

Resources & Tools

Strapped for time? Try some of these time-saving resources to enhance your electrical safety initiatives.



Your problem:

Thanks to downsizing, restructuring, and other cost-saving initiatives, your facility is running lean and mean. You have to do much more with a lot less. And, you have to figure out how to do it safely and effectively.

Our solution: Our goal is to offer the right solution for the right application or business challenge. Need a quick, effective tool that will help you find the best heatsink to fit your space? Try our R-Tools® 3D Heatsink Thermal Modeling. Need to specify the right fuse fast? Explore our Select-A-Fuse® Software. Want a sure fire way to 5S your fuse maintenance program and reduce your inventory by 25% or more, then explore our innovative Fuse Control™ program. We have these and many other timesaving resources.

Want more information fast? If you want more in depth information on these resources & tools, visit our website at ep-us.mersen.com, or call Technical Service Support at 978-465-4853.

Resources & Tools

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FERRAZ SHAWMUT IS NOW MERSEN



Arc Flash Info Center™



Learning about arc flash makes you an even more valued resource.

Arc flash is a daily threat to your customers. It can blind, burn, or even kill in an instant, and there's no one, sure protection. But there is an excellent

defense: knowledge. The more you know about how arc flash occurs, the better you can help your customers stay safe, protect their equipment, and comply with OSHA requirements.

A lot has been written about arc flash—a simple Internet search alone finds more than 3 million references. But you don't need to search website after website for the accurate, up-to-date information you need to protect your workers. Just visit the Arc Flash Info Center.™

Developed by Mersen, the Arc Flash Info Center is your online guide to understanding arc flash requirements and improving plant safety. From a startling look at an arc blast to explanations of current-limitation and hazard analysis to an interactive Arc Flash calculator, it gives you an up-close view of this vital topic.

We've been heavily involved in arc flash research and testing for many years, amassing a valuable base of information that's available to you—free. You'll learn how arc flash protection is the sum of many factors: routine electrical safety analysis, staff training, appropriate circuit protection devices, and the right personal protective equipment (PPE). Considering how your customers' safety can go up in a flash, that's valuable information to share. Find out more about arc flash and the products that can mitigate it by visit the Arc Flash Info Center.

Here's what you'll discover on the Arc Flash Info Center:

Arc Flash Hazard Background

- The causes
- Arc Flash hazard
- Test lab examples
- Regulations

Hazard Analysis

- Why hazard analysis?
- Nine steps of Arc Flash hazard analysis

Reducing Arc Energies with Fuses

- Using current-limiting fuses
- Understanding current-limiting fuses
- Recommended fuses for Arc Flash mitigation
- Arc Flash calculator

Getting Help

- Technical services
- Training
- More information
 - Books & standards
 - Articles & white papers
 - Literature
 - References
- Helpful links

FAQs

What's New

- News releases
- Events



ep-us.mersen.com/arcflash

Electrical Services

Mersen has built a reputation for providing innovative electrical protection products that meet NEC, UL, CSA, IEC, ANSI/IEEE, CE, NFPA, and other critical safety standards. In fact, many of our respected field engineers serve on leading electrical safety codes and standards committees.



Today, Mersen brings its highly regarded electrical protection expertise to you through our new suite of Electrical Services. Discover why more Safety Managers, Facility Engineers and Maintenance Supervisors turn to Mersen to help them put electrical safety to work for their companies. We offer:

Electrical Safety Project Management

Mersen can coordinate some or all of the electrical safety requirements for a facility. This may include initial assessment through program development, implementation or training. Or you may choose this service on a project basis for assistance with arc flash analysis, integrating the latest NFPA 70E requirements, development of Request for Quote (RFQ) packages for Arc Flash studies, and more.

Arc Flash Hazard Analysis

Turn to our experienced team of electrical safety engineers to analyze your electrical system's exposure to arc flash and other electrical hazards in accordance with NFPA 70E and OSHA. A standard analysis includes: arc flash, shock and other hazards assessment, arc flash incident energy calculations, arc flash protection boundary calculations, determining hazard risk categories, required PPE, and recommended warning labels for electrical equipment.

One-Line Drawings

The foundation of a strong electrical safety program is built upon one-line electrical drawings that are current and accurately represent the facility's electrical system with all of the electrical components, power sources, and electrical equipment located and clearly identified.

