CMF Series High-Current SMD Fuse





SURFACE MOUNT

FUSE PROTECTION FOR HIGHCURRENT CIRCUITS

Single Fuse Solution For High Current Applications

Applications

Data Center

- Blade Servers
- Server Chassis
- Backplane Boards
- Line Cards

Power System

- Uninterrupted Power Supply (UPS)
- Base Station Power Supply
- High Power Battery Systems
- Power Factor Correction (PFC)

- Reliably use single fuse instead of multiple fuses in parallel.
- AEM CMF Series SMD Fuse enables high power equipment to use less board space.
- Available in 60A ~ 200A & voltage 75-125VDC within a small footprint and low profile .

Minimize system loss and increase efficiency while protecting against overload fault current. High interrupting rating at 3000A@125VDC to suit a wide variety of applications. High surge withstand capability helps prevent nuisance trips due to transient voltage spikes.

UL Recognized 75VDC & 125VDC-rated High-current CMF Subminiature SMD Fuse with Small Footprint





Features

- Available in 20A ~ 200A current ratings
- High interrupting rating at 3, 000A@125VDC
- Opens in 60 seconds or less at 200% rated fuse current
- Surface mount type in a small footprint and low profile

  CM5040: 12mm X 10mm X 6.8mm

  CM2840:7.3mm X 10.3mm X 5.8mm

  CM2822: 7.3mm X 5.8mm X 4.2mm

Benefits

- Save space by using a single fuse rather than multiple fuses in parallel
- Reliably protect against overload and short circuit events
- Coordinated protection with upstream overcurrent protection devices
- Compatible with high speed pick and place assembly process

SINGLE FUSE SLOUTION FOR HIGHCURRENT CIRCUITS PROTECTION

Why a High-Current Surface Mount Fuse Needed?

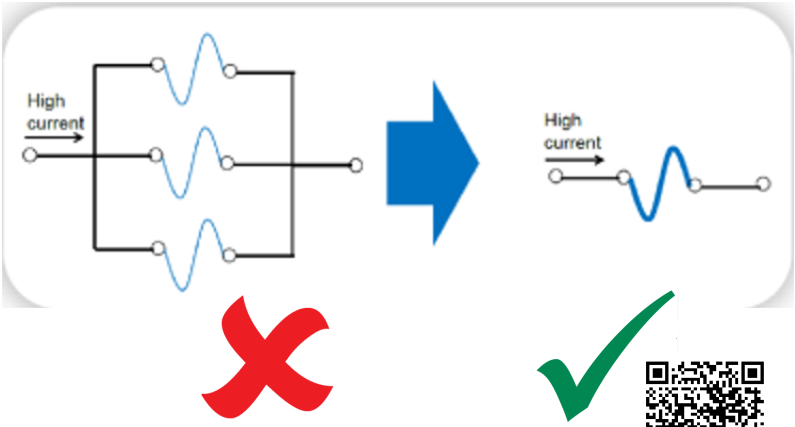
With the increasing demand for IoT connected devices and wireless cellular data traffic, datacenter system engineers are being asked to increase server capability. This increased computing power needs higher power electrical power and higher energy density equipment.

AEM CMF Series SMT Fuse provides a single fuse solution up to 125VDC with 20A to 200A current rating range. The high current rating makes it possible for system designers to use a single fuse, where they previous would use two or more lower current rated fuses in parallel.

Parallel Fuse VS AEM CMF Series Fuse

Placing two or more fuses in parallel requires additional design effort to ensure nuisance trip avoidance when compared to using a single fuse. The below factors should be reviewed when comparing parallel fusing to using a single fuse:

- Same exact fuse part number from single manufacturer
- Multiple de-rating factors (Two 50A fuses does not equal one 100A fuse)
- Additional space and PCB layout complexity required to ensure proper current sharing









Data Sheet

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