Pact Series

MasterPact™ MTZ

Catalog numbers and spare parts 2020
Air circuit breakers and switch-disconnectors
Contribute to a better world — with MasterPact MTZ circuit breakers you can enhance sustainability.

Build superior sustainable and efficient properties by reducing CO₂ emissions, utility and operating costs as well as improving the well-being of property occupants for both new construction and renovation projects.

Achieve Green Building certification with MasterPact MTZ:

In compliance with ISO 14025 PEP Ecopassport program, Schneider Electric publishes a comprehensive Life Cycle Analysis of our product, providing the environmental data you need to achieve Green Building certifications.

For example, MasterPact MTZ contributes to 4 LEED™ points:

- 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.
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Order your MasterPact MTZ through digital tools
Product selector

To simplify and expedite the ordering of MasterPact MTZ, four new tools are introduced:

- **Product selector**: An online software tool embedded in Schneider website or in distributor’s website to help selecting the right product with its accessories.
- **Product Code**: An alphanumeric code representing the selection of a MasterPact MTZ circuit breaker. It simplifies the way to communicate the selection of a MasterPact MTZ circuit breaker during ordering, sharing information and asking for help remotely.
- **MySE**: online ordering platform of Schneider for partners, offering most of our products.
- **GoDigital store**: An online marketplace to purchase Digital Modules 24/7. It allows upgrading of MasterPact MTZ at anytime.

**Product selector**

Product Selector aims at providing a fast, secure and smart way of selecting products. It includes the selection of the basic frame, control unit, accessories and Digital Modules. Compared with the traditional way of filling up order forms or specifying customer functions, it brings the following benefits:

- **Easy access**: no login, direct access on Schneider website or on distributor’s website
- **Reliable**: compatibilities between core product and accessories are constantly tested
- **Wide coverage**: more than 130 ranges from Schneider are available (MasterPact, ComPact, TeSys, Acti 9, Altivar…)

**Yesterday,**
Ordering process of MasterPact MTZ with MyPact

- **new configuration**
  - Select base unit, accessories and digital modules
  - Save configuration and place order

- **repeat or modified configuration**
  - Open existing configuration [1]
  - Fine-tuning
  - Save configuration and place order

  [1] Existing configuration can be opened directly in the saved configurations or by entering the Product Code.

**Today,**
Ordering process of MasterPact MTZ with Product Selector

**Non MySE partner**

- Select base unit, accessories and digital modules
- Save configuration and place order
- Fine-tuning
- Save configuration and place order
- Send it to distributors or to Schneider CCC for ordering

**MySE partner [1]**

- Select base unit, accessories and digital modules
- Download the bill of material
- Upload the file in MySE and order

Order your breaker
Order your MasterPact MTZ through digital tools
Product selector

Go on the range page on www.se.com

MasterPact MTZ
High current air circuit breakers up to 6300 A embedding advanced digital technologies

Part of Pact Series

Future Ready MasterPact MTZ is a comprehensive range of air circuit breakers designed to protect electrical systems from damage caused by overloads, short circuits and equipment ground faults. MasterPact MTZ embeds advanced digital technologies and Micrologic X control units helping to contribute to safety and energy efficiency.

Clic on «product selector» and run your selection

Select your MasterPact MTZ

- Circuit Breaker MTZ (300 A - 4000 A)

Note: All selections are encouraged to be done in Product Selector. If you have difficulties accessing or using Product Selector, contact Schneider Electric Customer Care Centre or your Schneider Electric sales representatives for more information about MTZ ordering.
MasterPact MTZ Product Code is an alphanumeric code representing the complete selection of a MasterPact MTZ circuit breaker. It will be automatically generated for each MasterPact MTZ circuit breaker after completing the selection through Product Selector. It will appear in the invoice and delivery documents as well as the labelling on the MasterPact MTZ circuit breaker and the packaging.

MasterPact MTZ Product Code brings the following benefits:
- Quick and unique identification of the initial selection of a circuit breaker can be achieved by reading the code on the physical products or other recordings
- Reordering of the same MasterPact MTZ circuit breaker is simplified by communicating selection through product code
- Recording or sharing information about the initial selection of a circuit breaker is simplified
- Details of the coding rules can be accessed through CCC and there are some of the highlights:
  - All options of accessories are coded.
  - The minimum length of the code is 9 characters and the maximum length of the code is 33* characters depending on the choice of the accessories.
  - Capital letters, numbers, and start sign [1] are used.
  - [1] The maximum length of the code may change due to future enrichment of the offer.

An example of MasterPact MTZ product code
- MasterPact type: MTZ2
- Rating: 1000A
- Sensor rating: 800A
- Performance Level: H1
- MicroLogic: 5.0 X
- VPS module: Yes
- Number of poles: 4P

> Product Code: WADFEEADN**A

<table>
<thead>
<tr>
<th>Yesterday</th>
<th>Today</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calling CCC and try to explain all the customer functions</td>
<td>Sending a text message through CCC app with the product code</td>
</tr>
<tr>
<td>Engaging Schneider Electric Field Service to conduct an analysis</td>
<td>Checking the product code on the physical products</td>
</tr>
<tr>
<td>Fill up order form or calling Schneider Electric CCC</td>
<td>Type in the product code through Product Selector and send order</td>
</tr>
</tbody>
</table>

When you want to share information with your colleagues or Schneider Electric CCC

When you want to know the selection of a circuit breaker

When you want to reorder a circuit breaker
GoDigital is the Schneider Electric store that allows you to purchase Digital Modules for MasterPact MTZ control unit MicroLogic X that is already installed in the MasterPact MTZ. It provides different Digital Modules to customize your control unit with optional protection, measurement and Maintenance & diagnostics functionalities. It is open 24/7. With GoDigital store, Panel Builders have the flexibility to further customize the MicroLogic X features at last minute before commissioning the switchboard. Electrical contractors and facility managers can upgrade the install base during operational phase of product life cycle, according to new requirements, anytime, without changing the hardware or disrupting operations.

Note: Changing the protection functions among LI (MicroLogic 2.0 X), LSI (MicroLogic 5.0 X), LSIG (MicroLogic 6.0 X) and LSIV (MicroLogic 7.0 X) requires changing the MicroLogic X.

Each Digital Module purchased is delivered with a software license for a unique MicroLogic X control unit and can only be installed on that particular MicroLogic X. Therefore, the MicroLogic X control unit serial number needs to be preregistered in the GoDigital platform for the first time purchase.

For the first purchase for a particular Micrologic X, three ways are available:

1) EcoStruxure Power Commission
When connected to MicroLogic X through either USB connection or IFE/IFE connection, EcoStruxure Power Commission can read the unique serial number* and identify the MicroLogic X. It will also show all the available Digital Modules which are compatible with the MicroLogic X firmware version. When clicking “Buy”, it will direct the user to GoDigital store PC version with the MicroLogic X serial number automatically registered in it.

2) Ecostruxure Power Device App
When connected to MicroLogic X through either Bluetooth connection or NFC connection, Ecostruxure Power Device App will identify the MicroLogic X and proposes available Digital Modules. When clicking “Purchase”, it will direct the user to GoDigital store mobile version with the MicroLogic X serial number automatically registered in it.

3) GoDigital store PC version
In the section “My assets”, choose the serial number of the MicroLogic X to be upgraded and purchase the additional Digital Modules.

https://godigital.schneider-electric.com/

Note:
- Please note that GoDigital platform is only used to purchase Digital Modules for MicroLogic X which is already installed.
- When ordering a new circuit breaker, Digital Modules are selected in Product Selector and installed in factory before delivered.
- The serial number is also printed on the faceplate of MicroLogic X.
MTZ1 06 to MTZ1 16 fixed circuit breakers

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.

<table>
<thead>
<tr>
<th>Type</th>
<th>Circuit breaker</th>
<th>In (A at 40 °C)</th>
<th>3P</th>
<th>4P</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>H1</strong></td>
<td>MTZ 06 630</td>
<td>42</td>
<td>LV847110</td>
<td>LV847115</td>
</tr>
<tr>
<td></td>
<td>MTZ 08 800</td>
<td>42</td>
<td>LV847120</td>
<td>LV847125</td>
</tr>
<tr>
<td></td>
<td>MTZ 10 1000</td>
<td>42</td>
<td>LV847130</td>
<td>LV847135</td>
</tr>
<tr>
<td></td>
<td>MTZ 12 1250</td>
<td>42</td>
<td>LV847140</td>
<td>LV847145</td>
</tr>
<tr>
<td></td>
<td>MTZ 16 1600</td>
<td>42</td>
<td>LV847150</td>
<td>LV847155</td>
</tr>
<tr>
<td><strong>H2</strong></td>
<td>MTZ 06 630</td>
<td>50</td>
<td>LV847113</td>
<td>LV847119</td>
</tr>
<tr>
<td></td>
<td>MTZ 08 800</td>
<td>50</td>
<td>LV847123</td>
<td>LV847128</td>
</tr>
<tr>
<td></td>
<td>MTZ 10 1000</td>
<td>50</td>
<td>LV847131</td>
<td>LV847138</td>
</tr>
<tr>
<td></td>
<td>MTZ 12 1250</td>
<td>50</td>
<td>LV847141</td>
<td>LV847147</td>
</tr>
<tr>
<td></td>
<td>MTZ 16 1600</td>
<td>50</td>
<td>LV847151</td>
<td>LV847157</td>
</tr>
<tr>
<td><strong>H3</strong></td>
<td>MTZ 06 630</td>
<td>66</td>
<td>LV846436</td>
<td>LV846443</td>
</tr>
<tr>
<td></td>
<td>MTZ 08 800</td>
<td>66</td>
<td>LV846437</td>
<td>LV846444</td>
</tr>
<tr>
<td></td>
<td>MTZ 10 1000</td>
<td>66</td>
<td>LV846438</td>
<td>LV846445</td>
</tr>
<tr>
<td></td>
<td>MTZ 12 1250</td>
<td>66</td>
<td>LV846439</td>
<td>LV846446</td>
</tr>
<tr>
<td></td>
<td>MTZ 16 1600</td>
<td>66</td>
<td>LV846440</td>
<td>LV846447</td>
</tr>
<tr>
<td><strong>L1</strong></td>
<td>MTZ 06 630</td>
<td>150</td>
<td>LV847112</td>
<td>LV847117</td>
</tr>
<tr>
<td></td>
<td>MTZ 08 800</td>
<td>150</td>
<td>LV847122</td>
<td>LV847127</td>
</tr>
<tr>
<td></td>
<td>MTZ 10 1000</td>
<td>150</td>
<td>LV847132</td>
<td>LV847137</td>
</tr>
</tbody>
</table>

**MicroLogic X control unit**

“Class1 IEC 61557-12 certified power meter”

- MicroLogic 2.0 X basic protection LV847280
- MicroLogic 5.0 X selective protection LV847283
- MicroLogic 6.0 X selective + earth-fault protection LV847288
- MicroLogic 7.0 X selective + earth-leakage protection LV847287

**Digital modules option**

- Energy per phase LV850002
- Waveform capture trip event LV850003
- Power restoration assistant LV850004
- MasterPact operation assistant LV850005
- Individual harmonics analysis LV850006
- ANSI 51N/51G - Ground fault Alarm LV850007
- ERMS - Energy Reducing Maintenance Settings LV850009
- ANSI 32P - Reverse active power protection LV850011
- ANSI 27/59 - Under/Over voltage protection LV850012
- ANSI 67 - Directional overcurrent LV850015
- ANSI 51 - IDMTL overcurrent protection LV850007
- ANSI 81 - Under/Over frequency protection LV850013
- Modbus legacy dataset LV850045
- IEC 61850 for MasterPact MTZ LV850046

**Ethernet communication option**

- ULP Port LV850063
- ULP port wires for MTZ1 LV836388
- IFM Modbus interface LV434000
- IFE Ethernet interface for LV breaker LV434001
- Ethernet interface for LV breakers and gateway LV434002
- I/O application module LV434063

Auxiliaries and accessories:
- for fixed devices: see page I-16.
- for fixed or drawout devices: see page I-16.
- Switch-disconnector version: see page I-18.
- Source changeover assembly: see page I-16.
Order your breaker

MTZ1 06 to MTZ1 16 fixed circuit breakers

Connections

### Front connection

<table>
<thead>
<tr>
<th>630-1600 A</th>
<th>3P</th>
<th>4P</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top</td>
<td>LV847328</td>
<td>LV847330</td>
</tr>
<tr>
<td>Bottom</td>
<td>LV847329</td>
<td>LV847331</td>
</tr>
</tbody>
</table>

### Front connection accessories

**Vertical connection adapters 630-1600 A**

<table>
<thead>
<tr>
<th>3P (3 parts)</th>
<th>LV833642SP</th>
</tr>
</thead>
<tbody>
<tr>
<td>4P (4 parts)</td>
<td>LV833643SP</td>
</tr>
</tbody>
</table>

**Interphase barriers**

<table>
<thead>
<tr>
<th>3P/4P top (3 parts)</th>
<th>LV833648SP</th>
</tr>
</thead>
<tbody>
<tr>
<td>3P/4P bottom (3 parts)</td>
<td>LV833648SP</td>
</tr>
</tbody>
</table>

**Arc chute screen**

<table>
<thead>
<tr>
<th>3P</th>
<th>LV847335SP</th>
</tr>
</thead>
<tbody>
<tr>
<td>4P</td>
<td>LV847336SP</td>
</tr>
</tbody>
</table>

### Rear connection

**Vertical connection**

<table>
<thead>
<tr>
<th>630-1600 A</th>
<th>3P</th>
<th>4P</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top</td>
<td>LV833604</td>
<td>LV833614</td>
</tr>
<tr>
<td>Bottom</td>
<td>LV833605</td>
<td>LV833615</td>
</tr>
</tbody>
</table>

**Horizontal connection**

<table>
<thead>
<tr>
<th>630-1600 A</th>
<th>3P</th>
<th>4P</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top</td>
<td>LV833606</td>
<td>LV833616</td>
</tr>
<tr>
<td>Bottom</td>
<td>LV833607</td>
<td>LV833617</td>
</tr>
</tbody>
</table>

### Rear connection accessories

**Interphase barriers**

<table>
<thead>
<tr>
<th>3P/4P top (3 parts)</th>
<th>LV833648SP</th>
</tr>
</thead>
<tbody>
<tr>
<td>3P/4P bottom (3 parts)</td>
<td>LV833648SP</td>
</tr>
</tbody>
</table>

### Common accessories for front and rear connections

**Spreaders**

<table>
<thead>
<tr>
<th>630-1600 A</th>
<th>3P</th>
<th>4P</th>
</tr>
</thead>
<tbody>
<tr>
<td>LV833622SP</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LV833623SP</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Cable lug adapters 630-1600 A**

<table>
<thead>
<tr>
<th>3P (3 parts)</th>
<th>LV833644SP</th>
</tr>
</thead>
<tbody>
<tr>
<td>4P (4 parts)</td>
<td>LV833645SP</td>
</tr>
</tbody>
</table>
## MTZ1 06 to MTZ1 16 fixed circuit breakers
### Indication contacts and remote operation

### Indication contacts

#### ON/OFF indication contacts (OF)

<table>
<thead>
<tr>
<th>Changeover contacts (6 A - 240 V)</th>
<th>4 (standard)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 low-level OF to replace 1 standard OF (4 max.)</td>
<td>LV847339</td>
</tr>
</tbody>
</table>

#### “Fault trip” indication contacts (SDE)

<table>
<thead>
<tr>
<th>Changeover contact (6 A - 240 V)</th>
<th>1 (standard)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 additional SDE (6 A - 240 V)</td>
<td>LV847340</td>
</tr>
<tr>
<td>1 additional low-level SDE</td>
<td>LV847341</td>
</tr>
</tbody>
</table>

#### Programmable contacts (programmed via MicroLogic X control unit)

| 2 contacts (M2C) (5 A - 240 V) | LV847403 |

### Remote operation

#### “Ready to close” contact (1 max.)

<table>
<thead>
<tr>
<th>1 changeover contact (5 A - 240 V)</th>
<th>PF</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 low-level changeover contact</td>
<td>LV847342</td>
</tr>
</tbody>
</table>

#### Electrical closing pushbutton

<table>
<thead>
<tr>
<th>1 pushbutton</th>
<th>BPFE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>LV847512</td>
</tr>
</tbody>
</table>

#### Remote reset after fault trip

<table>
<thead>
<tr>
<th>Electrical reset</th>
<th>RES</th>
</tr>
</thead>
<tbody>
<tr>
<td>100/130 V AC</td>
<td>LV847344</td>
</tr>
<tr>
<td>200/240 V AC</td>
<td>LV847345</td>
</tr>
<tr>
<td>Automatic reset</td>
<td>RAR</td>
</tr>
<tr>
<td>Adaptation</td>
<td>LV847346</td>
</tr>
</tbody>
</table>

---
MTZ1 06 to MTZ1 16 fixed circuit breakers

Remote operation

Remote ON/OFF

<table>
<thead>
<tr>
<th>Gear motor</th>
<th>MCH</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC 50/60 Hz</td>
<td>LV847391</td>
</tr>
<tr>
<td>48 V</td>
<td></td>
</tr>
<tr>
<td>100/130 V</td>
<td>LV847395</td>
</tr>
<tr>
<td>200/240 V</td>
<td>LV847396</td>
</tr>
<tr>
<td>277/415 V</td>
<td>LV847398</td>
</tr>
<tr>
<td>440/480 V</td>
<td>LV847400</td>
</tr>
<tr>
<td>DC</td>
<td>LV847390</td>
</tr>
<tr>
<td>24/30 V</td>
<td></td>
</tr>
<tr>
<td>48/60 V</td>
<td>LV847391</td>
</tr>
<tr>
<td>100/130 V</td>
<td>LV847392</td>
</tr>
<tr>
<td>200/250 V</td>
<td>LV847393</td>
</tr>
</tbody>
</table>

Instantaneous voltage releases

<table>
<thead>
<tr>
<th></th>
<th>Closing release</th>
<th>Opening release</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AC 50/60 Hz</td>
<td>LV847350</td>
<td>LV847360</td>
</tr>
<tr>
<td>DC</td>
<td>LV847355</td>
<td>LV847365</td>
</tr>
<tr>
<td>24/30 V DC, 24 V AC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>48/60 V DC, 48 V AC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>100/130 V AC/DC</td>
<td>LV847352</td>
<td>LV847362</td>
</tr>
<tr>
<td>200/250 V AC/DC</td>
<td>LV847353</td>
<td>LV847363</td>
</tr>
<tr>
<td>277 V AC</td>
<td>LV847354</td>
<td>LV847364</td>
</tr>
<tr>
<td>380/480 V AC</td>
<td>LV847355</td>
<td>LV847365</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Diagnostics</th>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>AC 50/60 Hz</td>
<td>LV847311</td>
<td>LV847321</td>
</tr>
<tr>
<td>DC</td>
<td>LV847312</td>
<td>LV847322</td>
</tr>
<tr>
<td>24/30 V DC, 24 V AC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>48/60 V DC, 48 V AC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>100/130 V AC/DC</td>
<td>LV847313</td>
<td>LV847323</td>
</tr>
<tr>
<td>200/250 V AC/DC</td>
<td>LV847314</td>
<td>LV847324</td>
</tr>
<tr>
<td>277 V AC</td>
<td>LV847315</td>
<td>LV847325</td>
</tr>
<tr>
<td>380/480 V AC</td>
<td>LV847316</td>
<td>LV847326</td>
</tr>
</tbody>
</table>

Remote tripping

| Instantaneous voltage release | 2nd MX |
| AC 50/60 Hz                  | LV847370 |
| DC                            | LV847371 |
| 24/30 V DC, 24 V AC          |         |
| 48/60 V DC, 48 V AC          |         |
| 100/130 V AC/DC              | LV847372 |
| 200/250 V AC/DC              | LV847373 |
| 277 V AC                     | LV847374 |
| 380/480 V AC                 | LV847375 |

| MN delay unit              | R (non-adjustable) | Rr (adjustable) |
| AC 50/60 Hz                | LV833680SP        | LV833681SP      |
| DC                          | LV833685SP        | LV833682SP      |
| 48/60 V AC/DC              |                 |
| 100/130 V AC/DC            |                 |
| 200/250 V AC/DC            |                 |
| 380/480 V AC/DC            |                 |

[1] No compatible with any version of MN coils.
A MasterPact drawout circuit breaker is described by minimum 5 catalogue numbers corresponding to:
- the basic circuit breaker
- a control unit
- a chassis with standard terminal blocks
- a top connection
- a bottom connection.
A communication option and various auxiliaries and accessories may also be added.

### Basic circuit breaker

#### Type H1

<table>
<thead>
<tr>
<th>In (A at 40 °C)</th>
<th>Icu (kA for U = 220/440 V)</th>
<th>Ics = 100 % Icu</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTZ 06 630</td>
<td>42</td>
<td>LV847200</td>
</tr>
<tr>
<td>MTZ 08 800</td>
<td>42</td>
<td>LV847210</td>
</tr>
<tr>
<td>MTZ 10 1000</td>
<td>42</td>
<td>LV847220</td>
</tr>
<tr>
<td>MTZ 12 1250</td>
<td>42</td>
<td>LV847230</td>
</tr>
<tr>
<td>MTZ 16 1600</td>
<td>42</td>
<td>LV847240</td>
</tr>
</tbody>
</table>

#### Type H2

<table>
<thead>
<tr>
<th>In (A at 40 °C)</th>
<th>Icu (kA for U = 220/440 V)</th>
<th>Ics = 100 % Icu</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTZ 06 630</td>
<td>50</td>
<td>LV847203</td>
</tr>
<tr>
<td>MTZ 08 800</td>
<td>50</td>
<td>LV847211</td>
</tr>
<tr>
<td>MTZ 10 1000</td>
<td>50</td>
<td>LV847221</td>
</tr>
<tr>
<td>MTZ 12 1250</td>
<td>50</td>
<td>LV847231</td>
</tr>
<tr>
<td>MTZ 16 1600</td>
<td>50</td>
<td>LV847241</td>
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</table>

#### Type H3

<table>
<thead>
<tr>
<th>In (A at 40 °C)</th>
<th>Icu (kA for U = 220/440 V)</th>
<th>Ics = 100 % Icu</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTZ 06 630</td>
<td>66</td>
<td>LV846450</td>
</tr>
<tr>
<td>MTZ 08 800</td>
<td>66</td>
<td>LV846451</td>
</tr>
<tr>
<td>MTZ 10 1000</td>
<td>66</td>
<td>LV846452</td>
</tr>
<tr>
<td>MTZ 12 1250</td>
<td>66</td>
<td>LV846453</td>
</tr>
<tr>
<td>MTZ 16 1600</td>
<td>66</td>
<td>LV846454</td>
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#### Type L1

<table>
<thead>
<tr>
<th>In (A at 40 °C)</th>
<th>Icu (kA for U = 220/415 V)</th>
<th>Ics = 100 % Icu</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTZ 06 630</td>
<td>150</td>
<td>LV847202</td>
</tr>
<tr>
<td>MTZ 08 800</td>
<td>150</td>
<td>LV847212</td>
</tr>
<tr>
<td>MTZ 10 1000</td>
<td>150</td>
<td>LV847222</td>
</tr>
</tbody>
</table>

#### MicroLogic X control unit

- **Class1 IEC 61557-12 certified power meter**

- MicroLogic 2.0 X  basic protection : LV847281
- MicroLogic 5.0 X  selective protection : LV847284
- MicroLogic 6.0 X  selective + earth-fault protection : LV847292
- MicroLogic 7.0 X  selective + earth-leakage protection : LV855307

#### Digital modules option

- 3P/4P
- Energy per phase : LV850002
- Waveform capture trip event : LV850003
- Power restoration assistant : LV850004
- MasterPact operation assistant : LV850005
- Individual harmonics analysis : LV850006
- ANSI 51N/51G - Ground fault Alarm : LV850007
- ERMS - Energy Reducing Maintenance Settings : LV850009
- ANSI 32P - Reverse active power protection : LV850011
- ANSI 27/59 - Under/Over voltage protection : LV850012
- ANSI 67 - Directional overcurrent : LV850015
- ANSI 51 - IDMTL overcurrent protection : LV850037
- ANSI 81 - Under/Over frequency protection : LV850013
- Modbus legacy dataset : LV850045
- IEC 61850 for MasterPact MTZ : LV850046

#### Chassis

- **For type H1 - H2 - H3**

| 630-1250 A | LV833722 | LV833725 |
| 1600 A     | LV833723 | LV833726 |

- **For type L1**

| 630-1000 A | LV833723 | LV833726 |

Auxiliaries and accessories:
- for drawout devices: see page I-16.
- for fixed or drawout devices: see page I-16.
- Switch-disconnector version: see page I-16.
- Source changeover assembly: see page I-16.
MTZ1 06 to MTZ1 16 drawout circuit breakers
Circuit breaker and connections

Chassis terminal blocks

Standard terminal blocks

Each chassis comes equipped in standard with the terminal blocks corresponding to the customer functions below:
- the basic device: OF1, OF2, OF3, OF4, SDE1, UC3 (UC3 for 3P chassis only, not for 4P)
- the MicroLogic control unit: UC1, UC2
- the 5 most common accessories: MN/MX2, MX1, XF, PF, MCH.

