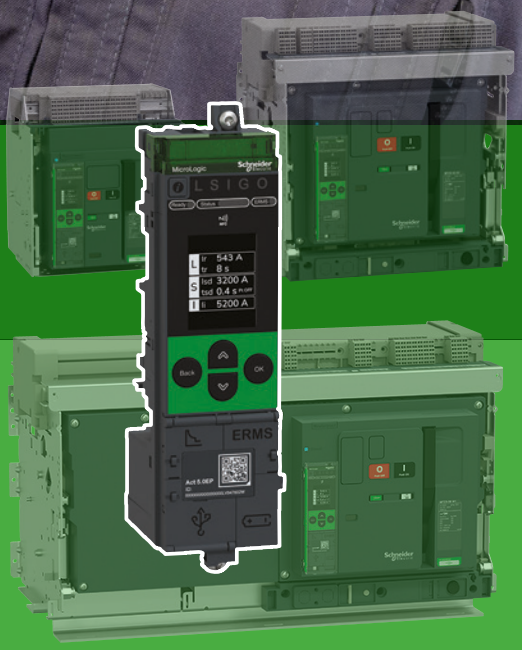
EcoStruxure
Innovation At Every Level

**PacT** Series

# Master**PacT**™ MTZ with Micro**Logic** Active

**Catalog References and Spare Parts 2024**
Air Circuit Breakers



November, 2024

se.com

Life Is On | Schneider Electric

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Green Premium™

# ...SUSTAINABILITY READY

Contribute to a better world with Master**PacT** MTZ circuit breakers.

## MicroLogic Active Control Unit
made of Green material (according to SE definition)

MicroLogic Active control unit **is RoHS and REACh compliant**
- Transparent environment information
- Life Cycle Analysis, compliant with ISO14025
- End of life instructions

### Improve an existing offer to act for the climate
### → Decrease resources' consumption

Resource

**Green Material**
- Plastic made of at least **20% bio-based** content in compound
- **>50%CO2 eq. saved** on CO2 manufacturing of the plastic parts based on supplier data compared to same virgin material

**Sustainable packaging**
- **Sustainable cardboard:**
  - Minimum of 70% recycled content
  - Brown natural color to avoid whitening process
- **Single Use Plastic Free**

**Energy efficiency**
- Functions and electronic consumption optimized to answer functional sufficiency compared to previous generation
- Reduced energy consumption by 70% compared to previous generation
  (82 Kg CO2 eq. based on15 years of the product use)

Circular

**Maintenance & Upgradeability**
- Battery front face accessible for maintenance and end of life management
- Control unit compatible with MasterPacT NW/NT to extend lifetime
- Maintenance indicator to deliver maintenance in the right time to ensure the performance over lifetime
- Remaining lifetime indicator for breaker and control unit display directly to customer

Transformer efficiency function to help implementing actions to reduce energy losses

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

# Order your Circuit Breaker


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# Order your Master**PacT** MTZ through digital tools

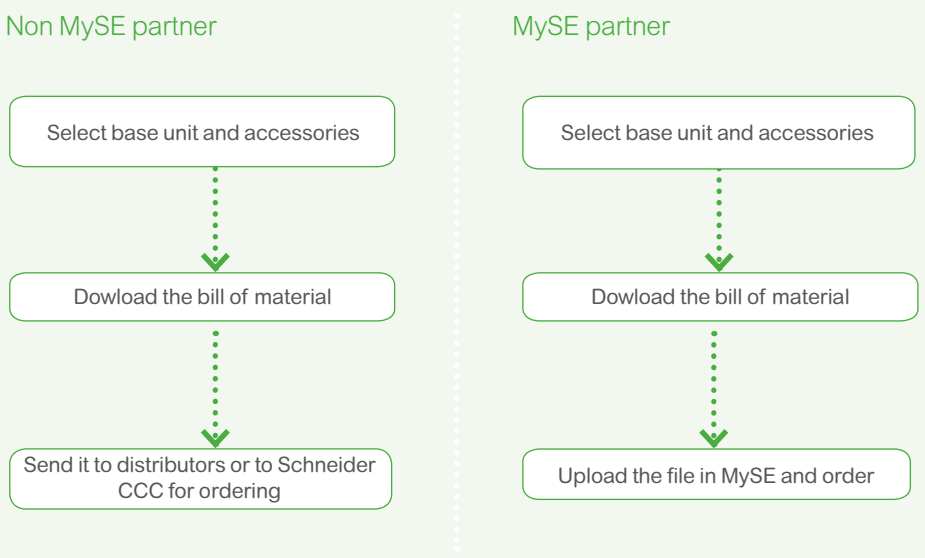
## Product selector

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 plateform of Schneider for partners, offering most of our products.
- **Standard Fixed configuration**

### 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…)

### Ordering process of MasterPacT MTZ with Product Selector

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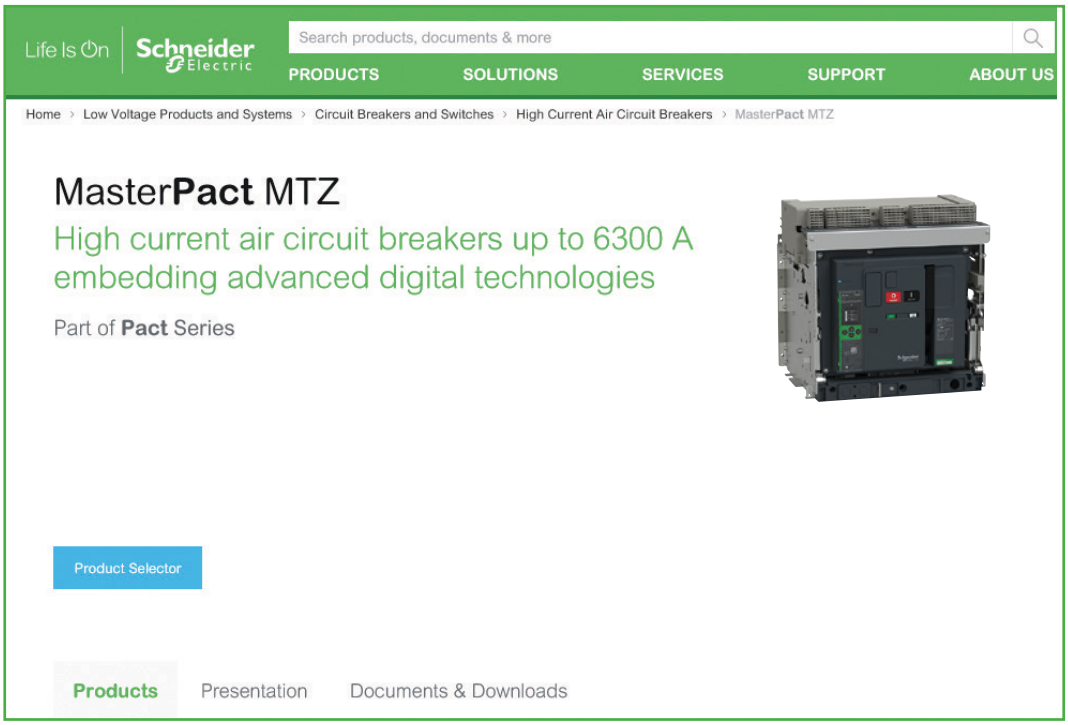
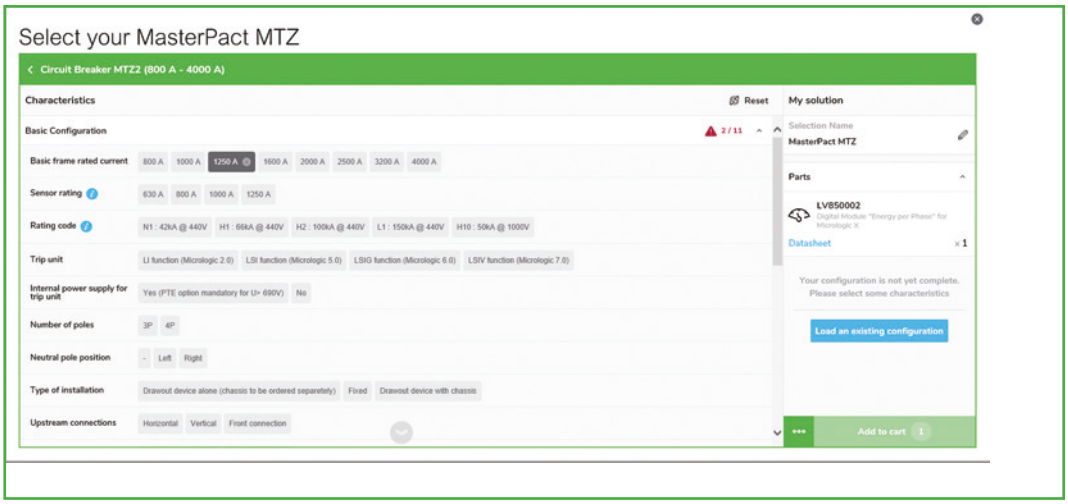
# Order your Master**PacT** MTZ through digital tools

