EcoStruxure™ Innovation At Every Level **Power**

ARE YOU FUTURE READY?

Masterpact MTZ circuit breakers

schneider-electric.us/mtz

Life Is On

SQUARE D™ by Schneider Electric

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[1]

+50%

LEVEL OF INCREASE IN GLOBAL INDUSTRY ENERGY DEMAND BY 2050[2]

50 BILLION

NUMBER OF SMART, CONNECTED DEVICES BY 2020[3]

100%

EXPECTED UPTIME FOR BUILDINGS WORLDWIDE

1 UN Report: World Urbanization Prospects, 2014
2 UN Report: Global Industrial Energy Efficiency Benchmarking, 2010
3 Cisco White Paper: The Internet of Things: How the Next Evolution of the Internet Is Changing Everything, 2011

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

NOW, YOU'RE READY...

Built on the legendary performance and reliability of the Masterpact line.

Masterpact MTZ circuit breakers prepare you for the future of power distribution. Smart connectivity. Remote monitoring. Easy customization via digital modules. Masterpact MTZ circuit breakers bring the future-ready EcoStruxure Power capabilities you need to build smart, dependable, and sustainable power distribution systems:

- Smartphone connectivity for wireless alerts and maintenance
- Precision Class 1 power meter built in for energy-saving capabilities
- Easy customization via digital modules
- Intuitive Micrologic™ X control unit
- Robust performance, even in harsh environments
- Seamless integration with building and energy management systems via EcoStruxure Power architecture
- Designed and tested to applicable standards for ANSI, UL and IEC

With Masterpact MTZ breakers, enhanced connectivity equips you for the future of power distribution.

Available from 800 A to 6000 A.

...CONNECTIVITY READY

Stay connected — Avoid surprises and downtime with the Masterpact MTZ mobile app.

Wireless connection locally

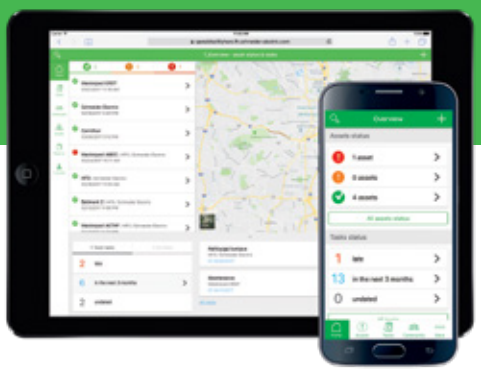
- Connect locally via wireless, Bluetooth® and NFC connection
- Review status via smartphone: Protection settings, self-diagnosis, load levels and alarms
- Review energy consumption, power quality, phase balance, and health status
- Review locally on the Micrologic X display, on your smartphone, or on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

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
- Receive predictive maintenance information with easy-to-interpret data

Comprehensive crisis management

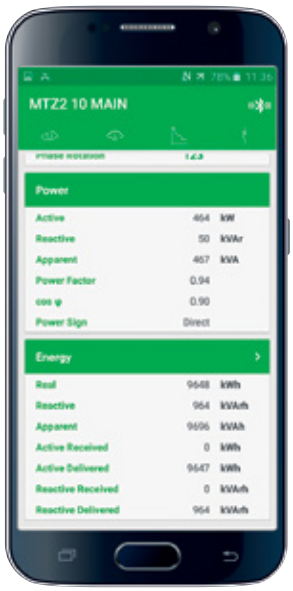
- In case of a trip, restore power quickly and outside of the arc flash zone using your smartphone
- Key event data is saved on trip and accessed via NFC connection, even without power
- Root cause explanation and step-by-step instructions for breaker reclosing and power recovery, with digital modules: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



...PRECISION READY

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

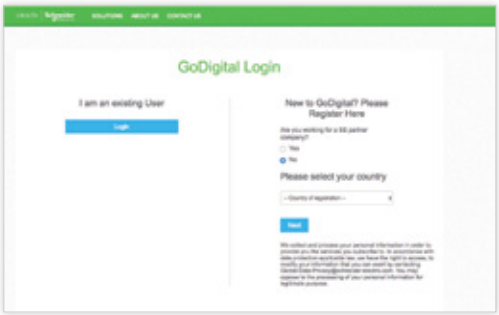


Class 1 accuracy for active power and energy management.