Additional terminal blocks

If the device is equipped with one or a combination of the following 3 additional accessories:
- SDE2/RES
- M2C/ESM
- PTE

all the necessary chassis terminal blocks are coded by one of the part numbers below:

| Chassis terminal block for PTE   | LV839461 |
| Chassis terminal block for SDE2 | LV839462 |
| Chassis terminal block for PTE + SDE2 | LV839463 |
| Chassis terminal block for M2C/ESM | LV839464 |
| Chassis terminal block for SDE2 + M2C/ESM | LV839465 |

Ethernet communication option

| ULP port          | LV850064 |
| ULP port wires for MTZ1 | LV836388 |
| EIFE             | LV851100 |
| IFM              | LV434000 |
| IFE              | LV434001 |
| Ethernet interface for LV breaker | LV434002 |
| Ethernet interface for LV breakers and gateway | LV434063 |

Chassis front connection

| 630-1600 A | 3P | LV833727 |
| 4P | LV833733 |
| Top | 630-1600 A | 3P | LV833728 |
| Bottom | 4P | LV833734 |

Front connection accessories

| Vertical connection adapters 630-1600 A |
| 3P (3 parts) | LV833642SP |
| 4P (4 parts) | LV833643SP |

Chassis rear connection

| Vertical connection |
| 630-1600 A | 3P | LV833729 |
| 4P | LV833735 |
| Top | 630-1600 A | 3P | LV833730 |
| Bottom | 4P | LV833736 |

Horizontal connection

| 630-1600 A | 3P | LV833731 |
| 4P | LV833737 |
| Top | 630-1600 A | 3P | LV833732 |
| Bottom | 4P | LV833738 |

Rear connection accessories

| Interphase barriers [1] |
| 3P/4P (3 parts) | LV833768SP |
| [1] The same kit covers the top and the bottom connections on the same time. |

Common accessories for front and rear connection

| Spreaders |
| 630-1600 A | 3P | LV833622SP |
| 4P | LV833623SP |
| For front and horizontal rear connection. |

| Cable lug adapters 630-1600 A |
| 3P (3 parts) | LV833644SP |
| 4P (4 parts) | LV833645SP |
MTZ1 06 to MTZ1 16 drawout circuit breakers
Chassis locking and accessories

Chassis locking

"Disconnected" position locking

<table>
<thead>
<tr>
<th></th>
<th>VCPO</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>By padlocks</td>
<td></td>
<td></td>
</tr>
<tr>
<td>By Profalux keylocks</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Profalux</td>
<td>1 lock with 1 key + adaptation kit</td>
<td>LV833773</td>
</tr>
<tr>
<td></td>
<td>2 locks 1 key + adaptation kit</td>
<td>LV833774</td>
</tr>
<tr>
<td></td>
<td>2 locks 2 different keys + adaptation kit</td>
<td>LV833775</td>
</tr>
<tr>
<td>By Ronis keylocks</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ronis</td>
<td>1 lock with 1 key + adaptation kit</td>
<td>LV833776</td>
</tr>
<tr>
<td></td>
<td>2 locks 1 key + adaptation kit</td>
<td>LV833777</td>
</tr>
<tr>
<td></td>
<td>2 locks 2 different keys + adaptation kit</td>
<td>LV833778</td>
</tr>
<tr>
<td>Optional disconnected/test/connected position locking</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Adaptation kit</td>
<td>(without keylock):</td>
<td></td>
</tr>
<tr>
<td></td>
<td>adaptation kit Profalux / Ronis</td>
<td>LV833769SP</td>
</tr>
<tr>
<td></td>
<td>adaptation kit Castell</td>
<td>LV833771SP</td>
</tr>
<tr>
<td></td>
<td>adaptation kit Kirk</td>
<td>LV833772SP</td>
</tr>
</tbody>
</table>

Door interlock (1 part)

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Right-hand side of chassis (VPECD)</td>
<td></td>
<td>LV833786</td>
</tr>
<tr>
<td>Left-hand side of chassis (VPECG)</td>
<td></td>
<td>LV833787</td>
</tr>
</tbody>
</table>

Racking interlock

<table>
<thead>
<tr>
<th></th>
<th></th>
<th>LV833788</th>
</tr>
</thead>
<tbody>
<tr>
<td>Racking interlock (VPOC)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Breaker mismatch protection

<table>
<thead>
<tr>
<th></th>
<th></th>
<th>LV833767SP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breaker mismatch protection (VDC)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Chassis accessories

Arc chute cover

<table>
<thead>
<tr>
<th></th>
<th>3P/4P</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Auxiliary terminal shield (CB)

<table>
<thead>
<tr>
<th></th>
<th>Terminal shield</th>
<th>3P</th>
<th>LV833763</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>4P</td>
<td>LV833764</td>
</tr>
</tbody>
</table>

Safety shutters as standard

<table>
<thead>
<tr>
<th></th>
<th>Safety shutters (VO)</th>
<th>3P</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>4P</td>
<td>Standard</td>
</tr>
</tbody>
</table>
**Indication contacts**

<table>
<thead>
<tr>
<th>ON/OFF indication contacts (OF)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Changeover contacts (6 A - 240 V)</td>
<td></td>
</tr>
<tr>
<td>1 low-level OF to replace 1 standard OF (4 max.)</td>
<td></td>
</tr>
<tr>
<td>4 (standard)</td>
<td>LV833806</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>“Fault trip” indication contacts (SDE)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Changeover contact (6 A - 240 V)</td>
<td></td>
</tr>
<tr>
<td>1 additional SDE (6 A - 240 V)</td>
<td></td>
</tr>
<tr>
<td>1 additional low-level SDE</td>
<td></td>
</tr>
<tr>
<td>1 (standard)</td>
<td>LV847430</td>
</tr>
<tr>
<td>LV847431</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Programmable contacts (programmed via MicroLogic X control unit)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>2 contacts M2C (5 A - 240 V)</td>
<td></td>
</tr>
<tr>
<td>2 contacts (standard)</td>
<td>LV847483</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Carriage switches (connected / disconnected / test position)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Changeover contacts (6 A - 240 V)</td>
<td></td>
</tr>
<tr>
<td>1 connected position contact (3 max.)</td>
<td></td>
</tr>
<tr>
<td>1 test position contact (1 max.)</td>
<td></td>
</tr>
<tr>
<td>1 disconnected position contact (2 max.)</td>
<td></td>
</tr>
<tr>
<td>LV833751</td>
<td></td>
</tr>
<tr>
<td>LV833752</td>
<td></td>
</tr>
<tr>
<td>LV833753</td>
<td></td>
</tr>
</tbody>
</table>

And/or low-level changeover contacts

| 1 connected position contact (3 max.) |  |
| 1 test position contact (1 max.) |  |
| 1 disconnected position contact (2 max.) |  |
| LV833754 |
| LV833755 |
| LV833756 |

<table>
<thead>
<tr>
<th>Auxiliary terminals for chassis alone</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>3 wire terminal (30 parts)</td>
<td></td>
</tr>
<tr>
<td>6 wire terminal (10 parts)</td>
<td></td>
</tr>
<tr>
<td>Jumpers (10 parts)</td>
<td></td>
</tr>
<tr>
<td>LV847071SP</td>
<td></td>
</tr>
<tr>
<td>LV847072SP</td>
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</tr>
<tr>
<td>LV847900SP</td>
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<table>
<thead>
<tr>
<th>Remote operation</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>“Ready to close” contact (1 max.)</td>
<td></td>
</tr>
<tr>
<td>1 changeover contact (5 A - 240 V)</td>
<td></td>
</tr>
<tr>
<td>1 low-level changeover contact</td>
<td></td>
</tr>
<tr>
<td>LF</td>
<td>LV847432</td>
</tr>
<tr>
<td>LV847433</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electrical closing pushbutton</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1 pushbutton</td>
<td></td>
</tr>
<tr>
<td>BF</td>
<td>LV847512</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Remote reset after fault trip</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical reset</td>
<td></td>
</tr>
<tr>
<td>RES</td>
<td></td>
</tr>
<tr>
<td>100/130 V AC</td>
<td></td>
</tr>
<tr>
<td>200/240 V AC</td>
<td></td>
</tr>
<tr>
<td>LV847434</td>
<td></td>
</tr>
<tr>
<td>LV847435</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Automatic reset</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>RAR</td>
<td></td>
</tr>
<tr>
<td>Adaptation</td>
<td></td>
</tr>
<tr>
<td>LV847346</td>
<td></td>
</tr>
</tbody>
</table>
### Remote ON/OFF

**Gear motor**

<table>
<thead>
<tr>
<th>Mode</th>
<th>Voltage</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC 50/60 Hz</td>
<td>48 V</td>
<td>LV847461</td>
</tr>
<tr>
<td></td>
<td>100/130 V</td>
<td>LV847465</td>
</tr>
<tr>
<td></td>
<td>200/240 V</td>
<td>LV847466</td>
</tr>
<tr>
<td></td>
<td>277/415 V</td>
<td>LV847468</td>
</tr>
<tr>
<td></td>
<td>440/480 V</td>
<td>LV847470</td>
</tr>
<tr>
<td>DC</td>
<td>24/30 V</td>
<td>LV847460</td>
</tr>
<tr>
<td></td>
<td>48/60 V</td>
<td>LV847461</td>
</tr>
<tr>
<td></td>
<td>100/130 V</td>
<td>LV847462</td>
</tr>
<tr>
<td></td>
<td>200/250 V</td>
<td>LV847463</td>
</tr>
</tbody>
</table>

### Instantaneous voltage releases

**Standard**

<table>
<thead>
<tr>
<th>Mode</th>
<th>Voltage</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC 50/60 Hz</td>
<td>24/30 V DC, 24 V AC</td>
<td>LV847440</td>
</tr>
<tr>
<td>DC</td>
<td>48/60 V DC, 48 V AC</td>
<td>LV847441</td>
</tr>
<tr>
<td></td>
<td>100/130 V AC/DC</td>
<td>LV847442</td>
</tr>
<tr>
<td></td>
<td>200/250 V AC/DC</td>
<td>LV847443</td>
</tr>
<tr>
<td></td>
<td>277 V AC</td>
<td>LV847444</td>
</tr>
<tr>
<td></td>
<td>380/480 V AC</td>
<td>LV847445</td>
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</tbody>
</table>

**Diagnostics & Communicating**

<table>
<thead>
<tr>
<th>Mode</th>
<th>Voltage</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC 50/60 Hz</td>
<td>24/30 V DC, 24 V AC</td>
<td>LV847440</td>
</tr>
<tr>
<td>DC</td>
<td>48/60 V DC, 48 V AC</td>
<td>LV847441</td>
</tr>
<tr>
<td></td>
<td>100/130 V AC/DC</td>
<td>LV847442</td>
</tr>
<tr>
<td></td>
<td>200/250 V AC/DC</td>
<td>LV847443</td>
</tr>
<tr>
<td></td>
<td>277 V AC</td>
<td>LV847444</td>
</tr>
<tr>
<td></td>
<td>380/480 V AC</td>
<td>LV847445</td>
</tr>
</tbody>
</table>

**Opening release**

<table>
<thead>
<tr>
<th>Mode</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>XF</td>
<td>LV833810</td>
</tr>
<tr>
<td>MX</td>
<td>LV833811</td>
</tr>
<tr>
<td>LV833812</td>
<td></td>
</tr>
<tr>
<td>LV833813</td>
<td></td>
</tr>
<tr>
<td>LV833814</td>
<td></td>
</tr>
<tr>
<td>LV833815</td>
<td></td>
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<tr>
<td>LV833816</td>
<td></td>
</tr>
<tr>
<td>LV833817</td>
<td></td>
</tr>
<tr>
<td>LV833818</td>
<td></td>
</tr>
</tbody>
</table>

**Remote tripping**

**Instantaneous voltage release**

<table>
<thead>
<tr>
<th>Mode</th>
<th>Voltage</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC 50/60 Hz</td>
<td>24/30 V DC, 24 V AC</td>
<td>LV847450</td>
</tr>
<tr>
<td>DC</td>
<td>48/60 V DC, 48 V AC</td>
<td>LV847451</td>
</tr>
<tr>
<td></td>
<td>100/130 V AC/DC</td>
<td>LV847452</td>
</tr>
<tr>
<td></td>
<td>200/250 V AC/DC</td>
<td>LV847453</td>
</tr>
<tr>
<td></td>
<td>277 V AC</td>
<td>LV847454</td>
</tr>
<tr>
<td></td>
<td>380/480 V AC</td>
<td>LV847455</td>
</tr>
</tbody>
</table>

**MN delay unit**

<table>
<thead>
<tr>
<th>Mode</th>
<th>Voltage</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC 50/60 Hz</td>
<td>48/60 V AC/DC</td>
<td>LV833684SP</td>
</tr>
<tr>
<td>DC</td>
<td>100/130 V AC/DC</td>
<td>LV833685SP</td>
</tr>
<tr>
<td></td>
<td>200/250 V AC/DC</td>
<td>LV833682SP</td>
</tr>
<tr>
<td></td>
<td>380/480 V AC/DC</td>
<td>LV833683SP</td>
</tr>
</tbody>
</table>

**Remote operation**

- MTZ1 06 to MTZ1 16 drawout circuit breakers

**Features:**
- Remote ON/OFF
- Instantaneous voltage releases
- Diagnosis & Communicating
- Remote tripping
- MN delay unit

[1] No compatible with any version of MN coils.
Order your breaker

Accessories for MTZ1 06 to MTZ1 16
fixed or drawout circuit breakers

Circuit breaker locking

<table>
<thead>
<tr>
<th>Pushbutton locking device</th>
<th>By padlocks</th>
<th>LV833897</th>
</tr>
</thead>
</table>

OFF position locking

<table>
<thead>
<tr>
<th>By padlocks + BPFE support</th>
<th>VCPO</th>
<th>LV847514</th>
</tr>
</thead>
</table>

By Profalux keylocks

<table>
<thead>
<tr>
<th>Profalux</th>
<th>1 lock with 1 key + adaptation kit</th>
<th>LV847519</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2 locks 1 key + adaptation kit</td>
<td>LV847520</td>
</tr>
</tbody>
</table>

By Ronis keylocks

<table>
<thead>
<tr>
<th>Ronis</th>
<th>1 lock with 1 key + adaptation kit</th>
<th>LV847521</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2 locks 1 key + adaptation kit</td>
<td>LV847522</td>
</tr>
<tr>
<td>Adaptation kit (without keylock):</td>
<td>adaptation kit Profalux / Ronis</td>
<td>LV847515SP</td>
</tr>
<tr>
<td></td>
<td>adaptation kit Kirk</td>
<td>LV847517SP</td>
</tr>
<tr>
<td></td>
<td>adaptation kit Castell</td>
<td>LV847518SP</td>
</tr>
</tbody>
</table>

Cable-type door interlock

<table>
<thead>
<tr>
<th>1 complete assembly for MasterPact MTZ1 fixed devices</th>
<th>LV833920SP</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 complete assembly for MasterPact MTZ1 drawout devices</td>
<td>LV833921SP</td>
</tr>
</tbody>
</table>

Mechanical interlocking for source changeover

Interlocking using connecting rods

<table>
<thead>
<tr>
<th>Choose 1 kit of 2 adaptation fixtures + 1 set of rods</th>
<th>LV833203SP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kit of 2 MasterPact MTZ1 adaptation fixtures for fixed devices</td>
<td>LV833204SP</td>
</tr>
<tr>
<td>Kit of 2 MasterPact MTZ1 adaptation fixtures for drawout devices</td>
<td>LV833210SP</td>
</tr>
<tr>
<td>1 set of 2 interlocking rods</td>
<td>LV833210SP</td>
</tr>
</tbody>
</table>

Interlocking using cables [1]

<table>
<thead>
<tr>
<th>Choose 2 adaptation fixtures (1 for each breaker) + 1 set of cables</th>
<th>LV833200SP</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 adaptation fixture for MasterPact MTZ1 fixed devices</td>
<td>LV833201SP</td>
</tr>
<tr>
<td>1 adaptation fixture for MasterPact MTZ1 drawout devices</td>
<td>LV833209SP</td>
</tr>
<tr>
<td>1 set of 2 cables</td>
<td>LV833209SP</td>
</tr>
</tbody>
</table>

[1] Can be used with any combination of MTZ, fixed or drawout devices.

Other circuit breaker accessories

Mechanical operation counter

<table>
<thead>
<tr>
<th>Operation counter CDM</th>
<th>LV833895</th>
</tr>
</thead>
</table>

Escutcheon and accessories

<table>
<thead>
<tr>
<th>Escutcheon</th>
<th>Fixed</th>
<th>LV833718SP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cover</td>
<td>Drawout</td>
<td>LV833857SP</td>
</tr>
<tr>
<td>Blanking plate</td>
<td>LV833859SP</td>
<td></td>
</tr>
</tbody>
</table>

Escutcheon | Cover | Blanking plate | LV833858SP |
# Accessories for MicroLogic control units

## External sensors

<table>
<thead>
<tr>
<th>Sensor type</th>
<th>Rating</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rectangular sensor for earth-leakage protection</td>
<td>280 mm x 115 mm</td>
<td>LV833573SP</td>
</tr>
</tbody>
</table>

## Source ground return (SGR) earth fault protection

<table>
<thead>
<tr>
<th>Sensor type</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>External sensor (SGR)</td>
<td>LV833579SP</td>
</tr>
<tr>
<td>MDGF summing module</td>
<td>LV648891SP</td>
</tr>
</tbody>
</table>

## Voltage measurement input (for breakers supplied via bottom terminals)

<table>
<thead>
<tr>
<th>Voltage measurement input</th>
<th>Fixed</th>
<th>Drawout</th>
</tr>
</thead>
<tbody>
<tr>
<td>LV847506</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LV847507</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Voltage power supply module (VPS) for MicroLogic X

- LV850060

## Zone Selective Interlocking option for MicroLogic X

<table>
<thead>
<tr>
<th>Module type</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZSI Standard</td>
<td>LV848892SP</td>
</tr>
</tbody>
</table>

## External power supply module (AD)

- 24/30 V DC: LV454440
- 48/60 V DC: LV454441
- 100/125 V DC: LV454442
- 110/130 V AC: LV454443
- 200/240 V AC: LV454444

## Restraint Interface Module - ZSI

- LV848892SP

## Test & Commissioning equipment

- USB Cable (miniUSB/USB) for MicroLogic X: LV850067SP
- Mobile Power Pack for MicroLogic X (by APC): LV850055SP

## Special settings

<table>
<thead>
<tr>
<th>Sensors rating</th>
<th>MTZ1 06</th>
<th>MTZ1 08</th>
<th>MTZ1 10</th>
<th>MTZ1 12</th>
<th>MTZ1 16</th>
</tr>
</thead>
<tbody>
<tr>
<td>400</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>630</td>
<td>✔️</td>
<td>✔️</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>800</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>1000</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>1250</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>1600</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
</tbody>
</table>

To be specified when ordering.
A MasterPact fixed switch-disconnector is described by 3 catalogue numbers corresponding to:
- the basic switch-disconnector
- a top connection
- a bottom connection.
Various auxiliaries and accessories may also be added.

### Basic switch-disconnector

<table>
<thead>
<tr>
<th>Type HA</th>
<th>3P</th>
<th>4P</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>In (A at 40 °C) Icm (kA peak for U = 220/690 V)</td>
<td></td>
</tr>
<tr>
<td>MTZ1 06</td>
<td>630</td>
<td>60</td>
</tr>
<tr>
<td>MTZ1 08</td>
<td>800</td>
<td>60</td>
</tr>
<tr>
<td>MTZ1 10</td>
<td>1000</td>
<td>60</td>
</tr>
<tr>
<td>MTZ1 12</td>
<td>1250</td>
<td>60</td>
</tr>
<tr>
<td>MTZ1 16</td>
<td>1600</td>
<td>60</td>
</tr>
</tbody>
</table>

Auxiliaries and accessories:
- for fixed devices: see page I-16.
- for fixed or drawout devices: see page I-16.
- Source changeover assembly: see page I-16.
### Front connection

<table>
<thead>
<tr>
<th>630-1600 A</th>
<th>Top</th>
<th>LV847328</th>
<th>4P</th>
<th>LV847330</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bottom</td>
<td>LV847329</td>
<td>LV847331</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Front connection accessories

<table>
<thead>
<tr>
<th>Vertical connection adapters 630-1600 A</th>
</tr>
</thead>
<tbody>
<tr>
<td>3P (3 parts)</td>
</tr>
<tr>
<td>4P (4 parts)</td>
</tr>
</tbody>
</table>

### Interphase barriers

| 3P/4P top (3 parts)                         | LV833648SP |
| 3P/4P bottom (3 parts)                      | LV833648SP |

### Rear connection

<table>
<thead>
<tr>
<th>Vertical connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>630-1600 A</td>
</tr>
<tr>
<td>Top</td>
</tr>
<tr>
<td>Bottom</td>
</tr>
</tbody>
</table>

### Horizontal connection

<table>
<thead>
<tr>
<th>630-1600 A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top</td>
</tr>
<tr>
<td>Bottom</td>
</tr>
</tbody>
</table>

### Rear connection accessories

<table>
<thead>
<tr>
<th>Interphase barriers</th>
</tr>
</thead>
<tbody>
<tr>
<td>3P/4P top (3 parts)</td>
</tr>
<tr>
<td>3P/4P bottom (3 parts)</td>
</tr>
</tbody>
</table>

### Common accessories for front and rear connection

<table>
<thead>
<tr>
<th>Spreaders</th>
</tr>
</thead>
<tbody>
<tr>
<td>630-1600 A</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

For front and horizontal rear connection

<table>
<thead>
<tr>
<th>Cable lug adapters 630-1600 A</th>
</tr>
</thead>
<tbody>
<tr>
<td>3P (3 parts)</td>
</tr>
<tr>
<td>4P (4 parts)</td>
</tr>
</tbody>
</table>
A MasterPact drawout switch-disconnector is described by minimum 4 catalogue numbers corresponding to:
- the basic switch-disconnector
- a chassis with standard terminal blocks
- a top connection
- a bottom connection.

