm (8AG - AGX)

6.35 x 25.4mm (8AB - TDC)

5 x 15mm (2AG - USA Standard)

5 x 25mm (M525 Ceramic & Glass)

5 x 30mm (M530 Glass Casing)

Alarm Indicating Fuses

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Fuse Kit Assortments

Cartridge M205 Fast Acting

Cartridge M205 Slow Acting

Cartridge 3AG Fast Acting

Cartridge 3AG Slow Acting

Automotive Fuse Caddies;

Blade Fuses, Fusible Links &

Bolt Down Tag Fuses

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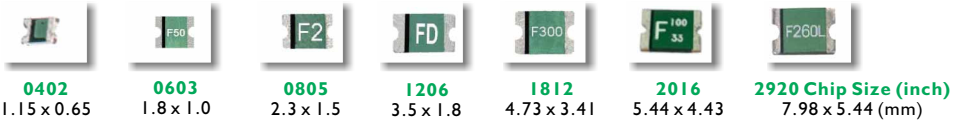
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PTC RESETTABLE FUSES - PRODUCT SELECTION GUIDE

How Does The Resettable Fuse Work?

Resettable fuses are designed and made of patented novel polymeric PTC material in thin chip form. With electrodes and leads attached on both sides, it is placed in series to protect a circuit. At "normal operating condition" the device remains at an extremely low resistance (milli-ohms) and allows the electrical current to flow through it without any restriction. When over current conditions occur, the polymeric PTC material heats up and its resistance increases sharply. Such a sharp resistance increase (to an insulated status) cuts off the current in the circuit, and consequently protects the element and device in the circuit. Upon fault current being removed, the resettable fuse cools and its resistance drops to the original extremely low value. The resettable fuse is "reset" and allows the current through the circuit again.

PTC RESETTABLE FUSES - SURFACE MOUNT



Part Number	Chip Size	Hold Current	Trip Current	Voltage Range	Max Current
FSMD...-0603R	0603	10mA to 200mA	30mA to 450mA	60VDC to 9VDC	40A
FSMD...-0805	0805	100mA to 1A	300mA to 1.95A	24VDC to 6VDC	100A
FSMD...-1206	1206	50mA to 2A	150mA to 3.5A	60VDC to 6VDC	100A
FSMD...-1812	1812	100mA to 3A	300mA to 5A	60VDC to 6VDC	100A
FSMD...-2016	2016	300mA to 2A	600mA to 4.2A	60VDC to 6VDC	100A
FSMD...-2920	2920	300mA to 7A	600mA to 14A	60VDC to 6VDC	100A

Low Rho SMD resettable fuse features over regular SMD resettable fuses:

- Ultra Low Resistance
- Higher Hold Current
- Faster Time to Trip
- Less Voltage Drop
- Lower Power Consumption

Part Number	Chip Size	Hold Current	Trip Current	Voltage Range	Max Current
FSMD...-0402RZ	0402	100mA to 500mA	300mA to 1A	6VDC	100A
FSMD...-0603RZ	0603	250mA to 1A	550mA to 1.8A	9VDC to 6VDC	100A
FSMD...-0805RZ	0805	750mA to 3.5A	1.3A to 7A	6VDC	100A
FSMD...-1206RZ	1206	500mA to 7A	1.5A to 14A	6VDC	100A

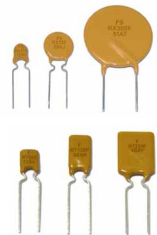
Packaging Notes: Products supplied on tape / reel.

Approvals:

PTC RESETTABLE FUSES - PCB MOUNT RADIAL LEAD



Part Number	Hold Current	Trip Current	Voltage Range	Max Current
FRX...-60F	50mA to 3.75A	100mA to 7.5A	60VDC	40A
FRX...-90F	100mA to 3.75A	200mA to 7.5A	90VDC	40A
FRU...-30F	900mA to 9A	1.8A to 18A	30VDC	100A
FUSB...	750mA to 2.5A	1.3A to 5A	30VDC to 16VDC	40A
FRG...	2.5A to 14A	4.7A to 23.8A	16VDC	100A
FRH...V	80mA to 400mA	160mA to 1A	60VDC to 250VDC	3A to 10A
FRT...	500mA to 2.5A	1.1A to 4A	36VDC	40A
FRV...	50mA to 2A	120mA to 4A	240VAC/VDC	1A to 20A
FRVL...	100mA to 3.75A	200mA to 7.5A	120VAC/VDC	2A to 20A
FHT...	500mA to 15A	900mA to 28A	30VDC to 16VDC	40A to 100A
FHE...	500mA to 10A	1A to 20A	32VDC	100A



Packaging Notes: Bulk pack.

Approvals:

PTC RESETTABLE FUSES - STRAP MOUNT



Applications include rechargeable battery packs, lithium cell and battery packs.

NEW

Product Features:

- Low profile
- Solid state

Series	Hold Current	Trip Current	Voltage Range	Max Current
FSR...F	1A to 4.2A	2.7A to 7.6A	15-30VDC	100A
FLR...F	1.9 to 9A	3.9 to 16.7A	15-20VDC	100A

Packaging Notes: Bulk Pack

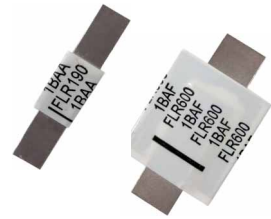
FSR120F~FSR175F : 1,000pcs

FSR200F~FSR420F : 500pcs

FLR190F~FLR380F : 1,000pcs

FLR450F~FLR900F : 500pcs

Approvals: TÜV



ELECTRONIC

SURFACE MOUNT FUSES - PRODUCT SELECTION GUIDE



0402 Size	0603 Size	1206 Size	2410 Size	2410 + Clips	3912 Size	4818 Size (inch)
1.0 x 0.5	1.6 x 0.8	3.2 x 1.58	6.1 x 2.54	8.38 x 3.25	9.8 x 3.1	12.1 x 4.45 (mm)

Series	Part No./	Chip Size	Speed	Ratings	Voltage Range	I.R.
0ABA	0ABA..	0402	Fast	200mA to 4A	32VDC	35A
C2F..	0686F..	0603	Fast	500mA to 8A	32VAC / 63VDC	35A to 50A
C2Q..	0686-..	0603	Fast	250mA to 5A	32VAC / 32-63VDC	35A to 50A
0685P..	0685P..	1206	Fast	2A to 50A	50VAC / 32-63VDC	50A to 250A
CIQ..*	0685-..01	1206	Fast	250mA to 7A	63-125VAC / 63VDC	50A to 100A
CIF..	0685F..	1206	Fast	250mA to 8A	125VAC / 63VDC	35A to 100A
CIH..	0685H..	1206	Fast	10A to 30A	125VAC / 32VDC	150A to 300A
CIS..	0685-..S1	1206	Slow	750mA to 5A	63VAC / 63VDC	50A
CIT..	0685T..	1206	Slow	750mA to 5A	63VAC / 63VDC	50A
0679H..	0679H..	2410	Fast	250mA to 15A	350VAC / 60-72VDC	50A to 150A
0679L..	0679L..	2410	Fast	250mA to 20A	125VAC / 125VDC	50A to 300A
0680L..	0680L..	2410	Slow	375mA to 12A	50-125VAC / 75-125VDC	50A to 500A
0ACA..	0ACA..	2410	Medium	20A to 40A	63-72VDC	500A
SSQ..*	0679-..01	2410	Fast	100mA to 15A	125VAC / 86-125VDC	50A to 10kA
SSQC..	0679-..12	2410 + clips	Fast	250mA to 8A	125VAC / 86-125VDC	50A to 10kA
SST..	0680-..1	2410	Slow	375mA to 7A	125VAC / 125VDC	50A
SSTC..	0680-..12	2410 + clips	Slow	375mA to 7A	125VAC / 125VDC	50A
0678D..	0678D..	3912	Fast	500mA to 5A	350VAC / 125-250VDC	100A to 2000A
0678H..	0678H..	3912	Medium	500mA to 40A	250VAC / 100-125VDC	100A to 2000A
0678L..	0678L..	3912	Medium	10A to 30A	125-250VAC / 65-72VDC	100A to 300A
0684L..	0684L..	4818	Medium	40A	350VAC	250A to 1000A
UMTS..	0683-..01	4818	Slow	250mA to 6.3A	250-350VAC	100A to 150A

Notes: Please contact sales for details on RohS compliance, agency approvals, packaging options, product specifications, price and availability. Some ratings may vary from specifications provided. Pictures are not to scale.

* SSQ is not recommended for new designs. Alternative is 0679L.

** SMM is not recommended for new designs. Alternative is 0678L.

Packaging Notes: Products supplied on tape / reel.

Approvals:

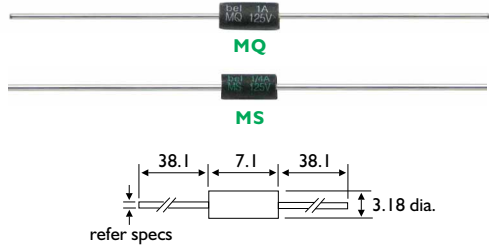


Email: sales@swe-check.com.au
Phone: (+61) 03 9521 6133

PCB MOUNT AXIAL LEAD FUSES FAST & SLOW ACTING 125V



Fast Acting (F) Part Number	Time Delay (T) Part Number	Ampere Rating
MQ.100	-	100mA
MQ.125	-	125mA
MQ.150	-	150mA
MQ.200	-	200mA
MQ.250	MS.250	250mA
MQ.300	MS.300	300mA
MQ.375	MS.375	375mA
MQ.500	MS.500	500mA
MQ.750	MS.750	750mA
MQ001	MS001	1A
-	MS1.25	1.25A
MQ01.5	MS01.5	1.5A
MQ002	MS002	2A
MQ02.5	MS02.5	2.5A
MQ003	MS003	3A
MQ03.5	MS03.5	3.5A
MQ004	MS004	4A
MQ005	MS005	5A
MQ007	MS007	7A
MQ010	-	10A
MQ012	-	12A
MQ015	-	15A



I.R.: 50A at 125VAC, 300A at 125VDC

Voltage: 125VAC/VDC

Characteristic: MQ = Fast Acting

Characteristic: MS = Slow Acting

MQ Wire Diameter: 0.64mm (7A or less),
0.81mm (above 7A)

MS Wire Diameter: 0.81mm (All ratings)

Sample P/N: MQ002 for a 2A fuse.

Notes: End of life.

Approvals:

PCB MOUNT AXIAL LEAD FUSES FAST ACTING 125V



Littelfuse 0251 Series

I.R.: 300A at rated VDC, 50A at rated VAC

Voltage: 62mA to 10A Rated at 125VAC/VDC

12A to 15A Rated at 32VAC/VDC

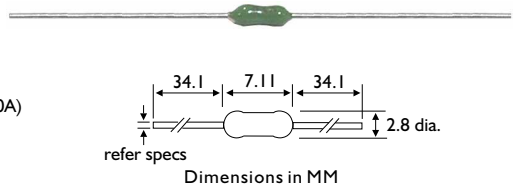
Ratings (20) 62mA - 15A

Wire Diameter: 0.64mm (10A or less), 0.81mm (above 10A)

Sample P/N: 0251004 for a 4A fuse.

Pack Size: Mixed packs, please contact sales

Approvals*:



PCB MOUNT AXIAL LEAD FUSES VERY FAST ACTING 250V



Littelfuse 0263 Series

I.R.: 50A at 250VAC, (PSE approval: 100A at 125VAC)

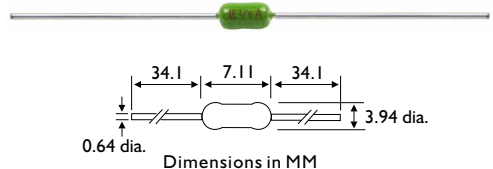
Voltage: 250VAC

Ratings (14): 62mA to 5A

Sample P/N: 0263003 for a 3A fuse.

Pack Size: Mixed packs, please contact sales.

Approvals*: *excludes some ratings.



PCB MOUNT AXIAL LEAD FUSES SLOW ACTING 125V



Littelfuse 0473 Series

I.R.: 50A at 125VAC/VDC

Voltage: 125VAC/VDC

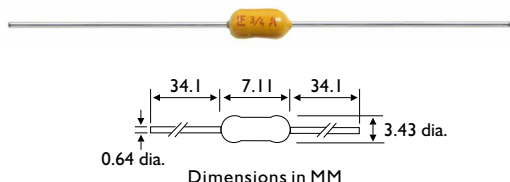
Ratings (13): 375mA to 7A

Sample P/N: 0473005 for a 5A fuse.

Pack Size: Mixed packs, please contact sales

Notes: Meti (PSE) approval from 1A to 5A only.

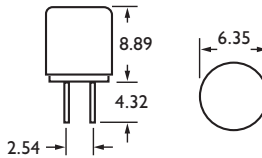
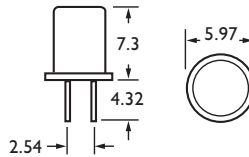
Approvals:



MICRO FUSE RADIAL LEAD VERY FAST ACTING 125V



Metal Cap Part Number	Plastic Cap Part Number	Ampere Rating
0272.031	-	31mA
0272.050	0273.050	50mA
0272.062	0273.062	62mA
-	-	100mA
-	-	125mA
0272.200	0273.200	200mA
0272.250	-	250mA
-	-	300mA
-	-	400mA
-	-	500mA
0272.600	0273.600	600mA
0272.700	0273.700	700mA
0272.750	-	750mA
0272.800	-	800mA
-	-	1A
-	-	1.5A
-	-	2A
-	-	3A
-	-	4A
-	0273005	5A



Dimensions in MM

I.R.: 10,000A at 125VAC/VDC

Voltage: 125VAC/VDC

Pack Size: Please contact sales

Holders: PCB and Panel Mount (below)

Approvals: QPL

ELECTRONIC

MICRO FUSE HOLDERS PANEL MOUNT 125V



Part Number	Mounting	Terminals
02810001H	Panel Mount	Silver Plated Terminals

Rating: 5A

Voltage: 125VAC

Suit Fuses: 0272 and 0273 Series

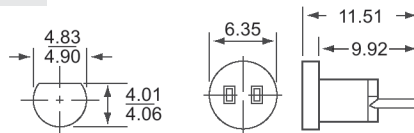
Panel Thickness: 2.3mm (max)

Body: Black thermoset

Pack Size (bag): 1, 10, 100, 500

Notes: "Push-on" retaining nut included.

Approvals: RoHS

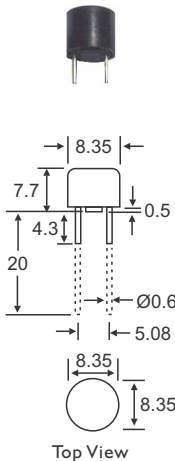


**Recommended
Mounting Pattern**

Dimensions in MM



Fast Acting Part Number	Slow Acting Part Number	Ampere Rating
TRF.050	--	50mA
TRF.063	TRT.063	63mA
TRF.080	TRT.080	80mA
TRF.100	TRT.100	100mA
TRF.125	TRT.125	125mA
TRF.160	TRT.160	160mA
TRF.200	TRT.200	200mA
TRF.250	TRT.250	250mA
TRF.315	TRT.315	315mA
TRF.400	TRT.400	400mA
TRF.500	TRT.500	500mA
TRF.630	TRT.630	630mA
TRF.800	TRT.800	800mA
TRF001	TRT001	1A
TRFI.25	TRTI.25	1.25A
TRF01.6	TRT01.6	1.6A
TRF002	TRT002	2A
TRF02.5	TRT02.5	2.5A
TRF3.15	TRT3.15	3.15A
TRF004	TRT004	4A
TRF005	TRT005	5A
TRF06.3	TRT06.3	6.3A



I.R.: Fast Acting (TRF): 50A at 250VAC (UR, CSA)
 Slow Acting (TRT): 35A at 250VAC (VDE)
Voltage: 250VAC / Contact sales for VDC rating.
Pack Size: 200pc bulk box, 1000pcs taped ammo pack.
Notes: For taped ammo pack, add suffix 'L' to part number.
Approvals:

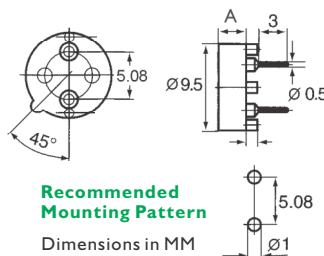
Microfuse PCB Mount Holders



Part Number	Dimension "A"
560000013	3.0 mm
560000010	4.3 mm



Rating: 6.3A **Voltage:** 250V
Suit Fuses: TRF, TRT, TET
Body: Thermoplastic, Polyester PCT
Terminals: Copper alloy tinned for solder
Pack Size (bag): 10, 100, 200, 1000
Approvals:

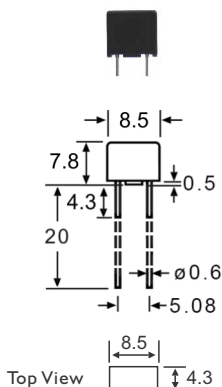


**Recommended
Mounting Pattern**

Dimensions in MM

MICRO FUSE COMPACT PCB MOUNT 250V

Slow Acting Part Number	Ampere Rating
TET.080	80mA
TET.100	100mA
TET.160	160mA
TET.200	200mA
TET.250	250mA
TET.315	315mA
TET.400	400mA
TET.500	500mA
TET.630	630mA
TET.800	800mA
TET001	1A
TETI.25	1.25A
TET01.6	1.6A
TET002	2A
TET02.5	2.5A
TET3.15	3.15A
TET004	4A
TET005	5A
TET06.3	6.3A



I.R. & Voltage: 35A at 250VAC (80mA to 6.3A) SEMCO
 50A at 250VAC (80mA to 6.3A) CSA
 100A at 250VAC (80mA to 6.3A) UR USA
Pack Size: 200pc bulk box, 1000pcs taped ammo pack.
Notes: For taped ammo pack, add suffix 'L' to part number.
Approvals:

Safe-T-Plus fuses are designed for equipment meeting “Intrinsically Safe” certification for applications in gas plants, petrochemical and processing industries where there is a danger of gas explosion from faulty circuits. Hermetically sealed for hazardous environmental conditions. The encapsulation material is Polyamide 6 at a minimum depth of 1mm (3mm typically) and has a CTI (Comparative Tracking Index) of greater than 175. The leads are separated by a minimum clearance and creepage distance of 9 mm and hence are suitable for use in intrinsically safe apparatus for voltage not exceeding 125V rms (190V peak).

Part Number	Ampere Rating
0259.062	62mA
0259.250	250mA
0259.500	500mA
0259.750	750mA
0259001	1A

I.R.: 50A at 125VAC, 300A at 125VDC (62mA to 1A)

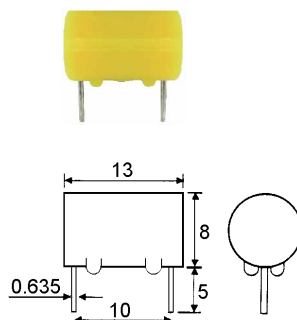
Voltage: 125VAC / 125VDC

Pack Size (box): 1, 10, 500

Application Standards: EN 500014, ENS0020

Approvals: Baseefa 02ATEX0071U, IECEx BAS 10.0098U

E10480, (UL 913) E358130 RoHS



Dimensions in MM

HAZARDOUS AREA FUSES 250VAC / 250VDC

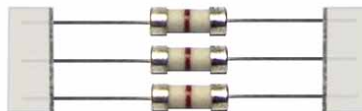
In chemical plants or oil refineries handling flammable liquids and gases, the risks of explosion are apparent. There are many thousands of sensors in a typical plant connected to the main control room. If a fault occurs on the monitoring equipment within the control room, sufficient energy could be transmitted back to a sensor, causing sparks or overheating, which could set off an explosion. Therefore stringent requirements are specified by safety authorities to limit the energy that can be passed down these sensor connections. One option is placing a barrier network in every sensor line to prevent the transmission of sufficient electrical energy to cause a spark at the sensor. In its simplest form, a Barrier Network consists of a fuse and resistor in series with the line and Zener diode connected in parallel with the sensor. Momentary transients are absorbed by the Zener diode, while for major sustained faults the fuse blows.

PCB Mount	Surface Mount	Ampere Rating
Part Number	Part Number	Rating
0242.080HAT I	-	80mA
0242.160HAT I	-	160mA
-	0242.200UR	200mA
0242.250HAT I	0242.250UR	250mA

SMD Mount



PCB Mount



I.R.: 4kA at 250VAC / 250VDC

Voltage: 250VAC / 250VDC

Pack Size: Stock lines 5
Indent 100, 500

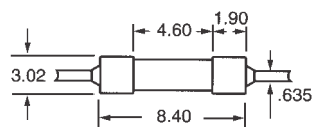
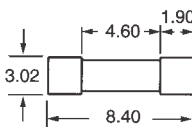
Factory Pack Size (box) 'HAT I': 100

Factory Pack Size (box) 'UAT I': 500

Factory Pack Size (ammo) 'UR': 500

Barrier Network Standard: EN50020

Approvals: RoHS



Dimensions in MM

THERMAL FUSES AXIAL LEAD FTF-S SERIES



Suits applications including but not limited to transformers, exhaust fans, electric fans, small-power motors, chargers, electric ballasts, electric blankets, capacitors, and other heating devices.

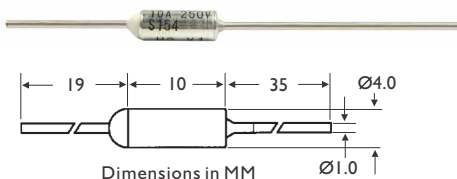
Part Number	Type No.	Opening Temperature	Functioning Temperature Tf. °C	Holding Temperature Th. °C	Maximum Temperature Tm. °C	Ampere Rating at 250VAC	Colour Code
10FTF071	S071	70 +3, -1	75	50	105	10A	Yellow
10FTF083	S083	82 +2, -2	87	52	117	10A	Brown
10FTF099	S099	99 +2, -2	103	68	133	10A	Dk Blue
10FTF112	S112	109 +4, -0	116	81	146	10A	Orange
10FTF127	S127	126 +2, -2	131	96	263	10A	Blue
10FTF132	S132	132 +2, -2	136	101	166	10A	Grey
10FTF143	S143	142 +2, -2	147	112	263	10A	Purple
10FTF154	S154	154 +0, -5	158	123	263	10A	Black
10FTF169	S169	169 +0, -4	172	137	263	10A	Pink
10FTF181	S181	182 +1, -3	185	150	263	10A	Lt Green
10FTF215	S215	214 +2, -2	219	174	249	10A	Dk Green
10FTF229	S229	229 +1, -3	233	188	263	10A	Dk Blue

Voltage: 250VAC

Ampereage: 10A

Pack Size: Contact sales.

Approvals: (not all ratings)



THERMAL FUSES AXIAL LEAD 12 SERIES



Part Number	Type No.	Opening Temperature	Functioning Temperature Tf. °C	Holding Temperature Th. °C	Maximum Temperature Tm. °C	Ampere Rating at 250VAC
12G-65C	12G	62 ±3	65	49	200	1.5A
120-76C	120	73.5 ±2.5	76	50	200	1.5A
121-102C	121	98 ±2	102	76	200	2A
12E-108C	12E	104 ±3	108	88	200	2A
122-115C	122	112 ±3	115	89	200	2A
12X-133C	12X	129 ±3	133	116	200	2A
128-139C	128	135 ±3	139	113	200	2A
12M-139C	12M	135 ±3	139	122	200	1.5A
12J-145C	12J	141 ±3	145	125	200	2A
12S-150C	12S	145 ±2	150	123	200	2A

Body: Ceramic / Epoxy

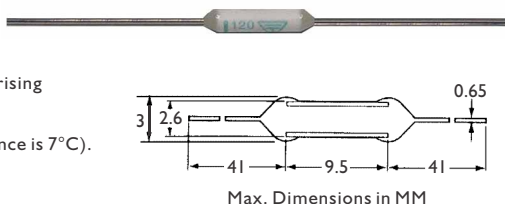
Pack Size: Contact sales.

Notes:

- Opening temperatures are measured in silicon oil rising 1°C/min. Detecting current is 100mA or less.
- The functioning temperature tolerance is +0, -10°C (excluding PSE approval where tolerance is 7°C).

Approvals: Optional

(Some ratings have additional approvals)



Max. Dimensions in MM



Please take caution when installing. We recommend that you request a copy of the installation instructions from our sales staff when ordering this product.

Suits applications including but not limited to transformers, exhaust fans, electric fans, small-power motors, chargers, electric ballasts, electric blankets, capacitors, and other heating devices.

Part Number	Type No.	Opening Temp.	Functioning Temperature Tf, °C	Holding Temperature Th, °C	Maximum Temperature Tm, °C	Ampere Rating at 250VAC	Ampere Rating at 125VAC
SJ-145C	SJ	141 ± 3	145	123	200	0.8A	N/A
S5-150C	S5	145 ± 3	150	123	200	1A	1.5A

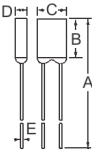


Ordering:
Leads: Short lead is standard stock line.
 To order long lead, add suffix 'L' eg. S2-115CL
Approvals: (varies per rating - please contact sales);






 Excluding S5 series

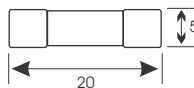


Max. Dimensions in MM					
Lead	A	B	C	D	E
Short	58.0	4.5	5.7	2.5	0.55
Long	73.0	4.5	5.7	2.5	0.55

Fast Acting (F)	Time Delay (T)	Ampere
Part Number	Part Number	Rating
M205.032R	M205DA.032R	32mA
M205.040R	M205DA.040R	40mA
M205.050R	M205DA.050R	50mA
M205.063R	M205DA.063R	63mA
M205.080R	M205DA.080R	80mA
M205.100R	M205DA.100R	100mA
M205.125R	M205DA.125R	125mA
M205.160R	M205DA.160R	160mA
M205.200R	M205DA.200R	200mA
M205.250R	M205DA.250R	250mA
M205.315R	M205DA.315R	315mA
M205.400R	M205DA.400R	400mA
M205.500R	M205DA.500R	500mA
M205.630R	M205DA.630R	630mA
M205.800R	M205DA.800R	800mA
M205001R	M205DA001R	1A
M2051.25R	M205DA1.25R	1.25A
M20501.6R	M205DA01.6R	1.6A
M205002R	M205DA002R	2A
M20502.5R	M205DA02.5R	2.5A
M205003R	M205DA003R	3A
M2053.15R	M205DA3.15R	3.15A
M205004R	M205DA004R	4A
M205005R	M205DA005R	5A
M20506.3R	M205DA06.3R	6.3A
M205008R	M205DA008R	8A
M205010R	M205DA010R	10A
-	M205DA12.5R	12.5A†
M205015R	M205DA015R	15A†



Glass Body



Dimensions in MM



Axial leaded accessories and custom made pigtail fuse versions also available. See page I 49 for further information.



I.R.: 35A or 10x rated current which ever is greater.

Voltage: 250VAC

Pack Size (bag): 5, 10, 100

Holders: Clips (p I 12)

Blocks (p I 15, I 45, I 46)

PCB Mount Holders (p I 17)

Panel Mount Holders (p I 19)

Inline (contact sales)

Notes: *The range of M205 products available today is very extensive. We now offer the full range of products from leading brands including Bel Fuse, Bussmann and Littelfuse. All makes offer alternative products in accordance with either European, North American or Asian safety agency approvals. Contact sales with your specific needs and we can offer you the best product to suit your requirements.

† = Non standard rating. Add "R" to suffix of part number to receive RoHS version.

***Approvals Available:**

RELATED PRODUCTS:



Assortment Fuse Kits
(see p24)



PCB Mount Fuse Clips
(see p I 12)



PCB Mount Blocks & Holders
(see p I 15 & I 17)



Panel Mount Fuse Holders
(see p I 19)



Fused Terminal Blocks
(see p I 46)

Fast Acting (F) Part Number	Time Delay (T) Part Number	Ampere Rating
M205C.050R	—	50mA
M205C.063R	—	63mA
M205C.080R	—	80mA
M205C.100R	—	100mA
M205C.125R	—	125mA
M205C.160R	—	160mA
M205C.200R	M205CDA.200R	200mA
M205C.250R	M205CDA.250R	250mA
M205C.315R	M205CDA.315R	315mA
M205C.400R	M205CDA.400R	400mA
M205C.500R	M205CDA.500R	500mA
M205C.630R	M205CDA.630R	630mA
M205C.800R	M205CDA.800R	800mA
M205C001R	M205CDA001R	1A
M205C1.25R	M205CDA1.25R	1.25A
M205C01.6R	M205CDA01.6R	1.6A
M205C002R	M205CDA002R	2A
M205C02.5R	M205CDA02.5R	2.5A
M205C3.15R	M205CDA3.15R	3.15A
M205C004R	M205CDA004R	4A
M205C005R	M205CDA005R	5A
M205C06.3R	M205CDA06.3R	6.3A
M205C008R	M205CDA008R	8A
M205C010R	M205CDA010R	10A



Ceramic Body



Dimensions in MM

I.R.: 1500A
Voltage: 250VAC
Pack Size (bag): 5, 10, 100
Holders: Clips (p112)
 Blocks (p115, 145, 146)
 PCB Mount Holders (p117)
 Panel Mount Holders (p119)
 Inline (contact sales)



Axial leaded accessories and custom made pigtail fuse versions also available. See page 149 for further information.



Notes: *The range of M205 products available today is very extensive. We now offer the full range of products from leading brands including Bel Fuse, Bussmann and Littelfuse. All makes offer alternative products in accordance with either European, North American or Asian safety agency approvals. Contact sales with your specific needs and we can offer you the best product to suit your requirements.

† = Non standard rating. Add "R" to suffix of part number to receive RoHS version.

***Approvals Available:** RoHS

RELATED PRODUCTS:



**PCB Mount
Fuse Clips**
(see p112)



**PCB Mount
Fuse Blocks**
(see p115)



**PCB Mount
Fuse Holders**
(see p117)



**Panel Mount
Fuse Holders**
(see p119)

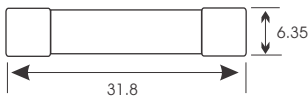


**Fused Terminal
Blocks**
(see p146)

Fast Acting (F)	Time Delay (T)	Ampere
Part Number	Part Number	Rating
3AGFB.010	3AGDA.010	10mA *
3AGFB.031	3AGDA.031	31mA *
3AGFB.062R	3AGDA.063R	62mA
3AGFB.100R	3AGDA.100R	100mA
3AGFB.125R	3AGDA.125R	125mA
3AGFB.160R	3AGDA.160R	160mA
3AGFB.187R	3AGDA.187R	187mA
3AGFB.200R	3AGDA.200R	200mA
3AGFB.250R	3AGDA.250R	250mA
3AGFB.300R	3AGDA.300R	300mA
3AGFB.375R	3AGDA.375R	375mA
3AGFB.500R	3AGDA.500R	500mA
3AGFB.750R	3AGDA.750R	750mA
3AGFB.800R	3AGDA.800R	800mA *
3AGFB001R	3AGDA001R	1A
3AGFB1.25R	3AGDA1.25R	1.25A
3AGFB01.5R	3AGDA01.5R	1.5A
3AGFB01.6R	3AGDA01.6R	1.6A
3AGFB002R	3AGDA002R	2A
3AGFB02.5R	3AGDA02.5R	2.5A
3AGFB003R	3AGDA003R	3A
3AGFB004R	3AGDA004R	4A
3AGFB005R	3AGDA005R	5A
3AGFB006R	3AGDA006R	6A
3AGFB007R	3AGDA007R	7A
3AGFB008R	3AGDA008R	8A
-	3AGDA009R	9A
3AGFB010R	3AGDA010R	10A
3AGFB012R	3AGDA012R	12A
3AGFB015R	3AGDA015R	15A
3AGFB020R	3AGDA020R	20A
3AGFB025R	3AGDA025R	25A
3AGFB030R	3AGDA030R	30A



Glass Body



Dimensions in MM



Axial leaded accessories and custom made pigtail fuse versions also available. See page 149 for further information.



I.R.: Contact sales for further information.

Voltage (Fast Acting): 250VAC (10mA to 10A), 32VAC (12A to 40A)

Voltage (Time Delay): 250VAC (10mA to 8A), 32VAC (10A to 30A)

Pack Size (bag): 10, 100, 1000

Holders: Clips (p112-113), Blocks (p118, 145, 146), PCB Mount Holders (p117), Panel Mount Holders (p118-120), Inline (p121-122)

Imperial Dimensions: 1 1/4" x 1/4"

Notes: The range of 3AG products available today is very extensive. We now offer the full range of products from leading brands including Bel Fuse, Bussmann and Littelfuse. All manufacturers offer products in accordance with either European, North American or Asian safety agency approvals. *Non-standard rating, please contact sales. Add "R" to suffix of part number to receive RoHS version.

Other 3AG versions available:

- Non approved versions with either internal or externally soldered end caps (limited ratings are available).
- Automotive 3AG 32V fuses are also available. Product code is AGCxxx (contact sales for further details).
- Contact sales with your specific needs and we can offer you the best product to suit your requirements.

Approvals Available:

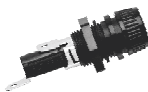
RELATED PRODUCTS:



Fuse Assortment Kits
(see p.24)



PCB Mt. Fuse Clips
(see p.112-113)



PCB & Panel Mt. Fuse Holders
(see p.117-120)



Inline Fuse Holders
(see p.121-122)

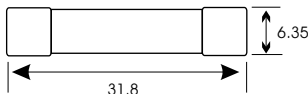


Fused Terminal Blocks
(see p.146)

Fast Acting (F) Part Number	Time Delay (T) Part Number	Ampere Rating
3AB.100	3ABDA.100	100mA
3AB.125	3ABDA.125	125mA
-	3ABDA.200	200mA
3AB.250	3ABDA.250	250mA
-	3ABDA.300	300mA
3AB.375	3ABDA.375	375mA
3AB.500	3ABDA.500	500mA
-	3ABDA.600	600mA
-	3ABDA.700	700mA
3AB.750	3ABDA.750	750mA
3AB001	3ABDA001	1A
-	3ABDA1.25	1.25A
3AB01.5	3ABDA01.5	1.5A
-	3ABDA01.6	1.6A
3AB002	3ABDA002	2A
3AB02.5	3ABDA02.5	2.5A
3AB003	3ABDA003	3A
3AB004	3ABDA004	4A
3AB005	3ABDA005	5A
3AB006	3ABDA006	6A
3AB007	3ABDA007	7A
3AB008	3ABDA008	8A
3AB010	3ABDA010	10A
3AB012	3ABDA012	12A
3AB015	3ABDA015	15A
3AB020	3ABDA020	20A
3AB025	3ABDA025	25A
3AB030	3ABDA030	30A



Ceramic Body



Dimensions in MM



Axial leaded accessories and custom made pigtail fuse versions also available. See page 149 for further information.



I.R.: Contact sales for further information.

Voltage (Fast Acting): 250VAC (100mA to 30A)

Voltage (Time Delay): 250VAC (100mA to 30A)

Pack Size (bag): 10, 100, 1000

Holders: Clips (p112-113), Blocks (p118, 145, 146), PCB Mount Holders (p117), Panel Mount Holders (p118-120), Inline Holders (p121-122)

Imperial Dimensions: 1 1/4" x 1/4"

Notes: For DC Voltage rating contact sales. Add "R" to suffix of part number to receive RoHS version. The range of 3AB products available today is very extensive. We now offer the full range of products from leading brands including Bel Fuse, Bussmann and Littelfuse. All manufacturers offer alternative products in accordance with either European, North American or Asian safety agency approvals. Contact sales with your specific needs and we can offer you the best product to suit your requirements.

Approvals Available:

RELATED PRODUCTS:



PCB Mount Fuse Clips
(see p112-113)



Screw Mount Fuse Blocks
(see p118)



PCB & Panel Mount Fuse Holders
(see p117-120)



Inline Fuse Holders
(see p121-122)

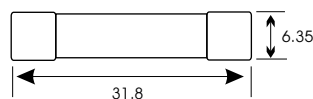


Fused Terminal Blocks
(see p146)

3AB 500V CERAMIC FUSES



Fast Acting (F) Part Number	Time Delay (T) Part Number	Ampere Rating
-	3ABDA.100/500V	100mA
-	3ABDA.125/500V	125mA
3AB.160/500V	3ABDA.160/500V	160mA
3AB.200/500V	3ABDA.200/500V	200mA
3AB.250/500V	3ABDA.250/500V	250mA
3AB.315/500V	3ABDA.315/500V	315mA
3AB.400/500V	3ABDA.400/500V	400mA
3AB.500/500V	3ABDA.500/500V	500mA
3AB.630/500V	3ABDA.630/500V	630mA
3AB.800/500V	3ABDA.800/500V	800mA
3AB001/500V	3ABDA001/500V	1A
3AB1.25/500V	3ABDA1.25/500V	1.25A
3AB01.6/500V	3ABDA01.6/500V	1.6A
3AB002/500V	3ABDA002/500V	2A
3AB02.5/500V	3ABDA02.5/500V	2.5A
3AB3.15/500V	3ABDA3.15/500V	3.15A
3AB004/500V	3ABDA004/500V	4A
3AB005/500V	3ABDA005/500V	5A
3AB06.3/500V	3ABDA06.3/500V	6.3A
3AB007/500V	-	7A
3AB008/500V	3ABDA008/500V	8A
3AB010/500V	3ABDA010/500V	10A
3AB12.5/500V	3ABDA12.5/500V	12.5A
3AB016/500V	3ABDA016/500V	16A
3AB020/500V	-	20A
3AB025/500V	-	25A



Dimensions in MM



Axial leaded versions also available.
See page 149 for further information.

I.R.: 1000A

Voltage: As listed above

Pack Size (bag): 10, 100

Holders: Clips (p112-113), Inline (p122),
Blocks (p146)

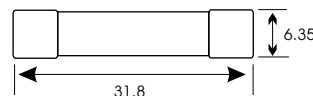
Imperial Dimensions: 1 1/4" x 1/4"

Approvals: RoHS

3AB 600V CERAMIC FUSES



Fast Acting (F) Part Number	Ampere Rating
3AB.200/600V	200mA
3AB.500/600V	500mA
3AB.800/600V	800mA
3AB001/600V	1A
3AB002/600V	2A
3AB003/600V	3A
3AB005/600V	5A
3AB007/600V	7A
3AB010/600V	10A



Dimensions in MM



Axial leaded versions also available.
See page 149 for further information.

I.R.: 1000A

Voltage: 600VAC

Pack Size (bag): 10, 100

Holders: Clips (p112-113),
Blocks (p146)

Imperial Dimensions: 1 1/4" x 1/4"

Approvals: RoHS

Introducing the Bel Fuse 5 x 20mm, 600VAC / 500VDC miniature, high breaking capacity fuse suitable for industrial power supply, DC/DC module as well as many other applications.

Cartridge	Axial Lead	Ampere
Part Number	Part Number	Rating
0ADKC0500	0ADKP0500	500mA
0ADKC0630	0ADKP0630	630mA
0ADKC0800	0ADKP0800	800mA
0ADKC1000	0ADKP1000	1A
0ADKC1250	0ADKP1250	1.25A
0ADKC1600	0ADKP1600	1.6A
0ADKC2000	0ADKP2000	2A
0ADKC2500	0ADKP2500	2.5A
0ADKC3150	0ADKP3150	3.15A
0ADKC4000	0ADKP4000	4A
0ADKC5000	0ADKP5000	5A
0ADKC6300	0ADKP6300	6.3A
0ADKC8000	0ADKP8000	8A
0ADKC9100	0ADKP9100	10A
0ADKC9120	0ADKP9120	12A
0ADKC9150	0ADKP9150	15A
0ADKC9160	0ADKP9160	16A
0ADKC9200	0ADKP9200	20A

Voltage: 600VAC / 500VDC

I.R.: 200A at 600VAC (all ratings)

300A at 500VDC (all ratings)

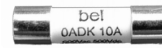
2kA at 400VDC (500mA to 10A)

Pack Size (box): 1000

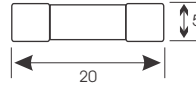
Operating Temp.: -55°C to +125°C

Options: Cartridge or cartridge with axial leads.

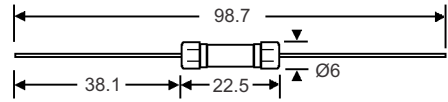
Approvals:



Cartridge Fuse



Axial Lead Fuse



Dimensions in MM

Axial Fuse	Axial Lead
Ampere Rating	Diameter
500mA - 6.3A	0.65mm
8A	0.81mm
10A - 15A	1.0mm
16A - 20A	1.2mm

1AG & 7AG GLASS FUSES

PROLEC



1AG (AGA)
Glass Body



7AG (AGW)
Glass Body



Fast Acting (F)	
Part Number	Ampere Rating
1AG.500	500mA
1AG001	1A
1AG002	2A
1AG02.5	2.5A
1AG003	3A
1AG005	5A
1AG07.5	7.5A
1AG010	10A
1AG015	15A
1AG020	20A
1AG025	25A
1AG030	30A

Voltage: 32VAC / 32VDC

Pack Size (bag): 10, 50, 100

Imperial Dimensions: 5/8" x 1/4"

Fast Acting (F)	
Part Number	Ampere Rating
7AG.500	500mA
7AG001	1A
7AG002	2A
7AG003	3A
7AG005	5A
7AG07.5	7.5A
7AG010	10A
7AG015	15A
7AG020	20A
7AG025	25A
7AG030	30A

Voltage: 32VAC / 32VDC

Pack Size (bag): 10, 50, 100, 1000

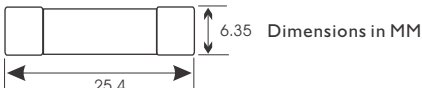
Imperial Dimensions: 7/8" x 1/4"

8AG & 8AB GLASS AND CERAMIC FUSES

PROLEC



8AG (AGX)
Glass Body



8AB (TDC)
Ceramic Body



Fast Acting (F)		
Part Number	Ampere Rating	Voltage
8AG.500	500mA	250V
8AG.750	750mA	250V
8AG001	1A	250V
8AG002	2A	250V
8AG003	3A	125V
8AG004	4A	125V
8AG005	5A	125V
8AG07.5	7.5A	32V
8AG010	10A	32V
8AG015	15A	32V
8AG020	20A	32V
8AG025	25A	32V
8AG030	30A	32V
8AG035	35A	32V

Voltage: See above

Additional Ratings: 5mA to 500mA

(Contact sales for details).

Pack Size (bag): 10, 100, 1000

Holders: Clips (p112-113)

Imperial Dimensions: 1" x 1/4"

Fast Acting (F)			Body Colour
Part Number	Ampere Rating	Voltage	
8AB001	1A	240V	●
8AB002	2A	240V	●
8AB002/600V	2A	600V	○
8AB003	3A	240V	●
8AB005	5A	240V	●
8AB007	7A	240V	●
8AB010	10A	240V	●
8AB010/600V	10A	600V	○
8AB013	13A	240V	●

I.R.: 6kA at 240VAC (TDC180)

I.R.: 6kA at 240VAC (TDC600)

I.R.: 200A at 600VAC (TDC600)

Voltage: See above

Pack Size (bag): 10, 100, 1000

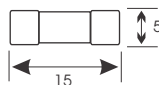
Imperial Dimensions: 1" x 1/4"

Approvals: (240V) BS1362 IEC 60269-3 CE

GB13539.3, GB13539.5

Approvals: (600V) BS1362

Fast Acting Part Number	Slow Acting Part Number	Ampere Rating
515.100R	-	100mA
515.125R	515DA.125R	125mA
515.250R	515DA.250R	250mA
515.375	515DA.375R	375mA
515.500R	515DA.500R	500mA
515.750R	515DA.750R	750mA
-	515DA001R	1A
51501.5R	515DA01.5R	1.5A
515002R	515DA002R	2A
51502.5R	515DA02.5R	2.5A
515003R	515DA003R	3A
51503.5R	515DA03.5R	3.5A
515004R	515DA004R	4A
515005R	515DA005R	5A
515006R	-	6A
515007R	-	7A



Dimensions in MM



Custom made pigtail fuse versions also available.
Contact sales for further information.

Fast Acting

Voltage: 250VAC (100mA to 5A),
125VAC (6A to 7A)
VDC Contact sales.

Pack Size (bag): 10, 100.

Holders: Clips.

Axial Leaded Version: Also available in pigtail version (loose, tape and reel format). Custom order.
Contact sales for further information.

Imperial Dimensions: 0.59" x 0.2"

Approvals Available: Optional

Slow Acting

Voltage: 250VAC (125mA to 3A),
125VAC (3.5A to 7A)
VDC Contact sales.

Pack Size (bag): 10, 100.

Holders: Clips.

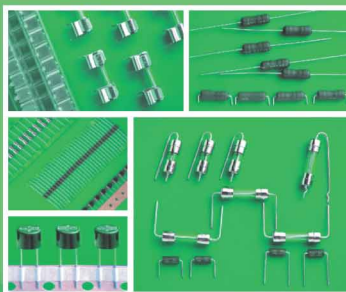
Axial Leaded Version: Also available in pigtail version (loose, tape and reel format). Custom order.
Contact sales for further information.

Imperial Dimensions: 0.59" x 0.2"

Approvals Available: Optional

Value Added Options

- Axial Lead Assembly
- Cut and Formed Leads
- Heat Shrink Insulating Sleeving
- Preassembled Fuses in Clips
- Tape & Reel Packaging
- Retail Clam Shell Packaging
- Retail Counter Stands
- Trade Assortment Kits



Contact sales for further information on the these value added options

M525 INDICATING FUSES



Part Number	Ampere Rating	Body Type	Indicator Colour
525i-NB.080	80mA	Glass	Grey
525i-NB.100	100mA	Glass	Red
525i-NB.125	125mA	Glass	Violet
525i-NB.160	160mA	Glass	Orange
525i-NB.200	200mA	Glass	Blue
525i-NB.250	250mA	Glass	Yellow
525i-NB.315	315mA	Glass	Black
525i-NB.400	400mA	Glass	Brown
525i-NB.500	500mA	Glass	White
525i-NB.630	630mA	Glass	Green

525i-NB.800	800mA	Ceramic	Grey
525i-NB001	1A	Ceramic	Red
525i-NB1.25	1.25A	Ceramic	Violet
525i-NB01.6	1.6A	Ceramic	Orange
525i-NB002	2A	Ceramic	Blue
525i-NB02.5	2.5A	Ceramic	Yellow
525i-NB3.15	3.15A	Ceramic	Black
525i-NB004	4A	Ceramic	Brown
525i-NB005	5A	Ceramic	White
525i-NB06.3	6.3A	Ceramic	Green
525i-NB008	8A	Ceramic	Grey
525i-NB010	10A	Ceramic	Red
525i-NB016	16A	Ceramic	Violet

Feature: Equipped with colour coded indicator in top cap for visual indication of blown fuse.



Glass Body



Ceramic Body



Dimensions in MM

I.R.: Contact sales for information.
Voltage: 250VAC
Characteristic: Medium Acting
Pack Size (bag): 10, 100, 1000
Holders: Clips (p112)
Notes: 450V version also available, contact sales.
Approvals: 41576-2

M530 GLASS FUSES



Part Number	Ampere Rating	Body Type
530-NB.032	32mA	Glass Body
530-NB.050	50mA	Glass Body
530-NB.063	63mA	Glass Body
530-NB.080	80mA	Glass Body
530-NB.100	100mA	Glass Body
530-NB.125	125mA	Glass Body
530-NB.160	160mA	Glass Body
530-NB.200	200mA	Glass Body
530-NB.250	250mA	Glass Body
530-NB.315	315mA	Glass Body
530-NB.400	400mA	Glass Body
530-NB.500	500mA	Glass Body
530-NB.630	630mA	Glass Body
530-NB.800	800mA	Glass Body
530-NB001	1A	Glass Body
530-NB1.25	1.25A	Glass Body

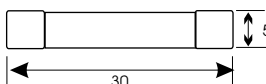
530-NB01.6	1.6A	Glass, Sand Filled
530-NB002	2A	Glass, Sand Filled
530-NB02.5	2.5A	Glass, Sand Filled
530-NB3.15	3.15A	Glass, Sand Filled
530-NB004	4A	Glass, Sand Filled
530-NB005	5A	Glass, Sand Filled
530-NB06.3	6.3A	Glass, Sand Filled
530-NB008	8A	Glass, Sand Filled
530-NB010	10A	Glass, Sand Filled



Glass Body



Glass Body, Sand Filled



Dimensions in MM

I.R.: Contact sales for information.
Voltage: 500VAC
Characteristic: Medium Acting
Pack Size (bag): 10, 100, 1000
Holders: Clips (p112)
Approvals:

ALARM INDICATING FUSES MP/SMP SERIES



Fast Acting Slow Acting

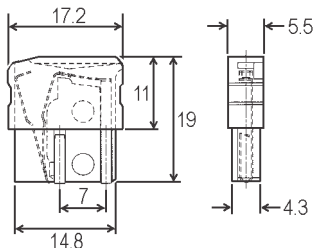
Part Number	Part Number	Rating
MP05	—	500mA
MP063	—	630mA
—	SMP10	1A
—	SMP16	1.6A

I.R.: 100A at 125VAC, 100A at 125VDC (MP & SMP)

Voltage: 125VAC/VDC

Body Colour: MP & SMP (Dark Green)

Approvals:



Dimensions in MM

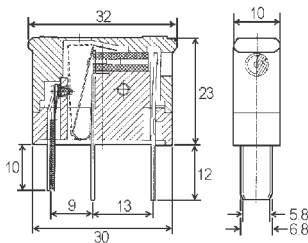
ELECTRONIC

ALARM INDICATING FUSES P/PL SERIES



Fast Acting

Part Number	Rating	Body Colour
P403	300mA	Black
P435	3.5A	Black
PL475	7.5A	Brown
PL4100	10A	Brown
PL4150	15A	Brown



Dimensions in MM

I.R. & Voltage: 2.5kA at 220VAC, 1.5kA at 250VDC (P403 to P450)

2.5kA at 125VAC, 1.5kA at 125VDC (PL475 to PL4100)

1kA at 125VAC/VDC (PL4150)

Body Colours: Black (P4), Brown (PL4)

Approvals:

ALARM INDICATING FUSES GP SERIES



Normal Acting

Part Number	Rating
GP32	3.2A
GP100	10A

I.R.: 1500A at 250VAC (320mA to 5A),

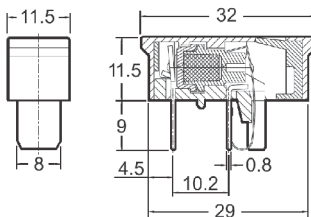
750A at 250VAC (7.5A to 15A)

10kA at 125VDC (all ratings)

Voltage: 250VAC/VDC

Body Colour: Dark Green

Approvals:



Dimensions in MM

CARTRIDGE FUSE ASSORTMENT KITS

PROLEC

Part Number **10 Compartments - 100pcs in total**
205-FB-KIT 20 x 5mm Glass, Fast Acting, M205
205-SB-KIT 20 x 5mm Glass, Slow Acting, M205
Ratings (10pcs per rating): 100mA, 250mA, 500mA, 1A, 1.6A, 2A, 3.15A, 5A, 6.3A & 10A
Voltage: 250VAC



Part Number **10 Compartments - 100pcs in total**
3AG-FB-KIT 32 x 6.35mm Glass, Fast Acting, 3AG
3AG-SB-KIT 32 x 6.35mm Glass, Slow Acting, 3AG
Ratings (10pcs per rating): 100mA, 250mA, 500mA, 1A, 1.5A, 2A, 3A, 5A, 6A & 10A
Voltage (3AG-FB-KIT): 250VAC (100mA to 10A)
Voltage (3AG-SB-KIT): 250VAC (100mA to 6A), 32VAC (10A)



ELECTRONIC

AUTOMOTIVE FUSE ASSORTMENT CADDIES

EATON **Bussmann**

Part Number **5 Tray Kit Contents - 275pcs in total**
FUSE-CADDY1 This caddy contains a variety of fuses in popular ratings (2A - 100A). Fuse types include; MIN, LPM, ATOF, MAX & LJC. The caddy features a convenient folding handle and security latch.



Part Number **10 Tray Kit Contents - 372pcs in total**
FUSE-CADDY2 This caddy contains most automotive blade and high amp fuses in popular ratings. (2A - 300A). Fuse types include; MIN, LPM, ATOF, MAX, MJC, LJC, ASF, FSF, MICR2, MICR3, JTF, LBF, SBF, BTF, MID & MEG. The caddy features a convenient folding handle and two security latches.



Scan this
QR Code
for more
information

QR Code: 3002

PACKAGING OPTIONS

PROLEC

Extended packaging options are now available for retail or trade markets.
 Contact sales for further information.

Poly Bag
Small - Large



Boxed Kits



Retail Clamshells
Single Cavity



Retail Clamshells
Multi Cavity



Counter Displays



Automotive Fuses & Circuit Breakers



Blade Fuse



Bolted Tag Fuse



Hi-Amp Circuit Breaker

Fuses

Micro2	26
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Minifuse	26
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Maxifuse	26
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Battery Fuse	27
Midifuse 32V & 58V	28
Megafuse 32V & 70V	28
Lift Truck Fuses 48 & 80V	29

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Circuit Breakers

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Auto Blade	30
Panel Mount	31
Circuit Breaker Switch	31
High Amperage (Hi-AMP)	32
Short Stop	33
Mid Range	33
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Page

Prolec's 'Circuit Protection & Power Distribution' Catalogue (5th Edition) is now available.

The Fuse Bible has only a small portion of the automotive circuit protection and power distributions products that are currently available. To see an extended range of automotive fuses, circuit breakers, power distribution modules, fuse blocks, fuse panels, modular fuse & relay blocks, power distribution systems, relays & relay connectors, switches, switch breaker panels, junction blocks etc.

Download a copy from our website www.swe-check.com.au.

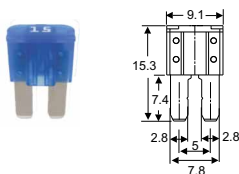


Swe-Check

25

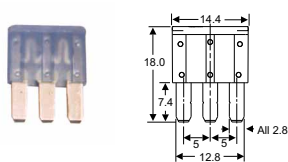
MICRO2 FUSE

NEW

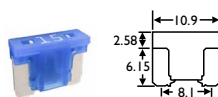


MICRO3 FUSE

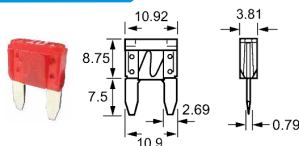
NEW



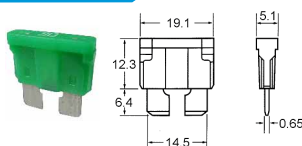
LOW PROFILE MINIFUSE



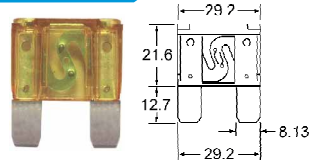
MINIFUSE



AUTOFUSE



MAXIFUSE



Micro2 Fuse Fast Acting Part Number	Micro3 Fuse Fast Acting Part Number	Low Profile Minifuse Fast Acting Part Number	Minifuse Fast Acting Part Number	Autofuse Fast Acting Part Number	Maxifuse Slow Acting Part Number	Ampere Rating
-	-	-	-	ATOF001	-	1A
-	-	LPM002	MIN002	ATOF002	-	2A
-	-	LPM003	MIN003	ATOF003	-	3A
-	-	LPM004	MIN004	ATOF004	-	4A
MICR2005	MICR3005	LPM005	MIN005	ATOF005	-	5A
MICR207.5	MICR307.5	LPM07.5	MIN07.5	ATOF07.5	-	7.5A
MICR2010	MICR3010	LPM010	MIN010	ATOF010	-	10A
MICR2015	MICR3015	LPM015	MIN015	ATOF015	-	15A
MICR2020	-	LPM020	MIN020	ATOF020	MAX020	20A
MICR2025	-	LPM025	MIN025	ATOF025	MAX025	25A
MICR2030	-	LPM030	MIN030	ATOF030	MAX030	30A
-	-	-	-	ATOF035	MAX035	35A
-	-	-	-	ATOF040	MAX040	40A
-	-	-	-	-	MAX050	50A
-	-	-	-	-	MAX060	60A
-	-	-	-	-	MAX070	70A
-	-	-	-	-	MAX080	80A
-	-	-	-	-	MAX100	100A

I.R. & Voltage (Micro2, Micro3, Minifuse, Autofuse, Maxifuse): 1000A at 32VDC

I.R. & Voltage (Low Profile Minifuse): 1000A at 58VDC

Pack Size (Bulk Bag): 10, 100, 1000

Retail (Clamshell): 5pc, 25pc and 50pc (All Fuses except Maxifuse), 1 pc (Maxifuse).

Holders (Micro2 & LP Minifuse): Inline & Fuse Blocks.*

(Minifuse): Clips & Base (p116), Inline (p123) & Blocks.*

(Autofuse): Clips & Base (p116-117), Inline (p123) & Blocks.*

(Maxifuse): Clips, Inline & Blocks.*

Fuse Pullers: Extractors and Testers (p150).

Notes: *Please contact sales for further information.

Approvals: ISO 8820 **SAE** **RoHS**

FUSE OPTIONS:



LED indicating and higher voltage versions are also available.

RELATED PRODUCTS: An extensive range of automotive inline fuse holders, fuse panels, modular power distribution fuse and relay blocks are also available please contact sales for further information.



MCPS

NEW



MJC



LJC



JTF



ASF



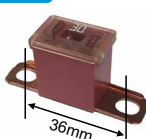
SHF



LHF



SBF



LBF



BTF



Fuse Type	Ampere Range	Voltage	I.R.	Body Type	Terminal Type
MCPS..	15A to 60A	32VDC	1kA	Micro Profile	Female Slotted
MJC..	15A to 40A	32VDC	1kA	Micro Profile	Female
LJC..	20A to 60A	58VDC	1kA	Low Profile	Female
JTF..	20A to 80A	32VDC	1kA	Small Body	Female
ASF..	20A to 60A	32VDC	TBC	Large Body	Female
SHF..	25A to 30A	32VDC	TBC	Small w/Lock	Female
LHF..	45A to 75A	32VDC	TBC	Large w/Lock	Female
SBF..	30A to 140A	32VDC	TBC	Large Body	Short Bent Male
LBF..	30A to 140A	32VDC	TBC	Large Body	Long Bent Male
BTF..	30A to 140A	32VDC	TBC	Large Body	Straight Male

Pack Size: 1, 10, 100, 500

Holders: Inline, Panel Mount, Modular Blocks (contact sales).