Short Circuit Analysis & Coordination Studies

Mersen's seasoned electrical safety experts are available to provide analysis of short circuit current faults, identify electrical equipment deficiencies and inappropriately sized components, conduct circuit protection coordination studies, and pin-point potential short circuit current rating (SCCR) issues.

Field Inspection and Data Collection Supervision

Electrical engineers are available to perform field inspections in order to help ensure your facility is compliant with today's electrical codes. Our team is also on hand to supervise data collection and input to ensure the accuracy of arc flash calculations.

Hazard Labeling

After we complete your arc flash energy calculations, Mersen helps you satisfy the NEC 110.16 code and NFPA 70E standards requiring Arc Flash Warning Labels on all equipment that could be energized while being worked on.

Electrical Safety Program Audit

Mersen is available to provide an objective review of your facility's electrical hazards and safety manual for NFPA 70E and OSHA compliance in a confidential audit process.

Product Analysis & High Power Testing

Turn to Mersen to help with forensic analysis of electrical products. We can help identify fault levels, durations, temperatures and target the reason why the products operated.

Need More Information?

For additional information, please contact us:

Email: electricalservices.nby@mersen.com

Call: 978-462-6662

Electrical Services Seminars & Training

The standard electrical training programs we can bring your facility.

Introduction to Arc Flash Hazards – This is a 2, 4, or 6-hour seminar ranging from an overview to a thorough session. The objective is to present an overview of 70E and to explain selected OSHA and 70E requirements relevant to arc-flash and fusible protection. This seminar also discusses real world examples.

Arc Flash Safety for Equipment Installers – This 6-hour seminar presents an overview of 70E requirements relevant to arc flash for individuals that will be working within their customers' facilities. The NFPA Electrical Program Safety Book is discussed in reference to different facility safety programs. This gives a basic understanding of arc flash hazards and the value of safety programs. Relevant laws, codes and standards are discussed.

General Electrical Safety for Shock, Arc Flash, and Arc Blast – This 6-hour seminar combines arc flash safety with shock hazard safety for a full understanding of electrical safety. It begins with laws, codes, and standards, then progresses to a detailed explanation of the hazards, and ends with PPE and test equipment.

Complete Arc Flash Safety – This is a two or three day seminar. It introduces OSHA, key national standards, and standards development organizations. The seminar gives understanding of electrical hazards, proper work practices, and related grounding considerations. It also reviews how PPE and ground fault items can increase safety.

2008 National Electrical Code Over-Current Protection Updates – This 4-hour seminar reviews the most important code changes pertaining to overcurrent and overvoltage protection. These topics include Short Circuit Current Ratings (SCCR), interaction with UL 508A, safety labeling requirements, surge suppressors, selective coordination requirements, and other changes affecting overcurrent ratings of equipment.

Short Circuit Current Rating (SCCR) calculations for Panel Builders –

This 4-hour program explains to panel builders the whys of SCCR requirements. It includes examples of calculating SCCR in accordance with UL 508A and typical solutions to upgrading panel SCCR ratings.



Use of Power Distribution Fuses for 600 Volts and Below – This 4-hour seminar is intended to teach the fundamentals of selecting fuses for power distribution applications including motors and transformers 600 volts and less. It covers normal applications, UL fuse types, and gives an appreciation of the strengths and limitations of fuses.

Basics of Selective Coordination – This 4-hour program explains the National Electrical Code requirements for selective coordination. It gives the student a conceptual understanding of selective coordination. It reviews some examples using time current curves with circuit breakers and fuses for NEC compliance.

Customized Electrical Training Services – Combinations of standard courses can be customized for your individual facility, equipment, and procedures. Some of the more common requests are below:

Industrial Electricity: Basics and Troubleshooting – 3 days
National Electrical Code Basics – 3 days
Grounding and Bonding – 2 days
Hazardous Locations – 3 days
Industrial High voltage Safety – 2 days

Need More Information?

For additional information, please contact us:

Email: electricalservices.nby@mersen.com

Call: 978-462-6662

Fuse Control™ Program



Mersen's Fuse Control™ program is a powerful combination of circuit protection products and services designed to help you get control of your facility's inventory, operating costs, code compliance and workplace safety.

