Masterpact NT and NW

Catalogue 2019
LV power circuit breakers and switch-disconnectors

WEB3 cat.2018

schneider-electric.com
Green Premium is the only label that allows you to effectively develop and promote an environmental policy whilst preserving your business efficiency. This ecolabel guarantees compliance with up-to-date environmental regulations, but it does more than this.

Schneider Electric's Green Premium ecolabel is committed to offering transparency, by disclosing extensive and reliable information related to the environmental impact of its products:

**RoHS**
Schneider Electric products are subject to RoHS requirements at a worldwide level, even for the many products that are not required to comply with the terms of the regulation. Compliance certificates are available for products that fulfil the criteria of this European initiative, which aims to eliminate hazardous substances.

**REACh**
Schneider Electric applies the strict REACh regulation on its products at a worldwide level, and discloses extensive information concerning the presence of SVHC (Substances of Very High Concern) in all of these products.

**PEP: Product Environmental Profile**
Schneider Electric publishes complete set of environmental data, including carbon footprint and energy consumption data for each of the lifecycle phases on all of its products, in compliance with the ISO 14025 PEP ecopassport program. PEP is especially useful for monitoring, controlling, saving energy, and/or reducing carbon emissions.

**EoLI: End of Life Instructions**
Available at the click of a button, these instructions provide:
- Recyclability rates for Schneider Electric products.
- Guidance to mitigate personnel hazards during the dismantling of products and before recycling operations.
- Parts identification for recycling or for selective treatment, to mitigate environmental hazards/ incompatibility with standard recycling processes.

Over 75% of Schneider Electric manufactured products have been awarded the Green Premium ecolabel.
Masterpact NT and NW

The standard for power circuit breakers around the world.

Over the years, other major manufacturers have tried to keep up by developing products incorporating Masterpact’s most innovative features, including the breaking principle, modular design and the use of composite materials.

In addition to the traditional features of power circuit breakers (withdrawability, selectivity and low maintenance), Masterpact NT and NW ranges offer built-in communications and metering functions, all in optimised frame sizes.

Masterpact NT and NW incorporate the latest technology to enhance both performance and safety. Easy to install, with user-friendly, intuitive operation and environment-friendly design, Masterpact NT and NW are, quite simply, circuit breakers of their time.
Covering all your applications

Masterpact meets the needs of all types of LV electrical distribution networks.

**Building**
- Hotels
- Hospitals
- Offices
- Retail

**Data Centres and Networks**

**Industry**
- Mining and minerals
- Automotive
- Food and beverage
- Chemical industry

**Energy and Infrastructures**
- Airports
- Oil and gas
- Water
- Electrical energy
- Marine

An answer to specific applications

- 1000 V for mining applications
- Direct current networks
- Corrosion protection
- Switch-disconnectors and earthing switches
- Automatic transfer switching equipment (ATSE) for emergency power systems
- High electrical endurance applications: Masterpact NT H2 is a high performance device offering high breaking capacity (Icu: 50 kA/480 V) and a high level of selectivity, all in a small volume.

Whenever high short circuit is involved

Masterpact UR is a low voltage ultra rapid opening circuit breaker. Its fault detection rate and its reaction speed mean that it will stop a short circuit from developing. As a result, this is the key component in very high power installations equipped with a number of power sources connected in parallel.

Masterpact UR truly comes into its own when short circuit currents can reach very high levels and when continuity of service is a must: offshore installations, cement plants, petrochemical industry. It is also especially suited to electrical installations on board merchant.

All standards

Different Masterpact offers complying with different international standards are available:
- IEC 60947
- UL489 / CSA C22.2 No. 5
- ANSI C37 / UL1066

CCC, EAC and other local certifications are available for the IEC rated products.
Two families and three frame sizes

The range of power circuit breakers includes two families:
>
Masterpact NT, the world’s smallest true power circuit breaker, with ratings from 630 to 1600 A
>
Masterpact NW, in two frame sizes, one from 800 to 4000 A and the other from 4000 to 6300 A.

5 performance levels

>
N1 - for standard applications with low short-circuit levels.
>
H1 - for industrial sites with high short-circuit levels or installations with two parallel-connected transformers.
>
H2 - high-performance for heavy industry where very high short-circuits can occur.
>
H3 - for incoming devices supplying critical applications requiring both high performance and a high level of selectivity.
>
L1 - for high current-limiting capability and a selectivity level (37 kA) as yet unequalled by any other circuit breaker of its type; intended for the protection of cable-type feeders or to raise the performance level of a switchboard when the transformer power rating is increased.
Optimised volumes and ease of installation

Aiming at standardising electrical switchboards at a time when installations are increasingly complex, Masterpact provides an unequalled simplicity, both concerning choice and installation.

The smallest circuit breaker in the world
Masterpact NT innovates by offering all the performance of a power circuit breaker in an extremely small volume. The 70 mm pole pitch means a three-pole drawout circuit breaker can be installed in a switchboard section 400 mm wide and 400 mm deep.

