EcoStruxure™
Innovation At Every Level

FUTURE

Prepare for the future of power distribution with MasterPact MTZ circuit breakers.

MasterPact™ MTZ
FUTURE READY

#WhatsYourBoldIdea

schneider-electric.com/masterpact-mtz

Life Is On | Schneider Electric

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Bringing IoT innovation to power distribution

For the Internet of Things era, EcoStruxure™ Power is the trusted and secure platform for developing safe, highly available, energy-efficient electrical distribution systems. And MasterPact™ MTZ air circuit breakers have EcoStruxure innovation built in. Scalability, durability, and connectivity come together to create a seamless, flexible, and future-ready circuit breaker that actively helps you save time, increase efficiency, and improve energy consumption.

Since 1987, MasterPact circuit breakers have established a legendary reputation. And now, MasterPact MTZ circuit breakers build upon that legacy with **the innovation you need today to build the smart, secure, and sustainable power distribution systems of tomorrow.**

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 U.N. Report: World Urbanization Prospects, 2014
2 U.N. 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

Help to improve safety, offer greater cybersecurity, and make your power distribution system more reliable, efficient, and sustainable.

Building investors want

- Short but reliable 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 restore power quickly in case of an outage

Now, you're ready …

Built on the legendary performance and reliability of the Master**Pact** line.

MasterPact MTZ circuit breakers prepare you for the future of power distribution with smart connectivity, remote monitoring, and easy customization via digital modules.

- Intuitive EcoStruxure Power Device app for easy operation and maintenance
- Precise Class 1 power meter built in for energy-saving capabilities
- Easy customization with digital modules
- Intuitive MicroLogic™ X control unit
- Easy installation using established architectures
- Seamless integration with building and energy management systems
- Designed and tested to applicable standards for ANSI, UL, and IEC
- Low migration cost from MasterPact NT / NW to MasterPact MTZ

With Master**Pact** MTZ breakers, enhanced performance and connectivity equip you for the future of power distribution.

Available from 630 A to 6300 A.

Connectivity ready

Stay connected and avoid downtime. The EcoStruxure Power Device app and EcoStruxure software conveniently bring energy data, circuit breaker control, and more directly to your smartphone.

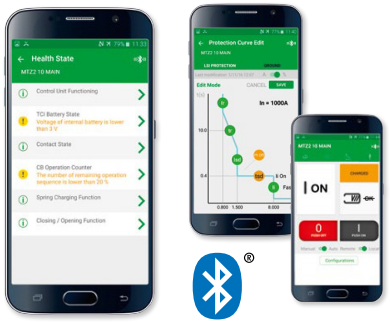
One unified smartphone app

- Within the palm of your hand you can be connected to your:
    - MasterPact MTZ air circuit breakers
    - TeSys GV4 monitor circuit breakers
    - Easergy P3 protection relays
    - ...and more.
- With Ecostruxure Power Device app you have access to your devices' information and can perform control operations right from your smartphone.

Secure wireless notifications locally

- Perform control operations with your smartphone
- Monitor electrical data: currents and voltages, energy consumption, power quality, phase balance and harmonics
- Restore power quickly and easily using guidance from digital modules; Power Restoration Assistant and MasterPact Operation Assistant

Connectivity ready



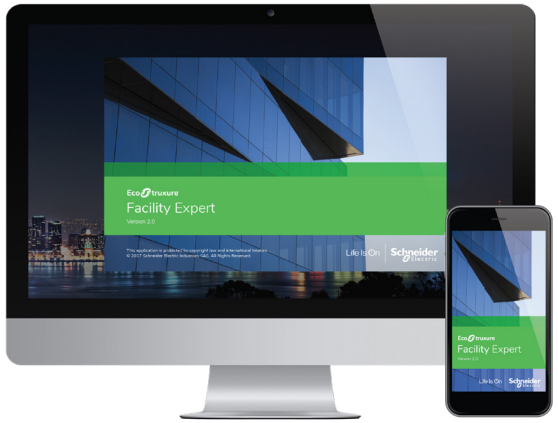
The EcoStruxure Power Device app is free at the App Store for iOS® smartphones and Google Play™ store for Android smartphones.