Developed by Mersen and refined through extensive field research, Fuse Control is a simple program that packs a lot of power. It will give you the edge you need to mitigate arc flash hazards, achieve code compliance, reduce inventory by 25% or more — and offer the highest grade overcurrent protection available. Get Fuse Control and enjoy these five benefits:

- Improved workplace safety
- Easier electrical code compliance
- Reduced downtime associated with electrical failures
- Streamline inventory - as much as 25% or more
- Run Leaner and decrease operating costs

How can one program deliver such benefits?

It's easy! Let the fuses do the work. The key lies in consolidating your current inventory and installed overcurrent protective devices into one fuse line - Mersen's innovative current-limiting, arc flash mitigating, Amp-Trap 2000® fuse family.



Order Fuse Control and receive a FREE Fuse Inventory Audit & Analysis

Take action today to get control of your inventory, contact a Mersen Sales Representative to initiate your Fuse Control program today. The initial storeroom audit and database analysis is very simple and will take up little of your time or resources. Also, did we mention it is free!

Ask your Sales Representative about the Mersen Fuse Control program today.

Implementing Fuse Control in Three Easy Steps

Storeroom Audit and Database Analysis



Consolidation Report & Plan



Implementation

Free Resources

- **Fuse Control Guide** - Go to ep-us.mersen.com/oem/resources/literature and download Fuse Control™ Solutions Guide
- **Inventory Template in MS Excel** - ep-us.mersen.com/about-you/fusecontrol.cfm
- **Bin Labels Template in MS Word** - ep-us.mersen.com/about-you/fusecontrol.cfm

Need More Information?

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Call: 978-462-6662

High Power Test Lab

Our focus on efficiency makes the Mersen test facilities extremely productive and affordable for all your testing needs. Our customers turn to us to avoid the inconveniences of long lead-times for test dates, and to gain the advantages of rapid setup and change over times (e.g., circuit-switching in five minutes vs. one hr.) allowing us to provide you more “shots” per day. We appreciate that our customers expect flexibility, and we make every effort to accommodate their unique testing requirements.

Mersen offers our customers global test capabilities for testing products in North America (Newburyport, MA) or in Europe (Saint Bonnet, France). Our labs are ready and able to meet all your test requirements from UL or CSA approval testing in North America to IEC testing in Europe.

This is why innovative and successful companies who manufacture equipment like AC and DC drives, soft starters, UPS’s, lighting controls, circuit breakers, MCC, industrial controls, cables, surge suppression devices and many other electrical products select Mersen and our global test capabilities as their partner when it comes to critical design and approval testing. They value our on-site engineering trouble-shooting expertise and consultation services.

Our facilities in North America and Europe have the capability to test from the smallest components to large complete systems such as motor control centers and power distribution panel boards. Our lab provides precise graphical representation of even the lowest levels of current, voltage and time.

To keep you and ourselves competitive, we are continually reviewing and updating our data acquisition technologies, lab design, and test procedures. Turn to the Mersen high power test labs for expert, effective, accurate, and affordable high power electrical testing.

To schedule test time, contact us at:

Mersen Newburyport Laboratory

Phone:

978-465-4834

Fax:

978-462-7934

Email: jim.marshall@mersen.com



Mersen Lyon Laboratory

Phone: +33 (0)4 72 22 69 90

Fax: +33 (0)4 26 29 29 26

Email: sylvie.rathoin@mersen.com

When a test date has been arranged, the client will be sent an Engineering Test Agreement which must be filled out and returned prior to the test date. This agreement verifies the test date, and sets forth contract conditions for the client and the lab. Liability and responsibility are explained in the test agreement.

Requirements

- Client Purchase Order
- All witnesses to test must conform to Test Lab Visitor’s Safety Policy
- Clients must read and sign Visitor’s Safety Policy
- Test Lab recommends that the client have an engineer present during actual testing to ensure compliance to any special requirements

Testing

- Summary sheet of test lab charges is available on request and will be sent with the Engineering Test Agreement
- Testing is normally run in accordance with recognized standards such as UL, CSA, MSHA, and IEC.
- All testing is treated with the strictest confidential awareness

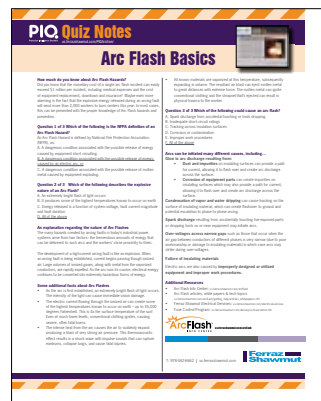
PIQ Quiz

Come see what's new with PIQ

Every quarter, Mersen features a new opportunity to test your knowledge of electrical protection and a new chance to win a prize. What are we offering today? Visit the PIQ Quiz at: ep-us.mersen.com/PIQ



At the conclusion of every quiz, you are invited to enter your name into the contest and you can check out the "Learn More" page where you'll find a host of additional resources on the featured quiz topic - white papers, articles, calculators, brochures and more! You can also download our new handy one page summary of the quiz - the PIQ Quiz Notes.



