Power Quality, Efficiency & Reliability

Thomas&Betts

A Global Leader in Innovative...

Wire & Cable Management • Cable Protection Systems • Power Connection & Control • Safety Technology

In today's world, critical electrical equipment must be reliable and operational — 24 hours a day, seven days a week.

Thomas & Betts Solution Sets

- *Power Quality, Efficiency & Reliability*
- *Corrosion & Harsh Environment Protection*
- *Grounding & Bonding*
- *Safety & Contamination*
- *Continuous Operation & Sustainability*
- *Hazardous Location Protection*
- *SKU Reduction*
- *Total Project Cost Reduction*
- *Liquid Ingress Protection*
- *Extreme Temperature Protection*
- *Services & Training*

Protect Your Most Critical Equipment

From a data center's clean environment to the harshest processing plant environment, maintaining a dependable, stable source of electrical power is essential. But as we all know, power disruptions occur across industries and for a variety of reasons.

Power quality problems may originate with the power supply coming into your facility or they may develop from internal equipment problems. Disruptions generally include harmonic pollution, reactive power and/or load imbalance. Any one of these challenges can cause significant financial and operational consequences to your organization. Correcting these problems can significantly improve the reliability, process and efficiency of your critical equipment — ensuring it is available all the time.

The potential costs of poor power quality are vast — from equipment failure and damage to your most sensitive equipment, to electronic communication interference and increased system interruption. Needless to say, any degradation in power quality can lead to monetary loss and a considerable reduction in the overall lifespan of your electrical equipment. The loss of a single data record, for example, can mean the permanent loss of a process batch — or the loss of millions of dollars every minute.

By using the right technology, however, it is possible to ensure that your power quality is more consistent, efficient and reliable.

Power Quality: Be Your Own First Line of Defense

In today's technology-driven environment, the need to understand power quality and how it influences a business and its bottom line is critical. In addition to providing products that are specified worldwide in industrial, construction and utility markets, Thomas & Betts Power Solutions' portfolio offers a wide range of power quality services, including extensive instruction, troubleshooting and guidance for you and your employees to be a first line of defense against power quality interruptions.

From monitoring and control capabilities to overcurrent protection, to transfer switches and UPS systems, Thomas & Betts provides power quality solutions to protect and maintain the functionality of all your most critical electrical systems. Our solutions provide the peace of mind that comes from knowing your equipment is safe and secure from the consequences of unpredictable power.

Thomas & Betts Services include:

UPS Services: Providing multi-vendor Uninterruptible Power Supply (UPS) services for the critical power protection industry — specializing in start-up, preventative maintenance and emergency response.

DC Plant Services: Committed to providing reliability through an array of services designed to meet the ever-changing needs of our customers.

Static Switch/PDU/RPP Services: Focused on the needs of the mission-critical environment, such as large data centers in the financial sector — these products lead the industry in quality, technology and functionality.

Professional Services: Expertise developed by building and testing our products through years of field experience. We continuously work with our design engineers to deliver innovative solutions for your toughest power quality and reliability challenges.

Thomas & Betts Power Solutions is dedicated to providing mission-critical, power quality products and services manufactured and marketed under the following leading brands — Cyberex®, Current Technology®, Joslyn®, United Power® and JT Packard®.

Delivering value through system solutions based on engineering innovation.

Our Value Commitment

Thomas & Betts is committed to helping you meet the challenges of corrosion prevention with electrical solutions, services and systems that deliver value. These include:

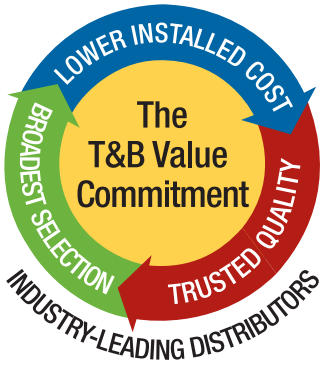
T&B Engineered solutions — Our products are designed to perform dependably under conditions such as constant moisture, harsh chemicals, extreme temperatures, high-pressure washdown, ultraviolet exposure, hazardous areas, high-vibration equipment and continuous operation.