## Product selector

### Go on the range page on www.se.com




### Click on Product Selector and run your selection




**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.

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# Order your Master**PacT** MTZ through digital tools

## Master**PacT** MTZ product code

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

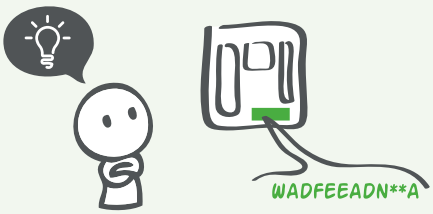
- MasterPacT type: MTZ2
- Rating: 1000 A
- Sensor rating: 800 A
- Performance level: H1
- MicroLogic: Active 5.0
- Number of poles: 4P
- Type of installation: Drawout with chassis
- Connection: Top horizontal bottom horizontal
- Type of communication: ULP + EIFE without I/O module
- Accessories for design and installation simplification and operation efficiency: No
- Accessories for people and property protection: No

**> Product Code: WADFEEADN**A**

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

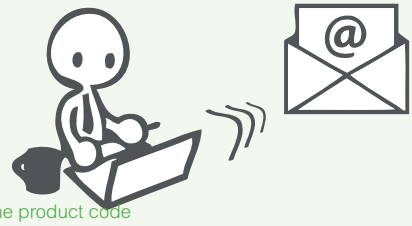
Sending a text message through CCC app with the product code

When you want to know the selection of a circuit breaker




Checking the product code on the physical products

When you want to reorder a circuit breaker




Type in the product code through Product Selector and send order

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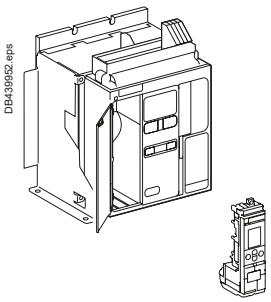
# MTZ1 06 to MTZ1 16 fixed circuit breakers

## Circuit breakers

A MasterPacT fixed circuit breaker is described by 4 catalog 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

| Type H1 - for MicroLogic Active A/E | | | 3P | 4P |
|---|---|---|---|---|
| | In (A at 40 °C) | Icu (kA for U = 220/440 V) - Ics = 100 % Icu | | |
| MTZ1 06 | 630 | 42 | **LV947110** | **LV947115** |
| MTZ1 08 | 800 | 42 | **LV947120** | **LV947125** |
| MTZ1 10 | 1000 | 42 | **LV947130** | **LV947135** |
| MTZ1 12 | 1250 | 42 | **LV947140** | **LV947145** |
| MTZ1 16 | 1600 | 42 | **LV947150** | **LV947155** |

| Type H2 - for MicroLogic Active A/E | | | 3P | 4P |
|---|---|---|---|---|
| | In (A at 40 °C) | Icu (kA for U = 220/440 V) - Ics = 100 % Icu | | |
| MTZ1 06 | 630 | 50 | **LV947113** | **LV947119** |
| MTZ1 08 | 800 | 50 | **LV947123** | **LV947128** |
| MTZ1 10 | 1000 | 50 | **LV947131** | **LV947138** |
| MTZ1 12 | 1250 | 50 | **LV947141** | **LV947147** |
| MTZ1 16 | 1600 | 50 | **LV947151** | **LV947157** |

| Type L1 - for MicroLogic Active A/E | | | 3P | 4P |
|---|---|---|---|---|
| | In (A at 40 °C) | Icu (kA for U = 220/440 V) - Ics = 75 % Icu | | |
| MTZ1 06 | 630 | 150 | **LV947112** | **LV947117** |
| MTZ1 08 | 800 | 150 | **LV947122** | **LV947127** |
| MTZ1 10 | 1000 | 150 | **LV947132** | **LV947137** |

### MicroLogic Active A control unit/No Wireless

| Ammeter only | | 3P/4P |
|---|---|---|
| MicroLogic Active 2.0 A | Basic protection - LI | **LV947282** |
| MicroLogic Active 5.0 A | Selective protection - LSI | **LV947285** |
| MicroLogic Active 6.0 A | Selective + earth-fault protection - LSIG | **LV947286** |

### MicroLogic Active A control unit/Wireless

| Ammeter only | | 3P/4P |
|---|---|---|
| MicroLogic Active 2.0 AP[1] | Basic protection - LI | **LV947282W** |
| MicroLogic Active 5.0 AP[1] | Selective protection - LSI | **LV947285W** |
| MicroLogic Active 6.0 AP[1] | Selective + earth-fault protection - LSIG | **LV947286W** |

### MicroLogic Active E control unit/No Wireless

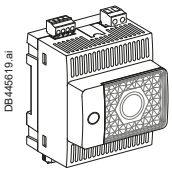
| Ammeter + Voltage / Energy / Power Meter | | 3P/4P |
|---|---|---|
| MicroLogic Active 1.0 E | Protection only - SI | **LV906400** |
| MicroLogic Active 2.0 E | Basic protection - LI | **LV947280** |
| MicroLogic Active 5.0 E | Selective protection - LSI | **LV947283** |
| MicroLogic Active 6.0 E | Selective + earth-fault protection - LSIG | **LV947288** |

### MicroLogic Active E control unit/Wireless

| Ammeter + Voltage / Energy / Power Meter | | 3P/4P |
|---|---|---|
| MicroLogic Active 1.0 EP[1] | Protection only - SI | **LV906400W** |
| MicroLogic Active 2.0 EP[1] | Basic protection - LI | **LV947280W** |
| MicroLogic Active 5.0 EP[1] | Selective protection - LSI | **LV947283W** |
| MicroLogic Active 6.0 EP[1] | Selective + earth-fault protection - LSIG | **LV947288W** |

### Ethernet communication

| | | | |
|---|---|---|---|
| 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** |
| ULP insulation module for MicroLogic Active | | | **LV908000** |
| I/O application module | | | **LV434063** |
| Panel Server | Ethernet/Wi-Fi Gateway | 110-227 V AC/DC 50/60 Hz | **PAS400, PAS600** |
| | | 24 V DC | **PAS600L** |
| | Ethernet/Wi-Fi Gateway and Data logger | 110-227 V AC/DC 50/60 Hz | **PAS800** |
| | | 24 V DC | **PAS800L** |
| | | PoE (Power over Ethernet) | **PAS800P** |




For more information on the **Panel Server,** consult the User Guide **DOCA0172EN.**

[1] Using the wireless function of the MicroLogic requires the installation of a panel server.

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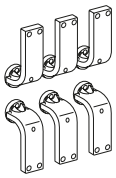
# MTZ1 06 to MTZ1 16 fixed circuit breakers

## Connections

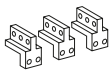
### Front connection


DB117100.eps

| | | 3P | 4P |
|---|---|---|---|
| 630-1600 A | Top | **LV847328** | **LV847330** |
| | Bottom | **LV847329** | **LV847331** |

#### Front connection accessories

Vertical connection adapters 630-1600 A


DB117080.eps

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

Interphase barriers

DB117109.eps

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

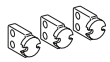
Arc chute screen

DB117090.eps

| | |
|---|---|
| 3P | **LV847335SP** |
| 4P | **LV847336SP** |

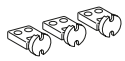
### Rear connection

#### Vertical connection


DB117077.eps

| | | 3P | 4P |
|---|---|---|---|
| 630-1600 A | Top | **LV833604** | **LV833614** |
| | Bottom | **LV833605** | **LV833615** |

#### Horizontal connection


DB117076.eps

| | | 3P | 4P |
|---|---|---|---|
| 630-1600 A | Top | **LV833606** | **LV833616** |
| | Bottom | **LV833607** | **LV833617** |

#### Rear connection accessories

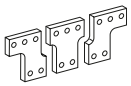
DB117109.eps

Interphase barriers

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

### Common accessories for front and rear connections

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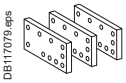
| | | |
|---|---|---|
| 630-1600 A | 3P | **LV833622SP** |
| | 4P | **LV833623SP** |
| For front and horizontal rear connection | | |

#### Cable lug adapters 630-1600 A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| | |
|---|---|
| 3P (3 parts) | **LV833644SP** |
| 4P (4 parts) | **LV833645SP** |