Various auxiliaries and accessories may also be added.

### Basic switch-disconnector

<table>
<thead>
<tr>
<th>Type HA</th>
<th>3P</th>
<th>4P</th>
</tr>
</thead>
<tbody>
<tr>
<td>In (A at 40 °C) lcm (kA peak for U = 220/690 V)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MTZ1 06</td>
<td>630</td>
<td>75</td>
</tr>
<tr>
<td>MTZ1 08</td>
<td>800</td>
<td>75</td>
</tr>
<tr>
<td>MTZ1 10</td>
<td>1000</td>
<td>75</td>
</tr>
<tr>
<td>MTZ1 12</td>
<td>1250</td>
<td>75</td>
</tr>
<tr>
<td>MTZ1 16</td>
<td>1600</td>
<td>75</td>
</tr>
</tbody>
</table>

### Chassis

| Chassis terminal blocks |

#### Standard terminal blocks

Each chassis comes equipped in standard with the terminal blocks corresponding to the customer functions below:
- the basic device : OF1, OF2, OF3, OF4, SDE1, UC3 (UC3 for 3P chassis only, not for 4P)
- the MicroLogic control unit : UC1, UC2
- the 5 most common accessories : MN/MX2, MX1, XF, PF, MCH.

#### Additional terminal blocks

If the device is equipped with one or a combination of the following 3 additional accessories:
- SDE2/RES
- M2C/ESM
- PTE

all the necessary chassis terminal blocks are coded by one of the part numbers below:

- Chassis terminal block for PTE
  - LV839461
- Chassis terminal block for SDE2
  - LV839462
- Chassis terminal block for PTE + SDE2
  - LV839463
- Chassis terminal block for M2C/ESM
  - LV839464
- Chassis terminal block for SDE2 + M2C/ESM
  - LV839465

Auxiliaries and accessories:
- for fixed devices: see page I-13
- for fixed or drawout devices: see page I-16
- Source changeover assembly: see page I-16.
## MTZ1 06 to MTZ1 16 drawout switch-disconnectors
### Connections

#### Chassis front connection

| 630-1600 A | Top | 3P | LV833727 | 4P | LV833733 |
| 630-1600 A | Bottom | 3P | LV833728 | 4P | LV833734 |

#### Front connection accessories

**Vertical connection adapters 630-1600 A**

| 3P (3 parts) | LV833642SP |
| 4P (4 parts) | LV833643SP |

#### Chassis rear connection

**Vertical connection**

| 630-1600 A | Top | 3P | LV833729 | 4P | LV833735 |
| 630-1600 A | Bottom | 3P | LV833730 | 4P | LV833736 |

**Horizontal connection**

| 630-1600 A | Top | 3P | LV833731 | 4P | LV833737 |
| 630-1600 A | Bottom | 3P | LV833732 | 4P | LV833738 |

#### Rear connection accessories

**Interphase barriers (1)**

| 3P/4P (3 parts) | LV833768SP |

(1) The same kit covers the top and the bottom connections on the same time.

#### Common accessories for front and rear connection

**Spreaders**

| 630-1600 A | 3P | LV833622SP |
| 630-1600 A | 4P | LV833623SP |

For front and horizontal rear connection

**Cable lug adapters 630-1600 A**

| 3P (3 parts) | LV833644SP |
| 4P (4 parts) | LV833645SP |
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</th>
<th>3P</th>
<th>4P</th>
</tr>
</thead>
<tbody>
<tr>
<td>N1</td>
<td>In (A at 40 °C) Icu (kA for U = 220/440 V) - Ics = 100 % Icu</td>
<td></td>
</tr>
<tr>
<td>MTZ 08</td>
<td>800 42</td>
<td>LV848000 LV848007</td>
</tr>
<tr>
<td>MTZ 10</td>
<td>1000 42</td>
<td>LV848014 LV848021</td>
</tr>
<tr>
<td>MTZ 12</td>
<td>1250 42</td>
<td>LV848028 LV848035</td>
</tr>
<tr>
<td>MTZ 16</td>
<td>1600 42</td>
<td>LV848042 LV848049</td>
</tr>
<tr>
<td>MTZ 20</td>
<td>2000 42</td>
<td>LV848056 LV848063</td>
</tr>
<tr>
<td>H1</td>
<td>In (A at 40 °C) Icu (kA for U = 220/440 V) - Ics = 100 % Icu</td>
<td></td>
</tr>
<tr>
<td>MTZ 08</td>
<td>800 66</td>
<td>LV848001 LV848008</td>
</tr>
<tr>
<td>MTZ 10</td>
<td>1000 66</td>
<td>LV848015 LV848022</td>
</tr>
<tr>
<td>MTZ 12</td>
<td>1250 66</td>
<td>LV848029 LV848036</td>
</tr>
<tr>
<td>MTZ 16</td>
<td>1600 66</td>
<td>LV848043 LV848050</td>
</tr>
<tr>
<td>MTZ 20</td>
<td>2000 66</td>
<td>LV848057 LV848064</td>
</tr>
<tr>
<td>MTZ 25</td>
<td>2500 66</td>
<td>LV848070 LV848076</td>
</tr>
<tr>
<td>MTZ 32</td>
<td>3200 66</td>
<td>LV848082 LV848087</td>
</tr>
<tr>
<td>MTZ 40</td>
<td>4000 66</td>
<td>LV848092 LV848097</td>
</tr>
<tr>
<td>MTZ 50</td>
<td>5000 100</td>
<td>LV848112 LV848115</td>
</tr>
<tr>
<td>MTZ 63</td>
<td>6300 100</td>
<td>LV848118 LV848121</td>
</tr>
<tr>
<td>H2</td>
<td>In (A at 40 °C) Icu (kA for U = 220/440 V) - Ics = 100 % Icu</td>
<td></td>
</tr>
<tr>
<td>MTZ 08</td>
<td>800 100</td>
<td>LV848002 LV848009</td>
</tr>
<tr>
<td>MTZ 10</td>
<td>1000 100</td>
<td>LV848016 LV848023</td>
</tr>
<tr>
<td>MTZ 12</td>
<td>1250 100</td>
<td>LV848029 LV848036</td>
</tr>
<tr>
<td>MTZ 16</td>
<td>1600 100</td>
<td>LV848043 LV848050</td>
</tr>
<tr>
<td>MTZ 20</td>
<td>2000 100</td>
<td>LV848058 LV848065</td>
</tr>
<tr>
<td>MTZ 25</td>
<td>2500 100</td>
<td>LV848071 LV848077</td>
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<tr>
<td>MTZ 32</td>
<td>3200 100</td>
<td>LV848082 LV848087</td>
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<tr>
<td>MTZ 40</td>
<td>4000 100</td>
<td>LV848092 LV848097</td>
</tr>
<tr>
<td>MTZ 50</td>
<td>5000 150</td>
<td>LV848106 LV848109</td>
</tr>
<tr>
<td>MTZ 63</td>
<td>6300 150</td>
<td>LV848112 LV848115</td>
</tr>
</tbody>
</table>

Option

Neutral on the right

[1] Select a 4P basic circuit breaker with neutral on the right page I-42.
All other catalogue numbers are unchanged.

Auxiliaries and accessories:
- for fixed devices: see page I-35.
- for fixed or drawout devices: see page I-35.
- Switch-disconnector version: see page I-37.
- Source changeover assembly: see page I-35.

Order your breaker
MTZ2 08 to MTZ3 63 fixed circuit breakers
Circuit breakers
MTZ2 08 to MTZ3 63 fixed circuit breakers

Circuit breakers

### MicroLogic X control unit

<table>
<thead>
<tr>
<th>Model</th>
<th>Feature</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>MicroLogic 2.0 X</td>
<td>basic protection</td>
<td>LV847280</td>
</tr>
<tr>
<td>MicroLogic 5.0 X</td>
<td>selective protection</td>
<td>LV847283</td>
</tr>
<tr>
<td>MicroLogic 6.0 X</td>
<td>selective + earth-fault protection</td>
<td>LV847288</td>
</tr>
<tr>
<td>MicroLogic 7.0 X</td>
<td>selective + earth-leakage protection</td>
<td>LV847287</td>
</tr>
</tbody>
</table>

### Digital modules option

<table>
<thead>
<tr>
<th>Module</th>
<th>Function</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy per phase</td>
<td></td>
<td>LV850002</td>
</tr>
<tr>
<td>Waveform capture trip event</td>
<td></td>
<td>LV850003</td>
</tr>
<tr>
<td>Power restoration assistant</td>
<td></td>
<td>LV850004</td>
</tr>
<tr>
<td>MasterPact operation assistant</td>
<td></td>
<td>LV850005</td>
</tr>
<tr>
<td>Individual harmonics analysis</td>
<td></td>
<td>LV850006</td>
</tr>
<tr>
<td>ANSI 51N/51G - Ground fault Alarm</td>
<td></td>
<td>LV850007</td>
</tr>
<tr>
<td>ERMS - Energy Reducing Maintenance Settings</td>
<td></td>
<td>LV850009</td>
</tr>
<tr>
<td>ANSI 32P - Reverse active power protection</td>
<td></td>
<td>LV850011</td>
</tr>
<tr>
<td>ANSI 27/59 - Under/Over voltage protection</td>
<td></td>
<td>LV850012</td>
</tr>
<tr>
<td>ANSI 67 - Directional overcurrent</td>
<td></td>
<td>LV850015</td>
</tr>
<tr>
<td>ANSI 51 - IDMTL overcurrent protection</td>
<td></td>
<td>LV850037</td>
</tr>
<tr>
<td>ANSI 81 - Under/Over frequency protection</td>
<td></td>
<td>LV850013</td>
</tr>
<tr>
<td>Modbus legacy dataset</td>
<td></td>
<td>LV850045</td>
</tr>
<tr>
<td>IEC 61850 for MasterPact MTZ</td>
<td></td>
<td>LV850046</td>
</tr>
</tbody>
</table>

### Communication option

<table>
<thead>
<tr>
<th>Module</th>
<th>Feature</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>ULP port</td>
<td>Modbus interface</td>
<td>LV850061</td>
</tr>
<tr>
<td>IFM</td>
<td>Ethernet interface for LV breaker</td>
<td>LV434000</td>
</tr>
<tr>
<td>IFE</td>
<td>Ethernet interface for LV breakers and gateway</td>
<td>LV434001</td>
</tr>
<tr>
<td>I/O application module</td>
<td></td>
<td>LV434002</td>
</tr>
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</table>

[1] Only for breaker up to 3200A

Auxiliaries and accessories:
- for fixed devices: see page I-35.
- for fixed or drawout devices: see page I-35.
- Switch-disconnector version: see page I-37.
- Source changeover assembly: see page I-35.

Order your breaker
Order your breaker
MTZ2 08 to MTZ3 63 fixed circuit breakers
Connections

Front connection

<table>
<thead>
<tr>
<th>Current Range</th>
<th>Top Type</th>
<th>Bottom Type</th>
<th>3P</th>
<th>4P</th>
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</thead>
<tbody>
<tr>
<td>800-1600 A</td>
<td>LV848128</td>
<td>LV848130</td>
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<tr>
<td>2000 A</td>
<td>LV848124</td>
<td>LV848125</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2500/3200 A</td>
<td>LV848129</td>
<td>LV848131</td>
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Front connection accessories

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<td>LV848424SP</td>
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<tr>
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<td>LV848422SP</td>
<td>LV848425SP</td>
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Rear connection

Vertical connection

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<th>Top Type</th>
<th>Bottom Type</th>
<th>3P</th>
<th>4P</th>
</tr>
</thead>
<tbody>
<tr>
<td>800-2000 A</td>
<td>LV848133</td>
<td>LV848138</td>
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<td></td>
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<tr>
<td>800-1600 A type L1</td>
<td>LV848138</td>
<td>LV848137</td>
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<td>2500/3200 A</td>
<td>LV848134</td>
<td>LV848135</td>
<td></td>
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</tr>
<tr>
<td>2000 A types H3/L1</td>
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<td>LV848140</td>
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<tr>
<td>4000 A</td>
<td>LV848135</td>
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</tr>
<tr>
<td>4000/5000 A</td>
<td>LV848136</td>
<td>LV848137</td>
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<td>6300 A</td>
<td>LV848137</td>
<td>LV848138</td>
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Horizontal connection

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<th>3P</th>
<th>4P</th>
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</thead>
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<tr>
<td>800-2000 A</td>
<td>LV848143</td>
<td>LV848144</td>
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<td></td>
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<tr>
<td>800-1600 A type L1</td>
<td>LV848144</td>
<td>LV848148</td>
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<tr>
<td>2500/3200 A</td>
<td>LV848145</td>
<td>LV848144</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2000 A types H3/L1</td>
<td>LV848145</td>
<td>LV848149</td>
<td></td>
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<td>4000 A</td>
<td>LV848145</td>
<td>LV848146</td>
<td></td>
<td></td>
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<td>4000/5000 A</td>
<td>LV848146</td>
<td>LV848147</td>
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Rear connection accessories

Interphase barriers

<table>
<thead>
<tr>
<th>Type</th>
<th>3P/4P (3 parts)</th>
<th>3P/4P (3 parts)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>LV848599SP</td>
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</table>

[1] The same kit covers the top and the bottom connections on the same time.

Brackets for mounting on a backplate

<table>
<thead>
<tr>
<th>Type</th>
<th>2 parts</th>
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<tbody>
<tr>
<td></td>
<td>LV847829</td>
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Grounding kit

<table>
<thead>
<tr>
<th>Type</th>
<th>Grounding kit for MasterPact MTZ2/MTZ3 fixed</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>LV848558</td>
</tr>
</tbody>
</table>

www.se.com
### Indication contacts

**ON/OFF indication contacts (OF)**

- Block of 4 changeover contacts (6 A - 240 V)
- 1 block (standard)
- 1 additional block of 4 contacts (2 max.)
- LV848198

**"Fault trip" indication contacts (SDE)**

- Changeover contact (6 A - 240 V)
- 1 additional SDE (6 A - 240 V)
- LV848200
- 1 additional low-level SDE
- LV848201

### Programmable contacts (programmed via MicroLogic X control unit)

- 2 contacts M2C (5 A - 240 V)
- LV847403

### Remote operation

**"Ready to close" contact (1 max.)**

- 1 changeover contact (5 A - 240 V)
- LV847342
- 1 low-level changeover contact
- LV847343

### Electrical closing pushbutton

- 1 pushbutton
- LV848534

### Remote reset after fault trip

- **Electrical reset**
  - 100/130 V AC
  - LV848202
  - 200/240 V AC
  - LV848203
- **Automatic reset**
  - LV847346
- **Adaptation**
  - LV847346
Order your breaker

I-26 08 to MTZ3 63 fixed circuit breakers
Remote operation

Remote ON/OFF

Gear motor

<table>
<thead>
<tr>
<th>AC 50/60 Hz</th>
<th>MCH</th>
</tr>
</thead>
<tbody>
<tr>
<td>48 V</td>
<td>LV848207</td>
</tr>
<tr>
<td>100/130 V</td>
<td>LV848211</td>
</tr>
<tr>
<td>200/240 V</td>
<td>LV848212</td>
</tr>
<tr>
<td>250/277 V</td>
<td>LV848213</td>
</tr>
<tr>
<td>380/415 V</td>
<td>LV848214</td>
</tr>
<tr>
<td>440/480 V</td>
<td>LV848215</td>
</tr>
<tr>
<td>DC</td>
<td>LV848206</td>
</tr>
<tr>
<td>24/30 V</td>
<td>LV848207</td>
</tr>
<tr>
<td>48/60 V</td>
<td>LV848208</td>
</tr>
<tr>
<td>100/130 V</td>
<td>LV848209</td>
</tr>
<tr>
<td>200/250 V</td>
<td>LV848209</td>
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Instantaneous voltage releases

Standard

<table>
<thead>
<tr>
<th>AC 50/60 Hz</th>
<th>Closing release</th>
<th>Opening release</th>
</tr>
</thead>
<tbody>
<tr>
<td>24/30 V DC, 24 V AC</td>
<td>LV847350</td>
<td>LV847360</td>
</tr>
<tr>
<td>48/60 V DC, 48 V AC</td>
<td>LV847351</td>
<td>LV847361</td>
</tr>
<tr>
<td>100/130 V AC/DC</td>
<td>LV847352</td>
<td>LV847362</td>
</tr>
<tr>
<td>200/250 V AC/DC</td>
<td>LV847353</td>
<td>LV847363</td>
</tr>
<tr>
<td>277 V AC</td>
<td>LV847354</td>
<td>LV847364</td>
</tr>
<tr>
<td>380/480 V AC</td>
<td>LV847355</td>
<td>LV847365</td>
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Diagnostics & Communicating

<table>
<thead>
<tr>
<th>AC 50/60 Hz</th>
<th>Closing release</th>
<th>Opening release</th>
</tr>
</thead>
<tbody>
<tr>
<td>24/30 V DC, 24 V AC</td>
<td>LV847311</td>
<td>LV847321</td>
</tr>
<tr>
<td>48/60 V DC, 48 V AC</td>
<td>LV847312</td>
<td>LV847322</td>
</tr>
<tr>
<td>100/130 V AC/DC</td>
<td>LV847313</td>
<td>LV847323</td>
</tr>
<tr>
<td>200/250 V AC/DC</td>
<td>LV847314</td>
<td>LV847324</td>
</tr>
<tr>
<td>277 V AC</td>
<td>LV847315</td>
<td>LV847325</td>
</tr>
<tr>
<td>380/480 V AC</td>
<td>LV847316</td>
<td>LV847326</td>
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</table>

Standard

<table>
<thead>
<tr>
<th>AC 50/60 Hz</th>
<th>Opening release</th>
</tr>
</thead>
<tbody>
<tr>
<td>24/30 V DC, 24 V AC</td>
<td>LV847380</td>
</tr>
<tr>
<td>48/60 V DC, 48 V AC</td>
<td>LV847381</td>
</tr>
<tr>
<td>100/130 V AC/DC</td>
<td>LV847382</td>
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<tr>
<td>200/250 V AC/DC</td>
<td>LV847383</td>
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<tr>
<td>380/480 V AC</td>
<td>LV847385</td>
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Diagnostic

<table>
<thead>
<tr>
<th>AC 50/60 Hz</th>
<th>Opening release</th>
</tr>
</thead>
<tbody>
<tr>
<td>24/30 V DC, 24 V AC</td>
<td>LV836700</td>
</tr>
<tr>
<td>48/60 V DC, 48 V AC</td>
<td>LV836701</td>
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<tr>
<td>100/130 V AC/DC</td>
<td>LV836702</td>
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<tr>
<td>200/250 V AC/DC</td>
<td>LV836703</td>
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<td>380/480 V AC</td>
<td>LV836704</td>
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Remote tripping

Instantaneous voltage release

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<th>AC 50/60 Hz</th>
<th>2nd MX</th>
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</thead>
<tbody>
<tr>
<td>24/30 V DC, 24 V AC</td>
<td>LV847370</td>
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<tr>
<td>48/60 V DC, 48 V AC</td>
<td>LV847371</td>
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<tr>
<td>100/130 V AC/DC</td>
<td>LV847372</td>
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<tr>
<td>200/250 V AC/DC</td>
<td>LV847373</td>
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<tr>
<td>277 V AC</td>
<td>LV847374</td>
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<tr>
<td>380/480 V AC</td>
<td>LV847375</td>
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</table>

Retardateur MN

<table>
<thead>
<tr>
<th>AC 50/60 Hz</th>
<th>R (non-adjustable)</th>
<th>Rr (adjustable)</th>
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<tbody>
<tr>
<td>48/60 V AC/DC</td>
<td>LV833680SP</td>
<td>LV833681SP</td>
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<tr>
<td>100/130 V AC/DC</td>
<td>LV833684SP</td>
<td>LV833685SP</td>
</tr>
<tr>
<td>200/250 V AC/DC</td>
<td>LV833682SP</td>
<td>LV833683SP</td>
</tr>
</tbody>
</table>
A MasterPact drawout circuit breaker is described by minimum 5 catalogue numbers corresponding to:
- the basic circuit breaker
- a control unit
- a chassis with standard terminal blocks
- 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>
<th>3P</th>
<th>4P</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type N1</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MTZ 08</td>
<td>800</td>
<td>42</td>
</tr>
<tr>
<td>MTZ 10</td>
<td>1000</td>
<td>42</td>
</tr>
<tr>
<td>MTZ 12</td>
<td>1250</td>
<td>42</td>
</tr>
<tr>
<td>MTZ 16</td>
<td>1600</td>
<td>42</td>
</tr>
<tr>
<td>MTZ 20</td>
<td>2000</td>
<td>42</td>
</tr>
<tr>
<td><strong>Type H1</strong></td>
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<td></td>
</tr>
<tr>
<td>MTZ 08</td>
<td>800</td>
<td>66</td>
</tr>
<tr>
<td>MTZ 10</td>
<td>1000</td>
<td>66</td>
</tr>
<tr>
<td>MTZ 12</td>
<td>1250</td>
<td>66</td>
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<tr>
<td>MTZ 16</td>
<td>1600</td>
<td>66</td>
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<tr>
<td>MTZ 20</td>
<td>2000</td>
<td>66</td>
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<tr>
<td>MTZ 25</td>
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<tr>
<td>MTZ 32</td>
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<tr>
<td>MTZ 40</td>
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<tr>
<td>MTZ 50</td>
<td>5000</td>
<td>100</td>
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<td>MTZ 63</td>
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<td>100</td>
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<tr>
<td><strong>Type H2</strong></td>
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<tr>
<td>MTZ 16</td>
<td>1600</td>
<td>100</td>
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<tr>
<td>MTZ 20</td>
<td>2000</td>
<td>100</td>
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<tr>
<td>MTZ 25</td>
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<td>3200</td>
<td>100</td>
</tr>
<tr>
<td>MTZ 40</td>
<td>4000</td>
<td>100</td>
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<tr>
<td>MTZ 50</td>
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<td>MTZ 63</td>
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<td>150</td>
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<tr>
<td><strong>Type H3</strong></td>
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<td>MTZ 32</td>
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<td>150</td>
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<tr>
<td>MTZ 40</td>
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<td><strong>Type L1</strong></td>
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<tr>
<td>MTZ 10</td>
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<td>150</td>
</tr>
<tr>
<td>MTZ 12</td>
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</tr>
<tr>
<td>MTZ 16</td>
<td>1600</td>
<td>150</td>
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<tr>
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<td>MTZ 10</td>
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<td>100</td>
</tr>
<tr>
<td>MTZ 25</td>
<td>2500</td>
<td>100</td>
</tr>
<tr>
<td>MTZ 32</td>
<td>3200</td>
<td>100</td>
</tr>
<tr>
<td>MTZ 40</td>
<td>4000</td>
<td>100</td>
</tr>
</tbody>
</table>