There's more! Discover the PIQ Quiz Archive...

Explore earlier quizzes from our PIQ Archive, click the "Resources" tab on our website, select "PIQ Quiz" and click "PIQ Archives." Explore earlier topics such as:

- Arc Flash hazard protection
- Overvoltage protection
- Solar power circuit protection
- Selective coordination



Mersen makes it easy to learn more because we understand that your customers don't just trust you; they rely on you. So trust Mersen to give you the products and the knowledge to be a real protection pro!

Read what our PIQ fans have to say...

The PIQ Quiz participants are engineers, electricians, design and specifying engineers, plant managers, distributors, consultants, and students. Like you, they are dedicated to electrical protection. They like the quizzes -and we bet you'll like them too. Here's what they've had to say:

- The quiz was very user friendly. The demonstrations made them more memorable.
- Great, informative graphics. My first thought on the first question was 'surge,' but picked 'sag' instead. The explanation that followed was very good.
- This is a simple and good test to check and update our knowledge about protection systems.
- The test was good information for anyone, but especially people in sales.
- I enjoyed listening to the explanations as to how things come about. The test is an interesting and self-challenging device, useful to keep a person up-to-date, and knowledgeable of Arc Flash and it's causes.
- Excellent. I'm the OSHA trained rep in our area. Very good basic safety slides.
- I hope you continue providing tests like these. They are an excellent source of knowledge in this relatively new field (solar power).
- Although the info did not pertain to our application, I always enjoy the information presented in the PIQ.
- It's the second PIQ quiz that I've taken, and I have found it to be most informative. Thanks for sharing this valuable information with us.
- The PIQ was a great surprise in my email. I enjoyed the challenge of the topic and questions.
- It was great to win a prize and learn some very useful information in the process. The quiz was very user friendly. The demonstrations made them more memorable.

Find out how much you know. Visit:

ep-us.mersen.com/PIQ

R-Tools[®] 3D Heatsink Modeling

Powerful Thermal Modeling Software

Mersen makes it easy and convenient to quickly and accurately model various heatsink configurations using the R-Tools online thermal modeling software program. R-Tools is completely interactive. It uses analytically based design tools allowing you to perform the thermal design of the heatsink concurrent with the optimization of the electrical and manufacturing elements prior to any prototype builds and testing. This invaluable resource reduces your design time and increases the reliability in your finished product.

The benefits of R-Tools

- Convenient online thermal modeling tool
- Online and accessible 24/7
- Quickly and accurately model heatsinks
- 3-D numerical model

But don't take our word for it, explore R-Tools today and experience the benefits.

On the Web:

ep-us.mersen.com

Click "Resources" and "R-Tools"



Need More Support?

Mersen is a company that is easy to do business with. Our leading engineers will work with you to develop tailored solutions for removing damaging heat from your electronic systems. Our ongoing commitment to critical research in thermal management, means you'll benefit from new products and processes that meet the operating requirements of high heat flux power semiconductor modules. Using a combination of in-house modeling techniques and third-party labs for design verification, Mersen is committed to being your number one resource for cooling solutions.

Email:

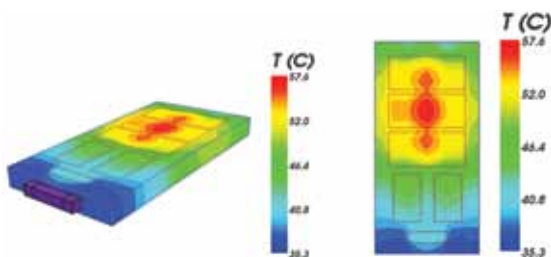
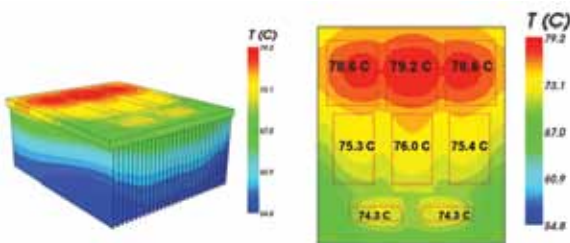
sales.mis@mersen.com