Tested reliability — Our products are rigorously tested for use in harsh environments, with proven results in thousands of installations.

Expert support — Thomas & Betts trained sales representatives and technical services experts are available at every stage of a project, from planning and site preparation through construction and MRO.

Training and certification — Thomas & Betts conducts training programs on specific products and systems and works closely with accredited electrical industry associations. Contact us for details.

Product availability — Our industry-leading distributor network assures you of reliable and on-time delivery. This global electrical product support system ensures that our solutions are available when and where you need them.



Product Platforms

For over a century, Thomas & Betts has provided customers with electrical system solutions to help protect their people and assets, while meeting applicable codes, lowering installed costs and providing overall value.

Wire and Cable Management — Thomas & Betts invented the Ty-Rap® Cable Ties in 1958 and continues to lead the industry in innovative wire and cable management solutions. For harsh and corrosive environments, we offer Ty-Rap® Cable Ties in coated and uncoated stainless steel as well as polypropylene and fluoropolymer materials.

Cable Protection Systems — Electrical systems exist in harsh and corrosive environments, extreme temperatures and hazardous locations. Thomas & Betts has engineered, tested and certified raceway solutions for all types of wires, cables and cords, offering long life and safe, reliable, maintenance-free performance, regardless of environmental conditions.

Power Connection and Control — Advanced electronic and electrical systems require signals and controls to be extremely accurate, consistent and reliable. Our power connection and control system solutions make this expectation a reality for your low-, medium- and high-voltage electrical system needs.

Safety Technology — Thomas & Betts is a worldwide leader in lightning and surge protection, hazardous location lighting, emergency lighting and supporting central battery systems. We use state-of-the-art technologies to design our electrical system solutions so they meet global safety and reliability standards.

Thomas & Betts products for power quality, efficiency & reliability

Cyberex®
- CyberWave UPS

Elastimold®
- Switchgear and Cable Accessories

Fisher Pierce®
- Faulted Circuit Indicators

Furse™
- Grounding and Lightning Protection Systems

Hi-Tech®
- Current-Limiting Fuses

Homac®
- Substation Connectors
- Smart Crab™ Multi-Limiter Crab Connector

Joslyn®
- Surge Protection Devices

Joslyn Hi-Voltage®
- Switches and Reclosers

Thomas & Betts' wide range of power quality services is your answer to installing, troubleshooting and maintaining reliable power quality systems.

Power Quality, Efficiency & Reliability

Thomas & Betts provides Power Quality solutions to protect and maintain the functionality of your electrical systems.

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Switchgear and Cable Accessories

- Underground cable accessories rated for 5 to 35kV including elbows, joints and terminations
- Underground arresters
- Solid-dielectric no-maintenance switchgear for application in vault, riser pole and padmount installations from 5 to 35kV

Hi-Tech

Current-Limiting Fuses

- Current-limiting fuses for overhead and underground transformers
- Current-limiting fuses for capacitor banks

JOSLYN

Surge Protection Devices

- More than 1300 standard configurations of AC surge protection
- Products for facility-wide installation, prewired units for equipment-level protection and custom-configured solutions

CYBEREX

CyberWave UPS

- Industrial UPS systems
- Digital static transfer switches
- Power distribution systems
- Circuit management systems

Power Quality, Efficiency & Reliability

FISHER PIERCE®

Faulted Circuit Indicators

- Faulted circuit indicators
- Voltage and current sensors
- Overhead and underground units available

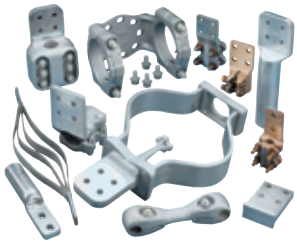
furse

Grounding and Lightning Protection Systems

- Furse™ Grounding and Lightning Protection Systems are designed based on British and IEC standards

