



Eaton Bussmann® series 5 mm diameter fuses in a variety of constructions



Eaton Bussmann series 5 mm fuses carry global IEC and UL certifications across the full range of products, including higher current and high voltage ratings (up to 20 A and 420 Vac in the S520 5 x 20 mm family).

Extensive offering

Eaton Bussmann series 5 mm fuses carry global IEC and UL certifications across the full range of products, including higher current and high voltage ratings. These products are available in cartridge and axial leaded constructions. The high power requirements of today's end products require higher amperage and/or voltage fuses. Eaton provides fast-acting/time-delay overcurrent protection while allowing customers to shrink their design footprints.

Power conversion plays a critical role in virtually any electronic device. For example, power supplies and power adapters convert high voltage AC from the utility source to lower voltage DC often used to power today's computing, industrial, commercial, and consumer loads. Because these products are connected to higher potential fault current sources and exposed to dangerous overcurrent events, they require reliable primary circuit protection.

Packaging options

Eaton offers a variety of packaging options to meet your needs, from high-volume production to end assembly fuse replacement. These range from 5 pack tins to 100 or 1000 quantity packaging. When axial leads are required, tape and reel packaging are available for automated assembly.

Fuse accessories

To install any cartridge fuse in an application, Eaton offers an extensive range of fuse accessories to integrate the overcurrent protection device in a variety of desired positions for isolation or fuse replaceability. This includes printed circuit board fuse clips and fuse blocks, in-line and panel mount fuse holders.

RoHS compliance

All of Eaton's 5 mm cartridge and axial leaded fuses are RoHS compliant. This also includes the accompanying fuse accessories by adding a "-R" suffix to the base part number; often this is standard.

Applications

Applications for Eaton's 5 mm cartridge and axial leaded fuses include computing, industrial, commercial, and consumer devices and equipment, such as:

- Power supplies
- Power adapters
- Battery chargers
- Tablet and notebook chargers
- Commercial printers
- TVs / video displays
- Game systems
- Set-top boxes
- Air conditioners
- Lighting ballasts
- Programmable logic controllers
- Datacenter power supplies
- Secondary transformer protection



Powering Business Worldwide

5 mm fuse family overview and quick cross reference

Electrical performance	Construction	Competitor A	Competitor B	Competitor C	Eaton/Bussmann
5 x 20 mm fuses					
IEC Fast-Acting	Glass; Cartridge & Axial	217	FSF	5SF	S500
IEC Fast-Acting	Ceramic; Cartridge & Axial	216	SP / SA	5HF	S501
IEC Time-Delay	Ceramic; Cartridge & Axial	215	SPT	5HT / 0659C	S505/ S505SC
IEC Time-Delay (High I ² t)	Ceramic; Axial Leads	835			S505SCH
IEC Time-Delay	Glass; Cartridge & Axial	213 / 218	FST / FTT	5ST / 5VT / 5ET	S506
IEC Time-Delay (High Vac/dc)	Ceramic; Cartridge & Axial	477 / 977			S505H
IEC Fast-Acting (High Vac)	Ceramic; Cartridge & Axial	487	UBF/UBF-A		S520
UL Fast-Acting	Glass; Cartridge & Axial	235	FSK	5MF	GMA
UL Medium Time-Delay	Glass; Cartridge & Axial	233		5MT	GMC
UL Time-Delay	Glass; Cartridge & Axial	239	FSL	5TT	GMD
5 x 15 mm fuses					
UL Time-Delay	Glass; Axial Leads	230		3JS	C515
UL Fast-Acting (350Vac)	Glass; Axial Leads	220 / 208		0657P	C517
UL Fast-Acting	Glass; Axial Leads	224		3JQ	C518
UL Time-Delay	Glass; Cartridge	229		2JS	C519
UL Fast-Acting	Glass; Cartridge	225		2JQ	C520

*UL characteristic is defined under UL248-14; IEC characteristic is defined under IEC 60127

5 mm cartridge fuse accessory reference guide

Fuse size	PCB Fuse clip	PCB fuse holder	Panel mount holder	In-line holder	PCB Block	DIN rail holder
5 x 20mm	1Axxxx ; HTC-2xxM	H15	HTB-xxM	HHT	HTC-15	XB Family
5 x 15mm	1Axxxx ; HTC-2xxM			HHT		

Tools & resources

- [Webpage](#)
- [How to select a fuse holder](#)
- [Fuse accessory selection guide](#)
- [Parametric search tool](#)
- [Contact us](#)

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