ARE YOU FUTURE READY?

Masterpact MTZ circuit breakers

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Power distribution is changing.

Smart cities. Smart grids. Smart buildings. Smart industries. The world is becoming more connected, electric, digitized, decarbonized, and decentralized. Power distribution is facing new regulations, becoming more seamless and connected, but also becoming more dispersed and vulnerable.

For this Internet of Things era, you need a future-ready circuit breaker that increases efficiency and can adapt to your evolving needs for safety, reliability and sustainability.

At Schneider Electric, we’ve been setting the standard in air circuit breakers since 1987. We did it first with the Masterpact™ M, and then with the groundbreaking Masterpact NT/NW circuit breakers. Each Masterpact innovation has incorporated the most advanced features and has established a legendary reputation for power uptime and protection against overloads, short circuits, and insulation faults — even in the toughest environments.

Now, Schneider Electric is redefining electrical distribution with the new EcoStruxure™ Power portfolio of digitized products that enhance connectivity, real-time operation, and smart analytics.

And the latest Masterpact innovation? Read on to discover the future of power distribution.

Buildings, industry, and energy

- 40% Amount of available energy consumed by buildings worldwide
- 50% Number of smart, connected devices by 2020
- +50% Level of increase in global industry energy demand by 2050
- 100% Expected uptime for buildings worldwide

1 UN Report: World Urbanization Prospects, 2014
2 UN Report: Global Industrial Energy Efficiency Benchmarking, 2010
As power distribution changes, customer’s expectations grow, increasing the demand for solutions that enhance safety, offer greater cybersecurity, and are more reliable, efficient, and sustainable.

Building investors want
- Short project lead times
- Flexible and scalable investments
- Valuable energy labels and ratings
- Compliance to building codes and regulations

Building tenants want
- Full power availability
- Energy expense optimization
- Tight control of maintenance costs
- Occupant comfort and productivity

Facility managers want
- To provide high-quality service
- To keep electrical systems efficient
- To stay connected and act remotely
- To maximize uptime
With Masterpact MTZ breakers, enhanced connectivity equips you for the future of power distribution.

Available from 800 A to 6000 A.
Stay connected — Avoid surprises and downtime with the Masterpact MTZ mobile app.

Wireless connection locally

- Connect locally via wireless, Bluetooth® and NFC connection
- Review status via smartphone: Protection settings, self-diagnosis, load levels and alarms
- Review energy consumption, power quality, phase balance, and health status
- Review locally on the Micrologic X display, on your smartphone, or on an installed display monitor
- Receive predictive maintenance information with easy-to-interpret data

Comprehensive crisis management

- In case of a trip, restore power quickly and outside of the arc flash zone using your smartphone
- Key event data is saved on trip and accessed via NFC connection, even without power
- Root cause explanation and step-by-step instructions for breaker reclosing and power recovery, with digital modules:
  - Waveform Capture on Trip Event
  - Power Restoration Assistant
  - Masterpact Operation Assistant

Remote notifications anywhere

- Review status anywhere via Facility Expert digital and collaborative maintenance logbook. Logging periodic inspections and response to alarms
- Supervise remotely with EcoStruxure Facility Advisor, Power Monitoring Expert (PME), Power SCADA Operation (PSO), Building Operation (BO)
- Get real-time alerts and self-diagnosis: Event type, severity level, and time stamp
Access new energy-saving capabilities —
A built-in Class 1 power meter gives you precise power measurements for greater efficiency.

- First air circuit breaker with built-in, third-party certified Class 1 active power meter (IEC 61557-12)
- Instant and comprehensive views of your building’s power consumption
- View energy usage analysis, trends, and energy costs allocation
- Compliant with international regulations: ISO 50001 and IEC 60364-8
- Embeds demand-side metering in the circuit breaker. For advanced power quality monitoring, contact your Schneider Electric Power Solutions representative

Class 1 accuracy for active power and energy management.
Customize Micrologic X control unit anytime — Digital modules make it easy to upgrade and tailor your system.