**Option**

Neutral on the right

[1] Select a 4P basic circuit breaker with neutral on the right page I-42.
All other catalogue numbers are unchanged.
Order your breaker

MTZ2 08 to MTZ3 63 drawout circuit breakers

Circuit breakers

**MicroLogic X control unit**

<table>
<thead>
<tr>
<th>3P/4P</th>
<th>Class1 IEC 61557-12 certified power meter*</th>
</tr>
</thead>
<tbody>
<tr>
<td>MicroLogic 2.0 X</td>
<td>basic protection</td>
</tr>
<tr>
<td>MicroLogic 5.0 X</td>
<td>selective protection</td>
</tr>
<tr>
<td>MicroLogic 6.0 X</td>
<td>selective + earth-fault protection</td>
</tr>
<tr>
<td>MicroLogic 7.0 X**</td>
<td>selective + earth-leakage protection</td>
</tr>
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</table>

**Digital modules option**

<table>
<thead>
<tr>
<th>3P/4P</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Energy per phase</td>
<td>LV850002</td>
</tr>
<tr>
<td>Waveform capture trip event</td>
<td>LV850003</td>
</tr>
<tr>
<td>Power restoration assistant</td>
<td>LV850004</td>
</tr>
<tr>
<td>MasterPact operation assistant</td>
<td>LV850005</td>
</tr>
<tr>
<td>Individual harmonics analysis</td>
<td>LV850006</td>
</tr>
<tr>
<td>ANSI 51N/51G - Ground fault Alarm</td>
<td>LV850007</td>
</tr>
<tr>
<td>ERMS - Energy Reducing Maintenance Settings</td>
<td>LV850009</td>
</tr>
<tr>
<td>ANSI 32P - Reverse active power protection</td>
<td>LV850011</td>
</tr>
<tr>
<td>ANSI 27/59 - Under/Over voltage protection</td>
<td>LV850012</td>
</tr>
<tr>
<td>ANSI 67 - Directional overcurrent</td>
<td>LV850015</td>
</tr>
<tr>
<td>ANSI 51 - IDMTL overcurrent protection</td>
<td>LV850037</td>
</tr>
<tr>
<td>ANSI 81 - Under/Over frequency protection</td>
<td>LV850013</td>
</tr>
<tr>
<td>Modbus legacy dataset</td>
<td>LV850045</td>
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<tr>
<td>IEC 61850 for MasterPact MTZ</td>
<td>LV850046</td>
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</tbody>
</table>

**Grounding kit**

| Grounding kit for MasterPact MTZ2/MTZ3 drawout | LV848559 |

[1] Only for breaker up to 3200 A.
MTZ2 08 to MTZ3 63 drawout circuit breakers

Chassis

<table>
<thead>
<tr>
<th>For type N1/H1 800-1600 A</th>
<th>LV848392</th>
<th>LV848404</th>
</tr>
</thead>
<tbody>
<tr>
<td>For type H2 800-1600 A</td>
<td>LV848393</td>
<td>LV848405</td>
</tr>
<tr>
<td>For type N1/H1/H2/H2V 2000 A</td>
<td>LV848393</td>
<td>LV848405</td>
</tr>
<tr>
<td>2500 A</td>
<td>LV848394</td>
<td>LV848406</td>
</tr>
<tr>
<td>3200 A</td>
<td>LV848395</td>
<td>LV848407</td>
</tr>
<tr>
<td>4000 A</td>
<td>LV848396</td>
<td>LV848408</td>
</tr>
<tr>
<td>For type H1/H2 4000/6300 A</td>
<td>LV848397</td>
<td>LV848409</td>
</tr>
<tr>
<td>For type H3 2000/2500 A</td>
<td>LV848394</td>
<td>LV848406</td>
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<tr>
<td>3200 A</td>
<td>LV848395</td>
<td>LV848407</td>
</tr>
<tr>
<td>4000 A</td>
<td>LV848396</td>
<td>LV848408</td>
</tr>
<tr>
<td>For type L1 800/1600 A</td>
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<tr>
<td>2000 A</td>
<td>LV848400</td>
<td>LV848412</td>
</tr>
</tbody>
</table>

Chassis terminal blocks

Standard terminal blocks
Each chassis comes equipped in standard with the terminal blocks corresponding to the customer functions below:
- the basic device: OF1, OF2, OF3, OF4, SDE1, UC3 (UC3 for 3P chassis only, not for 4P)
- the MicroLogic control unit: UC1, UC2
- the 5 most common accessories: MN/MX2, MX1, XF, PF, MCH.

Additional terminal blocks
If the device is equipped with one or a combination of the following 5 additional accessories:
- SDE2/RES
- M2C/ESM
- PTE
1° additional 4 OF block
2° additional 4 OF block
all the necessary chassis terminal blocks are coded by one of the part numbers below:

Chassis terminal blocks for 8 OF contacts LV839471
Chassis terminal blocks for 4 OF contacts LV839472
Chassis terminal block for PTE LV839473
Chassis terminal blocks for PTE + 8 OF contacts LV839474
Chassis terminal blocks for PTE + 4 OF contacts LV839475
Chassis terminal block for SDE2/RES LV839476
Chassis terminal blocks for SDE2/RES + 8 OF contacts LV839477
Chassis terminal blocks for SDE2/RES + 4 OF contacts LV839478
Chassis terminal blocks for PTE + SDE2/RES LV839479
Chassis terminal blocks for PTE + SDE2/RES + 8 OF contacts LV839480
Chassis terminal blocks for PTE + SDE2/RES + 4 OF contacts LV839481
Chassis terminal block for M2C/ESM LV839482
Chassis terminal blocks for M2C/ESM + 8 OF contacts LV839483
Chassis terminal blocks for M2C/ESM + 4 OF contacts LV839484
Chassis terminal blocks for PTE + M2C/ESM LV839485
Chassis terminal blocks for PTE + M2C/ESM + 8 OF contacts LV839486
Chassis terminal blocks for PTE + M2C/ESM + 4 OF contacts LV839487
Chassis terminal blocks for SDE2/RES + M2C/ESM LV839488
Chassis terminal blocks for SDE2/RES + M2C/ESM + 8 OF contacts LV839489
Chassis terminal blocks for SDE2/RES + M2C/ESM + 4 OF contacts LV839490
Chassis terminal blocks for PTE + SDE2/RES + M2C/ESM LV839491
Chassis terminal blocks for PTE + SDE2/RES + M2C/ESM + 8 OF contacts LV839492
Chassis terminal blocks for PTE + SDE2/RES + M2C/ESM + 4 OF contacts LV839493

Ethernet communication option

<table>
<thead>
<tr>
<th>ULP port</th>
<th>Chassis +</th>
<th>Circuit breaker (ULP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>Standard</td>
<td>LV851200</td>
</tr>
<tr>
<td>IFE</td>
<td>Embedded Ethernet interface for LV breaker</td>
<td>LV434063</td>
</tr>
<tr>
<td>IFM</td>
<td>Modbus interface</td>
<td>LV434000</td>
</tr>
<tr>
<td>IEF</td>
<td>Ethernet interface for LV breaker</td>
<td>LV434001</td>
</tr>
<tr>
<td>IFEM</td>
<td>Ethernet interface for LV breakers and gateway</td>
<td>LV434002</td>
</tr>
</tbody>
</table>

Auxiliaries and accessories:
- for drawout devices: see page I-31
- for fixed or drawout devices: see page I-35.
Switch-disconnector version: see page I-37.
Source changeover assembly: see page I-35.
## MTZ2 08 to MTZ3 63 drawout circuit breakers Connections

### Chassis front connection

<table>
<thead>
<tr>
<th></th>
<th>3P</th>
<th>4P</th>
</tr>
</thead>
<tbody>
<tr>
<td>800-1600 A</td>
<td>LV848415</td>
<td>LV848441</td>
</tr>
<tr>
<td>2000 A</td>
<td>LV848413</td>
<td>LV848417</td>
</tr>
<tr>
<td>2500/3200 A</td>
<td>LV848416</td>
<td>LV848442</td>
</tr>
</tbody>
</table>

### Chassis rear connection

#### Vertical connection

<table>
<thead>
<tr>
<th></th>
<th>3P</th>
<th>4P</th>
</tr>
</thead>
<tbody>
<tr>
<td>800-2000 A</td>
<td>LV848133</td>
<td>LV848158</td>
</tr>
<tr>
<td>800-1600 A type L1</td>
<td>LV848138</td>
<td>LV848163</td>
</tr>
<tr>
<td>2500/3200 A</td>
<td>LV848134</td>
<td>LV848159</td>
</tr>
<tr>
<td>2000 A types H3/L1</td>
<td>LV848139</td>
<td>LV848164</td>
</tr>
<tr>
<td>4000 A</td>
<td>LV848135</td>
<td>LV848160</td>
</tr>
<tr>
<td>4000/5000 A (MTZ3)</td>
<td>LV848140</td>
<td>LV848165</td>
</tr>
<tr>
<td>6300 A (MTZ3)</td>
<td>LV848137</td>
<td>LV848162</td>
</tr>
</tbody>
</table>

#### Horizontal connection

<table>
<thead>
<tr>
<th></th>
<th>3P</th>
<th>4P</th>
</tr>
</thead>
<tbody>
<tr>
<td>800-2000 A</td>
<td>LV848143</td>
<td>LV848168</td>
</tr>
<tr>
<td>800-1600 A type L1</td>
<td>LV848148</td>
<td>LV848173</td>
</tr>
<tr>
<td>2500/3200 A</td>
<td>LV848144</td>
<td>LV848169</td>
</tr>
<tr>
<td>2000 A types H3/L1</td>
<td>LV848149</td>
<td>LV848174</td>
</tr>
<tr>
<td>4000 A</td>
<td>LV848145</td>
<td>LV848170</td>
</tr>
<tr>
<td>4000/5000 A</td>
<td>LV848146</td>
<td>LV848171</td>
</tr>
</tbody>
</table>

### Rear connection accessories

**Interphase barriers [1]**

<table>
<thead>
<tr>
<th></th>
<th>LV848600SP</th>
</tr>
</thead>
</table>

[1] The same kit covers the top and the bottom connections on the same time.
## Chassis locking

<table>
<thead>
<tr>
<th>Locking Type</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Disconnected&quot; position locking</td>
<td>By padlocks (VCPO) and keylocks (Profalux and Ronis)</td>
</tr>
</tbody>
</table>

### Profalux keylocks
- 1 lock with 1 key + adaptation kit: LV848568
- 2 locks 1 key + adaptation kit: LV848569
- 2 locks 2 different keys + adaptation kit: LV848570

### Ronis keylocks
- 1 lock with 1 key + adaptation kit: LV848572
- 2 locks 1 key + adaptation kit: LV848573
- 2 locks 2 different keys + adaptation kit: LV848574

### Optional disconnected/test/connected position locking
- Adaptation kit Profalux / Ronis: LV848564SP
- Adaptation kit Kirk: LV848565SP
- Adaptation kit Castell: LV848566SP

### Door interlock (1 part)
- Right-hand side of chassis: LV848579
- Left-hand side of chassis: LV848580

### Racking interlock
- 1 part: LV848582

### Racking interlock between crank and OFF pushbutton
- 1 part: LV848585

### Automatic spring discharge before breaker removal
- 1 part: LV848554

### Breaker mismatch protection
- Breaker mismatch protection VDC: LV833767SP
Order your breaker
MTZ2 08 to MTZ3 63 drawout circuit breakers
Chassis locking and accessories

<table>
<thead>
<tr>
<th>Chassis accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arc chute cover</td>
</tr>
<tr>
<td>3P/4P Standard</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Auxiliary terminal shield (CB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>800/4000 A</td>
</tr>
<tr>
<td>3P LV848595</td>
</tr>
<tr>
<td>4P LV848596</td>
</tr>
<tr>
<td>4000/8300 A</td>
</tr>
<tr>
<td>3P LV848597</td>
</tr>
<tr>
<td>4P LV848598</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Safety shutters + locking block</th>
</tr>
</thead>
<tbody>
<tr>
<td>800/4000 A</td>
</tr>
<tr>
<td>3P Standard</td>
</tr>
<tr>
<td>4P Standard</td>
</tr>
<tr>
<td>4000/6300 A</td>
</tr>
<tr>
<td>3P Standard</td>
</tr>
<tr>
<td>4P Standard</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Shutter locking block (for remplacement)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 parts for 800/4000 A</td>
</tr>
<tr>
<td>LV848591SP</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Front face shutter position indication and locking</th>
</tr>
</thead>
<tbody>
<tr>
<td>800/4000 A</td>
</tr>
<tr>
<td>3P/4P LV848592</td>
</tr>
<tr>
<td>4P LV848593</td>
</tr>
<tr>
<td>4000/6300 A</td>
</tr>
<tr>
<td>3P LV848594</td>
</tr>
<tr>
<td>4P LV848594</td>
</tr>
</tbody>
</table>
### MTZ2 08 to MTZ3 63 drawout circuit breakers

**Indication contacts**

<table>
<thead>
<tr>
<th>ON/OFF indication contacts (OF)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Block of 4 changeover contacts (6 A - 240 V)</td>
<td>1 block (standard)</td>
</tr>
<tr>
<td>1 additional block of 4 contacts (2 max.)</td>
<td>LV848468</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Combined closed / connected contacts for use with 1 auxiliary contact</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1 contact (5 A - 240 V) (8 max.)</td>
<td>LV848477</td>
</tr>
<tr>
<td>or 1 low-level contact (8 max.)</td>
<td>LV848478</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>“Fault trip” indication contacts (SDE)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Changeover contact (6 A - 240 V)</td>
<td>1 (standard)</td>
</tr>
<tr>
<td>1 additional SDE (6 A - 240 V)</td>
<td>LV848475</td>
</tr>
<tr>
<td>or 1 additional low-level SDE</td>
<td>LV848476</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Programmable contacts (programmed via MicroLogic X control unit)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>2 contacts M2C (5 A - 240 V)</td>
<td>LV848382</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Carriage switches (connected / disconnected / test position)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Changeover contacts (8 A - 240 V)</td>
<td></td>
</tr>
<tr>
<td>1 connected position contact (3 max.)</td>
<td>LV833751</td>
</tr>
<tr>
<td>1 test position contact (3 max.)</td>
<td>LV833752</td>
</tr>
<tr>
<td>1 disconnected position contact (3 max.)</td>
<td>LV833753</td>
</tr>
<tr>
<td>and/or low-level changeover contacts</td>
<td></td>
</tr>
<tr>
<td>1 connected position contact (3 max.)</td>
<td>LV833754</td>
</tr>
<tr>
<td>1 test position contact (3 max.)</td>
<td>LV833755</td>
</tr>
<tr>
<td>1 disconnected position contact (3 max.)</td>
<td>LV833756</td>
</tr>
<tr>
<td>Actuator for additional carriage switches</td>
<td>LV848560</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Auxiliary terminals for chassis alone</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>3 wire terminal (30 parts)</td>
<td>LV847998SP</td>
</tr>
<tr>
<td>6 wire terminal (10 parts)</td>
<td>LV847999SP</td>
</tr>
<tr>
<td>Jumpers (10 parts)</td>
<td>LV847900SP</td>
</tr>
</tbody>
</table>

**Remote operation**

<table>
<thead>
<tr>
<th>“Ready to close” contact (1 max.)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1 changeover contact (5 A - 240 V)</td>
<td>LV848469</td>
</tr>
<tr>
<td>1 low-level changeover contact</td>
<td>LV848470</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electrical closing pushbutton</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1 pushbutton</td>
<td>BPFE</td>
</tr>
<tr>
<td>LV848534</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Remote reset after fault trip</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical reset</td>
<td>RES</td>
</tr>
<tr>
<td>100/130 V AC</td>
<td>LV848472</td>
</tr>
<tr>
<td>200/240 V AC</td>
<td>LV848473</td>
</tr>
<tr>
<td>Automatic reset</td>
<td>RAR</td>
</tr>
<tr>
<td>Adaptation</td>
<td>LV847346</td>
</tr>
</tbody>
</table>
Order your breaker

MTZ2 08 to MTZ3 63 drawout circuit breakers
Remote operation

### Remote ON/OFF

#### Gear motor

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC 50/60 Hz</td>
<td>MCH</td>
</tr>
<tr>
<td>48 V</td>
<td>LV848522</td>
</tr>
<tr>
<td>100/130 V</td>
<td>LV848526</td>
</tr>
<tr>
<td>200/240 V</td>
<td>LV848527</td>
</tr>
<tr>
<td>250/277 V</td>
<td>LV848528</td>
</tr>
<tr>
<td>380/415 V</td>
<td>LV848529</td>
</tr>
<tr>
<td>440/480 V</td>
<td>LV848530</td>
</tr>
<tr>
<td>DC</td>
<td></td>
</tr>
<tr>
<td>24/30 V</td>
<td>LV848521</td>
</tr>
<tr>
<td>48/60 V</td>
<td>LV848522</td>
</tr>
<tr>
<td>100/130 V</td>
<td>LV848523</td>
</tr>
<tr>
<td>200/250 V</td>
<td>LV848524</td>
</tr>
</tbody>
</table>

### Instantaneous voltage releases

#### Standard

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Closing release</th>
<th>Opening release</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC 50/60 Hz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>24/30 V DC, 24 V AC</td>
<td>LV848481</td>
<td>LV848491</td>
</tr>
<tr>
<td>48/60 V DC, 48 V AC</td>
<td>LV848482</td>
<td>LV848492</td>
</tr>
<tr>
<td>100/130 V AC/DC</td>
<td>LV848483</td>
<td>LV848493</td>
</tr>
<tr>
<td>200/250 V AC/DC</td>
<td>LV848484</td>
<td>LV848494</td>
</tr>
<tr>
<td>277 V AC</td>
<td>LV848485</td>
<td>LV848495</td>
</tr>
<tr>
<td>380/480 V AC</td>
<td>LV848486</td>
<td>LV848496</td>
</tr>
</tbody>
</table>

#### Diagnostic & Communicating

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Closing release</th>
<th>Opening release</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC 50/60 Hz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>24/30 V DC, 24 V AC</td>
<td>LV848449</td>
<td>LV848458</td>
</tr>
<tr>
<td>48/60 V DC, 48 V AC</td>
<td>LV848450</td>
<td>LV848459</td>
</tr>
<tr>
<td>100/130 V AC/DC</td>
<td>LV848451</td>
<td>LV848460</td>
</tr>
<tr>
<td>200/250 V AC/DC</td>
<td>LV848452</td>
<td>LV848461</td>
</tr>
<tr>
<td>277 V AC</td>
<td>LV848453</td>
<td>LV848462</td>
</tr>
<tr>
<td>380/480 V AC</td>
<td>LV848454</td>
<td>LV848463</td>
</tr>
</tbody>
</table>

### Remote tripping

#### Instantaneous voltage release

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC 50/60 Hz</td>
<td>2nd MX</td>
</tr>
<tr>
<td>24/30 V DC, 24 V AC</td>
<td>LV848511</td>
</tr>
<tr>
<td>48/60 V DC, 48 V AC</td>
<td>LV848512</td>
</tr>
<tr>
<td>100/130 V AC/DC</td>
<td>LV848513</td>
</tr>
<tr>
<td>200/250 V AC/DC</td>
<td>LV848514</td>
</tr>
<tr>
<td>277 V AC</td>
<td>LV848515</td>
</tr>
<tr>
<td>380/480 V AC</td>
<td>LV848516</td>
</tr>
</tbody>
</table>

#### MN delay unit

<table>
<thead>
<tr>
<th>Voltage</th>
<th>R (non-adjustable)</th>
<th>Rr (adjustable)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC 50/60 Hz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>48/60 V AC/DC</td>
<td>LV833680SP</td>
<td></td>
</tr>
<tr>
<td>100/130 V AC/DC</td>
<td>LV833681SP</td>
<td></td>
</tr>
<tr>
<td>200/250 V AC/DC</td>
<td>LV833682SP</td>
<td></td>
</tr>
<tr>
<td>380/480 V AC/DC</td>
<td>LV833683SP</td>
<td></td>
</tr>
</tbody>
</table>
### Accessories for MTZ2 08 to MTZ3 63 fixed and drawout circuit breakers

#### Circuit breaker locking

<table>
<thead>
<tr>
<th>Pushbutton locking device</th>
<th>By padlocks</th>
<th>LV848536</th>
</tr>
</thead>
</table>

#### OFF position locking

- **By padlocks**
- **VCPO**
  - LV848539

- **By Profalux keylocks**
- Profalux
  - 1 lock with 1 key + adaptation kit: LV848545
  - 2 locks 1 key + adaptation kit: LV848546
  - 2 locks 2 different keys + adaptation kit: LV848547

- **By Ronis keylocks**
- Ronis
  - 1 lock with 1 key + adaptation kit: LV848549
  - 2 locks 1 key + adaptation kit: LV848550
  - 2 locks 2 different keys + adaptation kit: LV848551

- **Adaptation kit**
  - (without keylock):
    - Adaptation kit Profalux / Ronis: LV848541SP
    - Adaptation kit Kirk: LV848542SP
    - Adaptation kit Castell: LV848543SP

#### Cable-type door interlock

- 1 complete assembly for MasterPact MTZ2/MTZ3 fixed or drawout device: LV848614SP

#### Mechanical interlocking for source changeover

##### Interlocking of 2 devices using connecting rods

- Complete assembly with 2 adaptation fixtures + rods: LV847930SP
- 1 set of 2 adaptation fixtures for MasterPact MTZ2 or MTZ3 fixed or drawout device: LV833210SP
- 1 set of 2 interlocking rods: LV833210SP

**Note:** Can be used with 1 MTZ2/3 fixed + 1 MTZ2/3 drawout.

##### Interlocking of 2 devices using cables [1]

- Choose 2 adaptation fixtures (1 for each device) + 1 set of cables
  - LV847926SP
- 1 adaptation fixture for MasterPact MTZ2/3 fixed devices: LV847926SP
- 1 adaptation fixture for MasterPact MTZ2/3 drawout devices: LV847926SP
- 1 set of 2 cables of 2.5 m: LV833209SP

[1] Can be used with any combination of MTZ, fixed or drawout devices.