Maximum security
The arc chutes absorb the energy released during breaking, thus limiting the stresses exerted on the installation. They filter and cool the gases produced, reducing effects perceptible from the outside.

Optimised volumes
Up to 4000 A, Masterpact NW circuit breakers are all the same size, the same as the old M08 to 32 range. From 4000 to 6300 A, there is just one size.

Retrofit solutions

> Special connections terminals are available to replace a fixed or a drawout Masterpact M08 to 32 with a Masterpact NW, without modifying the busbars or the door cut-out.

> “Plug and Play” retrofit solution: this solution enables retrofitting of Masterpact M units with considerably reducing on-site intervention time and getting the performance of last generation device.

30 minutes and 2 easy operations
The retrofit solutions use a factory modified and adapted Masterpact NW which is installed in Masterpact M’s original chassis.

More than 60 patents are used to design Masterpact
Standardisation of the switchboard
With optimised sizes, the Masterpact NT and NW ranges simplify the design of switchboards and standardise the installation of devices:
- a single connection layout for Masterpact NT
- three connection layouts for Masterpact NW:
  - one from 800 to 3200 A
  - one for 4000 A
  - one up to 6300 A
- horizontal or vertical rear connections can be modified on-site by turning the connectors 90° or they can even be replaced by front connection terminals
- identical connection terminals for the fixed or draw-out version for each rating (Masterpact NW)
- front connection requires little space because the connectors not increase the depth of the device.

Practical installation solutions
The Masterpact NW range further improves the installation solutions that have built the success of its predecessors:
- incoming connection to top or bottom terminals
- no safety clearance required
- connection:
  - horizontal or vertical rear connection
  - front connection with minimum extra space
  - mixed front and rear connections
  115 mm pole pitch on all versions
- no derating up to 55 °C and 4000 A.

Compliance with environmental requirements
The materials used for Masterpact are not potentially dangerous to the environment and are marked to facilitate sorting for recycling. Production facilities are non-polluting in compliance with the ISO 14001 standard.
Keep your Masterpact NT/NW features year after year by performing requested maintenance

To maintain Masterpact’s operating and safety characteristics from the beginning to the end of its service life, Schneider Electric requests that systematic checks and periodic maintenance be carried out by qualified personnel, as indicated in the “Masterpact Maintenance Guide”.

The Maintenance Guide defines 3 types of maintenance:

> the **corrective maintenance** repairs a system in view of fulfilling a required function

> the **preventive maintenance** consists in carrying out, at predetermined intervals, checks intended to reduce the probability of a failure or deterioration in the operation of a system

> the **predictive maintenance**, based on the recording and analysis of system parameters, is the means to detect drift from the initial state and significant trends. Using predictive maintenance makes possible to anticipate on the corrective action required to ensure equipment safety and continuity of service, and plan the action for the most convenient time.
The Maintenance Guide is available on Internet (www.schneider-electric.com) and provides detailed information on:

- the types of maintenance required, depending on the criticality of the protected circuit

- the risks involved if the component ceases to operate correctly

- what is understood by the terms normal, improved and severe environment and operating conditions

- the periodic preventive maintenance operations that should be carried out under normal environment and operating conditions as well as the level of competence required for the operations

- the environment and operating conditions that accelerate device ageing.
Ethernet-ready Smart Panels

Ethernet-ready Smart Panels enable electrical distribution control and expertise. ‘Protect’ - ‘Measure’ - ‘Connect’ are the 3 pillars of their technology.

1- Protect

Electrical protection is at the core of Smart Panel

Reliable and high-performance technology is present in every breaker and every residual current device.

2- Measure

Keeping a close eye on energy flows

The switchboard plays a key role in capturing building-related data, by gathering the critical protection and metering components.

3- Connect

Give a voice to the panel

Safe Ethernet network data transmission is now part of the intrinsic design of protection and metering devices.

4- Act

Architecture overview
Future savings, peace-of-mind

Access to Smart Panel status, values, is essential for taking advantages of monitoring and management services, locally or remotely.

Act in small/medium buildings
with FDM 128, Com’X 510, Power View, EcoStruxure™ Facility Expert

- Optimizing energy-efficiency
  - Visualize, record energy consumption and WAGES.
  - Comply with regulation.

- Improving continuity of service
  - Get instant notifications
  - Manage with assets-maintenance platform
  - Get and analyze data for quick crisis-recovery

- Increasing maintenance efficiency
  - Operate preventive maintenance tools
  - Follow maintenance & planning
  - Provide business owner instant access to maintenance reports

Electrical device monitoring and control with FDM 128, locally

Com’X 510 web pages direct display, or Cloud based pages from other devices with Power View.

Distance management with EcoStruxure™ Facility Expert on Smartphone, tablet, PC
Architecture overview

**Day-to-day energy management**

**>> Power availability & quality, energy performance**

For simply dealing with building user’s needs and energy constraints. 
EcoStruxure™ Building Management provides electrical management, monitoring and energy accounting.