- The 3 main categories of digital module functions are protection, metering and diagnostics & maintenance
- Enhanced energy management, power quality management, and crisis management
- Update digital modules at any stage of the product’s life cycle: during configuration, commissioning, or operation

- For the latest digital modules visit the Schneider Electric GoDigital web store
- Upload modules without interrupting power, using Ecoreach software and a USB cable

Optional digital modules to customize Micrologic 24/7.

### Protection Modules
- ANSI 27/59 - Under/Over voltage
- ANSI 32P - Reverse active power
- ANSI 51N/51G - Ground fault alarm
- ERMS - Energy Reduction Maintenance Settings

### Measurement Modules
- Cost Management
  - Energy per Phase
- Power Quality
  - Individual harmonics analysis

### Diagnostic Modules
- Power Outage and Maintenance
  - Power restoration assistant
  - Masterpact operation assistant
  - Wave form capture on trip event
- Communication
  - Modbus legacy dataset

Control units available in 3.0 X, 5.0 X or 6.0 X
Streamline configuration and commissioning.

Retrofit simply
- Updating from Masterpact NT/NW breakers is easy
- Masterpact MTZ circuit breakers have the same power connection, breaking capacity and footprint
- For full retrofit support contact your Schneider Electric representative

Configure conveniently
- Configure your Masterpact MTZ breaker for specific application needs
- Leverage options and accessories to fit your specific power and monitoring architectures

Commission easily
- Get your Masterpact MTZ breaker up and running in no time
- With Ecoreach software, commissioning and maintenance of your circuit breaker is simple and intuitive

Installation and updates are seamless, quick, and easy.
EcoStruxure Power’s open and interoperable system architecture allows for remote monitoring and control using any supervision system.

- Embedded Ethernet connection (EIFE module) with drawout cradle status management and embedded web pages
- Breaker data displays locally at the equipment and remotely on supervision systems
- Fully customizable Micrologic X control units for all types of protection

EcoStruxure Power monitoring software

- Facility Expert
- Facility Advisor
- Power Monitoring Expert
- Power SCADA Operation
- Building Operation

Ecoreach software

- Simplify commissioning and maintenance
- Set-up and test smart components within equipment
- Install digital modules in Masterpact MTZ circuit breakers
- Reduce commissioning time
- Speed up acceptance testing and reporting
- Improve preventive maintenance, checking protection settings, alarms, trip history, and maintenance reports

Simplify your equipment design — Masterpact MTZ circuit breakers are adaptable to different systems.
EcoStruxure Power Equipment Integration

Masterpact MTZ integration with EcoStruxure Power architecture generates valuable data, enabling:

- Square D brand electrical distribution equipment to communicate and respond to asset management tools and software
- Connection to EcoStruxure Power software unlocks your electrical system’s potential
- Remote monitoring and control with any supervision system to carry out predictive and preventive maintenance
- Remote notification and maintenance planning with Facility Expert digital maintenance logbook
- Proactive facility management with EcoStruxure Facility Advisor, Power Monitoring Expert, Power SCADA Operation, and Building Operation software
- Asset life-cycle management and condition-based maintenance via equipment monitoring
- Asset and alarm management
- Energy efficiency and power quality management
- Compliance with regulations for energy-efficient buildings
Keep your electrical system online in the harshest environments — Masterpact MTZ circuit breakers give you proven reliability by going beyond standards.

Built to endure:

- Voltage fluctuations
- Electromagnetic disturbances
- Vibrations and mechanical shocks
- Corrosive and chemical atmospheres
- Severe temperatures
Achieve higher sustainable business performance — with Masterpact MTZ circuit breakers you can enhance your sustainability goals.

We’re helping our specifiers, builders, installers, architects and building owners create superior sustainable and efficient properties by reducing CO₂ emissions, utility and operating costs as well as improving the well-being of property occupants in both new construction and renovation projects.

Achieve LEED™ credits with MTZ:
- Building Product Disclosure and Optimization
- Advanced Energy Metering

With the addition of digital modules, the circuit breaker can be upgraded and modernized at any time after installation without disrupting electrical service.

Better durability with improved mechanical and electrical performance along with remote monitoring to help facilitate predictive maintenance.

The embedded class 1 metering allows active power and energy to be monitored, helping facility managers reduce their CO₂ emissions and energy costs when connected to any building and energy management system.