##### Interlocking of 3 devices using cables

- Choose 1 interlocking kit (including 3 adaptation fixtures + cables)
  - LV848610SP
  - LV848609SP
  - LV848608SP

- 3 sources, only 1 device closed, fixed or drawout devices: LV848610SP
- 2 sources + 1 coupling, fixed or drawout devices: LV848609SP
- 2 normal + 1 replacement source, fixed or drawout devices: LV848608SP

#### Other circuit breaker accessories

**Mechanical operation counter**

- Operation counter CDM: LV848535

**Escutcheon and accessories**

<table>
<thead>
<tr>
<th>Escutcheon</th>
<th>Fixed</th>
<th>Drawout</th>
</tr>
</thead>
<tbody>
<tr>
<td>LV848601SP</td>
<td>LV848603SP</td>
<td></td>
</tr>
<tr>
<td>LV848604SP</td>
<td>LV848605SP</td>
<td></td>
</tr>
</tbody>
</table>

For more informations see source-changeover systems catalogue, LVPED216028EN.
Order your breaker

Accessories for MTZ2 08 to MTZ3 63 fixed and drawout circuit breakers

## Accessories for MicroLogic X control units

### External sensors

<table>
<thead>
<tr>
<th>Sensor rating</th>
<th>LV834033SP</th>
<th>LV834036SP</th>
<th>LV848182SP</th>
<th>LV848904SP</th>
<th>LV849905SP</th>
</tr>
</thead>
<tbody>
<tr>
<td>400/2000 A</td>
<td>4000/4000 A</td>
<td>4000/6300 A</td>
<td>2000/6300 A</td>
<td>2000 A</td>
<td></td>
</tr>
<tr>
<td>Single sensor kit</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 layer bus</td>
<td></td>
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</tbody>
</table>

### Rectangular sensor for earth-leakage protection

<table>
<thead>
<tr>
<th>Sensor rating</th>
<th>LV835573SP</th>
<th>LV835574SP</th>
</tr>
</thead>
<tbody>
<tr>
<td>280 mm x 115 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>470 mm x 160 mm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Source ground return (SGR) earth fault protection

<table>
<thead>
<tr>
<th>External sensor (SGR)</th>
<th>LV833579SP</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDGF summing module</td>
<td>LV848891SP</td>
</tr>
</tbody>
</table>

### Voltage measurement input (for breakers supplied via bottom terminals)

<table>
<thead>
<tr>
<th>Voltage measurement input</th>
<th>LV845706</th>
<th>LV848533</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fixed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drawout</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Voltage power supply module (VPS) for MicroLogic X

<table>
<thead>
<tr>
<th>LV850060</th>
</tr>
</thead>
</table>

### Zone Selective Interlocking option for MicroLogic X

<table>
<thead>
<tr>
<th>ZSI</th>
<th>Standard</th>
</tr>
</thead>
</table>

### External power supply module (AD)

<table>
<thead>
<tr>
<th>24/30 V DC</th>
<th>LV454440</th>
</tr>
</thead>
<tbody>
<tr>
<td>48/60 V DC</td>
<td>LV454441</td>
</tr>
<tr>
<td>100/125 V DC</td>
<td>LV454442</td>
</tr>
<tr>
<td>110/130 V AC</td>
<td>LV454443</td>
</tr>
<tr>
<td>200/240 V AC</td>
<td>LV454444</td>
</tr>
</tbody>
</table>

### Restraint Interface Module - ZSI

<table>
<thead>
<tr>
<th>LV848892SP</th>
</tr>
</thead>
</table>

### Test and commissioning equipment

<table>
<thead>
<tr>
<th>USB Cable (miniUSB/USB) for MicroLogic X</th>
<th>LV850067SP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mobile Powerpack for MicroLogic X (by APC)</td>
<td>LV850055SP</td>
</tr>
</tbody>
</table>

### Special settings

<table>
<thead>
<tr>
<th>Sensor rating to be specified when ordering</th>
<th>MTZ2 08</th>
<th>MTZ2 10</th>
<th>MTZ2 12</th>
<th>MTZ2 16</th>
<th>MTZ2 20</th>
<th>MTZ2 25</th>
<th>MTZ2 32</th>
</tr>
</thead>
<tbody>
<tr>
<td>400</td>
<td></td>
<td></td>
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<tr>
<td>800</td>
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<tr>
<td>1000</td>
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<tr>
<td>1250</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1600</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>2000</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>2500</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3200</td>
<td></td>
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<td></td>
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<td></td>
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<tr>
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<tr>
<td>2500</td>
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<tr>
<td>4000</td>
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<tr>
<td>5000</td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>6300</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
A MasterPact fixed switch-disconnector is described by 3 catalogue numbers corresponding to:

- the basic switch-disconnector
- a top connection
- a bottom connection.

Various auxiliaries and accessories may also be added.

### Basic switch-disconnectors

#### Type NA

<table>
<thead>
<tr>
<th></th>
<th>In (A at 40 °C)</th>
<th>Icm (kA peak for U = 220/690 V)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTZ2 08</td>
<td>800</td>
<td>88</td>
</tr>
<tr>
<td>MTZ2 10</td>
<td>1000</td>
<td>88</td>
</tr>
<tr>
<td>MTZ2 12</td>
<td>1250</td>
<td>88</td>
</tr>
<tr>
<td>MTZ2 16</td>
<td>1600</td>
<td>88</td>
</tr>
</tbody>
</table>

#### Type HA

<table>
<thead>
<tr>
<th></th>
<th>In (A at 40 °C)</th>
<th>Icm (kA peak for U = 220/690 V)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTZ2 08</td>
<td>800</td>
<td>145</td>
</tr>
<tr>
<td>MTZ2 10</td>
<td>1000</td>
<td>145</td>
</tr>
<tr>
<td>MTZ2 12</td>
<td>1250</td>
<td>145</td>
</tr>
<tr>
<td>MTZ2 16</td>
<td>1600</td>
<td>145</td>
</tr>
<tr>
<td>MTZ2 20</td>
<td>2000</td>
<td>145</td>
</tr>
<tr>
<td>MTZ2 25</td>
<td>2500</td>
<td>145</td>
</tr>
<tr>
<td>MTZ2 32</td>
<td>3200</td>
<td>145</td>
</tr>
<tr>
<td>MTZ2 40</td>
<td>4000</td>
<td>145</td>
</tr>
<tr>
<td>MTZ2 50</td>
<td>5000</td>
<td>187</td>
</tr>
<tr>
<td>MTZ2 63</td>
<td>6300</td>
<td>187</td>
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</tbody>
</table>

#### Type HF

<table>
<thead>
<tr>
<th></th>
<th>In (A at 40 °C)</th>
<th>Icm (kA peak for U = 220/690 V)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTZ2 08</td>
<td>800</td>
<td>187</td>
</tr>
<tr>
<td>MTZ2 10</td>
<td>1000</td>
<td>187</td>
</tr>
<tr>
<td>MTZ2 12</td>
<td>1250</td>
<td>187</td>
</tr>
<tr>
<td>MTZ2 16</td>
<td>1600</td>
<td>187</td>
</tr>
<tr>
<td>MTZ2 20</td>
<td>2000</td>
<td>187</td>
</tr>
<tr>
<td>MTZ2 25</td>
<td>2500</td>
<td>187</td>
</tr>
<tr>
<td>MTZ2 32</td>
<td>3200</td>
<td>187</td>
</tr>
<tr>
<td>MTZ2 40</td>
<td>4000</td>
<td>187</td>
</tr>
</tbody>
</table>

#### Type HH

<table>
<thead>
<tr>
<th></th>
<th>In (A at 40 °C)</th>
<th>Icm (kA peak for U = 220/440 V)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTZ2 20</td>
<td>2000</td>
<td>220</td>
</tr>
<tr>
<td>MTZ2 25</td>
<td>2500</td>
<td>220</td>
</tr>
<tr>
<td>MTZ2 32</td>
<td>3200</td>
<td>220</td>
</tr>
<tr>
<td>MTZ2 40</td>
<td>4000</td>
<td>220</td>
</tr>
</tbody>
</table>

#### Type HH with right neutral

<table>
<thead>
<tr>
<th></th>
<th>In (A at 40 °C)</th>
<th>Icm (kA peak for U = 220/440 V)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTZ2 20</td>
<td>2000</td>
<td>220</td>
</tr>
<tr>
<td>MTZ2 25</td>
<td>2500</td>
<td>220</td>
</tr>
<tr>
<td>MTZ2 32</td>
<td>3200</td>
<td>220</td>
</tr>
<tr>
<td>MTZ2 40</td>
<td>4000</td>
<td>220</td>
</tr>
</tbody>
</table>

---

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Order your breaker
## MTZ2 08 to MTZ3 63 fixed switch-disconnectors

### Connections

#### Front connection

<table>
<thead>
<tr>
<th>Current Range</th>
<th>Top</th>
<th>3P</th>
<th>4P</th>
<th>Bottom</th>
<th>3P</th>
<th>4P</th>
</tr>
</thead>
<tbody>
<tr>
<td>800-1600 A</td>
<td>LV848129</td>
<td>LV848153</td>
<td>LV848129</td>
<td>LV848153</td>
<td>LV848130</td>
<td>LV848155</td>
</tr>
<tr>
<td>2000 A</td>
<td>LV848124</td>
<td>LV848126</td>
<td>LV848124</td>
<td>LV848126</td>
<td>LV848125</td>
<td>LV848127</td>
</tr>
<tr>
<td>2500-3200 A</td>
<td>LV848129</td>
<td>LV848154</td>
<td>LV848129</td>
<td>LV848154</td>
<td>LV848131</td>
<td>LV848156</td>
</tr>
</tbody>
</table>

#### Front connection accessories

<table>
<thead>
<tr>
<th>Current Range</th>
<th>3P</th>
<th>4P</th>
</tr>
</thead>
<tbody>
<tr>
<td>1600 A</td>
<td>LV848421SP</td>
<td>LV848424SP</td>
</tr>
<tr>
<td>2000/3200 A</td>
<td>LV848422SP</td>
<td>LV848425SP</td>
</tr>
</tbody>
</table>

#### Rear connection

<table>
<thead>
<tr>
<th>Current Range</th>
<th>Top</th>
<th>3P</th>
<th>4P</th>
<th>Bottom</th>
<th>3P</th>
<th>4P</th>
</tr>
</thead>
<tbody>
<tr>
<td>800-2000 A</td>
<td>LV848133</td>
<td>LV848158</td>
<td>LV848133</td>
<td>LV848158</td>
<td>LV848138</td>
<td>LV848163</td>
</tr>
<tr>
<td>2500-3200 A</td>
<td>LV848134</td>
<td>LV848159</td>
<td>LV848134</td>
<td>LV848159</td>
<td>LV848139</td>
<td>LV848164</td>
</tr>
<tr>
<td>4000 A</td>
<td>LV848135</td>
<td>LV848160</td>
<td>LV848135</td>
<td>LV848160</td>
<td>LV848140</td>
<td>LV848165</td>
</tr>
<tr>
<td>4000/5000 A</td>
<td>LV848136</td>
<td>LV848161</td>
<td>LV848136</td>
<td>LV848161</td>
<td>LV848141</td>
<td>LV848166</td>
</tr>
<tr>
<td>6300 A</td>
<td>LV848137</td>
<td>LV848162</td>
<td>LV848137</td>
<td>LV848162</td>
<td>LV848142</td>
<td>LV848167</td>
</tr>
</tbody>
</table>

#### Horizontal connection

<table>
<thead>
<tr>
<th>Current Range</th>
<th>Top</th>
<th>3P</th>
<th>4P</th>
<th>Bottom</th>
<th>3P</th>
<th>4P</th>
</tr>
</thead>
<tbody>
<tr>
<td>800-2000 A</td>
<td>LV848143</td>
<td>LV848168</td>
<td>LV848143</td>
<td>LV848168</td>
<td>LV848148</td>
<td>LV848173</td>
</tr>
<tr>
<td>2500-3200 A</td>
<td>LV848144</td>
<td>LV848169</td>
<td>LV848144</td>
<td>LV848169</td>
<td>LV848149</td>
<td>LV848174</td>
</tr>
<tr>
<td>4000 A</td>
<td>LV848145</td>
<td>LV848170</td>
<td>LV848145</td>
<td>LV848170</td>
<td>LV848150</td>
<td>LV848175</td>
</tr>
<tr>
<td>4000/5000 A</td>
<td>LV848146</td>
<td>LV848171</td>
<td>LV848146</td>
<td>LV848171</td>
<td>LV848151</td>
<td>LV848176</td>
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</tbody>
</table>

#### Rear connection accessories

<table>
<thead>
<tr>
<th>Current Range</th>
<th>Top</th>
<th>3P</th>
<th>4P</th>
<th>Bottom</th>
<th>3P</th>
<th>4P</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interphase barriers [1]</td>
<td>LV848599SP</td>
<td>LV848599SP</td>
<td>LV848599SP</td>
<td>LV848599SP</td>
<td>LV848599SP</td>
<td>LV848599SP</td>
</tr>
</tbody>
</table>

[1] The same kit covers the top and the bottom connections on the same time.

#### Brackets for mounting on a backplate

<table>
<thead>
<tr>
<th>Current Range</th>
<th>Top</th>
<th>3P</th>
<th>4P</th>
<th>Bottom</th>
<th>3P</th>
<th>4P</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 parts</td>
<td>LV847829</td>
<td>LV847829</td>
<td>LV847829</td>
<td>LV847829</td>
<td>LV847829</td>
<td>LV847829</td>
</tr>
</tbody>
</table>
A MasterPact drawout switch-disconnector is described by minimum 4 catalogue numbers corresponding to:
- the basic switch-disconnector
- a chassis with standard terminal blocks
- a top connection
- a bottom connection.
Various auxiliaries and accessories may also be added.

### Basic switch-disconnector

<table>
<thead>
<tr>
<th>Type</th>
<th>3P</th>
<th>4P</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type NA</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MTZ2 08</td>
<td>800</td>
<td>88</td>
</tr>
<tr>
<td>MTZ2 10</td>
<td>1000</td>
<td>88</td>
</tr>
<tr>
<td>MTZ2 12</td>
<td>1250</td>
<td>88</td>
</tr>
<tr>
<td>MTZ2 16</td>
<td>1600</td>
<td>88</td>
</tr>
</tbody>
</table>

### Type HA

<table>
<thead>
<tr>
<th><strong>In (A at 40 °C) Icm (kA peak for U = 220/690 V)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>MTZ2 08</td>
</tr>
<tr>
<td>MTZ2 10</td>
</tr>
<tr>
<td>MTZ2 12</td>
</tr>
<tr>
<td>MTZ2 16</td>
</tr>
<tr>
<td>MTZ2 20</td>
</tr>
<tr>
<td>MTZ2 25</td>
</tr>
<tr>
<td>MTZ2 32</td>
</tr>
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<td>MTZ2 40</td>
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<tr>
<td>MTZ3 40</td>
</tr>
<tr>
<td>MTZ3 50</td>
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<tr>
<td>MTZ3 63</td>
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</table>

### Type HF

<table>
<thead>
<tr>
<th><strong>In (A at 40 °C) Icm (kA peak for U = 220/690 V)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>MTZ2 08</td>
</tr>
<tr>
<td>MTZ2 10</td>
</tr>
<tr>
<td>MTZ2 12</td>
</tr>
<tr>
<td>MTZ2 16</td>
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<td>MTZ2 20</td>
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<td>MTZ2 25</td>
</tr>
<tr>
<td>MTZ2 32</td>
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<td>MTZ2 40</td>
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</tbody>
</table>

### Type HH

<table>
<thead>
<tr>
<th><strong>In (A at 40 °C) Icm (kA peak for U = 220/440 V)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>MTZ2 20</td>
</tr>
<tr>
<td>MTZ2 25</td>
</tr>
<tr>
<td>MTZ2 32</td>
</tr>
<tr>
<td>MTZ2 40</td>
</tr>
</tbody>
</table>

### Type HH with right neutral

<table>
<thead>
<tr>
<th><strong>In (A at 40 °C) Icm (kA peak for U = 220/440 V)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>MTZ2 20</td>
</tr>
<tr>
<td>MTZ2 25</td>
</tr>
</tbody>
</table>

### Chassis

<table>
<thead>
<tr>
<th><strong>Type NA/HA/HF</strong></th>
<th>3P</th>
<th>4P</th>
</tr>
</thead>
<tbody>
<tr>
<td>800-1600 A</td>
<td>LV848392</td>
<td>LV848404</td>
</tr>
<tr>
<td><strong>Type HA/HF/HH</strong></td>
<td>3P</td>
<td>4P</td>
</tr>
<tr>
<td>2000 A</td>
<td>LV848393</td>
<td>LV848405</td>
</tr>
<tr>
<td>2500 A</td>
<td>LV848394</td>
<td>LV848406</td>
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<td>3200 A</td>
<td>LV848395</td>
<td>LV848407</td>
</tr>
<tr>
<td>4000 A</td>
<td>LV848396</td>
<td>LV848408</td>
</tr>
<tr>
<td><strong>Type HA</strong></td>
<td>3P</td>
<td>4P</td>
</tr>
<tr>
<td>4000/8300 A (MTZ3)</td>
<td>LV848397</td>
<td>LV848409</td>
</tr>
</tbody>
</table>
MTZ2 08 to MTZ3 63 drawout switch-disconnectors

Switch-disconnectors

Chassis terminal blocks

<table>
<thead>
<tr>
<th>Standard terminal blocks</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Each chassis comes equipped in standard with the terminal blocks corresponding to the customer functions below:</td>
<td></td>
</tr>
<tr>
<td>■ the basic device: OF1, OF2, OF3, OF4, SDE1, UC3 (UC3 for 3P chassis only, not for 4P)</td>
<td></td>
</tr>
<tr>
<td>■ the MicroLogic control unit: UC1, UC2</td>
<td></td>
</tr>
<tr>
<td>■ the 5 most common accessories: MN/MX2, MX1, XF, PF, MCH</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Additional terminal blocks</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>If the device is equipped with one or a combination of the following 5 additional accessories:</td>
<td></td>
</tr>
<tr>
<td>■ SDE2/RES</td>
<td></td>
</tr>
<tr>
<td>■ M2C/ESM</td>
<td></td>
</tr>
<tr>
<td>■ PTE</td>
<td></td>
</tr>
<tr>
<td>■ 1st additional 4 OF block</td>
<td></td>
</tr>
<tr>
<td>■ 2nd additional 4 OF block</td>
<td></td>
</tr>
<tr>
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<tr>
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<td>Chassis terminal blocks for PTE + 4 OF contacts</td>
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</tr>
<tr>
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<td>LV839477</td>
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<tr>
<td>Chassis terminal blocks for SDE2/RES + 4 OF contacts</td>
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</tr>
<tr>
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</tr>
<tr>
<td>Chassis terminal blocks for PTE + SDE2/RES + 8 OF contacts</td>
<td>LV839480</td>
</tr>
<tr>
<td>Chassis terminal blocks for PTE + SDE2/RES + 4 OF contacts</td>
<td>LV839481</td>
</tr>
<tr>
<td>Chassis terminal block for M2C/ESM</td>
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</tr>
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<td>Chassis terminal blocks for M2C/ESM + 8 OF contacts</td>
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<tr>
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### MTZ2 08 to MTZ3 63 drawout switch-disconnectors

#### Connections

##### Chassis front connection

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<th>Current</th>
<th>Type</th>
<th>Top</th>
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<td>800-1600 A</td>
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<td>LV848420</td>
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<td>2500/3200 A</td>
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<td>LV848442</td>
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##### Chassis rear connection

**Vertical connection**

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<tr>
<td>800-2000 A</td>
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<td>LV848158</td>
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<td>Bottom</td>
<td>LV848138</td>
<td>LV848163</td>
</tr>
<tr>
<td>2500/3200 A</td>
<td>Top</td>
<td>LV848134</td>
<td>LV848159</td>
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<td>Bottom</td>
<td>LV848139</td>
<td>LV848164</td>
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<tr>
<td>4000 A</td>
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<td>LV848135</td>
<td>LV848160</td>
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<td>LV848140</td>
<td>LV848165</td>
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<td>LV848166</td>
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</thead>
<tbody>
<tr>
<td>800-2000 A</td>
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<td>LV848148</td>
<td>LV848173</td>
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<td>Top</td>
<td>LV848144</td>
<td>LV848169</td>
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<td>LV848149</td>
<td>LV848174</td>
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<td>Bottom</td>
<td>LV848150</td>
<td>LV848175</td>
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<td>LV848151</td>
<td>LV848176</td>
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##### Rear connection accessories

- **Interphase barriers**

  - 3P/4P (3 parts) | LV848600SP

  [1] The same kit covers the top and the bottom connections on the same time.
Order your breaker

MTZ2 08 to MTZ3 63 circuit breakers with neutral on the right

Fixed circuit breakers

A 4 pole MasterPact circuit breaker with neutral on the right is described by the same catalogue numbers as a standard 4 pole one, except for the basic circuit breaker, which is specific.

### Fixed circuit breakers with neutral on the right

#### Type H1

<table>
<thead>
<tr>
<th>MTZ2</th>
<th>In (A at 40 °C)</th>
<th>Icu (kA for U = 220/440 V)</th>
<th>Ics = 100 % Icu</th>
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</thead>
<tbody>
<tr>
<td>08</td>
<td>800</td>
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<tr>
<td>10</td>
<td>1000</td>
<td>66</td>
<td>LV848184</td>
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<tr>
<td>12</td>
<td>1250</td>
<td>66</td>
<td>LV848185</td>
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<td>66</td>
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<td>2500</td>
<td>66</td>
<td>LV848073</td>
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<td>32</td>
<td>3200</td>
<td>66</td>
<td>LV848187</td>
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<tr>
<td>40</td>
<td>4000</td>
<td>66</td>
<td>LV848193</td>
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<td>63</td>
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#### Type H2

<table>
<thead>
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<th>Icu (kA for U = 220/440 V)</th>
<th>Ics = 100 % Icu</th>
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</thead>
<tbody>
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#### Type H2V

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<td>LV846203</td>
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<tr>
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<td>2000</td>
<td>100</td>
<td>LV846204</td>
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A 4 pole MasterPact circuit breaker with neutral on the right is described by the same catalogue numbers as a standard 4 pole one, except for the basic circuit breaker, which is specific.