Energy decisions are often crucial in large critical buildings, they must be informed. 
EcoStruxure™ Power Monitoring Expert (software for PC) collects Smart Panels values to provide expert analysis.

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**Act in large non-critical buildings**

with EcoStruxure™ Energy Expert

- **Managing equipment & key assets**
  - Check operating status, faults on custom on-line diagrams.

- **Monitoring electrical network**
  - Observe voltage disturbances, harmonics on graphics.
  - Read power factor.

- **Accounting energy**
  - Record power meter data on dashboards.
  - Allocate energy consumption with costs.
  - Follow conservation goals.

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**Act in large critical buildings**

with EcoStruxure™ Power Monitoring Expert[^1]

- **Analysing Power Events**
  - Speed up downtime crisis recovery
  - Determine incident root cause, events sequence.
  - Troubleshoot power quality issues.

- **Monitoring Power quality**
  - Be alerted of equipment affected by power quality issue.
  - Compare power quality against industry standards.
  - Collect facts for future discussion with Utility.

- **Analysing Energy Performance**
  - Evaluate building energy saving performance;
  - Identify underperforming loads;
  - Analyze Energy Conservation Measures (ECMs) according ISO50001 program.

ID: demo & Password: demo
A Masterpact fixed circuit breaker is described by 4 catalogue numbers corresponding to:
- the basic circuit breaker
- a control unit
- a top connection
- a bottom connection.
A communication option and various auxiliaries and accessories may also be added.

### Basic circuit breaker

<table>
<thead>
<tr>
<th>Type H1</th>
<th>3P</th>
<th>4P</th>
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<tbody>
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<td>47110</td>
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### Micrologic control unit

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<td>Micrologic 6.0 A</td>
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<td>Micrologic 7.0 A</td>
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### Communication option

- COM (BCM-ULP) | 47405 |
- Eco COM module (BCM-ULP) | 47407 |
- IFE | Ethernet interface for LV breakers | LV434001 |
- Ethernet interface for LV breakers and gateway | LV434002 |
- IFM Modbus-SL interface module | LV434000 |
- I/O application module | LV434063 |

### Brand option

- Square D brand | Label | 47802 |
A Masterpact fixed circuit breaker is described by 4 catalogue numbers corresponding to:
- the basic circuit breaker
- a control unit
- a top connection
- a bottom connection.
A communication option and various auxiliaries and accessories may also be added.

### Basic circuit breaker

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**Type H1**

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**Option**

Neutral on the right

### Micrologic control unit

**“ammeter” A**

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**“energy” E**

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**“power meter” P**

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**“harmonic meter” H**

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### Communication option

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<td>IFE Ethernet interface for LV breaker</td>
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<td>Ethernet interface for LV breakers and gateway</td>
<td>LV434002</td>
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<td>IFM Modbus-SL interface module</td>
<td>LV434000</td>
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<tr>
<td>I/O application module</td>
<td>LV434063</td>
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1. Select a 4P basic circuit breaker with neutral on the right page F-34. All other catalogue numbers are unchanged.
2. Only for breaker up to 3200A.

Auxiliaries and accessories:
- for fixed devices: see page F-20
- for fixed or drawout devices: see page F-28.
- Switch-disconnector version: see page F-30.
- Source changeover assembly: see page F-28.
A Masterpact drawout circuit breaker is described by 5 catalogue numbers corresponding to:
- the basic circuit breaker
- a control unit
- a chassis
- a top connection
- a bottom connection.
A communication option and various auxiliaries and accessories may also be added.

**Basic circuit breaker**

<table>
<thead>
<tr>
<th>Type</th>
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<th>Icu (kA for U = 220/440 V)</th>
<th>Ics = 100 % Icu</th>
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**Option**

Neutral on the right

**Micrologic control unit**

- **“ammeter” A**
  - Micrologic 2.0 A: basic protection
  - Micrologic 5.0 A: selective protection
  - Micrologic 6.0 A: selective + earth-fault protection
  - Micrologic 7.0 A: selective + earth-leakage protection
- **“energy” E**
  - Micrologic 2.0 E: basic protection
  - Micrologic 5.0 E: selective protection
  - Micrologic 6.0 E: selective + earth-fault protection
- **“power meter” P**
  - Micrologic 5.0 P: selective protection
  - Micrologic 6.0 P: selective + earth-fault protection
  - Micrologic 7.0 P: selective + earth-leakage protection
- **“harmonic meter” H**
  - Micrologic 5.0 H: selective protection
  - Micrologic 6.0 H: selective + earth-fault protection
  - Micrologic 7.0 H: selective + earth-leakage protection

**Grounding kit**

Grounding kit for Masterpact NW drawout

(1) Select a 4P basic circuit breaker with neutral on the right page F-34.
(2) Only for breaker up to 3200 A.