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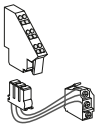
# MTZ1 06 to MTZ1 16 fixed circuit breakers

## Indication contacts and remote operation

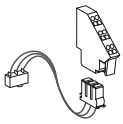
### Indication contacts

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


DB117067.eps

| | |
|---|---|
| Changeover contacts (6 A - 240 V) | 4 (standard) |
| 1 low-level OF to replace 1 standard OF (4 max.) | **LV847339** |

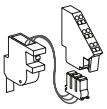
#### “Fault trip” indication contacts (SDE)


DB117069.eps

| | |
|---|---|
| Changeover contact (6 A - 240 V) | 1 (standard) |
| 1 additional SDE (6 A - 240 V) | **LV847340** |
| 1 additional low-level SDE | **LV847341** |

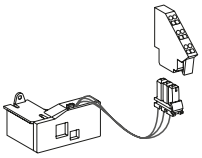
### Remote operation

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


DB117070.eps

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

#### Remote reset after fault trip


DB424641.eps

| | |
|---|---|
| Electrical reset | RES |
| 100/130 V AC | **LV847344** |
| 200/240 V AC | **LV847345** |
| Automatic reset | RAR |
| Adaptation | **LV847346** |

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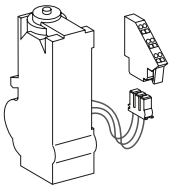
# MTZ1 06 to MTZ1 16 fixed circuit breakers

## Remote operation

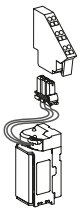
### Remote ON/OFF

#### Gear motor




| | | MCH |
|---|---|---|
| AC 50/60 Hz | 48 V | **LV847391** |
| | 100/130 V | **LV847395** |
| | 200/240 V | **LV847396** |
| | 277/415 V | **LV847398** |
| | 440/480 V | **LV847400** |
| DC | 24/30 V | **LV847390** |
| | 48/60 V | **LV847391** |
| | 100/130 V | **LV847392** |
| | 200/250 V | **LV847393** |

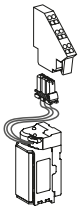
#### Instantaneous voltage releases




| | | Standard | | Reinforced | |
|---|---|---|---|---|---|
| | | Closing release | Opening release | Closing release | Opening release |
| | | XF | MX | XF | MX |
| AC 50/60 Hz | 24/30 V DC, 24 V AC | **LV947350** | **LV947360** | **LV847350** | **LV847360** |
| DC | 48/60 V DC, 48 V AC | **LV947351** | **LV947361** | **LV847351** | **LV847361** |
| | 100/130 V AC/DC | **LV947352** | **LV947362** | **LV847352** | **LV847362** |
| | 200/250 V AC/DC | **LV947353** | **LV947363** | **LV847353** | **LV847363** |
| | 277 V AC | **LV947354** | **LV947364** | **LV847354** | **LV847364** |
| | 380/480 V AC | **LV947355** | **LV947365** | **LV847355** | **LV847365** |
| | | MN | | MN | |
| AC 50/60 Hz | 24/30 V DC, 24 V AC | **LV947380** | | **LV847380** | |
| DC | 48/60 V DC, 48 V AC | **LV947381** | | **LV847381** | |
| | 100/130 V AC/DC | **LV947382** | | **LV847382** | |
| | 200/250 V AC/DC | **LV947383** | | **LV847383** | |
| | 380/480 V AC | **LV947385** | | **LV847385** | |

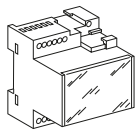
### Remote tripping

#### Instantaneous voltage release




| | | 2nd MX [1] | |
|---|---|---|---|
| | | Standard | Reinforced |
| AC 50/60 Hz | 24/30 V DC, 24 V AC | **LV947370** | **LV847370** |
| DC | 48/60 V DC, 48 V AC | **LV947371** | **LV847371** |
| | 100/130 V AC/DC | **LV947372** | **LV847372** |
| | 200/250 V AC/DC | **LV947373** | **LV847373** |
| | 277 V AC | **LV947374** | **LV847374** |
| | 380/480 V AC | **LV947375** | **LV847375** |

#### MN delay unit




| | | R (non-adjustable) | Rr (adjustable) |
|---|---|---|---|
| AC 50/60 Hz | 48/60 V AC/DC | | **LV833680SP** |
| DC | 100/130 V AC/DC | **LV833684SP** | **LV833681SP** |
| | 200/250 V AC/DC | **LV833685SP** | **LV833682SP** |
| | 380/480 V AC/DC | | **LV833683SP** |

[1] Not compatible with any version of MN coils.

H

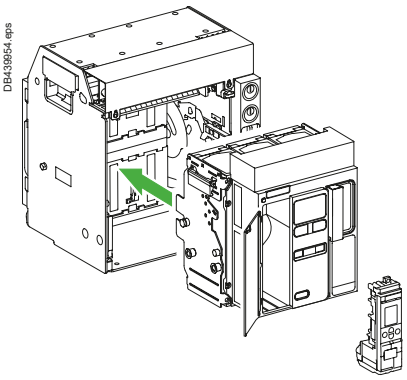
# MTZ1 06 to MTZ1 16 drawout circuit breakers

## Circuit breakers

A MasterPacT drawout circuit breaker is described by minimum 5 catalog 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 - for MicroLogic Active A/E | | | 3P | 4P |
|---|---|---|---|---|
| | In (A at 40 °C) | Icu (kA for U = 220/440 V) - Ics = 100 % Icu | | |
| MTZ1 06 | 630 | 42 | **LV947200** | **LV947205** |
| MTZ1 08 | 800 | 42 | **LV947210** | **LV947215** |
| MTZ1 10 | 1000 | 42 | **LV947220** | **LV947225** |
| MTZ1 12 | 1250 | 42 | **LV947230** | **LV947235** |
| MTZ1 16 | 1600 | 42 | **LV947240** | **LV947245** |

| Type H2 - for MicroLogic Active A/E | | | 3P | 4P |
|---|---|---|---|---|
| | In (A at 40 °C) | Icu (kA for U = 220/440 V) - Ics = 100 % Icu | | |
| MTZ1 06 | 630 | 50 | **LV947203** | **LV947209** |
| MTZ1 08 | 800 | 50 | **LV947211** | **LV947218** |
| MTZ1 10 | 1000 | 50 | **LV947221** | **LV947228** |
| MTZ1 12 | 1250 | 50 | **LV947231** | **LV947237** |
| MTZ1 16 | 1600 | 50 | **LV947241** | **LV947247** |

| Type L1 - for MicroLogic Active A/E | | | 3P | 4P |
|---|---|---|---|---|
| | In (A at 40 °C) | Icu (kA for U = 220/415 V) - Ics = 100 % Icu | | |
| MTZ1 06 | 630 | 150 | **LV947202** | **LV947207** |
| MTZ1 08 | 800 | 150 | **LV947212** | **LV947217** |
| MTZ1 10 | 1000 | 150 | **LV947222** | **LV947227** |

### MicroLogic Active A control unit/No Wireless

| Ammeter Only | | 3P/4P |
|---|---|---|
| MicroLogic Active 2.0 A | Basic protection - LI | **LV965304** |
| MicroLogic Active 5.0 A | Selective protection - LSI | **LV965305** |
| MicroLogic Active 6.0 A | Selective + earth-fault protection - LSIG | **LV965306** |

### MicroLogic Active A control unit/Wireless

| Ammeter Only | | 3P/4P |
|---|---|---|
| MicroLogic Active 2.0 AP[1] | Basic protection - LI | **LV965304W** |
| MicroLogic Active 5.0 AP[1] | Selective protection - LSI | **LV965305W** |
| MicroLogic Active 6.0 AP[1] | Selective + earth-fault protection - LSIG | **LV965306W** |

### MicroLogic Active E control unit/No Wireless

| Ammeter + Voltage / Energy / Power Meter | | 3P/4P |
|---|---|---|
| MicroLogic Active 1.0 E | Protection only - SI | **LV906403** |
| MicroLogic Active 2.0 E | Basic protection - LI | **LV947284** |
| MicroLogic Active 5.0 E | Selective protection - LSI | **LV948499** |
| MicroLogic Active 6.0 E | Selective + earth-fault protection - LSIG | **LV947292** |

### MicroLogic Active E control unit/Wireless

| Ammeter + Voltage / Energy / Power Meter | | 3P/4P |
|---|---|---|
| MicroLogic Active 1.0 EP[1] | Protection only - SI | **LV906403W** |
| MicroLogic Active 2.0 EP[1] | Basic protection - LI | **LV947281W** |
| MicroLogic Active 5.0 EP[1] | Selective protection - LSI | **LV947284W** |
| MicroLogic Active 6.0 EP[1] | Selective + earth-fault protection - LSIG | **LV947292W** |

### Chassis

| For type H1 - H2 - H3 | 3P | 4P |
|---|---|---|
| 630-1250 A | **LV833722** | **LV833725** |
| 1600 A | **LV833723** | **LV833726** |
| **For type L1** | 3P | 4P |
| 630-1000 A | **LV833723** | **LV833726** |

Auxiliaries and accessories:
for drawout devices: see page H-14.
for fixed or drawout devices: see page H-14.
Source changeover assembly: see page H-14.