Characteristic: Slow Acting. **Features:** Element window.

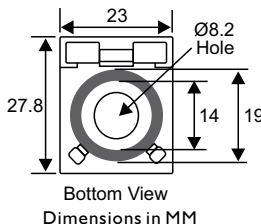
Notes: Contact sales for further information on product specifications, approvals, pack sizes etc.

MARINE RATED BATTERY FUSE 58V

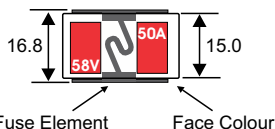
EATON Bussmann

Part Number	Ampere Rating	Face Colour
MRBF030	30A	Lt. Green
MRBF040	40A	Lt. Blue
MRBF050	50A	Red
MRBF060	60A	Gold
MRBF075	75A	Brown
MRBF080	80A	Lime
MRBF090	90A	Purple
MRBF100	100A	Yellow
MRBF125	125A	Green
MRBF150	150A	Orange
MRBF175	175A	White
MRBF200	200A	Blue
MRBF225	225A	Tan
MRBF250	250A	Pink
MRBF300	300A	Grey

Marine Rated
Battery Fuse



Transparent cover with
colour coded front face.



I.R.: 2kA at 58VDC, 5kA at 32VDC, 10kA at 14VDC.

Voltage: 58VDC **Characteristic:** Slow Acting.

Features: Element window. Colour coded panel.

Weatherproof (IP66). Ignition protected per SAE J1171.

Notes: The fuse must be used in conjunction with a battery fuse bar.

Pack Size: 1, 10, 100

Holders: Battery Fuse Bar - Single and Double Pole (p126).

Approvals: SAE ISO 8820-6

RELATED PRODUCTS:

MRBF
Battery Fuse Bar
Page 126



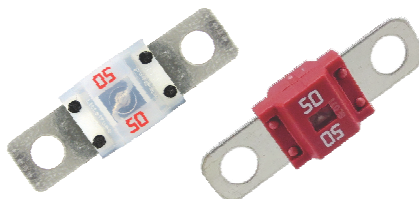
MIDI FUSE 32V & 58V



Space saving fuse provides for high current wiring protection.

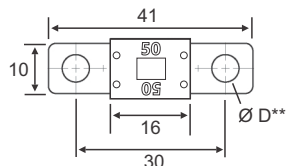
NEW

32V M5 Hole	58V M6 Hole	Ampere Rating	Colour	Code
Part Number	Part Number			
MID020-32V	MID020-58VM6	20A	Blue	■
MID023-32V	-	23A	White	□
MID030-32V	MID030-58VM6	30A	Orange	■
MID040-32V	MID040-58VM6	40A	Green	■
MID050-32V	MID050-58VM6	50A	Red	■
MID060-32V	MID060-58VM6	60A	Yellow	■
MID070-32V	MID070-58VM6	70A	Brown	■
MID080-32V	MID080-58VM6	80A	White	□
MID100-32V	MID100-58VM6	100A	Blue	■
MID125-32V	MID125-58VM6	125A	Pink	■
MID150-32V*	MID150-58VM6	150A	Lt. Grey	■
MID175-32V*	MID175-58VM6	175A	Dk. Grey	■
MID200-32V*	MID200-58VM6	200A	Violet	■



32VDC M5 Model

58VDC M6 Model



RELATED PRODUCT:



Fuse Block
(see p.124)

I.R.: 1kA at 32VDC. **Voltage:** 32VDC (#MIDxxx-32V)

I.R.: 1kA at 58VDC. **Voltage:** 58VDC (#MIDxxx-58V)

Characteristic: Slow Acting

Features: Element window (except 20A & 23A).

Mounting: (32V) M5 stud only. $\varnothing D^{**} = 5.5\text{mm}$
(58V) M5 or M6 stud. $\varnothing D^{**} = 6.2\text{mm}$

Notes (32VDC): * Short circuit protector only.

Notes (58VDC): All ratings approved.

Pack Size: 1, 10, 100, 500, 1000

Holders: In-line, Blocks & Power Distribution Units.

Approvals: ISO 8820-5 RoHS

Dimensions in MM

Amp Ratings	A	B	C
20A-80A	0.41	4.0	8.0
100A-200A	0.63	4.3	8.3

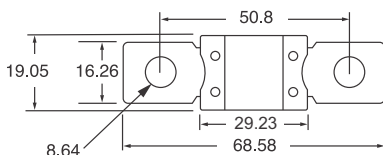
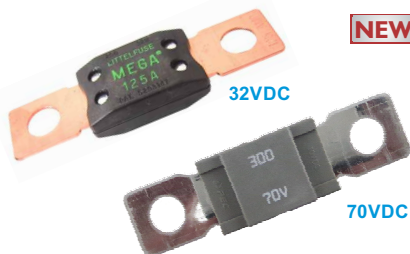
MEGA FUSE 32V & 70V



Ideal for battery and alternator connectors and other heavy gauge cables requiring ultra-high current protection.

NEW

32V	70V	Ampere Rating	Font / Body Colour
Part Number	Part Number		
MEG040	-	40A	White □
MEG060	MEG060-70V	60A	W / LtB ■
MEG080	MEG080-70V	80A	Red ■
MEG100	MEG100-70V	100A	Yellow ■
MEG125	MEG125-70V	125A	Green ■
MEG150	MEG150-70V	150A	Orange ■
MEG175	MEG175-70V	175A	White □
MEG200	MEG200-70V	200A	Blue ■
MEG225	MEG225-70V	225A	Tan ■
MEG250	MEG250-70V	250A	Pink ■
MEG300*	MEG300-70V	300A	Grey □
MEG350*	MEG350-70V	350A	Green ■
MEG400*	MEG400-70V	400A	Purple ■
MEG450*	MEG450-70V	450A	Dk Yellow ■
MEG500*	MEG500-70V	500A	Brown ■



RELATED PRODUCT:



Fuse Block
(see p.125)

I.R.: 2kA at 32VDC. **Voltage:** 32VDC (#MEGxxx)

I.R.: 2kA at 70VDC. **Voltage:** 70VDC (#MEGxxx-70V)

Characteristic: Slow Acting

* Short circuit protectors only.

Mounting: M8 or 5/16" studs

Holders: Inline, Blocks & Power Distribution Units.

Pack Size: 1, 10, 100, 500

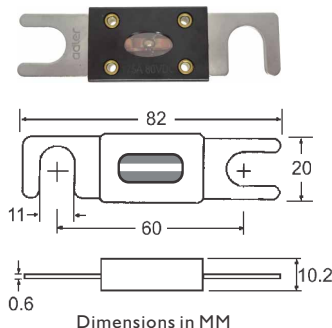
Approvals: ISO 8820-5 RoHS

Dimensions in MM

Amp Ratings	A	B
40A - 250A	1.02	9.9
300A - 500A	1.83	10.67

These fuses are designed for the heavy duty loads associated with DC battery powered equipment such as forklifts, hand trucks, motorized work platforms and other DC battery operated systems.

Bussmann Fast Acting Part Number	Bussmann Very Fast Acting Part Number	Adler Fast Acting Part Number	Ampere Rating
-	ANN010	-	10A
ANL035	ANN035	FBT030	30A
ANL040	ANN040	FBT035	35A
ANL050	ANN050	FBT040	40A
ANL060	ANN060	FBT050	50A
ANL080	ANN080	FBT060	60A
-	ANN090	FBT080	80A
ANL100	ANN100	-	90A
ANL125	ANN125	FBT100	100A
ANL130	-	FBT125	125A
ANL150	ANN150	FBT130	130A
ANL175	ANN175	FBT150	150A
ANL200	ANN200	FBT175	175A
ANL225	ANN225	FBT200	200A
ANL250	ANN250	FBT225	225A
ANL275	ANN275	FBT250	250A
ANL300	ANN300	FBT275*	275A
ANL325	ANN325	FBT300	300A
ANL350	ANN350	FBT325*	325A
-	-	FBT350	350A
ANL400	ANN400	FBT355	355A
-	-	FBT400*	400A
ANL500	ANN500	FBT425	425A
ANL600	ANN600	FBT500	500A
ANL675	-	FBT600	600A
-	ANN700	FBT675	675A
ANL750	-	FBT700	700A
-	ANN800	FBT750	750A
-	-	FBT800	800A



FBT Specifications

I.R.: 6 x rated current at 48VDC

Voltage: 48VDC

Features: Element inspection window.

Pack Size : 1, 20, 50

Holders: Block (p126)

Notes: Also available without housing.

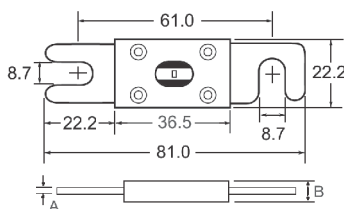
* Not mentioned in the standards.

Housed fuse strips suitable for battery-powered vehicles. Not intended for automotive or truck applications.

Approvals:  UL248, DIN 43560 



ANL Series	Dimensions in MM	
Ampere Rating	A	B
35A to 200A	0.45	7.55
225A to 325A	1.40	8.70
350A to 675A	2.70	9.50
750A	3.35	10.9



ANL Specifications

I.R.: 6kA (35A to 500A, 32VAC)
2.7kA (600A to 750A, 32VAC)
2.7kA (All ratings, 80VDC)

Voltage: 32VAC / 80VDC

Features: Element inspection window.

Ignition Proof (<500A).

Holders: Block (p126)

Pack Size: 1, 5

Approvals:

 SAE Ignition protected (35A to 500A)

 (600A, 675A & 750A ratings)



RELATED PRODUCTS:



Fuse Block
(see p.126)



ANN Series	Dimensions in MM	
Ampere Rating	A	B
10A to 300A	1.19	9.12
325A to 600A	4.47	12.70
700A to 800A	5.94	13.49

ANN Specifications

I.R.: 2.5kA (125VAC), 2.7kA (80VDC)

Voltage: 125VAC, 80VDC

Holders: Block (p126)

Features: Element inspection window.

Pack Size: 1, 5

Notes: ANN series is not ignition proof

Approvals:

 (35A-400A, 500A DC only)

 (35A-400A, 500A DC only)



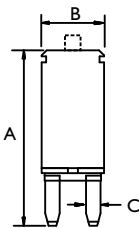
Mini Blade Automatic Reset Type I 211 Series	Mini Blade Modified Reset Type II 212 Series	Mini Blade Manual Reset Type III 233 Series	Auto Blade Modified Reset Type II 222 Series	Auto Blade Manual Reset Type III 227 Series	Auto Blade Manual Reset Type III (P.T.T.) 435T Series	Ampere Rating
Part Number	Part Number	Part Number	Part Number	Part Number	Part Number	
-	-	-	-	-	435T0025	250MA
-	-	-	-	-	435T0050	500MA
-	-	-	-	-	435T0100	1A
-	-	-	-	-	435T0200	2A
-	-	-	-	-	435T0300	3A
-	-	-	-	-	435T0400	4A
21105-00	21205-00	23305-00	22205-400	22705-00	-	5A
-	-	-	-	22706-00	435T0600	6A
21175-00	21275-00	23375-00	22275-400	22775-00	435T0800	7.5A/8A
21110-00	21210-00	23310-00	22210-400	22710-00	435T1000	10A
21115-00	21215-00	23315-00	22215-400	22715-00	-	15A
21120-00	21220-00	23320-00	22220-400	22720-00	-	20A
21125-00	21225-00	23325-00	22225-400	22725-00	-	25A
21130-00	21230-00	23330-00	22230-400	22730-00	-	30A

Holders (Mini): PCB Clips & Base (p116), Inline (p123), Blocks (contact sales).

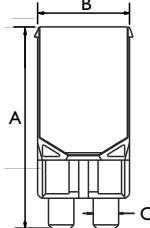
Holders (Auto): PCB Clips & Base (p116), Inline (p123), Blocks (p145).

Series	VDC	VAC	I.R. Rating	Body Type	Reset Action	Diagram	A	B	C	Depth
211	14VDC	--	150A to 450A	Mini	Auto	1	36	12.5	2.8	6.4
212	14VDC	--	150A to 450A	Mini	Modified	1	36	12.5	2.8	6.4
233	28VDC	--	100A to 300A	Auto	Manual	1	35	12.5	2.8	6.4
222	14VDC	--	150A to 450A	Auto	Modified	2	40.5	19.0	5.2	7.3
227	28VDC	--	2000A	Auto	Manual Manual	3	41.1	19.3	5.2	6.4
435T	72VDC / 250VAC		2000A	Auto	PTT	4	58.7	24.4	5.2	8.2

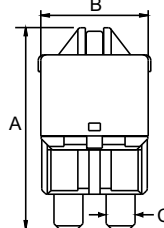
Mini Body
Diagram 1



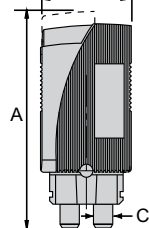
Auto Body
Diagram 2



Auto Body
Diagram 3



Auto Body
Diagram 4



Type I (Automatic Reset): Cycles or continuously resets until the fault is corrected.

Type II (Modified Reset): Non-cycling, remains in open position while there is power to the circuit. Resets when the power is turned off.

Type III (Manual Reset): Non-cycling, manually resettable circuit breakers remain in the open position until a button, lever or other external reset device is manually depressed to re-engage the circuit.

Type III* (Manual Reset - Push to Trip): Same as a Type III manual reset breaker however the user can press a button on the breaker to open the circuit manually.

Type III* (Manual Reset - Switchable): Same as a Type III manual reset breaker however the user can open the circuit by moving an external switch lever to the OFF position. This same lever can be used to re-engage the circuit by moving the lever back to the ON position, just like a switch.

CIRCUIT BREAKERS - PANEL MOUNT



Series 14 manual reset panel mount circuit breakers are suitable for a variety of applications ranging from medical equipment to household appliances. We offer two standard versions, but they can also be ordered in customised versions with alternative bushing, termination, mounting, button and reset options.



3/8"-27 Nylon Bushing 1/4" QC Terminal

Part Number	Part Number	Ampere Rating
1480-103-030	1480-123-030	3A
1480-103-040	1480-123-040	4A
1480-103-050	1480-123-050	5A
1480-103-060	1480-123-060	6A
1480-103-070	1480-123-070	7A
1480-103-080	1480-123-080	8A
1480-103-100	1480-123-100	10A
1480-103-120	1480-123-120	12A
1480-103-150	1480-123-150	15A
1480-103-160	1480-123-160	16A
1480-103-200	1480-123-200	20A
1580-101-250	1580-131-250	25A
1580-101-300	1580-131-300	30A
-	1580-131-350	35A
-	1580-131-400	40A

3/8"-27 Nylon Bushing Screw Terminal 90°



1/4" Quick Connect
Straight Terminal



#6-32 Screw
Bent 90° Terminal

Voltage: 250VAC / 50VDC.

I.R.: 1kA at 250VAC / 50VDC, 3kA at 32VDC.

Reset Mechanism: Type III, Manual Reset.

Button: White button with black ampere rating stamp.

Mounting: Panel mount - includes Pal nut & Knurl nut.

Quick Connect Terminals: Male 1/4" (6.35mm).

Screw Terminals: 3A-20A (#6-32), 25A-40A (#8-32).

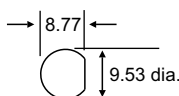
Features: Ignition Protected UL 1500.

Options: 7/16"-28 metal bushing.

Pack Size: Stock lines 1pc, Indent items 50pcs.

Waterproof Boots: 1680-318-1 (Clear)

1680-330-1 (Black)



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QR Code: 10001

Approvals:



(Not all ratings, please refer to datasheet for full details.)

CIRCUIT BREAKER / SWITCH - PANEL MOUNT



Series 24 is a rocker style, switchable single pole circuit breaker offering trip-free protection. It provides the convenience of a switch and circuit breaker in one device. It is designed for snap-in panel mount applications.

Black Rocker (with I/O marking)

Part Number	Part Number	Ampere Rating
2410-100-159-050	2410-102-120-050	5A
2410-100-159-100	2410-102-120-100	10A
2410-100-159-150	2410-102-120-150	15A
2410-100-159-200	2410-102-120-200	20A
2410-100-159-250	2410-102-120-250	25A
2410-100-159-300	2410-102-120-300	30A

Red Illuminated Rocker* (without marking)



Voltage: 250VAC / 50VDC Max.

Short Circuit Rating (IEC):

2.5A to 20A: 150A (1 pole).

Reset Mechanism: Type III, Manual Reset

Dielectric Strength: 2000V (IEC)

Terminals: 2.8mm/6.3mm combination Q.C.

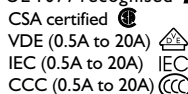
Operating Temp: -30°C to 60°C

Pack Size: Stocked items 1pc.

Notes: *Red illuminated switch features an incandescent light which requires 10 to 14VDC to operate. Lamp current draw is 38mA at 12VDC.

Options: 1 or 2 pole, switch guards, switch markings, colours, splash guard, switch illumination, quick connect or screw terminals & full range of ampere ratings from 100mA to 30A.

Approvals: UL 1077 recognised



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information



QR Code: 10002

Features:

- Ignition protected and weatherproof.
- Robust thermoplastic case.
- Corrosion resistant studs & hardware.
- Made in USA.

MIL-STD

IP67

**IGNITION
PROTECTED**

Surface Mount Manual Reset Type TIII PTT

Part Number	Part Number	Ampere Rating
175-S0-025	175-P0-025	25A
175-S0-030	175-P0-030	30A
175-S0-035	175-P0-035	35A
175-S0-040	175-P0-040	40A
175-S0-050	175-P0-050	50A
175-S0-060	175-P0-060	60A
175-S0-070	175-P0-070	70A
175-S0-080	175-P0-080	80A
175-S0-090	175-P0-090	90A
175-S0-100	175-P0-100	100A
175-S0-110	175-P0-110	110A
175-S0-120	175-P0-120	120A
175-S0-135	175-P0-135	135A
175-S0-150	175-P0-150	150A
175-S0-175	175-P0-175	175A
175-S0-200	175-P0-200	200A
174-S2-225* ^	175-P2-225*	225A
174-S2-250* ^	174-P2-250* ^	250A

**NEW
NEW**

* 3/8" Studs. ^ Manual reset only.

Panel Mount Manual Reset Type TIII PTT

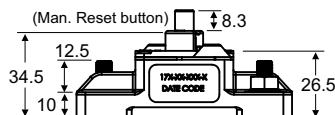
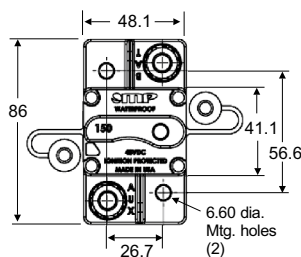


**Manual Reset
Surface Mount**

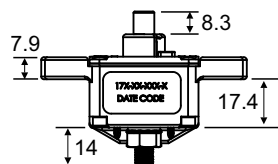
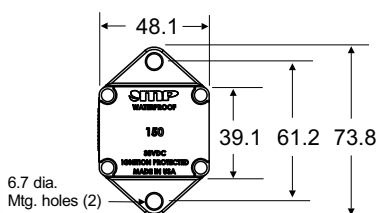


**Manual Reset
Panel Mount**

Surface Mount



Panel Mount



Dimensions in MM

I.R. Ratings:

Type TIII (25A-150A): 2.5kA at 14VDC, 1.5kA at 48VDC.

Type TIII (175A-200A): 2.5kA at 14VDC, 1.5kA at 30VDC.

Type TIII (225A-250A): 1.5kA at 14VDC.

Voltage Ratings:

Type TIII: (25A-150A): 48VDC, (175A-200A): 30VDC.

Type TIII: (225A-250A): 14VDC.

Pack Size: Stock lines 1 pc, indent items 9 or 36 pcs.

Housing: UL94 V-0 rated black thermoplastic.

Terminal: 1/4" Stainless steel studs and sems nuts included.

Operating Temp: -40°C to 85 °C.

Ingress Protection Rating: IP67

Indicator: Bright yellow colour reset mechanism provides visual indication of tripped condition on manual reset breakers (Type TIII).

Stud Insulator Caps: Included.

Terminal Hardware: Stainless steel sems nuts included.

Options: Automatic reset (Type I) circuit breakers also available.

Approvals: SAE J1625, J1171, ABYC E-11, MIL-STD-202, UL1077

RELATED PRODUCTS:



TripID: Snap on, suit surface mount accessory provides a red lit visual indication of an open circuit condition.

Part Number: I7LED-R

Voltage Rating: 10-30VDC



Gasket Accessory

Panel mount accessory.

Part Number: B156-7003-J

Material: Black Santoprene.

Notes: Suits I75-Px series

CIRCUIT BREAKERS - SHORTSTOP

EATON Bussmann

12VDC Automatic TI

Part Number

I21A05-B2P
I21A08-B2P
I21A10-B2P
I21A15-B2P
I21A20-B2P
I21A25-B2P
I21A30-B2P
I21A35-B2P
I21A40-B2P
I21A50-B2P

12VDC - 24VDC Manual TIII

Part Number

I23A05-B2P
I23A08-B2P
I23A10-B2P
I23A15-B2P
I23A20-B2P
I23A25-B2P
I23A30-B2P
I23A35-B2P
I23A40-B2P
I23A50-B2P

Ampere
Rating

5A
8A
10A
15A
20A
25A
30A
35A
40A
50A

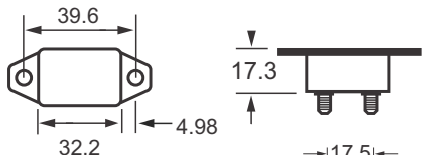


**12VDC, TI
Automatic Reset**



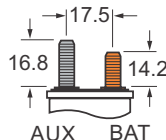
**12VDC - 24VDC
Manual Reset, TIII**

IGNITION
PROTECTED
IP66*



Dimensions in MM

Terminal Specs:
Two 10-32 studs



Voltage: 14VDC (I21 Series), 28VDC (I23 & I24 series)

I.R.: 2.5kA @ 12VDC (Branch circuit protection).

Operating Temp: -40°C to 85°C, **Storage Temp:** -40°C to 125°C

Features: Ignition Protected **Ingress Protection Rating:** IP66*
(Plastic cover only, except terminals).

Pack Size: Stock lines 1pc, indent items 250pcs.

Notes: Keys lock nuts included with circuit breakers.

Approvals: SAE J553, J1171

RELATED PRODUCTS:

Part

Number	Description
CBBP	Clear Cover Parallel TIII ☐
CBBR	Red PVC Terminal Boot ☐
CBBB2	2 Position Brass Tin Busbar
CBBB3	3 Position Brass Tin Busbar
CBBB6	6 Position Brass Tin Busbar

Cover **NEW**



Boot



Push button
to reset



Busbars



AUTOMOTIVE

CIRCUIT BREAKERS - MID RANGE

EATON Bussmann

Features:

- Ignition protected and weatherproof.
- Elastomer over mold front.

Auto Reset TI Threaded Mt

Part Number

25110-B-I
25115-B-I
25120-B-I
25125-B-I
25130-B-I
25135-B-I
25140-B-I
25150-B-I

Manual Reset TIII Non-Threaded Mt

Part Number

25510-A-I
25515-A-I
25520-A-I
25525-A-I
25530-A-I
25535-A-I
25540-A-I
25550-A-I

Ampere
Rating

10A
15A
20A
25A
30A
35A
40A
50A



**Auto Reset
No Button
(25I series)**



**Manual Reset
Push To Trip - Button
(255 series)**

IGNITION
PROTECTED
IP66

Voltage: 32VDC **I.R.:** 2.5kA as per ABYC E-11.

Terminal Hardware: Nylock nuts installed.

Mounting Hole Types: -A-I (suffix) #10 Thread-hole insert (not threaded).
-B-I (suffix) #8-32 (threaded inserts).

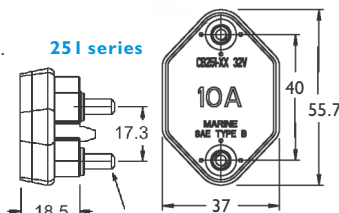
Termination: #10-32 Threaded studs.

Operating Temp: -40°C to 85°C **Storage Temp:** -40°C to 125°C

Ingress Protection Rating: IP66 **Body:** UL 94 V-0 thermoset plastic
Indicator: The 255 series has a unique highly visible yellow colour reset mechanism which provides a visual indication of tripped condition & features a push-to-trip (PTT) option.

Pack Size: Stock lines 1pc, indent items 60pcs.

Approvals: SAE J553, J1171 & ABYC E-11.



Dimensions in MM

Swe-Check

Email: sales@swe-check.com.au
Phone: (+61) 03 9521 6133

Typically used in DC power systems in marine applications (as a main or branch circuit breaker), truck and bus systems, RV systems, add-on protection for accessories, lift gates, etc.

IGNITION
PROTECTED
IP66

Features:

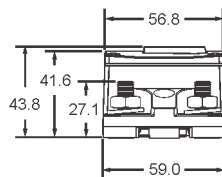
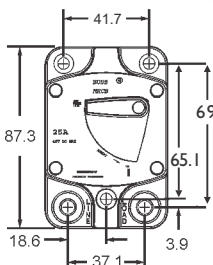
- Single lever for manual reset switching operations.
- Capable of withstanding 3000 on/off cycles at 48VDC.
- Ignition Protected and weatherproof.
- Corrosion resistive materials.
- Large clearance around studs to accept large gauge wire lugs.

Surface Mount Manual Reset TIII Switchable

Part Number	Part Number	Ampere Rating
I87025F-03-I	I87025P-03-I	25A
I87030F-03-I	I87030P-03-I	30A
I87035F-03-I	I87035P-03-I	35A
I87040F-03-I	I87040P-03-I	40A
I87050F-03-I	I87050P-03-I	50A
I87060F-03-I	I87060P-03-I	60A
I87070F-03-I	I87070P-03-I	70A
I87080F-03-I	I87080P-03-I	80A
I87100F-03-I	I87100P-03-I	100A
I87110F-03-I	I87110P-03-I	110A
I87120F-03-I	I87120P-03-I	120A
I87135F-03-I	I87135P-03-I	135A
I87150F-03-I	I87150P-03-I	150A
I87200F-03-I	I87200P-03-I	200A

Panel Mount Manual Reset TIII Switchable

Surface Mount Manual Reset



5/16" - 18 Threaded Studs

Voltage: 48VDC

I.R.: Main Breaker Protection.

5kA at 14VDC, 3kA at 28VDC, 1.5kA at 48VDC

Reset Mechanism: Type TIII, Manual reset & switchable.

Pack Size: Stock lines 1pc, indent items 60pcs.

Mounting Options: Surface or Panel Mount.

Operating Temp: -40°C to 85°C.

Storage Temp: -40°C to 125°C

Materials: Base UL-Rated 94V-0 thermoset plastic.

Cover & lever UL-Rated 94V-0 thermoplastic.

Marking: Standard marking includes amp/volt ratings.

Terminal Hardware: Stainless nuts & lock washers installed.

Termination: 5/16" - 18 threaded studs.

Torque Rating: 8.5Nm max.

Mounting Torque Rating: 5.6Nm max.

Ingress Protection Rating: IP66

Approvals: SAE J1171, ABYC E-11 CE

Panel Mount Manual Reset



NEW

Series 87.

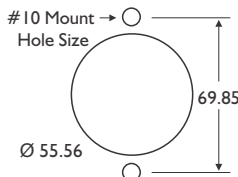
Marine Rated
Circuit Breakers.
Panel or Surface Mount
48VDC
25A through to 250A.



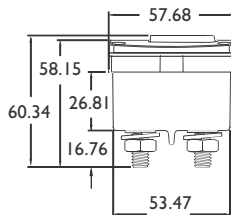
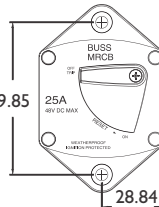
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Recommended Panel Mounting Cut-Out



Recessed Mounting Hole for #10 Screws



Dimensions in MM

5/16" - 18 Threaded Studs

Semiconductor Fuses & DC, EVSE, & PV Fuses



Cartridge Semiconductor Fuse



British Semiconductor Fuse



American Semiconductor Fuse

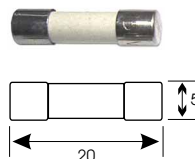
Semiconductor Fuses

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PV & DC Battery Fuses

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Battery Fuse NH Type	65
PV NH Fuses 1000VDC	66
PV NH XL Fuses 1500VDC	67
22 x 58mm PV 1500VDC	68

Part Number	Ampere Rating
M205-FF.500	500mA
M205-FF.630	630mA
M205-FF.800	800mA
M205-FF001	1A
M205-FF1.25	1.25A
M205-FF01.6	1.6A
M205-FF002	2A
M205-FF02.5	2.5A
M205-FF3.15	3.15A
M205-FF004	4A
M205-FF005	5A
M205-FF06.3	6.3A
M205-FF008	8A
M205-FF010	10A
M205-FF12.5	12.5A
M205-FF016	16A



Dimensions in MM

I.R.: Please contact sales for information.

Voltage: 250VAC

Characteristic: Type aR, Very Fast Acting

Pack Size (bag): 10, 50, 100

Holders: Clips (p112)

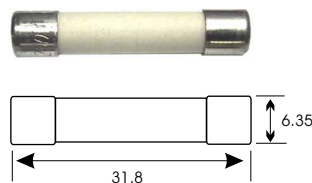
Notes: Additional ratings available from 100mA to 400mA.

Please contact sales for more information.

Approvals: Optional

3AB SEMICONDUCTOR FUSES 250VAC / 125VDC

Part Number	Ampere Rating
GBB-1	1A
GBB-1-1/4	1.25A
GBB-2	2A
GBB-3	3A
GBB-4	4A
GBB-5	5A
GBB-6	6A
GBB-7	7A
GBB-8	8A
GBB-9	9A
GBB-10	10A
GBB-12	12A
GBB-15	15A
GBB-20	20A
GBB-25	25A
GBB-30	30A



Dimensions in MM

I.R.: 10kA at 125VAC / 125VDC (1A to 15A)

200A at 125VAC / 125VDC (20A to 30A)

200A at 250VAC (1A to 30A)

Voltage: 250VAC / 125VDC

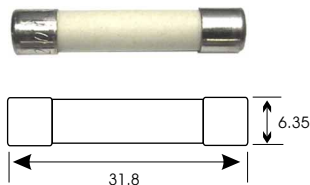
Characteristic: Type aR, Very Fast Acting

Pack Size (bag): 5, 10, 50, 100

Holders: Clips (p112-113)

Approvals:

Part Number	Ampere Rating
3AB-FF.100/1000V	100mA
3AB-FF.125/1000V	125mA
3AB-FF.160/1000V	160mA
3AB-FF.200/1000V	200mA
3AB-FF.250/1000V	250mA
3AB-FF.315/1000V	315mA
3AB-FF.400/1000V	400mA
3AB-FF.500/1000V	500mA
3AB-FF.630/1000V	630mA
3AB-FF.800/1000V	800mA
3AB-FF001/1000V	1A
3AB-FF01.6/1000V	1.6A
3AB-FF002/1000V*	2A



Dimensions in MM

I.R.: 30kA at 1000VAC/VDC (100mA to 2A)

Voltage: 1000VAC / 1000VDC

Characteristic: Type aR, Very Fast Acting

Pack Size (bag): Stock lines 10

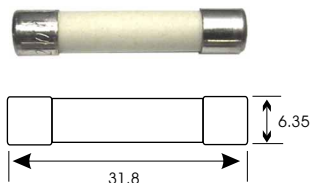
Pack Size (bag): Indent items 100

Holders: Clips (p112-113)

Approvals:

3AB SEMICONDUCTOR FUSES 500V - 250V

Part Number	Ampere Rating	Voltage AC
3AB-FF01.6	1.6A	500V
3AB-FF002	2A	500V
3AB-FF02.5	2.5A	500V
3AB-FF3.15	3.15A	500V
3AB-FF004	4A	500V
3AB-FF005	5A	500V
3AB-FF06.3	6.3A	500V
3AB-FF008	8A	500V
3AB-FF010	10A	500V
3AB-FF12.5	12.5A	500V
3AB-FF016	16A	500V
3AB-FF020	20A	250V
3AB-FF025	25A	250V



Dimensions in MM

I.R.: 1.5kA at 500VAC (1.6A to 16A)

TBC (20A to 25A)

Voltage: 500VAC (1.6A to 16A)

250VAC (20A to 25A)

Characteristic: Type aR, Very Fast Acting

Pack Size (bag): Stock lines 10

Pack Size (bag): Indent items 100

Holders: Clips (p112-113)

Approvals:

10 X 38 SEMICONDUCTOR FUSES 690V / 700VDC



Part Number	Ampere Rating	Total I ² t at 690VAC	I.R. at 690VAC	I.R. at 700VDC
I038-AR001	1A	1.2	200kA	30kA
I038-AR002	2A	2.6	200kA	30kA
I038-AR003	3A	8	200kA	30kA
I038-AR004	4A	10	200kA	30kA
I038-AR006	6A	28	200kA	30kA
I038-AR008	8A	24	200kA	30kA
I038-AR010	10A	38	200kA	30kA
I038-AR012	12A	54	200kA	30kA
I038-AR016	16A	96	200kA	30kA
I038-AR020	20A	150	200kA	30kA
I038-AR025	25A	384	200kA	30kA
I038-AR032	32A	600	200kA	30kA



Voltage: 690VAC / 700VDC **Characteristic:** Type aR, Very fast acting

Pack Size (box): 10

Holders: Clips (p113), Blocks (p133), Carriers (p127-128), Inline (p122).

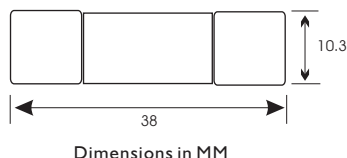
Approvals: IEC/EN 60269, UL248 (2A to 32A), CE **[RoHS]**

Notes: Alternative product range is FWC Series see page 42.

10 X 38 SEMICONDUCTOR FUSES 690V / 440VDC



Part Number	Ampere Rating	Total I ² t at 690VAC	I.R. at 690VAC	I.R. at 440VDC
I038-GR001	1A	1.2	200kA	30kA
I038-GR002	2A	2.6	200kA	30kA
I038-GR003	3A	8	200kA	30kA
I038-GR004	4A	17	200kA	30kA
I038-GR006	6A	48	200kA	30kA
I038-GR008	8A	38	200kA	30kA
I038-GR010	10A	59	200kA	30kA
I038-GR012	12A	84	200kA	30kA
I038-GR016	16A	150	200kA	30kA
I038-GR020	20A	200	200kA	30kA
I038-GR025	25A	512	200kA	30kA
I038-GR032	32A	800	200kA	30kA



Voltage: 690VAC / 440VDC **Characteristic:** Type gR, Very fast acting

Pack Size (box): 1, 10

Holders: Clips (p113), Blocks (p133), Carriers (p127-128), Inline (p122).

Approvals: IEC/EN 60269, UL248 (2A to 32A), CE **[RoHS]**

10 X 38 PHOTOVOLTAIC FUSES 600VDC



Part Number	Ampere Rating	I.R. at 600VDC
PVM-4	4A	50kA
PVM-5	5A	50kA
PVM-6	6A	50kA
PVM-10	10A	50kA
PVM-12	12A	50kA



Voltage: 600VDC

Characteristic: Type gPV, Very fast acting

Holders: Clips (p113), Blocks (p133), Carriers (p127-128), Inline (p122).

PVM Approvals: UL Listed 2579, Guide JFGA, File E335324

CSA Certified C22.2 **[RoHS]**

Notes: Alternative product ranges

PV-xxA 10F Series (1A to 20A) 1000VDC, see page 39.

A8321 & A8322 Series (1A to 30A) 1100VDC - 1000VDC, see page 39.

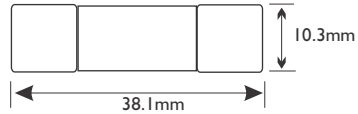
10 X 38 PHOTOVOLTAIC FUSES 1000VDC



Bussmann



Adler Part Number	Bussmann Part Number	Ampere Rating
A831100710	PV-1A10F	1A
A831200710	PV-2A10F	2A
A831300710	PV-3A10F	3A
A831400710	PV-4A10F	4A
A831500710	PV-5A10F	5A
A831600710	PV-6A10F	6A
A831800710	PV-8A10F	8A
A832100710	PV-10A10F	10A
A832120710	PV-12A10F	12A
A832150710	PV-15A10F	15A
A832200710	PV-20A10F	20A
A832250710	-	25A
A832300710	-	30A
A832320710	-	32A



Adler Fuse Specifications

I.R. & Voltage.: 30kA at 1000VDC (1A to 32A)

I.R. & Voltage.: 50kA at 1000VDC (1A to 20A) S.C.

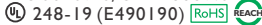
Time Constant (L/R): 1-3ms

Operating Class: gPV (PV) Very Fast Acting

Pack Size (box): 10pcs

Holders: Clips (p113), Blocks (p133),
Carriers (p127-128), Inline (p122).

Approvals: IEC 60269-6/GBT 13539.6



Bussmann Fuse Specifications

I.R.: 50kA at 1000VDC (1A to 20A)

Voltage: 1000VDC (1A to 20A)

Time Constant (L/R): 1-3ms (1A to 20A)

Operating Class: gPV (PV) Very Fast Acting

Pack Size (box): 10pcs

Holders: Clips (p113), Blocks (p133),
Carriers (p127-128), Inline (p122).

Approvals: IEC 60269-6



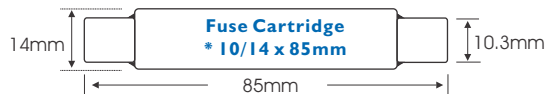
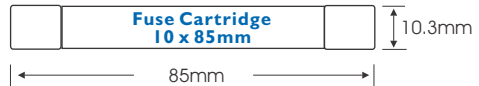
10 X 85 PHOTOVOLTAIC FUSES 1500VDC



Bussmann



Adler Part Number	Bussmann Part Number	Ampere Rating
A851100B00	--	1A
A851200B00	--	2A
A851300B00	PV-3A10F85L	3A
A851400B00	PV-4A10F85L	4A
A851500B00	PV-5A10F85L	5A
A851600B00	PV-6A10F85L	6A
A851800B00	PV-8A10F85L	8A
A852100B00	PV-10A10F85L	10A
A852120B00	PV-12A10F85L	12A
A852150B00	PV-15A10F85L	15A
A852160B00	PV-16A10F85L	16A
A852200B00	PV-20A10F85L	20A
A852250B00	PV-25A10F85L	25A
A852300B00	PV-30A10F85L	30A
A852320B00	PV-32A14LF10F*	32A



Adler Fuse Specifications

I.R.: 30kA at 1500VDC

Voltage: 1500VDC (1A to 32A) Fuse 10.3 x 85mm

Operating Class: gR, gPV (PV) Very Fast Acting

Pack Size (box): 10pcs

Holders: Clips (p113), Carrier (p128).

Notes: Inline fuse also available (A85...B01)

Approvals: UL File E490190, UL 448-19

Bussmann Fuse Specifications

I.R.: 30kA at 1500VDC

Voltage: 1500VDC (1A to 30A) Fuse 10.3 x 85mm

1300VDC (32A)* Fuse 10/14 x 85mm

Operating Class: gR, gPV (PV) Very Fast Acting

Pack Size (box): 10pcs

Holders: Clips (p113), Carrier (p128).

Notes: *Body dimensions 10/14 x 85mm.

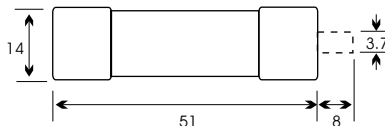
Approvals: IEC 60269, UL 4248-19

14 X 51 SEMICONDUCTOR FUSES 690VAC / 700VDC

EATON Bussmann

W/O Striker Part Number	With Striker Part Number	Ampere Rating
I45I-AR001	-	1A
I45I-AR003	-	3A
I45I-AR005	-	5A
I45I-AR010	I45I-AR010P	10A
I45I-AR012	I45I-AR012P	12A
I45I-AR016	I45I-AR016P	16A
I45I-AR020	I45I-AR020P	20A
I45I-AR025	I45I-AR025P	25A
I45I-AR032	I45I-AR032P	32A
I45I-AR040	I45I-AR040P	40A
I45I-AR050	I45I-AR050P	50A
I45I-AR063*	-	63A

NEW



Dimensions in MM

Voltage & I.R.: 200kA at 690VAC
30kA at 700VDC (10A to 50A)
50kA at 250VDC (63A) * OEZ Brand

Characteristic: Type aR, Very Fast Acting. Contact sales for I²t.

Pack Size (box): 10

Holders: Clips (call), Carriers (p127), Blocks (p133)

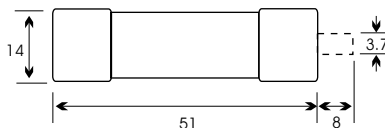
Features: Product features a striker indicator (10A to 50A).

Approvals: IEC/EN 60269, UL248, CE **RoHS**

14 X 51 SEMICONDUCTOR FUSES 690VAC / 440VDC

EATON Bussmann

W/O Striker Part Number	With Striker Part Number	Ampere Rating	Total I ² t at 690VAC
-	I45I-GR002P	2A	TBA
I45I-GR004	I45I-GR004P	4A	17
I45I-GR006	I45I-GR006P	6A	48
I45I-GR008	I45I-GR008P	8A	30
I45I-GR010	I45I-GR010P	10A	47
I45I-GR012	I45I-GR012P	12A	68
I45I-GR016	I45I-GR016P	16A	120
I45I-GR020	I45I-GR020P	20A	170
I45I-GR025	I45I-GR025P	25A	333
I45I-GR032	I45I-GR032P	32A	679
I45I-GR040	I45I-GR040P	40A	1331
I45I-GR050	I45I-GR050P	50A	2200



Dimensions in MM

Voltage & I.R.: 200kA at 690VAC
30kA at 440VDC (Excluding 2A)

Characteristic: Type gR, Very Fast Acting

Pack Size (box): 10

Holders: Clips (call), Carriers (p127), Blocks (p133)

Features: Product features a striker indicator (8A to 50A).

Approvals: IEC/EN 60269, UL248, CE **RoHS**

RELATED PRODUCTS:



Fuse Block
(see p. 133)



Fuse Carrier
(see p. 127)



Strikers: A striker is a pin that pops out with force from the top side of one fuse cap. This striker has a dual function. Firstly it acts as a visual indication that a fuse has blown. Secondly it can also be used in-conjunction with a microswitch to trigger an alert of a problem.

22 X 58 SEMICONDUCTOR FUSES 690VAC / 700VDC

EATON Bussmann

aR fuse links are intended to clearing short-circuits and have been designed and manufactured to have very low I_{2t} values as well as reduced arc voltages that guarantee an optimum protection of semiconductors. They have a very good cycling ability.

W/O Striker	With Striker	Ampere Rating
Part Number	Part Number	
2258-AR020	2258-AR020P	20A
2258-AR025	2258-AR025P	25A
2258-AR032	2258-AR032P	32A
2258-AR040	2258-AR040P	40A
2258-AR050	2258-AR050P	50A
2258-AR063	2258-AR063P	63A
2258-AR080	2258-AR080P	80A
2258-AR100	2258-AR100P	100A
2258-AR125	-	125A NEW

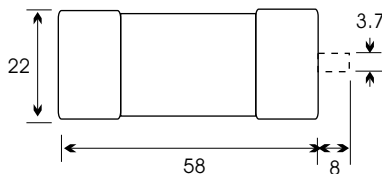
Voltage & I.R.: 200kA at 690VAC
30kA at 700VDC (20A to 100A)
50kA at 250VDC (125A)

Characteristic: Type aR, Very Fast Acting. Contact sales for I²t.

Pack Size (box): 10

Holders: Carriers (p127), Blocks (p133)

Approvals: IEC/EN 60269,  UL248, CE 



Dimensions in MM

22 X 58 SEMICONDUCTOR FUSES 690VAC / 440VDC

EATON Bussmann

gR fuse links are capable to clearing all types of overcurrents, overloads as well as short-circuits, thus the fuse links protect semiconductors as well as cables and all switchgear of installation.

W/O Striker	With Striker	Ampere Rating	Total I ² t at 690VAC
Part Number	Part Number		
2258-GR020	2258-GR020P	20A	154
2258-GR025	2258-GR025P	25A	274
2258-GR032	2258-GR032P	32A	616
2258-GR040	2258-GR040P	40A	760
2258-GR050	2258-GR050P	50A	1 362
2258-GR063	2258-GR063P	63A	2 575
2258-GR080	2258-GR080P	80A	5 448
2258-GR100	2258-GR100P	100A	10 300

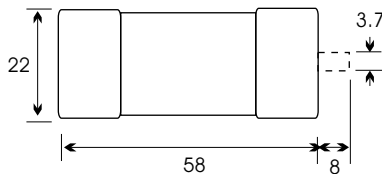
Voltage & I.R.: 200kA at 690VAC
30kA at 440VDC

Characteristic: Type aR, Very Fast Acting

Pack Size (box): 10

Holders: Carriers (p127), Blocks (p133)

Approvals: IEC/EN 60269,  UL248, CE 



Dimensions in MM

RELATED PRODUCTS:



Fuse Block
(see p.133)



Fuse Carrier
(see p.127)



Strikers: A striker is a pin that pops out with force from the top side of one fuse cap. This striker has a dual function. Firstly it acts as a visual indication that a fuse has blown. Secondly it can also be used in-conjunction with a microswitch to trigger an alert of a problem.

Part Number	Ampere Rating	AC Voltage	DC Voltage	Total I ² t at Rated VAC
FWC-1A10F	1A	700V	700V	1.2
FWC-2A10F	2A	700V	700V	3.0
FWC-3A10F	3A	700V	700V	1.1
FWC-4A10F	4A	700V	700V	32
FWC-6A10F	6A	600V	700V	30
FWC-8A10F	8A	600V	700V	50
FWC-10A10F	10A	600V	700V	70
FWC-12A10F	12A	600V	700V	120
FWC-16A10F	16A	600V	700V	150
FWC-20A10F	20A	600V	700V	260
FWC-25A10F	25A	600V	700V	390
FWC-32A10F	32A	600V	—	600

FWP-1A14F	1A	700V	700V	0.41
FWP-2A14F	2A	700V	700V	0.11
FWP-3A14F	3A	700V	700V	0.26
FWP-4A14F	4A	700V	700V	0.23
FWP-5A14F	5A	700V	700V	1.1
FWP-10A14F *	10A	700V	700V	38.5
FWP-15A14F *	15A	700V	700V	70
FWP-20A14F *	20A	700V	700V	230
FWP-25A14F *	25A	700V	700V	375
FWP-30A14F *	30A	700V	700V	485
FWP-32A14F *	32A	700V	700V	600
FWP-40A14F *	40A	700V	700V	750
FWP-50A14F *	50A	700V	700V	1 800

FWP-20A22F *	20A	700V	500V	260
FWP-25A22F *	25A	700V	500V	410
FWP-32A22F *	32A	700V	500V	605
FWP-40A22F *	40A	700V	500V	750
FWP-50A22F *	50A	700V	500V	1600
FWP-63A22F *	63A	700V	500V	3080
FWP-80A22F *	80A	700V	500V	6600
FWP-100A22F*	100A	700V (UL) 600V (IEC)	500V	12500

Voltage: refer to I.R. table for details.

Pack Size: 10pcs

Characteristic: Type aR, Very Fast Acting
Holders: Clips, Blocks, Carriers, Inline & Panel Mount, see fuse holder section or contact sales.

Features: * Striker indicators also available.
 To order this version add "i" the part number suffix.

Note: Striker version is 600Vdc only.

Approvals Available: IEC   

Series: **I.R.:**

FWC...10F	200kA RMS Sym. @ 600VAC (6-32A)
FWC...10F	200kA at 700VAC (1A to 4A)
FWC...10F	50kA at 600VDC (6A to 25A)
FWC...10F	50kA at 700VDC (1A to 4A)

FWP...14F	200kA at 690VAC (IEC)
FWP...14F	200kA at 700VAC (UL)
FWP...14F	50kA at 800VDC (5A to 50A)

FWP...22F	200kA at 690VAC (IEC)
FWP...22F	200kA at 700VAC (UL)
FWP...22F	50kA at 500VDC

FWC...10F



FWP...14F



 *Optional Striker Indicator

FWP...22F



 *Optional Striker Indicator

Dimensions in mm

RELATED PRODUCTS:



**PCB Mount
Fuse Clips**
10mm
(see p.113)



**Panel Mount
Fuse Holders**
10mm
(see p.120)



**Inline
Fuse Holders**
10mm
(see p.122)



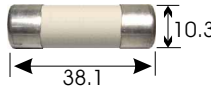
Fuse Carriers
10, 14 & 22mm
(see p.127-128)



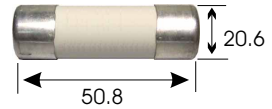
Fuse Blocks
10, 14 & 22mm
(see p.133)

Part Number	Ampere Rating	Total I ² t at 150V
FWA-5A10F	5A	8
FWA-10A10F	10A	16
FWA-15A10F	15A	55
FWA-20A10F	20A	130
FWA-25A10F	25A	220
FWA-30A10F	30A	400
FWA-35A21F	35A	800
FWA-40A21F	40A	1 000
FWA-45A21F	45A	1 300
FWA-50A21F	50A	1 600
FWA-60A21F	60A	2 400
FWA-70B	70A	4 000
FWA-80B	80A	6 000
FWA-100B	100A	12 000
FWA-125B	125A	18 000
FWA-150B	150A	26 000
FWA-200B	200A	45 000
FWA-250B	250A	70 000
FWA-300B	300A	100 000
FWA-350B	350A	140 000
FWA-400B	400A	180 000
FWA-500A	500A	120 000
FWA-600A	600A	140 000
FWA-700A	700A	220 000
FWA-800A	800A	280 000
FWA-1000A	1000A	510 000

FWA..10F (5A to 30A)



FWA..21F (35A to 60A)



FWA..B (70A to 400A)
FWA..A (500 to 1000A)



Tag Styles	Suffix
	FWA..B
	FWA..A

I.R.:

100kA at 150VAC, 10kA at 150VDC (5A to 30A)
 100kA at 150VAC, 50kA at 150VDC (35A to 60A)
 100kA at 150VAC, 20kA at 150VDC (70A to 400A)
 200kA at 150VAC, 20kA at 150VDC (450A to 800A)
 200kA at 150VAC, 20kA at 150VDC (500A to 800A)
 200kA at 150VAC, 100kA at 80VDC (1000A)

Voltage: 150VAC/150VDC

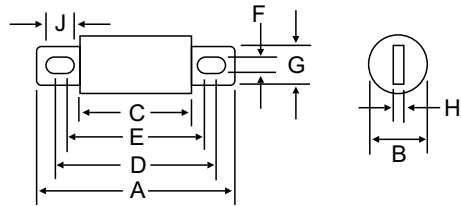
Holders: Blocks (p135-136).

Characteristic: Type aR, Very Fast Acting

Notes: Please contact sales for information

on ratings above 1000A. **Pack Size:** TBC

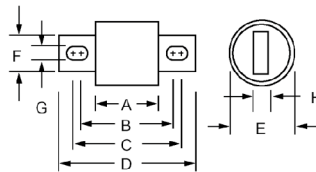
Approvals:



Ampere Rating	Dimensions in MM									
	A	B	C	D	E	F	G	H	J	
70A to 400A	67.5	25.4	29.4	55.6	49.2	7.9	19.1	3.2	11.1	
500A to 1000A	88.9	38.1	31.8	61.9	-	10.3	25.4	6.4	10.3	

TELECOM POWER FUSES 170VDC

Littelfuse Part Number	Bussmann Part Number	Ampere Rating
L17T070	TPL-BA	70A
-	TPL-BB	80A
L17T090	TPL-BC	90A
L17T100	TPL-BD	100A
L17T125	TPL-BE	125A
L17T150	TPL-BF	150A
L17T175	TPL-BG	175A
L17T200	TPL-BH	200A
L17T225	TPL-BK	225A
L17T250	TPL-BL	250A
L17T300	TPL-CN	300A
L17T350	TPL-CO	350A
L17T400	TPL-CR	400A
L17T450	TPL-CU	450A
L17T500	TPL-CV	500A
L17T600	TPL-CZ	600A
L17T800	TPL-CZH	800A



Ampere Rating	Dimensions in MM							
	A	B	C	D	E	F	G	H
70A to 250A	29.4	47.6	55.6	67.5	25.4	22.2	7.9	4.8
300A to 800A	31.8	49.2	65.1	88.9	38.1	25.4	10.3	6.35

I.R.: 100kA at 170VDC **Voltage:** 170VDC

Holders: Blocks (p135-136), Disconnect Switches contact sales.

Approvals:

Part Number	Ampere Rating	Total I ² t at 250V
FWX-1A14F	1A	0.4
FWX-2A14F	2A	0.1
FWX-3A14F	3A	0.26
FWX-4A14F	4A	0.23
FWX-5A14F	5A	13
FWX-10A14F	10A	24
FWX-15A14F	15A	83
FWX-20A14F	20A	200
FWX-25A14F	25A	300
FWX-30A14F	30A	500
FWX-35A	35A	230
FWX-40A	40A	310
FWX-45A	45A	390
FWX-50A	50A	520
FWX-60A	60A	740
FWX-70A	70A	1 400
FWX-80A	80A	1 850
FWX-90A	90A	2 450
FWX-100A	100A	3 150
FWX-125A	125A	4 850
FWX-150A	150A	6 950
FWX-175A	175A	9 300
FWX-200A	200A	12 000
FWX-225A	225A	14 700
FWX-250A	250A	18 100
FWX-275A	275A	21 600
FWX-300A	300A	27 300
FWX-350A	350A	48 600
FWX-400A	400A	66 100
FWX-450A	450A	101 000
FWX-500A	500A	128 000
FWX-600A	600A	188 000
FWX-700A	700A	190 000
FWX-800A	800A	230 000
FWX-1000AH	1000A	360 000
FWX-1200AH	1200A	750 000



Diagram 1
(1A - 30A)

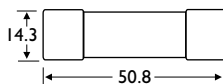


Diagram 2
(35A - 800A)

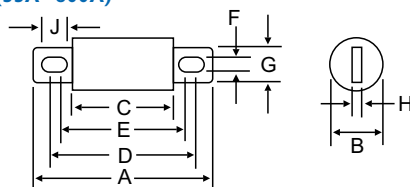
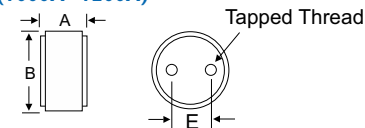


Diagram 3
(1000A - 1200A)



I.R.: 200kA at 250VAC (All ratings)
50kA at 250VDC (1A to 800A)
Voltage: 250VAC / 250VDC
Characteristic: Type aR, Very Fast Acting
Pack Size: Varies
Holders: As below
Approvals (35A to 800A):

RELATED PRODUCTS:



Cartridge Fuse Carrier & Block
(see p.127 & 133)



Bolt Down Tag Fuse Blocks
(see p.135-136)

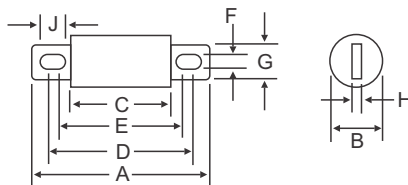
Dimensions in MM

Ampere Rating	Diagram	A	B	C	D	E	F	G	H	J	Tapped Thread Depth
1 to 30A	1	50.8	14.3	-	-	-	-	-	-	-	-
35A to 60A	2	81.0	20.6	40.4	65.8	57.2	8.6	16.0	3.2	13.2	-
70A to 200A	2	79.5	31.0	40.4	61.9	55.6	8.6	25.4	4.8	11.9	-
225A to 600A	2	97.5	38.1	40.4	74.7	57.2	10.4	25.4	6.4	19.1	-
700A to 800A	2	97.5	50.8	40.4	77.0	58.0	10.4	38.1	6.4	19.8	-
1000A to 1200A	3	65.8	76.2	-	-	38.1	-	-	-	-	3/8"-24 x 1/2"

Part Number	Ampere Rating	Total I ² t at 500V
FWH-35B	35A	150
FWH-40B	40A	320
FWH-45B	45A	450
FWH-50B	50A	670
FWH-60B	60A	900
FWH-70B	70A	900
FWH-80B	80A	1 400
FWH-90B	90A	1 600
FWH-100B	100A	2 000
FWH-125B	125A	3 500
FWH-150B	150A	4 600
FWH-175B	175A	6 200
FWH-200B	200A	8 500
FWH-225A	225A	23 300
FWH-250A	250A	32 200
FWH-275A	275A	40 300
FWH-300A	300A	49 800
FWH-325A	325A	63 800
FWH-350A	350A	72 900
FWH-400A	400A	96 700
FWH-450A	450A	127 000
FWH-500A	500A	149 000
FWH-600A	600A	206 000
FWH-700A	700A	298 000
FWH-800A	800A	409 000
FWH-900A	900A	363 500
FWH-1000B	1000A	450 000
FWH-1200B	1200A	600 000
FWH-1400A	1400A	1 000 000
FWH-1600A	1600A	1 400 000



Diagram 1
(35A - 1200A)



I.R.: 200kA at 500VAC (all ratings)
50kA at 500VDC (35A to 800A)

Voltage: 500VAC (all ratings)
500VDC (35A to 800A)*

Characteristic: Type aR, Very Fast Acting

Pack Size: Varies

Holders (35A to 1200A): Blocks (p135-136)

Notes: For information on ferrule cartridge fuses (ratings 1A - 30A) please contact sales.