Masterpact MTZ is fully RoHS and REACH compliant.
Innovation at every level

Masterpact MTZ circuit breakers offer innovative features that streamline system design, construction, and operation

I design

Win more projects

Digital modules give you the ability to add functions based on one standard Micrologic X control unit, helping to reduce your initial investment in a project and making Masterpact MTZ circuit breakers scalable to future needs.

Design durable and compliant systems

Masterpact MTZ circuit breakers are compliant with electrical distribution and energy efficiency standards and regulations. Plus, they are tested and proven to withstand harsh conditions.

Create smart, flexible systems

Masterpact MTZ circuit breakers integrate seamlessly with Schneider Electric Smart Systems. The optional embedded Ethernet connection along with the Class 1 power meter help to increase energy efficiency for any building or power management system.
I operate

Improve commissioning and reporting
Masterpact MTZ circuit breakers allow you to provide commissioning and maintenance reports to demonstrate reliability and value to your customers or employer.

Make maintenance easier
Masterpact MTZ circuit breakers send alerts to your smartphone, helping you to diagnose problems quickly and avoid downtime. In case of power interruptions, the Power Restoration Assistant digital module guides you to the root cause and helps you restore power quickly.

Increase safety
Because Masterpact MTZ circuit breakers can be operated remotely via Bluetooth, operations can occur outside of the arc flash zone. Plus, NFC allows access to stored breaker data even when the power is off.

I build

Install and retrofit easily
The transition from Masterpact NT/NW to Masterpact MTZ air circuit breakers merges installation ready design with future ready evolutions in smart connectivity, remote monitoring and easy customization.

Commission quickly
With Ecoreach software, you can integrate smart devices, commission connected equipment, and generate comprehensive reports as part of factory and site acceptance tests.

Provide better service
Our partner programs offer tools, software and support to help you grow your business and meet your customers’ needs with high-quality pre- and post-sale services.
Offer more services and get experienced support

With smart connectivity, Masterpact MTZ circuit breakers offer better service opportunities and insights. And our Field Services team is always ready with experienced support when you need it.

Digital Services
As a panel builder, contractor, or facility manager, Masterpact MTZ gives you new ways to serve your customers or company.
Data analysis and reporting assists you with network management and cost management. Remote monitoring helps to increase operational efficiency and uptime. Plus, when combined with the EcoStruxure Power architecture, Masterpact MTZ air circuit breakers can generate remote data collection, enabling:
• Maintenance planning with Facility Expert
• Facility management with Facility Advisor
• Permanent equipment monitoring
• Asset and alarm management
• Energy efficiency and power quality management

Field Services
We’re here to help with new projects, retrofitting, maintenance, spare parts kits, and training. Manage your Masterpact MTZ circuit breaker throughout its entire lifecycle with Schneider Electric Field Services.
Our professional engineers and qualified field services representatives are committed to providing you with innovative solutions, advanced customer service, and technical support.

Get peace of mind
Masterpact MTZ associated services are available when purchasing your circuit breaker, such as assistance in commissioning and start-up, warranty extension, and an e-learning program.
The Masterpact MTZ range covers your protection needs.

- **MTZ3**: 42kA to 200kA ANSI
- **MTZ2**: 65kA to 150kA UL
- **MTZ1**: 50kA to 100kA UL (1600 is available in fixed only)

Icu (kA rms) at 480V AC

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With Masterpact MTZ circuit breakers, you’re ready for all the ways power distribution is changing. Smart connectivity gives you real-time data to help avoid downtime. Digital modules allow you to customize the circuit breaker to your specific needs. And proven durability gives you the confidence that you’re placing your power distribution on a solid foundation.

Masterpact MTZ circuit breakers are available in three sizes for ANSI, UL and IEC applications:

**MTZ1**
From 800 to 1600 A

**MTZ2**
From 800 to 4000 A

**MTZ3**
From 4000 to 6000 A

Features digital modules to customize Micrologic X control units

3.0 X  |  5.0 X  |  6.0 X

Downloadable digital modules provide enhanced:
- Protection
- Measurement
- Diagnostics and maintenance
Learn more about the future of power distribution.

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