## MTZ2 08 to MTZ3 63 circuit breakers with neutral on the right

### Drawout circuit breakers with neutral on the right

<table>
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<td>LV848228</td>
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</table>
A MasterPact 1150 V AC fixed switch-disconnector is described by 3 catalogue numbers corresponding to:
- the basic switch-disconnector
- a top connection
- a bottom connection.
Various auxiliaries and accessories may also be added.

| MTZ2 08 | 800 | 105 | LV847260 | LV847270 |
| MTZ2 10 | 1000 | 105 | LV847261 | LV847271 |
| MTZ2 12 | 1250 | 105 | LV847262 | LV847272 |
| MTZ2 16 | 1600 | 105 | LV847263 | LV847273 |
| MTZ2 20 | 2000 | 105 | LV847264 | LV847274 |
| MTZ2 25 | 2500 | 105 | LV847265 | LV847275 |
| MTZ2 32 | 3200 | 105 | LV847266 | LV847276 |
| MTZ2 40 | 4000 | 105 | LV847267 | LV847277 |

Note: the use of the interphase barriers LV848600SP is compulsory with the MTZ2 HA10 fixed version switch-disconnectors.
# Rear connection

## Vertical connection

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<thead>
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<th>Top Connection</th>
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<th>4P</th>
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<tbody>
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<td>LV848158</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LV848138</td>
<td>LV848163</td>
<td></td>
</tr>
<tr>
<td>2500/3200 A</td>
<td>LV848134</td>
<td>LV848159</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LV848139</td>
<td>LV848164</td>
<td></td>
</tr>
<tr>
<td>4000 A</td>
<td>LV848135</td>
<td>LV848160</td>
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## Horizontal connection

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<th>4P</th>
</tr>
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<td>LV848168</td>
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<td>LV848144</td>
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<td>LV848149</td>
<td>LV848174</td>
<td></td>
</tr>
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<tr>
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<td>LV848175</td>
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## Rear connection accessories

- **Interphase barriers**
  - 3P/4P (3 parts) LV848600SP

[1] The same kit covers the top and the bottom connections on the same time.
A MasterPact 1150 V AC 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 H10</th>
<th>3P</th>
<th>4P</th>
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<tbody>
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<td>1000</td>
<td>50</td>
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<tr>
<td>MTZ2 12</td>
<td>1250</td>
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<td>MTZ2 40</td>
<td>4000</td>
<td>50</td>
</tr>
</tbody>
</table>

| MTZ2 08 to MTZ2 40 - 1150 V AC Drawout circuit breakers and switch-disconnectors |

<table>
<thead>
<tr>
<th>MicroLogic X control unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>“Class1 IEC 61557-12 certified power meter”</td>
</tr>
<tr>
<td>3P/4P</td>
</tr>
<tr>
<td>MicroLogic 2.0 X basic protection</td>
</tr>
<tr>
<td>MicroLogic 5.0 X selective protection</td>
</tr>
<tr>
<td>MicroLogic 6.0 X selective + earth-fault protection</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Digital modules option</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy per phase</td>
</tr>
<tr>
<td>Waveform capture trip event</td>
</tr>
<tr>
<td>Power restoration assistant</td>
</tr>
<tr>
<td>MasterPact operation assistant</td>
</tr>
<tr>
<td>Individual harmonics analysis</td>
</tr>
<tr>
<td>ANSI 51N/51G - Ground fault Alarm</td>
</tr>
<tr>
<td>ERMS - Energy Reducing Maintenance Settings</td>
</tr>
<tr>
<td>ANSI 32P - Reverse active power protection</td>
</tr>
<tr>
<td>ANSI 27/59 - Under/Over voltage protection</td>
</tr>
<tr>
<td>ANSI 67 - Directional overcurrent</td>
</tr>
<tr>
<td>ANSI 81 - Under/Over frequency protection</td>
</tr>
<tr>
<td>Modbus legacy dataset</td>
</tr>
<tr>
<td>IEC 61850 for MasterPact MTZ</td>
</tr>
</tbody>
</table>

A MasterPact 1150 V AC drawout switch-disconnector is described by 4 catalogue numbers corresponding to:
- the basic switch-disconnector
- a chassis
- a top connection
- a bottom connection.
A communication option and various auxiliaries and accessories may also be added.

### Basic switch-disconnector

<table>
<thead>
<tr>
<th>Type HA10</th>
<th>3P</th>
<th>4P</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTZ2 08</td>
<td>800</td>
<td>105</td>
</tr>
<tr>
<td>MTZ2 10</td>
<td>1000</td>
<td>105</td>
</tr>
<tr>
<td>MTZ2 12</td>
<td>1250</td>
<td>105</td>
</tr>
<tr>
<td>MTZ2 16</td>
<td>1600</td>
<td>105</td>
</tr>
<tr>
<td>MTZ2 20</td>
<td>2000</td>
<td>105</td>
</tr>
<tr>
<td>MTZ2 25</td>
<td>2500</td>
<td>105</td>
</tr>
<tr>
<td>MTZ2 32</td>
<td>3200</td>
<td>105</td>
</tr>
<tr>
<td>MTZ2 40</td>
<td>4000</td>
<td>105</td>
</tr>
</tbody>
</table>
MTZ2 08 to MTZ2 40 - 1150 V AC
Drawout circuit breakers and switch-disconnectors
Chassis and connections

### Chassis

<table>
<thead>
<tr>
<th>For type H10 and HA10</th>
<th>3P</th>
<th>4P</th>
</tr>
</thead>
<tbody>
<tr>
<td>800-1600 A</td>
<td>LV848392</td>
<td>LV848404</td>
</tr>
<tr>
<td>2000 A</td>
<td>LV848393</td>
<td>LV848405</td>
</tr>
<tr>
<td>2500 A</td>
<td>LV848394</td>
<td>LV848406</td>
</tr>
<tr>
<td>3200 A</td>
<td>LV848395</td>
<td>LV848407</td>
</tr>
<tr>
<td>4000 A</td>
<td>LV848396</td>
<td>LV848408</td>
</tr>
</tbody>
</table>

### Chassis terminal blocks

#### Standard terminal blocks

Each chassis comes equipped in standard with the terminal blocks corresponding to the customer functions below:
- the basic device : OF1, OF2, OF3, OF4, SDE1, UC3 (UC3 for 3P chassis only, not for 4P)
- the MicroLogic control unit : UC1, UC2
- the 5 most common accessories : MN/MX2, MX1, XF, PF, MCH.

#### Additional terminal blocks

If the device is equipped with one or a combination of the following 5 additional accessories:
- SDE2/RES
- M2C/ESM
- PTE
- 1st additionnal 4 OF block
- 2nd additionnal 4 OF block

All the necessary chassis terminal blocks are coded by one of the part numbers below:

- Chassis terminal blocks for 8 OF contacts: LV839471
- Chassis terminal blocks for 4 OF contacts: LV839472
- Chassis terminal block for PTE: LV839473
- Chassis terminal blocks for PTE + 8 OF contacts: LV839474
- Chassis terminal blocks for PTE + 4 OF contacts: LV839475
- Chassis terminal block for SDE2/RES: LV839476
- Chassis terminal blocks for SDE2/RES + 8 OF contacts: LV839477
- Chassis terminal blocks for SDE2/RES + 4 OF contacts: LV839478
- Chassis terminal blocks for PTE + SDE2/RES: LV839479
- Chassis terminal blocks for PTE + SDE2/RES + 8 OF contacts: LV839480
- Chassis terminal blocks for PTE + SDE2/RES + 4 OF contacts: LV839481
- Chassis terminal block for M2C/ESM: LV839482
- Chassis terminal blocks for M2C/ESM + 8 OF contacts: LV839483
- Chassis terminal blocks for M2C/ESM + 4 OF contacts: LV839484
- Chassis terminal blocks for PTE + M2C/ESM: LV839485
- Chassis terminal blocks for PTE + M2C/ESM + 8 OF contacts: LV839486
- Chassis terminal blocks for PTE + M2C/ESM + 4 OF contacts: LV839487
- Chassis terminal blocks for SDE2/RES + M2C/ESM: LV839488
- Chassis terminal blocks for SDE2/RES + M2C/ESM + 8 OF contacts: LV839489
- Chassis terminal blocks for SDE2/RES + M2C/ESM + 4 OF contacts: LV839490
- Chassis terminal blocks for PTE + SDE2/RES + M2C/ESM: LV839491
- Chassis terminal blocks for PTE + SDE2/RES + M2C/ESM + 8 OF contacts: LV839492
- Chassis terminal blocks for PTE + SDE2/RES + M2C/ESM + 4 OF contacts: LV839493
Order your breaker

MTZ2 08 to MTZ2 40 - 1150 V AC
Drawout circuit breakers and switch-disconnectors
Chassis and connections

<table>
<thead>
<tr>
<th>Communication option</th>
<th>[1]</th>
</tr>
</thead>
<tbody>
<tr>
<td>ULP port</td>
<td>Standard</td>
</tr>
<tr>
<td>EIFE Embedded Ethernet interface for LV breaker</td>
<td>LV851200</td>
</tr>
<tr>
<td>IFM Modbus interface</td>
<td>LV434000</td>
</tr>
<tr>
<td>IFE Ethernet interface for LV breaker</td>
<td>LV434001</td>
</tr>
<tr>
<td>Ethernet interface for LV breakers and gateway</td>
<td>LV434002</td>
</tr>
<tr>
<td>I/O application module</td>
<td>LV434063</td>
</tr>
</tbody>
</table>


<table>
<thead>
<tr>
<th>Chassis rear connection</th>
<th>3P</th>
<th>4P</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Vertical connection</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>800-2000 A</td>
<td>Top</td>
<td>LV848133</td>
</tr>
<tr>
<td></td>
<td>Bottom</td>
<td>LV848138</td>
</tr>
<tr>
<td>2500/3200 A</td>
<td>Top</td>
<td>LV848134</td>
</tr>
<tr>
<td></td>
<td>Bottom</td>
<td>LV848139</td>
</tr>
<tr>
<td>4000 A</td>
<td>Top</td>
<td>LV848135</td>
</tr>
<tr>
<td></td>
<td>Bottom</td>
<td>LV848140</td>
</tr>
<tr>
<td><strong>Horizontal connection</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>800-2000 A</td>
<td>Top</td>
<td>LV848143</td>
</tr>
<tr>
<td></td>
<td>Bottom</td>
<td>LV848148</td>
</tr>
<tr>
<td>2500/3200 A</td>
<td>Top</td>
<td>LV848144</td>
</tr>
<tr>
<td></td>
<td>Bottom</td>
<td>LV848149</td>
</tr>
<tr>
<td>4000 A</td>
<td>Top</td>
<td>LV848145</td>
</tr>
<tr>
<td></td>
<td>Bottom</td>
<td>LV848150</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Rear connection accessories</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Interphase barriers</strong> [1]</td>
<td></td>
</tr>
<tr>
<td>3P/4P (3 parts)</td>
<td>LV848600SP</td>
</tr>
</tbody>
</table>

[1] The same kit covers the top and the bottom connections on the same time.
## Connection

### Fixed circuit breakers

<table>
<thead>
<tr>
<th>Connection</th>
<th>3P</th>
<th>4P</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front connection / Replacement kit (3 or 4 parts)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Top or bottom 630-1600 A</td>
<td>LV847069SP</td>
<td>LV847070SP</td>
</tr>
</tbody>
</table>

### Rear connection (vertical or horizontal mounting) / Replacement kit (3 or 4 parts)

<table>
<thead>
<tr>
<th>Connection</th>
<th>3P</th>
<th>4P</th>
</tr>
</thead>
<tbody>
<tr>
<td>630-1600 A</td>
<td>LV833584SP</td>
<td>LV833585SP</td>
</tr>
</tbody>
</table>

### Drawout circuit breakers

<table>
<thead>
<tr>
<th>Connection</th>
<th>3P</th>
<th>4P</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front connection / Replacement kit (6 or 8 parts)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Top and bottom 630-1600 A</td>
<td>LV833588SP</td>
<td>LV833589SP</td>
</tr>
</tbody>
</table>

### Rear connection (vertical or horizontal mounting) / Replacement kit (3 or 4 parts)

<table>
<thead>
<tr>
<th>Connection</th>
<th>3P</th>
<th>4P</th>
</tr>
</thead>
<tbody>
<tr>
<td>630-1600 A</td>
<td>LV833586SP</td>
<td>LV833587SP</td>
</tr>
</tbody>
</table>

### Connection accessories

<table>
<thead>
<tr>
<th>Connection</th>
<th>3P</th>
<th>4P</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vertical connection adapters 630-1600 A / Replacement kit (3 or 4 parts)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>For fixed and drawout front-connected circuit breakers</td>
<td>LV833642SP</td>
<td>LV833643SP</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Connection</th>
<th>3P</th>
<th>4P</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cable lug adapters 630-1600 A / Replacement kit (3 or 4 parts)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>For fixed and drawout front-connected circuit breakers</td>
<td>LV833644SP</td>
<td>LV833645SP</td>
</tr>
<tr>
<td>Threaded rod + spacers for securing the cable lug adapters</td>
<td>04691</td>
<td>04691</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Connection</th>
<th>3P</th>
<th>4P</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spreaders / Replacement kit 630-1600 A (3 or 4 parts)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>For fixed and drawout front and rear-connected circuit breakers</td>
<td>LV833622SP</td>
<td>LV833623SP</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Connection</th>
<th>3P</th>
<th>4P</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interphase barriers / Replacement kit (3 or 4 parts)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>For fixed front and rear-connected circuit breakers [1]</td>
<td>LV833648SP</td>
<td>LV833648SP</td>
</tr>
<tr>
<td>For drawout rear-connected circuit breakers [2]</td>
<td>LV833768SP</td>
<td>LV833768SP</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Connection</th>
<th>3P</th>
<th>4P</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arc chute screen (1 part)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>For fixed front-connected circuit breakers</td>
<td>LV847335SP</td>
<td>LV847336SP</td>
</tr>
</tbody>
</table>

---

[1] Take 2 kits: 1 for the top, 1 for the bottom connections.

[2] The same kit covers the top and the bottom connections on the same time.
## Replacement parts for MicroLogic X control units

<table>
<thead>
<tr>
<th>MicroLogic X embedded display (EHMI)</th>
</tr>
</thead>
</table>
| MicroLogic X embedded display & wireless card | LV850054SP  

<table>
<thead>
<tr>
<th>MicroLogic Battery + Transparent cover</th>
</tr>
</thead>
</table>
| Battery (1 part) | LV833593SP  
| Transparent Cover (1 part) For MicroLogic X | LV850053SP  

<table>
<thead>
<tr>
<th>Voltage power supply module (VPS) for MicroLogic X</th>
</tr>
</thead>
</table>
| Voltage power supply module (VPS) for MicroLogic X | LV850060SP  

## Communication option

| EIFE | Embedded Ethernet interface for LV breaker | LV851100SP  
| IFM | Modbus interface | LV434000  
| IFE | Ethernet interface LV breaker | LV434001  
| | Ethernet interface for LV breakers and gateway | LV434002  
| I/O application module | LV434063  
| Microswitches for MTZ1 | LV847906SP  

## Accessories

### External sensors

<table>
<thead>
<tr>
<th>External sensor for earth-fault protection (TCE) / 1 part</th>
</tr>
</thead>
</table>
| Sensor rating 400/1600 A | LV833576SP  

<table>
<thead>
<tr>
<th>Source ground return (SGR) earth-fault protection / 1 part</th>
</tr>
</thead>
</table>
| External sensor (SGR) | LV833579SP  
| MDGF summing module | LV848891SP  

### Rectangular sensor for earth-leakage protection + Vigi cable / 1 part (up to 3200 A)

| 280 mm x 115 mm | LV833573SP  

### External power supply module (AD) / 1 part

| 24-30 V DC | LV454440  
| 48-60 V DC | LV454441  
| 100-125 V DC | LV454442  
| 110-130 V AC | LV454443  
| 200-240 V AC | LV454444  

### USB Cable (miniUSB/USB) for MicroLogic X / 1 part

| USB Cable (miniUSB/USB) for MicroLogic X / 1 part | LV850067SP  

### Mobile Powerpack for MicroLogic X (by APC) / 1 part

| Mobile Powerpack for MicroLogic X (by APC) / 1 part | LV850055SP  

---

Order your breaker: spare parts

MasterPact MTZ1

MicroLogic X control unit, communication option, accessories

[www.se.com](http://www.se.com)
### Remote operation

#### Gear motor

<table>
<thead>
<tr>
<th>MCH (1 part)</th>
<th>48 V</th>
<th>LV833186SP</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC 50/60 Hz</td>
<td>100/130 V</td>
<td>LV833176SP</td>
</tr>
<tr>
<td></td>
<td>200/240 V</td>
<td>LV833177SP</td>
</tr>
<tr>
<td></td>
<td>277/415 V</td>
<td>LV833179SP</td>
</tr>
<tr>
<td></td>
<td>440/480 V</td>
<td>LV833179SP</td>
</tr>
<tr>
<td>* resistor</td>
<td></td>
<td>LV833193SP</td>
</tr>
<tr>
<td>DC</td>
<td>24/30 V</td>
<td>LV833185SP</td>
</tr>
<tr>
<td></td>
<td>48/60 V</td>
<td>LV833186SP</td>
</tr>
<tr>
<td></td>
<td>100/125 V</td>
<td>LV833187SP</td>
</tr>
<tr>
<td></td>
<td>200/250 V</td>
<td>LV833188SP</td>
</tr>
</tbody>
</table>

**Remote operation**

**Terminal block (1 part)**

- For fixed circuit breaker: LV847074SP
- For drawout circuit breaker (if necessary): LV833098SP

#### Closing and opening release (XF or MX)

**Standard coil (1 part)**

<table>
<thead>
<tr>
<th>AC 50/60 Hz</th>
<th>24/30 V DC, 24 V AC</th>
<th>LV833659SP</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC</td>
<td>48/60 V DC, 48 V AC</td>
<td>LV833660SP</td>
</tr>
<tr>
<td></td>
<td>100/130 V AC/DC</td>
<td>LV833661SP</td>
</tr>
<tr>
<td></td>
<td>200/250 V AC/DC</td>
<td>LV833662SP</td>
</tr>
<tr>
<td></td>
<td>277 V AC</td>
<td>LV833663SP</td>
</tr>
<tr>
<td></td>
<td>380/480 V AC</td>
<td>LV833664SP</td>
</tr>
</tbody>
</table>

**Diagnostics & Communicating coil (1 part)**

<table>
<thead>
<tr>
<th>AC 50/60 Hz</th>
<th>24/30 V DC, 24 V AC</th>
<th>LV833033SP</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC</td>
<td>48/60 V DC, 48 V AC</td>
<td>LV833034SP</td>
</tr>
<tr>
<td></td>
<td>100/130 V AC/DC</td>
<td>LV833035SP</td>
</tr>
<tr>
<td></td>
<td>200/250 V AC/DC</td>
<td>LV833036SP</td>
</tr>
<tr>
<td></td>
<td>277 V AC</td>
<td>LV833037SP</td>
</tr>
<tr>
<td></td>
<td>380/480 V AC</td>
<td>LV833038SP</td>
</tr>
</tbody>
</table>

**Terminal block (1 part)**

- For fixed circuit breaker: LV847074SP
- For drawout circuit breaker (if necessary): LV833098SP

#### Undervoltage release MN

**Undervoltage release (1 part)**

<table>
<thead>
<tr>
<th>AC 50/60 Hz</th>
<th>24/30 V DC, 24 V AC</th>
<th>LV833668SP</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC</td>
<td>48/60 V DC, 48 V AC</td>
<td>LV833669SP</td>
</tr>
<tr>
<td></td>
<td>100/130 V AC/DC</td>
<td>LV833670SP</td>
</tr>
<tr>
<td></td>
<td>200/250 V AC/DC</td>
<td>LV833671SP</td>
</tr>
<tr>
<td></td>
<td>380/480 V AC</td>
<td>LV833673SP</td>
</tr>
</tbody>
</table>

**Diagnostics coil (1 part)**

<table>
<thead>
<tr>
<th>AC 50/60 Hz</th>
<th>24/30 V DC, 24 V AC</th>
<th>LV833666SP</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC</td>
<td>48/60 V DC, 48 V AC</td>
<td>LV833667SP</td>
</tr>
<tr>
<td></td>
<td>100/130 V AC/DC</td>
<td>LV833670SP</td>
</tr>
<tr>
<td></td>
<td>200/250 V AC/DC</td>
<td>LV833671SP</td>
</tr>
<tr>
<td></td>
<td>380/480 V AC</td>
<td>LV833673SP</td>
</tr>
</tbody>
</table>

**Terminal block (1 part)**

- For fixed circuit breaker: LV847074SP
- For drawout circuit breaker (if necessary): LV833098SP

#### Voltage releases securing fixture

**Voltage releases securing fixture for MX/XF/MN**

LV847093SP

#### MN delay unit

**MN delay unit (1 part)**

<table>
<thead>
<tr>
<th>AC 50/60 Hz</th>
<th>DC 48/60 V AC/DC</th>
<th>R (non-adjustable)</th>
<th>LV833668SP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>100/130 V AC/DC</td>
<td>LV833684SP</td>
<td>LV833668SP</td>
</tr>
<tr>
<td></td>
<td>200/250 V AC/DC</td>
<td>LV833685SP</td>
<td>LV833668SP</td>
</tr>
<tr>
<td></td>
<td>380/480 V AC/DC</td>
<td>LV833683SP</td>
<td>LV833668SP</td>
</tr>
</tbody>
</table>
# Chassis locking

**"Disconnected" position locking / 1 part**

<table>
<thead>
<tr>
<th>By padlocks</th>
<th>VCPO</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Profalux</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 lock with 1 key + adaptation kit</td>
<td>LV864909SP</td>
<td></td>
</tr>
<tr>
<td>2 locks 1 key + adaptation kit</td>
<td>LV864910SP</td>
<td></td>
</tr>
<tr>
<td>2 locks 2 different keys + adaptation kit</td>
<td>LV864911SP</td>
<td></td>
</tr>
<tr>
<td>By Profalux keylocks</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 keylock Profalux (without adaptation kit):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>identical key not identified combination</td>
<td>LV833173SP</td>
<td></td>
</tr>
<tr>
<td>identical key identified 215470 combination</td>
<td>LV833174SP</td>
<td></td>
</tr>
<tr>
<td>identical key identified 215471 combination</td>
<td>LV833175SP</td>
<td></td>
</tr>
<tr>
<td>By Ronis keylocks</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ronis</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 lock with 1 key + adaptation kit</td>
<td>LV864912SP</td>
<td></td>
</tr>
<tr>
<td>2 locks 1 key + adaptation kit</td>
<td>LV864913SP</td>
<td></td>
</tr>
<tr>
<td>2 locks 2 different keys + adaptation kit</td>
<td>LV864914SP</td>
<td></td>
</tr>
<tr>
<td>1 keylock Ronis (without adaptation kit):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>identical key not identified combination</td>
<td>LV833189SP</td>
<td></td>
</tr>
<tr>
<td>identical key identified EL24135 combination</td>
<td>LV833190SP</td>
<td></td>
</tr>
<tr>
<td>identical key identified EL24153 combination</td>
<td>LV833191SP</td>
<td></td>
</tr>
<tr>
<td>identical key identified EL24315 combination</td>
<td>LV833192SP</td>
<td></td>
</tr>
</tbody>
</table>

**Adaptation kit (without keylock):**

- adaptation kit Profalux/Ronis: LV833768SP
- adaptation kit Castell: LV833771SP
- adaptation kit Kirk: LV833772SP