# 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: COM, 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
- PTE

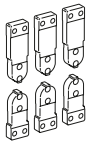
all the necessary chassis terminal blocks are coded by one of the part numbers below:

| | |
|---|---|
| Chassis terminal block for PTE | **LV839461** |
| Chassis terminal block for SDE2 | **LV839462** |
| Chassis terminal blocks for PTE + SDE2 | **LV839463** |

### Ethernet communication option - for MicroLogic Active

| | | | |
|---|---|---|---|
| ULP port | | | **LV850064** |
| IFM | Modbus interface | | **LV434000** |
| EIFE | Embedded ethernet interface for LV breaker | | **LV851100** |
| IFE | Ethernet interface for LV breaker | | **LV434001** |
| | Ethernet interface for LV breakers and gateway | | **LV434002** |
| I/O application module | | | **LV434063** |
| Panel Server | Ethernet/Wi-Fi Gateway | 110-227 V AC/DC 50/60 Hz | **PAS400, PAS600** |
| | | 24 V DC | **PAS600L** |
| | Ethernet/Wi-Fi Gateway and Data logger | 110-227 V AC/DC 50/60 Hz | **PAS800** |
| | | 24 V DC | **PAS800L** |
| | | PoE (Power over Ethernet) | **PAS800P** |

### Chassis front connection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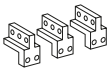
| | | 3P | 4P |
|---|---|---|---|
| 630-1600 A | Top | **LV833727** | **LV833733** |
| | Bottom | **LV833728** | **LV833734** |

#### Front connection accessories

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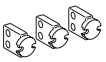
| | |
|---|---|
| 3P (3 parts) | **LV833642SP** |
| 4P (4 parts) | **LV833643SP** |

### Chassis rear connection

#### Vertical connection


DB117077.eps

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

#### Horizontal connection

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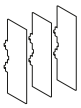
| | | 3P | 4P |
|---|---|---|---|
| 630-1600 A | Top | **LV833731** | **LV833737** |
| | Bottom | **LV833732** | **LV833738** |

#### Rear connection accessories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Interphase barriers [1]

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

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

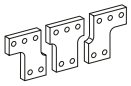

Life Is On Schneider Electric

# MTZ1 06 to MTZ1 16 drawout circuit breakers

## Chassis locking and accessories

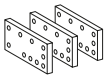
### Common accessories for front and rear connection

#### Spreaders


DB117075.eps

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

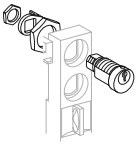
#### Cable lug adapters 630-1600 A


DB117079.eps

| | |
|---|---|
| 3P (3 parts) | **LV833644SP** |
| 4P (4 parts) | **LV833645SP** |

### Chassis locking

#### "Disconnected" position locking


DB117108.eps

| | | |
|---|---|---|
| **By padlocks** | | |
| | VCPO | Standard |
| **By Profalux keylocks** | | |
| Profalux | 1 lock with 1 key + adaptation kit | **LV833773** |
| | 2 locks 1 key + adaptation kit | **LV833774** |
| | 2 locks 2 different keys + adaptation kit | **LV833775** |
| **By Ronis keylocks** | | |
| Ronis | 1 lock with 1 key + adaptation kit | **LV833776** |
| | 2 locks 1 key + adaptation kit | **LV833777** |
| | 2 locks 2 different keys + adaptation kit | **LV833778** |
| Optional disconnected/test/connected position locking | | **LV833779** |
| Adaptation kit (without keylock): | adaptation kit Profalux / Ronis | **LV833769SP** |
| | adaptation kit Castell | **LV833771SP** |
| | adaptation kit Kirk | **LV833772SP** |

#### Door interlock (1 part)

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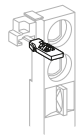
| | |
|---|---|
| Right-hand side of chassis (VPECD) | **LV833786** |
| Left-hand side of chassis (VPECG) | **LV833787** |

#### Racking interlock


DB424644.eps

| | |
|---|---|
| Racking interlock (VPOC) | **LV833788** |

#### Breaker mismatch protection

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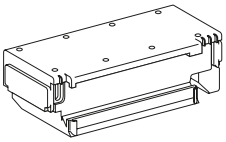
| | |
|---|---|
| Breaker mismatch protection (VDC) | **LV833767SP** |

### Chassis accessories

#### Arc chute cover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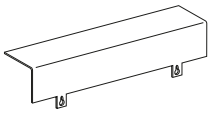
| | |
|---|---|
| 3P/4P | Standard |

#### Auxiliary terminal shield (CB)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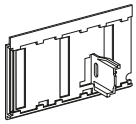
| | | |
|---|---|---|
| Terminal shield | 3P | **LV833763** |
| | 4P | **LV833764** |

#### Safety shutters as standard


DB117103.eps

| | | |
|---|---|---|
| Safety shutters (VO) | 3P | Standard |
| | 4P | Standard |

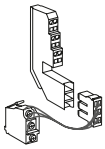
H

# MTZ1 06 to MTZ1 16 drawout circuit breakers

## Indication contacts and remote operation

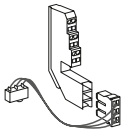
### Indication contacts

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


DB117063.eps

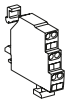
| | |
|---|---|
| Changeover contacts (6 A - 240 V) | 4 (standard) |
| 1 low-level OF to replace 1 standard OF (4 max.) | **LV833806** |

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


DB117068.eps

| | |
|---|---|
| Changeover contact (6 A - 240 V) | 1 (standard) |
| 1 additional SDE (6 A - 240 V) | **LV847430** |
| 1 additional low-level SDE | **LV847431** |

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


DB117061.eps

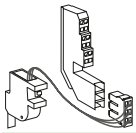
| | |
|---|---|
| Changeover contacts (6 A - 240 V) | |
| 1 connected position contact (3 max.) | **LV833751** |
| 1 test position contact (1 max.) | **LV833752** |
| 1 disconnected position contact (2 max.) | **LV833753** |
| And/or low-level changeover contacts | |
| 1 connected position contact (3 max.) | **LV833754** |
| 1 test position contact (1 max.) | **LV833755** |
| 1 disconnected position contact (2 max.) | **LV833756** |

#### Auxiliary terminals for chassis alone

| | |
|---|---|
| 3 wire terminal (30 parts) | **LV847071SP** |
| 6 wire terminal (10 parts) | **LV847072SP** |
| Jumpers (10 parts) | **LV847900SP** |

### Remote operation

#### "Ready to close" contact (1 max.)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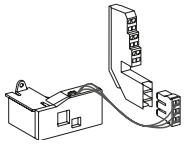
| | |
|---|---|
| | PF |
| 1 changeover contact (5 A - 240 V) | **LV847432** |
| 1 low-level changeover contact | **LV847433** |

#### Remote reset after fault trip


DB117062.eps

| | |
|---|---|
| Electrical reset | RES |
| 100/130 V AC | **LV847434** |
| 200/240 V AC | **LV847435** |
| Automatic reset | RAR |
| Adaptation | **LV847346** |

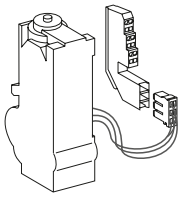
H

# MTZ1 06 to MTZ1 16 drawout circuit breakers

## Remote operation

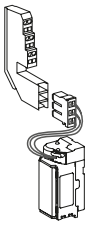
### Remote ON/OFF

#### Gear motor




| | | MCH |
|---|---|---|
| AC 50/60 Hz | 48 V | **LV847461** |
| | 100/130 V | **LV847465** |
| | 200/240 V | **LV847466** |
| | 277/415 V | **LV847468** |
| | 440/480 V | **LV847470** |
| DC | 24/30 V | **LV847460** |
| | 48/60 V | **LV847461** |
| | 100/130 V | **LV847462** |
| | 200/250 V | **LV847463** |