Manufacturing:

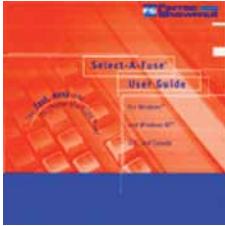
905-795-0077

Applications Support:

905-795-0077 x258 or x340



Select-A-Fuse® Software



The industry's first point-and-click, Windows®-based fuse selection software, Select-A-Fuse is fast, easy and accurate. With Select-A-Fuse, you can quickly and accurately choose the right overcurrent protection for low- and medium-voltage motors, power and control transformers, and general loads.

With Version 4.1, you can do even more. Because in addition to product specs, melting time and peak let-thru curves, and the ability to check fuse coordination, our enhanced Select-A-Fuse software package features:

- An Arc Flash calculator you can use to calculate incident heat energies for Mersen's Amp-Trap 2000® current-limiting fuses
- Data and selection routines for our low- and medium-voltage capacitor fuses, High-Speed J fuses and FSPDB finger-safe power distribution blocks
- A cross-reference list with more than 18,000 entries

Select-A-Fuse will save you time and effort, and best of all, it's free. Visit the web address below to get your copy today.

Version 4.1 Select-A-Fuse System requirements:

- Pentium® PC with Windows 95, 98, NT, ME, XP or 2000 operating system
- 16MB minimum RAM
- 2MB free hard disk space

Access Select-A-Fuse online:

ep-us.mersen.com/saf

Power Electronics Solutions

You can count on Mersen as a single-source supplier of electrical and thermal protection products for Power Electronics. By combining our extensive product line with the knowledge of our application experts, we have the unique ability to evaluate your needs and deliver the right solution.



A global manufacturing company with a century of experience, Mersen has remained strong and viable by consistently focusing on our day-to-day mission — ensuring the integrity of the equipment our devices protect and the safety of the people working around them.

Our zealous commitment to critical research in electrical safety has enabled us to turn industry knowledge into products and services customers can rely on. We consistently go the extra mile by helping our customers increase their effectiveness, simplify applications and enhance productivity.

For unbeatable technical support teams, design assistance in the earliest stages of an application through to final development, and a customer and sales service team that is easy to do business with, turn to Mersen.

Product Overview:

- Semiconductor fuses & fuse holders
- High speed fuses & fuse holders
- Control fuses & fuse holders
- Air and liquid cooled heatsinks
- Disconnect switches
- Surge protective devices
- Power distribution blocks
- High power switches
- Medium voltage fuses

Serving Companies that Manufacture:

- Drives
- Induction heating
- Inverters
- Motor controllers
- Rectifiers
- UPS
- Welding equipment

The Benefits of Mersen:

- Product breadth
- Technical knowledge
- Design assistance from day one
- Global manufacturing
- Innovative, problem solving products like Fabin® heatsinks, TPMOV® Technology, and the industry's first finger-safe UltraSafe™ fuse holders
- Easy to do business with!

Additional Resources

Download Select-A-Fuse® for Power Electronics, Ver. 4.2 - With Select-A-Fuse PE, it's easy to pick the right fuse for power electronics applications. There's no need to sift through product data or perform tedious calculations. Just enter load current and other variables and in seconds, this software responds with viable solutions. Download at: ep-us.mersen.com/resources/download.cfm?f=2

Find your local sales representative:

Click "Where to Buy" at ep-us.mersen.com

Call: 978-462-6662

Email: info.nby@mersen.com

Solar Power Solutions



Circuit Protection Solutions for solar power generation and distribution systems.

Drawing on a century of experience - and an ongoing commitment to critical research in electrical safety in both traditional and emerging markets - we provide solar power designers, engineering specifiers, solar power installers and solar power equipment manufacturers with innovative circuit protection products and unbeatable technical support.

Generating electricity from solar energy is an extremely reliable process – as long as it's properly protected! Mersen offers a trusted range of circuit protection solutions that will help protect your solar power investment. Any installation, whether it's a stand-alone solar array with a back-up generator set or a grid-connected system, is vulnerable to fault currents or lightning.