...UPGRADE READY

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



Go Digital

Ecoreach
Easy setting, factory acceptance test, upgrade

3.0 X (LI) | 5.0 X (LSI) | 6.0 X (LSIG)

Control units available in 3.0 X, 5.0 X or 6.0 X

Protection Modules

Customize Protection

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

Optional digital modules to customize Micrologic 24/7.

...INSTALLATION READY

Streamline configuration and commissioning.

Retrofit simply

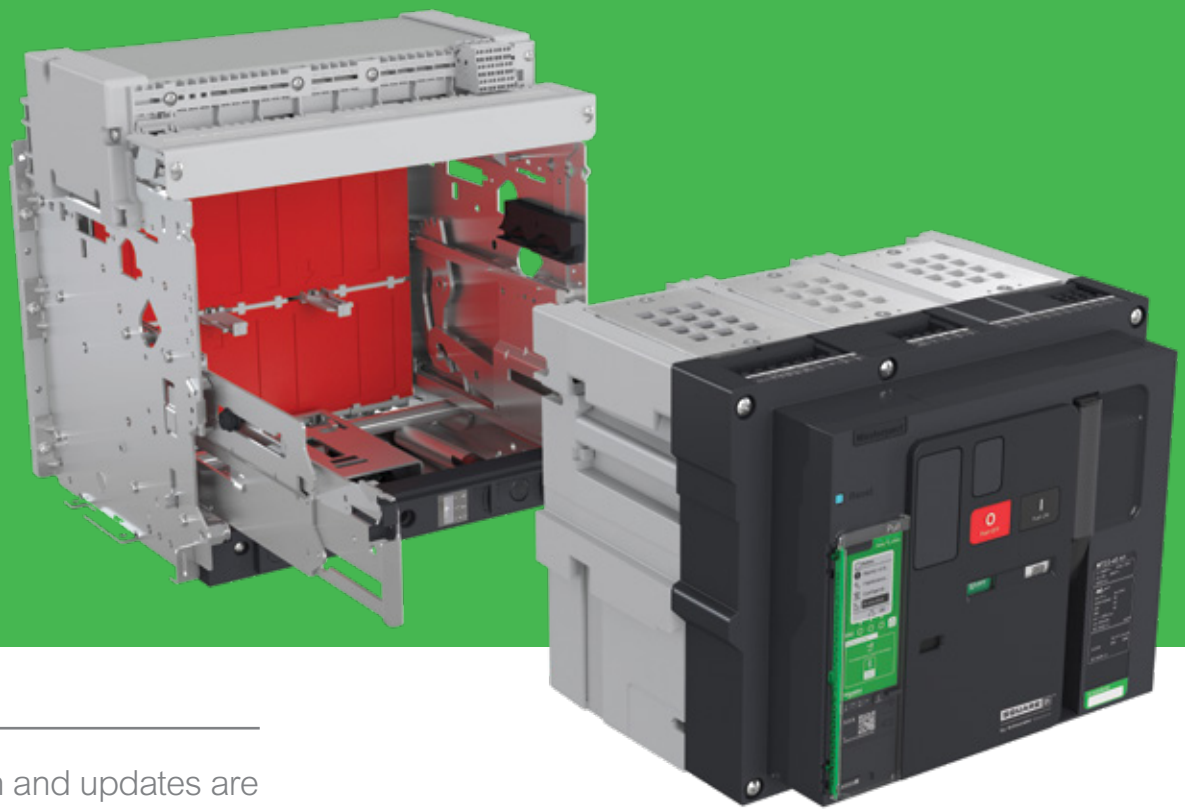
- Updating from Masterpact NT/ NW breakers is easy
- Masterpact MTZ circuit breakers have the same power connection, breaking capacity and footprint
- For full retrofit support contact your Schneider Electric representative

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.

...INTEGRATION READY

Simplify your equipment design — Masterpact MTZ circuit breakers are adaptable to different systems.