Download on the App Store

GET IT ON Google Play

Notifications and collaboration remotely

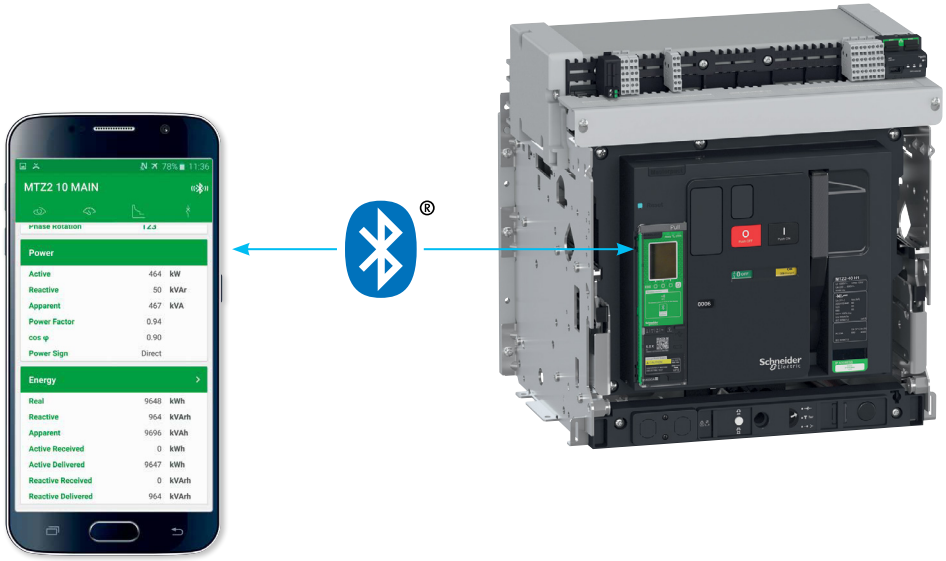
- Receive maintenance reminders and real-time alerts wherever you are: periodic inspection and alarms
- Access saved details of events: data and documents, self-diagnosis, event type, severity level, time stamp
- Supervise remotely and collaborate in real-time with your coworkers using EcoStruxure Power software and services:
    - EcoStruxure Facility Expert
    - EcoStruxure Facility Advisor
    - EcoStruxure Power Monitoring Expert
    - EcoStruxure Power SCADA Operation
    - EcoStruxure Building Operation
- Share circuit breaker data remotely with experts and management systems



Precision ready

Access new energy-saving capabilities — a certified 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.
- An easy, time-saving way to add energy measurement to your system.
- Instant access to power consumption data — no need to wait for software or run analytics.
- View energy usage analysis, trends, and energy costs allocation.
- Compliant with international energy-efficiency regulations: ISO 50001 and IEC 60364-8.

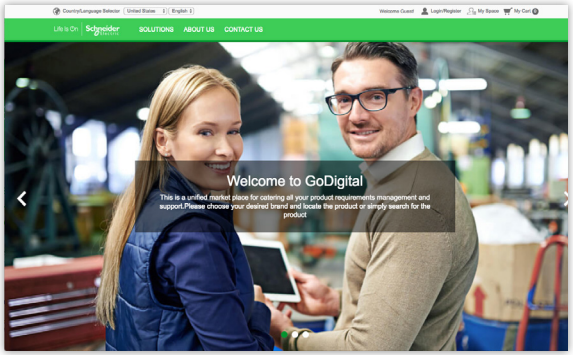


Class 1 accuracy for active power and energy management.

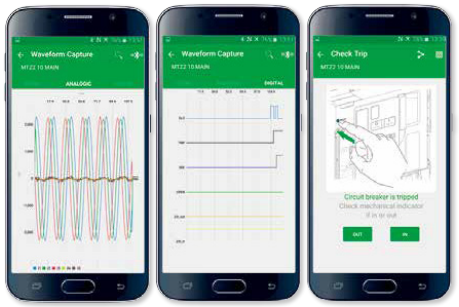
Upgrade ready

Customize your MicroLogic X control unit anytime.

- Upload additional digital modules for advanced functions:
  - System protection
  - Measurement
  - Diagnostics and maintenance
- Enhance energy management, power quality management, and power outage management
- Update at any stage of the life cycle: during configuration, commissioning, or operation
- Digital modules available 24/7 on Schneider Electric GoDigital Store
- Upload modules without interrupting power using EcoStruxure Power Commission software and a USB cable



MicroLogic X control unit



Optional digital modules to modify MicroLogic X anytime.