Today, fuses and surge protective devices are the most effective ways of protecting the wiring and electrical equipment in a Photovoltaic (PV) system. Fuses protect the cables between strings of modules from overcurrent damage. The faulty circuits are isolated allowing the system to continue generating power. But that protection must be designed, dimensioned, tested and adapted to the specific features of solar applications.

At Mersen, we offer a dedicated range of protection components specially designed for solar power generation and distribution including, fuses, fuse holders, wire management solutions, disconnect switches, and surge protective devices. For solar power circuit protection solutions you can rely on, contact Mersen.

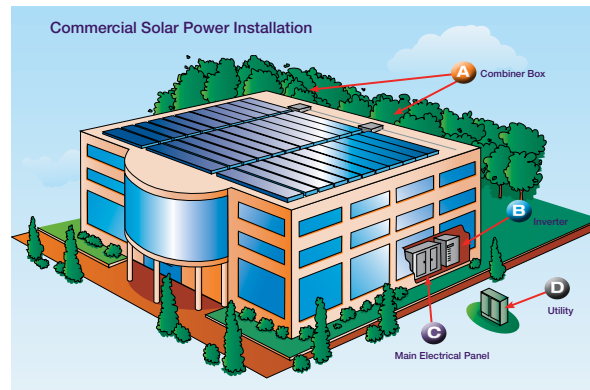
Need More Information?

Here's how to learn more about Mersen solar power circuit protection products:

Call: 978-462-6662

Email: info.nby@mersen.com

Web: ep-us.mersen.com



Circuit Protection Components for Solar Power



Combiner Box

- 600VDC fuse solutions
- 1000VDC fuse solutions
- UltraSafe™ class CC & midget fuse holders
- Finger-Safe Power Distribution Block
- Surge-Trap® surge protective devices
- DC-rated disconnect switches



Inverter

- 700VDC semiconductor fuses
- 1000VDC semiconductor fuses
- Square body semiconductor fuses
- Surge-Trap® surge protective devices
- Modular fuse holders
- AC/DC-rated disconnect switches



Main Electrical Panel

- 600VAC class J fuses
- 600VAC class CC fuses
- UltraSafe™ class J fuse holders
- AC-rated fused Disconnect Switches
- Surge-Trap® surge protective devices



Utility

- Medium voltage E-Rated fuses
- Cable limiters

Download Mersen's solar power solutions brochure at:

ep-us.mersen.com

Click Resources > Literature.

Wind Power Circuit Protection

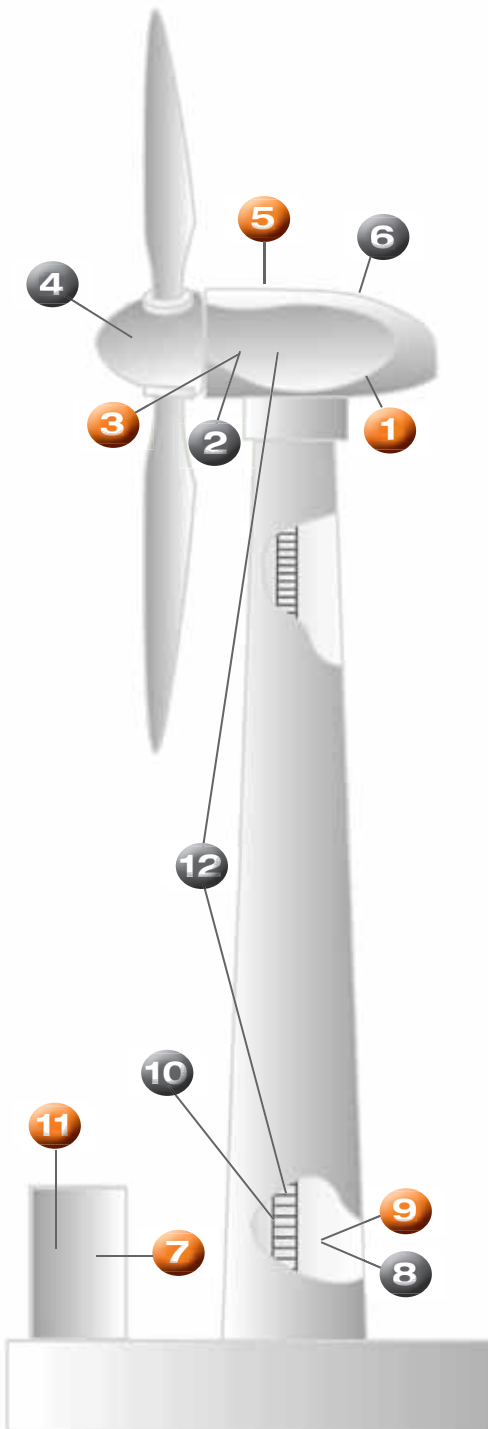
Mersen brings its knowledge, innovation and technical expertise to the wind power industry, with a complete line of problem-solving products.