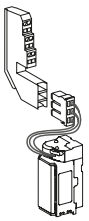
#### Instantaneous voltage releases




| | | Standard | | Reinforced | |
|---|---|---|---|---|---|
| | | Closing release XF | Opening release MX | Closing release XF | Opening release MX |
| AC 50/60 Hz DC | 24/30 V DC, 24 V AC | **LV947440** | **LV933810** | **LV847440** | **LV833810** |
| | 48/60 V DC, 48 V AC | **LV947441** | **LV933811** | **LV847441** | **LV833811** |
| | 100/130 V AC/DC | **LV947442** | **LV933812** | **LV847442** | **LV833812** |
| | 200/250 V AC/DC | **LV947443** | **LV933813** | **LV847443** | **LV833813** |
| | 277 V AC | **LV947444** | **LV933814** | **LV847444** | **LV833814** |
| | 380/480 V AC | **LV947445** | **LV933815** | **LV847445** | **LV833815** |
| | | MN | | | MN |
| AC 50/60 Hz DC | 24/30 V DC, 24 V AC | **LV933819** | | | **LV833819** |
| | 48/60 V DC, 48 V AC | **LV933820** | | | **LV833820** |
| | 100/130 V AC/DC | **LV933821** | | | **LV833821** |
| | 200/250 V AC/DC | **LV933822** | | | **LV833822** |
| | 380/480 V AC | **LV933824** | | | **LV833824** |

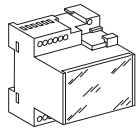
### Remote tripping

#### Instantaneous voltage release




| | | 2nd MX [1] | |
|---|---|---|---|
| | | Standard | Reinforced |
| AC 50/60 Hz DC | 24/30 V DC, 24 V AC | **LV947450** | **LV847450** |
| | 48/60 V DC, 48 V AC | **LV947451** | **LV847451** |
| | 100/130 V AC/DC | **LV947452** | **LV847452** |
| | 200/250 V AC/DC | **LV947453** | **LV847453** |
| | 277 V AC | **LV947454** | **LV847454** |
| | 380/480 V AC | **LV947455** | **LV847455** |

#### MN delay unit



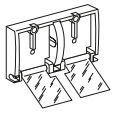

| | | R (non-adjustable) | Rr (adjustable) |
|---|---|---|---|
| AC 50/60 Hz DC | 48/60 V AC/DC | | **LV833680SP** |
| | 100/130 V AC/DC | **LV833684SP** | **LV833681SP** |
| | 200/250 V AC/DC | **LV833685SP** | **LV833682SP** |
| | 380/480 V AC/DC | | **LV833683SP** |

**[1]** Not compatible with any version of MN coils.

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

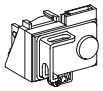
## Circuit breaker locking

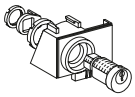
### Pushbutton locking device


DB117058.eps

| | |
|---|---|
| By padlocks | **LV833897** |

### OFF position locking


DB424648.eps


DB117101.eps

| | | |
|---|---|---|
| **By padlocks + BPFE support** | | |
| | VCPO | **LV847514** |
| **By Profalux keylocks** | | |
| Profalux | 1 lock with 1 key + adaptation kit | **LV847519** |
| | 2 locks 1 key + adaptation kit | **LV847520** |
| **By Ronis keylocks** | | |
| Ronis | 1 lock with 1 key + adaptation kit | **LV847521** |
| | 2 locks 1 key + adaptation kit | **LV847522** |
| Adaptation kit (without keylock): | adaptation kit Profalux / Ronis | **LV847515SP** |
| | adaptation kit Kirk | **LV847517SP** |
| | adaptation kit Castell | **LV847518SP** |

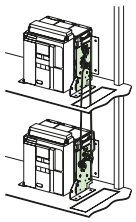
## Cable-type door interlock

DB117091.eps

| | |
|---|---|
| 1 complete assembly for MasterPacT MTZ1 fixed devices | **LV833920SP** |
| 1 complete assembly for MasterPacT MTZ1 drawout devices | **LV833921SP** |

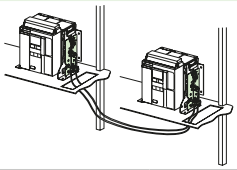
## Mechanical interlocking for source changeover

### Interlocking using connecting rods


DB421418.eps

| | |
|---|---|
| Choose 1 kit of 2 adaptation fixtures + 1 set of rods | |
| Kit of 2 MasterPacT MTZ1 adaptation fixtures for fixed devices | **LV833203SP** |
| Kit of 2 Msterpact MTZ1 adaptation fixtures for drawout devices | **LV833204SP** |
| 1 set of 2 interlocking rods | **LV833210SP** |

### Interlocking using cables [1]


DB421419.eps

| | |
|---|---|
| Choose 2 adaptation fixtures (1 for each breaker) + 1 set of cables | |
| 1 adaptation fixture for MasterPacT MTZ1 fixed devices | **LV833200SP** |
| 1 adaptation fixture for MasterPacT MTZ1 drawout devices | **LV833201SP** |
| 1 set of 2 cables | **LV833209SP** |

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

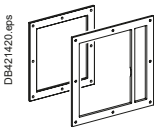
## Other circuit breaker accessories

### Mechanical operation counter

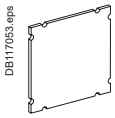
DB117057.eps

| | |
|---|---|
| Operation counter CDM | **LV833895** |

### Escutcheon and accessories


DB421420.eps

DB117055.eps


DB117053.eps

| | Fixed | Drawout |
|---|---|---|
| Escutcheon | **LV833718SP** | **LV833857SP** |
| Transparent cover (IP54) | | **LV833859SP** |
| Escutcheon blanking plate | | **LV833858SP** |

Escutcheon Cover Blanking plate

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

## Accessories for MicroLogic control units

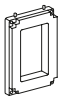
### External sensors

#### External sensor for earth-leakage protection (TCE)

DB421348.ai

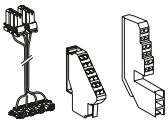
| | |
|---|---|
| Sensor rating 400/1600 A | **LV833576SP** |

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


DB421429.eps

| | |
|---|---|
| External sensor (SGR) | **LV833579SP** |
| MDGF summing module | **LV848891SP** |

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

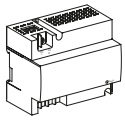

DB424867.eps

| | | |
|---|---|---|
| Voltage measurement input | Fixed/MicroLogic Active | **LV947506** |
| | Drawout/MicroLogic Active | **LV947507** |

### Zone Selective Interlocking option for MicroLogic Active

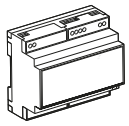
| | |
|---|---|
| ZSI | Standard |

### External power supply module (AD)


DB432608.eps

| | |
|---|---|
| 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 (RIM)


DB445620.ai

| | |
|---|---|
| 24 V DC | **LV848892SP** |

## Test & Commissioning equipment

### Insulation Box (MicroLogic Active for NT NW retrofit)

DB445621.ai

| | |
|---|---|
| | **LV910200SP** |

### Mobile Power Pack for MicroLogic Active A/E (by APC)

DB421410.eps

| | |
|---|---|
| | **LV850055SP** |

## Special settings

To be specified when ordering

| Sensors rating | MTZ1 06 | MTZ1 08 | MTZ1 10 | MTZ1 12 | MTZ1 16 |
|---|---|---|---|---|---|
| 400 | ■ | ■ | ■ | ■ | ■ |
| 630 | | ■ | ■ | ■ | ■ |
| 800 | | | ■ | ■ | ■ |
| 1000 | | | | ■ | ■ |
| 1250 | | | | | ■ |
| 1600 | | | | | |

H

# MTZ2 08 to MTZ3 63 fixed circuit breakers

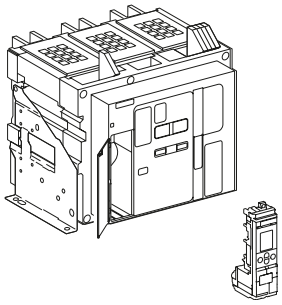
## Circuit breakers

A MasterPacT fixed circuit breaker is described by 4 catalog numbers corresponding to:

- The basic circuit breaker
- A control unit
- A top connection
- A bottom connection.

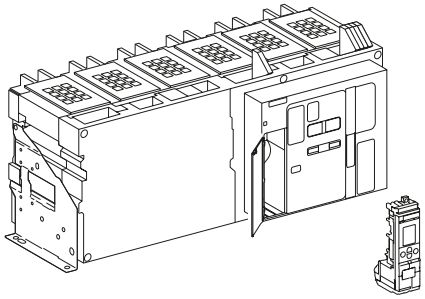
A communication option and various auxiliaries and accessories may also be added.

DB439956.eps



Basic circuit breaker ≤ 4000 A.

DB439957.eps



Basic circuit breaker ≥ 4000 A.