Approvals: CE (35A to 1600A)

UL (35A to 600A,
1000A to 1200A)

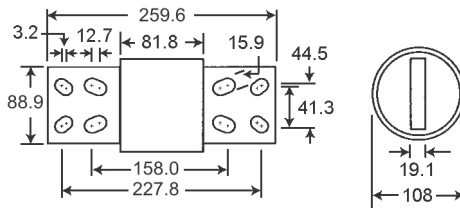
RELATED PRODUCTS:

Modular Fuse Blocks

(see p.135-136)



Diagram 2
(1400A - 1600A)



Dimensions in MM

Ampere Rating	Diagram	A	B	C	D	E	F	G	H	J
35A to 60A	1	81.0	20.7	40.5	64.5	55.7	8.7	18.3	3.2	13.2
70A to 100A	1	92.1	24.1	44.1	72.5	71.3	8.9	19.1	3.2	9.5
125A to 200A	1	92.1	29.4	46.6	73.5	70.3	8.7	25.4	4.8	10.3
225A to 400A	1	110.2	38.1	53.1	87.4	69.9	10.4	25.4	6.4	19.1
450A to 600A	1	110.2	50.8	53.1	89.7	70.6	10.4	38.1	6.4	19.8
700A to 800A	1	161.0	63.5	53.1	126.2	87.4	13.5	50.8	9.7	33.0
900A to 1200A	1	177.0	76.2	81.8	138.8	113.7	15.9	60.3	11.1	28.4
1400A to 1600A	2	See dimensions in 'Diagram 2' schematic box								

Part Number	Ampere Rating	Total I ² t at 700V
FWP-5B	5A	10
FWP-10B	10A	20
FWP-15B	15A	75
FWP-20B	20A	180
FWP-25B	25A	340
FWP-30B	30A	450
FWP-35B	35A	160
FWP-40B	40A	320
FWP-50B	50A	600
FWP-60B	60A	950
FWP-70B	70A	2 000
FWP-80B	80A	2 400
FWP-90B	90A	2 700
FWP-100B	100A	3 500
FWP-125A	125A	7 300
FWP-150A	150A	11 700
FWP-175A	175A	16 700
FWP-200A	200A	22 000
FWP-225A	225A	31 300
FWP-250A	250A	42 500
FWP-300A	300A	71 200
FWP-350A	350A	95 600
FWP-400A	400A	125 000
FWP-450A	450A	137 000
FWP-500A	500A	170 000
FWP-600A	600A	250 000
FWP-700A	700A	300 000
FWP-800A	800A	450 000
FWP-900A	900A	530 000
FWP-1000A	1000A	600 000
FWP-1200A	1200A	1 100 000

Tag Styles Suffix



FWP.B

FWP.A



I.R.: 200kA at 700VAC

50kA at 700VDC (Type A)

50kA at 500VDC (Type B)

Voltage: 700VAC / 700VDC

Characteristic: Type aR, Very Fast Acting

Pack Size: Varies

Holders (5A to 800A): Blocks, (p135-136)

Approvals: CE (5A to 1200A) (5A to 800A)



Notes: For information on FWP Series

ferrule cartridge fuses please see p42.

FWP-xA14F (1A-50A) 14 x 51 mm.

FWP-xA22F (2A-100A) 22 x 58 mm.



Diagram 1
(5A - 800A)

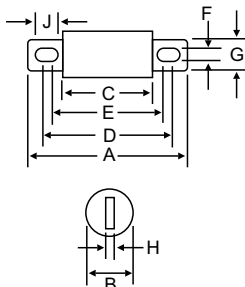


Diagram 2
(900A - 1000A)

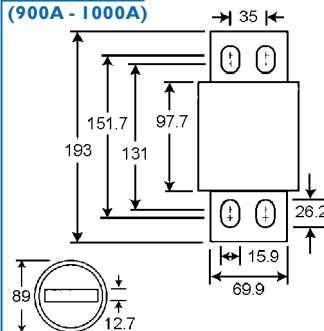
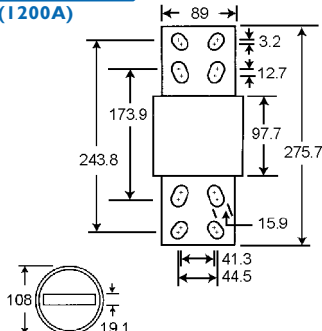


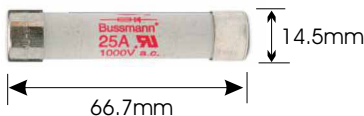
Diagram 3
(1200A)



Dimensions in MM

Ampere Rating	Diagram	A	B	C	D	E	F	G	H	J
5A to 30A	1	73.0	14.3	47.2	63.0	63.0	6.4	10.3	1.6	6.4
35A to 60A	1	111.2	20.7	69.9	94.3	84.2	8.7	18.4	3.2	13.8
70A to 100A	1	112.0	24.1	65.9	92.1	90.6	8.7	19.1	3.2	9.5
125A to 200A	1	129.4	38.1	72.2	106.5	89.0	10.4	25.4	6.4	19.1
225A to 400A	1	129.4	50.8	72.2	108.8	89.7	10.4	38.1	6.4	19.8
450A to 600A	1	180.2	63.6	72.2	145.4	106.5	13.5	50.8	9.7	33.0
700A to 800A	1	168.5	50.8	72.3	141.4	128.7	15.9	38.1	6.4	22.2
900A to 1000A	2	See dimensions in 'Diagram 2' schematic box								
1200A	3	See dimensions in 'Diagram 3' schematic box								

Part Number	Ampere Rating	Total I ² t at 1000V
FWJ-20A I4F	20A	220
FWJ-25A I4F	25A	350
FWJ-30A I4F	30A	450
FWJ-35A	35A	2 000
FWJ-40A	40A	2 500
FWJ-50A	50A	3 500
FWJ-60A	60A	5 000
FWJ-70A	70A	6 900
FWJ-80A	80A	9 700
FWJ-90A	90A	12 000
FWJ-100A	100A	17 500
FWJ-125A	125A	35 000
FWJ-150A	150A	45 000
FWJ-175A	175A	65 000
FWJ-200A	200A	80 000
FWJ-250A	250A	112 000
FWJ-300A	300A	164 000
FWJ-350A	350A	231 000
FWJ-400A	400A	330 000
FWJ-500A	500A	329 000
FWJ-600A	600A	520 000
FWJ-800A	800A	500 000
FWJ-1000A	1000A	1 100 000
FWJ-1200A	1200A	2 100 000
FWJ-1400A	1400A	2 700 000
FWJ-1600A	1600A	4 000 000
FWJ-1800A	1800A	5 300 000
FWJ-2000A	2000A	7 600 000



Ferrule Cartridge Type
FWJ..I4F (20A to 30A)



Bolted Tag Type
FWJ.. (35A to 2000A)

I.R.: 25kA at 1000VAC (20A to 30A)
20kA at 800VDC (20A to 30A)
25kA at 1000VAC (35A to 200A)
50kA at 800VDC (35A to 200A)
100kA at 1000VAC (250A to 2000A)
50kA at 800VDC (450A to 600A)

Voltage: 1000VAC / 800VDC

Characteristic: Type aR, Very Fast Acting

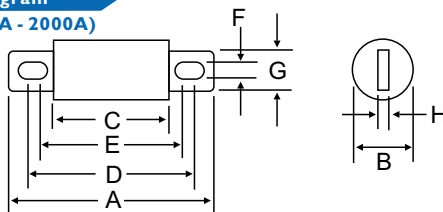
Pack Size: Varies

Holders (35A to 1200A): Blocks (p135-136)

Approvals: CE (20A to 600A)

Diagram

(35A - 2000A)



Dimensions in MM

Ampere Rating	A	B	C	D	E	F	G	H	J
35A to 60A	127.0	23.9	79.0	107.6	106.2	8.9	19.1	3.2	9.7
70A to 100A	125.3	28.6	78.4	108.4	105.6	8.9	25.4	4.8	10.3
125A to 200A	144.4	38.8	82.8	122.0	103.0	11.3	25.4	6.4	20.8
250A to 400A	146.5	50.8	88.9	122.2	105.4	11.0	38.1	6.4	19.4
500A to 600A	182.9	63.5	88.0	152.0	119.5	14.3	50.8	9.5	30.5
800A to 2000A	173.0	88.9	84.1	139.0	126.0	15.9	69.9	12.7	22.4

Semiconductor Fuse Blocks.

- Modular design allows for maximum flexibility.
- 1/4", 3/8" and 1/2" Stud size options.
- Up to 1200A. 1500VAC / 1500VDC.
- Optional clear covered versions.
- Slide lock multi pole ability.



For further information please see our fuse block page 135.

JAPANESE SEMICONDUCTOR FUSES 250V



Hinode Part Number	Kyosan Code	Fuji Code	Ampere Rating
250GG-75	25SH75	CR2L-75	75A
250GG-100	25SH100	CR2L-100	100A
250GG-110	25SH110	-	110A
250GG-125	25SH125	CR2L-125	125A
250GG-140	25SH140	CR2L-140	140A
250GG-150	25SH150	CR2L-150	150A
250GG-160	25SH160	-	160A
250GG-180	25SH180	-	180A
250GG-200	25SH200	CR2L-200	200A

I.R.: 100kA at 250VAC

Voltage: 250VAC

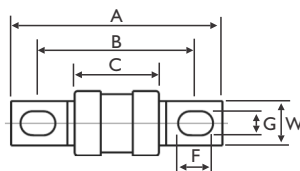
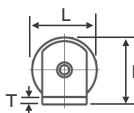
Characteristic: Type aR, Very Fast Acting

Pack Size: Varies

Holders: Blocks (p135-136)

Notes: Kyosan brand is manufactured by Hinode.

Options: Trigger indicator fitted version contact sales.



Dimensions in MM

Ampere Rating	A	B	C	E	F	G	L	T	W
75A to 150A	80	58	31	27	11	9	27	3	20
160A to 200A	87	60	31	31	16	11	32	3	25

BRITISH SEMICONDUCTOR FUSE ACCESSORIES



Trigger Indicators - Replacements

Part Number	RMS Voltage	Peak Voltage	DC Voltage	Overall Length	Cap Diameter
Ti250	250V	TBC	TBC	37.6mm	6.35mm
Ti500	500V	700V	130V	47.5mm	6.35mm
Ti600	600V	TBC	TBC	55.7mm	6.35mm
Ti700	700V	1000V	350V	61.8mm	6.35mm



Trigger Indicator Kits - Complete Assembly

Part Number	Kit Includes	Suit Fuse Series
EC-250	Ti-250 & 2 x 18mm Clips	LET (421-FF)
MC-250	Ti-250 & 2 x 38mm Clips	LMT & LMMT (571-FF & 572-FF)
EC-600	Ti-600 & 2 x 18mm Clips	FE & ET (621-FF & 631-FF)
EC-600	Ti600- & 2 x 18mm Clips	FEE & EET (701-FF & 722-FF)
MC-700	Ti700- & 2 x 38mm Clips	MT & MMT (861-FF & 862-FF)
MC-600	Ti600- & 2 x 38mm Clips	FM & FMM (851-FF & 852-FF)

Notes: Each kit includes 2 x clips and 1 x trigger indicator.



Microswitch - Suits Bussmann Trigger Indicators With 6.35mm Diameter.

Part Number
MAI

Current Rating:

AC 50/60Hz resistive load @ 250 VRMS: 4A

AC 50/60Hz resistive load @ 127 VRMS: 6A

DC, resistive load @ 110 VDC: 0.7A

DC, Resistive load @ 30 VDC: 2A

Maximum Working Voltage:

Contact-to-contact (RMS): 1000V

Contact-to-contact (RMS): 1500V

Maximum DC Voltage: 110VDC

Previously: BSMICRO



**Microswitch
Circuit Diagram:**



Assembly Steps:

STEP 1



2 x Clips fitted to the fuse body.

STEP 2



Trigger indicator fitted to the clips.

STEP 3



Microswitch fitted onto the trigger indicator.

BRITISH SEMICONDUCTOR FUSES 240VAC / 150VDC

EATON Bussmann

Part Number	Ampere Rating	Total I ² t at 240V
6LCT	6A	9
10LCT	10A	22
12LCT	12A	32
16LCT	16A	100
20LCT	20A	160

I.R.: 200kA at 240VAC **Voltage:** 240VAC / 150VDC

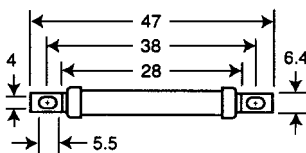
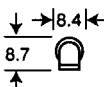
Characteristic: Type aR, Very Fast Acting

Pack Size: 1

Notes: Previously 38I-FF Series.

Cartridge version 25mm x 8.4mm.

Approvals: BS88-4 IEC  



Dimensions in MM

BRITISH SEMICONDUCTOR FUSES 240VAC / 150VDC

EATON Bussmann

Part Number	Ampere Rating	Total I ² t at 240V
10LET	10A	23
12LET	12A	31
16LET	16A	59
20LET	20A	100
25LET	25A	250
32LET	32A	450
35LET	35A	600
50LET	50A	1 400
63LET	63A	2 200
80LET	80A	3 800
100LET	100A	7 500
125LET	125A	7 500
160LET	160A	16 000
180LETA	180A	29 000

I.R.: 200kA at 240VAC **Voltage:** 240VAC / 150VDC

Characteristic: Type aR, Very Fast Acting

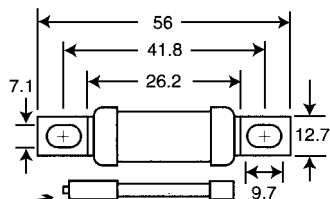
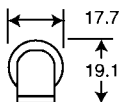
Pack Size: 1

Holders: Blocks (p134-136)

Indicator & Microswitch Options: (p48)

Notes: Previously 42I-FF Series.

Approvals: BS88-4 IEC  



Dimensions in MM

Optional Indicator

RELATED PRODUCTS



Enclosed Fuse Block
(page 134)



Modular Fuse Blocks
(page 135-136)

BRITISH SEMICONDUCTOR FUSES 240VAC / 150VDC

EATON Bussmann

Part Number	Ampere Rating	Total I ² t at 240V
160LMT	160A	16 000
200LMT	200A	20 000
250LMT	250A	40 000
315LMT	315A	75 000
355LMT	355A	100 000
400LMT	400A	160 000
450LMT	450A	220 000

I.R.: 200kA at 240VAC **Voltage:** 240VAC / 150VDC

Characteristic: Type aR, Very Fast Acting

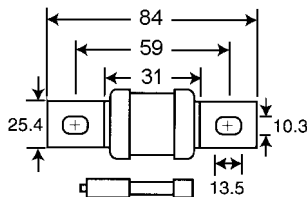
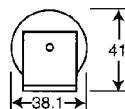
Pack Size: 1

Holders: Blocks (p135-136)

Indicator & Microswitch Options: (p48)

Notes: Previously 57I-FF Series

Approvals: BS88-4 IEC  



Dimensions in MM

Optional Indicator

Part Number	Ampere Rating	Total I ² t at 240V
572-FF350	350A	TBA
400LMMT	400A	80 000
500LMMT	500A	170 000
630LMMT	630A	300 000
710LMMT	710A	460 000
800LMMT	800A	600 000
900LMMT	900A	800 000

I.R.: 200kA at 240VAC **Voltage:** 240VAC / 150VDC

Characteristic: Type aR, Very Fast Acting

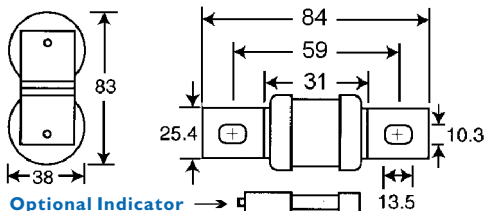
Pack Size: 1

Holders: Blocks (p135)

Trigger Indicator & Microswitches: (p48)

Notes: Previously known as 572-FF Series.

Approvals: BS88-4 IEC  



Dimensions in MM

RELATED PRODUCTS



Indicator Kits
(page 48)



Modular Fuse Blocks
(page 135)

690VAC / 500VDC

ET

Part Number	Ampere Rating	Total I ² t at 660V
15ET	15A	65
20ET	20A	170
25ET	25A	250
32ET	32A	350
35ET	35A	500
40ET	40A	900
45ET	45A	1 100
56ET	56A	1 500
63ET	63A	2 000
80ET	80A	4 000

I.R.: 200kA at 690VAC **Voltage:** 690VAC / 500VDC

Characteristic: Type aR, Very Fast Acting

Pack Size: 1, 10

Holders: Blocks (p134 - p136)

Trigger Indicator & Microswitches: (p48)

Notes: Previously known as 631-FF Series.

Approvals: BS88-4 IEC  

RELATED PRODUCTS



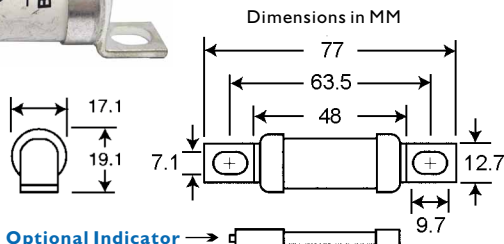
Indicator Kits
(page 48)



Enclosed Fuse Block
(page 134)



Modular Fuse Blocks
(page 135-136)



690VAC / 500VDC

FE

Part Number	Ampere Rating	Total I ² t at 660V
35FE	35A	200
40FE	40A	300
45FE	45A	450
50FE	50A	600
63FE	63A	750
71FE	71A	950
80FE	80A	1 500
90FE	90A	2 100
100FE	100A	2800

I.R.: 200kA at 690VAC **Voltage:** 690VAC / 500VDC

Characteristic: Type aR, Very Fast Acting

Pack Size: 1, 10

Holders: Blocks (p134 - p136)

Trigger Indicator & Microswitches: (p48)

Notes: Previously known as 621-FF Series.

Approvals: BS88-4 IEC  

Part Number	Ampere Rating	Total I ² t at 660V
64I-FF005*	5A	15
6CT	6A	12
10CT	10A	48
12CT	12A	65
64I-FF015*	15A	100
16CT	16A	110
20CT	20A	220

I.R.: 200kA at 690VAC

Voltage: 690VAC / 500VDC

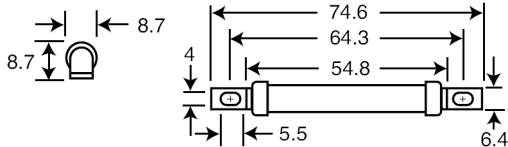
Characteristic: Type aR, Very Fast Acting

Pack Size: 1

Notes: *Please contact sales to clarify specification.

Previously known as 64I-FF Series.

Approvals: BS88-4 IEC  



Dimensions in MM

690VAC / 500VDC

EET

Part Number	Ampere Rating	Total I ² t at 660V
75EET	75A	3 280
90EET	90A	4 500
110EET	110A	6 500
140EET	140A	12 000
160EET	160A	17 000

I.R.: 200kA at 690VAC

Voltage: 690VAC / 500VDC

Characteristic: Type aR, Very Fast Acting

Pack Size: 1

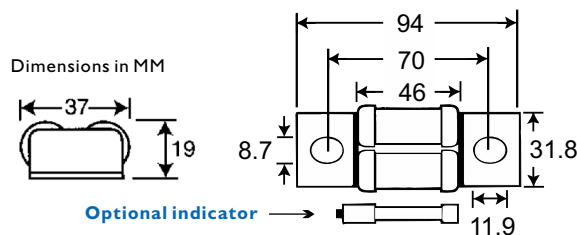
Trigger Indicator: (p48)

Microswitches: (p48)

Holders: Blocks (p135 - p136)

Notes: Previously known as 722-FF Series.

Approvals: BS88-4 IEC  



Dimensions in MM

690VAC / 500VDC

FEE

Part Number	Ampere Rating	Total I ² t at 660V
100FEE	100A	2 400
120FEE	120A	3 100
140FEE	140A	3 800
160FEE	160A	5 700
180FEE	180A	8 400
200FEE	200A	11 400

I.R.: 200kA at 690VAC

Voltage: 690VAC / 500VDC

Characteristic: Type aR, Very Fast Acting

Pack Size: 1

Trigger Indicator: (p48)

Microswitches: (p48)

Holders: Blocks (p135 - p136)

Notes: Previously known as 70I-FF Series.

Approvals: BS88-4 IEC  



Features

- Minimal energy let-through (I₂t)
- Excellent DC performance
- Good surge withstand profile

RELATED PRODUCTS



Indicator Kits
(page 48)



Fuse Blocks
(page 135)



Fuse Blocks
(page 136)

690VAC / 500VDC

FM

Part Number	Amp Rating	Total I ² t at 660V	Dim. B
180FM	180A	13 500	50
200FM	200A	18 500	50
225FM	225A	26 500	50
250FM	250A	37 500	50
280FM	280A	55 000	50
315FM	315A	77 000	50
350FM	350A	105 000	50

I.R.: 200kA at 690VAC **Voltage:** 690VAC/500VDC

Characteristic: Type aR, Very Fast Acting

Pack Size: 1, 3

Holders: Blocks (p135-136)

Indicator & Microswitches: (p48)

Notes: Previously known as 851-FF Series.

Approvals: BS88-4 IEC  CE

690VAC / 500VDC

MT

Part Number	Amp Rating	Total I ² t at 660V	Dim. B
160MT	160A	25 000	57
180MT	180A	38 000	57
200MT	200A	58 000	57
250MT	250A	110 000	57
280MT	280A	150 000	57
315MT	315A	180 000	57
355MT	355A	200 000	57

I.R.: 200kA at 690VAC

Voltage: 690VAC / 500VDC (IEC:350VDC)

Characteristic: Type aR, Very Fast Acting

Pack Size: 1, 3

Holders: Blocks (p135-136)

Indicator & Microswitches: (p48)

Notes: *Please contact sales to clarify specification.

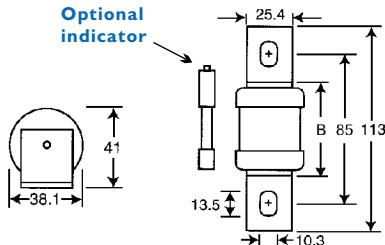
Notes: Previously known as 861-FF Series.

Approvals: BS88-4 IEC  CE



Diagram 1.
(FM / MT)

Optional indicator



Dimensions in MM

690VAC / 500VDC

FMM

Part Number	Amp Rating	Total I ² t at 660V	Dim. B
400FMM	400A	72 500	50
450FMM	450A	105 000	50
500FMM	500A	150 000	50
550FMM	550A	215 000	50
630FMM	630A	310 000	50
700FMM	700A	420 000	50

I.R.: 200kA at 690VAC **Voltage:** 690VAC / 500VDC

Characteristic: Type aR, Very Fast Acting

Pack Size: 1, 3

Holders: Blocks (p135)

Indicator & Microswitches: (p48)

Notes: Previously known as 852-FF Series.

Approvals: BS88-4 IEC  CE

690VAC / 500VDC

MMT

Part Number	Amp Rating	Total I ² t at 660V	Dim. B
180MMT	180A	18 000	57
200MMT	200A	23 000	57
225MMT	225A	40 000	57
280MMT	280A	70 000	57
315MMT	315A	91 000	57
355MMT	355A	140 000	57
400MMT	400A	220 000	57
450MMT	450A	320 000	57
500MMT	500A	450 000	57
560MMT	560A	640 000	57
630MMT	630A	720 000	57
710MMT	710A	850 000	57

I.R.: 200kA at 690VAC

Voltage: 690VAC / 500VDC (IEC:350VDC)

Characteristic: Type aR, Very Fast Acting

Pack Size: 1, 3

Holders: Blocks (p135)

Indicator & Microswitches: (p48)

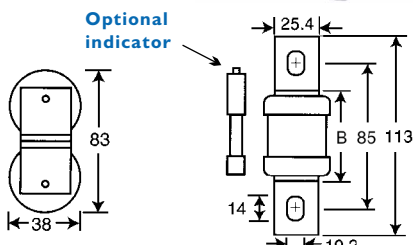
Notes: Previously known as 862-FF Series.

Approvals: BS88-4 IEC  CE



Diagram 2.
(FMM / MMT)

Optional indicator



Dimensions in MM

With Out Indicator	Type T Flag Indicator	Ampere Rating	Body Size	Total I ² t at Rated Voltage
Part Number	Part Number			
I70MI308	I70MI408	10A	000	25.5
I70MI309	I70MI409	16A	000	48
I70MI310	I70MI410	20A	000	78
I70MI311	I70MI411	25A	000	130
I70MI312	I70MI412	32A	000	270
I70MI313	I70MI413	40A	000	460
I70MI314	I70MI414	50A	000	770
I70MI315	I70MI415	63A	000	1 450
I70MI316	I70MI416	80A	000	2 550
I70MI317	I70MI417	100A	000	4 650
I70MI318	I70MI418	125A	000	8 500
I70MI319	I70MI419	160A	000	16 000
I70MI320	I70MI420	200A	000	28 000
I70MI321	I70MI421	250A	000	51 500
I70MI322	I70MI422	315A	000	80 500

I.R.: 200kA at 690VAC, 50kA at 700VDC

Voltage: 700VAC (UL) / 690VAC (IEC), 700VDC (UL)

Characteristic: Type gR (10A to 63A), Very Fast Acting

Characteristic: Type aR (80A to 315A), Very Fast Acting

Pack Size (box): 1, 3

Microswitch (Type T): I70H.. (p148)

Approvals: DIN 43653   

RELATED

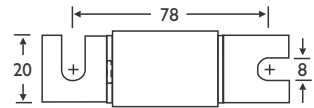
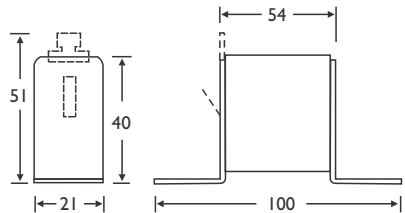
PRODUCTS: **Modular Fuse Blocks**
(see p135.)



Fixed Fuse Blocks
(see p136.)



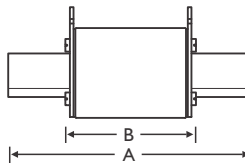
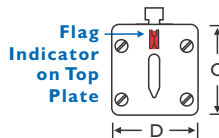
Type T Microswitch Bracket with Flag Indicator



Dimensions in MM

NH BLADE SEMICONDUCTOR FUSES 690V

Part Number	Ampere Rating	Body Size	Total I ² t at 690V
00C-GS016	16A	000	210
00C-GS020	20A	000	440
00C-GS025	25A	000	760
00C-GS035	35A	000	1 680
00C-GS040	40A	000	3 100
00C-GS050	50A	000	4 500
00C-GS063	63A	000	9 250
00C-GS080	80A	000	18 300
00C-GS100	100A	000	34 200
00C-GS125	125A	000	64 500
00-GS160	160A	00	77 000
1-GS125	125A	1	-
1-GS160	160A	1	61 500
1-GS200	200A	1	101 000
1-GS250	250A	1	202 000
1-GS315	315A	1	312 000
2-GS350	350A	2	425 000
2-GS400	400A	2	585 000
2-GS450	450A	2	765 000
2-GS500	500A	2	970 000
3-GS355	355A	3	-
3-GS400	400A	3	-
3-GS450	450A	3	-
3-GS500	500A	3	-
3-GS560	560A	3	1 800 000
3-GS630	630A	3	2 300 000



Body Size	Dimensions in MM*			
	A	B	C	D
000	78	53	52	21
00	78	53	52	30
1	135	72	62	46
2	150	72	71	54
3	150	72	84	64

I.R.: 100kA at 690VAC **Voltage:** 690VAC

Characteristic: Type gS, Very Fast Acting

Pack Size (box): 3

Holders: Bases (p138-139), Disconnects (p142-143)

Microswitch (Type T): I70H.. (p148). **Extractor:** (p150)

Approvals: DIN 43620 IEC 60269-1, 60269-4  

Notes: *ETI fuse dimensions.

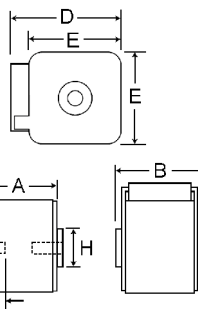


gS fuses protect semiconductors, cables & all switchgear of installation. They have lower power dissipation than gR fuses.

Part Number	Ampere Rating	Body Size	Total I ² t at 660V	Voltage IEC / UL
I70M3458	40A	0/1*	270	690V / 700V
I70M3459	50A	0/1*	515	690V / 700V
I70M3460	63A	0/1*	770	690V / 700V
I70M3461	80A	0/1*	1 250	690V / 700V
I70M3462	100A	0/1*	2 450	690V / 700V
I70M3463	125A	0/1*	3 700	690V / 700V
I70M3464	160A	0/1*	7 500	690V / 700V
I70M3465	200A	0/1*	15 000	690V / 700V
I70M3466	250A	0/1*	28 500	690V / 700V
I70M3467	315A	0/1*	46 500	690V / 700V
I70M3468	350A	0/1*	68 500	690V / 700V
I70M3469	400A	0/1*	105 000	690V / 700V
I70M3470	450A	0/1*	140 000	690V / 700V
I70M3471	500A	0/1*	180 000	690V / 700V
I70M3472	550A	0/1*	230 000	690V / 700V
I70M3473	630A	0/1*	325 000	690V / 700V



Fuse Fitted with Trigger Indicator and Microswitch Adaptor



I70M4458	200A	I	11 500	690V / 700V
I70M4459	250A	I	21 000	690V / 700V
I70M4460	315A	I	42 000	690V / 700V
I70M4461	350A	I	59 000	690V / 700V
I70M4462	400A	I	91 500	690V / 700V
I70M4463	450A	I	120 000	690V / 700V
I70M4464	500A	I	170 000	690V / 700V
I70M4465	550A	I	230 000	690V / 700V
I70M4466	630A	I	350 000	690V / 700V
I70M4467	700A	I	465 000	690V / 700V
I70M4468	800A	I	725 000	690V / 700V
I70M4469	900A	I	850 000	550V / 700V

I70M5458	400A	2	74 000	690V / 700V
I70M5459	450A	2	105 000	690V / 700V
I70M5460	500A	2	145 000	690V / 700V
I70M5461	550A	2	190 000	690V / 700V
I70M5462	630A	2	275 000	690V / 700V
I70M5463	700A	2	405 000	690V / 700V
I70M5464	800A	2	575 000	690V / 700V
I70M5465	900A	2	840 000	690V / 700V
I70M5466	1000A	2	1 250 000	690V / 700V
I70M5467	1100A	2	1 600 000	690V / 700V
I70M5468	1250A	2	2 400 000	690V / 700V

I70M6458	500A	3	95 000	690V / 700V
I70M6459	550A	3	135 000	690V / 700V
I70M6460	630A	3	210 000	690V / 700V
I70M6461	700A	3	300 000	690V / 700V
I70M6462	800A	3	465 000	690V / 700V
I70M6463	900A	3	670 000	690V / 700V
I70M6464	1000A	3	945 000	690V / 700V
I70M6465	1100A	3	1 300 000	690V / 700V
I70M6466	1250A	3	1 950 000	690V / 700V
I70M6467	1400A	3	2 450 000	690V / 700V
I70M6468	1500A	3	3 100 000	690V / 700V
I70M6469	1600A	3	3 900 000	690V / 700V
I70M6470	1800A	3	5 250 000	600V / 500V
I70M6471	2000A	3	6 350 000	550V / 500V

I.R.: 200kA at rated voltage

Characteristic: Type aR, Very Fast Acting

Microswitch (Type K): I70H0069 (p148)

Holders: Sizes 0/1 & I (P/N: B301232). Sizes 2 & 3 (P/N: D301234).

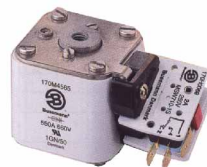
Studs: Optional extra. Please contact sales.

Notes: Bussmann Body Size I* = Size 0. **Approvals:** IEC

Body Size		Dimensions in MM							
		A	B	D	E	F	G	H	
0/1*		50	51	59	45	M8	5	17	
I		50	51	69	53	M8	8	20	
2		50	51	77	61	M10	10	24	
3		51	53	92	76	M12	10	30	



RELATED PRODUCTS: Fuse base with threaded fuse fitted. #B301232



Accessory Microswitch Type K (Page 148)

Features and Benefits

- Excellent DC performance
- Low arc voltage and low energy let-through (I^2t)
- Low watts loss
- Superior cycling capability

Typical Applications

- DC common bus
- DC drives
- Power converters / rectifiers
- Reduced voltage starters

Part Number	Ampere Rating	Body Size	Total I^2t at 1000V	Total I^2t at 1250V	Voltage IEC / UL
I70M3388	50A	0/1*	815	1 100	1250V/1300V
I70M3389	63A	0/1*	1 300	1 750	1250V/1300V
I70M3390	80A	0/1*	2 500	3 350	1250V/1300V
I70M3391	100A	0/1*	4 450	5 950	1250V/1300V
I70M3392	125A	0/1*	9 000	11 500	1250V/1300V
I70M3393	160A	0/1*	16 000	21 000	1250V/1300V
I70M3394	200A	0/1*	31 000	41 000	1250V/1300V
I70M3395	250A	0/1*	54 500	73 000	1250V/1300V
I70M3396	315A	0/1*	115 000	150 000	1250V/1300V
I70M3397	350A	0/1*	165 000	220 000	1250V/1300V
I70M4388	160A	I	11 500	15 500	1250V/1300V
I70M4389	200A	I	22 500	30 000	1250V/1300V
I70M4390	250A	I	46 000	61 500	1250V/1300V
I70M4391	315A	I	90 000	120 000	1250V/1300V
I70M4392	350A	I	125 000	165 000	1250V/1300V
I70M4393	400A	I	175 000	235 000	1250V/1300V
I70M4394	450A	I	250 000	335 000	1250V/1300V
I70M4395	500A	I	340 000	435 000	1100V/1300V
I70M4396	550A	I	465 000	590 000	1000V/1300V
I70M4397	630A	I	660 000	N/A	1000V/1300V
I70M5388	250A	2	38 500	51 500	1250V/1300V
I70M5389	280A	2	55 500	74 500	1250V/1300V
I70M5390	315A	2	77 500	105 000	1250V/1300V
I70M5391	350A	2	97 500	135 000	1250V/1300V
I70M5392	400A	2	140 000	180 000	1250V/1300V
I70M5393	450A	2	205 000	270 000	1250V/1300V
I70M5394	500A	2	285 000	380 000	1250V/1300V
I70M5395	550A	2	370 000	495 000	1250V/1300V
I70M5396	630A	2	575 000	730 000	1100V/1300V
I70M5397	700A	2	795 000	1 050 000	1000V/1300V
I70M5398	800A	2	1 200 000	1 550 000	1000V/1300V
I70M6338	315A	3	58 000	77 500	1250V/1300V
I70M6339	350A	3	81 500	110 000	1250V/1300V
I70M6340	400A	3	120 000	160 000	1250V/1300V
I70M6341	450A	3	185 000	245 000	1250V/1300V
I70M6342	500A	3	235 000	310 000	1250V/1300V
I70M6343	550A	3	325 000	435 000	1250V/1300V
I70M6344	630A	3	495 000	665 000	1250V/1300V
I70M6345	700A	3	705 000	940 000	1250V/1300V
I70M6346	800A	3	995 000	1 300 000	1100V/1300V
I70M6347	900A	3	1 500 000	1 900 000	1000V/1300V
I70M6348	1000A	3	2 150 000	2 750 000	1000V/1300V
I70M6349	1100A	3	2 800 000	3 600 000	1000V/1300V

I.R.: 100kA at rated voltage

Characteristic: Type aR, Very Fast Acting

Pack Size (box): 3

Microswitch (Type K): I70H0069 (p148)

Holders: See contact sales

Studs: Optional extra. Please contact sales.

Notes: Bussmann Body Size I* = Size 0.

Extended Range Options: Contact sales for further details.

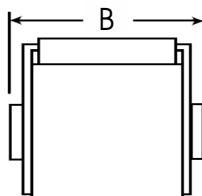
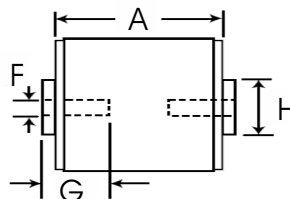
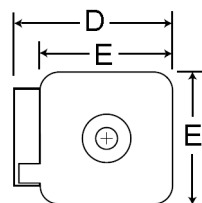
Body Size 4 - 1000V (1000A to 4000A)

Body Size 4 - 1250V (800A to 2500A)

Approvals:  IEC 



Fuse Fitted with Trigger Indicator and Microswitch Adaptor



Dimensions in MM								
Body Size	A	B	D	E	F	G	H	
0/1*	74	75	59	45	M8	5	17	
1	74	75	69	53	M8	8	20	
2	74	75	77	61	M10	10	24	
3	74	76	92	76	M12	10	30	

DIN 80	DIN 110	Ampere Rating	Body Size	Total I ² t at 660V
Part Number	Part Number			
170M3108	170M3258	40A	0/1*	270
170M3109	170M3259	50A	0/1*	515
170M3110	170M3260	63A	0/1*	770
170M3111	170M3261	80A	0/1*	1 250
170M3112	170M3262	100A	0/1*	2 450
170M3113	170M3263	125A	0/1*	3 700
170M3114	170M3264	160A	0/1*	7 500
170M3115	170M3265	200A	0/1*	15 000
170M3116	170M3266	250A	0/1*	28 500
170M3117	170M3267	315A	0/1*	46 500
170M3118	170M3268	350A	0/1*	68 500
170M3119	170M3269	400A	0/1*	105 000
170M3120	170M3270	450A	0/1*	140 000
170M3121	170M3271	500A	0/1*	180 000
170M3122	170M3272	550A	0/1*	230 000
170M3123	170M3273	630A	0/1*	325 000

170M4108	170M4258	200A	I	11 500
170M4109	170M4259	250A	I	21 000
170M4110	170M4260	315A	I	42 000
170M4111	170M4261	350A	I	59 000
170M4112	170M4262	400A	I	91 500
170M4113	170M4263	450A	I	120 000
170M4114	170M4264	500A	I	170 000
170M4115	170M4265	550A	I	230 000
170M4116	170M4266	630A	I	350 000
170M4117	170M4267	700A	I	465 000
170M4118	170M4268	800A	I	725 000
170M4119	170M4269	900A ^	I	850 000

170M5108	170M5258	400A	2	74 000
170M5109	170M5259	450A	2	105 000
170M5110	170M5260	500A	2	145 000
170M5111	170M5261	550A	2	190 000
170M5112	170M5262	630A	2	275 000
170M5113	170M5263	700A	2	405 000
170M5114	170M5264	800A	2	575 000
170M5115	170M5265	900A	2	840 000
170M5116	170M5266	1000A	2	1 250 000
170M5117	170M5267	1100A#	2	1 600 000
170M5118	170M5268	1250A#	2	2 400 000

170M6108	170M6258	500A	3	95 000
170M6109	170M6259	550A	3	135 000
170M6110	170M6260	630A	3	210 000
170M6111	170M6261	700A	3	300 000
170M6112	170M6262	800A	3	465 000
170M6113	170M6263	900A	3	670 000
170M6114	170M6264	1000A	3	945 000
170M6115	170M6265	1100A	3	1 300 000
170M6116	170M6266	1250A	3	1 950 000
170M6117	170M6267	1400A	3	2 450 000
170M6118	170M6268	1500A	3	3 100 000
170M6119	170M6269	1600A	3	3 900 000
170M6120	170M6270	1800A#	3	5 250 000
170M6121	170M6271	2000A ^	3	6 350 000

I.R.: 200kA at rated voltage

Voltage: 690VAC (IEC), 700VAC (UL)

Rated voltage 600V (IEC), ^ Rated voltage 550V (IEC).

Characteristic: Type aR, Very Fast Acting

Pack Size: 3 Holders: Blocks 170H.. (p137)

Microswitch (K Type): 170H0069 (p148)

Notes: Bussmann Body Size I* = Size 0. Approvals: DIN 43653 IEC

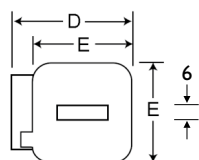
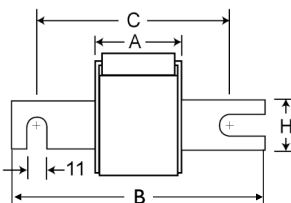
DIN 80



DIN 110



Fuses Fitted with Trigger Indicator and Microswitch Adaptor



Dimensions in MM

DIN 80 Tag Type						
Body Size	A	B	C	D	E	H
0/1*	50	104	78	58	45	22
1	50	108	78	66	53	25
2	50	108	78	75	61	25
3	51	109	78	90	76	30

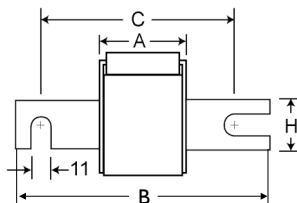
DIN 110 Tag Type						
Body Size	A	B	C	D	E	H
0/1*	50	134	108	58	45	22
1	50	138	108	66	53	25
2	50	138	108	75	61	25
3	51	139	108	90	76	30

DIN I 10	Ampere	Body	IEC		Total I ² t	Total I ² t at
Part Number	Rating	Size	VAC	VDC	at 1000V	1250VAC
I70M3238	50A	0/1*	1250	^	815	1 100
I70M3239	63A	0/1*	1250	^	1 300	1 750
I70M3240	80A	0/1*	1250	^	2 500	3 350
I70M3241	100A	0/1*	1250	^	4 450	5 950
I70M3242	125A	0/1*	1250	^	9 000	11 500
I70M3243	160A	0/1*	1250	^	16 000	21 000
I70M3244	200A	0/1*	1250	^	31 000	41 000
I70M3245	250A	0/1*	1250	^	54 500	73 000
I70M3246	315A	0/1*	1250	^	115 000	150 000
I70M3247	350A	0/1*	1250	^	165 000	220 000
I70M3248	400A	0/1*	1250	^	265 000	335 000



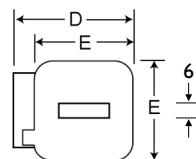
Fuse Fitted with Trigger Indicator and Microswitch Adaptor

I70M4238	160A	1	1250	900	11 500	15 500
I70M4239	200A	1	1250	900	22 500	30 000
I70M4240	250A	1	1250	900	46 000	61 500
I70M4241	315A	1	1250	900	90 000	120 000
I70M4242	350A	1	1250	900	125 000	165 000
I70M4243	400A	1	1250	900	175 000	235 000
I70M4244	450A	1	1250	900	250 000	335 000
I70M4245	500A	1	1250	^	340 000	435 000
I70M4246	550A	1	1250	^	465 000	590 000
I70M4247#	630A	1	1100	^	660 000	-



I70M5238	250A	2	1250	^	38 500	51 500
I70M5239	280A	2	1250	^	55 500	74 500
I70M5240	315A	2	1250	^	77 500	105 000
I70M5241	350A	2	1250	^	97 500	135 000
I70M5242	400A	2	1250	^	140 000	180 000
I70M5243	450A	2	1250	^	205 000	270 000
I70M5244	500A	2	1250	^	285 000	380 000
I70M5245	550A	2	1250	^	370 000	495 000
I70M5246	630A	2	1250	900	575 000	730 000
I70M5247	700A	2	1250	900	795 000	1 050 000
I70M5248	800A	2	1250	900	1 200 000	1 550 000
I70M5249#	900A	2	1100	900	1 750 000	-
I70M5250#	1000A	2	1100	900	2 350 000	-

Dimensions in MM



I70M6238	315A	3	1250	900	58 000	775 00
I70M6239	350A	3	1250	900	81 500	110 000
I70M6240	400A	3	1250	900	120 000	160 000
I70M6241	450A	3	1250	900	185 000	245 000
I70M6242	500A	3	1250	900	235 000	310 000
I70M6243	550A	3	1250	900	325 000	435 000
I70M6244	630A	3	1250	900	495 000	665 000
I70M6245	700A	3	1250	900	705 000	940 000
I70M6246	800A	3	1250	1000	995 000	1 300 000
I70M6247	900A	3	1250	1000	1 500 000	1 900 000
I70M6248	1000A	3	1250	1000	2 150 000	2 750 000
I70M6249	1100A	3	1250	1000	2 800 000	3 600 000
I70M6250#	1250A	3	1100	900	3 950 000	-
I70M6251#	1400A	3	1100	900	6 000 000	-

I.R.: 100kA at rated voltage

Voltage: VAC (As listed) 1300VAC (UL)
1250VAC (IEC), # 1100VAC (IEC).
VDC (As listed) ^ Contact sales

Characteristic: Type aR, Very Fast Acting
Pack Size (box): 3

Microswitch (Type K): I70H0069 (p148)

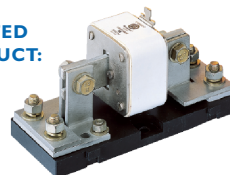
Price & Availability: Please contact sales

Holders: Blocks I70H.. (p137)

Notes: Bussmann Body Size I* = Size 0.

Approvals: DIN 43653 DIN IEC CE

RELATED PRODUCT:



Fuse block with bolted tag fuse

Features and Benefits

- Excellent DC performance
- Low arc voltage and low energy let-through (I²t)
- Low watts loss
- Superior cycling capability

Typical Applications

- DC common bus
- DC drives
- Power converters / rectifiers
- Reduced voltage starters

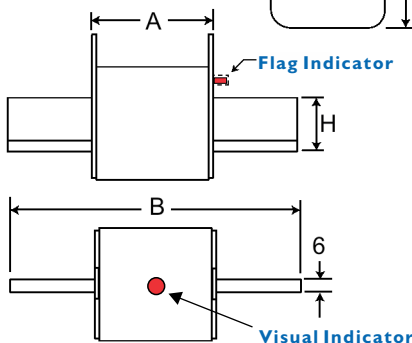
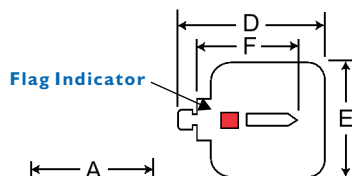
Part Number	Previous Product Code	Ampere Rating	Body Size	Total I ² t at 660V
I70MI558D	00C-GR010	10A	000	27
I70MI559D	00C-GR016	16A	000	51
I70MI560D	00C-GR020	20A	000	82.5
I70MI561D	00C-GR025	25A	000	140
I70MI562D	00C-GR032	32A	000	285
I70MI563D	00C-GR040	40A	000	490
I70MI564D	00C-GR050	50A	000	815
I70MI565D	00C-GR063	63A	000	1 550
I70MI566D	00C-AR080	80A	000	2 700
I70MI567D	00C-AR100	100A	000	4 950
I70MI568D	00C-AR125	125A	000	8 250
I70MI569D	00C-AR160	160A	000	16 500
I70MI570D	00C-AR200	200A	000	31 000
I70MI571D	00C-AR250	250A	000	56 000
I70MI572D	00-AR315	315A	00	84 500

I70M3808D	I-AR040	40A	I	285
I70M3809D	I-AR050	50A	I	550
I70M3810D	I-AR063	63A	I	850
I70M3811D	I-AR080	80A	I	1 350
I70M3812D	I-AR100	100A	I	2 600
I70M3813D	I-AR125	125A	I	3 900
I70M3814D	I-AR160	160A	I	8 250
I70M3815D	I-AR200	200A	I	16 500
I70M3816D	I-AR250	250A	I	31 000
I70M3817D	I-AR315	315A	I	52 000
I70M3818D	I-AR350	350A	I	73 000
I70M3819D	I-AR400	400A	I	115 000
I70M4863D	I-AR450	450A	I	155 000
I70M4864D	I-AR500	500A	I	190 000
I70M4865D	I-AR550	550A	I	240 000
I70M4866D	I-AR630	630A	I	345 000
I70M4867D	I-AR700	700A	I	495 000

I70M5808D	2-AR400	400A	2	79 000
I70M5809D	2-AR450	450A	2	115 000
I70M5810D	2-AR500	500A	2	155 000
I70M5811D	2-AR550	550A	2	215 000
I70M5812D	2-AR630	630A	2	295 000
I70M5813D	2-AR700	700A	2	430 000
I70M5814D	2-AR800	800A	2	610 000
I70M5820D	2-AR900	900A	2	895 000
I70M5816D	2-AR1000	1000A	2	1 300 000
I70M5817D	2-AR1100	1100A	2	1 750 000

I70M6808D	3-AR500	500A	3	99 500
I70M6809D	3-AR550	550A	3	140 000
I70M6810D	3-AR630	630A	3	220 000
I70M6811D	3-AR700	700A	3	320 000
I70M6812D	3-AR800	800A	3	490 000
I70M6813D	3-AR900	900A	3	720 000
I70M6814D	3-AR1000	1000A	3	985 000
I70M6892D	3-AR1100	1100A	3	1 400 000
I70M8554D	3-AR1250	1250A	3	2 150 000
I70M8555D	3-AR1400	1400A	3	2 700 000
I70M8556D	3-AR1500	1500A	3	3 350 000
I70M8557D	3-AR1600	1600A	3	4 150 000

Notes: Dual indicator now fitted on most ratings. This includes both a flag indicator located on the end plate which is powerful enough to trigger a microswitch and a visual indicator located on the front face of the fuse.



		Dimensions in MM					
Body Size		A	B	D	E	F	H
000		54	79	48	21	35	15
00		53	79	59	30	35	15
1		68	135	64	40	40	20
2		68	150	72	54	48	26
3		69	150	87	71	60	33

Body Size 000, (16A-63A)

I.R.: 200kA at rated voltage.

Voltage: 690VAC (IEC), 700VAC (UL)

Operating Class: gR

Pack Size (box): 3

Holders: Bases (p139), Disconnects (p142-143)

Microswitch (Type T): I70H.. (p148)

Accessories: NH-Extractor (p150)

Features: Flag Indicator

Approvals: IEC 60269-4 IEC

Body Size 000-3, (80A-1600A)

I.R.: 200kA at rated voltage.

Voltage: 690VAC (IEC), 700VAC (UL)

Operating Class: aR

Pack Size (box): 3

Holders: Bases (p139), Disconnects (p142-143)

Microswitch (Type T): I70H.. (p148)

Accessories: NH-Extractor (p150)

Features: Dual Indicator

Approvals: IEC 60269-4 IEC

(all ratings except I70M4867D)

Part Number	Ampere Rating	Body Size	Total I ² t at 660V
I70M1558D	10A	000	27
I70M1559D	16A	000	51
I70M1560D	20A	000	82.5
I70M1561D	25A	000	140
I70M1562D	32A	000	285
I70M1563D	40A	000	490
I70M1564D	50A	000	815
I70M1565D	63A	000	1 550

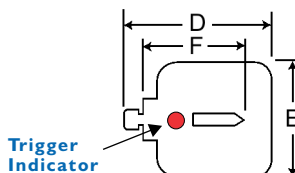
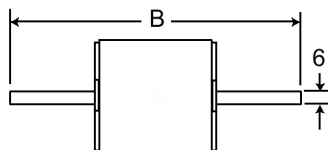
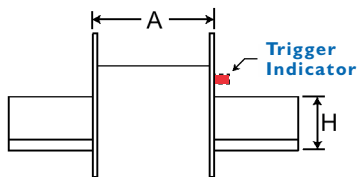
I70M2691	10A	00	20
I70M2692	16A	00	38
I70M2693	20A	00	70
I70M2694	25A	00	125
I70M2695	32A	00	275
I70M2696	40A	00	490
I70M2697	50A	00	1 000
I70M2698	63A	00	1 800
I70M2699	80A	00	3 600
I70M2700	100A	00	6 650
I70M2701	125A	00	12 000
I70M2702	160A	00	22 500

I70M4176	50A	1	705
I70M4177	63A	1	1 300
I70M4178	80A	1	2 600
I70M4179	100A	1	4 850
I70M4180	125A	1	9 500
I70M4181	160A	1	18 000
I70M4182	200A	1	34 500
I70M4183	250A	1	70 500
I70M4184	315A	1	135 000
I70M4185	350A	1	175 000
I70M4186	400A	1	250 000

I70M5881	200A	2	29 000
I70M5882	250A	2	52 500
I70M5883	315A	2	105 000
I70M5884	350A	2	135 000
I70M5885	400A	2	205 000
I70M5886	450A	2	290 000
I70M5887	500A	2	375 000
I70M5888	550A	2	515 000
I70M5889	630A	2	770 000

I70M6080	350A	3	120 000
I70M6081	400A	3	175 000
I70M6082	450A	3	250 000
I70M6083	500A	3	330 000
I70M6084	550A	3	435 000
I70M6085	630A	3	645 000
I70M6086	700A	3	840 000
I70M6087	800A	3	1 300 000

I.R.: 200kA at 690V
Voltage: 690VAC (IEC)
Operating Class: gR
Pack Size (box): 3
Holders: Bases (p139), Disconnects (p142-143)
Feature: Trigger indicator
Microswitch (Type T): I70H.. (p148)
Accessories: NH-Extractor (p150)
Approvals: IEC CE DIN 
 (Body size 000 & 00)



Body Size	Dimensions in MM					
	A	B	D	E	F	H
000	49	79	52	21	35	15
00	49	79	60	30	35	15
1	68	135	66	52	40	20
2	68	150	74	60	48	25
3	68	150	89	75	60	32

Square body DIN 43620 blade style high speed fuses.
 Full range protection fuses providing both overload and short-circuit protection.

Features and Benefits

- Excellent DC performance
- Low arc voltage and low energy let-through (I²t)
- Low watts loss
- Superior cycling capability



New gS NH blade fuse range is also available in body sizes 000, 00, 1, 2 and 3. Please refer to page 53 of this catalogue for further information..

Part Number	Ampere Rating	Body Size	Total I ² t at rated voltage
I70M2673	20A	00	110
I70M2674	25A	00	210
I70M2675	32A	00	390
I70M2676	35A	00	500
I70M2677	40A	00	760
I70M2678	50A	00	1 550
I70M2679	63A	00	2 750
I70M2680	80A	00	5 900
I70M2681	100A	00	11 500
I70M2682	125A	00	22 000
I70M2683	160A	00	45 000
I70M2684	200A#	00	86 500
I70M2685	225A#	00	115 000

I.R.: 125kA at rated voltage

Voltage: 1000VAC (20A to 160A)
900VAC (200A to 225A)#

Operating Class: aR

Pack Size (box): 3

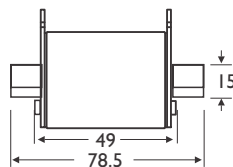
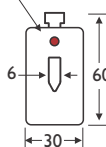
Holders: Fuse Bases (contact sales for details)

Accessories: NH-Extractor (p150)

Approvals: DIN IEC CE



Trigger Indicator



Dimensions in MM

NH BLADE SEMICONDUCTOR FUSES 1000V

ETI

Part Number	Ampere Rating	Body Size	Total I ² t at 1000V
0-AR016/1000V	16A	0	200
0-AR020/1000V	20A	0	300
0-AR025/1000V	25A	0	390
0-AR032/1000V	32A	0	480
0-AR040/1000V	40A	0	840
0-AR050/1000V	50A	0	1 300
0-AR063/1000V	63A	0	2 320
0-AR080/1000V	80A	0	3 900
0-AR100/1000V	100A	0	8 000
0-AR125/1000V	125A	0	18 300
0-AR160/1000V	160A	0	35 300

I.R.: 200kA at 1000VAC

Voltage: 1000VAC

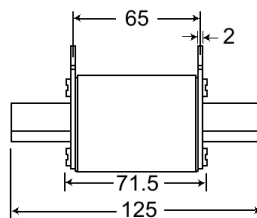
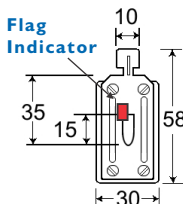
Operating Class: aR

Pack Size (box): 3

Holders: Fuse Bases (contact sales for details)

Accessories: NH-Extractor (p150)

Approvals: IEC 60269-4

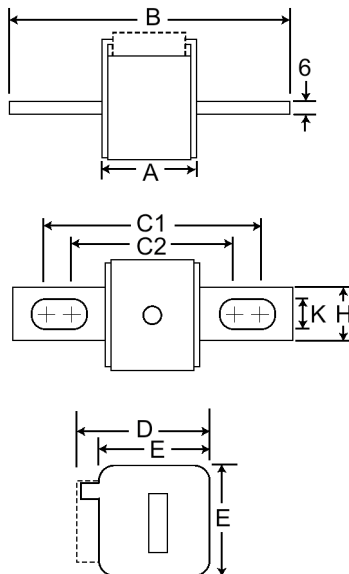


Dimensions in MM

Type FKE/90	Type FKE/I 15	Ampere Rating	Body Size	Total I ² t at 660V
Part Number	Part Number			
I70M3658	I70M3758	40A	0/I *	270
I70M3659	I70M3759	50A	0/I *	515
I70M3660	I70M3760	63A	0/I *	770
I70M3661	I70M3761	80A	0/I *	1 250
I70M3662	I70M3762	100A	0/I *	2 450
I70M3663	I70M3763	125A	0/I *	3 700
I70M3664	I70M3764	160A	0/I *	7 500
I70M3665	I70M3765	200A	0/I *	15 000
I70M3666	I70M3766	250A	0/I *	28 500
I70M3667	I70M3767	315A	0/I *	46 500
I70M3668	I70M3768	350A	0/I *	68 500
I70M3669	I70M3769	400A	0/I *	105 000
I70M3670	I70M3770	450A	0/I *	140 000
I70M3671	I70M3771	500A	0/I *	180 000
I70M3672	I70M3772	550A	0/I *	230 000
I70M3673	I70M3773	630A	0/I *	325 000
I70M4658	I70M4758	200A	I	11 500
I70M4659	I70M4759	250A	I	21 000
I70M4660	I70M4760	315A	I	42 000
I70M4661	I70M4761	350A	I	59 000
I70M4662	I70M4762	400A	I	91 500
I70M4663	I70M4763	450A	I	120 000
I70M4664	I70M4764	500A	I	170 000
I70M4665	I70M4765	550A	I	230 000
I70M4666	I70M4766	630A	I	350 000
I70M4667	I70M4767	700A	I	465 000
I70M4668	I70M4768	800A	I	725 000
I70M4669	I70M4769	900A ^	I	850 000
I70M5658	I70M5758	400A	2	74 000
I70M5659	I70M5759	450A	2	105 000
I70M5660	I70M5760	500A	2	145 000
I70M5661	I70M5761	550A	2	190 000
I70M5662	I70M5762	630A	2	275 000
I70M5663	I70M5763	700A	2	405 000
I70M5664	I70M5764	800A	2	575 000
I70M5665	I70M5765	900A	2	840 000
I70M5666	I70M5766	1000A	2	1 250 000
I70M5667	I70M5767	1100A	2	1 600 000
I70M5668	I70M5768	1250A	2	2 400 000
I70M6658	I70M6758	500A	3	95 000
I70M6659	I70M6759	550A	3	135 000
I70M6660	I70M6760	630A	3	210 000
I70M6661	I70M6761	700A	3	300 000
I70M6662	I70M6762	800A	3	465 000
I70M6663	I70M6763	900A	3	670 000
I70M6664	I70M6764	1000A	3	945 000
I70M6665	I70M6765	1100A	3	1 300 000
I70M6666	I70M6766	1250A	3	1 950 000
I70M6667	I70M6767	1400A	3	2 450 000
I70M6668	I70M6768	1500A	3	3 100 000
I70M6669	I70M6769	1600A	3	3 900 000
I70M6670	I70M6770	1800A#	3	5 250 000
I70M6671	I70M6771	2000A ^	3	6 350 000



Fuses Fitted with Trigger Indicator and Microswitch Adaptor



		Type FKE/90							
Body Size		A	B	C1	C2	D	E	H	K
0/I *	50	110	85	72	59	45	20	10	
	1	50	136	104	78	69	53	25	14
	2	50	135	105	78	77	61	25	14
	3	51	135	106	77	92	76	36	16

		Type FKE/I 15							
Body Size		A	B	C1	C2	D	E	H	K
0/I *	50	148	123	110	59	45	20	10	
	1	50	157	126	100	69	53	25	14
	2	50	159	125	99	77	61	25	14
	3	51	155	125	97	92	76	36	16

Dimensions in MM

I.R.: 200kA at rated voltage

Voltage: 700VAC (UL), 690VAC (IEC),
#600VAC (IEC), ^ 550VAC (IEC).