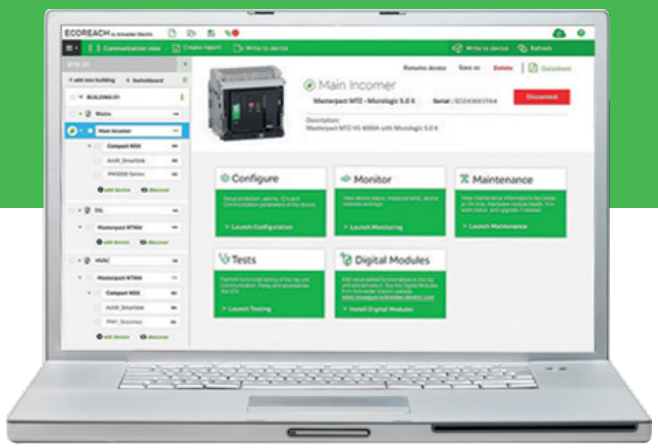
- EcoStruxure Power's open and interoperable system architecture allows for remote monitoring and control using any supervision system
- Embedded Ethernet connection (EIFE module) with drawout cradle status management and embedded web pages
- Breaker data displays locally at the equipment and remotely 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

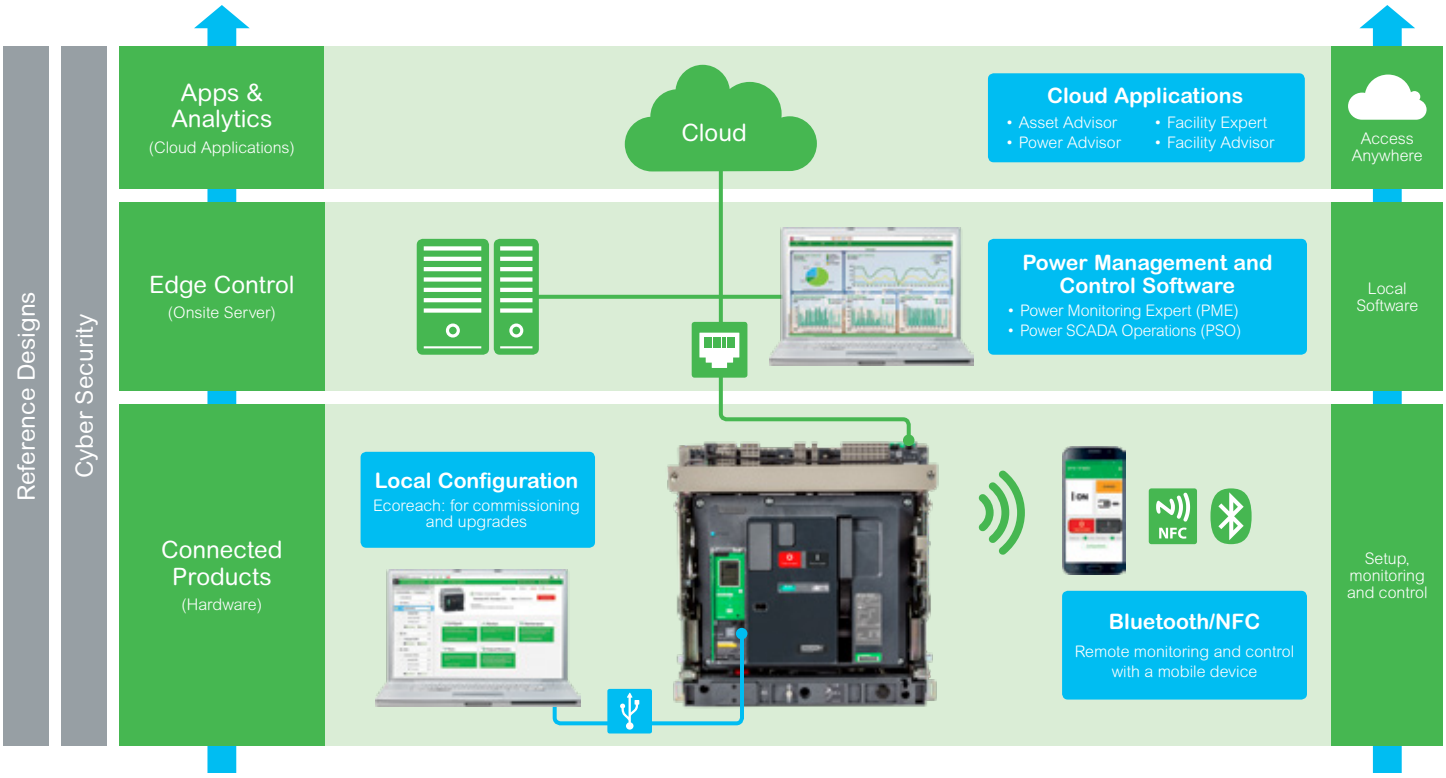


...EQUIPMENT READY

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



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Please select your type of connection to device
BLUETOOTH
Connect
NFC
Connect
USB
Connect
Demo Mode

...ENVIRONMENT READY

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

...SUSTAINABILITY READY

Achieve higher sustainable business performance — with Masterpact MTZ circuit breakers you can enhance your sustainability goals.