Using the wireless function of the MicroLogic requires the installation of a panel server.

[1] Select a 4P basic circuit breaker with neutral on the right page H-31.
All other catalogue numbers are unchanged.

### Basic circuit breaker

#### Type N1 - for MicroLogic Active

| | In (A at 40 °C) | Icu (kA for U = 220/440 V) - Ics = 100 % Icu | 3P | 4P |
|---|---|---|---|---|
| MTZ2 08 | 800 | 42 | **LV948000** | **LV948007** |
| MTZ2 10 | 1000 | 42 | **LV948014** | **LV948021** |
| MTZ2 12 | 1250 | 42 | **LV948028** | **LV948035** |
| MTZ2 16 | 1600 | 42 | **LV948042** | **LV948049** |
| MTZ2 20 | 2000 | 42 | **LV948056** | **LV948063** |

#### Type H1 - for MicroLogic Active

| | In (A at 40 °C) | Icu (kA for U = 220/440 V) - Ics = 100 % Icu | 3P | 4P |
|---|---|---|---|---|
| MTZ2 08 | 800 | 66 | **LV948001** | **LV948008** |
| MTZ2 10 | 1000 | 66 | **LV948015** | **LV948022** |
| MTZ2 12 | 1250 | 66 | **LV948029** | **LV948036** |
| MTZ2 16 | 1600 | 66 | **LV948043** | **LV948050** |
| MTZ2 20 | 2000 | 66 | **LV948057** | **LV948064** |
| MTZ2 25 | 2500 | 66 | **LV948070** | **LV948076** |
| MTZ2 32 | 3200 | 66 | **LV948082** | **LV948087** |
| MTZ2 40 | 4000 | 66 | **LV948092** | **LV948097** |
| MTZ3 40 | 4000 | 100 | **LV948106** | **LV948109** |
| MTZ3 50 | 5000 | 100 | **LV948112** | **LV948115** |
| MTZ3 63 | 6300 | 100 | **LV948118** | **LV948121** |

#### Type H2 - for MicroLogic Active

| | In (A at 40 °C) | Icu (kA for U = 220/440 V) - Ics = 100 % Icu | 3P | 4P |
|---|---|---|---|---|
| MTZ2 08 | 800 | 100 | **LV948002** | **LV948009** |
| MTZ2 10 | 1000 | 100 | **LV948016** | **LV948023** |
| MTZ2 12 | 1250 | 100 | **LV948030** | **LV948037** |
| MTZ2 16 | 1600 | 100 | **LV948044** | **LV948051** |
| MTZ2 20 | 2000 | 100 | **LV948058** | **LV948065** |
| MTZ2 25 | 2500 | 100 | **LV948071** | **LV948077** |
| MTZ2 32 | 3200 | 100 | **LV948083** | **LV948088** |
| MTZ2 40 | 4000 | 100 | **LV948093** | **LV948098** |
| MTZ3 40 | 4000 | 150 | **LV948107** | **LV948110** |
| MTZ3 50 | 5000 | 150 | **LV948113** | **LV948116** |
| MTZ3 63 | 6300 | 150 | **LV948119** | **LV948122** |

#### Option

| | |
|---|---|
| Neutral on the right | [1] |

### MicroLogic Active A control unit/No Wireless

#### Ammeter only

| | | 3P/4P |
|---|---|---|
| MicroLogic Active 2.0 A | Basic protection - LI | **LV947282** |
| MicroLogic Active 5.0 A | Selective protection - LSI | **LV947285** |
| MicroLogic Active 6.0 A | Selective + earth-fault protection - LSIG | **LV947286** |

### MicroLogic Active A control unit/Wireless

#### Ammeter only

| | | 3P/4P |
|---|---|---|
| MicroLogic Active 2.0 AP | Basic protection - LI | **LV947282W** |
| MicroLogic Active 5.0 AP | Selective protection - LSI | **LV947285W** |
| MicroLogic Active 6.0 AP | Selective + earth-fault protection - LSIG | **LV947286W** |

### MicroLogic Active E control unit/No Wireless

#### Ammeter + Voltage / Energy / Power Meter

| | | 3P/4P |
|---|---|---|
| MicroLogic Active 1.0 E | Protection only - SI | **LV906400** |
| MicroLogic Active 2.0 E | Basic protection - LI | **LV947280** |
| MicroLogic Active 5.0 E | Selective protection - LSI | **LV947283** |
| MicroLogic Active 6.0 E | Selective + earth-fault protection - LSIG | **LV947288** |

### MicroLogic Active EP control unit/Wireless

#### Ammeter + Voltage / Energy / Power Meter

| | | 3P/4P |
|---|---|---|
| MicroLogic Active 1.0 EP | Protection only - SI | **LV906400W** |
| MicroLogic Active 2.0 EP | Basic protection - LI | **LV947280W** |
| MicroLogic Active 5.0 EP | Selective protection - LSI | **LV947283W** |
| MicroLogic Active 6.0 EP | Selective + earth-fault protection - LSIG | **LV947288W** |

# MTZ2 08 to MTZ3 63 fixed circuit breakers

## Circuit breakers

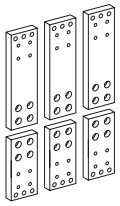
### Communication option

| | | | |
|---|---|---|---|
| ULP Port | | | **LV850061** |
| IFE | Ethernet interface for LV breaker | | **LV434001** |
| | Ethernet interface for LV breakers and gateway | | **LV434002** |
| IFM | Modbus interface | | **LV434000** |
| I/O application module | | | **LV434063** |
| ULP Insulation module | | | **LV908000** |
| Panel Server | Ethernet/Wi-Fi Gateway | 110-227 V AC/DC 50/60 Hz | **PAS400, PAS600** |
| | | 24 V DC | **PAS600L** |
| | Ethernet/Wi-Fi Gateway and Data logger | 110-227 V AC/DC 50/60 Hz | **PAS800** |
| | | 24 V DC | **PAS800L** |
| | | PoE (Power over Ethernet) | **PAS800P** |

Auxiliaries and accessories:
for fixed devices: see page H-29.
for fixed or drawout devices: see page H-29.
Source changeover assembly: see page H-29.

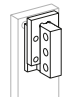
# MTZ2 08 to MTZ3 63 fixed circuit breakers
## Connections

### Front connection




| | | 3P | 4P |
|---|---|---|---|
| 800-1600 A | Top | **LV848128** | **LV848153** |
| | Bottom | **LV848130** | **LV848155** |
| 2000 A | Top | **LV848124** | **LV848126** |
| | Bottom | **LV848125** | **LV848127** |
| 2500/3200 A | Top | **LV848129** | **LV848154** |
| | Bottom | **LV848131** | **LV848156** |

#### Front connection accessories

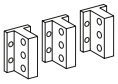



Disconnectable front connection

| | 3P | 4P |
|---|---|---|
| 1600 A | **LV848421SP** | **LV848424SP** |
| 2000/3200 A | **LV848422SP** | **LV848425SP** |

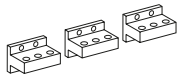
### Rear connection

#### Vertical connection




| | | 3P | 4P |
|---|---|---|---|
| 800-2000 A | Top | **LV848133** | **LV848158** |
| 800-1600 A type L1 | Bottom | **LV848138** | **LV848163** |
| 2500/3200 A | Top | **LV848134** | **LV848159** |
| 2000 A types H3/L1 | Bottom | **LV848139** | **LV848164** |
| 4000 A | Top | **LV848135** | **LV848160** |
| | Bottom | **LV848140** | **LV848165** |
| 4000/5000 A | Top | **LV848136** | **LV848161** |
| | Bottom | **LV848141** | **LV848166** |
| 6300 A | Top | **LV848137** | **LV848162** |
| | Bottom | **LV848142** | **LV848167** |

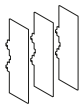
#### Horizontal connection




| | | 3P | 4P |
|---|---|---|---|
| 800-2000 A | Top | **LV848143** | **LV848168** |
| 800-1600 A type L1 | Bottom | **LV848148** | **LV848173** |
| 2500/3200 A | Top | **LV848144** | **LV848169** |
| 2000 A types H3/L1 | Bottom | **LV848149** | **LV848174** |
| 4000 A | Top | **LV848145** | **LV848170** |
| | Bottom | **LV848150** | **LV848175** |
| 4000/5000 A | Top | **LV848146** | **LV848171** |
| | Bottom | **LV848151** | **LV848176** |