Upgrade ready

Digital modules make it easy to upgrade and tailor your system.

Protection

- Energy Reduction Maintenance Settings (ERMS)
- Ground fault alarm
- Under / Over voltage protection
- Reverse active power

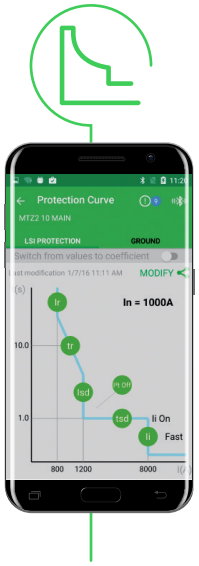
Measurement

- Energy per phase
- Individual harmonics analysis

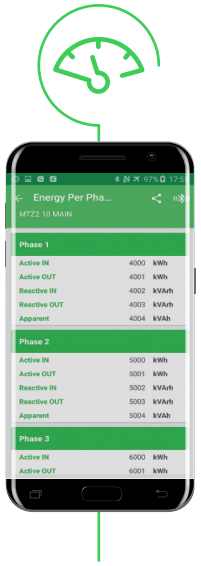
Diagnostics and maintenance

- Power restoration assistant
- MasterPact operation assistant
- Wave form capture on trip event
- Modbus legacy dataset

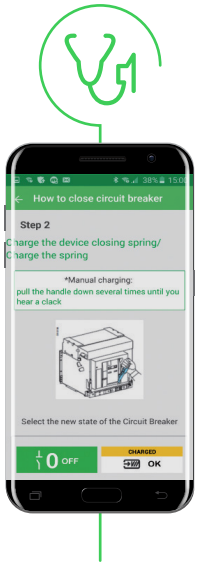
®



Protection



Measurement



Maintenance and diagnostics

Installation ready

Streamline configuration and commissioning.

Retrofit seamlessly

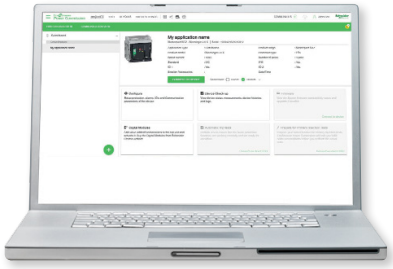
- Updating from MasterPact NT / NW breakers is easy and cost-efficient.
- MasterPact MTZ circuit breakers have the same electrical performance, breaking capacity, thermal properties, power connection in the same frame size.
- No recertification is required.

Configure quickly

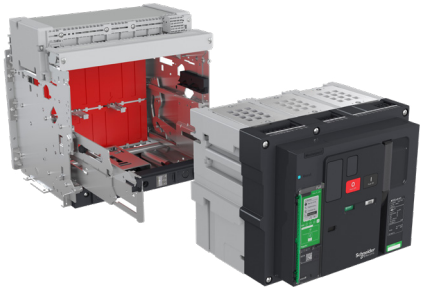
- Designing your MasterPact MTZ breaker to fit your needs is simple.
- Product Selector makes configuration and ordering quick and convenient.

Commission easily

- EcoStruxure Power Commission software reduces commissioning time and simplifies maintenance:
  - Set up and test switchboards equipped with smart devices.
  - Install digital modules.
  - Speed up FAT and SAT delivery.
  - Improve preventive maintenance with alerts and easy access to data.



Installation and updates are seamless, quick, and easy.



Integration ready

Simplify your switchboard operation — Master**Pact** MTZ circuit breakers are adaptable to different systems because of their digital capabilities.