**Door interlock / 1 part**

- Right and left-hand side of chassis (VPEC or VPECG): LV833172SP

**Racking interlock / 1 part**

- Racking interlock (VPOC): LV833788SP

**Breaker mismatch protection / 1 part**

- Breaker mismatch protection (VDC): LV833767SP

## Chassis accessories

**Auxiliary terminal shield (CB) / 1 part**

<table>
<thead>
<tr>
<th>Terminal shield</th>
<th>3P</th>
<th>4P</th>
</tr>
</thead>
<tbody>
<tr>
<td>LV833763SP</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LV833764SP</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Safety shutters + locking / 1 part**

<table>
<thead>
<tr>
<th>Safety shutters (VO)</th>
<th>3P</th>
<th>4P</th>
</tr>
</thead>
<tbody>
<tr>
<td>LV833765SP</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LV833766SP</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Note:** the locking of safety shutters is integrated.
Clusters

Kit of 6 disconnecting contact clusters for chassis (see table below)

Table: number of clusters required for the different chassis models

<table>
<thead>
<tr>
<th>Chassis rating (A)</th>
<th>MasterPact MTZ1 3P</th>
<th>MasterPact MTZ1 4P</th>
</tr>
</thead>
<tbody>
<tr>
<td>630</td>
<td>12</td>
<td>18</td>
</tr>
<tr>
<td>800</td>
<td>12</td>
<td>18</td>
</tr>
<tr>
<td>1000</td>
<td>12</td>
<td>18</td>
</tr>
<tr>
<td>1250</td>
<td>12</td>
<td>18</td>
</tr>
<tr>
<td>1600</td>
<td>18</td>
<td>24</td>
</tr>
</tbody>
</table>

Set of 2 clusters fitters for 2 and 3 clusters

Racking handle / 1 part

Racking handle

NT chassis retrofit to MTZ1

Kit for retrofitting an NT chassis for MTZ1 moving part

For more information: retrofit kit instruction sheet (QGH31933)
## Circuit breaker locking

### Pushbutton locking device / 1 part
- By padlocks
  - LV833897SP

### OFF position locking / 1 part
- By padlocks + BPFE support
  - LV847514SP

- By Profalux keylocks + support
  - Profalux:
    - 1 lock with 1 key + adaptation kit
      - LV864918SP
    - 2 locks 1 key + adaptation kit
      - LV864919SP
    - 1 keylock Profalux (without adaptation kit):
      - identical key not identified combination
        - LV833173SP
      - identical key identified 215470 combination
        - LV833174SP
      - identical key identified 215471 combination
        - LV833175SP

- By Ronis keylocks + support
  - Ronis:
    - 1 lock with 1 key + adaptation kit
      - LV864920SP
    - 2 locks 1 key + adaptation kit
      - LV864921SP
    - 1 keylock Ronis (without adaptation kit):
      - identical key not identified combination
        - LV833190SP
      - identical key identified EL24135 combination
        - LV833191SP
      - identical key identified EL24315 combination
        - LV833192SP

### Adaptation kit (without keylock):
- adaptation kit Profalux / Ronis
  - LV847515SP
- adaptation kit Kirk
  - LV847517SP
- adaptation kit Castell
  - LV847518SP

## Other circuit breaker accessories

### Mechanical operation counter / 1 part
- Operation counter CDM
  - LV833895SP

### Escutcheon and accessories / 1 part
- Escutcheon
  - LV833718SP
- Transparent cover (IP54)
  - LV833859SP
- Escutcheon blanking plate
  - LV833858SP

### Front cover (3P) / 1 part
- Front cover
  - LV847094SP

### Spring charging handle / 1 part
- Spring charging handle
  - LV847092SP

### Arc chute for MasterPact MTZ1 / 1 part
- Type H1/H2/HA
  - LV846737SP
- Type L1
  - LV847095SP
## Mechanical interlocking for source changeover

### Interlocking using connecting rods

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Choose 1 set of 2 adaptation fixtures + 1 set of rods</td>
<td></td>
</tr>
<tr>
<td>1 set of 2 adaptation fixtures for MasterPact MTZ1 fixed devices</td>
<td>LV833203SP</td>
</tr>
<tr>
<td>1 set of 2 adaptation fixtures for MasterPact MTZ1 drawout devices</td>
<td>LV833204SP</td>
</tr>
<tr>
<td>1 set of 2 interlocking rods</td>
<td>LV833210SP</td>
</tr>
</tbody>
</table>

*Note: the installation manual is enclosed.*

### Interlocking using cables[^1](#)

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Choose 2 adaptation fixtures (1 for each device) + 1 set of cables</td>
<td></td>
</tr>
<tr>
<td>1 adaptation fixture for MasterPact MTZ1 fixed devices</td>
<td>LV833200SP</td>
</tr>
<tr>
<td>1 adaptation fixture for MasterPact MTZ1 drawout devices</td>
<td>LV833201SP</td>
</tr>
<tr>
<td>1 set of 2 cables</td>
<td>LV833209SP</td>
</tr>
</tbody>
</table>

[^1]: Can be used with any combination of MTZ1 or MTZ2/3, fixed or drawout devices.

### Cable-type door interlock

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 complete assembly for MasterPact MTZ1 fixed devices</td>
<td>LV833920SP</td>
</tr>
<tr>
<td>1 complete assembly for MasterPact MTZ1 drawout devices</td>
<td>LV833921SP</td>
</tr>
</tbody>
</table>

*Note: the installation manual is enclosed.*
### Indication contacts

#### ON/OFF indication contacts (OF) / 1 part

<table>
<thead>
<tr>
<th>Changeover contacts (6 A - 240 V)</th>
<th>LV847077SP</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 low-level OF to replace 1 standard OF (4 max.)</td>
<td>LV847077SP</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Wiring</th>
<th>LV847074SP</th>
</tr>
</thead>
<tbody>
<tr>
<td>For fixed circuit breaker</td>
<td>LV847074SP</td>
</tr>
<tr>
<td>For drawout circuit breaker (if necessary)</td>
<td>LV833098SP</td>
</tr>
</tbody>
</table>

#### “Ready to close” contact (1 max.) / 1 part

<table>
<thead>
<tr>
<th>Changeover contact (6 A - 240 V)</th>
<th>LV847077SP</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 low-level changeover contact</td>
<td>LV847077SP</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Wiring</th>
<th>LV847074SP</th>
</tr>
</thead>
<tbody>
<tr>
<td>For fixed circuit breaker</td>
<td>LV847074SP</td>
</tr>
<tr>
<td>For drawout circuit breaker (if necessary)</td>
<td>LV833098SP</td>
</tr>
</tbody>
</table>

#### Electrical closing pushbutton / 1 part

<table>
<thead>
<tr>
<th>Pushbutton</th>
<th>BPFE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 pushbutton</td>
<td>LV864917SP</td>
</tr>
</tbody>
</table>

#### Carriage switches (connected / disconnected / test position) / 1 part

<table>
<thead>
<tr>
<th>Changeover contacts (6 A - 240 V)</th>
<th>LV833170SP</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 connected position contact (3 max.)</td>
<td>LV833170SP</td>
</tr>
<tr>
<td>1 test position contact (1 max.)</td>
<td>LV833170SP</td>
</tr>
<tr>
<td>1 disconnected position contact (2 max.)</td>
<td>LV833170SP</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>And/or low-level changeover contacts</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 connected position contact (3 max.)</td>
</tr>
<tr>
<td>1 test position contact (1 max.)</td>
</tr>
<tr>
<td>1 disconnected position contact (2 max.)</td>
</tr>
</tbody>
</table>

#### Auxiliary terminals for chassis alone

| 3 wire terminal (1 part), terminal block (1 part) | LV833098SP |
| 6 wire terminal (1 part), terminal block (1 part) | LV833099SP |
| Jumpers (10 parts) | LV847900SP |

#### Auxiliary terminals for fixed circuit breaker

| 3 wire terminal block (1 part) | LV847074SP |
| 6 wire terminal block (1 part) | LV847075SP |
### Communication option

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Embedded Ethernet module full spare part kit for MTZ1-drawout</td>
<td>LV851100SP</td>
</tr>
<tr>
<td>Embedded ethernet Spare Part module for MTZ1/2/3-drawout</td>
<td>LV851001SP</td>
</tr>
<tr>
<td>Modbus interface</td>
<td>LV434000</td>
</tr>
<tr>
<td>Ethernet interface LV breaker</td>
<td>LV434001</td>
</tr>
<tr>
<td>Ethernet interface for LV breakers and gateway</td>
<td>LV434002</td>
</tr>
<tr>
<td>Microswitches for MTZ1</td>
<td>LV847906SP</td>
</tr>
<tr>
<td>I/O application module</td>
<td>LV434063</td>
</tr>
<tr>
<td>EIFE Accessories spare part kit for MTZ1-drawout</td>
<td>LV851120SP</td>
</tr>
</tbody>
</table>

### ULP port modules

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>ULP port - for MasterPact MTZ1 - fixed</td>
<td>LV850063SP</td>
</tr>
<tr>
<td>ULP port - for MasterPact MTZ1 - drawout</td>
<td>LV850064SP</td>
</tr>
</tbody>
</table>

### Accessories for Diagnostics & Communicating Releases

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isolation module - for MX1/XF communicating coils</td>
<td>LV850056SP</td>
</tr>
</tbody>
</table>

### Monitoring and control

#### Ethernet display module

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Switchboard front display module FDM128</td>
<td>LV434128</td>
</tr>
</tbody>
</table>

#### ULP wiring accessories

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breaker ULP cord L = 0.35 m</td>
<td>LV434195</td>
</tr>
<tr>
<td>Breaker ULP cord L = 1.3 m</td>
<td>LV434196</td>
</tr>
<tr>
<td>Breaker ULP cord L = 3 m</td>
<td>LV434197</td>
</tr>
<tr>
<td>Breaker ULP cord L = 5 m</td>
<td>LV434198</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connector Modbus adaptor</td>
<td>LV434211</td>
</tr>
<tr>
<td>10 Modbus line terminators</td>
<td>VW3A8306DRC</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 RJ45 connectors female/female</td>
<td>TRV00870</td>
</tr>
<tr>
<td>10 ULP line terminators</td>
<td>TRV00880</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 RJ45/RJ45 male cord L = 0.3 m</td>
<td>TRV00803</td>
</tr>
<tr>
<td>10 RJ45/RJ45 male cord L = 0.6 m</td>
<td>TRV00806</td>
</tr>
<tr>
<td>5 RJ45/RJ45 male cord L = 1 m</td>
<td>TRV00810</td>
</tr>
<tr>
<td>5 RJ45/RJ45 male cord L = 2 m</td>
<td>TRV00820</td>
</tr>
<tr>
<td>5 RJ45/RJ45 male cord L = 3 m</td>
<td>TRV00830</td>
</tr>
<tr>
<td>5 RJ45/RJ45 male cord L = 5 m</td>
<td>TRV00850</td>
</tr>
</tbody>
</table>

[1] For measurement display with MicroLogic x.
Order your breaker: spare parts

**MasterPact MTZ2/3**

**Connection**

<table>
<thead>
<tr>
<th>Connection</th>
<th>3P</th>
<th>4P</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fixed circuit breakers</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Front connection / Replacement kit (3 or 4 parts)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>800-1600 A</td>
<td>LV847990SP</td>
<td>LV847991SP</td>
</tr>
<tr>
<td>2000/3200 A</td>
<td>LV847992SP</td>
<td>LV847993SP</td>
</tr>
<tr>
<td>800-1600 A</td>
<td>LV847932SP</td>
<td>LV847933SP</td>
</tr>
<tr>
<td>2000/3200 A</td>
<td>LV847942SP</td>
<td>LV847943SP</td>
</tr>
<tr>
<td><strong>Rear connection (vertical or horizontal mounting) / Replacement kit (3 or 4 parts)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>800-2000 A</td>
<td>LV847964SP</td>
<td>LV847965SP</td>
</tr>
<tr>
<td>2500/3200 A</td>
<td>LV847964SP</td>
<td>LV847965SP</td>
</tr>
<tr>
<td>4000 A</td>
<td>LV847964SP</td>
<td>LV847965SP</td>
</tr>
<tr>
<td>4000b/5000 A</td>
<td>LV847964SP</td>
<td>LV847965SP</td>
</tr>
<tr>
<td>6300 A</td>
<td>LV847964SP</td>
<td>LV847965SP</td>
</tr>
<tr>
<td><strong>Vertical mounting</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>800-2000 A</td>
<td>LV847960SP</td>
<td>LV847962SP</td>
</tr>
<tr>
<td>2000/3200 A</td>
<td>LV847960SP</td>
<td>LV847962SP</td>
</tr>
<tr>
<td><strong>Horizontal mounting</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>800-2000 A</td>
<td>LV847964SP</td>
<td>LV847965SP</td>
</tr>
<tr>
<td>2500/3200 A</td>
<td>LV847964SP</td>
<td>LV847965SP</td>
</tr>
<tr>
<td>4000 A</td>
<td>LV847964SP</td>
<td>LV847965SP</td>
</tr>
<tr>
<td>4000b/5000 A</td>
<td>LV847964SP</td>
<td>LV847965SP</td>
</tr>
<tr>
<td>6300 A</td>
<td>LV847964SP</td>
<td>LV847965SP</td>
</tr>
<tr>
<td><strong>Drawout circuit breakers</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Front connection / Replacement kit (3 or 4 parts)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>800-1600 A</td>
<td>LV847960SP</td>
<td>LV847961SP</td>
</tr>
<tr>
<td>2000/3200 A</td>
<td>LV847960SP</td>
<td>LV847961SP</td>
</tr>
<tr>
<td><strong>Rear connection (vertical or horizontal mounting) / Replacement kit (3 or 4 parts)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>800-2000 A types H1/H2</td>
<td>LV847968SP</td>
<td>LV847969SP</td>
</tr>
<tr>
<td>800-1600 A types H3/L1</td>
<td>LV847968SP</td>
<td>LV847969SP</td>
</tr>
<tr>
<td>2500/3200 A types H1/H2</td>
<td>LV847968SP</td>
<td>LV847969SP</td>
</tr>
<tr>
<td>2000/3200 A types H3/L1</td>
<td>LV847968SP</td>
<td>LV847969SP</td>
</tr>
<tr>
<td>4000 A</td>
<td>LV847968SP</td>
<td>LV847969SP</td>
</tr>
<tr>
<td>4000b/5000 A</td>
<td>LV847968SP</td>
<td>LV847969SP</td>
</tr>
<tr>
<td>6300 A</td>
<td>LV847968SP</td>
<td>LV847969SP</td>
</tr>
<tr>
<td><strong>Connection accessories</strong></td>
<td>3P</td>
<td>4P</td>
</tr>
<tr>
<td>Disconnectable front-connection adapter for fixed circuit breaker (3 or 4 parts)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1600 A</td>
<td>LV848421SP</td>
<td>LV848424SP</td>
</tr>
<tr>
<td>2000/3200 A</td>
<td>LV848422SP</td>
<td>LV848425SP</td>
</tr>
<tr>
<td>Interphase barriers / Replacement kit (3 parts)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>For fixed rear-connected circuit breaker</td>
<td>LV848599SP</td>
<td>LV848599SP</td>
</tr>
<tr>
<td>For drawout rear-connected circuit breaker</td>
<td>LV848600SP</td>
<td>LV848600SP</td>
</tr>
<tr>
<td>Additional support brackets for mounting on a backplate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>For fixed rear-connected circuit breaker (2 parts)</td>
<td>LV847829SP</td>
<td></td>
</tr>
<tr>
<td><strong>Grounding kit KTM</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grounding kit for MasterPact MTZ2/3 fixed</td>
<td>LV848556SP</td>
<td></td>
</tr>
<tr>
<td>Side plate kit</td>
<td>LV848557SP</td>
<td></td>
</tr>
<tr>
<td>Device earthing kit</td>
<td>LV848557SP</td>
<td></td>
</tr>
<tr>
<td>Grounding kit for MasterPact MTZ2/3 drawout</td>
<td>LV848557SP</td>
<td></td>
</tr>
</tbody>
</table>
## Replacement parts for MicroLogic X control units

### MicroLogic X embedded display (EHMI)

<table>
<thead>
<tr>
<th>Part Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>MicroLogic X embedded display &amp; wireless card</td>
<td>LV850054SP</td>
</tr>
</tbody>
</table>

### MicroLogic Battery + Transparent cover

<table>
<thead>
<tr>
<th>Part Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery (1 part)</td>
<td>LV833593SP</td>
</tr>
<tr>
<td>Transparent Cover (1 part)</td>
<td>LV850053SP</td>
</tr>
</tbody>
</table>

### Voltage power supply module (VPS) for MicroLogic X

<table>
<thead>
<tr>
<th>Part Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage power supply module (VPS) for MicroLogic X</td>
<td>LV850060SP</td>
</tr>
</tbody>
</table>

### Communication option

<table>
<thead>
<tr>
<th>Part Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>EIFE Embedded Ethernet interface for LV breaker</td>
<td>LV851200SP</td>
</tr>
<tr>
<td>IFM Modbus interface</td>
<td>LV434000</td>
</tr>
<tr>
<td>IFE Ethernet interface LV breaker</td>
<td>LV434001</td>
</tr>
<tr>
<td>IFE Ethernet interface for LV breakers and gateway</td>
<td>LV434002</td>
</tr>
<tr>
<td>I/O application module</td>
<td>LV434063</td>
</tr>
<tr>
<td>Microswitches for MTZ2/3</td>
<td>LV849055SP</td>
</tr>
</tbody>
</table>

### Accessories

#### External sensors

<table>
<thead>
<tr>
<th>Part Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>External sensor for earth-fault protection (TCE) / 1 part</td>
<td></td>
</tr>
<tr>
<td>Sensor rating 400/2000 A</td>
<td>LV834035SP</td>
</tr>
<tr>
<td>1000/4000 A</td>
<td>LV834036SP</td>
</tr>
<tr>
<td>4000/6300 A (MTZ2)</td>
<td>LV848182SP</td>
</tr>
<tr>
<td>Single sensor kit 2000/6300 A</td>
<td>LV848904SP</td>
</tr>
<tr>
<td>3 layer bus 2000 A</td>
<td>LV848905SP</td>
</tr>
</tbody>
</table>

#### Source ground return (SGR) earth-fault protection / 1 part

<table>
<thead>
<tr>
<th>Part Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>External sensor (SGR)</td>
<td>LV833579SP</td>
</tr>
<tr>
<td>MDGF summing module</td>
<td>LV848891SP</td>
</tr>
</tbody>
</table>

#### Rectangular sensor for earth-leakage protection + Vigi cable / 1 part (up to 3200 A)

<table>
<thead>
<tr>
<th>Part Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>280 mm x 115 mm</td>
<td>LV833573SP</td>
</tr>
<tr>
<td>470 mm x 160 mm</td>
<td>LV833574SP</td>
</tr>
</tbody>
</table>

#### External power supply module (AD) / 1 part

<table>
<thead>
<tr>
<th>Part Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>24-30 V DC</td>
<td>LV454440</td>
</tr>
<tr>
<td>48-60 V DC</td>
<td>LV454441</td>
</tr>
<tr>
<td>100-125 V DC</td>
<td>LV454442</td>
</tr>
<tr>
<td>110-130 V AC</td>
<td>LV454443</td>
</tr>
<tr>
<td>200-240 V AC</td>
<td>LV454444</td>
</tr>
</tbody>
</table>

#### USB Cable (miniUSB/USB) for MicroLogic X / 1 part

<table>
<thead>
<tr>
<th>Part Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>USB Cable (miniUSB/USB) for MicroLogic X / 1 part</td>
<td>LV850067SP</td>
</tr>
</tbody>
</table>

#### Mobile Powerpack for MicroLogic X (by APC) / 1 part

<table>
<thead>
<tr>
<th>Part Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mobile Powerpack for MicroLogic X (by APC) / 1 part</td>
<td>LV850055SP</td>
</tr>
</tbody>
</table>
Order your breaker: spare parts

MasterPact MTZ2/3
Remote operation

Remote operation

**Gear motor**

<table>
<thead>
<tr>
<th>MCH (1 part)</th>
<th>48 V</th>
<th>LV847889SP</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC 50/60 Hz</td>
<td>100/130 V</td>
<td>LV847893SP</td>
</tr>
<tr>
<td>DC</td>
<td>200/240 V</td>
<td>LV847894SP</td>
</tr>
<tr>
<td></td>
<td>277/415 V</td>
<td>LV847895SP</td>
</tr>
<tr>
<td></td>
<td>440/480 V</td>
<td>LV847896SP</td>
</tr>
</tbody>
</table>

+ resistor

<table>
<thead>
<tr>
<th>Terminal block (1 part)</th>
<th>For fixed circuit breaker</th>
<th>LV847074SP</th>
</tr>
</thead>
<tbody>
<tr>
<td>For drawout circuit breaker (if necessary)</td>
<td>LV847849SP</td>
<td></td>
</tr>
</tbody>
</table>

**Closing and opening release (XF or MX)**

**Standard coil (1 part)**

<table>
<thead>
<tr>
<th>AC 50/60 Hz</th>
<th>24/30 V DC, 24 V AC</th>
<th>LV833659SP</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC</td>
<td>48/60 V DC, 48 V AC</td>
<td>LV833660SP</td>
</tr>
<tr>
<td></td>
<td>100/130 V AC/DC</td>
<td>LV833661SP</td>
</tr>
<tr>
<td></td>
<td>200/250 V AC/DC</td>
<td>LV833662SP</td>
</tr>
<tr>
<td></td>
<td>277 V AC</td>
<td>LV833663SP</td>
</tr>
<tr>
<td></td>
<td>380/480 V AC</td>
<td>LV833664SP</td>
</tr>
</tbody>
</table>

**Diagnostics & Communicating coil (1 part)**

<table>
<thead>
<tr>
<th>AC 50/60 Hz</th>
<th>24/30 V DC, 24 V AC</th>
<th>LV833033SP</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC</td>
<td>48/60 V DC, 48 V AC</td>
<td>LV833034SP</td>
</tr>
<tr>
<td></td>
<td>100/130 V AC/DC</td>
<td>LV833035SP</td>
</tr>
<tr>
<td></td>
<td>200/250 V AC/DC</td>
<td>LV833036SP</td>
</tr>
<tr>
<td></td>
<td>277 V AC</td>
<td>LV833037SP</td>
</tr>
<tr>
<td></td>
<td>380/480 V AC</td>
<td>LV833038SP</td>
</tr>
</tbody>
</table>

Wiring kit for diag & com coil

<table>
<thead>
<tr>
<th>Terminal block (1 part)</th>
<th>For fixed circuit breaker</th>
<th>LV847074SP</th>
</tr>
</thead>
<tbody>
<tr>
<td>For drawout circuit breaker (if necessary)</td>
<td>LV847849SP</td>
<td></td>
</tr>
</tbody>
</table>