Operating Class: aR

Holders: Blocks (contact sales for details)

Microswitch (Type K): I70H0069 (p148)

Notes: Bussmann Body Size I * = Size 0.

Pack Size (box): 3

Approvals: IEC

Type FKE/I 15

Part Number	Ampere Rating	Body Size	Total I ² t at 1000V	Total I ² t at 1250V
I70M3738	50A	0/I*	815	1 100
I70M3739	63A	0/I*	1 300	1 750
I70M3740	80A	0/I*	2 500	3 350
I70M3741	100A	0/I*	4 450	5 950
I70M3742	125A	0/I*	9 000	11 500
I70M3743	160A	0/I*	16 000	21 000
I70M3744	200A	0/I*	31 000	41 000
I70M3745	250A	0/I*	54 500	73 000
I70M3746	315A	0/I*	115 000	150 000
I70M3747	350A	0/I*	165 000	220 000

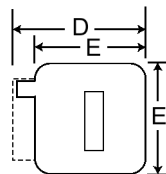
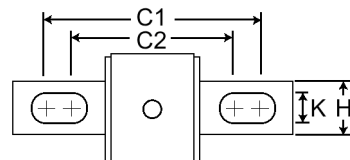
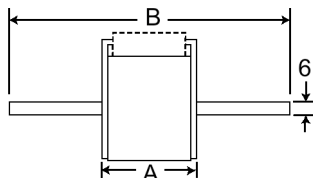
I70M4738	160A	I	11 500	15 500
I70M4739	200A	I	22 500	30 000
I70M4740	250A	I	46 000	61 500
I70M4741	315A	I	90 000	120 000
I70M4742	350A	I	125 000	165 000
I70M4743	400A	I	175 000	235 000
I70M4744	450A	I	250 000	335 000
I70M4745	500A†	I	340 000	-
I70M4746	550A†	I	465 000	-
I70M4747	630A‡	I	660 000	-

I70M5738	250A	2	38 500	51 500
I70M5739	280A	2	55 500	74 500
I70M5740	315A	2	77 500	105 000
I70M5741	350A	2	97 500	135 000
I70M5742	400A	2	140 000	180 000
I70M5743	450A	2	205 000	270 000
I70M5744	500A	2	285 000	380 000
I70M5745	550A	2	370 000	495 000
I70M5746	630A	2	575 000	730 000
I70M5747	700A†	2	795 000	-
I70M5748	800A†	2	1 200 000	-
I70M5749	900A‡	2	1 750 000	-
I70M5750	1000A‡	2	2 350 000	-

I70M6738	315A	3	58 000	77 500
I70M6739	350A	3	81 500	110 000
I70M6740	400A	3	120 000	160 000
I70M6741	450A	3	185 000	245 000
I70M6742	500A	3	235 000	310 000
I70M6743	550A	3	325 000	435 000
I70M6744	630A	3	495 000	665 000
I70M6745	700A	3	705 000	940 000
I70M6746	800A	3	995 000	1 300 000
I70M6747	900A	3	1 500 000	1 900 000
I70M6748	1000A‡†	3	2 150 000	-
I70M6749	1100A‡†	3	2 800 000	-
I70M6750	1250A‡†	3	3 950 000	-
I70M6751	1400A‡†	3	6 000 000	-



Fuses Fitted with Trigger Indicator and Microswitch Adaptor



Type FKE/I 15 Dimensions in MM

Size	A	B	C1	C2	D	E	H	K
0/I*	74	156	130	101	59	45	20	10
1	74	160	127	102	69	53	25	14
2	74	160	127	102	77	61	25	14
3	74	159	128	101	92	76	36	16

I.R.: 100kA at rated voltage

Voltage: 1300VAC (UL), 1250VAC (IEC)

† Voltage: 1100V (IEC).

‡ Voltage: 1000V (IEC).

¥ Voltage: 1000V (UL).

Operating Class: aR

Pack Size (box): 3

Microswitch (Type K): I70H0069 (p148)

Holders: Blocks (contact sales for details)

Notes: Bussmann Body Size I* = Size 0.

Approvals: IEC

Features and Benefits

- Excellent DC performance
- Low arc voltage and low energy let-through (I²t)
- Low watts loss
- Superior cycling capability

Typical Applications

- DC common bus
- DC drives
- Power converters / rectifiers
- Reduced voltage starters

NEOZED SEMICONDUCTOR FUSES 400V

ETI

Part Number	Ampere Rating	Total I ² t at 400VAC	Type / Size	Cap Diameter	Indicator Colour
NEO-FF002	2A	6.3	D01 / E14	7.3mm	Pink
NEO-FF004	4A	13	D01 / E14	7.3mm	Brown
NEO-FF006	6A	20	D01 / E14	7.3mm	Green
NEO-FF010	10A	65	D01 / E14	8.5mm	Red
NEO-FF016	16A	200	D01 / E14	9.7mm	Grey
NEO-FF020	20A	275	D02 / E18	10.9mm	Blue
NEO-FF025	25A	480	D02 / E18	12.1mm	Yellow
NEO-FF035	35A	1 000	D02 / E18	13.3mm	Black
NEO-FF050	50A	1 800	D02 / E18	14.5mm	White
NEO-FF063	63A	2 500	D02 / E18	15.9mm	Copper

D01



D02



I.R.: 50kA at 400VAC, 8kA at 250VDC

Voltage: 400VAC / 250VDC

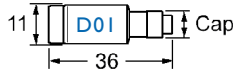
Characteristic: Type gR, Very Fast Acting

Pack Size (box): 10, 25, 50

Features: Blown fuse visual indicator

Holders: Contact sales for further information.

Approvals: IEC

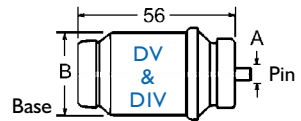
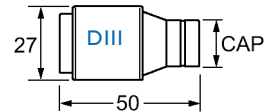
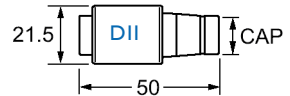
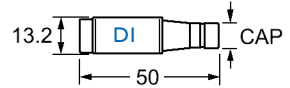


Dimensions in MM

BOTTLE SEMICONDUCTOR FUSES 500V

ETI

Part Number	Ampere Rating	Total I ² t at 500VAC	Type / Size	Cap Diameter	Indicator Colour
B16-FF002	2A	5.8	D1 / E16	6mm	Pink
B16-FF004	4A	11	D1 / E16	6mm	Brown
B16-FF006	6A	18	D1 / E16	6mm	Green
B16-FF010	10A	40	D1 / E16	8mm	Red
B16-FF016	16A	60	D1 / E16	10mm	Grey
B16-FF020	20A	139	D1 / E16	12mm	Blue
B16-FF025	25A	205	D1 / E16	14mm	Yellow
B27-FF002	2A	5.8	DII / E27	6mm	Pink
B27-FF004	4A	11	DII / E27	6mm	Brown
B27-FF006	6A	18	DII / E27	6mm	Green
B27-FF010	10A	40	DII / E27	8mm	Red
B27-FF016	16A	60	DII / E27	10mm	Grey
B27-FF020	20A	139	DII / E27	12mm	Blue
B27-FF025	25A	205	DII / E27	14mm	Yellow
B27-FF030	30A	310	DII / E27	14mm	Black
B33-FF035	35A	539	DIII / E33	16mm	Black
B33-FF050	50A	1 250	DIII / E33	18mm	White
B33-FF063	63A	1 890	DIII / E33	20mm	Copper



Dimensions in MM

Part Number	Ampere Rating	Total I ² t at 500VAC	Type / Size	Pin (A) Dia.	Base (B) Diam.
DIV-FF080	80A	4 200	DIV / R1 1/4"	5mm	33mm
DIV-FF100	100A	8 450	DIV / R1 1/4"	7mm	33mm
DV-FF125	125A	16 000	DV / R2"	5mm	46mm
DV-FF160	160A	24 000	DV / R2"	7mm	46mm
DV-FF200	200A	40 000	DV / R2"	9mm	46mm

I.R.: 50kA at 500VAC, 8kA at 315VDC

Voltage: 500VAC / 315VDC

Characteristic: Type gR, Very Fast Acting

Pack Size (box): 5, 10, 25, 50

Holders: Bases (p132)

Features: Blown fuse visual indicator

Approvals: IEC

D1



DII



DIII



DIV
DV



Swe-Check ✓

Email: sales@swe-check.com.au
Phone: (+61) 03 9521 6133

Part Number	Ampere Rating	Voltage AC	Voltage DC
FWS-2A20F	2A	2000V	1000V
FWS-6A20F	6A	2000V	1000V
FWS-8A20F	8A	2000V	1000V
FWS-10A20F	10A	1400V	1000V
FWS-12A20F	12A	1400V	1000V
FWS-15A20F	15A	1400V	1000V
FWL-20A20F	20A	1200V	1000V
FWL-25A20F	25A	1200V	1000V
FWL-30A20F	30A	1200V	1000V

I.R.: 45kA at rated VAC, 30kA at 1000VDC

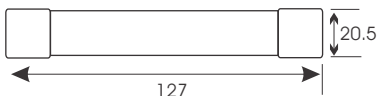
Voltage: See above

Characteristic: Type gR, Very Fast Acting

Pack Size (box): 10

Notes: Indicator version also available.

Approvals: CE IEC



Dimensions are in MM



RELATED PRODUCTS:

CHI27-I

Fuse Disconnect

CHI27-I (see p. 140)

MINING - TRACTION FUSES 1200VAC 660VDC/750VDC

Part Number	Ampere Rating	Voltage AC	Voltage DC
IHD36*	1A	1200V	750V
TAC2	2A	1200V	660V
TAC4	4A	1200V	660V
TAC6	6A	1200V	660V
TAC10	10A	1200V	660V
TAC16	16A	1200V	660V
TAC20	20A	1200V	660V
TAC25	25A	1200V	660V
TAC32	32A	1200V	660V
TSC35	35A	1200V	750V
40KC36*	40A	-	750V
TSC50	50A	1200V	660V
TSC63	63A	1200V	750V



Closed Tag - TAC Series



Open Tag - HD36 / KC36 Series*

Characteristic: Type gR, Very Fast Acting

Pack Size (box): 10

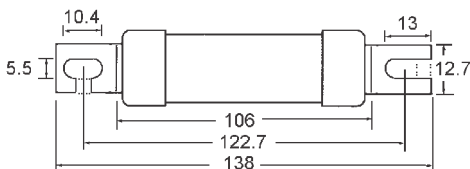
Notes: HD and KC series are not recommended for new designs.

RELATED PRODUCTS:

Fuse Carrier

RSL63H (see p. 129)

RSL63H



Ampere Ratings	Dimensions in MM	
	A	B
1A - 32A	21.8	22.0
35A - 63A	27.0	27.8



Introducing fuse-links specially designed for protection of battery storage and UPS systems. They provide better protection of battery cells on overheating in case of short circuit in comparison to standard type gG fuses.

Part Number	Body Size	Ampere Rating	Voltage
000-BF020	000	20	440VDC
000-BF025	000	25	440VDC
000-BF032	000	32	440VDC
000-BF040	000	40	440VDC
000-BF050	000	50	440VDC
000-BF063	000	63	440VDC
000-BF080	000	80	440VDC
000-BF100	000	100	440VDC
00-BF125	00	125	440VDC
1-BF160	1	160	550VDC
1-BF200	1	200	550VDC
1-BF224	1	224	550VDC
1-BF250	1	250	550VDC
2-BF315	2	315	550VDC
2-BF355	2	350/355	550VDC
2-BF400	2	400	550VDC
3-BF500	3	500	550VDC
3-BF630	3	630	550VDC



I.R.: 30kA at 440VDC (Body Sizes 000 & 00)

I.R.: 30kA at 550VDC (Body Sizes 1, 2 & 3)

Time Constant (L/R): 10ms (Body Sizes 1, 2 & 3)

Characteristic: Type gS, Very Fast Acting

Options: Striker indicator.

Holders (Size 000/00): Bases (contact sales)

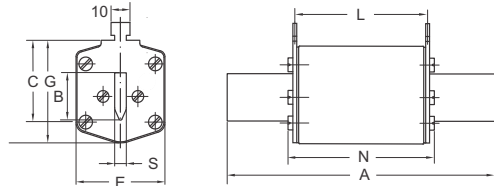
Fuse Switch Disconnectors (p142-143)

Holders (Size 1/2/3): Bases (p139)

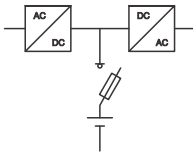
Fuse Switch Disconnectors (p141-143)

Accessories: NH-Extractor (p150)

Approvals: CE IEC



BATTERY FUSE



Body Size	Dimensions in MM							
	A	B	C	E	G	S	L	N
000	78.5	15	35	21	43	6	47	52
00	78.5	15	35	29	49	6	47	52
1	135	24	40	46	52	6	65	73
2	150	30	48	54	61	6	65	73
3	150	37	60	64	74	6	65	73

Battery Fuses Provide Superior Protection

Short Circuit Current

- Short circuit current depending on battery model, type and capacity, low compared to operating current.
 - Short circuit current has to be interrupted in <5 seconds.
- Required steep characteristics: protection with Battery fuse link required!

Operating Current

- Operating current depends on battery storage specification.
- Battery operation: voltage of DC link circuit decreases to the final discharge voltage.

Consider maximum current at final discharge voltage for fuse link selection.

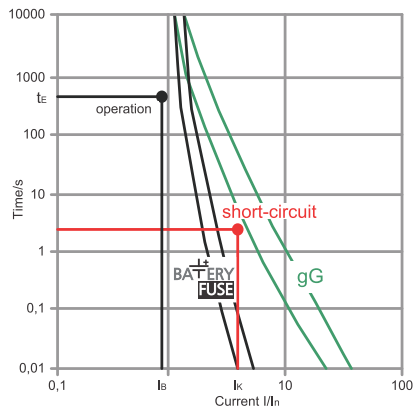
Battery Fuse vs. Regular gG Fuse - Performance Chart

Battery Fuse (black lines) vs. regular gG fuse (green lines).

Backup time of battery storage system (t_b).

Maximum operating current (I_b).

Short circuit point (I_k).



A range of NH size fuse links specifically designed for protecting and isolating photovoltaic array combiner and disconnects. These fuse links are capable of interrupting low over currents associated with faulted PV systems (reverse current, multi-array fault).

Features and benefits:

- Compact size saves panel space and extends design flexibility.
- Low power loss for greater efficiency and lower operating temperature.
- Global agency standards simplifies design considerations for worldwide markets.
- Dual indication feature and optional micro switches make system monitoring easier.

Typical applications:

- Recombine boxes & inverters.



Full Blade



Bolted Tag

Full Blade Part Number	Ampere Rating	Body Size	Total I ² t at 1000V
PV-32ANHH1	32A	1	720
PV-40ANHH1	40A	1	1 670
PV-50ANHH1	50A	1	3 600
PV-63ANHH1	63A	1	4 300
PV-80ANHH1	80A	1	5 760
PV-100ANHH1	100A	1	11 700
PV-125ANHH1	125A	1	23 400
PV-160ANHH1	160A	1	46 800
PV-200ANHH1	200A	1	82 000
PV-160ANH2	160A	2	37 000
PV-200ANH2	200A	2	76 000
PV-250ANH2	250A	2	136 000
PV-300ANH3	300A	3	260 000
PV-315ANH3	315A	3	260 000
PV-350ANH3	350A	3	370 000
PV-355ANH3	355A	3	370 000
PV-400ANH3	400A	3	550 000

Bolted Tag Part Number	Ampere Rating	Body Size	Total I ² t at 1000V
PV-63ANHH1-B	63A	1	4 300
PV-80ANHH1-B	80A	1	5 760
PV-100ANHH1-B	100A	1	11 700
PV-125ANHH1-B	125A	1	23 400
PV-160ANHH1-B	160A	1	46 800
PV-200ANHH1-B	200A	1	82 000
PV-160ANH2-B	160A	2	37 000
PV-200ANH2-B	200A	2	76 000
PV-250ANH2-B	250A	2	136 000
PV-315ANH3-B	315A	3	260 000
PV-355ANH3-B	355A	3	310 000
PV-400ANH3-B	400A	3	490 000

Bolted Tag Fuse Accessories

Notes: Bolt hole and lug version add suffix "BL"
Holders: Blocks (p135)

Full Blade Fuse Accessories

Holders: Bases (p139),
Fuse Switch Disconnecter (p141)

Microswitch (Type T): 170H0236 (p148)

Accessories: NH-Extractor (p150)

I.R.: 50kA at 1000VDC

Voltage: 1000VDC

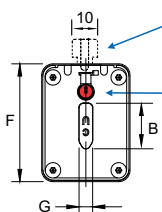
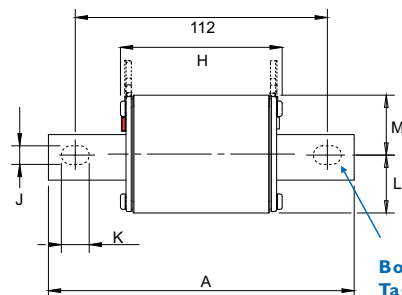
Characteristic: Type gPV

Min Interrupting Rating: 1.35 x In.

Time Constant: 1-3ms

Approvals: 2579 (File Nbr E335324),

IEC 60269-6 RoHS

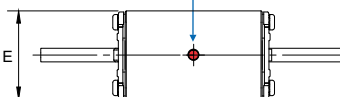


Bolt Holes for Bolted Tag Versions Only.

Extractor Lugs Full Blade Version Only

Flag Indicator

Visual Indicator



RELATED PRODUCTS:



Fuse Bases Suit Bladed Tag

Sizes 1, 2 & 3 # SDx-D-PV (p139)

Body Size	Dimensions for Full Blade & Bolted Tag					Full Blade	Dimensions for Bolted Tag Only				
	A	B	E	F	G	H	H	J	K	L	M
1	135	20	40	53	6	67	71	8.2	12.3	26	27
2	150	25	54	61	6	67	71	10.3	15	28	32
3	150	32	71	76	6	68	73	10.3	15	35	41

Dimensions in MM

Bussmann XL fuse links are specifically designed to protect and isolate photovoltaic array combiners and disconnects. These fuse links are capable of interrupting low overcurrents associated with faulted PV systems (reverse current, multi-array fault).

Full Blade Part Number	Bolted Tag Part Number	Ampere Rating	Body Size	Voltage VDC	Total I ² t at 1500V
PV-50A-01XL-15	PV-50A-01XL-B-15	50A	01XL	1500	1 000
PV-63A-01XL-15	PV-63A-01XL-B-15	63A	01XL	1500	2 250
PV-80A-01XL-15	PV-80A-01XL-B-15	80A	01XL	1500	3 300
PV-100A-01XL-15	PV-100A-01XL-B-15	100A	01XL	1500	6 600
PV-125A-01XL-15	PV-125A-01XL-B-15	125A	01XL	1500	10 500
PV-160A-01XL-12	PV-160A-01XL-B-12	160A	01XL	1200	24 000
PV-100A-1XL-15	PV-100A-1XL-B-15	100A	1XL	1500	6 000
PV-125A-1XL-15	PV-125A-1XL-B-15	125A	1XL	1500	9 360
PV-160A-1XL-15	PV-160A-1XL-B-15	160A	1XL	1500	20 160
PV-200A-1XL-15	PV-200A-1XL-B-15	200A	1XL	1500	45 120
PV-125A-2XL-15	PV-125A-2XL-B-15	125A	2XL	1500	15 000
PV-150A-2XL-15	PV-150A-2XL-B-15	150A	2XL	1500	32 000
PV-200A-2XL-15	PV-200A-2XL-B-15	200A	2XL	1500	51 000
PV-250A-2XL-15	PV-250A-2XL-B-15	250A	2XL	1500	85 000
-	PV-125A-2XL-3B-15*	125A	2XL	1500	15 000
-	PV-160A-2XL-3B-15*	160A	2XL	1500	32 000
-	PV-200A-2XL-3B-15*	200A	2XL	1500	51 000
-	PV-250A-2XL-3B-15*	250A	2XL	1500	85 000
PV-250A-3L-15	PV-250A-3L-B-15	250A	3L	1500	263 000
PV-315A-3L-15	PV-315A-3L-B-15	315A	3L	1500	533 000
PV-355A-3L-15	PV-355A-3L-B-15	355A	3L	1500	693 000
PV-400A-3L-15	PV-400A-3L-B-15	400A	3L	1500	1 060 000
PV-500A-3L-15	PV-500A-3L-B-15	500A	3L	1500	1 890 000



Full Blade Includes a Top Flag Indicator



Bolted Tag Includes Trigger Indicator & Microswitch Adapter

Full Blade Specifications

I.R.: 30kA

Characteristic: Type gPV, Very Fast Acting

Pack Size: 1

Microswitch (Type T): 170H0235 (01XL), 170H0236 (1XL, 2XL & 3L) (p148)

Holders: SB1XL-S (size 01XL & 1XL) (p141)
SB2XL-S (size 2XL) (p141)
SB3L-S (size 3L) (p141)

Fuse Extraction Handle: # FEH-1500. (p150).

Approvals: 2579 (File Nbr E335324), IEC 60269-6

Bolted Tag Specifications

I.R.: 30kA

Characteristic: Type gPV, Very Fast Acting

Pack Size: 1

Microswitch: 170H0069 (all fuse sizes) (p148)

Holders: (size 01XL & 1XL)
(size 2XL)
(size 3L)

Notes: *These size 2 fuses have the same bolting pattern as the size 3 fuses.

Approvals: 2579 (File Nbr E335324), IEC 60269-6

RELATED PRODUCTS:



Microswitch Suit Bladed Tag
170H0235 & 170H0238 (p148)



Microswitch Suit Bolted Tag
170H0069 (p148)

Scan this QR Code for more information



QR Code: 4000



Fuse Extraction Handle
FEH-1500 (p150)



Bladed Fuse Base
NH PV XL Fuse Bases (p141)



Bolted Tag Fuse Base
PV XL-B Fuse Bases (p135*)

*To be confirmed.

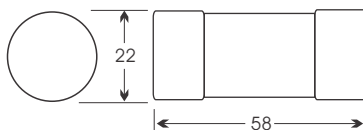
Features:

- Fuse link with glass fiber body.
- Special design with silver plated caps for high power PV applications.
- Ampere ratings available 1A - 80A.
- Time constant: 1-3ms.
- DIN rail carriers & modular fuse blocks available.

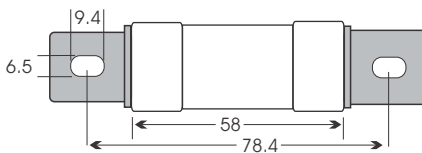
Cartridge Part Number	Center Tag Part Number	Offset Tag Part Number	Ampere Rating
A942200B00	A942200B01	A942200B02	20A
A942250B00	A942250B01	A942250B02	25A
A942300B00	A942300B01	A942300B02	30A
A942320B00	A942320B01	A942320B02	32A
A942400B00	A942400B01	A942400B02	40A
A942450B00	A942450B01	A942450B02	45A
A942500B00	A942500B01	A942500B02	50A
A942550B00	A942550B01	A942550B02	55A
A942600B00	A942600B01	A942600B02	60A
A942650B00	A942650B01	A942650B02	65A
A942700B00	A942700B01	A942700B02	70A
A942800B00	A942800B01	A942800B02	80A



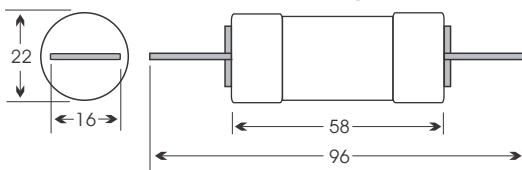
Cartridge Fuse



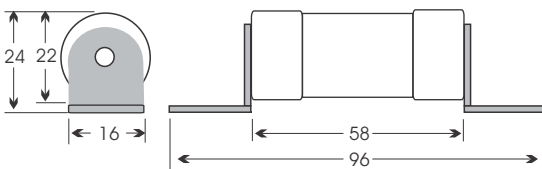
Center & Offset Tag Hole Specifications



Center Tag Fuse



Offset Tag Fuse



Dimensions in MM

I.R.: 10kA at 1500VDC (1A to 65A),
10kA at 1300VDC (70A to 80A)

Voltage: 1500VDC

Characteristic: Type gPV, Very Fast Acting

Pack Size (box): 10, 20

Cartridge Fuse Carrier: Din Rail Mount

Approvals: E490190 IEC 60269-6

Notes: Ampere ratings 1A-16A contact sales.

RELATED PRODUCTS:



22x58mm Cartridge Fuse Carrier

BH400 : Non indicating

BH401 : LED indicating



Bolted Tag Fuse Modular Block

LSCRI01 : 1/4" Stud, 400A 1000VDC (Page 135)

Industrial Cartridge, Bladed & Bolted Tag Fuses



Cartridge Fuse



British Industrial Fuse



NH Bladed Fuse

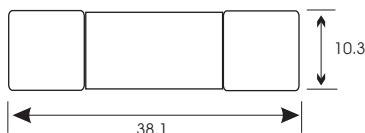
Cartridge Fuses

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Blade & Bolted Tag Fuses

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British Standard Fuses (BS88)	92 - 100
Joint Service Fuses (NATO Std)	101
Industrial Marine Fuses	102

Part Number	Ampere Rating
BAF.200	200mA
BAF.250	250mA
BAF.500	500mA
BAF.600	600mA
BAF.800	800mA
BAF001	1A
BAF01.5	1.5A
BAF01.8	1.8A
BAF002	2A
BAF02.5	2.5A
BAF003	3A
BAF004	4A
BAF005	5A
BAF006	6A
BAF6.25	6.25A
BAF007	7A
BAF008	8A
BAF009	9A
BAF010	10A
BAF012	12A
BAF015	15A
BAF020	20A
BAF025	25A
BAF030	30A



Dimensions in MM

I.R.: 10kA at 125VAC, (call for I.R. @ 250VAC)

Voltage: 250VAC

Characteristic: Fast Acting

Pack Size (box): 10

Holders: Clips (p113), Panel Mount (p120),
Inline (p122), Carrier (p127-128),
Blocks (p133), Disconnectors (p140)

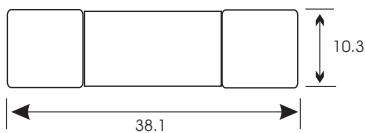
Notes: BAF Series (laminated tube) not recommended for applications in humid areas.

Approvals: (3A to 15A) (250mA to 15A)

Recommended Upgrade
KTK Series (p71)



Part Number	Old Part Number	Ampere Rating
KLM.100	DCM.100	100mA
KLM.125	—	125mA
KLM.200	DCM.200	200mA
KLM.250	—	250mA
KLM.300	—	300mA
KLM.500	—	500mA
KLM.750	—	750mA
KLM001	—	1A
KLM1.25	—	1.25A
KLM01.5	—	1.5A
KLM002	DCM002	2A
KLM02.5	—	2.5A
KLM003	DCM003	3A
KLM004	—	4A
KLM005	—	5A
KLM006	—	6A
KLM007	—	7A
KLM008	DCM008	8A
KLM009	—	9A
KLM010	—	10A
KLM012	—	12A
KLM015	—	15A
KLM020	—	20A
KLM025	—	25A
KLM030	—	30A



Dimensions in MM

I.R.: 100kA at 600VAC
50kA at 600VDC

Voltage: 600VAC, 600VDC

Characteristic: Fast Acting

Pack Size (box): 10

Holders: Clips (p113), Panel Mount (p120),
Inline (p122), Carrier (p127-128),
Blocks (p133), Disconnectors (p140)

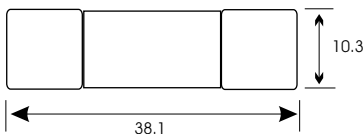
Notes: KLM series replaces the DCM series.

Approvals: (KLM series only)

Recommended Upgrade
DCM replaced by KLM



Part Number	Ampere Rating
KTK.100	100mA
KTK.125	125mA
KTK.200	200mA
KTK.250	250mA
KTK.300	300mA
KTK.400	400mA
KTK.500	500mA
KTK.600	600mA
KTK.750	750mA
KTK001	1A
KTK1.25	1.25A
KTK01.5	1.5A
KTK002	2A
KTK02.5	2.5A
KTK003	3A
KTK03.5	3.5A
KTK004	4A
KTK005	5A
KTK006	6A
KTK007	7A
KTK07.5	7.5A
KTK008	8A
KTK009	9A
KTK010	10A
KTK012	12A
KTK015	15A
KTK020	20A
KTK025	25A
KTK030	30A
KTK035	35A*
KTK040	40A*
KTK045	45A*
KTK050	50A*



Dimensions in MM

I.R.: 100kA at 600VAC

Voltage: 600VAC

Characteristic: Fast Acting

Pack Size (box): 10

Holders: Clips (p113), Blocks (p133)

Panel (p120), Carrier (p127-128)

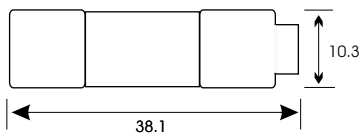
Inline (p122), Disconnect (p140)

Fuse Classification: (Limitron)

Notes: *Continuous current rating of 24A max.

Approvals:

Part Number	Ampere Rating
KTKR.100	100mA
KTKR.125	125mA
KTKR.200	200mA
KTKR.250	250mA
KTKR.300	300mA
KTKR.400	400mA
KTKR.500	500mA
KTKR.600	600mA
KTKR.750	750mA
KTKR001	1A
KTKR01.5	1.5A
KTKR002	2A
KTKR02.5	2.5A
KTKR003	3A
KTKR03.5	3.5A
KTKR004	4A
KTKR005	5A
KTKR006	6A
KTKR007	7A
KTKR008	8A
KTKR009	9A
KTKR010	10A
KTKR012	12A
KTKR015	15A
KTKR020	20A
KTKR025	25A
KTKR030	30A



Dimensions in MM

I.R.: 200kA at 600VAC

Voltage: 600VAC

Characteristic: Fast Acting

Pack Size (box): 10

Holders: Clips (p113), Blocks (p133)

Panel (p120), Carrier (p127-128)

Inline (p122), Disconnect (p140)

Fuse Classification: Class CC (Limitron)

Notes: Class CC fuses have basic midjet dimensions with a rejection feature added to one cap. These fuses can be used in both standard fuse holders and fuse holders with rejection feature.

Approvals:

FLA SERIES (INDICATING)



Part Number	Ampere Rating	Body Type
FLAxxx	1A to 10A	Single
FLAxxx	12A to 30A	Double

Ratings: 1A, 1.6A, 2A, 3A, 4A, 5A, 6A, 8A, 10A, 12A*, 15A*, 20A*, 25A*, 30A*

Sample P/N: FLA005 for 5A fuse

I.R.: 10kA at 125VAC

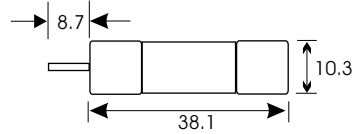
Voltage: 125VAC

Characteristic: Slow Acting

Pack Size (box): 1, 10

Holders: Clips (p113)

Approvals:



Dimensions in MM *



Notes: * 12A - 30A ratings have a dual tube construction (2 bodies side by side). All ratings feature a silver plated pin indicator which provides visual indication that the fuse has opened.

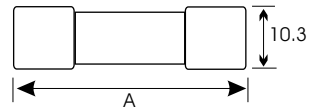
SC SERIES



SC fuses are designed for inductive and non-inductive loads with limited inrush currents, including resistance heaters, small motors, fans, lighting fixtures, lighting circuits and some hermetic compressors.

Part Number	Ampere Rating	Element Speed
SC.500	500mA	Fast Acting
SC001	1A	Fast Acting
SC01.5	1.5A	Fast Acting
SC002	2A	Fast Acting
SC02.5	2.5A	Fast Acting
SC003	3A	Fast Acting
SC004	4A	Fast Acting
SC005	5A	Fast Acting
SC006	6A	Fast Acting

SC007	7A	Slow Acting
SC008	8A	Slow Acting
SC010	10A	Slow Acting
SC012	12A	Slow Acting
SC015	15A	Slow Acting
SC020	20A	Slow Acting
SC025	25A	Slow Acting
SC030	30A	Slow Acting
SC035	35A	Slow Acting
SC040	40A	Slow Acting
SC045	45A	Slow Acting
SC050	50A	Slow Acting
SC060	60A	Slow Acting



I.R.: 100kA at rated VAC

10kA at rated VDC

Voltage: 600VAC (500mA to 20A)

480VAC (25A to 60A)

170VDC (500mA to 20A)

300VDC (25A to 60A)

Characteristic: See above

Pack Size (box): 10

Holders: Clips (p113)

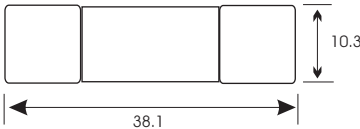
Fuse Classification: Class G

Approvals:

Fuse	Ampere Rating	A
SC	500mA-15A	33.3
SC	20A	35.8
SC	25A-30A	41.2
SC	35A-60A	57.2

Dimensions in MM

Part Number	Ampere Rating
FNM.100	100mA
FNM.125	125mA
FNM.150	150mA
FNM.200	200mA
FNM.250	250mA
FNM.300	300mA
FNM.400	400mA
FNM.500	500mA
FNM.600	600mA
FNM.800	800mA
FNM001	1A
FNM1.125	1.125A
FNM1.25	1.25A
FNM01.5	1.5A
FNM01.6	1.6A
FNM01.8	1.8A
FNM002	2A
FNM2.25	2.25A
FNM02.5	2.5A
FNM02.8	2.8A
FNM003	3A
FNM03.2	3.2A
FNM03.5	3.5A
FNM004	4A
FNM04.5	4.5A
FNM005	5A
FNM05.6	5.6A
FNM006	6A
FNM6.25	6.25A
FNM007	7A
FNM008	8A
FNM010	10A
FNM012	12A
FNM015	15A
FNM020	20A
FNM025	25A
FNM030	30A



Dimensions in MM

I.R.: 35A at 250VAC (100mA to 1A)
 100A at 250VAC (1.25A to 3.5A),
 200A at 250VAC (4A to 10A),
 10kA at 250VAC (12A to 30A)
Voltage: 250VAC,
Characteristic: Slow Acting
Fuse Classification: (Fusetron)
Pack Size (box): 10
Holders: Clips (p113), Block (p133), Panel (p120),
 Carrier (p127-128), Inline (p122),
 Disconnecter (p140)
Recommended Upgrade: FNQ Series (p73)
Approvals:

Part Number	Ampere Rating
FNQ.100	100mA
FNQ.125	125mA
FNQ.150	150mA
FNQ.187	187mA
FNQ.200	200mA
FNQ.250	250mA
FNQ.300	300mA
FNQ.400	400mA
FNQ.500	500mA
FNQ.600	600mA
FNQ.800	800mA
FNQ001	1A
FNQ1.125	1.125A
FNQ1.25	1.25A
FNQ01.5	1.5A
FNQ01.6	1.6A
FNQ002	2A
FNQ2.25	2.25A
FNQ02.5	2.5A
FNQ003	3A
FNQ03.2	3.2A
FNQ03.5	3.5A
FNQ004	4A
FNQ04.5	4.5A
FNQ005	5A
FNQ05.6	5.6A
FNQ006	6A
FNQ6.25	6.25A
FNQ007	7A
FNQ008	8A
FNQ009	9A
FNQ010	10A
FNQ012	12A
FNQ014	14A
FNQ015	15A
FNQ020	20A
FNQ025	25A
FNQ030	30A



Dimensions in MM

I.R.: 10kA at 500VAC
Voltage: 500VAC
Characteristic: Slow Acting
Fuse Classification: (Tron)
Pack Size (box): 10
Holders: Clips (p113), Block (p133), Panel (p120),
 Carrier (p127-128), Inline (p122), Disconnecter (p140)
Approvals: (except 125mA)



Recommended Upgrade
 FNM replaced by FNQ

Part Number	Ampere Rating
FNQR.250	250mA
FNQR.300	300mA
FNQR.400	400mA
FNQR.500	500mA
FNQR.600	600mA
FNQR.750	750mA
FNQR.800	800mA
FNQR001	1A
FNQR1.125	1.125A
FNQR1.25	1.25A
FNQR01.3	1.3A
FNQR01.4	1.4A
FNQR01.5	1.5A
FNQR01.6	1.6A
FNQR01.8	1.8A
FNQR002	2A
FNQR2.25	2.25A
FNQR02.5	2.5A
FNQR02.8	2.8A
FNQR003	3A
FNQR03.2	3.2A
FNQR03.5	3.5A
FNQR004	4A
FNQR04.5	4.5A
FNQR005	5A
FNQR05.6	5.6A
FNQR006	6A
FNQR6.25	6.25A
FNQR007	7A
FNQR07.5	7.5A
FNQR008	8A
FNQR009	9A
FNQR010	10A
FNQR012	12A
FNQR015	15A
FNQR17.5	17.5A
FNQR020	20A
FNQR025	25A
FNQR030	30A



I.R.: 200kA at 600VAC (all ratings),
20kA at 300VDC (15A & 20A)
Voltage: 600VAC (all ratings) / 300VDC (15A & 20A)
Characteristic: Slow Acting
Pack Size (box): 10
Holders: Clips (p113), Block (p133), Panel (p120),
Carrier (p127-128), Inline (p122),
Disconnecter (p140)
Fuse Classification: Class CC (CC-Tron)
Notes: Class CC fuses have basic midjet dimensions
with a rejection feature added to one cap.
Approvals: (except 250mA)

Part Number	Ampere Rating
LPCC.500	500mA
LPCC.600	600mA
LPCC.800	800mA
LPCC001	1A
LPCC1.125	1.125A
LPCC1.25	1.25A
LPCC01.4	1.4A
LPCC01.5	1.5A
LPCC01.6	1.6A
LPCC01.8	1.8A
LPCC002	2A
LPCC2.25	2.25A
LPCC02.5	2.5A
LPCC02.8	2.8A
LPCC003	3A
LPCC03.2	3.2A
LPCC03.5	3.5A
LPCC004	4A
LPCC04.5	4.5A
LPCC005	5A
LPCC05.6	5.6A
LPCC006	6A
LPCC6.25	6.25A
LPCC007	7A
LPCC07.5	7.5A
LPCC008	8A
LPCC009	9A
LPCC010	10A
LPCC012	12A
LPCC015	15A
LPCC020	20A
LPCC025	25A
LPCC030	30A



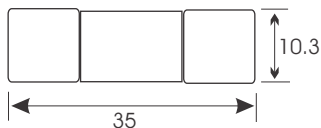
Dimensions in MM

I.R.: 200kA at 600VAC, 20kA at rated VDC
Voltage: 600VAC (all ratings)
300VDC (500mA to 2.8A)
150VDC (3A to 15A)
300VDC (20A to 30A)
Characteristic: Slow Acting
Pack Size (box): 10
Holders: Clips (p113), Block (p133), Panel (p120),
Carrier (p127-128), Inline (p122), Disconnecter (p140)
Fuse Classification: Class CC (Low-Peak)
Notes: Class CC fuses have basic midjet dimensions
with a rejection feature added to one cap.
Approvals: (only 20 to 30A)

BBS SERIES

EAT·N Bussmann

Part Number	Ampere Rating	Part Number	Ampere Rating
BBS.100	100mA	BBS003	3A
BBS.200	200mA	BBS004	4A
BBS.250	250mA	BBS005	5A
BBS.400	400mA	BBS006	6A
BBS.500	500mA	BBS007	7A
BBS.600	600mA	BBS008	8A
BBS.750	750mA	BBS010	10A
BBS.800	800mA	BBS012	12A
BBS001	1A	BBS015	15A
BBS01.5	1.5A	BBS020	20A
BBS01.8	1.8A	BBS025	25A
BBS002	2A	BBS030	30A



Dimensions in MM

I.R.: 10kA at rated voltage (100mA to 10A)

Voltage: 600VAC (100mA to 6A), 250VAC (7A to 10A), 48VAC (12A to 30A)

Characteristic: Fast Acting

Pack Size (box): 10

Approvals: CE (UL) (excludes 12A-30A)

DMM / MMF SERIES

EAT·N Bussmann



These fuses are specially engineered and tested to provide best protection and high breaking capacity in DMI (Digital Multimeter and Instrument) applications.

Part Number	Ampere Rating	I.R at Voltage	"A" (mm)
DMM.440	440mA	10kA	34.9
MMF.500	500mA	30kA	38.1
MMF001	1A	30kA	38.1
MMF002	2A	30kA	38.1
MMF004	4A	30kA	38.1
MMF006	6A	30kA	38.1
MMF008	8A	30kA	38.1
MMF010	10A	30kA	38.1
DMM011	11A	20kA	38.1
MMF012	12A	30kA	38.1
MMF015	15A	30kA	38.1
MMF016	16A	30kA	38.1
MMF020	20A	30kA	38.1



DMM.440



DMM011



MMF010



Dimensions in MM

Voltage: 1000VAC / 1000VDC

Characteristic: Type gR, Very Fast Acting

Pack Size (box): 1, 10, 100

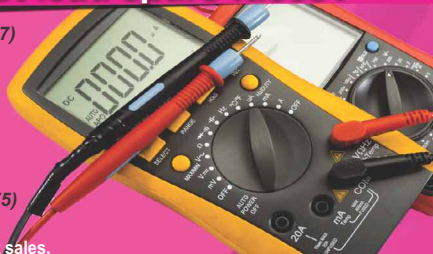
Holders: Clips (p113)

Approvals: (440mA & 11A only). UL Recognised E19180 (2A - 20A). IEC 60269-4, (UL) UL 248-1, UL 248-13

Looking for multimeter or test lead spare fuses?

- Various Brands # 3AB-FF.500/1000V : 500mA 1000V (p37)
- Various Brands # 3AB-FF.002/1000V : 2A 1000V (p37)
- Various Brands # 8AB010/600V : 10A 600V (p20)
- Fluke 871173 = # M205C.630 : 630mA 250V (p15)
- Fluke 871207 = # BBS001 : 1A 600V (p75)
- Fluke 871202 = # BBS003 : 3A 600V (p75)
- Fluke 892583 = # KTK015 : 15A 600V (p71)
- Fluke 643684 = # KTK020 : 20A 600V (p71)
- Fluke 203414 & 943121 = # DMM.440 : 440mA 1000V (p75)
- Fluke 203406 & 803293 = # DMM011 : 11A 1000V (p75)

Other multi meter brand spare fuses also available, please contact sales.



Swe-Check ✓

Email: sales@swe-check.com.au
Phone: (+61) 03 9521 6133

SERVICE FUSE

Part Number	Factory Reference	Ampere Rating	Voltage (VAC)	I.R. at Rated VAC
LA-NB002	LA2	2A	240V	16.5kA
LA-NB005	LA5	5A	240V	16.5kA

LC-NB002	LC2	2A	240V	16.5kA
LC-NB005	LC5	5A	240V	16.5kA
LC-NB008	LC8	8A	240V	16.5kA
LC-NB010	LC10	10A	240V	16.5kA
LC-NB015	LC15	15A	240V	16.5kA
LC-NB020	LC20	20A	240V	16.5kA

MD-NB002	MD2	2A	415V	80kA*
MD-NB004	MD4	4A	415V	80kA*
MD-NB006	MD6	6A	415V	80kA*
MD-NB008	MD8	8A	415V	80kA*
MD-NB010	MD10	10A	415V	80kA*
MD-NB016	MD16	16A	415V	80kA*
MD-NB020	MD20	20A	415V	80kA*
MD-NB025	MD25	25A	415V	80kA*
MD-NB032	MD32	32A	415V	80kA*

I.R.: *Also rated 40kA at 250VDC

Characteristic: Type gG, Fast Acting

Pack Size (box): 10

Approvals (LA/LC/LD): BS1361

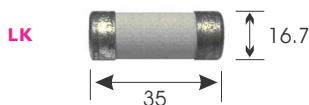
Approvals (MD): BS88-1, IEC60269-1



Dimensions in MM

SERVICE FUSE

Part Number	Factory Reference	Ampere Rating	Voltage (VAC)	I.R. at Rated VAC
LK-NB035	LK35	35A	240V	16.5kA
LK-NB040	LK40	40A	240V	16.5kA
LK-NB045	LK45	45A	240V	16.5kA



Characteristic: Type gG, Fast Acting

Pack Size (box): 10

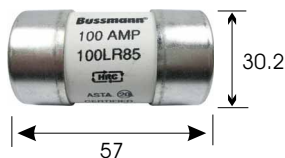
Approvals (LK): BS88 (35A-40A), BS1361, ASTA(45A)

SERVICE FUSE

Part Number	Previous Code	Ampere Rating	Voltage (VAC)	I.R. at Rated VAC
5KR85	ME-NB005	5A	415V	33kA
10KR85	ME-NB010	10A	415V	33kA
15KR85	ME-NB015	15A	415V	33kA
20KR85	ME-NB020	20A	415V	33kA
25KR85	ME-NB025	25A	415V	33kA
30KR85	ME-NB030	30A	415V	33kA
40KR85	ME-NB040	40A	415V	33kA
45KR85	ME-NB045	45A	415V	33kA
50KR85	ME-NB050	50A	415V	33kA
60KR85	ME-NB060	60A	415V	33kA
80KR85	ME-NB080	80A	415V	33kA
100KR85	ME-NB100	100A	415V	33kA



30LR85	MF-NB030	30A	415V	33kA
40LR85	MF-NB040	40A	415V	33kA
50LR85	MF-NB050	50A	415V	33kA
60LR85	MF-NB060	60A	415V	33kA
70LR85	MF-NB070	70A	415V	33kA
80LR85	MF-NB080	80A	415V	33kA
100LR85	MF-NB100	100A	415V	33kA



Characteristic: Type gG, Fast Acting

Pack Size (box): 10, 20

Approvals: BS1361, IEC 60269-3, ASTA

Holders (22 x 58mm): HSB22xx-xx

xx-xx = FW (Front Wired)

xx-xx = BW (Back Wired)

xx-xx = CL (Clear Colour)

xx-xx = (Black Colour)

Front (FW) or Back Wired (BW).

Black or Clear finish (CL).

Holders (30 x 58mm): HSB30xx-xx

xx-xx = FW (Front Wired)

xx-xx = BW (Back Wired)

xx-xx = CL (Clear Colour)

xx-xx = (Black Colour)

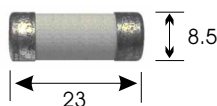
Front (FW) or Back Wired (BW).

Black or Clear finish (CL).

DOMESTIC FRENCH FUSE LINKS

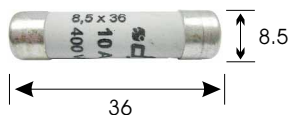


Part Number	Factory Reference	Ampere Rating	Voltage (VAC)	I.R. at Rated VAC
114-NB002	400012	2A	230V	6kA
114-NB004	400014	4A	230V	6kA
114-NB006	400016	6A	230V	6kA
114-NB010	400018	10A	230V	6kA



Dimensions in MM

Part Number	Factory Reference	Ampere Rating	Voltage (VAC)	I.R. at Rated VAC
936-NB002	400038	2A	400V	20kA
936-NB004	400040	4A	400V	20kA
936-NB006	400042	6A	400V	20kA
936-NB010	400044	10A	400V	20kA
936-NB016	400046	16A	400V	20kA
936-NB020	400048	20A	400V	20kA
936-NB025	400050	25A	400V	20kA
936-NB032	400052	32A	400V	20kA



Dimensions in MM

Characteristic: Type gG, Fast Acting

Pack Size (box): 10, 100

Approvals: EN / IEC 60269

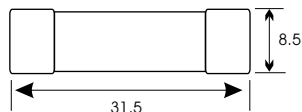
8.5 X 31.5MM CARTRIDGE FUSES

EATON Bussmann

Fast Acting Type gG/gL

Part Number	Part Number	Ampere Rating
C-NB.500	—	500mA
C-NB001	C-SB001	1A
C-NB002	C-SB002	2A
C-NB004	C-SB004	4A
C-NB006	C-SB006	6A
C-NB008	C-SB008	8A
C-NB010	C-SB010	10A
C-NB012	C-SB012	12A
C-NB016	C-SB016	16A
C-NB020	C-SB020	20A
C-NB025	C-SB025	25A

Slow Acting Type aM



Dimensions in MM

I.R.: 20kA at 400VAC

Voltage: 400VAC

Pack Size (box): 10

Holders: Din Rail Mount (please call)

Approvals: IEC

10.3 X 38.1MM CARTRIDGE FUSES

EATON Bussmann

Fast Acting Type gG/gL

Part Number	Part Number	Ampere Rating
CH10-NB.500	CH10-SB.500	500mA
CH10-NB001	CH10-SB001	1A
CH10-NB002	CH10-SB002	2A
CH10-NB004	CH10-SB004	4A
CH10-NB006	CH10-SB006	6A
CH10-NB008	CH10-SB008	8A
CH10-NB010	CH10-SB010	10A
CH10-NB012	CH10-SB012	12A
CH10-NB016	CH10-SB016	16A
CH10-NB020	CH10-SB020	20A
CH10-NB025	CH10-SB025	25A
CH10-NB032	CH10-SB032	32A

Slow Acting Type aM



Dimensions in MM

I.R.: 120kA at rated voltage (except CH10-SB032)

100kA at 400VAC (CH10-SB032)

Voltage (gG): 500VAC (500mA to 25A)

400VAC (32A)

Voltage (aM): 500VAC (500mA to 16A)

400VAC (20A to 32A)

Pack Size (box): 10

Holders: Clips (p113), Blocks (p133), Panel (p120)

Carrier (p127-128), Inline (p122), Disconnecter (p140)

Approvals: IEC

NEUTRAL LINKS CARTRIDGE TYPE

EATON Bussmann

Neutral links can be used in a fuse holder if circuit protection is NOT required.

Part Number	Replaces Fuse	Link Dimensions
43097	M205	5 x 20mm
43099	3AG / 3AB	6.35 x 31.75mm
CH10-NTRL	10 x 38mm	10.3 x 38.1mm
CH14-NTRL	14 x 51mm	14.3 x 51mm
CH22-NTRL	22 x 58mm	22.2 x 58mm

Warning:

Neutral links do NOT provide circuit protection. A fuse must be used if you require circuit protection.



14.3 x 51MM CARTRIDGE FUSES

EATON Bussmann

Fast Acting Type gG/gL Part Number

Part Number	Part Number	Ampere Rating
–	CH14-SB.250	250mA
–	CH14-SB.500	500mA
CH14-NB001	CH14-SB001	1A
CH14-NB002	CH14-SB002	2A
CH14-NB004	CH14-SB004	4A
CH14-NB006	CH14-SB006	6A
CH14-NB008	CH14-SB008	8A
CH14-NB010	CH14-SB010	10A
CH14-NB012	CH14-SB012	12A
CH14-NB016	CH14-SB016	16A
CH14-NB020	CH14-SB020	20A
CH14-NB025	CH14-SB025	25A
CH14-NB032	CH14-SB032	32A
CH14-NB040	CH14-SB040	40A
CH14-NB045*	CH14-SB045	45A
CH14-NB050	CH14-SB050	50A
CH14-NB055*	–	55A

Slow Acting Type aM

Part Number	Part Number	Ampere Rating
–	CH14-SB.250	250mA
–	CH14-SB.500	500mA
CH14-NB001	CH14-SB001	1A
CH14-NB002	CH14-SB002	2A
CH14-NB004	CH14-SB004	4A
CH14-NB006	CH14-SB006	6A
CH14-NB008	CH14-SB008	8A
CH14-NB010	CH14-SB010	10A
CH14-NB012	CH14-SB012	12A
CH14-NB016	CH14-SB016	16A
CH14-NB020	CH14-SB020	20A
CH14-NB025	CH14-SB025	25A
CH14-NB032	CH14-SB032	32A
CH14-NB040	CH14-SB040	40A
CH14-NB045*	CH14-SB045	45A
CH14-NB050	CH14-SB050	50A
CH14-NB055*	–	55A



Striker pin option.



Dimensions in MM

Fast Acting Type gG/gL

I.R.: 100kA at 690VAC (1A to 25A)
120kA at 500VAC (32A & 40A)
120kA at 400VAC (50A)
20kA at 440VAC (45A & 55A)
Voltage: 690VAC (1A to 25A)
500VAC (32A, 40A & 50A)
440VAC (45A & 55A)

Slow Acting Type aM

I.R.: 80kA at 690VAC (250mA to 25A)
120kA at 690VAC (32A)
120kA at 400VAC (40 to 50A)
Voltage: 690VAC (250mA to 25A)
500VAC (32A to 45A)
400VAC (50A)

Pack Size (box): 10

Holders: Clips (Call), Carriers (p127), Blocks (p133)

Option: Ratings 1A to 50A also available with inbuilt striker pin. Add 'P' to part number. Contact sales for further information.

Notes: *Contact sales for information on these ratings.

Approvals: IEC

22.2 x 58MM CARTRIDGE FUSES

EATON Bussmann

Fast Acting Type gG/gL Part Number

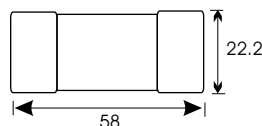
Part Number	Part Number	Ampere Rating
CH22-NB002	CH22-SB002	2A
CH22-NB004	CH22-SB004	4A
CH22-NB006	CH22-SB006	6A
CH22-NB008	CH22-SB008	8A
CH22-NB010	CH22-SB010	10A
CH22-NB012	CH22-SB012	12A
CH22-NB016	CH22-SB016	16A
CH22-NB020	CH22-SB020	20A
CH22-NB025	CH22-SB025	25A
CH22-NB032	CH22-SB032	32A
CH22-NB040	CH22-SB040	40A
CH22-NB050	CH22-SB050	50A
CH22-NB063	CH22-SB063	63A
CH22-NB080	CH22-SB080	80A
CH22-NB100	CH22-SB100	100A
CH22-NB125*	CH22-SB125*	125A

Slow Acting Type aM

Part Number	Part Number	Ampere Rating
CH22-NB002	CH22-SB002	2A
CH22-NB004	CH22-SB004	4A
CH22-NB006	CH22-SB006	6A
CH22-NB008	CH22-SB008	8A
CH22-NB010	CH22-SB010	10A
CH22-NB012	CH22-SB012	12A
CH22-NB016	CH22-SB016	16A
CH22-NB020	CH22-SB020	20A
CH22-NB025	CH22-SB025	25A
CH22-NB032	CH22-SB032	32A
CH22-NB040	CH22-SB040	40A
CH22-NB050	CH22-SB050	50A
CH22-NB063	CH22-SB063	63A
CH22-NB080	CH22-SB080	80A
CH22-NB100	CH22-SB100	100A
CH22-NB125*	CH22-SB125*	125A



Striker pin option.



Dimensions in MM

Fast Acting Type gG/gL

I.R.: 80kA at 690VAC (2A to 63A)
120kA at 500VAC (80A to 100A)
120kA at 400VAC (125A)
Voltage: 690VAC (2A to 63A)
500VAC (80A to 100A)
400VAC (125A)

Slow Acting Type aM

I.R.: 80kA at 690VAC (2A to 63A)
120kA at 500VAC (80A to 100A)
120kA at 400VAC (125A)
Voltage: 690VAC (2A to 63A)
500VAC (80A to 100A)
400VAC (125A)

Pack Size (box): 10

Holders: Carriers (p127), Blocks (p133)

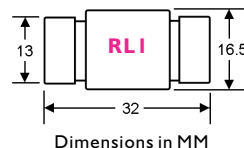
Option: Ratings 4A to 125A also available with inbuilt striker pin. Add 'P' to part number. Contact sales for further information.

Notes: *Overrating fuses

Approvals: IEC

SCREW BASE FUSE RL1

Part Number	Factory Ref.	Ampere Rating	Indicator Colour
RL1002	RL1-2	2A	Pink
RL1004	RL1-4	4A	Brown
RL1006	RL1-6	6A	Green
RL1010	RL1-10	10A	Red
RL1015	RL1-15	15A	Grey



I.R.: 25kA at 380VAC

Voltage: 380VAC

Characteristic: Type gL, gG, Fast Acting

Pack Size (bag): 2, 10, 100

Features: Blown fuse visual indicator.

Approvals: GB13539, IEC60269 and VDE0636. (CCC)

NEOZED FUSES - EUROPEAN STANDARD



D0 fuse-links are used as the most reliable protection of electrical installation, control and signal circuits against overload and short-circuit currents. The whole system D0 contains a complete range of three physical sizes D01, D02 and D03 fuse-links, standard ceramic and new plastic bases, fuse disconnectors and all necessary accessories. The system D0 is intended to be used in residential, business and similar buildings. All fuse-links have blown-fuse indicators which are visible through the screw cap when mounted.