- Integrate seamlessly with EcoStruxure Power architectures
- Monitor and control remotely using any supervision system
- Embedded Ethernet connection (EIFE module) with drawout cradle (chassis) status management and embedded web pages
- Breaker data displays locally on switchboard and remotely on EcoStruxure Power supervision systems
- Fully customizable MicroLogic X control units for all types of protection

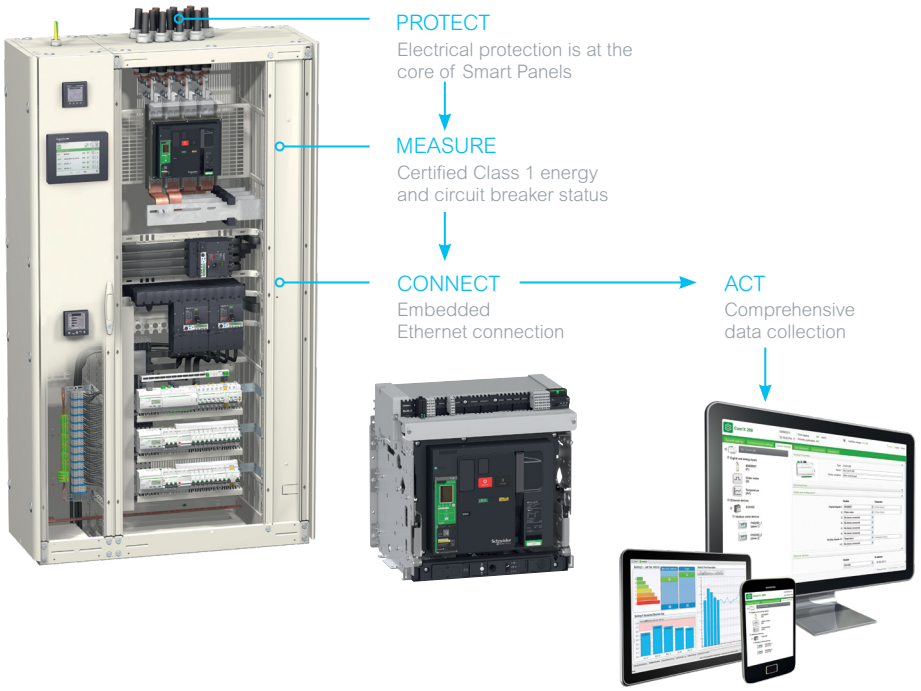
EcoStruxure Power software and services

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

EcoStruxure ready

MasterPact MTZ circuit breakers' integration with EcoStruxure Power architecture generates valuable data, enabling:

- Connection to EcoStruxure Power software to unlock your electrical system's potential
- Remote monitoring and control with any supervision system to carry out predictive and preventive maintenance
- Proactive facility management with EcoStruxure Facility Advisor, EcoStruxure Power Monitoring Expert, EcoStruxure Power SCADA Operation, and EcoStruxure 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 latest regulations for energy-efficient buildings



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Environment ready

Keep your electrical system online even in harsh environments — Master**Pact** 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

Contribute to a better world — with Master**Pact** MTZ circuit breakers you can enhance sustainability.

- Total control over environmental impact of equipment
- Compliant with all European and international regulations and Green Premium ecoLabel™

RoHS

Our products are subject to RoHS requirements worldwide. This initiative aims to eliminate hazardous substances.

REACH

We apply the strict REACH regulation on our products worldwide.

PEP: Product environmental profile

In compliance with the ISO 14025 PEP ecopassport® program, we publish complete environmental data on all of our products.

End-of-life instructions

Available at the click of a button, these instructions provide:

- Recyclability rates for Schneider Electric products
- Guidance to mitigate personnel injuries during the dismantling of products
- Parts identification for recycling or for selective treatment to mitigate environmental hazards / incompatibility with standard recycling processes

Green Premium™

Our Green Premium ecoLabel discloses valuable information related to the environmental impact of its products.

A new digital user experience

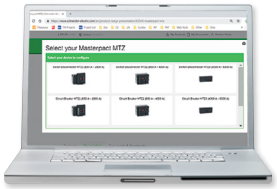
With the Master**Pact** MTZ circuit breaker, every stage of the project — from designing and configuring to operating and maintaining — is streamlined using its digital capabilities.

DESIGN

EcoStruxure Power Design software
Single-line diagram design software that calculates and sizes your electrical installation.

EcoStruxure Power Build software
Quick configuration and quotation tool for switchboards.

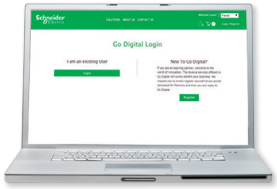
CONFIGURE AND ORDER



Product Selector
Configure your MasterPact MTZ to save time and ensure accuracy.