Green Premium™

Experience the difference today at schneider-electric.com/green-premium

We're helping our specifiers, builders, installers, architects and building owners create superior sustainable and efficient properties by reducing CO_2 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

Well-being performance | Resource performance | Circular performance

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 CO_2 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 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

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.

Masterpact
Reset
R
Pull
MICROLOGIC

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

Get peace of mind

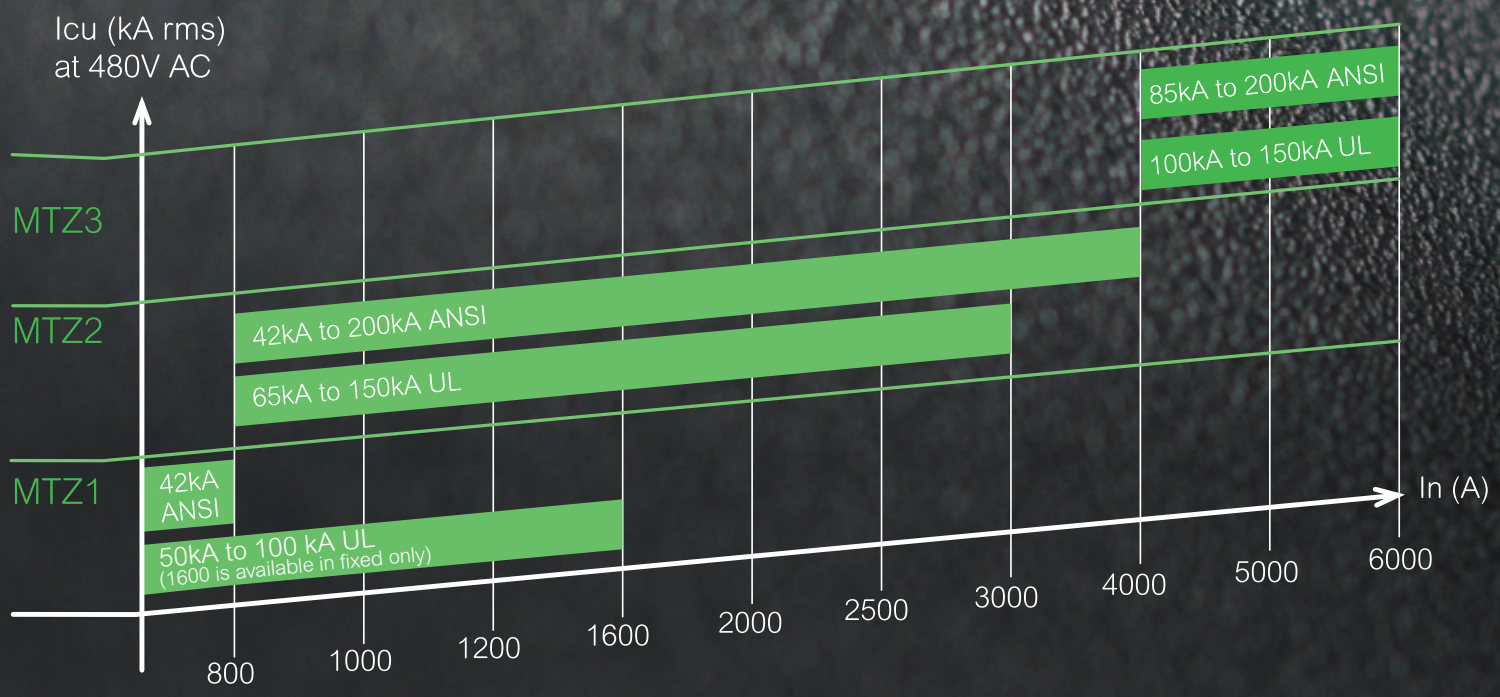
Masterpact MTZ associated services are available when purchasing your circuit breaker, such as assistance in commissioning and start-up, warranty extension, and an e-learning program.

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 life cycle 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.

The Masterpact MTZ range covers your protection needs.



...FUTURE READY

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

3.0 X (LI) 5.0 X (LSI) 6.0 X (LSIG)

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SQUARE D™ by Schneider Electric

Learn more about the future of power distribution.

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August, 2018

Document Number 1000BR1801

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