#### Rear connection accessories

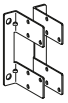
Interphase barriers [1]




| | |
|---|---|
| 3P/4P (3 parts) | **LV848599SP** |

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

Brackets for mounting on a backplate




| | |
|---|---|
| 2 parts | **LV847829** |

### Grounding kit

| | |
|---|---|
| Grounding kit for MasterPacT MTZ2/MTZ3 fixed | **LV848558** |

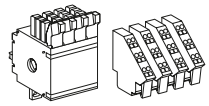
H

# MTZ2 08 to MTZ3 63 fixed circuit breakers

## Indication contacts and remote operation

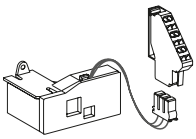
### Indication contacts

#### 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** |

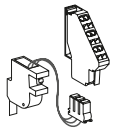
#### "Fault trip" indication contacts (SDE)




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

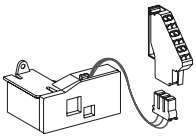
### Remote operation

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




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

#### Remote reset after fault trip




| | |
|---|---|
| Electrical reset | RES |
| 100/130 V AC | **LV848202** |
| 200/240 V AC | **LV848203** |
| Automatic reset | RAR |
| Adaptation | **LV847346** |

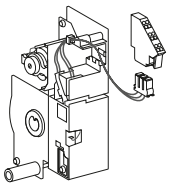
H

# MTZ2 08 to MTZ3 63 fixed circuit breakers

## Remote operation

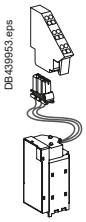
### Remote ON/OFF

#### Gear motor




| | | MCH |
|---|---|---|
| AC 50/60 Hz | 48 V | **LV848207** |
| | 100/130 V | **LV848211** |
| | 200/240 V | **LV848212** |
| | 250/277 V | **LV848213** |
| | 380/415 V | **LV848214** |
| | 440/480 V | **LV848215** |
| DC | 24/30 V | **LV848206** |
| | 48/60 V | **LV848207** |
| | 100/130 V | **LV848208** |
| | 200/250 V | **LV848209** |

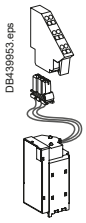
#### Instantaneous voltage releases




| | | Standard | | Reinforced | |
|---|---|---|---|---|---|
| | | Closing release | Opening release | Closing release | Opening release |
| | | XF | MX | XF | MX |
| AC 50/60 Hz | 24/30 V DC, 24 V AC | **LV847350** | **LV947360** | **LV847350** | **LV847360** |
| DC | 48/60 V DC, 48 V AC | **LV847351** | **LV947361** | **LV847351** | **LV847361** |
| | 100/130 V AC/DC | **LV847352** | **LV947362** | **LV847352** | **LV847362** |
| | 200/250 V AC/DC | **LV847353** | **LV947363** | **LV847353** | **LV847363** |
| | 277 V AC | **LV847354** | **LV947364** | **LV847354** | **LV847364** |
| | 380/480 V AC | **LV847355** | **LV947365** | **LV847355** | **LV847365** |
| | | Opening release | | Opening release | |
| Standard | | MN | | MN | |
| AC 50/60 Hz | 24/30 V DC, 24 V AC | **LV947380** | | **LV847380** | |
| DC | 48/60 V DC, 48 V AC | **LV947381** | | **LV847381** | |
| | 100/130 V AC/DC | **LV947382** | | **LV847382** | |
| | 200/250 V AC/DC | **LV947383** | | **LV847383** | |
| | 380/480 V AC | **LV947385** | | **LV847385** | |

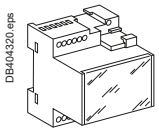
### Remote tripping

#### Instantaneous voltage release




| | | 2nd MX [1] | |
|---|---|---|---|
| | | Standard | Reinforced |
| AC 50/60 Hz | 24/30 V DC, 24 V AC | **LV947370** | **LV847370** |
| DC | 48/60 V DC, 48 V AC | **LV947371** | **LV847371** |
| | 100/130 V AC/DC | **LV947372** | **LV847372** |
| | 200/250 V AC/DC | **LV947373** | **LV847373** |
| | 277 V AC | **LV947374** | **LV847374** |
| | 380/480 V AC | **LV947375** | **LV847375** |

#### MN delay unit




| | | R (non-adjustable) | Rr (adjustable) |
|---|---|---|---|
| AC 50/60 Hz | 48/60 V AC/DC | | **LV833680SP** |
| DC | 100/130 V AC/DC | **LV833684SP** | **LV833681SP** |
| | 200/250 V AC/DC | **LV833685SP** | **LV833682SP** |
| | 380/480 V AC/DC | | **LV833683SP** |

**[1]** Not compatible with any version of MN coils.

H

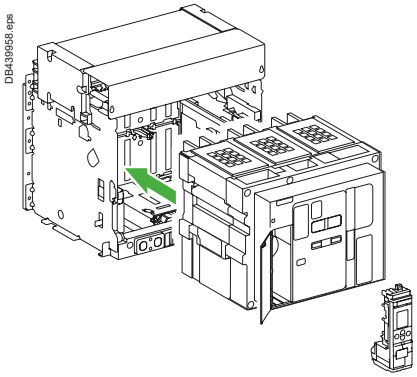
# MTZ2 08 to MTZ3 63 drawout circuit breakers

## Circuit breakers

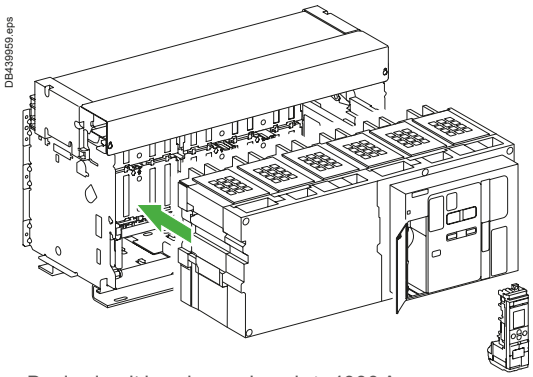
A MasterPacT drawout circuit breaker is described by minimum 5 catalog numbers corresponding to:

- 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 + chassis ≤ 4000 A




Basic circuit breaker + chassis ≥ 4000 A

[1] Select a 4P basic circuit breaker with neutral on the right page H-31.
All other catalogue numbers are unchanged.

### Basic circuit breaker

| | | | 3P | 4P |
|---|---|---|---|---|
| **Type N1 - for MicroLogic Active** | | | | |
| | In (A at 40 °C) | Icu (kA for U = 220/440 V) - Ics = 100 % Icu | | |
| MTZ2 08 | 800 | 42 | **LV948230** | **LV948237** |
| MTZ2 10 | 1000 | 42 | **LV948244** | **LV948251** |
| MTZ2 12 | 1250 | 42 | **LV948258** | **LV948265** |
| MTZ2 16 | 1600 | 42 | **LV948272** | **LV948279** |
| MTZ2 20 | 2000 | 42 | **LV948286** | **LV948293** |
| **Type H1 - for MicroLogic Active** | | | | |
| | In (A at 40 °C) | Icu (kA for U = 220/440 V) - Ics = 100 % Icu | | |
| MTZ2 08 | 800 | 66 | **LV948231** | **LV948238** |
| MTZ2 10 | 1000 | 66 | **LV948245** | **LV948252** |
| MTZ2 12 | 1250 | 66 | **LV948259** | **LV948266** |
| MTZ2 16 | 1600 | 66 | **LV948273** | **LV948280** |
| MTZ2 20 | 2000 | 66 | **LV948287** | **LV948294** |
| MTZ2 25 | 2500 | 66 | **LV948300** | **LV948306** |
| MTZ2 32 | 3200 | 66 | **LV948312** | **LV948317** |
| MTZ2 40 | 4000 | 66 | **LV948322** | **LV948327** |
| MTZ3 40 | 4000 | 100 | **LV948336** | **LV948339** |
| MTZ3 50 | 5000 | 100 | **LV948342** | **LV948345** |
| MTZ3 63 | 6300 | 100 | **LV948348** | **LV948351** |
| **Type H2 - for MicroLogic Active** | | | | |
| | In (A at 40 °C) | Icu (kA for U = 220/440 V) - Ics = 100 % Icu | | |
| MTZ2 08 | 800 | 100 | **LV948232** | **LV948239** |
| MTZ2 10 | 1000 | 100 | **LV948246** | **LV948253** |
| MTZ2 12 | 1250 | 100 | **LV948260** | **LV948267** |
| MTZ2 16 | 1600 | 100 | **LV948274** | **LV948281** |
| MTZ2 20 | 2000 | 100 | **LV948288** | **LV948295** |
| MTZ2 25 | 2500 | 100 | **LV948301** | **LV948307** |
| MTZ2 32 | 3200 | 100 | **LV948313** | **LV948318** |
| MTZ2 40 | 4000 | 100 | **LV948323** | **LV948328** |
| MTZ3 40 | 4000 | 150 | **LV948337** | **LV948340** |
| MTZ3 50 | 5000 | 150 | **LV948343** | **LV948346** |
| MTZ3 63 | 6300 | 150 | **LV948349** | **LV948352** |
| **Type H3 - for MicroLogic Active** | | | | |
| | In (A at 40 °C) | Icu (kA for U = 220/440 V) - Ics = 100 % Icu | | |
| MTZ2 20 | 2000 | 150 | **LV948289** | **LV948296** |
| MTZ2 25 | 2500 | 150 | **LV948302** | **LV948308** |
| MTZ2 32 | 3200 | 150 | **LV948314** | **LV948319** |
| MTZ2 40 | 4000 | 150 | **LV948324** | **LV948329** |
| **Type L1 - for MicroLogic Active** | | | | |
| | In (A at 40 °C) | Icu (kA for U = 220/440 V) - Ics = 100 % Icu | | |
| MTZ2 08 | 800 | 150 | **LV948233** | **LV948240** |
| MTZ2 10 | 1000 | 150 | **LV948247** | **LV948254** |
| MTZ2 12 | 1250 | 150 | **LV948261** | **LV948268** |
| MTZ2 16 | 1600 | 150 | **LV948275** | **LV948282** |
| MTZ2 20 | 2000 | 150 | **LV948290** | **LV948297** |
| **Option** | | | | |
| Neutral on the right | | | | [1] |