MySE
Order your MasterPact MTZ online.
myseus.schneider-electric.com

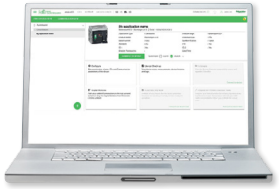
CUSTOMIZE OR UPGRADE



GoDigital Store
Purchase additional digital modules for even more visibility and efficiency over the MasterPact MTZ circuit breaker life cycle.
godigital.schneider-electric.com

Advanced functions
- Protection
- Measurement
- Diagnostics and maintenance

BUILD AND COMMISSION



EcoStruxure Power Commission software
Commission and upgrade easily with protection setting and factory-acceptance test.

OPERATE AND MAINTAIN

EcoStruxure Power monitoring software:
- EcoStruxure Power Monitoring Expert
- EcoStruxure Power SCADA Operation
- EcoStruxure Building Operation
- EcoStruxure Facility Advisor

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Monitor with EcoStruxure Power software
Obtain data visualization and reporting for increased efficiency.

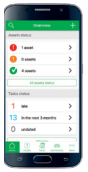
Operate with your smartphone
Locally in the facility room

NFC

EcoStruxure Power Device app

Operate with MicroLogic X control unit
Locally in the facility room
Status "at a glance"

Remote insights & notifications



Track facility data and receive alerts in case of power events and scheduled maintenance with the EcoStruxure Facility Expert app.

schneider-electric.com/ecostruxure-facility-expert

Android iOS

Innovation At Every Level

I design

Whether you're a panel builder, OEM, contractor, or facility manager, MasterPact MTZ circuit breakers offer the innovative features you need to streamline system design, construction, and operation.

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 EcoStruxure Power architectures. The embedded Ethernet connection and a Class 1 power meter help to increase energy efficiency by providing comprehensive data on any building or power management system.

Innovation At Every Level

I build

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

Install and retrofit easily

The transition from MasterPact NT/NW circuit breakers to MasterPact MTZ air circuit breakers merges installation ready design with future ready evolutions in smart connectivity, remote monitoring, and easy customization. No switchboard modification or IEC 61439-1 and -2 recertification are required.

Commission quickly

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

Provide better service

Our partner programs offer tools, software, support, and loyalty awards to help you grow your business and meet your customers' needs with high-quality pre- and post-sale services.