HOMAC®

Substation Connectors

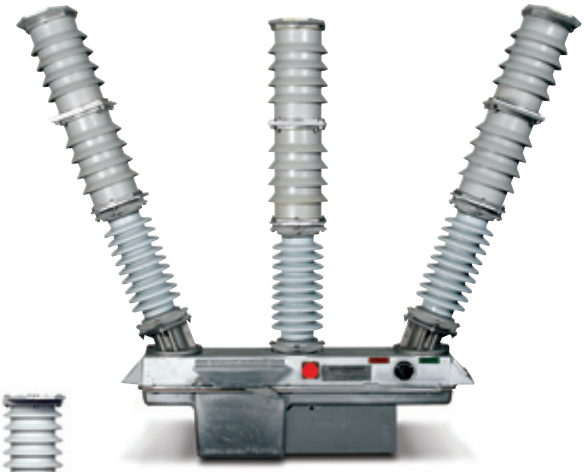


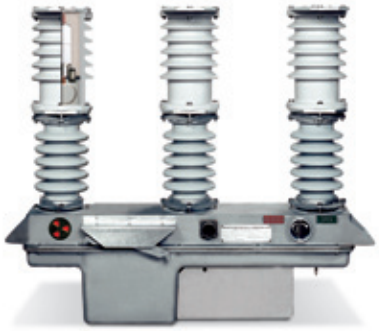
- Designed to provide superior performance under extreme operating conditions

JOSLYN

Switches and Reclosers

- Capacitor switches for distribution lines and substations
- Reclosers
- Air disconnect switches
- Interruptor accessories for air disconnect switches





HOMAC®

Smart Crab™ Multi-Limiter Crab Connector

- Immediately identifies blown self-contained limiters to minimize service outages
- Protects underground cables from faults or overloads
- Capable of communicating with SCADA systems for remote monitoring
- Provides integrated electronic indication of limiter status for rapid fault location

Visit the T&B world of electrical product solutions

Visit our web site for more information about Thomas & Betts solutions and our newest products. For a user-friendly catalog and competitive part number search, application and technical support and other useful information, go to:
www.tnb.com

Industry codes and specifications

All Thomas & Betts products meet or exceed applicable industry specifications or codes which are detailed in the appropriate T&B product literature.

Online CAD library

Thomas & Betts offers free download of two- and three-dimensional CAD models of many of its products in more than 90 native CAD formats at: **www.tnb.com/cadlibrary**

American Recovery and Reinvestment Act (ARRA)

Get certification letters for compliant products online at:

www.tnb.com/ARRA

Thomas & Betts Corporation
8155 T&B Boulevard
Memphis, TN 38125
901.252.8000

www.tnb.com

United States

Thomas & Betts Corporation
Electrical Division Headquarters
8155 T&B Boulevard
Memphis, TN 38125
Phone: 901.252.8000
Fax: 901.252.1354
Technical Services:
888.862.3289
Customer Service:
1.800.816.7809
Email: elec_custserv@tnb.com

Canada

Thomas & Betts Ltd
700 Avenue Thomas
St.-Jean-sur-Richelieu
Quebec J2X 2M9
Phone: 450.347.5318
Fax: 450.347.1976

Latin America

Mexico: 01-800-TNB-HELP
Central America & Caribbean:
+52.81.8329.7707
South America:
+52.81.8329.7643
Email: servicioaleliente@tnb.com

Europe/Africa

T&B European Centre
200 Chaussée de Waterloo
B-1640 Rhode-St-Genèse
Belgium
Phone: +32.235.98200
Email: europe_inquiry@tnb.com

Middle East

Thomas & Betts Ltd
PO Box 54567
Office 107 5EA East Wing
Dubai Airport Free Zone
Dubai
United Arab Emirates
Phone: +9714.609.1635
Fax: +9714.609.1636
Email: me_ex_enquiry@tnb.com

Asia Pacific

Thomas & Betts Asia Pte Ltd
10 Ang Mo Kio Street 65
#06-07 Techpoint
Singapore 569059
Phone: +65.6720.8828
Fax: +65.6720.8780
Email: asia_inquiry@tnb.com

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