

# ELECTRICAL PROTECTION & CONTROL

Electricity runs the world. At Mersen, we keep it safe and reliable with a comprehensive range of products and services to protect your products and systems and the people who use them. Explore what we can do for you!

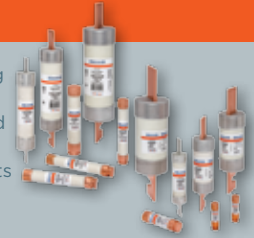
## AMP-TRAP 2000® FUSES

- Time-delay, Class RK1, J, CC and L power fuses
- Type 2 “No Damage” Protection
- Arc flash mitigating
- Highly current-limiting for low peak let-thru current
- Opens in less than one-quarter cycle



## TR/TRS TIME-DELAY/ CLASS RK5

- Tri-Onic® TR and TRS current-limiting time-delay fuses are engineered for overcurrent protection of motors and transformers, service entrance equipment, feeder and branch circuits
- Safely handles harmless starting currents and inrush currents



## ULTRASAFE™ FINGER SAFE FUSE HOLDERS

- For Class CC, Midget and IEC 10x38mm; Class J, IEC 14x51mm and IEC 22x58mm fuses
- Quick fuse change-outs
- Visual blown fuse indication
- Global certifications
- Easy panel layout adjustments
- DIN-rail mounting



## FINGER SAFE POWER DISTRIBUTION BLOCKS

- Finger-safe design: Fully covered block ensures that no one can touch live parts
- Compact footprint
- Accommodates AL or CU wire
- Variety of configurations with box, stud, and QC terminations
- Flexible, adder pole options



## MEDIUM VOLTAGE FUSES

- Medium Voltage current-limiting fuses in a wide range of ratings and configurations
- General purpose, E-Rated fuses for overload and short circuit protection of transformers
- Our R-Rated fuses are back-up type, current-limiting fuses for motor protection



## SURGE-TRAP® SURGE PROTECTIVE DEVICES

**TPMOV**  
TECHNOLOGY

- UL1449 4th Edition approved
- Wallmount, Panelmount, and DIN-Rail Type 1 SPD options
- Protection options ranging from 50kA-450kA
- Designed with TPMOV technology



## ENCLOSED DISCONNECT SWITCHES

- Meets OSHA lockout / tagout requirements
- NEMA Type rated enclosures
- Knockouts provided on non-metallic enclosures (16-60A non-fused)
- Easy screw mounting
- Clear ON/OFF indication
- Load break switching



## ENGINEERED PANELS AND SWITCHES

- Fused selective coordination panels offer a cost-effective solution and provide selective coordination with 2:1 ratios, using Amp-Trap 2000® fuses
- Fusible shunt trip (elevator) switch allows for remote disconnection and provides high current limitation and short circuit withstand



# SOLUTIONS FOR POWER MANAGEMENT

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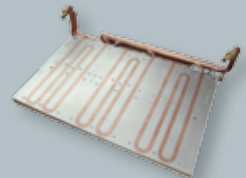
## COOLING: AIR-COOLED HEAT SINKS

- The highest performance heat sink technology in the world
- Swaging process developed and patented by Mersen, boosts the efficiency of air cooled heatsinks with thinner, longer fins on denser or mixed metals to get maximum thermal conductivity while keeping weight down



## COOLING: LIQUID-COOLED HEAT SINKS

- Vacuum brazing offers reliability and lasting performance
- Effective and reliable protection of power electronics components such as IGBTs and thyristors
- Numerous liquid cooling options designed for tight, confined spaces



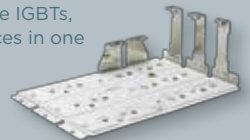
## COOLING: PHASE CHANGE

- High thermal performance - superior to standard air cooled products
- Convection boiling resulting in instant cooling action
- Easy maintenance compared to liquid cooling systems, as heat pipes are self sustained devices and require no external water pumps or tubing



## LAMINATED BUS BARS

- Excellent packaging efficiency
- All electrical connection points for the IGBTs, Capacitors, I/O, and monitoring devices in one clean bus bar
- Improved overall system reliability
- Optimal electrical performance



## SEMICONDUCTOR PROTECTION FUSES

- Round or Square body semiconductor fuses to protect your power electronic devices
- Protection ranges from 130VAC to 1300VAC with many international accepted mounting styles, features, and accessories
- Provides protection for IGBTs, thyristors, triacs, diodes and other solid-state devices



## PROTISTOR SEMICONDUCTOR PROTECTION FUSES

- 10-day delivery on over 550 PSC fuses in eight different body sizes
- State-of-the-art protection for SCRs, diodes, thyristors, GTOs, and IGBT devices
- Controlled arcing characteristics for low I<sup>2</sup>t and high interrupting rating
- Equipped with low voltage trip-indicator



## DC FUSES

- Full-range DC Protection
- Ferrule and square body styles available in varying sizes
- Protection available from 440VDC up to 4200VDC



## PROTECTION & OPERATION DEVICES FOR DC APPLICATIONS

- Clear both high and low DC fault current
- Limit or eliminate the impact of severe duty cycles
- Decrease power losses to improve system efficiency
- Hybrids offer a reliable and robust alternative to DC relays, DC contactors, DC switches



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