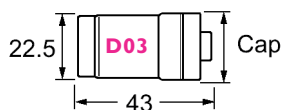
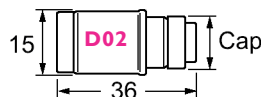
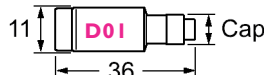


Feature: Equipped with colour coded indicator in bottom cap for visual indication of blown fuse.

Part Number	Ampere Rating	Body Size	Thread Type	Cap Diameter	Indicator Colour
NEO-NB002	2A	D01	E14	7.3mm	Pink
NEO-NB004	4A	D01	E14	7.3mm	Brown
NEO-NB006	6A	D01	E14	7.3mm	Green
NEO-NB010	10A	D01	E14	8.5mm	Red
NEO-NB016	16A	D01	E14	9.7mm	Grey

NEO-NB020	20A	D02	E18	10.9mm	Blue
NEO-NB025	25A	D02	E18	12.1mm	Yellow
NEO-NB035	35A	D02	E18	13.3mm	Black
NEO-NB050	50A	D02	E18	14.5mm	White
NEO-NB063	63A	D02	E18	15.9mm	Copper

NEO-NB080	80A	D03	M30x2	21.4mm	Silver
NEO-NB100	100A	D03	M30x2	21.4mm	Red



Dimensions in MM

I.R.: 50kA at 400VAC

8kA at 250VDC

Voltage: 400VAC / 250VDC

Characteristic: Type gL, gG, Fast Acting

Pack Size (box): 10

Holders: Please contact sales

Features: Blown fuse visual indicator.

Approvals: DIN IEC



Alternative Versions: Semiconductor Type gR, very fast acting fuses are also available in Neoazed body sizes D01 & D02, see page 63 for further information.

Slow Acting TDZ Part Number	Fast Acting DZ Part Number	Ampere Rating	Cap Dia.	Indicator Colour
B16-SB.500	--	500mA	6mm	White ○
B16-SB001	--	1A	6mm	Red ●
B16-SB01.6	--	1.6A	6mm	Grey ●
B16-SB002	B16-FB002	2A	6mm	Pink ●
B16-SB004	B16-FB004	4A	6mm	Brown ●
B16-SB006	B16-FB006	6A	6mm	Green ●
B16-SB010	B16-FB010	10A	8mm	Red ●
B16-SB016	B16-FB016	16A	10mm	Grey ●
B16-SB020	B16-FB020	20A	12mm	Blue ●
B16-SB025	B16-FB025	25A	14mm	Yellow ●

Body Size DI
Base Thread E16



Slow Acting TDZ Part Number	Fast Acting DZ Part Number	Ampere Rating	Cap Dia.	Indicator Colour
B27-SB.500	--	500mA	6mm	White ○
B27-SB001	--	1A	6mm	Red ●
B27-SB01.6	--	1.6A	6mm	Grey ●
B27-SB002	B27-FB002	2A	6mm	Pink ●
B27-SB004	B27-FB004	4A	6mm	Brown ●
B27-SB006	B27-FB006	6A	6mm	Green ●
B27-SB010	B27-FB010	10A	8mm	Red ●
B27-SB016	B27-FB016	16A	10mm	Grey ●
B27-SB020	B27-FB020	20A	12mm	Blue ●
B27-SB025	B27-FB025	25A	14mm	Yellow ●

Body Size DII
Base Thread E27



Slow Acting TDZ Part Number	Fast Acting DZ Part Number	Ampere Rating	Cap Dia.	Indicator Colour
B33-SB035	B33-FB035	35A	16mm	Black ●
B33-SB050	B33-FB050	50A	18mm	White ○
B33-SB063	B33-FB063	63A	20mm	Copper ●

Body Size DIII
Base Thread E33



Slow Acting TDZ Part Number	Ampere Rating	Body Size	Pin (A) Dia.	Base (B) Dia.	Indicator Colour
DIV-SB080	80A	DIV	5mm	33mm	Silver ○
DIV-SB100	100A	DIV	7mm	33mm	Red ●
DV-SB125	125A	DV	5mm	46mm	Yellow ●
DV-SB160	160A	DV	7mm	46mm	Copper ●
DV-SB200	200A	DV	9mm	46mm	Blue ●

Body Size DIV / Base Size R1 1/4"
Body Size DV / Base Size R2"



Dimensions in MM

I.R.: 50kA at 500VAC, 8kA at 400VDC

Voltage: 500VAC / 400VDC

Pack Size (box): 10

Holders: Bases (p132)

Features: Blown fuse visual indicator.

Notes: In accordance with the development of standards, TDZ time-current characteristics were uniformed with gG time-current characteristic according to IEC 60269-2 and VDE 0636-301, so now both characteristics are unified and their meaning stays the same - "slow" means TDZ and gG at the same time. DZ is fast acting version.

Additional Bottle Fuse Ranges: Semiconductor Type gR (page 63). For other types ie. DIII 690VAC/600VDC (gG), DIII 750VAC (gF), DIII 1200VAC (gF), please contact sales for information.

Approvals: IEC

500VAC gG

Part Number	Ampere Rating	Body Size
00C-NB002	2A	000 / 00C
00C-NB004	4A	000 / 00C
00C-NB006	6A	000 / 00C
00C-NB010	10A	000 / 00C
00C-NB016	16A	000 / 00C
00C-NB020	20A	000 / 00C
00C-NB025	25A	000 / 00C
00C-NB032	32A	000 / 00C
00C-NB035	35A	000 / 00C
00C-NB040	40A	000 / 00C
00C-NB050	50A	000 / 00C
00C-NB063	63A	000 / 00C
00C-NB080	80A	000 / 00C
00C-NB100	100A	000 / 00C
00C-NB125	125A	000 / 00C
00C-NB160*	160A*	000 / 00C
00-NB125	125A	00
00-NB160	160A	00



690VAC gG

Part Number	Ampere Rating	Body Size
00C-GG002	2A	000 / 00C
00C-GG004	4A	000 / 00C
00C-GG006	6A	000 / 00C
00C-GG010	10A	000 / 00C
00C-GG016	16A	000 / 00C
00C-GG020	20A	000 / 00C
00C-GG025	25A	000 / 00C
00C-GG032	32A	000 / 00C
00C-GG035	35A	000 / 00C
00C-GG040	40A	000 / 00C
00C-GG050	50A	000 / 00C
00C-GG063	63A	000 / 00C
00-GG063	63A	00
00-GG080	80A	00
00-GG100	100A	00
00-GG125	125A	00
00-GG160	160A*	00

I.R. 500V: 120kA at 500VAC (Type gG/gL)

I.R. 690V: 100kA at 690VAC (Type gG/gL/aM)

I.R. 660V: 100kA at 690VAC (Type gG/gL/aM)*

Voltage: VAC as rated. VDC call for confirmation.

*Special range 400V only.

Pack Size (box): 3

Holders: Bases (p.138), Disconnect Switches (p.142-143)

Accessories: NH-Extractor (p.150)

Approvals: IEC60269, DIN 43620, VDE 0636

Notes: gL (general application-normal acting).
aM (motor start-delayed action).

Features: 'Flag' indicator located on top plate of fuse is standard.

New dual indicator versions also include center body 'visual' indicator.

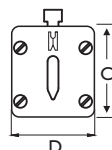
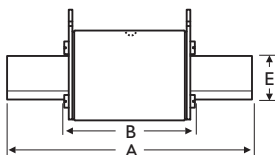
Optional NH Fuse Ranges: Isolated gripping lugs. Mining & marine.

690VAC aM

Part Number	Ampere Rating	Body Size
00C-AM002	2A	000 / 00C
00C-AM004	4A	000 / 00C
00C-AM006	6A	000 / 00C
00C-AM010	10A	000 / 00C
00C-AM016	16A	000 / 00C
00C-AM020	20A	000 / 00C
00C-AM025	25A	000 / 00C
00C-AM032	32A	000 / 00C
00C-AM035	35A	000 / 00C
00C-AM040	40A	000 / 00C
00C-AM050	50A	000 / 00C
00C-AM063	63A	000 / 00C
00-AM080	80A	00
00-AM100	100A	00
00-AM125	125A	00
00-AM160	160A	00

Dimensions in MM

Size	A	B	C	D	E
00C	79	53	52	21	15
00	79	53	56	28	15



RELATED PRODUCTS:



Fuse Bases
(see p.138)



Fuse Switch Disconnectors
(see p.142-143)



Fuse Extractor
(see p.150)

DIN NH-TYPE FUSES SIZE 0 (500V & 690V)

ETI

500VAC gG	690VAC aM	Ampere Rating	Body Size
Part Number	Part Number		
0-NB035	0-AM035	35A	0
0-NB040	0-AM040	40A	0
0-NB050	0-AM050	50A	0
0-NB063	0-AM063	63A	0
0-NB080	0-AM080	80A	0
0-NB100	0-AM100	100A	0
0-NB125	0-AM125	125A	0
0-NB160	0-AM160	160A	0
0-NB200	—	200A	0

I.R. 500V: 120kA at 500VAC (Type gG/gL/aM)

I.R. 690V: 100kA at 690VAC (Type gG/gL/aM)

Pack Size (box): 3

Accessories: NH-Extractor (p150)

Approvals: IEC60269-2, DIN 43620, VDE 0636

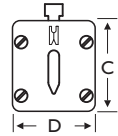
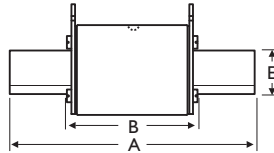
Notes: gL (general application-normal acting).

aM (motor start-delayed action).

Features: 'Flag' indicator located on top plate.

Dimensions in MM

Size	A	B	C	D	E
0	125	68	56	28	15



DIN NH-TYPE FUSES SIZE 1C / 1 (500V & 690V)

ETI

500VAC gG	Ampere Rating	Body Size
Part Number		
1C-NB035	35A	1C
1C-NB040	40A	1C
1C-NB050	50A	1C
1C-NB063	63A	1C
1C-NB080	80A	1C
1C-NB100	100A	1C
1C-NB125	125A	1C
1C-NB160	160A	1C
1-NB200	200A	I
1-NB224	224A	I
1-NB250	250A	I
1-NB315	315A	I
1-NB355	355A	I

690VAC gG	Ampere Rating	Body Size
Part Number		
1C-GG035	35A	1C
1C-GG040	40A	1C
1C-GG050	50A	1C
1C-GG063	63A	1C
1C-GG080	80A	1C
1C-GG100	100A	1C
1C-GG125	125A	1C
1-GG160	160A	I
1-GG200	200A	I
1-GG224	224A	I
1-GG250	250A	I

690VAC aM	Ampere Rating	Body Size
Part Number		
1-AM035	35A	I
1-AM040	40A	I
1-AM050	50A	I
1-AM063	63A	I
1-AM080	80A	I
1-AM100	100A	I
1-AM125	125A	I
1-AM160	160A	I
1-AM200	200A	I
1-AM224	224A	I
1-AM250	250A	I

I.R. 500V: 120kA at 500VAC (Type gG/gL/aM) 35A - 250A

I.R. 440V: 120kA at 440VAC (Type gG/gL) 315A - 355A

I.R. 690V: 100kA at 690VAC (Type gG/gL/aM) 35A - 250A

Voltage: VAC as rated. VDC call for confirmation.

Pack Size (box): 3

Holders: Bases (p139), Disconnect Switches (p142-143)

Accessories: NH-Extractor (p150)

Notes: Contact sales for ratings below 35A (1C series).

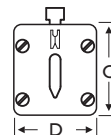
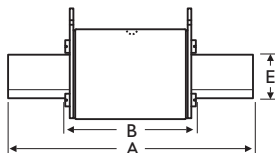
Approvals: IEC60269-2, DIN 43620, VDE 0636

Notes: gL (general application-normal acting). aM (motor start-delayed action).

Features: 'Flag' indicator located on top plate of fuse is standard.

Dimensions in MM

Size	A	B	C	D	E
1C	135	68	61	28	15
I	135	72	65	46	20



INDUSTRIAL

DIN NH-TYPE FUSES SIZE 2C / 2 (500V & 690V)



500VAC gG	Ampere Rating	Body Size
Part Number	Rating	Size
2C-NB063	63A	2C
2C-NB080	80A	2C
2C-NB100	100A	2C
2C-NB125	125A	2C
2C-NB160	160A	2C
2C-NB200	200A	2C
2C-NB224	224A	2C
2C-NB250	250A	2C
2-NB300	300A	2
2-NB315	315A	2
2-NB355	355A	2
2-NB400	400A	2
2-NB425	425A	2
2-NB450	450A	2
2-NB500	500A*	2

690VAC gG	Ampere Rating	Body Size
Part Number	Rating	Size
2C-GG063	63A	2C
2C-GG080	80A	2C
2C-GG100	100A	2C
2C-GG125	125A	2C
2C-GG160	160A	2C
2C-GG200	200A	2C
2C-GG224	224A	2C
2C-GG250	250A	2C
2-GG300	300A	2
2-GG315	315A	2
—	355A	—
—	400A	—
—	500A	—

690VAC aM	Ampere Rating	Body Size
Part Number	Rating	Size
2C-AM063	63A	2C
2C-AM080	80A	2C
2C-AM100	100A	2C
2C-AM125	125A	2C
2C-AM160	160A	2C
2C-AM200	200A	2C
2C-AM224	224A	2C
2C-AM250	250A	2C
—	300A	—
2-AM315	315A	2
2-AM355	355A	2
2-AM400	400A	2
—	500A	—

I.R. 500V: 120kA at 500VAC (Type gG/gL)
I.R. 440V: 120kA at 440VAC (Type gG/gL)*
I.R. 690V: 100kA at 690VAC (Type gG/gL/aM)
Voltage: VAC as rated.

VDC call for confirmation.

Pack Size (box): 3

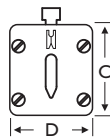
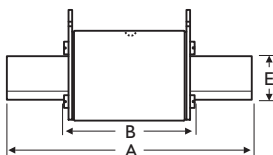
Holders: Bases (p139),

Disconnect Switches (p142-143)

Accessories: NH-Extractor (p150)

Approvals: IEC60269, DIN 43620, VDE 0636

Notes: gL (general application-normal acting).
aM (motor start-delayed action).



Dimensions in MM

Size	A	B	C	D	E
2C	150	72	73	46	20
2	150	72	73	54	25

DIN NH-TYPE FUSES SIZE 3C / 3 (500V & 690V)



500VAC gG	Ampere Rating	Body Size
Part Number	Rating	Size
3C-NB250	250A	3C
3C-NB315	315A	3C
3C-NB355	355A	3C
3C-NB400	400A	3C
3-NB425	425A	3
3-NB500	500A	3
3-NB560	560A	3
3-NB630	630A	3
3-NB800	800A*	3

690VAC gG	Ampere Rating	Body Size
Part Number	Rating	Size
3C-GG250	250A	3C
3C-GG315	315A	3C
3-GG355	355A	3
3-GG400	400A	3
3-GG425	425A	3
3-GG500	500A	3
—	560A	—
—	630A	—
—	800A	—

690VAC aM	Ampere Rating	Body Size
Part Number	Rating	Size
3-AM315	315A	3
3-AM355	355A	3
3-AM400	400A	3
3-AM425	425A	3
3-AM500	500A	3
—	560A	—
—	630A	—
—	800A	—

I.R. 500V: 120kA at 500VAC (Type gG/gL/aM)
I.R. 440V: 120kA at 440VAC (Type gG/gL)*
I.R. 690V: 100kA at 690VAC (Type gG/gL/aM)
Voltage: VAC as rated. VDC call for confirmation.

Pack Size (box): 3

Holders: Bases (p139), Disconnect Switches (p142-143)

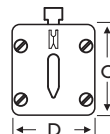
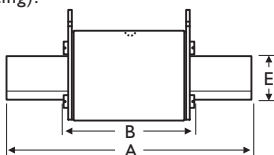
Accessories: NH-Extractor (p150)

Approvals: IEC60269, DIN 43620, VDE 0636

Notes: gL (general application-normal acting).
aM (motor start-delayed action).

Dimensions in MM

Size	A	B	C	D	E
3C	150	72	84	54	25
3	150	72	84	65	32



DIN NH-TYPE FUSES SIZE 4 / 4a (500V & 690V)



500VAC gG	Ampere Rating	Body Size
4-NB630	630A	4
4-NB800	800A	4
4-NB1000	1000A	4
4-NB1250	1250A	4

4A-NB630	630A	4a
4A-NB800	800A	4a
4A-NB1000	1000A	4a
4A-NB1250	1250A	4a
4A-NB1500	1500A	4a
4A-NB1600	1600A	4a

690VAC gG	Ampere Rating	Body Size
4-GG630	630	4
4-GG800	800	4
—	1000A	—
—	1250A	—

4A-GG630	630A	4a
4A-GG800	800A	4a
4A-GG1000	1000A	4a
4A-GG1250	1250A	4a

500VAC aM	Ampere Rating	Body Size
4-SB630	630	4
4-SB800	800	4
4-SB1000	1000	4
4-SB1250	1250	4

4A-SB630	630A	4a
4A-SB800	800A	4a
4A-SB1000	1000A	4a
4A-SB1250	1250A	4a

I.R. 500V: 120kA at 500VAC (Type gG/gL/aM).

I.R. 690V: 100kA at 690VAC (Type gG/gL).

Voltage: VAC as rated.

Voltage: VDC call for confirmation.

Pack Size (box): 3.

Holders: Bases (p139)

Disconnect Switches (contact sales).

Accessories: NH-Extractor (p150)

Notes: * Ratings also available in compact body.

Approvals: IEC60269, DIN 43620, VDE 0636

Notes: gL (general application-normal acting).
aM (motor start-delayed action).

Note: Size 4 has open slotted blades for bolted fixing (16mm x 32mm).

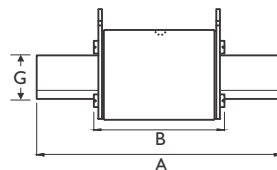
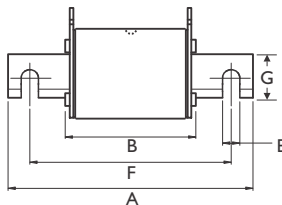
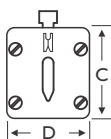
Features: 'Flag' indicator located on top plate of fuse is standard.



**Size 4
Slotted Blade**



**Size 4a
Full Blade**



Dimensions in MM

Size	Tag Type	A	B	C	D	E	F	G
4	Slotted	200	75	121	100	16	150	50
4a	Full Blade	200	99	121	95	-	-	50

NH SOLID LINKS - NON INSULATED



Part Number	Ampere Rating	Size	Tag	Dimensions in MM				
00-NTRL	160A	00	Blade	78.5	50	15	45	
1-NTRL	250A	1	Blade	135	68	20	50	
2-NTRL	400A	2	Blade	150	68	26	58	
3-NTRL	630A	3	Blade	150	68	32	70	



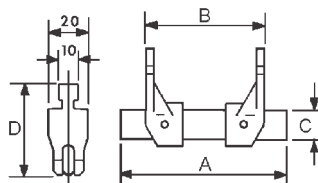
Voltage: 690VAC

Pack Size (box): 1

Options: Insulated version also available upon request.

Accessories: NH-Extractor (p150)

Note: Neutral links can be used in a fuse base if circuit protection is NOT required.



Part Number	Ampere Rating	Voltage Rating	Voltage Rating	Body Size
40477	6A	500VAC	250VDC	000/00C
40478	10A	500VAC	250VDC	000/00C
40479	16A	500VAC	250VDC	000/00C
40480	20A	500VAC	250VDC	000/00C
40481	25A	500VAC	250VDC	000/00C
40482	32A	500VAC	250VDC	000/00C
40483	35A	500VAC	250VDC	000/00C
40484	40A	500VAC	250VDC	000/00C
40485	50A	500VAC	250VDC	000/00C
40486	63A	500VAC	250VDC	000/00C
40487	80A	500VAC	250VDC	000/00C
40488	100A	500VAC	250VDC	000/00C
40513	125A	500VAC	250VDC	00
40514	160A	500VAC	250VDC	00

40428	16A	500VAC	440VDC	1C
40429	20A	500VAC	440VDC	1C
40430	25A	500VAC	440VDC	1C
40431	32A	500VAC	440VDC	1C
40432	35A	500VAC	440VDC	1C
40433	40A	500VAC	440VDC	1C
40434	50A	500VAC	440VDC	1C
40435	63A	500VAC	440VDC	1C
40436	80A	500VAC	440VDC	1C
40437	100A	500VAC	440VDC	1C
40438	125A	500VAC	440VDC	1C
40439	160A	500VAC	440VDC	1C
40440	200A	500VAC	440VDC	1
40441	224A	500VAC	440VDC	1
40442	250A	500VAC	440VDC	1

Part Number	Ampere Rating	Voltage Rating	Voltage Rating	Body Size
40386	35A	500VAC	440VDC	2C
40387	40A	500VAC	440VDC	2C
40388	50A	500VAC	440VDC	2C
40389	63A	500VAC	440VDC	2C
40390	80A	500VAC	440VDC	2C
40391	100A	500VAC	440VDC	2C
40392	125A	500VAC	440VDC	2C
40393	160A	500VAC	440VDC	2C
40394	200A	500VAC	440VDC	2C
40395	224A	500VAC	440VDC	2C
40396	250A	500VAC	440VDC	2C
40397	315A	500VAC	440VDC	2
40398	350A	500VAC	440VDC	2
40399	400A	500VAC	440VDC	2

40356	200A	500VAC	440VDC	3C
40357	224A	500VAC	440VDC	3C
40358	250A	500VAC	440VDC	3C
40359	315A	500VAC	440VDC	3C
40360	350A	500VAC	440VDC	3C
40361	400A	500VAC	440VDC	3C
40362	500A	500VAC	250VDC	3*
07137	500A	500VAC	440VDC	3
40363	630A	500VAC	250VDC	3*
07140	630A	500VAC	440VDC	3

34386	630A	500VAC	250VDC	4a
34387	800A	500VAC	250VDC	4a
34388	1000A	500VAC	250VDC	4a
34389	1250A	500VAC	250VDC	4a
34390	1600A	500VAC	250VDC	4a

I.R. 500VAC: 120kA Body Size 000-3 (Type gG/gL)

I.R. 500VAC: 100kA Body Size 4a (Type gG/gL)

I.R. 250VDC: 50kA Body Size 000-00 (Type gG/gL)

I.R. 440VDC: 50kA Body Size 1-2 (Type gG/gL)

I.R. 440VDC: 50kA Body Size 3 (Type gG/gL)

I.R. 250VDC: 50kA Body Size 3* (Type gG/gL)

I.R. 250VDC: 50kA Body Size 4a (Type gG/gL)

Voltage: VAC / VDC as listed above.

Pack Size (box): 3

Holders: Bases (p138), Disconnect Switches (p142-143)

Accessories: NH-Extractor (p150)

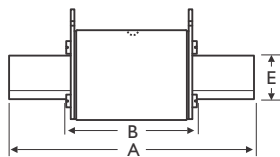
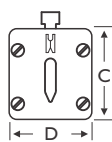
Approvals: IEC60269, DIN 43620, VDE 0636

Characteristic: gG/gL (general application-normal acting).

Options: aM (motor start-delayed action) also available.

Features: 'Flag' indicator located on top plate of fuse.

Approvals: IEC CE ENEC



Dimensions in MM

Size	A	B	C	D	E
00C	80	54	41	21	15
00	80	54	48	30	15
1C	137	73	48	30	15
1	137	75	48	48	20
2C	152	75	48	48	20
2	152	75	58	58	25
3C	152	75	58	58	25
3	151	74	72	72	32
4a	200	87	102	87	50



Fuse Bases
(see p.138)



Fuse Switch Disconnectors
(see p.142-143)



Fuse Extractor
(see p.150)

NON SERIES

250VAC / 125VDC

Series	Ampere
Part Number	Range
NONxxx	125mA to 600A

Ampere Ratings: 125mA, 500mA, 750mA, 800mA, 1A, 1.25A, 1.5A, 1.6A, 2A, 2.5A, 3A, 3.2A, 4A, 5A, 6A, 6.25A, 7A, 8A, 9A, 10A, 12A, 15A, 20A, 25A, 30A, 35A, 40A, 45A, 50A, 60A, 65A, 70A, 75A, 80A, 90A, 100A, 110A, 125A, 150A, 175A, 200A, 225A, 250A, 300A, 350A, 400A, 450A, 500A, 600A

Sample P/N: NON005 for 5A fuse



I.R.: 50kA at 250VAC (Class K5 - 125mA to 60A)
 10kA at (Class H - 65A to 600A)
 50kA at 125VDC (Class K5 - 125mA to 60A)
 10kA at 125VDC (Class H - 65A to 100A)
Voltage: 250VAC (all) / 125VDC (125mA to 100A)
Pack Size (box): 10 (125mA to 60A)
 5 (65A to 100A)
 1 (110A to 600A)
Holders: Blocks for fuses up to 30A (p133)
 Blocks for fuses above 35A contact sales.
Fuse Classification: Fast Acting (One Time)
Approvals: UL CE CE

NOS SERIES

600VAC

Series	Ampere
Part Number	Range
NOSxxx	1A to 600A

Ampere Ratings: 1A, 2A, 3A, 4A, 5A, 6A, 7A, 8A, 9A, 10A, 12A, 15A, 20A, 25A, 30A, 35A, 40A, 45A, 50A, 60A, 70A, 75A, 80A, 90A, 100A, 110A, 125A, 150A, 175A, 200A, 225A, 250A, 300A, 350A, 400A, 450A, 500A, 600A

Sample P/N: NOS030 for 30A fuse



I.R.: 50kA at 600VAC (Class K5 - 1A to 60A)
 10kA at (Class H - 70A to 600A)
Voltage: 600VAC
Pack Size (box): 10 (1A to 60A)
 5 (70A to 100A)
 1 (110A to 600A)
Holders: Blocks contact sales.
Fuse Classification: Fast Acting (One Time)
Approvals: UL CE CE

INDUSTRIAL

Fuse Series	Ampere Ratings	Diagram	Dimensions in MM	
			A	B
NON	125mA-30A	1	50.8	14.2
NON	35A-60A	1	76.3	20.6
NON	70A-100A	2	149.5	26.9
NON	110A-200A	2	181.2	39.7
NON	225A-400A	2	219.4	52.4
NON	450A-600A	2	263.9	65.8
NOS	1A-30A	1	127.1	20.6
NOS	35A-60A	1	139.8	26.9
NOS	70A-100A	2	200.8	34.1
NOS	110A-200A	2	244.8	46.8
NOS	225A-400A	2	295.6	65.8
NOS	450A-600A	2	340.1	79.6

Diagram 1.



Diagram 2.



KTN-R SERIES 250VAC / 250VDC

Series	Ampere
Part Number	Range
KTNRxxx	1A to 600A

Ratings: 1A, 2A, 3A, 4A, 5A, 6A, 8A, 10A, 12A, 15A, 20A, 25A, 30A, 35A, 40A, 45A, 50A, 60A, 70A, 75A, 80A, 90A, 100A, 110A, 125A, 150A, 175A, 200A, 225A, 250A, 300A, 350A, 400A, 450A, 500A, 600A

Sample P/N: KTNR005 for 5A fuse



I.R.: 200kA at 250VAC, 10kA at 250VDC

Voltage: 250VAC / 250VDC

Pack Size (box): 10 (1A to 60A)
5 (70A to 100A)
1 (110A to 600A)

Holders: Blocks for fuses up to 30A (p133)

Blocks for fuses above 35A contact sales.

Fuse Classification: Fast Acting (Limitron)

Approvals: UL CE

KTS-R SERIES 600VAC

Series	Ampere
Part Number	Range
KTSRxxx	1A to 600A

Ratings: 1A, 2A, 3A, 4A, 5A, 6A, 8A, 10A, 12A, 15A, 20A, 25A, 30A, 35A, 40A, 45A, 50A, 60A, 70A, 75A, 80A, 90A, 100A, 110A, 125A, 150A, 175A, 200A, 225A, 250A, 300A, 350A, 400A, 450A, 500A, 600A

Sample P/N: KTSR020 for 20A fuse



I.R.: 200kA at 600VAC

Voltage: 600VAC

Pack Size (box): 10 (1A to 60A)
1 (70A to 600A)

Holders: Blocks (please contact sales)

Fuse Classification: Fast Acting (Limitron)

Approvals: UL CE

Dimensions in MM

Fuse	Ampere Ratings	Diagram	A	B
KTNR	1A-30A	1	50.8	14.2
KTNR	35A-60A	1	76.3	20.6
KTNR	70A-100A	2	149.5	26.9
KTNR	110A-200A	2	181.2	39.7
KTNR	225A-400A	2	219.4	52.4
KTNR	450A-600A	2	263.9	65.8
KTSR	1A-30A	1	127.1	20.6
KTSR	35A-60A	1	139.8	26.9
KTSR	70A-100A	2	200.3	25.4
KTSR	110A-200A	2	244.8	38.1
KTSR	225A-400A	2	295.6	50.8
KTSR	450A-600A	2	340.1	63.6

Diagram 1

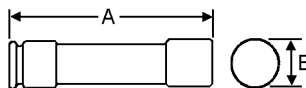
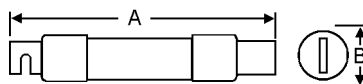


Diagram 2



FRN-R

600VAC / 250VDC

Series

Part Number	Ampere Range
FRNRxxx	100mA to 600A

Ampere Ratings: 100mA, 125mA, 150mA, 200mA, 250mA, 300mA, 400mA, 500mA, 600mA, 800mA, 1A, 1.125A, 1.25A, 1.4A, 1.5A, 1.6A, 1.8A, 2A, 2.25A, 2.5A, 2.8A, 3A, 3.2A, 3.5A, 4A, 4.5A, 5A, 5.6A, 6A, 6.25A, 7A, 7.5A, 8A, 9A, 10A, 12A, 15A, 17.5A, 20A, 25A, 30A, 35A, 40A, 45A, 50A, 60A, 70A, 75A, 80A, 85A, 90A, 100A, 110A, 125A, 150A, 175A, 200A, 225A, 250A, 300A, 350A, 400A, 450A, 500A, 600A

Sample P/N: FRNR005 for 5A fuse



I.R.: 200kA at 250VAC
20kA at rated VDC

Voltage: 250VAC
125VDC (100mA to 200A)
250VDC (225A to 600A)

Pack Size (box): 10 (100mA to 60A)
5 (70A to 100A)
1 (110A to 600A)

Holders: Blocks for fuses up to 30A (p133)
Fuse Classification: Slow Acting (Fusetron)
Option: Visual indicator version now available (8A to 60A only). Add 'ID' suffix to part number.
Approvals: UL CE

FRS-R SERIES

600VAC / 300VDC

Series

Part Number	Ampere Range
FRSRxxx	100mA to 600A

Ampere Ratings: 100mA, 125mA, 150mA, 200mA, 250mA, 300mA, 400mA, 500mA, 600mA, 800mA, 1A, 1.125A, 1.25A, 1.4A, 1.5A, 1.6A, 1.8A, 2A, 2.25A, 2.5A, 2.8A, 3A, 3.2A, 3.5A, 4A, 4.5A, 5A, 5.6A, 6A, 6.25A, 7A, 7.5A, 8A, 9A, 10A, 12A, 15A, 17.5A, 20A, 25A, 30A, 35A, 40A, 45A, 50A, 60A, 70A, 75A, 80A, 85A, 90A, 100A, 110A, 125A, 135A, 150A, 175A, 200A, 225A, 250A, 275A, 300A, 325A, 350A, 400A, 450A, 500A, 600A

Sample P/N: FRSR010 for 10A fuse



I.R. & Voltage:
200kA at 600VAC
20kA at 300VDC (100mA to 30A)
20kA at 250VDC (35A to 600A)

Pack Size (box): 10 (100mA to 60A)
1 (65A to 600A)

Holders: Blocks (please contact sales)
Fuse Classification: Slow Acting (Fusetron)
Option: Visual indicator version now available (6A to 60A only). Add 'ID' suffix to part number.
Approvals: UL CE

Dimensions in MM

Fuse	Ampere Ratings	Diagram	A	B
FRNR	100mA-30A	1	50.8	14.2
FRNR	35A-60A	1	76.3	20.6
FRNR	70A-100A	2	149.5	26.9
FRNR	110A-200A	2	181.2	39.7
FRNR	225A-400A	2	219.4	60.5
FRNR	450A-600A	2	263.9	73.2
FRSR	100mA-30A	1	127.1	20.6
FRSR	35A-60A	1	139.8	26.9
FRSR	70A-100A	2	200.3	34.1
FRSR	110A-200A	2	244.8	46.8
FRSR	225A-400A	2	295.6	65.8
FRSR	450A-600A	2	340.1	79.6

Diagram 1

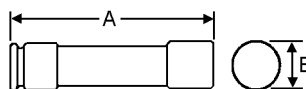
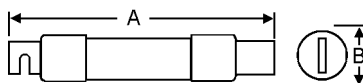


Diagram 2



JKS SERIES

600VAC

Series Part Number JK5xxx
Ampere Range 1A to 600A

Ampere Ratings: 1A, 2A, 3A, 4A, 5A, 6A, 8A, 10A, 12A, 15A, 20A, 25A, 30A, 35A, 40A, 45A, 50A, 60A, 70A, 80A, 90A, 100A, 110A, 125A, 150A, 175A, 200A, 225A, 250A, 350A, 400A, 450A, 500A, 600A.
Sample P/N: JKS010 for 10A fuse



I.R.: 200kA at 600VAC
Voltage: 600VAC
Holders: Blocks for fuses (p133, 135-136)
Fuse Classification: Fast Acting (Limitron)
Approvals: UL CE

DFJ SERIES

600VAC / 450VDC

Series Part Number DFJxxx
Ampere Range 1A to 600A

Ampere Ratings: 1A, 2A, 3A, 4A, 5A, 6A, 8A, 10A, 12A, 15A, 20A, 25A, 30A, 35A, 40A, 45A, 50A, 60A, 70A, 80A, 90A, 100A, 110A, 125A, 150A, 175A, 200A, 225A, 250A, 300A, 350A, 400A, 450A, 500A, 600A.
Sample P/N: DFJ250 for 250A fuse



I.R.: 200kA at 600VAC / 100kA at 450VDC
Voltage: 600VAC / 450VDC (15A to 600A)
Fuse Classification: Very Fast Acting
Holders: Blocks (p133, 135-136)

LPJ_SP SERIES

600VAC / 300VDC

Series Part Number LPJxxxSP
Ampere Range 1A to 600A

Ampere Ratings: 1A, 1.25A, 1.6A, 1.8A, 2A, 2.25A, 2.5A, 2.8A, 3A, 3.2A, 3.5A, 4A, 4.5A, 5A, 5.6A, 6A, 7A, 8A, 9A, 10A, 12A, 15A, 17.5A, 20A, 25A, 30A, 35A, 40A, 45A, 50A, 60A, 70A, 80A, 90A, 100A, 110A, 125A, 150A, 175A, 200A, 225A, 250A, 300A, 350A, 400A, 450A, 500A, 600A.
Sample P/N: LPJ020SP for 20A fuse



I.R. & Voltage:
300kA at 600VAC
100kA at 300VDC (1A to 60A)
20kA at 300VDC (70A to 600A)
Holders: Blocks for fuses (p133, 135-136)
Fuse Classification: Slow Acting (Low-Peak)
Option: Visual indicator version now available (8A to 600A only). Add 'I' suffix to part number.
Approvals: UL CE

Diagram 1

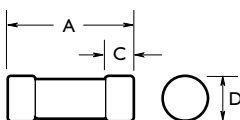
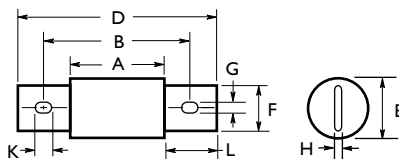


Diagram 2



Fuse Series	Ampere Ratings	Diagram	Dimensions in MM								
			A	B	C	D	E	F	G	H	L
DFJ, JKS, LPJxxxSP	1A-30A	1	57.2	-	12.7	20.6	-	-	-	-	-
DFJ, JKS, LPJxxxSP	35A-60A	1	60.5	-	16.0	26.9	-	-	-	-	-
DFJ, JKS, LPJxxxSP	70A-100A	2	67	92	-	118	29	19	7	3	10
DFJ, JKS, LPJxxxSP	110A-200A	2	76	111	-	146	41	29	7	5	10
DFJ, JKS, LPJxxxSP	225A-400A	2	83	133	-	181	54	41	10	6	14
DFJ, JKS, LPJxxxSP	450A-600A	2	84	152	-	203	66	51	14	14	18

JJN SERIES

300VAC / 170VDC

Series Part Number	Ampere Range
JJNxxx	1A to 1200A

Ampere Ratings : 1A, 2A, 3A, 6A, 10A, 15A, 20A, 25A, 30A, 35A, 40A, 45A, 50A, 60A, 70A, 80A, 90A, 100A, 110A, 125A, 150A, 175A, 200A, 225A, 250A, 300A, 350A, 400A, 450A, 500A, 600A, 700A, 800A, 1000A, 1200A.

Sample P/N: JJN040 for 40A fuse



I.R.: 200kA at 300VAC
20kA at 160VDC (15A to 600A)
100kA at 170VDC (700A to 1200A)

Voltage: 300VAC
160VDC (15A to 600A)
170VDC (700A to 1200A)

Characteristic: Very Fast Acting

Holders: Blocks (p135-136)
Clips (Contact sales).

Approvals:

JJS SERIES

600VAC

Series Part Number	Ampere Range
JJSxxx	1A to 800A

Ampere Ratings: 1A, 2A, 3A, 6A, 10A, 15A, 20A, 25A, 30A, 35A, 40A, 45A, 50A, 60A, 70A, 80A, 90A, 100A, 110A, 125A, 150A, 175A, 200A, 225A, 250A, 300A, 350A, 400A, 450A, 500A, 600A, 800A.

Sample P/N: JJS050 for 50A fuse



I.R.: 200kA at 600VAC

Voltage: 600VAC

Characteristic: Very Fast Acting

Holders: Blocks (p135-136)
Clips (Contact sales)

Approvals:

		Dimensions in MM						
Fuse	Ampere Ratings	Diagram	A	B	C	D	E	F
JJN	1A - 30A	1	22.4	-	-	10.4	-	-
JJN	35A - 60A	1	22.4	-	-	14.2	-	-
JJN	70A - 100A	3	54.9	39.7	19.1	-	21.4	7.2
JJN	110A - 200A	3	62.0	43.0	22.4	-	21.4	8.7
JJN	225A - 400A	3	69.9	46.8	25.4	-	21.9	10.3
JJN	450A - 600A	3	77.8	51.6	31.8	-	22.4	12.3
JJN	700A - 800A	3	85.9	56.4	44.5	-	23.4	14.3
JJN	1000A	3	101.7	64.3	50.8	-	27.5	15.5
JJN	1200A	3	101.7	64.3	50.8	-	27.5	15.5
JJS	1A - 30A	1	38.1	-	-	14.2	-	-
JJS	35A - 60A	2	39.7	20.6	-	25.4	-	-
JJS	70A - 100A	3	75.0	60.0	19.1	-	41.7	7.1
JJS	110A - 200A	3	82.6	63.6	22.4	-	42.2	8.7
JJS	225A - 400A	3	92.3	69.1	25.4	-	44.0	10.3
JJS	450A - 600A	3	101.2	75.0	31.8	-	45.2	12.3
JJS	700A - 800A	3	110.1	80.6	44.5	-	47.8	14.3

Diagram 1

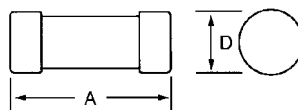


Diagram 2

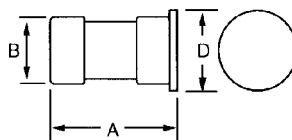
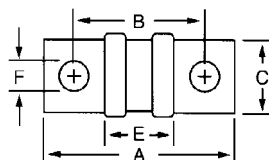


Diagram 3



SSD SERIES

SIZE E1 (SS)

Bussmann Part Number	Safeclip Part Number	Ampere Rating	Voltage (VAC)	Type
SSD002	SS2	2A	240V	gG
SSD004	SS4	4A	240V	gG
SSD006	SS6	6A	240V	gG
SSD010	SS10	10A	240V	gG
SSD016	SS16	16A	240V	gG
SSD020	SS20	20A	240V	gG
SSD025	SS25	25A	240V	gG
SSD032	SS32	32A	240V	gG

SSD Specification

I.R.: 33kA at 240VAC

Voltage: 240VAC

VDC (Please call)

Characteristic: See Type Listing

Pack Size (box): 10

Approvals: BS88-6, IEC269-1

SSD



NSD / ESD SERIES

SIZE F1 & F2 (NS/ES)

Bussmann Part Number	Safeclip* Part Number	Ampere Rating	Voltage (VAC)	Type
NSD002	NS2	2A	550V	gG
NSD004	NS4	4A	550V	gG
NSD006	NS6	6A	550V	gG
NSD010	NS10	10A	550V	gG
NSD016	NS16	16A	550V	gG
NSD020	NS20	20A	550V	gG
NSD025	NS25	25A	550V	gG
NSD032	NS32	32A	550V	gG
NSD20M25	NS20M25	20A (25M)	415V	gM
NSD20M32	NS20M32	20A (32M)	415V	gM
NSD20M36	-	20A (36M)	415V	gM
NSD32M36	NS32M36	32A (36M)	415V	gM
NSD32M40	NS32M40	32A (40M)	415V	gM
NSD32M50	NS32M50	32A (50M)	415V	gM
NSD32M63	NS32M63	32A (63M)	415V	gM
32NNL	-	Neutral link	550V	-
ESD002	-	2A	550V	gG
ESD004	-	4A	550V	gG
ESD006	-	6A	550V	gG
ESD010	-	10A	550V	gG
ESD016	-	16A	550V	gG
ESD020	-	20A	550V	gG
ESD025	-	25A	550V	gG
ESD032	-	32A	550V	gG
ESD040	ES40	40A	415V	gG
ESD050	ES50	50A	415V	gG
ESD063	ES63	63A	415V	gG
ESD63M80	ES63M80	63A (80M)	415V	gM
ESD63M100	-	63A (100M)	415V	gM
63ENL	-	Neutral link	550V	-

NSD / ESD Specification

I.R.: 80kA at rated VAC

Voltage: VDC (Please call)

Characteristic: See Type Listing

Pack Size (box): 10

Holders: Carriers (p130)

Approvals: BS88-6, IEC269-1

NSD



32NNL
Neutral Link



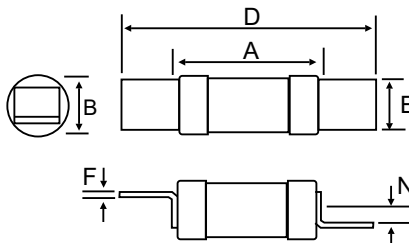
ESD



Dimensions in MM

Fuse	Ampere Rating	A	B	D	E	F	N
SSD	2A - 32A	23	12	47	12.7	0.8	3.2
NSD	2A - 32A	34.6	13.8	58.5	12.7	0.8	3.5
NSD	20M25 - 32M63	34.6	17.5	58.5	12.7	0.8	3.5
ESD	2A - 32A	35.5	13.8	67	15	1.2	3.5
ESD	40A - 63A	35.5	17.5	67	15	1.2	3.5
ESD	63M80 - 63M100	36.5	21	68	15	1.2	3.5

NOTE: Dimensions may vary between brands.



STD SERIES

(LST)

Bussmann Part Number	Redspot Part Number	Ampere Rating	Voltage (VAC)	Type
STD002	LST2	2A	240V	gG
STD004	LST4	4A	240V	gG
STD006	LST6	6A	240V	gG
STD010	LST10	10A	240V	gG
STD016	LST16	16A	240V	gG
STD020	LST20	20A	240V	gG
STD025	LST25	25A	240V	gG
STD032	LST32	32A	240V	gG

STD Specification

I.R.: 33kA **Voltage:** 240VAC

Characteristic: See Type Listing

Pack Size (box): 10

Approvals: BS88-1 & 2, IEC269-1

STD



NITD SERIES

SIZE A1 (NIT)

Bussmann Part Number	Redspot (550V) Part Number	Ampere Rating	Voltage (VAC)	Type
NITD002	NIT2L	2A	550V	gG
NITD004	NIT4L	4A	550V	gG
NITD006	NIT6L	6A	550V	gG
NITD010	NIT10L	10A	550V	gG
NITD016	NIT16L	16A	550V	gG
NITD020	NIT20L	20A	550V	gG
NITD025	NIT25L	25A	550V	gG
NITD032	NIT32L	32A	550V	gG
NITD20M25	NIT20M25L	20A (25M)	415V	gM
NITD20M32	NIT20M32L	20A (32M)	415V	gM
NITD32M40	NIT32M40L	32A (40M)	415V	gM
NITD32M50	NIT32M50L	32A (50M)	415V	gM
NITD32M63	NIT32M63L	32A (63M)	415V	gM
32CMLC	-	NEUTRAL	415V	-

NITD / AAO Specification

I.R.: 80kA at rated VAC

Voltage: VAC (As listed)

VDC (Please call)

Characteristic: See Type Listing

Pack Size (box): 10

Holders: Carriers (p129 & 131)

Notes: TIA 660V version also available contact sales for further information.

Approvals: BS88, IEC269-1

NOTE: Some dimensions may vary between brands. Please contact us before ordering.

NITD

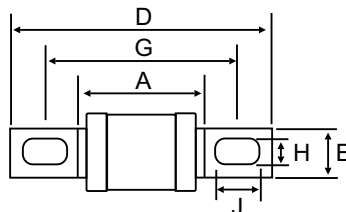


AAO SERIES

SIZE A2 (TIA / H07)

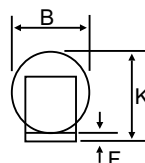
Bussmann Part Number	Redspot (550V) Part Number	Ampere Rating	Voltage (VAC)	Type
AAO002	TIA2L	2A	550V	gG
AAO004	TIA4L	4A	550V	gG
AAO006	TIA6L	6A	550V	gG
AAO010	TIA10L	10A	550V	gG
AAO016	TIA16L	16A	550V	gG
AAO020	TIA20L	20A	550V	gG
AAO025	TIA25L	25A	550V	gG
AAO032	TIA32L	32A	550V	gG
AAO32M40	TIA32M40L	32A (40M)	500V	gM
AAO32M50	TIA32M50L	32A (50M)	500V	gM
AAO32M63	TIA32M63L	32A (63M)	500V	gM
32CML	-	NEUTRAL	550V	-

AAO



Dimensions in MM

Fuse	Ampere Rating	A	B	D	E	F	G	H	J	K
STD	2A - 32A	24	12.1	47	11	1	35	4.7	Open Slot	13.1
NITD	2A - 20M32	34.6	13.7	55.2	11.1	0.8	42.5	TBA	Open Slot	14
NITD	32M40 - 32M63	35.5	17.5	55.5	11.1	1.2	42.5	TBA	Open Slot	18.2
AAO	2A - 32A	35	13.7	85	8.7	1.2	73	5.5	8	14.5
AAO	32M40-32M63	54.5	21	85	8.7	1.2	73	5.5	8	22.3



BAO / OSD SERIES SIZE A3 (TIS / K07)

Bussmann Part Number	Redspot (550V) Part Number	Ampere Rating	Voltage (VAC)	Type
-	TIS35L	35A	415V	gG
BAO040	TIS40L	40A	550V	gG
BAO050	TIS50L	50A	550V	gG
BAO063	TIS63L	63A	550V	gG
BAO63M80	TIS63M80L	63A (80M)	550V	gM
BAO63M100	TIS63M100L	63A (100M)	550V	gM
OSD080	OS80	80A	500V	gG
OSD100	OS100	100A	500V	gG
OSD100M125	OS100M125	100A (125M)	415V	gM
OSD100M160	-	100A (160M)	415V	gM
63/100CML	-	NEUTRAL	415V	-

BAO / OSD / CEO / DEO Specification

I.R.: 80kA at rated VAC

Voltage: VAC (As listed)
VDC (Please call)

Characteristic: See Type Listing

Pack Size (box): 5, 10

Holders (BAO): Carriers (p129 & 131)

Holders (OSD): Carriers (p131)

Holders (CEO): Carriers (p129)

Notes: 660V versions may also be available
contact sales for further information.

Approvals: BS88, IEC269-1

NOTE: Some dimensions may vary
between brands. Please contact us before
ordering.

CEO SERIES SIZE A4 (TCP / L14)

Bussmann Part Number	Redspot (550V) Part Number	Ampere Rating	Voltage (VAC)	Type
CEO032	-	32A	550V	gG
CEO040	-	40A	550V	gG
CEO050	-	50A	550V	gG
CEO063	-	63A	550V	gG
CEO080	TCP80L	80A	550V	gG
CEO100	TCP100L	100A	550V	gG
CEO100M125	TCP100M125L	100A (125M)	415V	gM
CEO100M160	TCP100M160L	100A (160M)	415V	gM
CEO100M200	TCP100M200L	100A (200M)	415V	gM

BAO



OSD



CEO

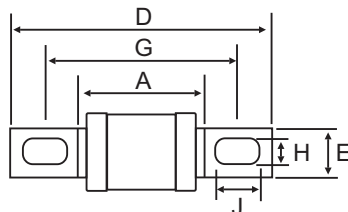
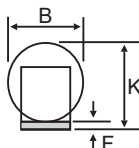


DEO



DEO SERIES SIZE A4 (TFP / M14)

Bussmann Part Number	Redspot (415V) Part Number	Ampere Rating	Voltage (VAC)	Type
DEO125	TFP125L	125A	415V	gG
DEO160	TFP160L	160A	415V	gG
DEO200	TFP200L	200A	415V	gG
DEO200M250	TFP200M250L	200A (250M)	415V	gM
DEO200M315	TFP200M315L	200A (315M)	415V	gM



Dimensions in MM

Fuse	Ampere Rating	A	B	D	E	F	G	H	J	K
BAO	40A - 63M100	54.5	21	87	12.7	1.2	73	5.5	8	22.3
OSD	80A - 100A	54.5	21	95	12.7	1.2	73	5.5	7.8	22.3
OSD	100M125-100M160	54	25.7	94.5	12.7	1.2	73	5.5	7.8	24.7
CEO	32A - 100A	58.5	21	109.5	14.3	3.2	94	8.7	11	24.5
CEO	100M125 - 100M160	58	25.8	109	14.3	3.2	94	8.7	11	26.8
CEO	100M200	47	31	110	19	3.2	94	9	10	29.5
DEO	125A - 200M315	47	29.5	110	19	3.2	94	9	10	31

AC / BC SERIES

(TB / K08)

Bussmann Part Number	Redspot (660V) Part Number	Ampere Rating	Voltage (VAC)	Voltage (VDC)	Type
AC002	TB2	2A	550V	250V	gG
AC004	TB4	4A	550V	250V	gG
AC006	TB6	6A	550V	250V	gG
AC010	TB10	10A	550V	250V	gG
AC016	TB16	16A	550V	250V	gG
AC020	TB20	20A	550V	250V	gG
AC025	TB25	25A	550V	250V	gG
AC032	TB32	32A	550V	250V	gG
BC040	TB40	40A	550V	250V	gG
BC050	TB50	50A	550V	250V	gG
BC063	TB63	63A	550V	250V	gG
BC63M80	-	63A (80M)	550V	-	gM
BC63M100	-	63A (100M)	550V	-	gM

AC / BC Specification

I.R.: 80kA at rated VAC/VDC

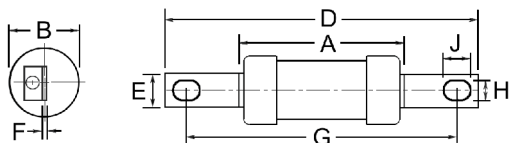
Voltage: VAC (As listed)
VDC (As listed)

Characteristic: See Type Listing

Pack Size (box): 10

Approvals: BS88, IEC269-1

NOTE: Some dimensions may vary between brands. Please contact us before ordering.



AC



BC



Dimensions in MM

Fuse	Ampere Rating	A	B	D	E	F	G	H	J
AC	2A - 32A	55.5	21	113.5	12.7	1.6	97.5	7	13.5
BC	40A - 63M100	55.5	21	113.5	12.7	1.6	97.5	7	13.5

Red Spot Fuse Holders

The original GEC Red Spot fuse holder is now Eaton Bussmann.

- Designed and CSA Certified for use up to 400 amps and 690Vac/dc.
- Multiple termination options; front connected, back connected etc.
- Fully shrouded terminals provide finger-safe IP20 protection.
- Enhanced safety; flame-retardant & non-hygroscopic components.
- Wide range of fuses to suit.

For further information please see our fuse holder section page 129.



AC / BC SERIES

(TBC / K09)

AD / BD Specification

I.R.: 80kA at rated VAC

Voltage: VAC (As listed)

VDC (As listed)

Characteristic: See Type Listing

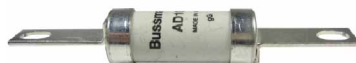
Pack Size (box): 10

Holders: Please contact sales.

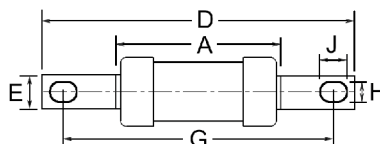
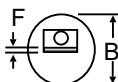
Approvals: BS88, IEC269-1

Bussman Part Number	Redspot (660V) Part Number	Ampere Rating	Voltage (VAC)	Voltage (VDC)	Type
AD002	TBC2	2A	550V	250V	gG
AD004	TBC4	4A	550V	250V	gG
AD006	TBC6	6A	550V	250V	gG
AD010	TBC10	10A	550V	250V	gG
AD016	TBC16	16A	550V	250V	gG
AD020	TBC20	20A	550V	250V	gG
AD025	TBC25	25A	550V	250V	gG
AD032	TBC32	32A	550V	250V	gG
BD040	TBC40	40A	500V	250V	gG
BD050	TBC50	50A	500V	250V	gG
BD063	TBC63	63A	500V	250V	gG

AD / BD



Centre Tag



CD SERIES

SIZE B1 (TC / L09)

CD Specification

I.R.: 80kA at rated VAC

Voltage: VAC (As listed)

VDC (Please call)

Characteristic: See Type Listing

Pack Size (box): 5

Holders: Please contact sales.

Notes: 660V versions also available contact sales for further information.

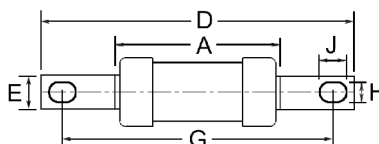
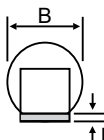
Approvals: BS88, IEC269-1

Bussmann Part Number	Redspot (550V) Part Number	Ampere Rating	Voltage (VAC)	Type
CD080	TC80L	80A	500V	gG
CD100	TC100L	100A	500V	gG
CD100M125	-	100A (125M)	415V	gM
CD100M160	-	100A (160M)	415V	gM
CD100M200	-	100A (200M)	415V	gM

CD



Offset Tag



Dimensions in MM

Fuse	Ampere Rating	A	B	D	E	F	G	H	J
AD	2A - 32A	55	21	128.5	14.2	1.4	111	8.7	11.8
BD	40A - 63A	55.5	21	128.5	14.2	1.4	111	8.7	11.8
CD	80A - 100A	58.6	21	126	14.3	3.2	111	8.7	11.1
CD	100M125 - 100M160	58	26	126	14.3	3.2	111	8.7	11.1
CD	100M200	47	31	136	19	3.2	111	9	12.5

DD SERIES

SIZE B2 (TF / M09)

Bussmann Part Number	Redspot (415V) Part Number	Ampere Rating	Type	Voltage (VAC)
DD125	TF125L	125A	gG	415V
DD160	TF160L	160A	gG	415V
DD200	TF200L	200A	gG	415V
DD200M250	TF200M250L	200A (250M)	gM	415V
DD200M315	TF200M315L	200A (315M)	gM	415V

DD Specification

I.R.: 80kA at rated VAC

Voltage: VAC (As listed)

VDC (Please call)

Characteristic: See Type Listing

Pack Size (box): 5

Holders: Carriers (p129)

Notes: 660V versions also available
contact sales for further information.

Approvals: BS88, IEC269-1

DD



ED SERIES

SIZE B3 (TKF) & B4 (TMF)

Bussmann Part Number	Redspot (415V) Part Number	Ampere Rating	Type	Voltage (VAC)
ED250	TKF250L	250A	gG	415V
ED315	TKF315L	315A	gG	415V
-	TKF315M355*	315A (355A)	gM	690V*
ED355	TMF355L	355A	gG	415V
ED400	TMF400L	400A	gG	415V
ED315M400	-	315A (400M)	gM	415V
ED400M500	-	400A (500M)	gM	415V

ED Specification

I.R.: 80kA at rated VAC

Voltage: VAC (As listed)

VDC (Please call)

Characteristic: See Type Listing

Pack Size (box): 1

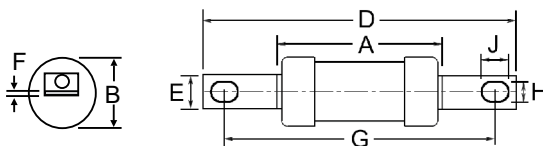
Holders: Please contact sales

Notes: 660V versions also available
contact sales for further information.

Approvals: BS88, IEC269-1

Notes: * Fuse is 690VAC/460VDC

ED



Dimensions in MM

Fuse	Ampere Rating	A	B	D	E	F	G	H	J
DD	125A - 200M315	47	31	136	19	3.2	111	9	12.5
ED	250A	47	31	136	19	3.2	111	9	12.5
ED	315A	50	38	136	25.4	4.7	111	9	12.5
ED	315M400	50	38	136	25.4	4.7	111	9	12.5
ED	355A & 400A	50	38	136	25.4	4.7	111	9	12.5
ED	400M500	75	59	135.5	25.4	4.7	111	9.5	12.5

EFS (125A-250A) SERIES

(TKM / N11)

Bussmann Part Number	Redspot (415V) Part Number	Ampere Rating	Voltage (VAC)	Type	Diagram
EFS125	-	125A	415V	gG	1
EFS160	-	160A	415V	gG	1
EFS200	-	200A	415V	gG	1
EFS250	TKM250L	250A	415V	gG	1
-	TKM315L	315A	415V	gG	1

EFS (<250A) Specification

I.R.: 80kA at rated VAC

Voltage: VAC (As listed)

VDC (Please call)

Characteristic: See Type Listing

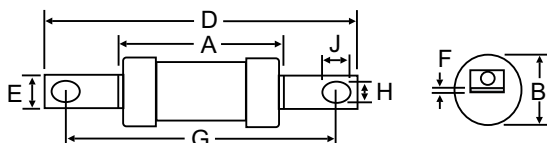
Pack Size (box): 1

Holders: Carriers (p129)

Notes: 660V versions also available contact sales for further information.