**Undervoltage release MN**

**Undervoltage release (1 part)**

<table>
<thead>
<tr>
<th>AC 50/60 Hz</th>
<th>24/30 V DC, 24 V AC</th>
<th>LV833668SP</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC</td>
<td>48/60 V DC, 48 V AC</td>
<td>LV833669SP</td>
</tr>
<tr>
<td></td>
<td>100/130 V AC/DC</td>
<td>LV833670SP</td>
</tr>
<tr>
<td></td>
<td>200/250 V AC/DC</td>
<td>LV833671SP</td>
</tr>
<tr>
<td></td>
<td>380/480 V AC</td>
<td>LV833672SP</td>
</tr>
</tbody>
</table>

**Diagnostics coil (1 part)**

<table>
<thead>
<tr>
<th>AC 50/60 Hz</th>
<th>24/30 V DC, 24 V AC</th>
<th>LV833668SP</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC</td>
<td>48/60 V DC, 48 V AC</td>
<td>LV833669SP</td>
</tr>
<tr>
<td></td>
<td>100/130 V AC/DC</td>
<td>LV833670SP</td>
</tr>
<tr>
<td></td>
<td>200/250 V AC/DC</td>
<td>LV833671SP</td>
</tr>
<tr>
<td></td>
<td>380/480 V AC</td>
<td>LV833672SP</td>
</tr>
</tbody>
</table>

Wiring kit for diag & com coil

<table>
<thead>
<tr>
<th>Terminal block (1 part)</th>
<th>For fixed circuit breaker</th>
<th>LV847074SP</th>
</tr>
</thead>
<tbody>
<tr>
<td>For drawout circuit breaker (if necessary)</td>
<td>LV847849SP</td>
<td></td>
</tr>
</tbody>
</table>

**Voltage releases securing fixture**

Voltage releases securing fixture for MX/XF/MN | LV847093SP

**MN delay unit**

**MN delay unit (1 part)**

<table>
<thead>
<tr>
<th>AC 50/60 Hz</th>
<th>R (non-adjustable)</th>
<th>LV833680SP</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC</td>
<td></td>
<td>LV833681SP</td>
</tr>
<tr>
<td></td>
<td>100/130 V AC/DC</td>
<td>LV833685SP</td>
</tr>
<tr>
<td></td>
<td>200/250 V AC/DC</td>
<td>LV833682SP</td>
</tr>
<tr>
<td></td>
<td>380/480 V AC</td>
<td>LV833683SP</td>
</tr>
</tbody>
</table>

[1] Diagnostics & Communicating coils (MX/XF/MN) requires additionally the isolation module if isn´t installed in breaker -1 module by breaker.
### Chassis locking

#### “Disconnected” position locking / 1 part

<table>
<thead>
<tr>
<th>By padlocks</th>
<th>VCPO</th>
<th>Standard</th>
</tr>
</thead>
</table>

#### By Profalux keylocks

<table>
<thead>
<tr>
<th>Profalux</th>
<th>1 lock with 1 key + adaptation kit</th>
<th>LV864934SP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2 locks 1 key + adaptation kit</td>
<td>LV864935SP</td>
</tr>
<tr>
<td></td>
<td>2 locks 2 different keys + adaptation kit</td>
<td>LV864936SP</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1 keylock Profalux (without adaptation kit):</th>
<th>identical key not identified combination</th>
<th>LV8633173SP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>identical key identified 215470 combination</td>
<td>LV8633174SP</td>
</tr>
<tr>
<td></td>
<td>identical key identified 215471 combination</td>
<td>LV8633175SP</td>
</tr>
</tbody>
</table>

#### By Ronis keylocks

<table>
<thead>
<tr>
<th>Ronis</th>
<th>1 lock with 1 key + adaptation kit</th>
<th>LV864937SP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2 locks 1 key + adaptation kit</td>
<td>LV864938SP</td>
</tr>
<tr>
<td></td>
<td>2 locks 2 different keys + adaptation kit</td>
<td>LV864939SP</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1 keylock Ronis (without adaptation kit):</th>
<th>identical key not identified combination</th>
<th>LV8633189SP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>identical key identified EL24135 combination</td>
<td>LV8633190SP</td>
</tr>
<tr>
<td></td>
<td>identical key identified EL24153 combination</td>
<td>LV8633191SP</td>
</tr>
<tr>
<td></td>
<td>identical key identified EL24315 combination</td>
<td>LV8633192SP</td>
</tr>
</tbody>
</table>

#### Adaptation kit (without keylock):

<table>
<thead>
<tr>
<th>adaptation kit Profalux / Ronis</th>
<th>LV848564SP</th>
</tr>
</thead>
<tbody>
<tr>
<td>adaptation kit Kirk</td>
<td>LV848565SP</td>
</tr>
<tr>
<td>adaptation kit Castell</td>
<td>LV848566SP</td>
</tr>
</tbody>
</table>

### Door interlock / 1 part

Right and left-hand side of chassis (VPECD or VPECG)

LV864940SP

### Racking interlock

5 parts

LV864940SP

### Breaker mismatch protection / 1 part

Breaker mismatch protection (VDC)

LV833767SP

### Chassis accessories

#### Auxiliary terminal shield (CB) / 1 part

<table>
<thead>
<tr>
<th>MTZ2 800/4000 A</th>
<th>3P</th>
<th>LV864942SP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>4P</td>
<td>LV848596SP</td>
</tr>
<tr>
<td>MTZ3 4000/6300 A</td>
<td>3P</td>
<td>LV848597SP</td>
</tr>
<tr>
<td></td>
<td>4P</td>
<td>LV848598SP</td>
</tr>
</tbody>
</table>

#### Safety shutters + locking block / 1 part

<table>
<thead>
<tr>
<th>MTZ2 800/4000 A</th>
<th>3P</th>
<th>LV848721SP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>4P</td>
<td>LV848723SP</td>
</tr>
<tr>
<td>MTZ3 4000/6300 A</td>
<td>3P</td>
<td>LV848724SP</td>
</tr>
<tr>
<td></td>
<td>4P</td>
<td>LV848724SP</td>
</tr>
</tbody>
</table>

#### Shutter locking block (for replacement) / 1 part

2 parts for 800/4000 A

LV848591SP

#### Front face shutter position indication and locking

<table>
<thead>
<tr>
<th>MTZ2 800/4000 A</th>
<th>3P</th>
<th>LV848592SP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>4P</td>
<td>LV848593SP</td>
</tr>
<tr>
<td>MTZ3 4000/6300 A</td>
<td>3P</td>
<td>LV848594SP</td>
</tr>
<tr>
<td></td>
<td>4P</td>
<td>LV848594SP</td>
</tr>
</tbody>
</table>

---

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Order your breaker: spare parts

MasterPact MTZ2/3

Chassis locking and accessories
Order your breaker: spare parts

**MasterPact MTZ2/3**

Clusters - NW chassis retrofit to MTZ2/MTZ3

### Clusters

Kit of 6 disconnecting contact clusters for chassis (see table below)

<table>
<thead>
<tr>
<th>MasterPact MTZ2-3</th>
<th>LV864906SP</th>
</tr>
</thead>
<tbody>
<tr>
<td>3P</td>
<td></td>
</tr>
<tr>
<td>N1, H1, H10, H2, H3</td>
<td></td>
</tr>
<tr>
<td>L1</td>
<td></td>
</tr>
<tr>
<td>MTZ2 08 to 16</td>
<td>12</td>
</tr>
<tr>
<td>MTZ2 20</td>
<td>24</td>
</tr>
<tr>
<td>MTZ2 25</td>
<td>24</td>
</tr>
<tr>
<td>MTZ2 32</td>
<td>36</td>
</tr>
<tr>
<td>MTZ2 40</td>
<td>42</td>
</tr>
<tr>
<td>MTZ2 40 to 50</td>
<td>72</td>
</tr>
<tr>
<td>MTZ3 63</td>
<td>72</td>
</tr>
</tbody>
</table>

### Table: number of clusters required for the different chassis models

<table>
<thead>
<tr>
<th>Device type</th>
<th>Quantity to be ordered</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTZ2 08-16 N1/NA/H1/H2A</td>
<td>3/4</td>
<td>LV847908SP</td>
</tr>
<tr>
<td>MTZ2 20 N1/MTZ2 20-25 H1/H2A</td>
<td>3/4</td>
<td>LV847909SP</td>
</tr>
<tr>
<td>MTZ2 32-40 H1/H2A</td>
<td>3/4</td>
<td>LV847912SP</td>
</tr>
</tbody>
</table>

### Racking handle

Racking handle

LV847944SP

### Racking terminals for converting a fixed into a drawout circuit breaker (for 1 pole = top + bottom)

Device type        | Quantity to be ordered | Part number |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MTZ2 08-16 N1/NA/H1/H2A</td>
<td>3/4</td>
<td>LV847908SP</td>
</tr>
<tr>
<td>MTZ2 20 N1/MTZ2 20-25 H1/H2A</td>
<td>3/4</td>
<td>LV847909SP</td>
</tr>
<tr>
<td>MTZ2 32-40 H1/H2A</td>
<td>3/4</td>
<td>LV847912SP</td>
</tr>
</tbody>
</table>

### NW chassis retrofit to MTZ2/MTZ3

Kit for retrofitting an NW chassis for MTZ2/3 moving part

LV85006SSP

For more information: retrofit kit instruction sheet [QGH31931]
## Circuit breaker locking

### Pushbutton locking device / 1 part

| By padlocks | LV848536SP |

### OFF position locking / 1 part

| By padlocks | LV848539SP |

<table>
<thead>
<tr>
<th>By Profalux keylocks</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Profalux</strong></td>
<td><strong>LV864928SP</strong></td>
</tr>
<tr>
<td>1 lock with 1 key + adaptation kit</td>
<td><strong>LV864928SP</strong></td>
</tr>
<tr>
<td>2 locks 1 key + adaptation kit</td>
<td><strong>LV864929SP</strong></td>
</tr>
<tr>
<td>2 locks 2 different keys + adaptation kit</td>
<td><strong>LV864930SP</strong></td>
</tr>
<tr>
<td><strong>1 keylock Profalux</strong> (without adaptation kit):</td>
<td></td>
</tr>
<tr>
<td>identical key not identified combination</td>
<td><strong>LV833173SP</strong></td>
</tr>
<tr>
<td>identical key identified 215470 combination</td>
<td><strong>LV833174SP</strong></td>
</tr>
<tr>
<td>identical key identified 215471 combination</td>
<td><strong>LV833175SP</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>By Ronis keylocks</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ronis</strong></td>
<td><strong>LV864931SP</strong></td>
</tr>
<tr>
<td>1 lock with 1 key + adaptation kit</td>
<td><strong>LV864931SP</strong></td>
</tr>
<tr>
<td>2 locks 1 key + adaptation kit</td>
<td><strong>LV864932SP</strong></td>
</tr>
<tr>
<td>2 locks 2 different keys + adaptation kit</td>
<td><strong>LV864933SP</strong></td>
</tr>
<tr>
<td><strong>1 keylock Ronis</strong> (without adaptation kit):</td>
<td></td>
</tr>
<tr>
<td>identical key not identified combination</td>
<td><strong>LV833189SP</strong></td>
</tr>
<tr>
<td>identical key identified EL24135 combination</td>
<td><strong>LV833190SP</strong></td>
</tr>
<tr>
<td>identical key identified EL24153 combination</td>
<td><strong>LV833191SP</strong></td>
</tr>
<tr>
<td>identical key identified EL24315 combination</td>
<td><strong>LV833192SP</strong></td>
</tr>
</tbody>
</table>

| Adaptation kit (without keylock): | |
| adaptation kit Profalux / Ronis | **LV848541SP** |
| adaptation kit Kirk | **LV848542SP** |
| adaptation kit Castell | **LV848543SP** |

## Other circuit breaker accessories

### Mechanical operation counter / 1 part

| Operation counter CDM | LV848535SP |

### Escutcheon and accessories / 1 part

<table>
<thead>
<tr>
<th>Escutcheon</th>
<th>LV848601SP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transparent cover (IP 54)</td>
<td><strong>LV848603SP</strong></td>
</tr>
<tr>
<td>Escutcheon blanking plate</td>
<td><strong>LV848605SP</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cover</th>
<th>LV848605SP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blanking plate</td>
<td><strong>LV848605SP</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Front cover (3P / 4P) / 1 part</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Front cover</td>
<td><strong>LV847939SP</strong></td>
</tr>
</tbody>
</table>

### Spring charging handle / 1 part

| Spring charging handle | LV847940SP |

### Arc chute for MasterPact MTZ2/3 / 1 part

<table>
<thead>
<tr>
<th>Type</th>
<th>3P</th>
<th>4P</th>
</tr>
</thead>
<tbody>
<tr>
<td>N1/NA/HF</td>
<td>LV847935SP</td>
<td>LV847935SP</td>
</tr>
<tr>
<td>H1/H2/HA (MTZ2 08 to MTZ2 40)</td>
<td>LV847935SP</td>
<td>LV847935SP</td>
</tr>
<tr>
<td>H1/H2/HA (MTZ3 40 to MTZ3 63)</td>
<td>LV847936SP</td>
<td>LV847936SP</td>
</tr>
<tr>
<td>H3</td>
<td>LV847936SP</td>
<td>LV847936SP</td>
</tr>
<tr>
<td>H10/HA10</td>
<td>LV847869SP</td>
<td>LV847869SP</td>
</tr>
<tr>
<td>L1</td>
<td>LV847937SP</td>
<td>LV847937SP</td>
</tr>
</tbody>
</table>
## Order your breaker: spare parts

### MasterPact MTZ2/3

### Mechanical interlocking for source changeover

#### Interlocking of 2 devices using connecting rods

<table>
<thead>
<tr>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Choose 1 set of 2 adaptation fixtures (1 for each device) + 1 set of rods.</td>
<td>LV847930SP</td>
</tr>
<tr>
<td>1 set of 2 adaptation fixtures for MasterPact MTZ2 or MTZ3 fixed or drawout device</td>
<td>LV833210SP</td>
</tr>
<tr>
<td>1 set of 2 interlocking rods</td>
<td></td>
</tr>
</tbody>
</table>

Can be used with 1 MTZ2/3 fixed + 1 MTZ2/3 drawout.

**Note:** the installation manual is enclosed.

#### Interlocking of 2 devices using cables [*1*]

<table>
<thead>
<tr>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Choose 2 adaptation fixtures (1 for each device) + 1 set of cables</td>
<td>LV847926SP</td>
</tr>
<tr>
<td>1 adaptation fixture for MasterPact MTZ2/3 fixed devices</td>
<td>LV847926SP</td>
</tr>
<tr>
<td>1 adaptation fixture for MasterPact MTZ2/3 drawout devices</td>
<td>LV833209SP</td>
</tr>
<tr>
<td>1 set of 2 cables</td>
<td>LV833209SP</td>
</tr>
</tbody>
</table>

[*1*] Can be used with any combination of MTZ1 or MTZ2/3, fixed or drawout devices.

#### Interlocking of 3 devices using cables

<table>
<thead>
<tr>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Choose 3 adaptation (including 3 adaptation fixtures + cables)</td>
<td>LV848610SP</td>
</tr>
<tr>
<td>3 sources, only 1 device closed, fixed or drawout devices</td>
<td>LV848609SP</td>
</tr>
<tr>
<td>2 sources + 1 coupling, fixed or drawout devices</td>
<td>LV848608SP</td>
</tr>
<tr>
<td>2 normal + 1 replacement source, fixed or drawout devices</td>
<td>LV848608SP</td>
</tr>
</tbody>
</table>

#### Cable-type door interlock

<table>
<thead>
<tr>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 complete assembly for MasterPact MTZ2/3 fixed or drawout device</td>
<td>LV848614SP</td>
</tr>
</tbody>
</table>

**Note:** the installation manual is enclosed.
Indication contacts

ON/OFF indication contacts (OF) / 12 parts

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 additional block of 4 contacts</td>
<td>LV864922SP</td>
</tr>
<tr>
<td>Wiring</td>
<td></td>
</tr>
<tr>
<td>For fixed circuit breaker</td>
<td>LV847074SP x 4</td>
</tr>
<tr>
<td>For drawout circuit breaker (if necessary)</td>
<td>LV847849SP x 4</td>
</tr>
</tbody>
</table>

"Fault trip" indication contacts (SDE) / 1 part

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Changeover contact (SDE) 6 A - 240 V</td>
<td>LV847915SP</td>
</tr>
<tr>
<td>Low-level</td>
<td>LV847916SP</td>
</tr>
<tr>
<td>Wiring</td>
<td></td>
</tr>
<tr>
<td>For fixed circuit breaker</td>
<td>LV847074SP</td>
</tr>
<tr>
<td>For drawout circuit breaker (if necessary)</td>
<td>LV847849SP</td>
</tr>
</tbody>
</table>

Remote reset after fault trip

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical reset RES</td>
<td>LV848202SP</td>
</tr>
<tr>
<td>110/130 V AC</td>
<td></td>
</tr>
<tr>
<td>220/240 V AC</td>
<td>LV848203SP</td>
</tr>
<tr>
<td>Wiring</td>
<td></td>
</tr>
<tr>
<td>For fixed circuit breaker</td>
<td>LV847074SP</td>
</tr>
<tr>
<td>For drawout circuit breaker (if necessary)</td>
<td>LV847849SP</td>
</tr>
</tbody>
</table>

"Ready to close" contact (1 max.) / 1 part

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 changeover contact (5 A - 240 V)</td>
<td>LV847080SP</td>
</tr>
<tr>
<td>1 low-level changeover contact</td>
<td></td>
</tr>
<tr>
<td>Wiring</td>
<td></td>
</tr>
<tr>
<td>For fixed circuit breaker</td>
<td>LV847074SP</td>
</tr>
<tr>
<td>For drawout circuit breaker (if necessary)</td>
<td>LV847849SP</td>
</tr>
</tbody>
</table>

"Connected, disconnected, test position" indication contact (carriage switches) / 1 part

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Changeover contacts 6 A - 240 V</td>
<td>LV833170SP</td>
</tr>
<tr>
<td>CE, CD, CT</td>
<td></td>
</tr>
<tr>
<td>Low-level</td>
<td>LV833171SP</td>
</tr>
</tbody>
</table>

Set of additional actuators for carriage switches / 1 set

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 set</td>
<td>LV848560SP</td>
</tr>
</tbody>
</table>

Note: The MasterPact MTZ2 and MTZ3 chassis is equipped in standard for receiving the following carriage switches combinations:
- chassis without EIFE: up to 3 CD + up to 3 CE + up to 3 CT
- chassis with EIFE: up to 3 CD + up to 3 CE.
Any other carriage switches possible combination different than the standard ones requires 1 set of additional actuators.

Combined closed / connected contacts for use with 1 auxiliary contact / 1 part

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 contact (5 A - 240 V)</td>
<td>LV848477SP</td>
</tr>
<tr>
<td>or 1 low-level contact</td>
<td>LV848478SP</td>
</tr>
</tbody>
</table>

Electrical closing pushbutton / 1 part

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 pushbutton</td>
<td>BPFE</td>
</tr>
<tr>
<td></td>
<td>LV848534SP</td>
</tr>
</tbody>
</table>

Auxiliary terminals for chassis alone

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 wire terminal (1 part)</td>
<td>LV847848SP</td>
</tr>
<tr>
<td>6 wire terminal (1 part)</td>
<td>LV847850SP</td>
</tr>
<tr>
<td>Jumpers (10 parts)</td>
<td>LV847900SP</td>
</tr>
</tbody>
</table>

Auxiliary terminals for fixed circuit breaker

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 wire terminal block (1 part)</td>
<td>LV847074SP</td>
</tr>
<tr>
<td>6 wire terminal block (1 part)</td>
<td>LV847075SP</td>
</tr>
</tbody>
</table>
## Order your breaker: spare parts

**MasterPact MTZ2/3**  
Communication, monitoring and control

### Communication option

<table>
<thead>
<tr>
<th>Component</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Embedded Ethernet module full spare kit for MTZ2/3-drawout</td>
<td>LV851200SP</td>
</tr>
<tr>
<td>Embedded Ethernet spare part module MTZ1/2/3-drawout</td>
<td>LV851001SP</td>
</tr>
<tr>
<td>Modbus interface</td>
<td>LV434000</td>
</tr>
<tr>
<td>Ethernet interface LV breaker</td>
<td>LV434001</td>
</tr>
<tr>
<td>Ethernet interface for LV breakers and gateway</td>
<td>LV434002</td>
</tr>
<tr>
<td>Microswitches for MTZ2/3</td>
<td>LV847905SP</td>
</tr>
<tr>
<td>EIFE Accessories spare part kit for MTZ2/3</td>
<td>LV851220SP</td>
</tr>
<tr>
<td>I/O application module</td>
<td>LV434063</td>
</tr>
</tbody>
</table>

### ULP port modules

<table>
<thead>
<tr>
<th>Component</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>ULP port - for MasterPact MTZ2/3 - fixed</td>
<td>LV850061SP</td>
</tr>
<tr>
<td>ULP port - for MasterPact MTZ2/3 - drawout</td>
<td>LV850062SP</td>
</tr>
</tbody>
</table>

### Accessories for Diagnostics & Communicating Releases

<table>
<thead>
<tr>
<th>Component</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isolation module - for MX1/XF communicating coils</td>
<td>LV850056SP</td>
</tr>
</tbody>
</table>

### Monitoring and control

**Ethernet display module**

<table>
<thead>
<tr>
<th>Component</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Switchboard front display module FDM128</td>
<td>LV434128</td>
</tr>
</tbody>
</table>

### ULP wiring accessories

<table>
<thead>
<tr>
<th>Component</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breaker ULP cord L = 0.35 m</td>
<td>LV434195</td>
</tr>
<tr>
<td>Breaker ULP cord L = 1.3 m</td>
<td>LV434196</td>
</tr>
<tr>
<td>Breaker ULP cord L = 3 m</td>
<td>LV434197</td>
</tr>
<tr>
<td>Breaker ULP cord L = 5 m</td>
<td>LV434198</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connector Modbus adaptor</td>
<td>LV434211</td>
</tr>
<tr>
<td>10 Modbus line terminators</td>
<td>VW3A8306DRC (2)</td>
</tr>
<tr>
<td>5 RJ45 connectors female/female</td>
<td>TRV00870</td>
</tr>
<tr>
<td>10 ULP line terminators</td>
<td>TRV00880</td>
</tr>
<tr>
<td>10 RJ45/RJ45 male cord L = 0.3 m</td>
<td>TRV00803</td>
</tr>
<tr>
<td>10 RJ45/RJ45 male cord L = 0.6 m</td>
<td>TRV00806</td>
</tr>
<tr>
<td>5 RJ45/RJ45 male cord L = 1 m</td>
<td>TRV00810</td>
</tr>
<tr>
<td>5 RJ45/RJ45 male cord L = 2 m</td>
<td>TRV00820</td>
</tr>
<tr>
<td>5 RJ45/RJ45 male cord L = 3 m</td>
<td>TRV00830</td>
</tr>
<tr>
<td>1 RJ45/RJ45 male cord L = 5 m</td>
<td>TRV00850</td>
</tr>
</tbody>
</table>

[1] For measurement display with MicroLogic X.  