Innovation At Every Level

I operate

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

Improve customer loyalty

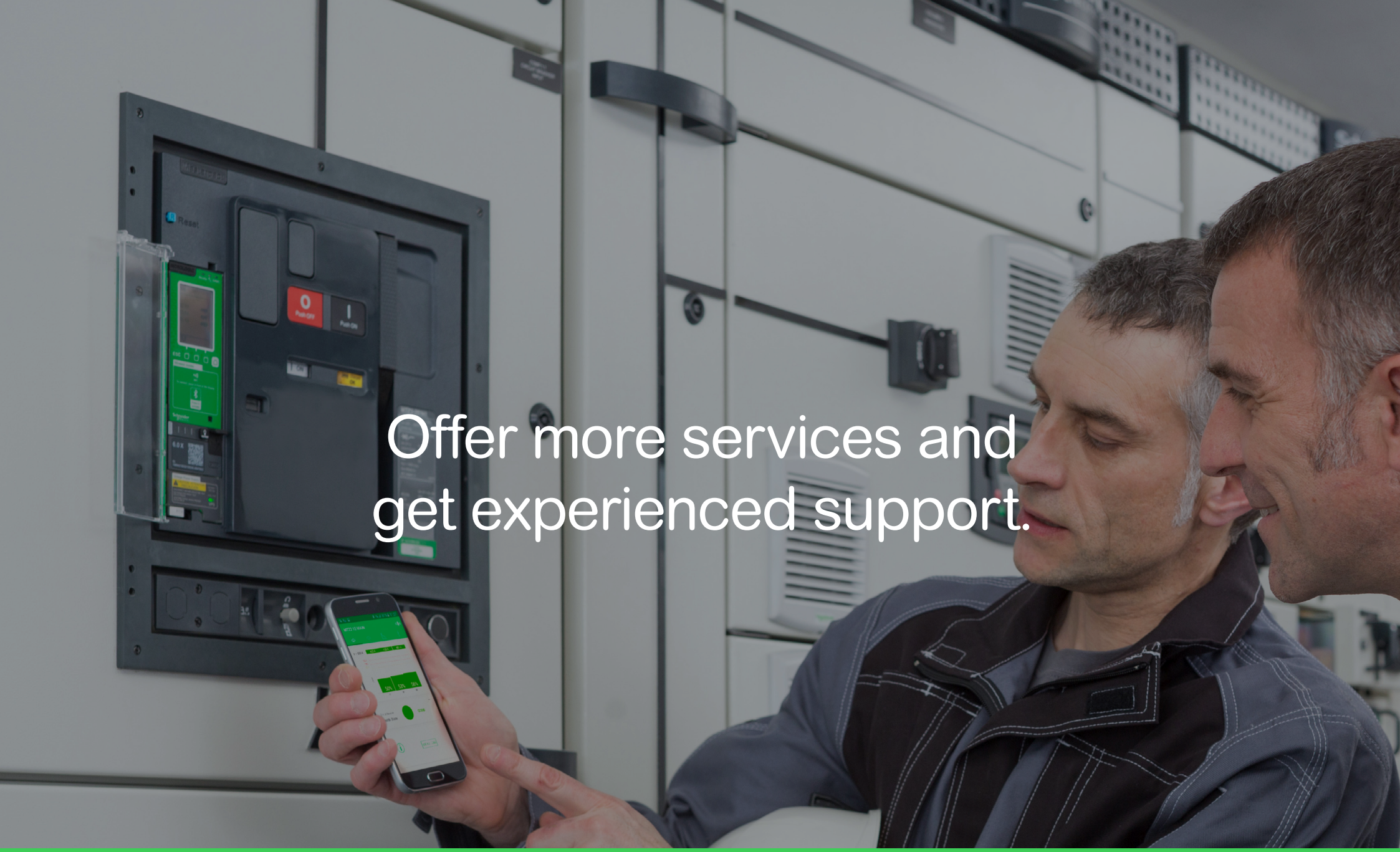
MasterPact MTZ circuit breakers allow you to provide commissioning and maintenance reports to demonstrate your reliability and value to your customers or employer.

Make maintenance easier

MasterPact MTZ circuit breakers send alerts to your smartphone, helping you to diagnose problems quickly and avoid downtime. In case of a power outage, 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 managed 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.



Offer more services and get experienced support.

With smart connectivity, Master**Pact** MTZ circuit breakers give you the ability to offer better service and insights. And our Field Services team is always ready with experienced support when you need it.

Digital Services

Data analysis and reporting assists you with network and cost management. Remote monitoring helps to increase operational efficiency and uptime. Plus,when combined with EcoStruxure Power architectures, MasterPact MTZ air circuit breakers can generate remote data collection, enabling:

- Maintenance planning with EcoStruxure Facility Expert
- Facility management with EcoStruxure 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 trainings. 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.