Approvals: BS88, IEC269-1

Diagram 1



EFS (125A - 250A)
TKM (315A)



EFS (315A) & EF SERIES

SIZE C1 (TM / P11)

Bussmann Part Number	Redspot (415V) Part Number	Ampere Rating	Voltage (VAC)	Type	Diagram
EFS315	-	315A	415V	gG	2
EF355	TM355L	355A	415V	gG	2
EF400	TM400L	400A	415V	gG	2
EF400M500	-	400A (500M)	550V	gM	2

EFS (315A) / EF Specification

I.R.: 80kA at rated VAC

Voltage: VAC (As listed)

VDC (Please call)

Characteristic: See Type Listing

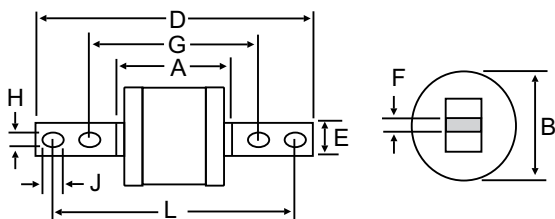
Pack Size (box): 1

Holders: Carriers (p129)

Notes: 660V versions also available contact sales for further information.

Approvals: BS88, IEC269-1

Diagram 2



EFS (315A)
EF (355A - 400M500A)



Dimensions in MM

Fuse	Ampere Rating	Diagram	A	B	D	E	F	G	H	J	L
EFS	125A - 250A	1	47	31	158	19	3.2	133	10.5	12.5	-
TKM315L	315A	1	47	41	159	26	3.2	133	10.5	14.0	-
EFS315	315A	2	50	38	209	25.4	4.7	133	10.5	12.5	184
EF	355A - 400A	2	75	59	210	25.4	4.7	136	10.5	15.5	187
EF	400M500	2	77.5	74	210	25.4	6.4	134	10.5	15.5	185

FF SERIES

SIZE C2 (TTM / R11)

Bussmann Part Number	Redspot (415V) Part Number	Ampere Rating	Voltage (VAC)	Voltage (VDC)	Type
FF450	TTM450L	450A	550V	400V	gG
FF500	TTM500L	500A	550V	400V	gG
FF560	TTM560L	560A	550V	400V	gG
FF630	TTM630L	630A	550V	400V	gG

FF / GF Specifications

I.R.: 80kA at rated VAC

Voltage: VAC (As listed)

VDC (As listed)

Characteristic: See Type Listing

Pack Size (box): 1

Notes: 660V versions also available
contact sales for further information.

Approvals: BS88, IEC269-1

GF SERIES

SIZE C3 (TLM)

Bussmann Part Number	Redspot (415V) Part Number	Ampere Rating	Voltage (VAC)	Voltage (VDC)	Type
-	TLM670	670A	660V	TBC	gG
GF710	TLM710L	710A	550V	250V	gG
-	TLM750	750A	660V	TBC	gG
GF800	TLM800L	800A	550V	250V	gG

FF / GF



FG SERIES

(TT)

Bussmann Part Number	Redspot (660V) Part Number	Ampere Rating	Voltage (VAC)	Voltage (VDC)	Type
FG450	TT450	450A	550V	400V	gG
FG500	TT500	500A	550V	400V	gG
FG560	TT560	560A	550V	400V	gG
FG630	TT630	630A	550V	400V	gG

FG / GG Specifications

I.R.: 80kA at rated VAC

Voltage: VAC (As listed)

VDC (As listed)

Characteristic: See Type Listing

Pack Size (box): 1

Notes: 660V versions also available
contact sales for further information.

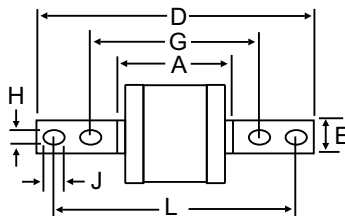
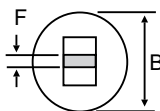
Approvals: BS88, IEC269-1

GG SERIES

(TLT)

Bussmann Part Number	Redspot (415V) Part Number	Ampere Rating	Voltage (VAC)	Voltage (VDC)	Type
GG710	TLT710	710A	550V	250	gG
GG800	TLT800	800A	550V	250	gG
GG1000	-	1000A	550V	-	gG
GG1250	-	1250A	550V	-	gG

FG / GG



Dimensions in MM

Fuse	Ampere Rating	A	B	D	E	F	G	H	J	L
FF	450A - 630A	77.5	74	210	25.4	6.4	134	10.5	15.5	185
GF	710A - 800A	80.5	83	210	25.4	9.5	134	10.5	15.5	185
FG	450A - 630A	77.5	74	262	38	6.4	167	10.5	15.5	231
GG	710A - 800A	77.5	83	262	38	6.4	167	10.5	6.4	231
GG	1000A - 1250A	84.0	100	262	38	12.7	165	10.5	12.7	228.5

GH SERIES

SIZE D1 (TLU / TXU)

GH Specifications

I.R.: 80kA at rated VAC/VDC

Characteristic: See Type Listing

Pack Size (box): 1

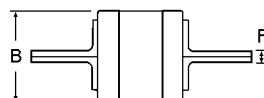
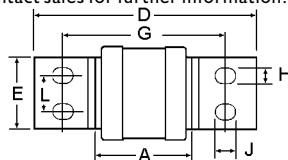
Approvals: BS88, IEC269-1

Notes: 660V versions also available
contact sales for further information.

Bussmann Part No.	Redspot Part No.	Ampere Rating	Voltage (VAC)	Voltage (VDC)	Type
GH710	TLU710	710A	550V	—	gG
GH800	TLU800	800A	550V	—	gG
GH1000	—	1000A	550V	—	gG
GH1250	—	1250A	550V	—	gG



Parallel Tag Fixing



Dimensions in MM

Fuse	Ampere Rating	A	B	D	E	F	G	H	J	L
GH 710A - 800A	81	83	198	63.5	9.6	149	14	19	32	
GH 1000A - 1250A	81	100	198	63.5	9.6	149	14	19	32	

AMERICAN CLASS L FUSES KRPC-C_SP

KRPC-C_SP Specifications

I.R.: 300kA at 600VAC (KRPC)

100kA at 300VDC (KRPC - 601A to 2000A)

50kA at 340VDC (KRPC - all ratings)

Voltage: VAC/VDC (As listed)

Sample P/N: KRPC1400 for 1400A fuse

Pack Size (box): 1

Holders: Blocks for fuses up to 800A (p135)

Fuse Classification: Time Delay (Low-Peak)

Notes: *For further details on ratings below

800A and above 1600A please contact sales.

Approvals: UL, CE, CE

Part Number	Ampere Rating	Voltage (VAC)	Voltage (VDC)	Figure
KRPC601	601A	600V	300V	1
KRPC650	650A	600V	300V	1
KRPC700	700A	600V	300V	1
KRPC750	750A	600V	300V	1
KRPC800	800A	600V	300V	1
KRPC1000	1000A	600V	300V	2
KRPC1200	1200A	600V	300V	2
KRPC1600	1600A	600V	300V	2
KRPC2000	2000A	600V	300V	2

Available Ratings: 601A, 650A, 700A, 750A, 800A, 801A, 900A, 1000A, 1100A, 1200A, 1350A, 1400A, 1500A, 1600A, 1800A, 1900A, 2000A, 2001A, 2400A, 2500A, 3000A, 3500A, 3800A, 4000A, 4500A, 5000A, 6000A.

Diagram 1

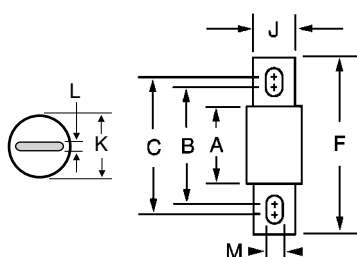
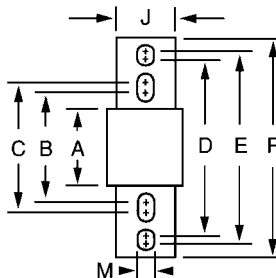


Diagram 2



Dimensions in MM

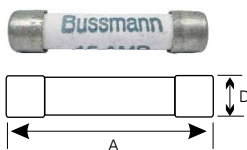
Fuse	Ampere Rating	Diagram	A	B	C	D	E	F	J	K	L	M
KRPC-C 601A - 800A	1	95.3	146.2	171.6	—	—	273.3	50.8	63.6	9.7	16.0	
KRPC-C 801A - 1200A	2	95.3	146.2	171.6	220	259	273.3	50.8	63.6	9.7	16.0	
KRPC-C 1350A - 1600A	2	95.3	146.2	171.6	220	259	273.3	60.5	76.3	11.2	16.0	
KRPC-C 1800A - 2000A	2	95.3	146.2	171.6	220	259	273.3	69.9	89.0	12.7	16.0	

Cartridge Part Number	Offset Tag Part Number	Body Size	Voltage (VAC)	Ampere Rating
059-0107	-	0	440	250mA
059-0108	-	0	440	500mA
059-0109	-	0	440	1A
059-0110	-	0	440	2A
059-0111	-	0	440	3A
059-0112	-	0	440	5A
059-0113	-	0	440	7A
011-9925	-	0	440	10A
011-9926	-	0	440	15A
059-0140	059-0114	1	440	500mA
059-0141	059-0115	1	440	1A
059-0142	059-0116	1	440	2A
059-0143	059-0117	1	440	3A
059-0144	059-0118	1	440	5A
059-0145	059-0119	1	440	7A
059-0146	059-0120	1	440	10A
059-0147	059-0121	1	440	15A
011-9483	011-9679	1	440	20A
-	012-0140	1	440	30A
059-0148	059-0122	2	440	10A
059-0149	059-0123	2	440	15A
059-0150	059-0124	2	440	20A
059-0151	059-0125	2	440	30A
-	012-0067	2	440	40A
-	011-9127	2	440	50A
-	012-0141	2	440	60A
059-0152	059-0126	3	440	40A
059-0153	059-0127	3	440	60A
059-0154	059-0128	3	440	80A
059-0155	059-0129	3	440	100A
-	011-9128	3	440	125A
-	011-9129	3	440	150A

I.R.: 33kA at rated voltage

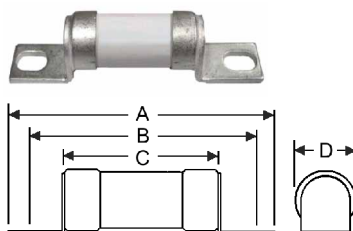
Pack Size: Contact sales.

Approvals: BS88, NATO Defence Std. 59-96



CARTRIDGE Dimensions in MM

Body Size	A	D
0	32.1	6.4
1	33.6	11.9
2	37.6	16.7
3	47.9	33.3

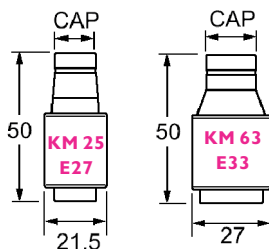


OFFSET TAG Dimensions in MM

Body Size	A	B	C	D
1	56.3	44.6	33.9	12.0
2	70.7	55.9	37.4	16.7
3	88.6	69.8	47.4	33.3

MARINE FUSES A-MAGNETIC, SHOCK & SHAKE PROOF

SIBA Part Number	NATO Part Number	Body	Type	Voltage VAC / VDC	Ampere Rating
7009013.1	5920-12-159-4151	KM 5	Fast	500 -	1A
7009013.1.6	5920-12-157-2821	KM 5	Fast	500 -	1.6A
7009013.2	5920-12-135-7003	KM 5	Fast	500 -	2A
7009013.2.5	5920-12-163-2386	KM 5	Fast	500 -	2.5A
7009013.4	5920-12-135-7002	KM 5	Fast	500 -	4A
7009013.6.3	5920-12-163-2387	KM 5	Fast	500 -	6.3A
7009013.10	5920-12-167-3292	KM 5	Fast	500 -	10A
1001704.2	5920-12-148-5715	KM 25	gL/gG	500 500	2A
1001704.4	5920-12-146-0554	KM 25	gL/gG	500 500	4A
1001704.6	5920-12-144-0924	KM 25	gL/gG	500 500	6A
1001704.10	5920-12-140-0942	KM 25	gL/gG	500 500	10A
1001704.16	5920-12-144-3004	KM 25	gL/gG	500 500	16A
1001704.20	5920-12-140-0941	KM 25	gL/gG	500 500	20A
1001704.25	5920-12-140-7377	KM 25	gL/gG	500 500	25A
1001804.35	5920-12-150-4246	KM 63	gL/gG	500 500	35A
1001804.50	5920-12-144-0925	KM 63	gL/gG	500 500	50A
1001804.63	5920-12-150-4247	KM 63	gL/gG	500 500	63A



Dimensions in MM

I.R and Pack Size: Varies contact sales.

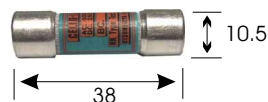
Features: Visual blown fuse colour coded indicator.

Approvals: NATO Defence Standard

Part Number	Alternative P/N	Ampere Rating
NC0-3	KLM003	3A
NC0-5	KLM005	5A
NC0-10	KLM010	10A
NC0-15	KLM015	15A

Voltage & I.R.: 500VAC (20kA) / 250VDC (20kA)

NC0



Dimensions in MM

NC1 / NC2

Part Number	Ampere Rating	Description	Dimensions in MM	
			A	B
NC1-1	1A	Fuse Link	42	8.9
NC1-3	3A	Fuse Link	42	8.9
NC1-5	5A	Fuse Link	42	8.9
NC1-10	10A	Fuse Link	42	8.9
NC1-15	15A	Fuse Link	42	8.9
NC1-20	20A	Fuse Link	42	8.9
NC1-25	25A	Fuse Link	42	8.9
NC1-30	30A	Fuse Link	42	8.9
NC1-CASE	-	Fuse Case	50	15
NC2-40	40A	Fuse Link	66.4	11.5
NC2-50	50A	Fuse Link	66.4	11.5
NC2-60	60A	Fuse Link	66.4	11.5
NC2-CASE	-	Fuse Case	75	20

NC1 / NC2



Fuse Link

NC1-CASE
NC2-CASE



Fuse Case With Screw Cap

Voltage & I.R.: 500VAC (20kA) / 250VDC (20kA)

Note: NC1 (1A-30A) + NC1-CASE = UC1 (1A-30A) Fuse

Note: NC2 (40A-60A) + NC2-CASE = UC2 (40A-60A) Fuse



Notes: Fuse link fits into fuse case.

UC1 / UC2

Part Number	Alternative P/N	Ampere Rating
UC1-1	1451-AR001	1A
UC1-3	1451-AR003	3A
UC1-5	1451-AR005	5A
UC1-10	1451-AR010	10A
UC1-15	1451-AR015	15A
UC1-20	1451-AR020	20A
UC1-25	1451-AR025	25A
UC1-30	1451-AR030	30A
UC2-40	-	40A
UC2-50	-	50A
UC2-60	-	60A

UC1



UC2



Dimensions in MM

Voltage & I.R.: 500VAC (50kA) / 250VDC (20kA)

JG1

Part Number	Alternative P/N	Ampere Rating
JG1-3	JKS003	3A
JG1-5	JKS006	5A
JG1-10	JKS010	10A
JG1-15	JKS015	15A
JG1-20	JKS020	20A
JG1-25	JKS025	25A
JG1-30	JKS030	30A

JG1



Dimensions in MM

Voltage & I.R.: 600VAC (100kA)

Medium Voltage Fuses

Oil Tight
Backup Fuse



DIN Backup Fuse

Fuses

Fuses	Page
Air Ferrule Fuses (BS2692-1)	104
Oil Tight Ferrule Fuses (BS2692-1)	105
Motor Protection Fuses (DIN)	106
Motor Protection Tag Fuses (BS2692-1)	106 - 107
Back Up Fuses (DIN) 3/7.2kV	108
Back Up Fuses (DIN) 6/12kV	108
Back Up Fuses (DIN) 10/24kV	109
Liquid Immersed Transformer Fuses	109
Voltage Transformer Fuses (Air)	110
Voltage Transformer Fuses (Oil)	110

Features: Pyrotechnic striker pin

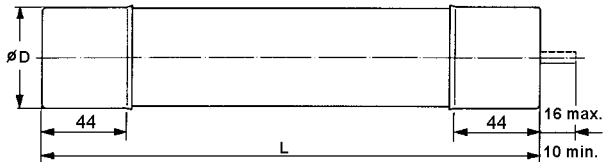
Part Number	Ampere Rating	Voltage	I.R.	Striker Pin	Length "L" (mm)	Diameter "D" (mm)
7.2BDGHA6.3	6.3A	7.2kV	40kA	Yes	359	51
7.2BDGHA10	10A	7.2kV	40kA	Yes	359	51
7.2BDGHA16	16A	7.2kV	40kA	Yes	359	51
7.2BDGHA20	20A	7.2kV	40kA	Yes	359	51
7.2BDGHA25	25A	7.2kV	40kA	Yes	359	51
7.2BDGHA31.5	31.5A	7.2kV	40kA	Yes	359	51
7.2BDGHA40	40A	7.2kV	40kA	Yes	359	51
7.2BDGHA50	50A	7.2kV	40kA	Yes	359	51
7.2BDGHA63	63A	7.2kV	40kA	Yes	359	51
7.2BDGHA80	80A	7.2kV	40kA	Yes	359	51
7.2BFGHA90	90A	7.2kV	40kA	Yes	359	76
7.2BFGHA100	100A	7.2kV	40kA	Yes	359	76
7.2BFGHA125	125A	7.2kV	40kA	Yes	359	76
7.2BFGHA140	140A	7.2kV	40kA	Yes	359	76
7.2BFGHA160	160A	7.2kV	40kA	Yes	359	76
12BDGHA6.3	6.3A	12kV	40kA	Yes	359	51
12BDGHA10	10A	12kV	40kA	Yes	359	51
12BDGHA16	16A	12kV	40kA	Yes	359	51
12BDGHA20	20A	12kV	40kA	Yes	359	51
12BDGHA25	25A	12kV	40kA	Yes	359	51
12BDGHA31.5	31.5A	12kV	40kA	Yes	359	51
12BDGHA40	40A	12kV	40kA	Yes	359	51
12BDGHA50	50A	12kV	40kA	Yes	359	51
12BFGHA63	63A	12kV	40kA	Yes	359	76
12BFGHA71	71A	12kV	40kA	Yes	359	76
12BFGHA80	80A	12kV	40kA	Yes	359	76
12BFGHA90	90A	12kV	40kA	Yes	359	76
12BFGHA100	100A	12kV	40kA	Yes	359	76
12AKGHA125	125A	12kV	20kA	Yes	359	76
24ADIHA6.3	6.3A	24kV	12kA	Yes	565	51
24ADIHA10	10A	24kV	12kA	Yes	565	51
24ADIHA16	16A	24kV	12kA	Yes	565	51
24ADIHA20	20A	24kV	12kA	Yes	565	51
24ADIHA25	25A	24kV	12kA	Yes	565	51
24ADIHA31.5	31.5A	24kV	12kA	Yes	565	51
24AFIHA40	40A	24kV	16kA	Yes	565	76
24AFIHA50	50A	24kV	16kA	Yes	565	76
24AFIHA63	63A	24kV	16kA	Yes	565	76
24AFIHA80	80A	24kV	16kA	Yes	565	76
24AFIHA90	90A	24kV	16kA	Yes	565	76



MEDIUM VOLTAGE

Pack Size (box): 1
Approvals: BS2692-1

RELATED PRODUCTS:
Holders: Clips (p113)



The oil tight fuse links are designed for use in oil filled switchgear. This type was pioneered in the U.K. and the Bussmann range has been in continuous manufacture for almost 40 years, being by far the most widely used device of its kind in the world. Over 1,000,000 Bussmann branded fuse links have been put into service without a single reported case of oil ingress. A unique triple seal system ensures against long term seal deterioration. Low power dissipation ensures cool running in oil filled switchgear. The range is not suitable for use inside oil filled transformer tanks where high oil temperatures may be expected.

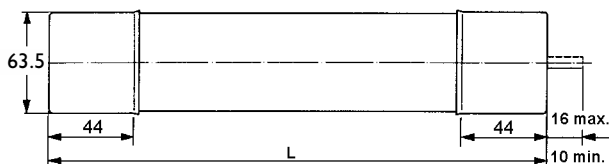
Features: Pyrotechnic striker pin

Part Number	Alternative Part Number	Ampere Rating	Voltage	I.R.	Striker Pin	Length "L" (mm)
I2OEFMA6.3	—	6.3A	12kV	40kA	Yes	254
I2OEFMA10	—	10A	12kV	40kA	Yes	254
I2OEFMA16	—	16A	12kV	40kA	Yes	254
I2OEFMA20	3014436.20	20A	12kV	40kA	Yes	254
I2OEFMA25	—	25A	12kV	40kA	Yes	254
I2OEFMA31.5	—	31.5A	12kV	40kA	Yes	254
3014436.35	3014436.35	35A	12kV	40kA	Yes	254
I2OEFMA40	3014436.40	40A	12kV	40kA	Yes	254
I2OEFMA50	—	50A	12kV	40kA	Yes	254
3014436.56	3014436.56	56A	12kV	40kA	Yes	254
I2OEFMA63	—	63A	12kV	45kA	Yes	254
I2OHFMA71	—	71A	12kV	45kA	Yes	254
I2OHFMA80	—	80A	12kV	40kA	Yes	254
3014436.90	3014436.90	90A	12kV	40kA	Yes	254
I2OHFMA100	3014436.100	100A	12kV	40kA	Yes	254
I2OHGMA6.3	—	6.3A	12kV	40kA	Yes	359
I2OHGMA10	--	10A	12kV	40kA	Yes	359
I2OHGMA16	—	16A	12kV	40kA	Yes	359
I2OHGMA20	—	20A	12kV	40kA	Yes	359
I2OHGMA25	—	25A	12kV	40kA	Yes	359
I2OHGMA31.5	—	31.5A	12kV	40kA	Yes	359
I2OHGMA40	—	40A	12kV	40kA	Yes	359
I2OHGMA50	—	50A	12kV	40kA	Yes	359
I2OHGMA63	—	63A	12kV	40kA	Yes	359
I2OHGMA71	—	71A	12kV	40kA	Yes	359
I2OHGMA80	—	80A	12kV	40kA	Yes	359
I2OHGMA90	--	90A	12kV	40kA	Yes	359
I2OHGMA100	--	100A	12kV	40kA	Yes	359
KEMXO120	KEMXO120	120A	12kV	40kA	Yes	359
I2OLGMA125	—	125A	12kV	40kA	Yes	359



Pack Size (box): 1

Approvals: IEC 282-1, BS2692-1, ESI Std 12-8



RELATED PRODUCTS:

Holders: Clips (p113)



DIN MOTOR PROTECTION FUSES

EATON Bussmann

	Ampere			Striker	Dimensions in MM		
Part Number	Rating	Voltage	I.R.	Pin	A	B	D
3.6WDLSJ50	50A	3.6kV	50kA	Yes	292	360	51
3.6WDLSJ63	63A	3.6kV	50kA	Yes	292	360	51
3.6WDLSJ80	80A	3.6kV	50kA	Yes	292	360	51
3.6WDLSJ100	100A	3.6kV	50kA	Yes	292	360	51
3.6WDLSJ125	125A	3.6kV	50kA	Yes	292	360	51
3.6WFLSJ160	160A	3.6kV	50kA	Yes	292	360	76
3.6WFLSJ200	200A	3.6kV	50kA	Yes	292	360	76
3.6WKLSJ250	250A	3.6kV	50kA	Yes	292	360	76
3.6WKLSJ315	315A	3.6kV	50kA	Yes	292	360	76
3.6WKLSJ400	400A	3.6kV	50kA	Yes	292	360	76
7.2WFMSJ25	25A	7.2kV	63kA	Yes	442	510	76
7.2WFMSJ31.5	31.5A	7.2kV	63kA	Yes	442	510	76
7.2WFMSJ40	40A	7.2kV	63kA	Yes	442	510	76
7.2WFMSJ50	50A	7.2kV	63kA	Yes	442	510	76
7.2WFMSJ63	63A	7.2kV	63kA	Yes	442	510	76
7.2WFMSJ80	80A	7.2kV	63kA	Yes	442	510	76
7.2WFMSJ100	100A	7.2kV	63kA	Yes	442	510	76
7.2WFMSJ125	125A	7.2kV	63kA	Yes	442	510	76
7.2WFMSJ160	160A	7.2kV	63kA	Yes	442	510	76
7.2WKMSJ200	200A	7.2kV	63kA	Yes	442	510	76
7.2WKMSJ224	224A	7.2kV	63kA	Yes	442	510	76
7.2WKMSJ250	250A	7.2kV	63kA	Yes	442	510	76
7.2WKMSJ315	315A	7.2kV	63kA	Yes	442	510	76
7.2WKMSJ355	355A	7.2kV	63kA	Yes	442	510	76



Features: Striker pin

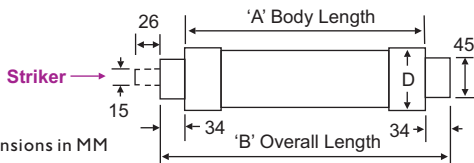
Pack Size (box): 3

Holders: Clips (p114), Bases (p114)

Accessories: Extension caps (p149)

Approvals: IEC 60282-1, VDE 0670 part 4

Notes: Fuses are made in accordance with DIN 43625 dimensions.



BRITISH STD. MOTOR PROTECTION TAG FUSES

EATON Bussmann

MEDIUM VOLTAGE

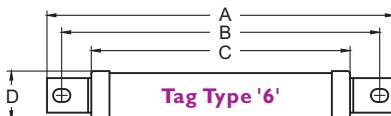
	Ampere			Striker	Dimensions in MM			
Part Number	Rating	Voltage	I.R.	Pin	A	B	C	D
3.6WJON65	5A	3.6kV	50kA	No	259	235	192	35
3.6WJON66.3	6.3A	3.6kV	50kA	No	259	235	192	35
3.6WJON610	10A	3.6kV	50kA	No	259	235	192	35
3.6WJON616	16A	3.6kV	50kA	No	259	235	192	35
3.6WJON620	20A	3.6kV	50kA	No	259	235	192	35
3.6WJON625	25A	3.6kV	50kA	No	259	235	192	35
3.6WJON631.5	31.5A	3.6kV	50kA	No	259	235	192	35
3.6WJON640	40A	3.6kV	50kA	No	259	235	192	35
3.6WJON650	50A	3.6kV	50kA	No	259	235	192	35
3.6WDOH650	50A	3.6kV	50kA	Yes	259	235	192	51
3.6WDOH663	63A	3.6kV	50kA	Yes	259	235	192	51
3.6WDOH680	80A	3.6kV	50kA	Yes	259	235	192	51
3.6WDOH6100	100A	3.6kV	50kA	Yes	259	235	192	51
3.6WDOH6125	125A	3.6kV	50kA	Yes	259	235	192	51
3.6WFOH6160	160A	3.6kV	50kA	Yes	259	235	192	76
3.6WFOH6200	200A	3.6kV	50kA	Yes	259	235	192	76



Pack Size (box): 1

Approvals: IEC60282-1, IEC644 & BS5907.

Notes: Fuses are made in accordance with BS2692-1 dimensions.

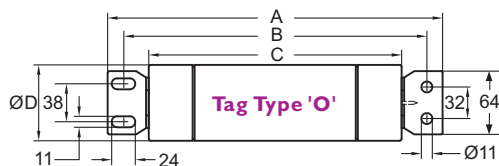


Part Number	Ampere		Voltage	I.R.	Striker Pin	Dimensions in MM			
	Rating					A	B	C	D
3.6WDFHO50	50A	3.6kV	50kA	Yes	337	305	254	51	
3.6WDFHO63	63A	3.6kV	50kA	Yes	337	305	254	51	
3.6WDFHO80	80A	3.6kV	50kA	Yes	337	305	254	51	
3.6WDFHO100	100A	3.6kV	50kA	Yes	337	305	254	51	
3.6WDFHO125	125A	3.6kV	50kA	Yes	337	305	254	51	
3.6WFFHO160	160A	3.6kV	50kA	Yes	337	305	254	76	
3.6WFFHO200	200A	3.6kV	50kA	Yes	337	305	254	76	
3.6WKFO250	250A	3.6kV	50kA	Yes	337	305	254	76	
3.6WKFO315	315A	3.6kV	50kA	Yes	337	305	254	76	
3.6WKFO355	355A	3.6kV	50kA	Yes	337	305	254	76	
3.6WKFO400	400A	3.6kV	50kA	Yes	337	305	254	76	
3.6WFGHO31.5	31.5A	3.6kV	50kA	Yes	442	410	359	76	
3.6WFGHO40	40A	3.6kV	50kA	Yes	442	410	359	76	
3.6WFGHO50	50A	3.6kV	50kA	Yes	442	410	359	76	
3.6WFGHO63	63A	3.6kV	50kA	Yes	442	410	359	76	
3.6WFGHO80	80A	3.6kV	50kA	Yes	442	410	359	76	
3.6WFGHO100	100A	3.6kV	50kA	Yes	442	410	359	76	
3.6WFGHO125	125A	3.6kV	50kA	Yes	442	410	359	76	
3.6WFGHO160	160A	3.6kV	50kA	Yes	442	410	359	76	
3.6WFGHO200	200A	3.6kV	50kA	Yes	442	410	359	76	
3.6WFGHO250	250A	3.6kV	50kA	Yes	442	410	359	76	
3.6WKGHO315	315A	3.6kV	50kA	Yes	442	410	359	76	
3.6WKGHO355	355A	3.6kV	50kA	Yes	442	410	359	76	
3.6WKGHO400	400A	3.6kV	50kA	Yes	442	410	359	76	
3.6WKGHO450	450A	3.6kV	50kA	Yes	442	410	359	76	
7.2WFNHO25	25A	7.2kV	40kA	Yes	486	454	403	76	
7.2WFNHO31.5	31.5	7.2kV	40kA	Yes	486	454	403	76	
7.2WFNHO40	40A	7.2kV	40kA	Yes	486	454	403	76	
7.2WFNHO50	50A	7.2kV	40kA	Yes	486	454	403	76	
7.2WFNHO63	63A	7.2kV	40kA	Yes	486	454	403	76	
7.2WFNHO80	80A	7.2kV	40kA	Yes	486	454	403	76	
7.2WFNHO100	100A	7.2kV	40kA	Yes	486	454	403	76	
7.2WFNHO125	125A	7.2kV	40kA	Yes	486	454	403	76	
7.2WFNHO160	160A	7.2kV	40kA	Yes	486	454	403	76	
7.2WKNHO200	200A	7.2kV	40kA	Yes	486	454	403	76	
7.2WKNHO224	224A	7.2kV	40kA	Yes	486	454	403	76	
7.2WKNHO250	250A	7.2kV	40kA	Yes	486	454	403	76	
7.2WKNHO315	315A	7.2kV	40kA	Yes	486	454	403	76	

Pack Size (box): 3

Approvals: IEC60282-1, IEC644 & BS5907.

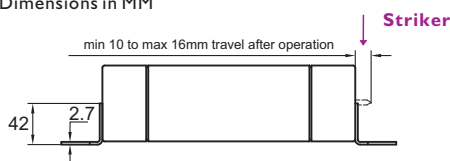
Notes: Fuses are made in accordance with BS2692-1 dimensions.



Dimensions in MM



Features: Striker pin



DIN BACK UP FUSES (3 / 7.2kV)



Features: Thermal striker 80N

Dimensions in MM

Standard Range:		Factory	Ampere		Body	Overall	Diameter
Part Number	Reference	Rating	Rating	I.R.	Length	Length	"D"
19272BT2	004226003	2A	50kA	192	258	53	
19272BT4	004226004	4A	50kA	192	258	53	
19272BT6	004226005	6A	50kA	192	258	53	
19272BT10	004226006	10A	50kA	192	258	53	
19272BT16	004226007	16A	50kA	192	258	53	
19272BT20	004226008	20A	50kA	192	258	53	
19272BT25	004226009	25A	50kA	192	258	53	
19272BT32	004226010	32A	50kA	192	258	53	
19272BT40	004226011	40A	50kA	192	258	53	
19272BT50	004226012	50A	50kA	192	258	68	
19272BT63	004226013	63A	50kA	192	258	68	
19272BT80	004226014	80A	50kA	192	258	68	
19272BT100	004226015	100A	50kA	192	258	85	
19272BT125	004226016	125A	50kA	192	258	85	
19272BT160	004226017	160A	50kA	192	258	85	



Alternate Ranges:

29272BT / amp	0042265xx	2A - 50A	50kA	292	358	53
29272BT / amp	0042265xx	63A - 100A	50kA	292	358	68
29272BT / amp	0042265xx	125A - 250A	50kA	292	358	85
44272BT / amp	0042266xx	2A - 125A	50kA	442	508	68
44272BT / amp	0042266xx	160A - 315A	50kA	442	508	85

DIN BACK UP FUSES (6 / 12kV)



Features: Thermal striker 80N

Dimensions in MM

Standard Range:		Factory	Ampere		Body	Overall	Diameter
Part Number	Reference	Rating	Rating	I.R.	Length	Length	"D"
29212BT2	004236003	2A	63kA	292	358	53	
29212BT4	004236004	4A	63kA	292	358	53	
29212BT6	004236005	6A	63kA	292	358	53	
29212BT10	004236006	10A	63kA	292	358	53	
29212BT16	004236007	16A	63kA	292	358	53	
29212BT20	004236008	20A	63kA	292	358	53	
29212BT25	004236009	25A	63kA	292	358	53	
29212BT32	004236010	32A	63kA	292	358	53	
29212BT40	004236011	40A	63kA	292	358	53	
29212BT50	004236012	50A	63kA	292	358	68	
29212BT63	004236013	63A	63kA	292	358	68	
29212BT80	004236014	80A	63kA	292	358	68	
29212BT100	004236015	100A	63kA	292	358	85	
29212BT125	004236016	125A	63kA	292	358	85	
29212BT160	004236017	160A	63kA	292	358	85	
29212BT200	--	200A	63kA	292	358	88	



Alternate Ranges:

19212BT / amp	0042361xx	2A - 16A	50kA	192	258	53
19212BT / amp	0042361xx	20A - 50A	50kA	192	258	68
44212BT / amp	0042365xx	2A - 50A	63kA	442	508	53
44212BT / amp	0042365xx	63A - 100A	63kA	442	508	68
44212BT / amp	0042365xx	125A - 200A	63kA	442	508	85
53712BT / amp	0042366xx	160A - 250A	63kA	537	603	85

RELATED PRODUCTS:



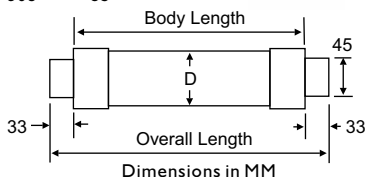
Clips (p114)



Bases (p114)



Extension Caps (p149)



DIN BACK UP FUSES (10 / 24kV)



Features: Thermal striker 80N

Dimensions in MM

Standard Range:	Factory Reference	Ampere Rating	I.R.	Body Length	Overall Length	Diameter "D"
44224BT2	004256003	2A	63kA	442	508	53
44224BT4	004256004	4A	63kA	442	508	53
44224BT6	004256005	6A	63kA	442	508	53
44224BT10	004256006	10A	63kA	442	508	53
44224BT16	004256007	16A	63kA	442	508	53
44224BT20	004256008	20A	63kA	442	508	53
44224BT25	004256009	25A	63kA	442	508	53
44224BT32	004256010	32A	63kA	442	508	53
44224BT40	004256011	40A	63kA	442	508	53
44224BT50	004256012	50A	63kA	442	508	68
44224BT63	004256013	63A	63kA	442	508	68
44224BT80	004256014	80A	63kA	442	508	68
44224BT100	004256015	100A	63kA	442	508	85
44224BT125	004256016	125A	63kA	442	508	85

Alternate Ranges:

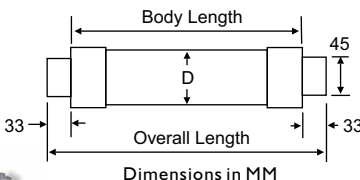
29224BT/ amp	0042561xx	2A - 16A	31.5kA	292	358	53
29224BT/ amp	0042561xx	20A - 32A	31.5kA	292	358	68
29224BT/ amp	0042561xx	40A - 63A	31.5kA	292	358	85
53724BT/ amp	0042565xx	2A - 40A	63kA	537	603	53
53724BT/ amp	0042565xx	50A - 100A	63kA	537	603	68
53724BT/ amp	0042565xx	125A - 160A	63kA	537	603	85

Pack Size (box): 3

Standard Striker: 50N (Indent)

Thermal Striker: 80N (Stocked), 120N (Indent)

Approvals: IEC 60282-1, DIN 43625, VDE 0670 T402 / IEC 60787, IEC 60644, IEC 60549. Standard range fuses comply with IEC 60282-1 dimensions.



RELATED PRODUCTS:



Clips: (p114)



Holders: Bases (p114)



Extension Caps (p149)



DIN LIQUID-IMMERSED TRANSFORMER FUSES



Features: Thermal striker 80N

Dimensions in MM

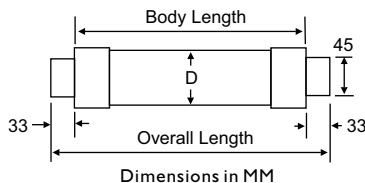
Part Number	Factory Reference	Ampere Rating	Voltage	I.R.	Body Length	Overall Length	Diameter "D"
29212LQ/ amp	0042369xx	2A - 40A	6/12kV	50kA	292	358	53
29224LQ/ amp	0042569xx	2A - 16A	10/24kV	50kA	292	358	53
44224LQ/ amp	0042569xx	2A - 40A	10/24kV	50kA	442	508	53

Pack Size (box): 3

Thermal Striker: 80N

Holders: Clips (p114)

Approvals: IEC 60282-1, DIN 43625, VDE 0670 T402 / IEC 60787, IEC 60644, IEC 60549.



RELATED PRODUCTS:



Clips: (p114)



MEDIUM VOLTAGE

VOLTAGE TRANSFORMER FUSES (AIR)

EAT·N Bussmann

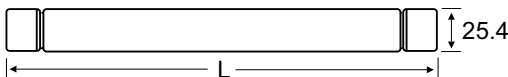
Bussmann manufacture a wide range of voltage transformer (VT) fuse links. In North America they are referred to as Potential Transformer fuses. These fuse links are designed for use in the primary side of voltage transformers to provide system isolation in the event of faults occurring in the transformer circuit. Voltage transformer fuse links, have a preferred current rating of 3.15A. Experience has shown that there is a risk of spurious operation by transient overcurrents where lower current ratings are used. In addition, in order to minimise the risk of deterioration of the fine fuse elements caused by corona, it is desirable to mount the fuse links so that the earthed metal is not in the immediate vicinity of the part of the barrel between the ferrules. Higher current and 'E' ratings are available for special applications, including auxiliary transformers. A range of VT fuse links with a breaking capacity of 200kA for use at the output terminals of large turbo alternators can also be ordered.

Part Number	Ampere Rating	Voltage	I.R.	Length "L" (mm)
3.6ABWNA3.15	3.15A	3.6kV	50kA	142
3.6ABWNA6.3	6.3A	3.6kV	50kA	142
3.6ABCNA3.15	3.15A	3.6kV	50kA	195
3.6ABCNA6.3	6.3A	3.6kV	50kA	195
3.6ABCNA10	10A	3.6kV	50kA	195
7.2VTBNNI	1A	7.2kV	45kA	142
7.2ABWNA3.15	3.15A	7.2kV	45kA	142
7.2ABWNA6.3	6.3A	7.2kV	45kA	142
7.2VTDNN0.62	620mA	7.2kV	45kA	195
7.2ABCNA3.15	3.15A	7.2kV	45kA	195
7.2ABCNA6.3	6.3A	7.2kV	45kA	195
12VTDNN0.5	500mA	12kV	45kA	195
12VTDNN0.62	620mA	12kV	45kA	195
12VTDNNI	1A	12kV	45kA	195
12ABCNA3.15	3.15A	12kV	45kA	195
24ABGNA3.15	3.15A	24kV	25kA	359

Pack Size (box): 1

Notes: Suitable for use in air only.

Approvals: BS2692-1 & IEC60282-1



RELATED PRODUCTS:

Holders: Clips (p113)



VOLTAGE TRANSFORMER FUSES (OIL & AIR)

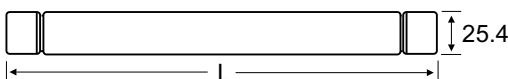
EAT·N Bussmann

Part Number	Ampere Rating	Voltage	I.R.	Length "L" (mm)
7.2OBWNA3.15	3.15A	7.2kV	45kA	142MM
7.2OBWNA6.3	6.3A	7.2kV	45kA	142MM
7.2OBCNA3.15	3.15A	7.2kV	45kA	195MM
7.2OBCNA6.3	6.3A	7.2kV	45kA	195MM
12OBCNA3.15	3.15A	12kV	45kA	195MM
24OBGNA3.15	3.15A	24kV	25kA	359MM
36OBGNA3.15	3.15A	36kV	31.5kA	359MM

Pack Size (box): 1

Notes: Suitable for use in air and under oil.

Approvals: BS2692-1 & IEC60282-1



RELATED PRODUCTS:

Holders: Clips (p113)



Fuse Holders & Terminal Blocks



Fuse Carrier



Terminal Blocks



NH Fuse Disconnect Switch

Clips

Cartridge Fuses
Medium Voltage Fuses
Automotive Blade Fuses

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PCB Mnt. Holders

Automotive Blade Fuses
Cartridge Fuses

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Panel Mnt. Holders

Cartridge Fuses

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In-Line Holders

Cartridge Fuses
Automotive Fuses

Page

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123

Blocks & Bases

Cartridge Fuses
Automotive Fuses
Bolted Tag Fuses
Bottle Fuses
NH Blade Fuses
NH PV Blade Fuses

Page

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124 - 126
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132
138 - 139
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Fuse Carriers

Cartridge Fuses
BS88 Offset Tag Fuses
BS88 Bolted Tag Fuses

Page

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129 & 131

Disconnectors

Cartridge Fuse
NH & PV Blade Fuses

Page

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141 - 143

Power Distribution

Double Row Terminal Block
Power Distribution Module
Terminal Blocks
Blade Fuse Terminal Blocks
Cartridge Fuse Terminal Blocks
Power Distribution Blocks

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5MM DIAMETER PCB MOUNT FUSE CLIP

PROLEC

Part Number	Style
FC-04	End Stop

Rating: 10A (max)

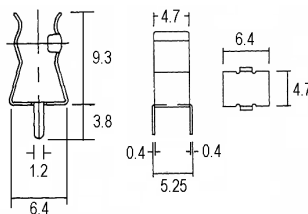
Material: Spring Brass, Tin plated.

Suit Fuse: 5 x 20mm, 5 x 25mm, 5 x 30mm.

Pack Size (bag): 100, 1000

Approvals:  RoHS

Dimensions in MM



5MM DIAMETER PCB MOUNT FUSE CLIP

EATON Bussmann

Part Number	Style
HTC-211M	End Stop

Material: Spring Brass, Tin plated.

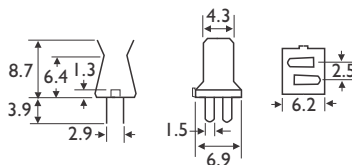
Pack Size (bag): 100, 1000

Notes: Replaces HTC-210M

Suit Fuse: 5 x 20mm, 5 x 25mm, 5 x 30mm.

Approvals:  RoHS

Dimensions in MM



5MM DIAMETER PCB MOUNT FUSE CLIP (TAPED)

EATON Bussmann

Part Number	Style
HTC-200M	End Stop

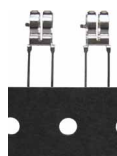
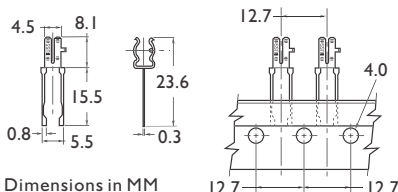
Material: Tin plated bronze.

Suit Fuse: 5 x 20mm, 5 x 25mm, 5 x 30mm.

Pack Size (reel): 1000

Approvals:  RoHS

Dimensions in MM



5MM DIAMETER PCB MOUNT FUSE CLIP

Littelfuse

Part Number	Rating	VAC/VDC	Clip Material
01000056	10A	250	Spring Brass

Plating: Tin plated

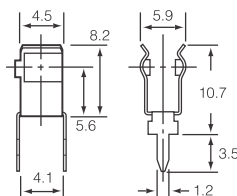
Style: End Stop

Pack Size (bag): TBC

Suit Fuse: 5 x 20mm, 5 x 25mm, 5 x 30mm.

Approvals:  E14721 (100020 Only)  RoHS

Dimensions in MM



6.3MM DIAMETER LOW PROFILE PCB MOUNT FUSE CLIP

Littelfuse

Part Number	Style
01020080	End Stop

Rating: 15A

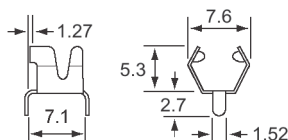
Material: Spring Brass, Tin plated.

Pack Size (bag): TBC

Suit Fuse: 6.35 x 25.4mm, 6.35 x 31.75mm.

Approvals:  E14721 (100020 Only)  RoHS

Dimensions in MM



6.3MM DIAMETER PCB MOUNT FUSE CLIPS



Part Number	Style
FC-101	End Stop

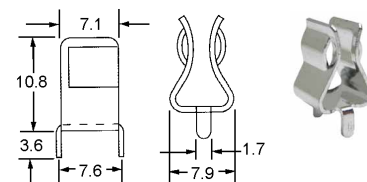
Rating: 15A

Material: Brass, Tin plated

Pack Size: 100, 1000

Suit Fuses: 6.35 dia. 1AG, 2AG, 3AG, 7AG, 8AG, SFE

Approvals: [RoHS](#)



Dimensions in MM

10.3MM DIA. PCB MOUNT FUSE CLIPS - MIDGET FUSES



NEW

Part Number	Style
BC800	End Stop

Rating: 32A

Material: Brass, Tin plated

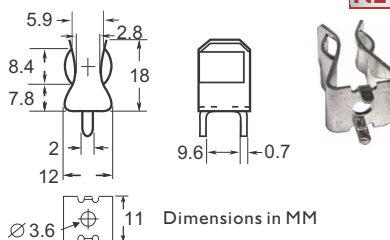
Pack Size: 2, 10, 100, 500, 1000

Suit Fuse: 10.3mm dia. 5AG, 5AB Styles.

EV Automotive, Industrial Cartridge, PV Solar

and Semiconductor Cartridge Fuses.

Approvals: [RoHS](#)



Dimensions in MM

25.4MM DIA. SCREW MOUNT FUSE CLIPS - VT MV FUSES

Bussmann

Part Number	Style
A3354705	End Stop

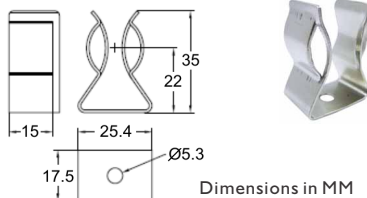
Rating: TBA

Material: Nickel Silver Alloy

Pack Size: 2, 10, 50, 100

Suit Fuse: 25.4mm dia. Voltage Transformer fuses (p110).

Approvals: [RoHS](#)



Dimensions in MM

51MM to 76MM DIA. FUSE CLIPS - BS2692 MV FUSES

Bussmann

Part Number	Ampere Rating	Suit Fuse Diameters
A3354710	200A	51mm
A3354720	200A	63.5mm
A3354730	200A	76mm

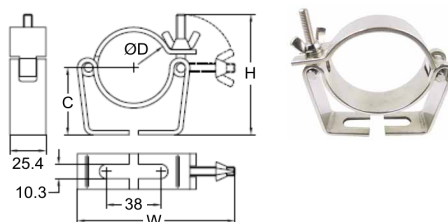
Material: Nickel Plated Copper

Pack Size: 2

Suit Fuse: Medium Voltage fuses

British BS 2692-1 (p104-105).

Approvals: [RoHS](#)



Dimensions in MM

Ferrule Fuse Types	Suit Fuse Diameters	Dim. "H"	Dim. "W"	Dim. "C"
British Air	51mm	86	112	48
British Oil	63.5mm	95	124	54
British Air	76mm	100	140	58

HOLDERS

45MM DIAMETER FUSE CLIPS - DIN STD MV FUSES



Part Number	Description
004349016	Universal Clip
004349015	Universal Clip with Tail

Voltage: 7.2kV to 36kV

Pack Size: 1 clip (Order 2 clips for each fuse).

Fixing Hardware: Not included.

Mounting: Stud mount.

Usage: Suits indoor & outdoor environments.

Suits: DIN standard medium voltage ferrule fuses.

Notes: Please contact sales for further information.



Universal Clips



Universal Clip with Tail
M10 screw connection

RELATED PRODUCTS:



DIN MV Fuses (p106, 108-109)

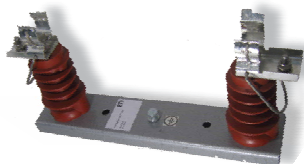
45MM DIAMETER FUSE BASES - DIN STD MV FUSES



These single pole stud mount fuse bases are designed for use with DIN Backup fuses. Each base is designed to accommodate a specific fuse body length & voltage.

Indoor Mounting Fuse Base

Part Number	Voltage	Fuse Body Length
004229010	7.2kV	192mm
004239010	12kV	292mm
004259010	24kV	442mm



Single Pole Fuse Base

Indoor Mounting Fuse Base with Microswitch

Part Number	Voltage	Fuse Body Length
004349019	7.2kV	192mm
004349020	12kV	292mm
004349022	24kV	442mm

Outdoor Mounting Fuse Base

Part Number	Voltage	Fuse Body Length
004229030	7.2kV	192mm
004239030	12kV	292mm
004259030	24kV	442mm



Single Pole Fuse Base
with Microswitch Fuse Monitoring.
(Fuse not included).

Safety Information: Fuse bases designed for indoor use may not be used outdoors. Fuse bases may not be adjusted to a different length by user.

Notes: Please contact sales for further information.

RELATED PRODUCTS:



DIN MV Fuses (p106, 108-109)

M205 PCB MOUNT FUSE BLOCK

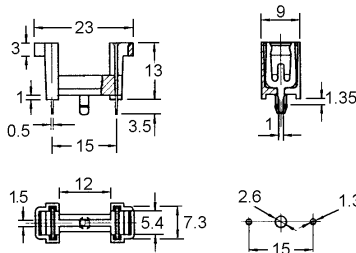
PROLEC

Part Number	Description
PTF/60	Base

Rating: 20A (UL) 6.3A (VDE)
Voltage: 250V
Body: PBT UL 94 V0 (White)
Suit Fuse: 5 x 20mm
Pack Size (bag): 10, 100, 1000
Approvals:   UL4248-I 

RELATED PRODUCTS:

Fuses: M205 glass/ceramic
 See pages 14-15



Dimensions in MM

Mounting Pattern

M205 PCB MOUNT FUSE BLOCK & COVER

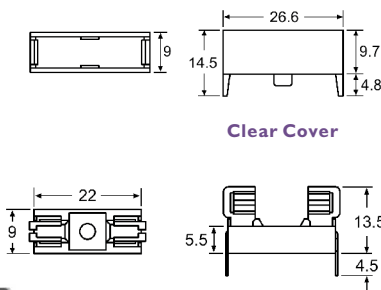
PROLEC

Part Number	Description
BSI40NA	Clear Cover
PTF/15	Base

Rating: 18A (UL) 6.3A (VDE)
Voltage: 250V
Cover: Transparent PC - UL 94 V2
Block: Yellow PPOM - UL 94-VI
Suit Fuse: 5 x 20mm
Pack Size (bag): 10, 100, 1000
Approvals:   UL4248-I 

RELATED PRODUCTS:

Fuses: M205 glass/ceramic
 See pages 14-15



Clear Cover

Assembled Holder

PCB Mount Base

Mounting Pattern

Dimensions in MM

M205 PCB MOUNT FUSE BLOCK

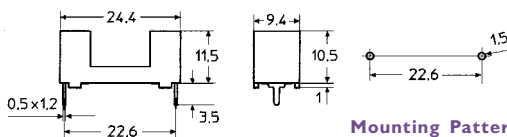
PROLEC

Part Number	Description
PTF/78	Base

Rating: 20A (UL) 6.3A (VDE)
Voltage: 250V
Block: Green PA - UL 94 V0
Terminals: Nickel plated brass
Suit Fuse: 5 x 20mm
Pack Size (bag): 10, 100, 1000
Approvals:   UL4248-I 

RELATED PRODUCTS:

Fuses: M205 glass/ceramic
 See pages 14-15



Dimensions in MM

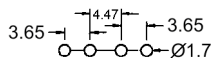
Mounting Pattern

HOLDERS

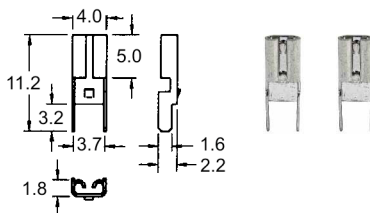
Part Number
FC-MINV

Rating: 15A
Mounting: Vertical PCB mount
Material: Tin plated spring brass
Pack Size: Please call sales
Approvals: 

Mounting Pattern



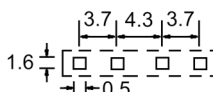
Dimensions in MM



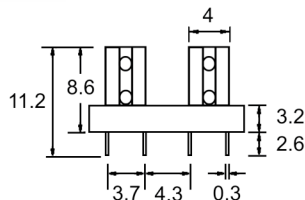
Part Number
FCB-26

Rating: 15A
Voltage: 250V
Body: Black thermoplastic (UL 94V0)
Pack Size: 10, 100, 1000
Clip Material: Tin plated brass.
Notes: Minifuse is not included.
Approvals: 

Mounting Pattern



Dimensions in MM



RELATED PRODUCTS:

Fuses: Minifuse (p26)



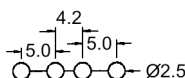
AUTOFUSE PCB MOUNT CLIPS & BASES

PROLEC

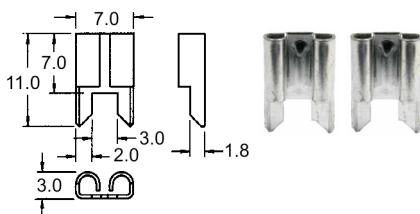
Part Number
100057

Rating: 15A
Mounting: Vertical PCB mount
Material: Tin plated brass
Pack Size: 10, 100, 1000
Approvals: 

Mounting Pattern



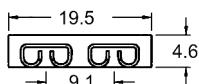
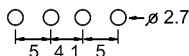
Dimensions in MM



Part Number
FCB-25

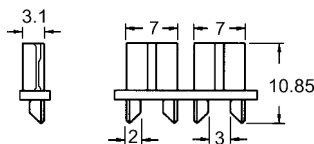
Rating: 20A
Voltage: 250V
Body: Black thermoplastic (UL 94V0)
Pack Size: 10, 100, 1000
Clip Material: Tin plated brass
Notes: Autofuse is not included.
Approvals: 

Mounting Pattern



RELATED PRODUCTS:

Fuses: Autofuse (p26)



AUTOFUSE PCB MOUNT HOLDER



Part Number	Description
00420	Fuseholder
00359	Clear cover

Rating: 15A

Voltage: 32VDC

Terminals: Tin plated phosphor bronze,
Inox-steel clip.

Body: Black PA66, UL94 V2

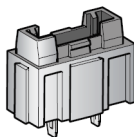
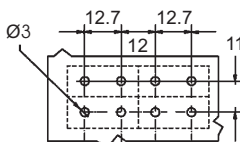
Cover: Transparent PC

Pack Size: 5, 1000

Feature: This holder is a gangable so it can be stacked end to end or side to side.

Notes: Auto fuse is not included.

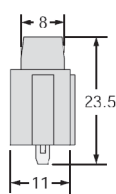
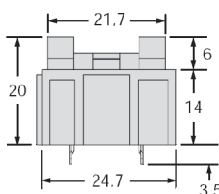
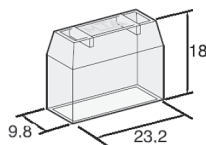
Mounting Pattern Multiple Units:



00420



00359



Dimensions in MM

M205 PCB MOUNT FUSE HOLDER



Part Number	Factory Code	Description
FH-PCV	PTF/45	Vertical Mount
FH-PCO	PTF/50	Horizontal Mount

Rating: 20A (UL) 10A (VDE)

Voltage: 250V

Body Colour: Black

Flammability: UL 94 VO

Pack Size (box): 10, 100, 1000

Notes: Fuse is not included.

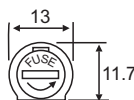
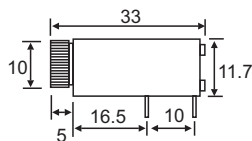
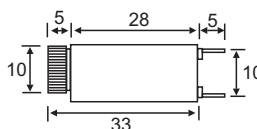
Approvals: UL4248-I



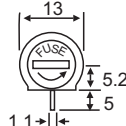
FH-PCV
(Vertical Mount)



FH-PCO
(Horizontal Mount)



Dimensions in MM

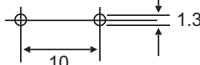


RELATED PRODUCTS:



M205 Fuses
(See p14 - 15)

Mounting Pattern



3AG PCB MOUNT FUSE HOLDER



Part Number	Description
HBH-I-R	Horizontal Mount Fuse Holder

Rating: 16A (UL)

Voltage: 250V

Pack Size (bag): 10, 100

Knob: Screw driver slot

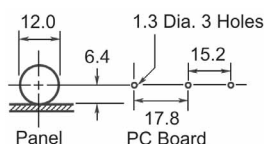
Terminal: Kicked terminals.