A wide range of circuit protection solutions are available for the Nacelle, Utility and Tower Base, including Finger-safe Power Distribution Blocks (FSPDB) Time-delay Class J Fuses (AJT), E-Rated Medium Voltage Current-limiting Power Fuses and more.

Download Mersen's wind power solutions brochure at ep-us.mersen.com > Resources > Literature.

To learn more about how Mersen products can protect people and equipment:

Call: 978-462-6662
Email: info.nby@mersen.com
Web: ep-us.mersen.com



| Turbine Component | | Mersen Electrical Protection | | | |
|--------------------------------|------------------------------------|------------------------------|-------------------------|---------------------|---------------------|
| | | Fuses | Holders | Surge Protection | Other |
| Nacelle | 1 Control Cabinet | AJT | UltraSafe™ | Surge-Trap® SPD | FSPDB |
| | | Class CC | Disconnect Switch | | |
| | 2 Rotor | Medium Voltage | Associated Holders | Surge-Trap® SPD | |
| | | NH - G | | | |
| | | Class L | | | |
| | 3 Stator | Medium Voltage | Associated Holders | Surge-Trap® SPD | |
| NH - G | | | | | |
| Class L | | | | | |
| 4 HUB | AJT | UltraSafe™ | Surge-Trap® SPD | | |
| | Class CC | | | | |
| 5 Obstruction Lighting | AJT | UltraSafe™ | Surge-Trap® SPD | | |
| | Class CC | | | | |
| 6 Anemometer | Class CC | UltraSafe™ | Surge-Trap® SPD | | |
| | Midget | | | | |
| Base | 7 Heading | NH | NH Holders or NH Switch | Surge-Trap® SPD | |
| | | Class L | | | |
| | 8 Control Cabinet (230V) | AJT | UltraSafe™ | Surge-Trap® SPD | FSPDB |
| | | Class CC | Disconnect Switch | | |
| | 9 Control Cabinet (24V/ 48V) | Midget | UltraSafe™ | | |
| | 10 Inverter for Rotor Power Supply | PSC | NH Holder | Surge-Trap® SPD | Cable Protector |
| | | Form101 | | | |
| NH - g | | | | | |
| 11 Transformer & Utility Lines | Medium Voltage | | | High Voltage Switch | |
| Both | 12 Inverter & Generators | Medium Voltage | Disconnect Switch | | High Voltage Switch |
| | | | | | Heatsinks |

Technical Services Support

Circuit Protection Technical Services Support

Mersen's technical service support is one of the best in the industry and gives you direct access to expert applications engineers and an extensive range of technical resources. Count on us for answers to your most challenging applications questions and for rapid issue resolution, cross reference support, and technical support for products such as fuses, fuse blocks and holders, surge protective devices, power distribution blocks, and disconnect switches. Please contact us at:

Email: technicalservices.nby@mersen.com

Phone: 978-465-4853



Unable to locate the product you need?

Email technicalservices.nby@mersen.com and tell us about your application. In a jiffy, we'll find the circuit protection product that fits your needs.

Thermal Management Application Engineering Support

The experts on our applications support team are your trusted advisors. Turn to us for design assistance, problem resolution, and technical support for our air or liquid cooled heatsinks, extrusions, heat pipes and cooling systems.

R-Tools 3D Thermal Modeling Heatsink Tool

R-Tools provides the thermal design engineer with 24/7 access to materials, configurations and operating conditions for a wide variety of Mersen-based thermal solutions. If you need assistance in the use of R-Tools or the design of a heatsink that cannot be created on R-Tools, please contact us at:

Email: support.mis@mersen.com

Phone: 905-795-0077 x340 or x258

U.S.A.: (800) 388-5428