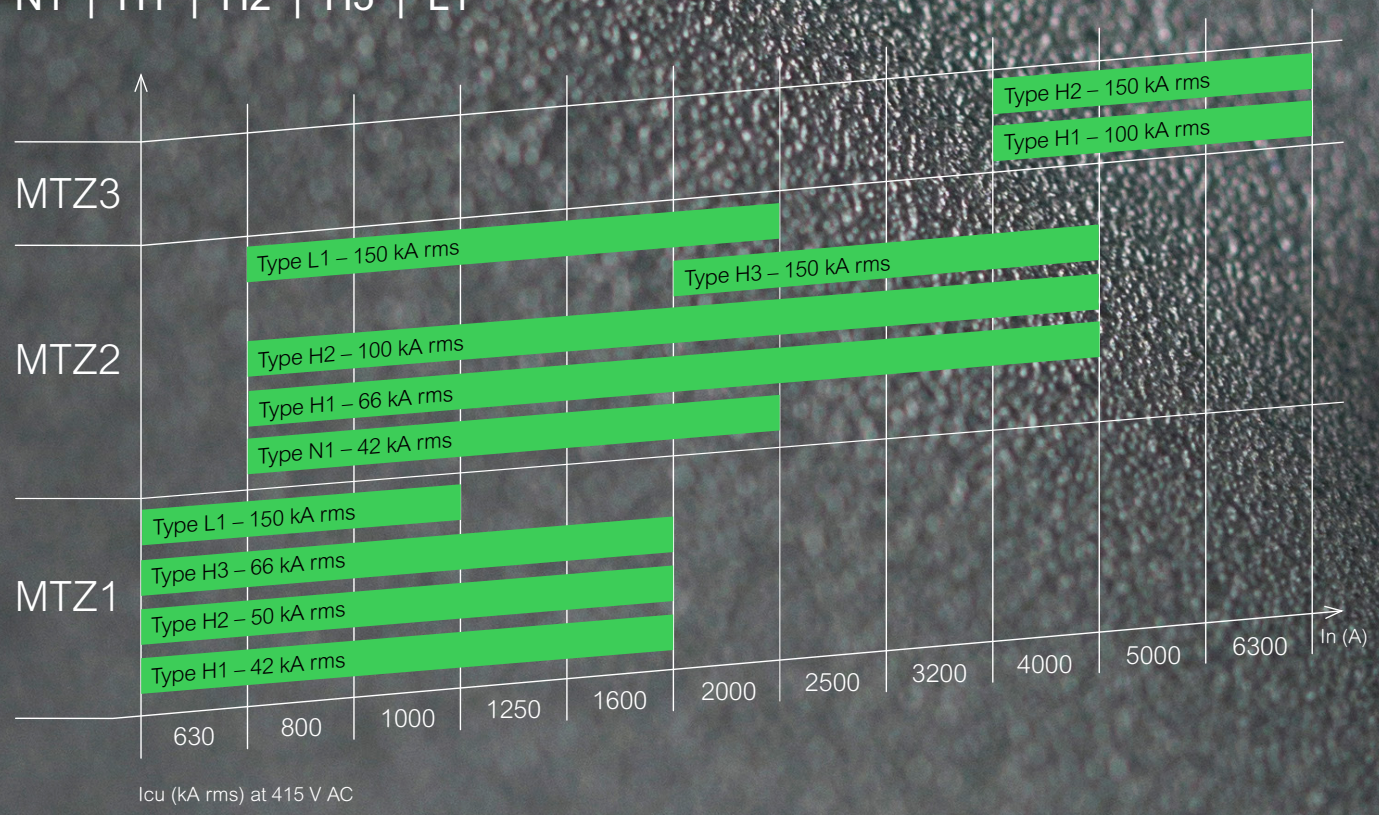
Get peace of mind

MasterPact MTZ associated services are available when purchasing your circuit breaker: assistance to commissioning and start-up, warranty extension, e-learning program.

The Master**Pact** MTZ range covers your protection needs.

Five performance levels

N1 | H1 | H2 | H3 | L1



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 assurance that you're placing your power distribution on a reliable foundation.

MasterPact MTZ circuit breakers in three sizes:

MTZ1
From 630 to 1600 A

MTZ2
From 800 to 4000 A

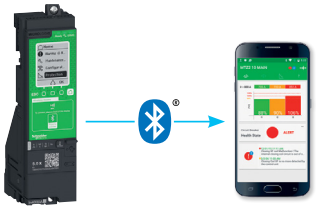
MTZ3
From 4000 to 6300 A

Now featuring digital modules to customize MicroLogic X control units.

2.0 X (LI) | 5.0 X (LSI) | 6.0 X (LSIG) | 7.0 X (LSIV)

Downloadable digital modules provide enhanced:

- **Protection:**
  - Energy Reduction Maintenance Settings (ERMS)
  - Ground fault alarm
  - Under / Over voltage protection
  - Reverse active power
- **Measurement:**
  - Energy per phase
  - Individual harmonics analysis
- **Diagnostics and maintenance:**
  - Power restoration assistant
  - MasterPact operation assistant
  - Wave form capture on trip event
  - Modbus legacy dataset



Learn more

Safety, reliability, efficiency, and sustainability — get connected with EcoStruxure.

There's a lot more to EcoStruxure Power — learn the latest.

Give your electrical system a voice with Smart Panels — learn more today.

Start innovating today — contact us.

This document presents general, non-binding information regarding the potential value that digitized power distribution products and solutions can bring to the user. Due to varying user situations and goals, Schneider Electric does not warranty or guarantee that the same or similar results represented in this document can be achieved. Please refer to Schneider Electric product and solution catalogs for actual specifications and performance.

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