Flammability: UL 94 VO

Approvals:



Mounting Pattern

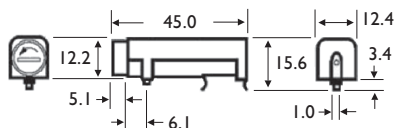


Panel

PC Board



(Horizontal Mount)



Dimensions in MM

SCREW TYPE DOUBLE ROW BARRIER TERMINAL BLOCKS

EATON Bussmann

Dimensions in MM

Part Number	Description	A	B
TB300-04B	4 Poles	82.6	71.4
TB300-06B	6 Poles	111.1	100.2
TB300-08B	8 Poles	139.8	128.6
TB300-10B	10 Poles	168.3	157.3
TB300-12B	12 Poles	197.0	185.8
J301-J	Jumper 30A	Flat Slip On	



Jumper



Terminal Block

Rating & Voltage: 30A at 600V

Wire Range: # 8 - 22 AWG CU (TB300 series)

Screw Size: #8-32 Philslot screws (TB300 series)

Operating Temperature: -40°C to 130°C

Base: UL rated 94V0 thermoplastic (black)

Terminal: Tin plated brass

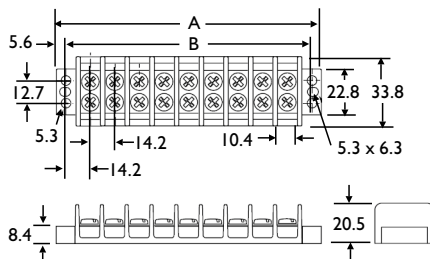
Screws: Nickel plated brass (Philslot) screws included.

Pack Size: Please call sales.

Breakdown Voltage: 7500V (TB300 series)

Note: Jumpers allow creation of common circuits.

Approvals:



3AG SCREW MOUNT FUSE BLOCKS

EATON Bussmann

Part Number	Terminal
S-8002-1-R	Solder terminal, 40°, 30A
S-8202-1-R	1/4" Quick Connect, 40°, 30A
S-8301-1-R	Screw terminal, straight, 30A

Voltage: 300VAC / 300VDC

Body: Flame retardant thermoplastic UL 94 VO

Clips: Spring Bronze, Tin-Lead plated

Pack Size: Please call sales

Notes: Multipole versions available up to 12 poles in breakaway design. Single pole blocks may be ordered without the anti-rotational pin (by adding an 'X' to the part number eg. S-8002-1X). Contact sales for further information.

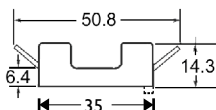
Notes: Fuse is not included.

Approvals:

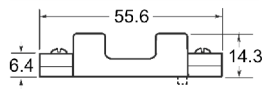
Solder Terminal



Quick Connect



Screw Terminal

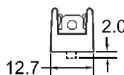
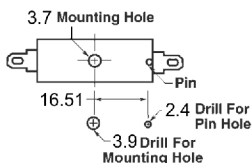


Dimensions in MM

RELATED PRODUCTS:



Fuses: 3AG / 3AB p16-17



3AG LOW PROFILE PANEL MOUNT FUSE HOLDER

Part Number
05-006

Rating: 10A

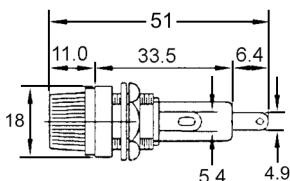
Voltage: 250VAC

Pack Size (bag): 10, 100, 1000

Hardware: Includes washers & metal nut.

Notes: Fuse is not included.

Approvals:



Dimensions in MM

PROLEC



Mounting Hole



Part Number	Fuse Type	Knob Type	Terminal Type / Angle	Rating (UL)
HTB-24M-R	M205	Fingergrip	Q/C 4.8mm or Solder, Right	16A @ 250V
HTB-34M-R	M205	Screwdriver	Q/C 4.8mm or Solder, Right	16A @ 250V
HTB-22I-R	3AG	Fingergrip	Q/C 4.8mm or Solder, Straight	20A @ 250V
HTB-34I-R	3AG	Screwdriver	Q/C 4.8mm or Solder, Right	20A @ 250V
HTB-26I-R	3AG	Fingergrip	Q/C 6.35mm, Straight	20A @ 250V

IPxx
Optional

Voltage: 250V

Terminals: Tin plated brass.

Mounting Standard: Low profile, rear hex nut.

Mounting Option: High profile also available, please contact sales.

Ambient Temperature: -55°C to +85°C.

Body: High temperature, flame retardant thermoplastic UL 94V0.

Accessories: Includes plastic nut and spacer.

Options: Finger-grip type holders may be ordered with 'splash proof' knob (by adding 'SP' to the part number eg. HTB-22ISP).

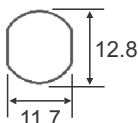
Spare nuts also available in plastic or metal.

Pack Size: 10, 100

Notes: Fuse is not included.

Approvals:      

Mounting Hole Double D



Max. Panel Thickness: 7.62mm

Terminal Options



Straight 4.8mm (3/16")
Quick Connect (Q/C) or
Solder



Right 4.8mm (3/16")
Quick Connect (Q/C) or
Solder



Straight 6.35mm (1/4")
Quick Connect (Q/C)



Right 6.35mm (1/4")
Quick Connect (Q/C)

RELATED PRODUCTS:

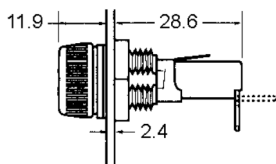


M205 Fuses
(p14-I5)

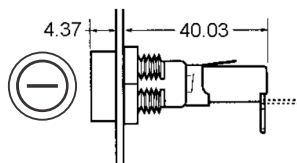


3AG Fuses
(p16-I7)

Finger Grip Knob



Screwdriver Knob



Dimensions in MM

3AG FUSE HIGH PROFILE PANEL MOUNT HOLDER

Part Number
HKP

Rating: 30A

Voltage: 250V

Pack Size (bag): 10, 100

Knob: Bayonet type knob

Notes: Vibration resistant

Notes: Fuse is not included.

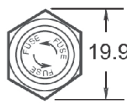
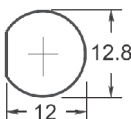
Approvals:    Optional

RELATED PRODUCTS:

Fuses: 3AG / 3AB (p16-I7)



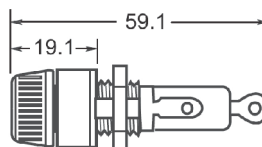
Mounting Hole Single D



Dimensions in MM



Finger Grip Knob



3AG SPLASH PROOF PANEL MOUNT FUSE HOLDER



Part Number
03420006H

Rating: 20A

Voltage: 250V

Body: Black thermoset **Knob Type:** Finger grip

Terminals: Tin plated, copper & copper alloy.

Terminal Type: Solder

Seal: O-ring provides a watertight seal on the front side of the panel per MIL-PRF-19207.

Panel Thickness: 6.35mm (max)

Flammability: UL 94 V0

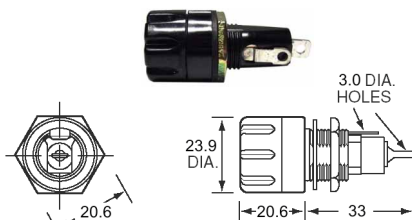
Accessories: Includes metal hex nut & two "O" rings.

Pack Size (bag): 10, 100

Approvals:

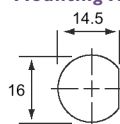
RELATED PRODUCTS:

Fuses: 3AG / 3AB p16-17



Dimensions in MM

Mounting Hole



10.3 x 38.1MM PANEL MOUNT FUSE HOLDER



Part Number
HPF

Rating: 30A (20A max when using Q.C. terminals),

Voltage: 600V

Terminals: Q.C. plug (6.35mm) or solder compatible.

Flammability: UL 94 HB **Body:** Black

Panel Thickness Maximum: Mounting flange behind the panel, 5.08mm/0.200" (Flush to knob collar).

Pack Size (bag): 1, 10, 100

Approvals:

RELATED PRODUCTS:

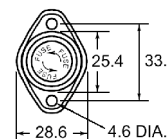
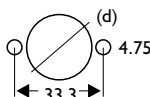


Fuses: Midget p70-74

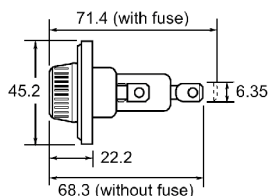
Mounting Hole Flange

Front of Panel (d) = 22.6mm

Rear of Panel (d) = 26.2mm



Dimensions in MM



3AG 32V IN-LINE HOLDER



Part Number **Holder Type**
155120A Twist Lock Connection

Rating: 20A

Voltage: 32V

Body: Black thermoplastic

Rivets: Tin plated brass

Wire Thickness: 2mm² (#14 AWG)

Wire Length: 200mm loop

Pack Size (bag): 10, 100, 1000

Options: Unassembled version also available.

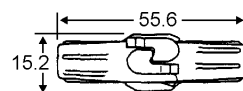
Notes: Contact sales for further information.

RELATED PRODUCTS:

Fuses: 3AG / 3AB p16-17



Dimensions in MM



3AG 32V IN-LINE HOLDER

EATON Bussmann

Part Number	Holder Type
HHB-R	Snap-lock

Rating: 30A

Voltage: 32VAC

Body: Nylon (high visibility yellow colour)

Crimp: Simple crimp assembly, copper tin plated.

Flammability: UL 94 V2

Wire Thickness: Accepts 1 - 3mm² (# 16-12 AWG copper wire). Wire not included.

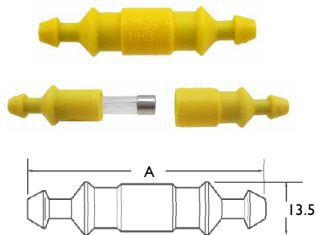
Crimp Tools: Thomas & Betts ERG-2001, Channellock No.909, General Electric - U.S. & Metric Electrical Terminal Tool.

Assembled Holder Option: Can be ordered assembled with # 14 AWG insulated leads in lengths of either 204mm or 483mm (lead colour options; red, black, yellow). Contact sales for further information.

Pack Size: 1, 10, 100

Notes: Snap-lock connection. Suits all fuse types 7AG, 8AG and 3AG.

Approvals: 



Dimensions in MM

With Fuse Installed	"A" Dimension
7AG (AGW)	53.34mm
8AG (AGX)	57.19mm
3AG (AGC)	61.5mm

3AG 32V SPLASH PROOF IN-LINE HOLDER

EATON Bussmann

IPxx

Part Number	Holder Type
HFB-R	Push Together

Rating: 30A

Voltage: 32V

Body: Yellow Thermoplastic Rubber (one piece)

Contacts: Tin plated copper

Flammability: UL 94 HB

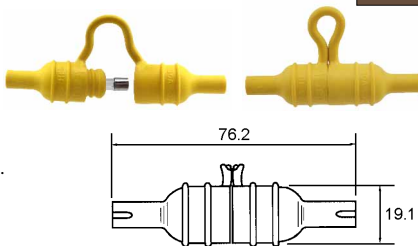
Wire Thickness: 0.8 - 3mm² (# 12 - 18 AWG) Wire not included.

Pack Size (bag): 10, 100, 1000

Crimp Tools: Thomas & Betts - WT-11-M, Radio Shack 64-409.

Notes: Withstands many organic solvents, rigorous shock and vibration. High visibility yellow colour.

Approvals: 



Dimensions in MM

3AG 250V WATERPROOF IN-LINE HOLDERS

EATON Bussmann

IPxx

Part Number	Holder Type
HFA-R	Bayonet Type

Rating: 20A

Voltage: 250V

Body: Phenolic

Flammability: UL 94 HB

Temperature Rating (RTI): 150°C

Contacts: Copper crimp

Terminal Type: Crimp

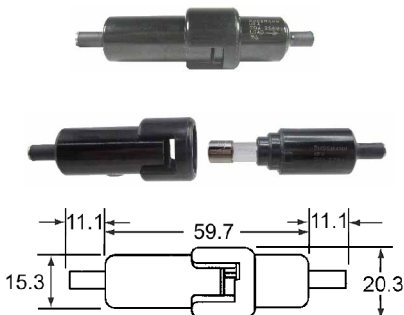
Wire Thickness: 1 - 3mm² (# 12 to # 16AWG) Wire not included.

Crimp tools: Thomas & Betts (WT-112M or ERG-2002), Channellock No. 909.

Pack Size (bag): 10, 100, 1000

Approvals: 

HFA-R recognized with use of No. 12 AWG copper conductors secured with Thomas & Betts crimping tool (WT-180).



Dimensions in MM

RELATED PRODUCTS:

Fuses: 3AG / 3AB p16-17



3AG 250V / 500V IN-LINE FUSE HOLDERS



NEW

Features:

- High voltage rating accommodates many power applications.
- Single piece molded body minimizes component count.
- Wire leads are pre-attached to fuse clips for quick assembly.
- UL Recognized.

Part Number	LF Number	Description
I50322	01500322H	15A 500VAC/125VDC
I50332	01500332H	15A 250V

Terminals: Tin plated brass.

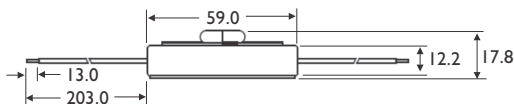
Wire Gauge: 0.8mm² (#18 AWG) Black, 150°C stranded.

Wire Length: 200mm each side of the body included.

Pack Size (bag): 10, 100, 1000

Note: 3AG fuse not included.

Approvals: UL Recognised EI4721



Dimensions in MM

RELATED PRODUCTS:

Fuses: 3AG / 3AB see p16-18



10.3 x 38.1MM IN-LINE FUSE HOLDERS



Bussmann

IP67

Optional*

Part Number	Description	Product Notes
HEB-AA	One Pole Inline Fuse Holder 1.5-6mm ²	No boots included.
HEB-AW-RLC-A	One Pole Breakaway Inline Fuse Holder 1.5-6mm ²	Includes 2 x boots.
2A0660	Single Insulating Boot.	Order 2pcs per holder.

Rating: 30A (max)

Voltage: 600VAC / 1000VDC (Factory self certified)

Suit Fuse: Midget Fuses (10.3 x 38.1mm)

Crimp Terminals: Solid or stranded cable.

1 cable (#8AWG - #16AWG) per terminal

Options: Double pole holders. Wide range of

terminal options to suit different wire sizes & fixing.

Notes: Contact sales for complete specifications and

part number breakdown. *UL IP67 with boots fitted.

When using insulating boots, extra heat retention

requires that fuses are sized at a minimum of 200% of

the RMS load current. Included with breakaway

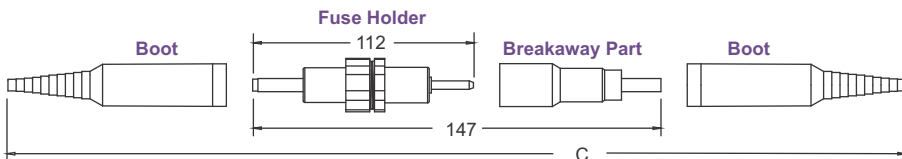
holders, optional for non-breakaway holders.

Approvals:

HEB Fuse Holder



Insulating Boots



RELATED PRODUCTS:

Part Number	Assembled C
HEB-AA	232mm
HEB-AW-RLC-A	263mm



Midget Fuses
Pages 70-74



PV Fuses
Pages 38-39



Neutral Links
Page 78

MINIFUSE SPLASH PROOF IN-LINE FUSE HOLDERS



Part Number	Ampere Rating
FHM001	20A
FHM002	30A

IP67

Voltage: 32V

Body: Black alcryn thermo plastic

Ambient Temp: -10°C to +80°C

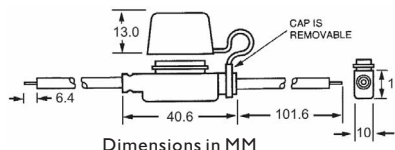
Pack Size (bag): 10, 100, 1000

Wire: 1.2mm² (#16-14AWG stranded wire) # FHM001

3.5mm² (#12AWG stranded wire) # FHM002

Notes: This fuse holder is splash-proof. The cover permits the use of Minifuse's in harsh environment applications. Fuse not included.

Approvals: RoHS



AUTOFUSE SPLASH PROOF IN-LINE FUSE HOLDERS



Part Number	Ampere Rating
FHAC001	20A
FHAC002	30A

IP67

Voltage: 32V

Body: Black thermo plastic

Wire: 1.3mm² (#16AWG stranded wire) #FHAC001

3.3mm² (#12AWG stranded wire) #FHAC002

Pack Size: 1, 10, 100, 1000

Notes: This fuse holder is splash-proof. The cover permits the use of Autofuse's in harsh environment applications. Fuse not included.

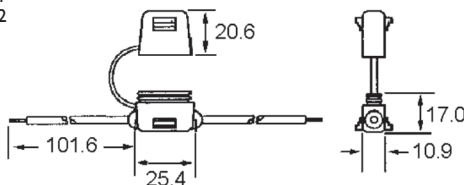
Approvals: RoHS



FHAC001



FHAC002



AUTOFUSE / BLADED BREAKER IN-LINE HOLDER



Part Number	Description
FHU002L	30A Universal Holder

NEW

IP67

Voltage: 32V

Body: Black waterproof inline fuse holder.

Body Seal: Silicone gasket.

Cover: Clear cover with lock and mounting hole.

Suits: Auto and Mini Blade Fuses

LED Auto and LED Mini Blade Fuses

Auto and Mini Circuit Breakers.

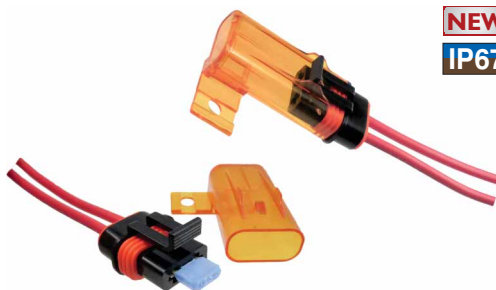
Pack Size: 1, 10, 100, 500

Wire: 3.0mm² (#12AWG).

Wire Length: 2 x 305mm lengths of wire.

Notes: Fuse & breakers are not included.

Approvals: RoHS



RELATED PRODUCTS:



Mini Fuse
Page 26



Mini LED Fuse
Contact sales



Mini Breaker
Page 30



Auto Fuse
Page 26

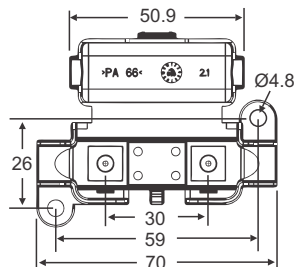
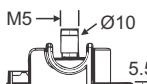


Auto LED Fuse
Contact sales



Auto Breaker
Page 30

Approvals: RoHS



Dimensions in MM

32V Midi Fuse
(see p.28)

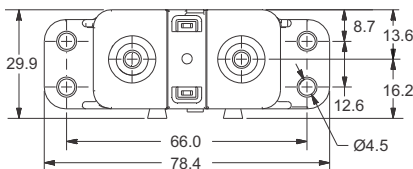
Littelfuse®

Part Number	Description
04981038	Fuse Block with M5 Studs & Cover
882-267-002	Busbar 2 holes - (spans 2 modules)
882-267-003	Busbar 3 holes - (spans 3 modules)
882-267-004	Busbar 4 holes - (spans 4 modules)
882-267-005	Busbar 5 holes - (spans 5 modules)

Notes: The holders feature a stackable side design to allow multiple holders to be joined together. Fuses are not included.



Fuse Block



Dimensions in MM



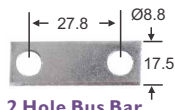
32V Midi Fuse
(see p.28)



58V Midi Fuse
(see p.28)



Did you know? The dovetail features allow you to interlock multiple FLEX-MIDI holders together for a high power distribution block including MEGA-FLEX, HWB60-AL, HWA20, FLEC & EPC.



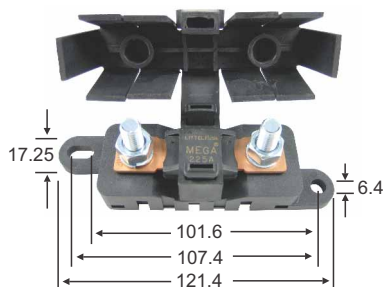
MEGA FUSE MULTI-POLE DISTRIBUTION BLOCK



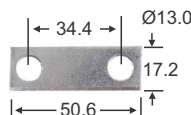
The MEGA-Flex fuse block is used with the MEGA bolt-in fuse, available in ratings 40A to 500A. This block features a flexible cover which allows cable entry from virtually any direction, large wire size, and ring terminal stack up. Slots on the base allow holder to be mounted with cable ties or surface mount using standard screw holes. Bus bars are also available for common power feed across multiple holders. Dovetail features allow you to interlock multiple blocks together for a high power distribution block or it can interlock with other Littelfuse products including FLEC, EPC, HWA20, HWB60-AL & Midi-Flex.

Part Number	Description
02981028	Fuse Block with M8 Studs & Cover
882-839-2	Busbar 2 holes - (spans 2 modules)
882-839-3	Busbar 3 holes - (spans 3 modules)
882-839-4	Busbar 4 holes - (spans 4 modules)
882-839-5	Busbar 5 holes - (spans 5 modules)

Voltage: 70VDC **Rating:** 500A
Base: Black UL 94V-0 Glass-filled PPA.
Cover: Black flexible UL94V-0 Elastomer. Red colour optional.
Studs: M8 x 1.25 threaded zinc plated steel.
Nuts & Washers: Zinc plated steel.
Temperature Rating: -40°C to 125°C
Wire Size: 8mm² to 35mm²
Accessories: Includes cover, hex nuts & split washers.
Bus Bar: Tin plated copper.
Pack Size: 1, 10, 100
Dimensions in MM: 121.4 (L) x 36.8 (W) x 44.5 (H)
Notes: Fuse & busbar are not included.
Approvals: RoHS



Dimensions in MM



2 Hole Bus Bar



Ganged with Bus Bar

RELATED PRODUCTS:



32V Mega Fuse
(see p.28)



70V Mega Fuse
(see p.28)

POWER DISTRIBUTION MODULE - 60 POSITION - SEALED



The Littelfuse HWB60-AL (Assured Latch) features 60 open positions with no internal bussing. It is designed for use with 280 style components i.e. Mini fuses, Mini breakers, relays, diodes, resistors, etc.

NEW

IP67

Part Number	Kit Includes
PDMKIT711	Module, Terminals, Cable Seals, Cavity Plugs, TPA's.
PDMKIT712	Module, Jumpers, Pre-terminated Cables 2.0mm ² , Cavity Plugs, TPA's

Terminal Capacity: 60 terminals on a layout matrix of (5 x 12).
Terminal Rating: 30A max per terminal.
Maximum Fuse Rating: 30A
Wire Size: #22 - #10 AWG (0.35 to 5mm²).
Temperature Rating: -40°C to +125°C.
Base & Cover: PA66 30% GF. **Gasket:** Silicone.
Base Features: internal storage for 8 spare fuses & terminal position numbering on underside of base.
Mounting: 4 holes for M6 bolts (4 - 6Nm max torque).
Ingress Protection Rating: IP67 / IP69K when cover, cable seals and cavity plugs are installed.
Options: Cover tether, add-on accessory to hold a fuse puller & spare fuses, internal cover grid to aid relay retention.
Pack Size: 1
Terminal Tools: Terminal crimping & removal tools available.
Relays: ISO280 Ultra Micro, ISO280 Micro or ISO280 Mini. 12V or 24V. SPST or SPDT. Contact sales for further details.
Feature: Gang mount feature interconnects multiple modules side-by-side. Can also interlock with a range of fuse blocks.
Notes: Mini fuses, Mini circuit breakers and ISO 280 relays are not included.



Scan this QR Code for more information



QR Code: 9028

HOLDERS

LIFT TRUCK FUSE BLOCK

EATON Bussmann

Part Number
FBTB-LN

Voltage: 125VAC, 80VDC

Rating: 800A

Studs: 5/16" - 24 (M8)

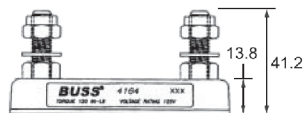
Hardware: Includes nylon insert lock nuts.

Base: Thermoplastic

Pack Size: 1

Notes: Countersunk mounting holes to suit No. 10 flat head screws. Fuses not included.

Suits Fuse: ANL, ANN and FBT series.



RELATED PRODUCTS:



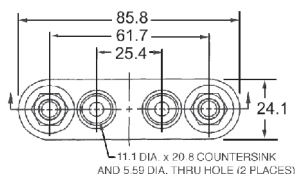
FBT Fuses
Page 29



ANL Fuses
Page 29



ANN Fuses
Page 29



MARINE RATED BATTERY FUSE BAR ISOLATED STUD

EATON Bussmann

Features:

- Suitable for DC Main, inverter, windlass and bow thruster circuit protection.
- Mounts on a M10 (3/8") battery post, battery switch or busbar.
- Provides high current protection in tight space constraints.
- Weatherproof, suitable for small locations & other harsh environments.
- Simple, economical and compact circuit protection system. Satisfies ABYC 7.
- Santoprene red or black insulating cap prevents accidental shorts.

Part Number	Description	Stud	Cover
CFBAR1M8SPRK	Single pole kit	M8	Red
CFBAR1M8SPBK	Single pole kit	M8	Black
CFBAR2M8SPRK	Double pole kit	M8	Red
CFBAR2M8SPBK	Double pole kit	M8	Black



CFBAR1 BLACK KIT
Single Pole Kit



CFBAR2 RED KIT
Double Pole Kit

Voltage: 58VDC

Rating: 300A max per CFBAR

Body: Thermoplastic PPS UL94-V0

Busbar: Nickel plated copper

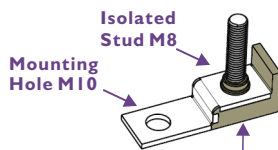
Fuse Bar Stud: Stainless steel 1/4" -20 or M8.

Kit Contents: Includes S/S nuts, washers and cover.

Mounting: Mounts on a M10 (3/8") battery post. Optional M12 (1/2") version.

Suits Fuse: MRBF (Marine Rated Battery Fuse).

Notes: The updated 'SP' version of the battery fuse bar does not require a special isolating nut so regular nuts and washers can be fitted to the stud(s). Fuses not included.



Isolated Stud M8
Mounting Hole M10
Isolated Base

RELATED PRODUCTS:



MRBF fuses
Page 27



Ring terminal fused
to accessory

Scan this
QR code
for more
information



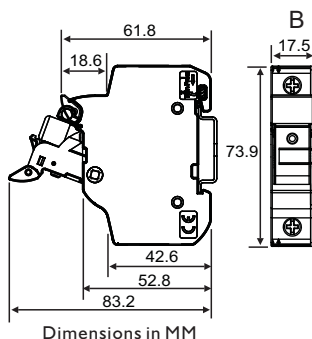
QR Code: 3000

10.3 X 38.1MM DIN RAIL MOUNT FUSE CARRIERS

EATON Bussmann

Part Number	Poles	Dimension B
CHM1DU	1	17.5mm
CHM2DU	2	35mm
CHM3DU	3	52.5mm

Rating & Voltage: 32A 690VAC / 30A 600VDC
Utilization Category: AC22-B SCCR: 200kA RMS
Optional Indicator: Open fuse indicator.
Degree of Protection: IP20 Finger safe construction.
Modular Feature: Toolless clip / pin kit for extra pole assembly.
Cable Size: 0.8 - 21.1mm² (AWG 18-4 Solid, Stranded, Fine)
Terminals: Single or dual conductors, comb busbar, terminal screws.
Lock Feature: Inbuilt pad locking facility.
Mounting: Toolless 35mm DIN Rail.
Clip & Pin Kit: JV-L (3 bars & 6 clips). Gangs up to 4 poles.
Approvals: IEC 60269-2 IEC    

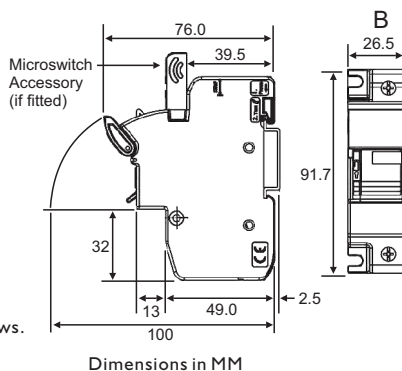


14 X 51MM DIN RAIL MOUNT FUSE CARRIERS

EATON Bussmann

Part Number	Poles	Dimension B
CH141DU	1	26.5mm
CH142DU	2	53mm
CH143DU	3	79.5mm

Rating: 50A
Voltage: 690VAC / 750VDC (IEC), 700VAC (UL)
SCCR: 120kA AC, 10kA DC (PV only)
Cable Size: 1.5 - 50mm²
Degree of Protection: IP20 Finger safe construction.
Optional Indicator: Open fuse indicator.
Microswitch CH141: CH14-SPS, I n/o + I n/c changeover type.
Microswitch CH143: CH14-TPS, I n/o + I n/c changeover type.
Modular Feature: Toolless clip / pin kit for extra pole assembly.
Lock Feature: Inbuilt pad locking facility.
Mounting: Toolless 35mm DIN Rail or 2 x M4 panel mounting screws.
Clip & Pin Kit: JV-L (3 bars & 6 clips). Gangs up to 4 poles.
Approvals: IEC 60269-2 IEC    

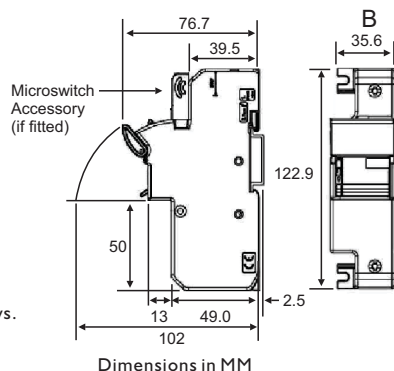


22 X 58MM DIN RAIL MOUNT FUSE CARRIERS

EATON Bussmann

Part Number	Poles	Dimension B
CH221DU	1	35.6mm
CH222DU	2	71.2mm
CH223DU	3	106.8mm

Rating: 125A (IEC), 100A (UL)
Voltage: 690VAC / 1000VDC (IEC), 700VAC (UL)
SCCR: 120kA AC, 50kA DC
Cable Size CU Only: 2.5 - 70mm²
Degree of Protection: IP20 Finger safe construction.
Optional Indicator: Open fuse indicator.
Microswitch CH221: CH22-SPS, I n/o + I n/c changeover type.
Microswitch CH223: CH22-TPS, I n/o + I n/c changeover type.
Modular Feature: Toolless clip / pin kit for extra pole assembly.
Mounting: Toolless 35mm DIN Rail or 2 x M4 panel mounting screws.
Lock Feature: Inbuilt pad locking facility.
Clip & Pin Kit: JV-L (3 bars & 6 clips). Gangs up to 4 poles.
Approvals: IEC 60269-2 IEC    



HOLDERS

PV CARTRIDGE FUSE CARRIER 10.3MM DIA. 1100V

NEW



Part Number	Description
BH100-01	1 Pole Carrier - Without indicator
BH100-02	1 Pole Carrier - With LED indicator
BHT100	2 Pin Busbar Link 60A 1000VDC 2.5 to 16mm ²
BHB100-6	Comb Busbar Ins. 100A 1000VDC 1 Pole, 6 Pin
BHB100-10	Comb Busbar Ins. 100A 1000VDC 1 Pole, 10 Pin
16130027	Busbar End Cap

Rating & Voltage: 32A 1000VDC, 30A 1100VDC

SCCR: 10kA

Cable Size Max: 1.5 to 10mm² (18-8 AWG solid)

Max. Fuse Link Power Dissipation: 3W

Note: Minimum DC-voltage to illuminate the holder's LED when the fuse is blown is 150 VDC.

Accessories: Busbar comb multi pole.

Approvals (Fuse Links): PV Midget Fuses IEC 60269-2:2006 UL284-4

Approvals (Carrier): RoHS



Single Pole



Double Pole

RELATED PRODUCTS:

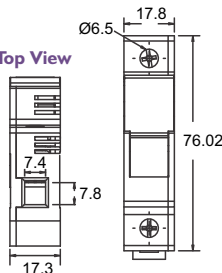


PV Fuses
(see p.43)

Comb Busbar & Busbar End Caps

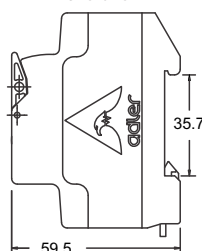
Busbar Link 2 Pin

Top View



Front View

Dimensions in MM



Side View

PV CARTRIDGE FUSE CARRIER 10.3MM DIA. 1500V

NEW



Adler BH300 touch safe fuse holders are designed for standard 10x85 mm PV fuses and other cylindrical fuses up to Ø10 x 85mm. With current ratings up to 30A at 1500 VDC, it can effectively protect 1500 VDC circuits and equipment in photovoltaic applications.

Part Number	Description
BH300-01	1 Pole Carrier - Without indicator
BH300-02	1 Pole Carrier - With LED indicator
BHT300	2 Pin Busbar Link 60A 1500VDC 2.5 to 16mm ²
BHB300-6	Comb Busbar Ins. 100A 1500VDC 1 Pole 6 Pin
16130027	Busbar End Cap

Carrier Rating & Voltage: 50A 1500VDC **SCCR:** 50kA

Mounting: DIN Rail

Wire Range: 1.5 to 10mm² (18-8 AWG)

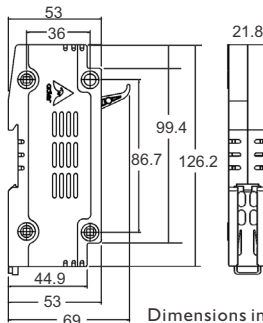
Operation Temperature: -40°C to +150°C

Suit Fuse: A83 Ixxxxxx or PV-xxAlxF85L (10/14 x 85mm)

Material Flammability: UL 94-V0

Approvals: UL 4248-18, EN 60947-3 (10 kA@1500 VDC)

UL Listed File: E486822 **TUV File:** R 50394043



Dimensions in MM



RELATED PRODUCTS:



PV Fuse 1500VDC
(see P.36)

Busbar Link 2 Pin

Comb Busbar & Busbar End Caps



**RS Front
Connected**



**RS Front / Back Stud
Connected**



**RS Back Stud
Connected**



**RSL Front
Connected**

Part Number	Ampere Rating	Voltage Rating (IEC Approved)	Min - Max Conductor Size	Termination / Connection Style
RS20H	20A	690VAC/690VDC	10 - 8 AWG (2-10mm ²)	Front
RS20P/G	20A	690VAC/690VDC	*	Back Stud
RS20PH/G	20A	690VAC/690VDC	10 - 8 AWG (2-10mm ²) *	Front / Back Stud
RS20F	20A	690VAC/690VDC	*	Back Stud, Flush Mounted
RS32H	32A	690VAC/690VDC	10 - 6 AWG (5-16mm ²)	Front
RS32P	32A	690VAC/690VDC	*	Back Stud
RS32PH	32A	690VAC/690VDC	10 - 6 AWG (5-16mm ²)*	Front / Back Stud
RS63H	63A	690VAC/690VDC	6 - 1 AWG (13-50mm ²)	Front
RS63P	63A	690VAC/690VDC	*	Back Stud
RS63PH	63A	690VAC/690VDC	6 - 1 AWG (13-50mm ²)*	Front / Back Stud
RS100H	100A	690VAC/690VDC	4 - 3/0 AWG (21-70mm ²)	Front
RS100P	100A	690VAC/690VDC	*	Back Stud
RS100PH	100A	690VAC/690VDC	4 - 3/0 AWG (21-70mm ²)*	Front / Back Stud
RS200H	200A	690VAC/690VDC	2/0 - 250MCM AWG (67-120mm ²)	Front
RS200P	200A	690VAC/690VDC	*	Back Stud
RS200PH	200A	690VAC/690VDC	2/0 - 250MCM AWG (67-120mm ²)*	Front / Back Stud
RS400H	400A	690VAC/690VDC	250MCM - 500 AWG (127-240mm ²)	Front
RS400P	400A	690VAC/690VDC	*	Back Stud
RS400PH	400A	690VAC/690VDC	250MCM - 500 AWG (127-240mm ²)*	Front / Back Stud
RSL63H	63A	1200VAC/750VDC		Front
RSL63P	63A	1200VAC/750VDC	*	Back Stud
RSL63PH	63A	1200VAC/750VDC	(mm)*	Front / Back Stud

RS Series Specifications

Protection Level: IP20

Flammability: V-I (RS20H to RS63H), V-0 (RS100H to RS400H)

Max. Operating Temperature: 40°C

Wire Type: 70°C PVC/Cu

Holder Colour: Black standard. White, Green, Grey also available contact sales.

Approvals: BS88, IEC 60269-1 & IEC 60269-2 (690VAC/ 690VDC)

CSA 22.2 No. 39, Class 6225 01, File 47235 (600VAC / 690VDC)

Notes: *Back stud connection requires use of customer supplied terminal lugs.

Minimum/maximum conductor size and torque per terminal lug manufacturer.

RSL Series Specifications: Contact sales for further information.

Scan this
QR Code for
more
information



QR Code: 7013

FUSE HOLDER TO FUSE COMPATIBILITY CHART

Carrier Series	415VAC Fuse Types	550VAC Fuse Types	690VAC Fuse Types	690VAC Fuse Types	1200VAC Fuse Types
RS20	NIT..L (2-20A)	NITD.. / NIT.. (2-20A)	-	-	-
RS32	TIA..L (2-32A)	AAO.. (2-32A)	..H07 (25-30A)	TIA.. (2-32A)	-
RS63	TIS..L (40-63A)	BAO.. (40-63A)	..K07 (40-60A)	TIS.. (40-63A)	-
RS100	TCP..L (80-100A)	CEO.. (32-100A)	..L14 (80-100A)	TCP.. (80-100A)	-
RS200	DD .. (125-200A)	-	..M09 (125-200A)	TF.. (125-200A)	-
RS400	EF.. (355-400A)	-	..P11 (250-400A)	TM.. (355-400A)	-
RS400	EFS.. (315A)	-	-	-	-
RSL63	-	-	-	-	..HD36, TAC.

- The Safeloc fuse carriers are available in 3 different wiring configurations; front, back or a front/back combination.
- Unique slide/snap action carrier which eliminates the need for fuse carrier contacts.
- Low power loss and increased reliability due to the design of the carrier that provides positive stress free fitting of fuse and locates position of the fuse.
- Protection against electrical shock. Base contacts are fully shrouded.
- Easy and fast access to the contact terminal screw due to simple sliding retained shrouds.

Part Number	Suits Fuse Type	Amp Rating 550VAC	Amp Rating 415VAC	Wire Connection
32NNSF	NSD / NS	32A	20M25 - 32M63	Front Connected
32NNSBS	NSD / NS	32A	20M25 - 32M63	Back Connected
32NNSFBS	NSD / NS	32A	20M25 - 32M63	Front / Back Stud
63ENSF	ESD / ES	63A	40 - 63M100	Front Connected
63ENSBS	ESD / ES	63A	40 - 63M100	Back Connected
63ENSFBS	ESD / ES	63A	40 - 63M100	Front / Back stud

Body: Black (standard). (W) white, (G) green or (GY) grey (optional).

Mounting: DIN rail 35mm, or simple screw panel mounting.

Notes: Compact fuse link and fuse holder dimensions.

Options: Security seal (ref. 32551) available for 32NNS.

Approvals: BS88, EN IEC60269, CSA C22.2 NO. 106

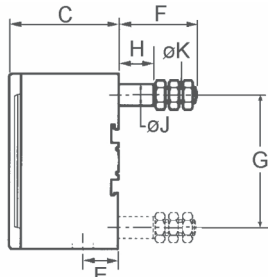
Carrier Cross Reference

Safeloc	Safeclip	Safeloc	Safeclip
32NNSF	SC32H	63ENSF	SC63H
32NNSFBS	—	63ENSFBS	—
32NNSBS	SC32P	63ENSBS	SC63P

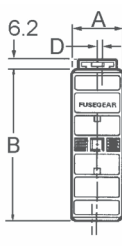
Front Connected Holder Wiring



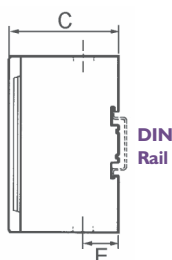
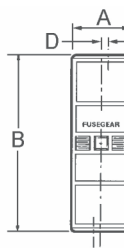
Back Connected Wiring Studs Fitted



32NNS Series



63ENS Series



Dimensions in MM

Part Number	Max Cable	A	B	C	D	E	F	G	H	I	K
32NNSxxx	16mm ²	25.4	80.3	48.5	2.3	16	39.2	57.7	17.0	9.7	M6
63ENSxxx	35mm ²	29.1	90.0	55.0	3.3	17.7	75.0	67.9	39.2	11.0	M8

Notes on Motor Circuit Fuses.

The unique design of the Safeloc fuse holders has enabled the design of dual rated fuse links which offer protection for motor circuits up to 30kW. These fuse links have a rating as defined in BS88 plus a higher secondary motor rating, which relates to their ability to withstand motor starting surges. For example, an ESD63M100 has a continuous current carrying capability of 63A, coupled with the time current characteristic, and thus the withstand capabilities, of a 100A fuse link.

RELATED PRODUCTS:

NSD fuses
Page 92



ESD fuses
Page 92



The Camaster fuse carriers are supplied with front connected wiring configuration but can easily be converted to back connected or mixed front/back connected using the appropriate 'Back Stud' accessory parts. The carriers are suitable for DIN rail mounting or bolted panel mounting and can be ganged together. The carriers feature full shrouding of live parts. Fixing screws are held in captive hinges to prevent loss and simplify installation. Holder design prevents tilting during insertion and removal eliminating likelihood of inadvertent contact with live metal. Marking label provided for ease of circuit identification.

Fuse Holder Part Number	Amp Rating	Suits Fuse Type	Standard Wire Connection*
CM32FC	32A*	NITD / NIT	Front Connected
CM32F	32A	AAO / TIA	Front Connected
CM63F	63A	BAO / TIS	Front Connected
CM100F	100A	OSD / OS	Front Connected

Accessory

Part Number	Description	Suits Holder
32BSC	Back Stud, 32A	CM32FC
32BS	Back Stud, 32A	CM32F
63/100BS	Back Stud, 100A	CM63F / CM100F
NI	Neon Indicator	All types

*Back Connected wiring studs can be ordered separately and fitted to the holder. Refer accessory parts table as well as instructions below.



Body: Black (standard) or white, green and grey (optional).

Cable Terminations : meet IEC60947 (subclause 7.1.7)

Accessories: Back Studs, Neon Indicator (Min. 90V to Max. 660VAC), Lockable Safety Carriers, Security Clips and Neutral Links.

Pack Size (box): 1, 10

Notes: * Also available in 20A rating, please contact sales.

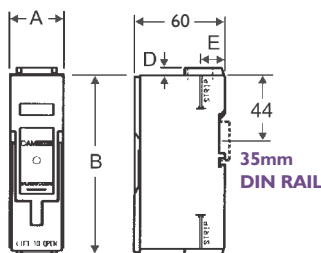
Approvals: IEC60269-2-1 (sect. 2), IEEE (BS7671), BS88

Carrier Cross Reference

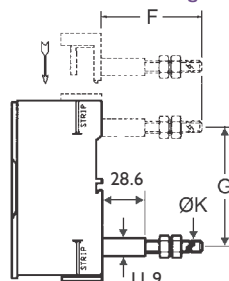
Camaster	Redspot
CM32FC	RS20H
CM32FC+1x32BSC	RS20PH
CM32FC+2x32BSC	RS20P
CM32F	RS32H
CM32F+1x32BS	RS32PH
CM32F+2x32BS	RS32P
CM63F	RS63H
CM63F+1x63/100BS	RS63PH
CM63F+2x63/100BS	RS63P
CM100F	---
CM100F+1x63/100BS	---
CM100F+2x63/100BS	---

Red spot holders refer page 129

Fuse Carrier



Back Connected Wiring Studs



RELATED FUSES



NITD & AAO fuses

See Page 93



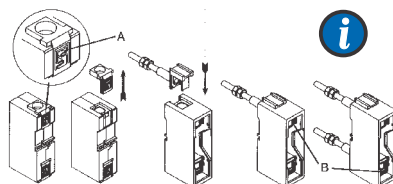
BAO & OSD fuses

See Page 94

Part Number	Max Cable	Dimensions in MM					
		A	B	D	E	F	G
CM32FC	16mm ²	25.4	93.7	3.2	17.5	66.0	58.0
CM32F	16mm ²	31.8	117.5	3.2	17.5	66.0	74.0
CM63F	70mm ²	35.6	125	4.75	16.4	86.5	81
CM100F	70mm ²	35.6	125	4.75	16.4	86.5	81

Mounting Information & Conversion Sequence

1. Remove carrier using the Cam lever. Gently insert screwdriver at position 'A' and push ferrule upward to remove.
2. Insert back stud accessory.
3. Raise contact shield by inserting screwdriver at position 'B'. Tighten terminal screw.
4. Repeat steps 1, 2 & 3 at opposite end to give double back stud connection.



Bottle fuse holders are single pole made up of the following components;
(a) Screw Cap, (b) Gauge Piece, (c) Fuse Base and (d) Protection Collar.
The bottle fuse cap has a window feature which shows the user if a bottle fuse is intact or blown.

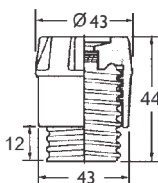


Assembled Fuse Holder



Screw Cap

Part Number	Fuse Size
B33-CAP	E33 / B33 / DIII

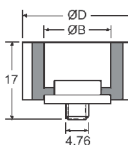


Screw Cap

Gauge Piece

Part Number	Fuse Size	Fuse Rating	Colour Code	Dimensions in MM	
				B	D
E27G2*	E27 / B27 / DII	2A	Pink	6.5	24
E27G4*	E27 / B27 / DII	4A	Brown	6.5	24
E27G6	E27 / B27 / DII	6A	Green	6.5	24
E27G10	E27 / B27 / DII	10A	Red	8.5	24
E27G16	E27 / B27 / DII	16A	Grey	10.5	24
E27G20	E27 / B27 / DII	20A	Blue	12.5	24
E27G25	E27 / B27 / DII	25A	Yellow	14.5	24
E33G35	E33 / B33 / DIII	35A	Black	16.5	30
E33G50	E33 / B33 / DIII	50A	White	18.5	30
E33G63	E33 / B33 / DIII	63A	Copper	20.5	30

Gauge Piece



E27G6



E27G20

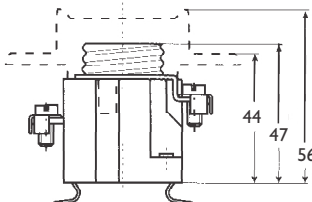
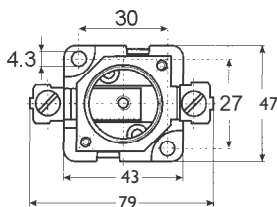


* Indent items only

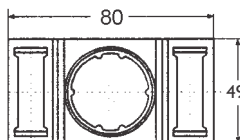
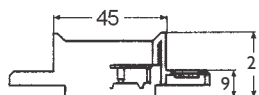
Single Pole Fuse Base & Collar

Part Number	Fuse Size	Electrical Rating	Base Mounting
B33-BASE-S	E33 / B33 / DIII	63A @ 500VAC	Screw

Fuse Base Din Rail Mount



Collar - Protection Cover



Notes: *Collar is included with the base.

Approvals: L Lloyd's Register of Shipping

RELATED PRODUCTS:

Bottle Fuses, E27 & E33 Size, Type gR (p63)
Bottle Fuses, E27 & E33 Size, Type gG & F (p81)



10.3 x 38.1MM CARTRIDGE FUSE BLOCKS

EATON Bussmann

Part Number	Description
BM6031PQ	Single Pole Block.
DRA-1	Din Rail Adapter (35mm).
SAMI-7N	Non-indicating Cover.

Rating: 30A (Screw Terminal), 20A (Quick Connect Terminal).

Voltage: 600VAC / 1000VDC

Suit Fuse UL: 10.3 x 38.1mm, Midget Fuses (100mA to 30A)

Suit Fuse IEC: 10.3 x 38.1mm, CH10 (gG, aM) 1038 (aR, gR) etc

Suit Fuse PV: 10.3 x 38.1mm, PV Fuses (gPV) 600VDC to 1000VDC

Wire Size: #10-#14 (CU only)

Pack Size (box): 10, 100

Material: Thermoplastic (Base & Cover)

Flammability: UL94VO (Base), UL94-V2 (Cover)

Terminals: Tin plated, copper alloy. Screw terminal & 2 x Q.C. terminals.

Options: Base also available in 2 or 3 poles.

Mounting: Single screw fixing or DIN rail (35mm) when used with optional adapter (DRA-1).

Covers: Snap on to individual fuses installed in fuse blocks, covering exposed live clips and terminals and reducing accidental contact by personnel. Suit both Class CC or Midget fuses.

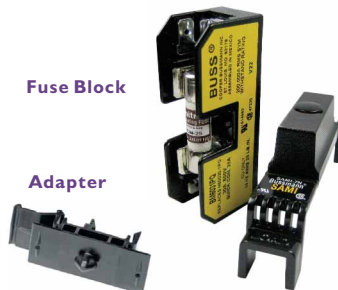
Notes: Fuse not included.

Approvals:  

Fuse Block

Adapter

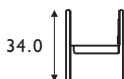
Fuse Cover



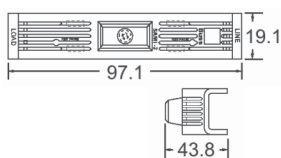
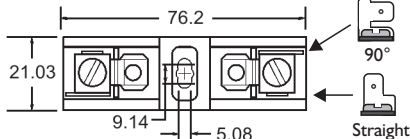
Fuse Block

1/4" Quick Connect & Screw terminals included on each end of the block.

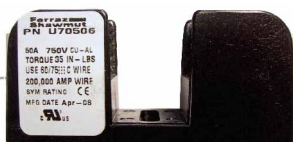
Cover



Dimensions in MM



14 x 51MM FUSE BLOCKS



Part Number	Description
70506U	Single Pole Block

Rating: 50A

Voltage: 750VAC **I.R.:** 200kA @ 750VAC

Mounting: Mounting Screws #10 (0.19" Dia)

Connector Type: Box lug

Maximum Wire Size: #2-14, Al/Cu

Suit Fuse Dimensions: 14 x 51mm

Suit Fuse Types:

IEC: CH14 (gG, aM) 1451 (aR, gR) 50A max.

UL: Class K5, RK1, RK5 (125mA-30A)

Notes: Extra poles also available.

Approvals:  

22 x 58MM FUSE BLOCKS



Features:

- Slide lock gangable to create multiple poles.
- DIN Rail or Screw Mounting.
- Optional IP20 indicating / non indicating covers.

Part Number	Description
JM70100-1CR	Single Pole Block
CVR-J-60060	Non-indicating Cover

Rating: 100A

Voltage: 700VAC/DC **I.R.:** 200kA @ 700VAC

Connectors: Screw terminals, tin plated alum.

Maximum Wire Size: #2 to #3 AWG

Suit Fuse Dimensions: 20 x 57mm or 22 x 58mm

Suit Fuse Types:

IEC: CH22 (gG, aM) 2258 (aR, gR) 100A max.

UL: Class J (1A to 30A)

Approvals:  

BRITISH SEMICONDUCTOR FUSE BLOCKS



Part Number	Description
HT4017	Fuse Block
HP40	Barrier Shield

Rating: 75A

Voltage: 400VAC/DC

Body: Black moulded

Mounting: Symmetrical 35mm DIN Rail / Screw Mount.

Termination: M6 screw.

Accessories: Barrier shields, extended terminals.

Suit Fuse: BS88 Semiconductor fuses LET series.

Pack Size (box): 1, 10

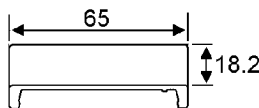
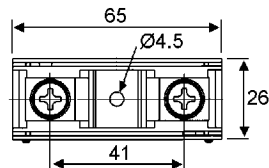
Notes: Two barrier shields required per single base.
Fuse not included.



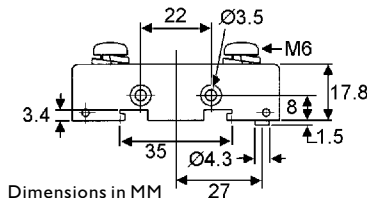
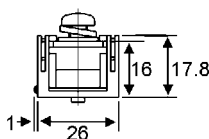
Base Shown With
Fuse Installed



Open Base Only



Barrier Shield



Dimensions in MM

RELATED PRODUCTS:

Semiconductor Fuse BS88-4,
LET Series (p49)



BRITISH SEMICONDUCTOR FUSE BLOCKS



Part Number	Description
HT6017	Fuse Block
HP60	Barrier Shield

Rating: 75A

Voltage: 700VAC/DC

Body: Black moulded

Termination: M6 screw.

Mounting: Symmetrical 35mm DIN Rail / Screw Mount.

Accessories: Barrier shields, extended terminals.

Suit Fuse: BS88 Semiconductor fuses ET & FE series.

Pack Size (box): 1, 10

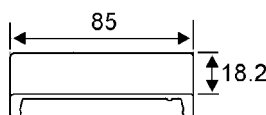
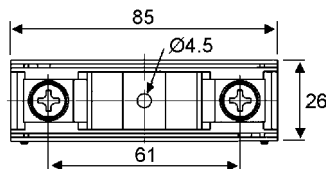
Notes: Two barrier shields required per single base.
Fuse not included.



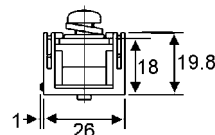
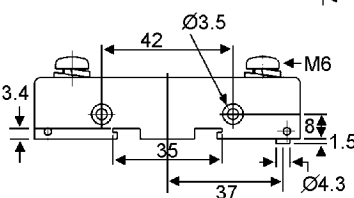
Base Shown With
Fuse Installed



Open Base Only



Barrier Shield



Dimensions in MM

RELATED PRODUCTS:

Semiconductor Fuse BS88-4,
ET & FE Series (p50)



CLASS T, EV & EVSE BOLTED FUSE BLOCKS MODULAR



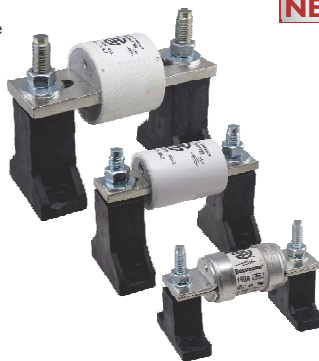
NEW

Features

The most comprehensive line of modular fuse blocks, designed to accommodate a wide range of High-Speed and UL Power Fuses. The modular stud type design that enables easy mounting in panel boards.

- Modular design reduces inventory requirements.
- Supplied with nut and Belleville washer.
- 200kA short-circuit withstand rating.

Part Number	Ampere Rating	Voltage Rating VAC	Voltage Rating VDC	Terminal Stud Size (Metric)
LSCR001	400A	700VAC	1500VDC	1/4"-20 (6.35mm)
LSCR002	800A	700VAC	1500VDC	3/8"-16 (9.52mm)
LSCR101	400A	1000VAC	1000VDC	1/4"-20 (6.35mm)
LSCR102	800A	1000VAC	1000VDC	3/8"-16 (9.52mm)
LSCR103	1200A	1000VAC	1000VDC	1/2"-13 (12.7mm)



Insulator Material: Thermoplastic (125°C Max)

Terminal Material: Steel, Zinc Plated.

Ordering Information: Sold as single blocks (order 2 blocks per fuse).

Notes: Fuse not included.

Approvals: cULus [RoHS]



Fuse Compatibility Chart

Not sure which blocks will best suit your fuse?

Our fuse compatibility chart is featured in the QR Code datasheet.



Scan this QR Code for more information



QR Code: 7018

FUSE BLOCKS MODULAR STUD TYPE WITH COVER



marathon
Special Products

Features:

- Modular stud type design enables easy mounting in panel boards.
- Slide lockable for multiple pole applications.
- Clear terminal covers.
- Supplied with nut and Belleville washer.
- Suitable for both Vac and Vdc applications.
- Made in USA.

Part Number	Ampere Rating	Voltage Rating	S.C Rating	Terminal Stud Size Imperial	Terminal Stud Size (Metric)
MFH8065FFCH	800A	600VAC/DC	200kA	1/2"-13	(12.7mm)
MFH8155FFCH	800A	1500VAC/DC	10kA	1/2"-13	(12.7mm)



↑
Slide Locks

↑
Bolted Tag Fuse

↑
Product Label

Cover Material: Clear thermoplastic.

Base Material: Black thermoplastic.

Terminal Material: Steel, Zinc Plated.

Pack Size (box): 1

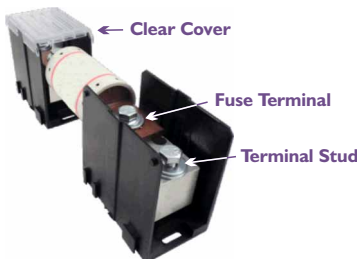
Fastener Mtg Size: #10

Ordering Information: Each fuse requires 2 blocks.

The MFH series are sold as a pair of blocks.

Notes: Fuse not included.

Approvals: cULus [RoHS]



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Phone: (+61) 03 9521 6133

135

HOLDERS

FUSE BLOCKS MODULAR STUD TYPE

EATON Bussmann

The C5268 series is a simple design modular fuse block. the fuse terminal and cable (with termination), are mounted on the same stud, minimizing labor needed for installation.

Part Number	Amp Rating	Stud Dia & Thread	Stud Height
C5268-5	100A	1/4"-20 UNC (6.35mm)	1.75" (44.45mm)
C5268-1	200A	5/16"-18 UNC (7.93mm)	1.00" (25.4mm)
C5268-2	200A	5/16"-18 UNC (7.93mm)	1.75" (44.45mm)



Pack Size (box): 1 block (order 2 blocks per fuse).

Ambient Temp: 150 °C

Base: Plaslok S5440 phenolic, UL 94V-0 or 94V-1.

Studs: Steel, Zinc Plated

Accessories: Includes nut & spring washer.

Notes: Fuse not included.



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DIN 80 SEMICONDUCTOR FUSE BASE 690V

EATON Bussmann

Part Number	Amperage	Voltage	Body Size
I70H1013	200A	690VAC	000

Connection Type: Single

Suit Fuse: DIN 45653 Semiconductor.

Pack Size (box): 1

Notes: Fuse not included.

Approvals: 512



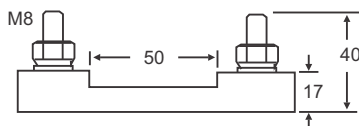
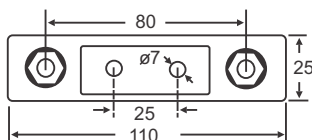
RELATED PRODUCTS:

Pictured with fuse installed

Fuse block



Semiconductor Fuses
I70M Series 690V (p53)



Dimensions in MM

DIN 80 SEMICONDUCTOR FUSE BASE 1000V

EATON Bussmann

Part Number	Amperage	Voltage	Body Size
I70H1007	400A	1000VAC	000,00

Connection Type: Dual

Suit Fuse: DIN 45653 Semiconductor.

Pack Size (box): 1

Notes: Fuse not included.

Approvals: 512



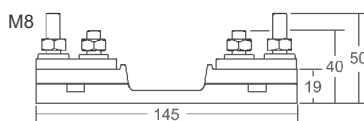
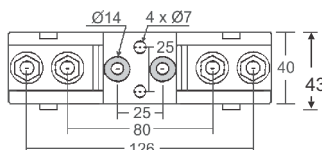
RELATED PRODUCTS:

Pictured with fuse installed

Fuse block



Semiconductor Fuses
I70M Series 690V (p53)
I70m Series 1000V contact sales.



Dimensions in MM

Part Number	Ampere Rating	Voltage	DIN Standard	Dimension "A"	Fuse Body Size	Diagram
I70H3003	630A	1000	DIN 80	80mm	0, 1, 2 & 3	1
I70H3004	1250A*	1000	DIN 80	80mm	0, 1, 2 & 3	2
I70H3005	630A	1400	DIN 110	110mm	0, 1, 2 & 3	1
I70H3006	1250A*	1400	DIN 110	110mm	0, 1, 2 & 3	2

Voltage: 1000V (DIN 80 Standard)
1400V (DIN 110 Standard)

Suit Fuses: German Semiconductor (p56 - 57)
DIN 43635 Centre Tag Bolt Down

Notes: *When using fuses rated above 1250A, maximum load current must be derated. The fuse base I70H3006 rated 1250A can also be used for the fuses with higher rated current if the maximum load current is derated i.e. fuse rating 1400A: max. load current in fuse base: 1325A. Fuses with higher rated current can be used if the maximum load current is derated according to the table below.

Notes: Fuse not included.

Fuse Amp Rating	Max. Amp Load In Fuse Base
1400	1325
1500	1400
1600	1500
1800	1650
2000	1800



Base Shown With Fuse Installed

Diagram 1
(630A Rated)

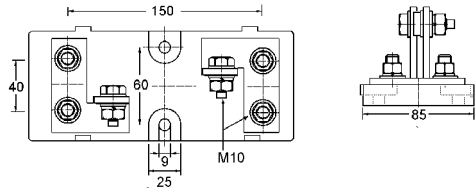
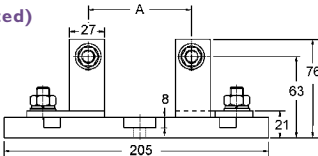
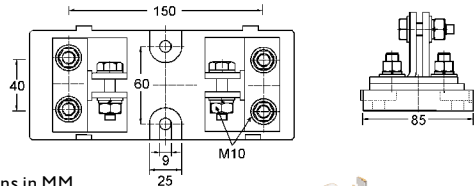
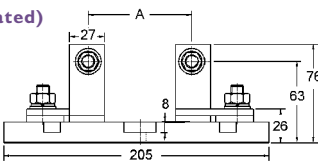


Diagram 2
(1250A Rated)

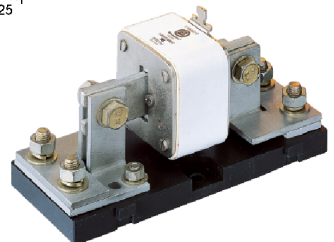


Dimensions in MM

RELATED PRODUCTS:



Semiconductor Fuses
I70M Series (p56 - p57)



Base Only Part Number	Fuse Size	Amp Rating	Voltage (VAC)	Open Base Description	Mounting Options
SD00-D	00C/00	160A	690V	1 Pole	35MM DIN Rail / Screw
TD00-D	00C/00	160A	690V	3 Pole	35MM DIN Rail / Screw

IP20 Protec. Kit

Part Number	The 3 Pole TD00-IP20 Kit Includes:
TD00-IP20	2 x phase barriers, 6 x terminal covers & 3 x fuse covers.

Multiple Poles: Bases can be joined to create multi-pole units.

Base: Thermoplastic base high temperature resistance & self-extinguishable.

Contacts: Silver plated copper.

Pack Size (box): Varies, contact sales for further information.

IP Rating: IP20 when optional protection kit is installed.

Options: IP20 protection kit (below), Neutral links (p85), NH fuse extractor (p150), Microswitch 170H0236 (p148).

Vibration: Tested to IEC 60068-2-6 for marine use.

Suit Fuses: NH Size 00C/00 (p82).

Approvals: IEC 60269-1 & 2, VDE 0636-1 & 2

Notes: Fuses are not included.



Single Base Pictured with Fuse Installed



TD00-IP20 Kit Installed



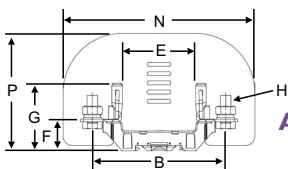
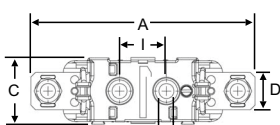
Triple Pole Base



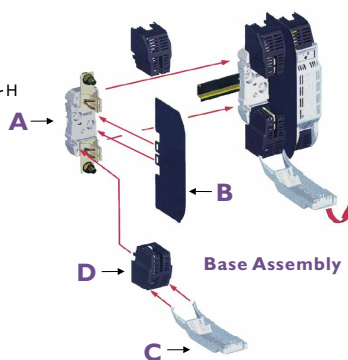
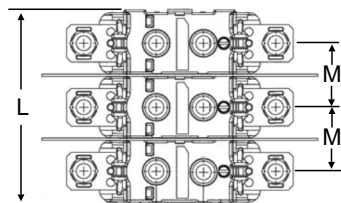
Single Pole Base

IP20 Protection Kit Information

To achieve IP20 protection, the optional protection kit is only available as standard to suit a 3 pole base. However the kit can also be used on single pole base. Easy snap lock assembly. Should you require different pole configurations, please contact sales. Note: Phase barriers cannot be attached to the outer side of a base.



Dimensions in MM



Base Assembly

Base Dimensions in MM

Fuse Size	A	B	C	D	E	F	G	H	I	J	L	M	N	P
NH00	120	102	35.5	20	56	24	51	M8x20	25	8	103.5	34	146	89

Base Assembly

- A = Open Base
- B = Phase Barrier
- C = Fuse Cover
- D = Terminal Cover

These fuse bases can be joined with optional ganging links to create 2 or 3 pole bases.
An IP20 protection kit is also available for 3 pole bases. It can also be used on 1 pole base.

Base Only	Fuse	Amp	Voltage	Voltage	Open Base	Mounting Options	IP20 Protect. Kit
Part Number	Size	Rating	(VAC)	(VDC)	Description		Part Number
SD1-D	1	250A	690V	-	1 Pole	35mm DIN Rail / Screw	Contact Sales
TD1-D	1	250A	690V	-	3 Pole	35mm DIN Rail / Screw	TD1-IP20
SD1-D-PV	1	250A	690V	1500V	1 Pole	35mm DIN Rail / Screw	Contact Sales
SD2-D	2	400A	690V	-	1 Pole	35mm DIN Rail / Screw	Contact Sales
TD2-D	2	400A	690V	-	3 Pole	35mm DIN Rail / Screw	TD2-IP20
SD2-D-PV	2	400A	690V	1500V	1 Pole	35mm DIN Rail / Screw	Contact Sales
SD3-D	3	630A	690V	-	1 Pole	35mm DIN Rail / Screw	Contact Sales
TD3-D	3	630A	690V	-	3 Pole	35mm DIN Rail / Screw	TD3-IP20
SD3-D-PV	3	630A	690V	1500V	1 Pole	35mm DIN Rail / Screw	Contact Sales
SD4-S	4	1250A	690V	-	1 Pole	Screw Mount only	Not Available
SD4-SI600	4	1600A	690V	-	1 Pole	Screw Mount only	Not Available

IP20 Kit Fuse Size

Part Number	Base Size	The 3 Pole TDx-IP20 Kit Includes:
TD1-IP20	1	2 x Outer Phase Barriers, 2 x Ganging Links, 6 x Terminal & 3 x Fuse Covers.
TD2-IP20	2	2 x Outer Phase Barriers, 2 x Ganging Links, 6 x Terminal & 3 x Fuse Covers.
TD3-IP20	3	2 x Outer Phase Barriers, 2 x Ganging Links, 6 x Terminal & 3 x Fuse Covers.

Base: Thermoplastic base highly temperature resistant and self-extinguishable.

Contacts: Silver plated copper. Size NH3 base features double fuse contact clips (also available for size NH2 base, please contact sales).

Pack Size (box): Contact sales for further information.

IP Rating: IP20 when optional protection kit is installed.

Ganging Links: Contact sales if you wish to order optional ganging links.

Phase Barrier: 1 x phase barrier is included with each ganging link.

Options: IP20 protection kit (below), Neutral links (p85),

NH fuse extractor (p150), Microswitch 170H0236 (p148).

Vibration: Tested to IEC 60068-2-6 for marine use.

Suit Fuses: NH Sizes 1 to 4 (p83-85), NH PV Sizes 1 to 3 (p66).

Approvals: IEC 60269-1&2, VDE 0636-1 & 2

Notes: NH4 bases not suitable for NH Size 4A full blade fuses.

Fuses are not included.



Single Base with Fuse Installed



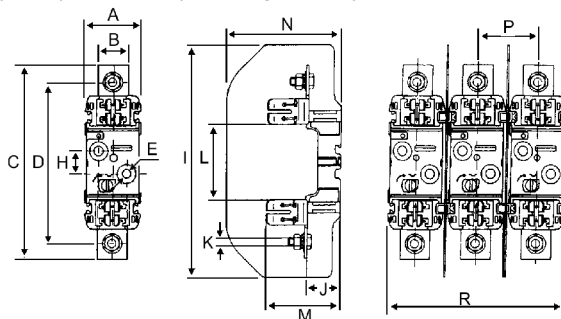
TDx-IP20 Kit Installed



Triple Pole Base

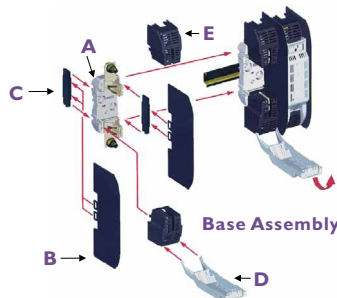
IP20 Protection Kit Information

To achieve IP20 protection, the optional protection kit is only available as standard to suit a 3 pole base. However the kit can also be used on single pole base. Easy snap lock assembly. Should you require different pole configurations, please contact sales.



Base Dimensions in MM

Fuse Size	A	B	C	D	E	H	I	J	K	L	M	N	P	R
NH1	56	35	199	175	10	25	245	37	M10x25	79	78	125.5	66	188
NH2	56	35	224	199	10	25	245	37.5	M10x25	79	86	125.5	66	188
NH3	56	36	239	209	10	25	260	37.5	M12x30	82	88	137.5	82.5	221
NH4	Please contact sales for dimensions													



Base Assembly

- A** = Open Base
- B** = Phase Barrier
- C** = Ganging Link
- D** = Fuse Cover
- E** = Terminal Cover

10.3 x 38.1MM FUSE SWITCH DISCONNECTOR

EATON Bussmann

Features:

- 1/3 the space required by a molded case circuit breaker.
- 2/3 the space required by a traditional fusible switch.
- Open fuse indication can be provided both locally and remotely for fast troubleshooting.
- Lockout / Tagout capability promotes safe workplace practices.
- Positive visible circuit isolation via the disconnect switch is easy to see.
- Finger-safe to IP20 helps prevent contact with live components.
- 200kA short-circuit current rating (SCCR) with Class CC fuses.
- Global standards ensure the CCP can perform in panels installed across all markets.
- Horsepower rated for protecting motor circuits.
- Optional wired remote open fuse indication can be utilized to signal a PLC and open a contactor.



Part Number	10x38mm Fuse Type	No. Poles	IEC Fuse Rating Type aM / Type gL	IEC Fuse Voltage	UL Fuse Rating	UL Fuse Voltage	SCCR UL/IEC
CCP-1-30M	Midget	1	32A aM / 25A gG	400VAC	30A	240VAC	10kA*/120kA*
CCP-2-30M	Midget	2	32A aM / 25A gG	400VAC	30A	240VAC	10kA*/120kA*
CCP-3-30M	Midget	3	32A aM / 25A gG	400VAC	30A	240VAC	10kA*/120kA*
CCP-1-DCM	Midget	1	32A aM / 25A gG	80VDC	30A	80VDC	10kA*/10kA*
CCP-1-30CC	Class CC	1	-	-	30A	600VAC	200kA / -
CCP-2-30CC	Class CC	2	-	-	30A	600VAC	200kA / -
CCP-3-30CC	Class CC	3	-	-	30A	600VAC	200kA / -

Part Number	Description	Signal Output	Approvals
JV-CCP	3 Pole carrier connect kit contains 6 clips & 2 pins	5A / 240VAC	UL / CSA / IEC
CCP-AUX	Auxiliary Contacts NO + NC for switch status	24VDC	UL & CSA
CCP-PLC-IND	Wired Remote Fuse Indication for PLC Applications	-	-

Suit Fuse: 10.3 x 38.1 mm. Check specifications above.

Cable Size Max: 1-10mm² (18-8AWG)

Wire Range: 18-6AWG single or dual rated, solid or stranded, 4AWG single, 75 C Cu only

Approvals: IEC

Mounting: DIN Rail.

Flammability Rating: UL 94-VO.

Notes: *Maximum rating varies with installed fuse. Refer to fuse data sheet. Fuse not included.

20.6 x 127MM FUSE DISCONNECTOR

EATON Bussmann

Fuse disconnectors are intended for cylindrical fuse-links size 20x127, which are suitable for protection of circuits for photovoltaic systems, trolleybuses or trams.

Features:

- Delivered with P-terminal, it can be removed, and the fuse disconnecter can be connected by cable lugs for screws M8.
- Hole in the cover for check of fuse amperage.
- Fixed to the panel by screws M6.
- Cover extracts fuse upon opening.



Part Number
CH127-I

Rating: 63A

Voltage: 1500VAC / 1500VDC

Pack Size: 1, 4

Suit Fuse: 20.6 x 127mm (p64)

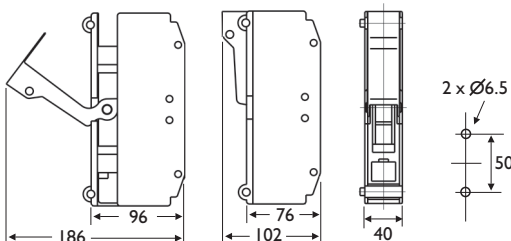
Terminals: Screw, Connection (1 + 50mm² Cu both solid and stranded) (2.5 + 50mm² Al solid)

Utilization Category: AC20B, DC20B

Notes: Do not open under load.

Fuse not included.

Approvals: IEC 60947-3



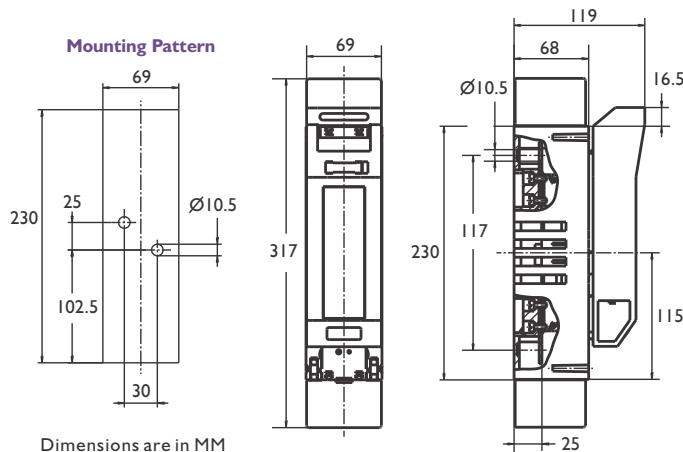
Add 40mm to width for each extra pole, ie. 2 pole = 80mm wide.

NH FUSE SWITCH DISCONNECTOR 1 POLE



Part Number	Description
4122038	Single pole fuse disconnector

Voltage: 1000VDC **Rating:** 160A
Suit Fuse: Battery Fuses (p65), PV Fuses (p66)
Cable Size: 25mm² to 240mm²
Mounting: Screw mount (vertical or horizontal)
Ingress Protection: IP20, IP10 (front side device fitted)
Overvoltage Category: III
Utilization Category: DC-20B
Notes: Fuse not included.



NH Fuse Disconnecter



Battery Fuse
550VDC
Size I (p65)



PV NH Fuse
1000VDC
Size I (p66)

NH PV SIZE 01XL, 1XL, 2XL & 3L SCREW MT. FUSE BASE



Bussmann

XL Fuse Bases 1500V With Integrated Shields

Original Part Number	Revised Part Number	Fuse Body Sizes	Ampere Rating	Power Acceptance
SB1XL-S	SD1XL-S-PV	01XL, 1XL	200A	57 Watts
SB2XL-S	SD2XL-S-PV	2XL	400A	75 Watts
SB3L-S	SD3L-S-PV	3L	500A	108 Watts

Voltage: 1500VDC
Fuse Clips: Silver plated copper.
Flammability Rating: Base: UL 94 V2. Shields: UL 94 V0.
IP Rating: IP20 with terminal shields & gripping lug cover fitted.
Terminal Torque: 32Nm.
Mounting: Panel, Screw mount.
Suit Fuse: PV full blade XL size fuses (p67).
Fuse Extraction Handle: # FEH-1500 (p150).
Notes: Fuse not included.
Approvals: IEC 60269-I, UL & CSA pending. RoHS

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QR Code: 7012



PV NH Style Fuses
Sizes 01XL-3L (p67)



NH PV Fuse Base
With Integral Shields

HOLDERS

Features

- Panel mounting with screws (size 000 holder can also be DIN rail mounted).
- Optional locking inserts to padlock the cover closed.
- Huge variety of terminals for different cable gauges and termination options.
- Several busbar options to create a common between the poles of multiple holders.

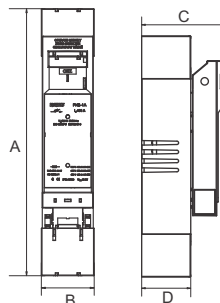
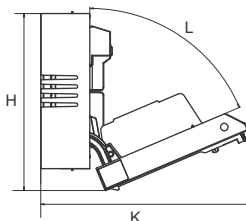
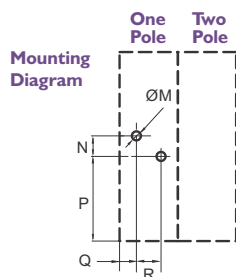
Single Pole	Fuse	Ampere	
Part Number	BodySize	Rating	Terminals
FH000-1A-T	000 (00C)	160A	Clamp type 1.5 to 50mm ²
FH00-1A-F	00 & 00C	160A	M8 screws
FH1-1A-F	1 & 1C	250A	M10 screws
FH2-1A-F	2 & 2C	400A	M10 screws
FH3-1A-F	3 & 3C	630A	M12 screws

Voltage: 690VAC / DC (varies by utilisation category, refer QR datasheet).
Suit Fuses: NH Size 000 to 3 (p82-84), NH Battery Fuse size 000 to 3 (p65).
Mounting: Panel Mount (all holders). FH000 is also 35mm DIN rail mount.
Front Protection Rating: Built-in device, open cover: IP20
 Built-in device, closed cover, measuring holes filled: IP30
Size 4 Fuse Holder: Holders for Size 4 fuses available, please contact sales.
Approvals: IEC 60947-1,3 EN 602947-1,3 CE



NH Blade Fuse

One Pole Disconnect Switch



Single Pole Dimensions in MM

Product Code	A	B	C	D	E	F	H	K	L	M	N	P	Q	R
FH000-1A-T	143	38	80	46.5	9	10	151	180	78°	6	30	64	-	-
FH00-1A-F	235	42	90	45	17	20	192	205	70°	7	-	82.5	8.5	25
FH1-1A-F	318	71	124	67	34	25	273	316	78°	11	25	103	20.5	30
FH2-1A-F	398	79	138	81	49	30	299	350	78°	11	25	116	24.5	30
FH3-1A-F	416	93	152	95	56	40	304	358	78°	11	25	116	31.5	30

Notes: Dimensions are approximate, please contact sales to request a manufacturer datasheet with exact dimensions.

Optional Accessories: (Scan QR Code to view our full product datasheet)

Front cover signal switch.



Front cover padlock security fittings.



2, 4 & 6 Pole assembly kits.



Clip on upper & lower housing covers.



Terminal extensions connect cables or different gauges.



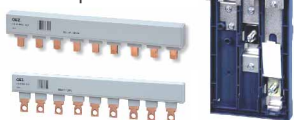
Front cover contact barrier.



Front cover plate cover gaps in mounting area.



Busbar fittings top or rear connection of multiple holders.



Scan this QR Code for more information



QR Code: 7007

Features

- Panel mounting with screws (size 000 holder can also be DIN rail mounted).
- Optional locking inserts to padlock the cover closed.
- Huge variety of terminals for different cable gauges and termination options.
- Several busbar options to create a common between the poles of multiple holders.

Three Pole	Fuse	Ampere	
Part Number	BodySize	Rating	Terminals
FH000-3A-T	000 (00C)	160A	Clamp type 1.5 to 50mm ²
FH00-3A-F	00 & 00C	160A	M8 screws
FH1-3A-F	1 & 1C	250A	M10 screws
FH2-3A-F	2 & 2C	400A	M10 screws
FH3-3A-F	3 & 3C	630A	M12 screws

Voltage: 690VAC / DC (varies by utilisation category, refer QR datasheet).

Suit Fuses: NH Size 000 to 3 (p82-84),

NH Battery Fuse size 000 to 3 (p65).

Mounting: Panel Mount (all holders). FH000 is also 35mm DIN rail mount.

Front Side Protection Ratings: Built-in device, open cover: IP20

Built-in device, closed cover, measuring holes not broken off: IP30

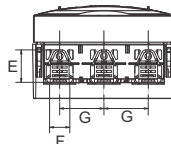
Size 4 Fuse Holder: Holders for Size 4 fuses available, please contact sales.

Approvals: IEC 60947-1,3 EN 602947-1,3 CE

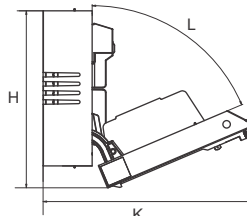
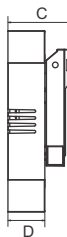
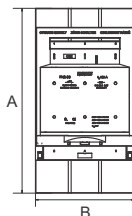
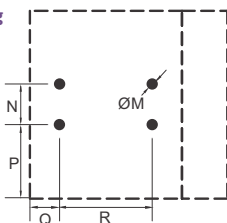


NH Blade Fuse

Three Pole Disconnect Switch



Three Pole, Four Pole Mounting Diagram



Three Pole Dimensions in MM

Product Code	A	B	C	D	E	F	G	H	K	L	M	N	P	Q	R
FH000-3A-T	143	89	82	46.5	9	10	26	151	181	78°	6	-	64	TBA	50
FH00-3A-F	235	105	90	45	17	20	33	192	205	70°	7	25	70	19.5	66
FH1-3A-F	318	186	124	67	34	25	58	266	315	67°	11	50	90	36	114
FH2-3A-F	398	213	138	81	49	30	66	292	347	67°	13	50	103	41.5	130
FH3-3A-F	416	257	152	95	56	40	82	303	359	73°	13	50	103	48.5	160

Notes: Dimensions are approximate, please contact sales to request a manufacturer datasheet with exact dimensions.

Optional Accessories: (Scan QR Code to view our full product datasheet)

Front cover signal switch.



Front cover padlock security fittings.



2, 4 & 6 Pole assembly kits.



Clip on upper & lower housing covers.



Terminal extensions connect cables or different gauges.



Front cover contact barrier.



Front cover plate cover gaps in mounting area.



Busbar fittings top or rear connection of multiple holders.



Scan this QR Code for more information



QR Code: 7007

Part Number	Product Description	Conductor	Pack	Colour
43408	Terminal block 24A, 1000V (Inputs / Out)	Flexible (0.5-2.5mm ²), Rigid (0.5-4mm ²)	1/100	Grey
43409	Terminal block 32A, 1000V (Inputs / Out)	Flexible (0.5-4mm ²), Rigid (0.5-6mm ²)	1/100	Grey
43409BL	Terminal block 32A, 1000V (DC Control)	Flexible (0.5-4mm ²), Rigid (0.5-6mm ²)	1/100	Blue
43409E	Terminal block 32A, 1000V (Earth)	Flexible (0.5-4mm ²), Rigid (0.5-6mm ²)	1/100	Ylw / Gr
43401	Terminal block 41A, 1000V (Inputs / Out)	Flexible (0.5-6mm ²), Rigid (0.5-10mm ²)	1/50	Grey
43525/24	Jumper (pitch 5.1mm) 25A, 600V	Flexible (2.5mm ²)	1/5	Orange
43520/24	Jumper (pitch 6.1mm) 25A, 600V	Flexible (4mm ²)	1/5	Yellow
43621/24	Jumper (pitch 7.1mm) 50A, 600V	Flexible (6mm ²)	1/5	Green
43010	End plate (1.5mm wide), Suit Euro 2.5 - Euro 4		1/100	Grey
43011	End plate (1.5mm wide), Suit Euro 6 - Euro 10		1/100	Grey
43444	End bracket (stop modules sliding on DIN rail)		1/100	Grey
43300	Marking tags. Printed numbers 1-10 (2 sets)		1/25	White
43310	Marking tags. Printed numbers 1-100 (1 set)		1/5	White
43311	Marking tags. Printed numbers 101-200 (1 set)		1/5	White
43192	Marking tags. Blank stem. 1 stem = 20 Marking Tags. NEW		1/25	White

Connection: Slot screw terminals. **Mounting:** DIN Rail 35.

End Plates: The blocks feature 1 x open and 1 x closed wall so only one End Plate is required to finish either a single module or multiple adjoining modules.

Jumpers: Jumpers can be used to share power from one input cable across multiple modules and are supplied in strips of 24. Ratchet jumper cutting tools also available contact sales.

End Stop: These modules feature a screw which tightens onto the DIN rail to stop modules sliding along the rail.

Accessories: Euro Omega DIN 35 Rails. Angled rail brackets.

Protection covers. Test plugs. Complete range of marking tags.

Colour Options: Blue, Yellow/Green, Yellow, Orange, Red, Green, Black, Brown and White.

Extended Range: Terminal blocks to suit 10mm², 25mm², 50mm², 70mm², 95mm² cable sizes are also available.

Notes: Contact sales for further information.

Approvals:   



43408 Terminal Block 2.5mm²

44 (L) x 36 (H) x 5mm (W)

Connecting capacity: 12mm (CC)



43409 Terminal Block 4mm²

44 (L) x 36 (H) x 6mm (W)

Connecting capacity: 12mm (CC)



43401 Terminal Block 6mm²

50 (L) x 44 (H) x 7mm (W)

Connecting capacity: 18mm (CC)



Connecting Capacity (CC)

Marking Tags - 1 Stem # 43300



43444 - End Bracket

55 (L) x 34 (H) x 6mm (D)



43010 - End Plate, Euro 2.5-4

44 (L) x 35 (H) x 1.5mm (D)



43011 - End Plate, Euro 6-10

50 (L) x 43 (H) x 1.5mm (D)

43525/24 - Insulated Jumper (2.5mm²)

Note: Optional cutting tool P/N: 43515



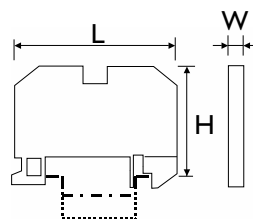
43520/24 - Insulated Jumper (4mm²)

Note: Optional cutting tool P/N: 43516



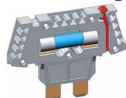
43621/24 - Insulated Jumper (6mm²)

Note: Can be separated by hand, no tools required.



- Push in various circuit protection devices including auto blade fuses or bladed circuit breakers.
- Blocks can facilitate plug in modules. Module options include diodes, MOV's and cartridge fuses.
- Disconnecter options include bladed plug or knife type for on / off switching of a circuit.
- Single or multiple pole terminal blocks with optional insulated and dividable jumper.
- Termination options include screw terminals, screw-less spring terminals or hybrid terminals.
- Marking accessories are available for both the blocks and cables.
- 12V and 24V LED indication options.

Module; Diode, MOV, Fuse Cartridge



Marking Tags
Nbrs 1 - 1000
or Blank Tag

Disconnecter



Auto Blade Fuses



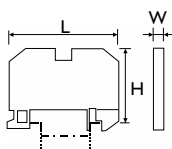
Auto Blade Breakers



Optional
12V LED
24V LED



Part Number	Description	Rating	Pack Size	Dimensions in MM		
				L	H	W
4358100	Auto Blade Fuse Module	25A, 300V	1/50	58.9	29.5	6
4358101	Auto Blade Fuse Module + 12V LED	25A, 300V	1/50	58.9	29.5	6
4358102	Auto Blade Fuse Module + 24V LED	25A, 300V	50	58.9	29.5	6
435G0520	M205 Cartridge Fuse Holder*	6.3A, 250V	20	40	16	6.1
435G6332	3AG Cartridge Fuse Holder*	6.3A, 300V	20	50	20	7.5
435K0000	Disconnecter (Plug Type)	25A, 300V	1/50	19.2	20.4	5
43444	End Stop (Stops Modules Sliding).	-	1/100	55	34	6
43585	Separator / End Plate (1.5mm wide) ^	-	1/50	55	33	1.5
4358630	Separator / End Plate (3.0mm wide) ^	-	1/50	55	33	3.0
43509/12	Insulated Jumper 12 Pole (Pitch 9.1mm) ^	25A, 300V	1/12	-	-	-
43517	Ratchet Jumper Cutting Tool EURO JB	-	1	-	-	-
43300	Marking tags. Printed No. 1-10 (2 sets)	-	1/25	11.9	-	4.8
43310	Marking tags. Printed No. 1-100 (1 set)	-	1/5	11.9	-	4.8
43311	Marking tags. Printed No. 101-200 (1 set)	-	1/5	11.9	-	4.8
43192	Marking tags. Blank stem. 1 stem = 20 Marking Tags.	-	1/25	11.9	-	4.8



Mounting: DIN Rail 35 **Connection:** Screw standard. Optional cage clamp or hybrid connection.

Cable: 0.5mm² to 4mm² (#24-10AWG)

Optional Components: Mini fuse module, non-fused terminal block modules and Euro Omega DIN 35 Rails.

Jumpers: Jumpers can be used to share power from one input cable across multiple fuse modules and are supplied in strips of 12. They can be cut using the ratchet jumper cutting tool #43517. ^ One x 3.0mm or two x 1.5mm separator / end plates are required between each fuse module when using jumpers.

Fuse Modules: Feature 1 x open and 1 x closed wall so only 1 x end plate is required to finish either a single module or multiple modules. Fuse modules accept both auto blade fuses and auto blade circuit breakers. Cartridge fuses can be fitted by purchasing the appropriate fuse holder module which plugs directly into the fuse module.

Fuse Holders: *One x 1.5mm separator / end plate is required between each adjoining fuse module.

End Stop: These modules feature a screw which tightens onto the DIN rail to stop modules sliding along the rail.

Blade Fuse / Breaker Modules

Wire fixing: 2 x screw connectors.
Optional 12V / 24V LED indicator.



Disconnecter

- (1) Plug type. Push in / pull out.
(2) Knife type. Slidable.



Separator / End Plates

Separates terminal blocks.
Completes a row.
1.5mm or 3.0mm width options.



Plug In Component Modules

Cartridge Fuse Module, M205 or 3AG.
Diode Modules. Contact sales.
MOV / Surge Supply Module V130LA2.



Insulated, Dividable Jumper & Tool

12 Pole insulated jumper, pitch 9.1mm,
can cut to order using optional ratchet
cutting tool P/N: 43517.



End Stop

Fitted to each end of a row of
terminal blocks. Stops modules sliding
on DIN rail.



CARTRIDGE FUSE TERMINAL BLOCKS DIN RAIL S4-S10



Part Number	Description
43445H	M205 Fuse Block 4mm ² 30A, 300V Max (CSA)*
43433H	3AG Fuse Block 10mm ² 30A, 600V Max (CSA)*
43444	End Bracket (stop modules sliding on DIN rail)
43300	Marking Tags. Printed No. 1-10. 1 stem = 20pcs
43310	Marking tags. Printed No. 1-100. 1 stem = 20pcs
43311	Marking tags. Printed No. 101-200. 1 stem = 20pcs
43192	Marking tags. Blank stem. 1 stem = 20 Marking Tags.

Conductor
Flexible (0.5-4mm²), Rigid (0.5-6mm²)
Flexible (1.5-10mm²), Rigid (1.5-16mm²)



Mounting: DIN Rail 35

Connection: Slot screw terminals.

End Plates: Not required, enclosed holder.

End Stop: End Bracket 43444.

Accessories: Euro Omega DIN 35 Rails.

Neutral Cartridge Link M205: #43097 (5 x 20mm) p.78

Neutral Cartridge Link 3AG: #43099 (6.3x32mm) p.78.

Extended Range: LED indicating versions also available.

Notes: Contact sales for further information.

Do not disconnect fuse under load. Fuses not included.

Approvals:*

43445H (UL) (15A / 300V), (IEC) (30A / 300V), IEC (6.3A / 250V)

43433H (UL) (30A / 600V), (IEC) (30A / 600V), IEC (6.3A / 250V)

43445H - M205 Fused Terminal Block

66 (L) x 44 (H) x 10 (W)
M205 Fuses see p.14-15



43433H - 3AG Fused Terminal Block

82 (L) x 53 (H) x 10 (W)
3AG Fuses see p.16-17

ENCLOSED SPLICER / POWER DISTRIBUTION BLOCKS

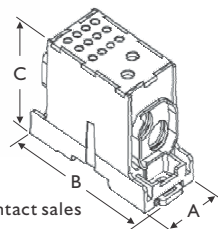


Features

- High Short-Circuit Current Ratings up to 200kA.
- Single pole, small footprint, high short-circuit rated (SCCR).
- Enclosed, safer installation; IP-20 finger-safe under specific conditions.
- Panel mount with elongated holes.
- Sliding DIN rail 35mm latch for easy mounting. *Panel mount models only.
- DIN rail end anchors required to prevent damage to block when torquing.
- Elongated hole for panel mounting; easier mounting with greater flexibility.
- Captive termination screws; screws do not get misplaced.
- Wire ready: captive termination screws shipped backed out to save time on conductor installations.
- Gang mountable for multiple pole applications with interlocking dovetail accessory, spare part 2A1279. Interlocking double sided male dovetail pin accessory, one pin interlocks two units.



Dovetail Slide Lock Multi Pole Feature



Panel Mount & DIN Rail Mount

Dimensions contact sales

Part Number	Ampere Rating	Line Ports Per Pole		Load Ports Per Pole	
		Line	Line Wire Range	Load	Load Wire Range
PDBFS204	175A	1	2/0-8AWG (70-10mm ²)	1	2/0-8AWG (70-10mm ²)
PDBFS220	175A	1	2/0-8AWG (70-10mm ²)	4	4/0-14AWG (25-2.5mm ²)
PDBFS303	310A	1	350kcmil-6AWG (150-16mm ²)	1	350kcmil-6AWG (150-16mm ²)
PDBFS330*	380A	1	500kcmil-6AWG (240-16mm ²)	6	2-14AWG (35-2.5mm ²)
PDBFS377	570A	2	300kcmil-4AWG (150-12mm ²)	12	4-14AWG (25-2.5mm ²)
PDBFS500	620A	2	350kcmil-4AWG (185-12mm ²)	2	350kcmil-4AWG (185-12mm ²)
PDBFS504*	760A	2	500kcmil-6AWG (240-16mm ²)	2	500kcmil-6AWG (240-16mm ²)

Voltage: 690VAC/DC (IEC), 600VAC/DC (UL 1953), 1000VDC (factory self certified to UL 1059 Pt.II).

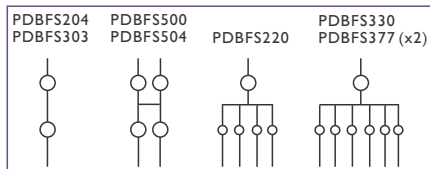
I.R.: Short-Circuit Current Ratings up to 200,000kA.

Body: UL 94VO. **Conductors:** Stranded 75°C copper & aluminum.

Studs: Tin plated AL connectors suitable for CU conductors.

Pack Size: Please contact sales.

Approvals: (UL) (IEC) (IEC) (CE)



Fuse Accessories



Fuse
Microswitch



Cartridge
Fuse Puller



NH Fuse
Puller

Microswitches

NH Fuses (Size 00C to 3)

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Pigtail Fuse Caps

Cartridge Fuses

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Fuse Extension Caps

DIN Medium Voltage Fuses

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Fuse Pullers

Automotive Blade Fuses

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Cartridge Fuses

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NH Blade Fuse Size 000 to 4

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PV Blade Fuse Size 01XL to 3L

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Fuse Puller Tester

Automotive Blade Fuses

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Eaton Bussmann fuses are manufactured with one of these blown fuse indicator systems.

1. Visual Indicator; not designed for use with a microswitch, requires a minimum of 20V to operate.
2. Type T Indicator; compatible with a Type T microswitch, requires a minimum of 20V to operate.
3. Type K Indicator; compatible with a Type K microswitch, requires a minimum of 1.5V to operate.

Type T Microswitch

Part Number	Microswitch Q/C.Lugs	Dimension 'A'
170H0235	6.3 x 0.8mm	20mm
170H0236	6.3 x 0.8mm	17.5mm

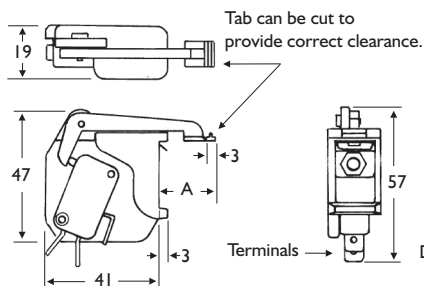
Rating: 2A

Voltage: 250VAC

Indication: One normally open (NO) and one normally closed (NC) contact.

Suits Type T Indicator: DIN 43620, DIN 43653,

Flush End, French and US Square Body fuses.



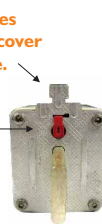
170H0235



170H0236

Type T microswitches are fitted onto the cover plate tag of the fuse.

Flag Indicator



Fuse shown with microswitch attached.

Type K Microswitch

Part Number	Microswitch Q/C.Lugs
170H0069	6.3 x 0.8mm

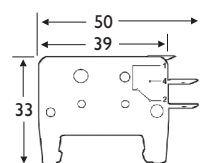
Rating: 5A

Voltage: 250VAC

Indication: One normally open (NO) and one normally closed (NC) contact.

Suits Type K Indicator: DIN 43653, Flush End, French and US Square Body fuses.

Notes: As a matter of safety, the factory mounted adapter must not be removed from the fuse.



Depth: 16.8mm Dimensions in MM



Type K microswitches are fitted onto the black indicator body, which is part of the fuse.



170H0069

Fuse shown with microswitch attached.

These axially welded pigtailed are ideal for PC board mounting of an assortment of miniature fuses.

Part Number	Fuse Cap Dia	Ampere Rating	Lead Dia	Suit Fuse Type
I21.000G	5mm	6.3A	0.65mm	M205, M205C
I21.003	5mm	16A	1.00mm	M205, M205C
I20.100M	6.3mm	12.5A	0.81mm	3AG, 3AB
I20.100	6.3mm	20A	1.00mm	3AG, 3AB

Voltage: 250V

Material: Brass, Nickel Plated

Pack Format: Bulk Box

Pack Size (box): 100, 500, 1000, 2000

Approvals:



M205, M205C fuses with pigtailed fitted.



3AG & 3AB fuses with pigtailed fitted.



Ordering Options:

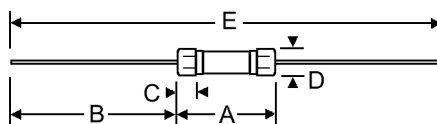
Bulk Parts

1. Each fuse requires 2 pigtail caps. Therefore a pack of 200 pigtail caps will only be enough caps for 100 fuses.

Assembly Services

1. Please specify on your order if you wish to have pigtailed fitted to fuses by adding the letters 'PGT' to the end of the part number. Example Part Number; M205002PGT = M205 fast acting 2A fuse with a pigtail cap fitted to each end of the fuse.

2/. Some fuse series are available preassembled on a taped reel format for automatic insertion. Please contact sales for further information.

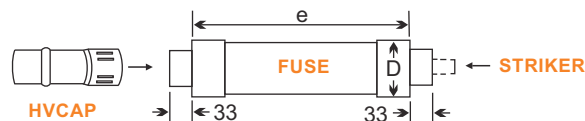


	Dimensions in MM				
Assembled with	A	B	C	D	E
5 x 20mm fuse	22.0	38.0	3.0	6.0	97.0
6.3 x 31.75mm fuse	32.0	40.0	4.0	7.0	112.0

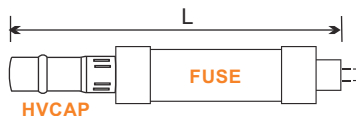
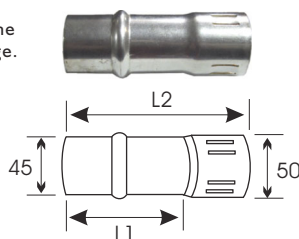
45MM DIAMETER MV FUSE EXTENSION CAPS

HV extension caps allow you to use the new shorter medium voltage fuses in the older holders which previously accommodated longer fuses of the same voltage.

Part Number	Amp Rating	Dimensions in MM	
		L1	L2
HVCAP100	200A	100MM	134MM
HVCAP150	200A	150MM	183MM



Dimensions in MM



Example of HVCap fitted to DIN Medium Voltage Fuse

Assembly Information

DIN HV Fuse Series	Fuse Body Length (e)	Total Fuse Length	Extension Cap	New Fuse Length (L)
19272Bxxxx	192 MM	258 MM	+	HVCAP100 = 358 MM
29212Bxxxx	292 MM	358 MM	+	HVCAP150 = 508 MM

AUTOMOTIVE BLADE & CARTRIDGE FUSE PULLERS

PROLEC

Part Number	Extracts Fuse Type
00970025	Micro2 Fuse & Micro3 Fuse
FP-7AM	Mini Fuse, Low Profile Mini Fuse & Auto Fuse
FP-A3	Ferrule Cartridge Fuse 'AG' Type & Auto Fuse
00970054	Mcase Fusible Link
00970026	Maxi Blade Fuse

Pack Size: 1, 10, 100

Notes: For dimensions please contact sales.
Fuse pullers allow the user to quickly and easily remove a fuse without damaging the fuse block terminals.

00970025



FP-7AM



FP-A3



00970054



00970026



AUTOMOTIVE BLADE FUSE PULLER & TESTER

EATON **Bussmann**

The FT-3 combination fuse tester and fuse puller is designed for easy one-handed use. It tests glass and blade fuses in or out of the fuse block. This continuity tester is for fuses in circuits up to 24V maximum. For easy fuse removal and replacement. Prevents fuse clip, terminal & holder damage. Light glows when fuse is good.

Part Number
FT-3

Extracts: Low Profile Mini, Mini, Auto & Maxi Fuses.
Tests: Low Profile Mini, Mini, Auto, Maxi Fuses, M205, AGC and Midi fuses.
Pack Size: 1, 10, 100



Fuse Puller →

Finger Grips →

Front View
Slidable Fuse Selector →

Fuse Testing Pins →

Rear View
LED Indicator

Fuse



CARTRIDGE FUSE PULLERS

EATON **Bussmann**

Part Number	Fuse Diameter Metric	Fuse Diameter Imperial
FP-2	10.3 to 20.6MM	13/32" to 13/16"
FP-6	10.3 to 25.4MM	13/32" to 1"
FP-3	25.4 to 44.4MM	1" to 1-3/4"
FP-4	44.4 to 63.5MM	1-3/4" to 2-1/2"

Extracts: Ferrule cartridge fuses, cartridge neutral links and USA blade industrial fuses.
Pack Size: 1, 10

FP-2



FP-6



FP-3



FP-4



NH BLADE FUSE EXTRACTOR

EATON **Bussmann**

Part Number	Extracts Fuses	Body Size
NH-EXTRACTOR	NH DIN 690V	000, 00, 0, 1, 2, 3 & 4
FEH-1500B	NH PV XL 1500V	1XL, 2XL, 3L

Pack Size: 1

NH-EXTRACTOR

FEH-1500B



Fuse pullers are only to be used when the associated circuit has been de-energized.

Information



Fuse Information

Page

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General Information

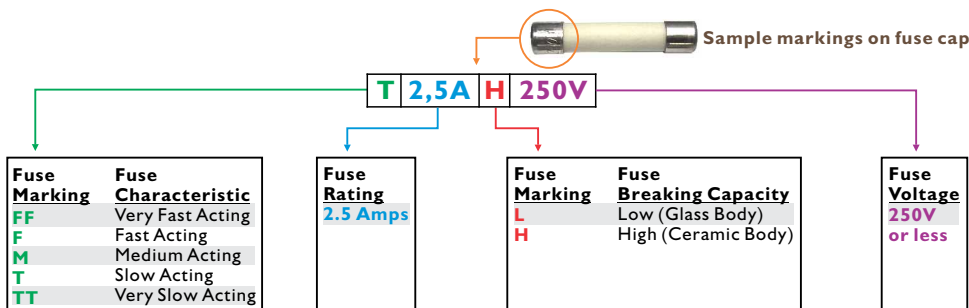
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FUSE MARKINGS EUROPEAN INDUSTRIAL FUSES

Fuse Marking	Breaking Capacity 1st Letter	Characteristic 2nd Letter
gB	= g Full Range	B General Application, Robust for mining application.
gL	= g Full Range	L General Purpose. Cable and Line Protection
gG	= g Full Range	G General Purpose. Cable and Line Protection
gM	= g Full Range	M Protection of electrical motors. Capable of withstanding motor starts.
gTr	= g Full Range	Tr General Purpose Transformer Protection.
gR	= g Full Range	R Very Fast Acting. Rectifier Protection.
aR	= a Partial Range	R Very Fast Acting. Rectifier Protection.
gRL	= g Full Range	RL Very Fast Acting. Rectifier Protection, Line & Cable Protection.
gPV	= g Full Range	PV Very Fast Acting, Photovoltaic Protection.
gS	= g Full Range	S Very Fast Acting, Protection for power semiconductors in drives.
aM	= a Partial Range	M Protection of electrical motors. Capable of withstanding motor starts.
	= Snail Symbol	General Purpose / Slow

INTERNATIONAL APPROVAL MARKINGS

 AS (Australia)	 CSA (Canada)	 MITI (Japan)	 UL (Canada)
 BEAB (UK)	 DEMKO (Denmark)	MOD MOD (UK)	 UL (Canada & USA)
 BSI (UK)	 DIN (Germany)	 NEMKO (Norway)	 UL (USA)
 CCC (China)	 FIMKO (Finland)	 NF (France)	 UMF
 CCEE (China)	IEC IEC (Global)	 OVE (Austria)	 UR (Canada)
 CE (EU)	 IIMQ (Italy)	SAE SAE	 UR (Canada & USA)
 CEBEC (Belgium)	 KEMA (Netherlands)	 SEMKO (Sweden)	 UR (USA)
 CENELEC (EU)	 KTL (Korea)	 SEV (Swiss)	 VDE (Germany)
 CQC (China)	 METI (Japan)	 TÜV (Germany)	
 HF Halogen Free	 Pb Lead Free	 RoHS (EU)	 RoHS (China)

CATALOGUE SYMBOLS

NEW New Product

MIL-STD Military Standard

IGNITION PROTECTED Ignition Protected

IP66 Ingress Protection (IP + Rating)

 Information

 Warning Note

 Did You Know?

Fuse Terminology Explained.

If you are confused by some of the terminology associated with electrical fuse products, then visit www.swe-check.com.au or email a request to sales@swe-check.com.au for the 'Fuseology' data sheet.

- It contains explanations of many common fuse terms such as;
- Interrupting rating (breaking capacity)
 - Clearing time
 - Derating
 - Fast / Slow Acting etc.

Scan this
QR Code
for more
information



QR Code: 1000

FUSE SELECTION (RECOMMENDATION) FORM

Need A Fuse?

Swe-Check provide a fuse selection service. Simply obtain a copy of our datasheet and return the completed form to us via fax / post / email. Our sales staff will contact you with our recommendations and provide product data sheets if required.

Scan this
QR Code
for more
information



QR Code: 1001

COMPARISON of gS, gR & aR SEMICONDUCTOR FUSES

gS, gR & aR Class Fuses - What Does It All Mean?

With so many different types of semiconductor fuses on the market, it can be difficult to understand the circuit protection capabilities of each fuse class. We have created this datasheet to help explain the meaning of these fuse classes.

Scan this
QR Code
for more
information

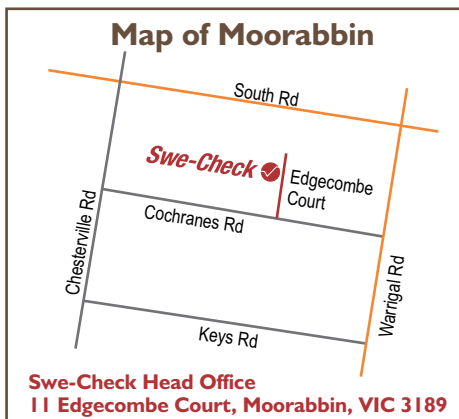


QR Code: 1002

SWE-CHECK OFFICE / WAREHOUSE LOCATION

Trade Counter: Our trade counter is open during normal office hours. Over the counter sales are accepted, however we do recommend that you either call or check our webstore first to see if the stock is available. Pre-ordering your goods will also reduce waiting time.

Feature Display Room: A newly constructed product display wall features many of our popular and new products. Manufacturers product catalogues on hand should you wish to see them.



Swe-Check Head Office
11 Edgecombe Court, Moorabbin, VIC 3189

Delivery

Delivery shall be the responsibility of Swe-Check and a delivery fee will be charged. Any discrepancies in deliveries must be notified within 7 days of receipt of goods. We will quote the delivery fee based on parcel size, destination and delivery time frame. Alternatively you can nominate your own freight carrier and accept all freight charges.

Risk & Insurance

The Goods shall be delivered to the Customer's address as notified to the Supplier at the time of order. From the time of dispatch from Swe-Check's premises and until delivery, the risk of any loss or damage to or deterioration of the Goods for whatever cause arising shall be borne by the Customer.

Terms of Payment

Approved account holders are entitled to a 30 day credit period from the invoice date. Non-account holders must arrange payment by one of the listed payment options prior to delivery. Accounts will be closed if not used within a 12 month period. Credit application is available upon request or can be down loaded from the company website. Delivery of a cheque or negotiable instrument shall not constitute payment unless and until such instrument is honoured by the payers bank. Ownership of the goods does not pass until such time as the goods are paid in full.

Payment Options

- Cash, Cheque, Money Order, Eftpos
- Credit Card (Mastercard, Visa & American Express)
- Electronic Fund Transfer or Bank Deposit.

Return of Goods

- Before returning goods, please contact Swe-Check for an 'Approved Returns' form. Returned goods will only be accepted if they are;
- Returned in the same condition as delivered
- Accompanied by an 'Approved Returns' form
- Received by us within 14 days from invoice date.
- Indent (non-stock) items will not be accepted for return (unless proven to be faulty). A restocking fee of 20% will be charged on returns not covered by the Australian Fair Trading Act & Trade Practices Act. If goods were purchased using American Express card, an additional fee of 3% will be charged on return value.

Warranty

The only warranty applicable to the goods is any written warranty included in the quotation. Swe-Check shall not be liable for any personal injury, property damage, negligence or otherwise by Swe-Check, its servants or associated entities.

Goods & Services Tax (GST)

Prices in this publication do NOT include GST where applicable, by Australian Government Law currently 10%. Only exports are exempt from GST.

Pricing & Exchange Rate Variations

Prices are quoted in Australian Dollars. Prices quoted on some items may be based on a specified currency and quoted exchange rate. Swe-Check will cover variations of up to +/-2% of the quoted exchange rate. Any variation greater than +/-2% between the quoted exchange rate and the bank sell rate at date of invoice shall be applied to the Buyer's account resulting in an extra cost in the event of a less favourable rate or credit in the event of a more favourable rate. The Buyer accepts the bank sell exchange rate applicable at the date of the invoice as notified by Swe-Check.

Order Cancellation or Variation

Orders may NOT be cancelled within 60 days of their scheduled delivery.

Breach

Any one of the following acts by the customer shall constitute a breach of the customer's obligations hereunder

- Failure to make payment for the goods when payment is due.
- Failure to accept delivery of goods supplied as per customer's order.
- Return of goods without consent
- Any other act by the customer in violation of any of the provisions hereof.

In the event of a breach by the customer, Swe-Check may terminate the customer's order or any part thereof without any liability costs, including but not limited to reasonable legal fees incurred by Swe-Check in any effort to collect payment owing or otherwise enforce rights hereunder.

Minimum Invoice Value

Minimum invoice value is \$30.00, NOT including GST or freight costs.

Disclaimer

Information provided in this catalogue are accurate to the best of our knowledge, but we cannot accept any liabilities for errors or omissions. Swe-Check reserves the right to change or update, without notice, any information contained within this catalogue.

Force Majeure

Swe-Check will not be liable for any failure to deliver or any delay in delivery due to any cause beyond its control including but not limited to Acts of God, fires, labour disputes, inability to obtain material or government actions. In the event of any such delay the date of delivery will be extended by a period equal to the time lost by reason of such delay.

Acceptance of Terms and Conditions

The customer accepts the above terms and conditions by failing to object to such terms and conditions within 14 days of notification of said terms and conditions

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C22M	CH22-SB..	79	FC-101	FC-101	113	FSMD..-1812	FSMD..-1812	6
C2F..	C2F..	7	FC-103	FC-103	113	FSMD..-2920	FSMD..-2920	6
C2Q..	C2Q..	7	FC-104	FC-104	113	FSMD..-RZ	FSMD..-RZ	6
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* Contact Swe-Check for clarification.

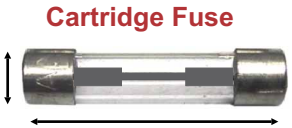
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How to measure various fuse types?



Provide length x width.

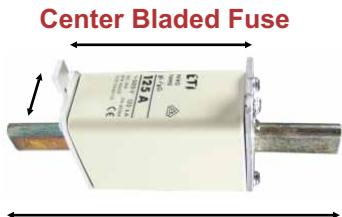


Provide overall length, body width and the top neck cap width.

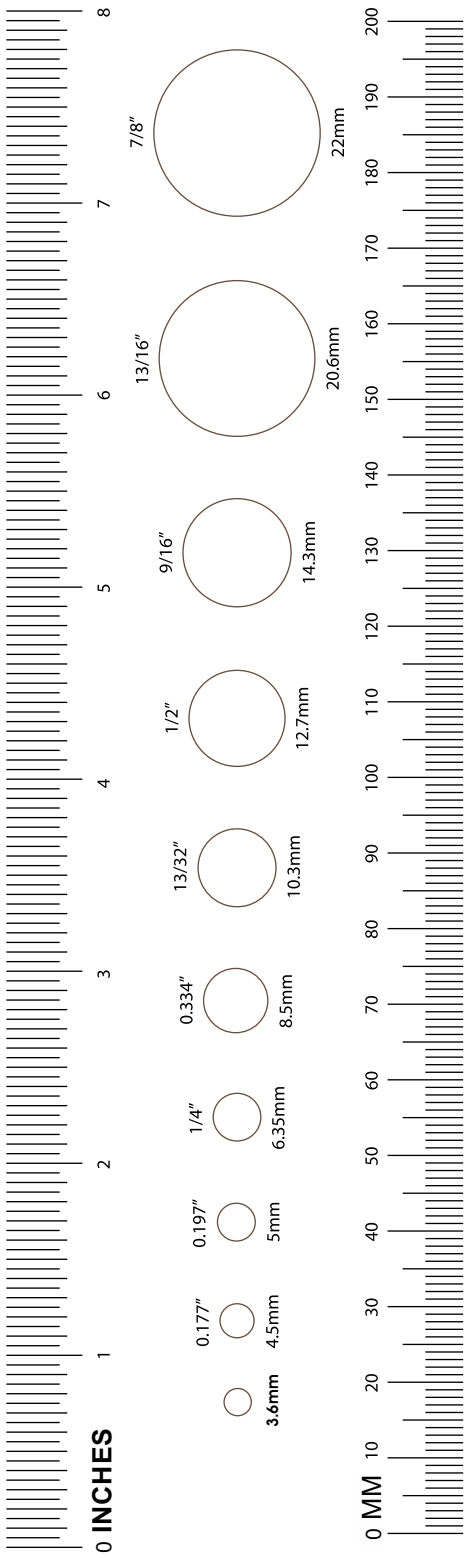
Bolted Tag Fuse (Center or Offset)



Provide overall length, body width and the fixing centers.



Provide overall blade length, fuse body length and body width.



Swe-Check

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