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# MTZ2 08 to MTZ3 63 drawout circuit breakers

## Circuit breakers

Using the wireless function of the MicroLogic requires the installation of a panel server.

### MicroLogic Active A control unit/No Wireless

Ammeter Only

| | | 3P/4P |
|---|---|---|
| MicroLogic Active 2.0 A | Basic protection - LI | **LV948358** |
| MicroLogic Active 5.0 A | Selective protection - LSI | **LV948360** |
| MicroLogic Active 6.0 A | Selective + earth-fault protection - LSIG | **LV948361** |

### MicroLogic Active AP control unit/Wireless Ready

Ammeter Only

| | | 3P/4P |
|---|---|---|
| MicroLogic Active 2.0 AP | Basic protection - LI | **LV948358W** |
| MicroLogic Active 5.0 AP | Selective protection - LSI | **LV948360W** |
| MicroLogic Active 6.0 AP | Selective + earth-fault protection - LSIG | **LV948361W** |

### MicroLogic Active E control unit/No Wireless

Ammeter + Voltage / Energy / Power Meter

| | | 3P/4P |
|---|---|---|
| MicroLogic Active 1.0 E | Only I protection | **LV906401** |
| MicroLogic Active 2.0 E | Basic protection - LI | **LV948498** |
| MicroLogic Active 5.0 E | Selective protection - LSI | **LV948499** |
| MicroLogic Active 6.0 E | Selective + earth-fault protection - LSIG | **LV948500** |

### MicroLogic Active EP control unit/Wireless

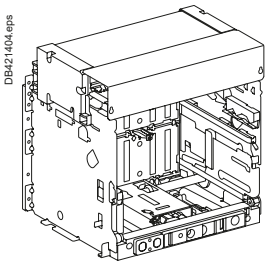
Ammeter + Voltage / Energy / Power Meter

| | | 3P/4P |
|---|---|---|
| MicroLogic Active 1.0 EP | Only I protection | **LV906401W** |
| MicroLogic Active 2.0 EP | Basic protection - LI | **LV948498W** |
| MicroLogic Active 5.0 EP | Selective protection - LSI | **LV948499W** |
| MicroLogic Active 6.0 EP | Selective + earth-fault protection - LSIG | **LV948500W** |

### Grounding kit

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

# MTZ2 08 to MTZ3 63 drawout circuit breakers
## Chassis




Chassis ≤ 4000 A

## Chassis

| | 3P | 4P |
|---|---|---|
| **For type N1/H1** | | |
| 800-1600 A | **LV848392** | **LV848404** |
| **For type H2** | | |
| 800-1600 A | **LV848393** | **LV848405** |
| **For type N1/H1/H2/H2V** | | |
| 2000 A | **LV848393** | **LV848405** |
| 2500 A | **LV848394** | **LV848406** |
| 3200 A | **LV848395** | **LV848407** |
| 4000 A | **LV848396** | **LV848408** |
| **For type H1/H2** | | |
| 4000/6300 A | **LV848397** | **LV848409** |
| **For type H3** | | |
| 2000/2500 A | **LV848394** | **LV848406** |
| 3200 A | **LV848395** | **LV848407** |
| 4000 A | **LV848396** | **LV848408** |
| **For type L1** | | |
| 800/1600 A | **LV848399** | **LV848411** |
| 2000 A | **LV848400** | **LV848412** |

## 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: COM, 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
- PTE
- 1st additionnal 4 OF block
- 2nd additionnal 4 OF block

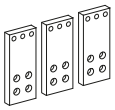
all the necessary chassis terminal blocks are coded by one of the part numbers below:

| | |
|---|---|
| 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** |

Auxiliaries and accessories:
for drawout devices: see page H-25
for fixed or drawout devices: see page H-29.
Source changeover assembly: see page H-29.

# MTZ2 08 to MTZ3 63 drawout circuit breakers
## Connections

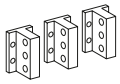
### Chassis front connection

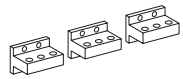



| | | 3P | 4P |
|---|---|---|---|
| 800-1600 A | Top | **LV848415** | **LV848441** |
| | Bottom | **LV848418** | **LV848444** |
| 2000 A | Top | **LV848413** | **LV848417** |
| | Bottom | **LV848414** | **LV848420** |
| 2500/3200 A | Top | **LV848416** | **LV848442** |
| | Bottom | **LV848419** | **LV848445** |

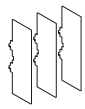
### Chassis rear connection

| | | 3P | 4P |
|---|---|---|---|
| **Vertical connection** | | | |
| 800-2000 A | Top | **LV848133** | **LV848158** |
| 800-1600 A type L1 | Bottom | **LV848138** | **LV848163** |
| 2500/3200 A | Top | **LV848134** | **LV848159** |
| 2000 A types H3/L1 | Bottom | **LV848139** | **LV848164** |
| 4000 A | Top | **LV848135** | **LV848160** |
| | Bottom | **LV848140** | **LV848165** |
| 4000/5000 A (MTZ3) | Top | **LV848136** | **LV848161** |
| | Bottom | **LV848141** | **LV848166** |
| 6300 A (MTZ3) | Top | **LV848137** | **LV848162** |
| | Bottom | **LV848142** | **LV848167** |
| **Horizontal connection** | | | |
| 800-2000 A | Top | **LV848143** | **LV848168** |
| 800-1600 A type L1 | Bottom | **LV848148** | **LV848173** |
| 2500/3200 A | Top | **LV848144** | **LV848169** |
| 2000 A types H3/L1 | Bottom | **LV848149** | **LV848174** |
| 4000 A | Top | **LV848145** | **LV848170** |
| | Bottom | **LV848150** | **LV848175** |
| 4000/5000 A | Top | **LV848146** | **LV848171** |
| | Bottom | **LV848151** | **LV848176** |




### Rear connection accessories




| Interphase barriers [1] | |
|---|---|
| 3P/4P (3 parts) | **LV848600SP** |

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

### Ethernet communication option - for MicroLogic Active

| | | | Chassis + Standard | Circuit breaker ULP) Standard |
|---|---|---|---|---|
| ULP port | | | | |
| EIFE Embedded Ethernet interface for LV breaker | | | **LV851200** | |
| IFM | | Modbus interface | **LV434000** | |
| IFE | | Ethernet interface for LV breaker | **LV434001** | |
| | | Ethernet interface for LV breakers and gateway | **LV434002** | |
| ULP Insulation module | | | **LV908000** | |
| I/O application module | | | **LV434063** | |
| Panel Server | Ethernet/Wi-Fi Gateway | 110-227 V AC/DC 50/60 HZ | **PAS400, PAS600** | |
| | | 24 V DC | **PAS600L** | |
| | Ethernet/Wi-Fi Gateway and Data logger | 110-227 V AC/DC 50/60 HZ | **PAS800** | |
| | | 24 V DC | **PAS800L** | |
| | | PoE (Power over Ethernet) | **PAS800P** | |

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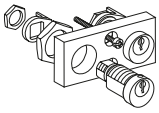
# MTZ2 08 to MTZ3 63 drawout circuit breakers

## Chassis locking and accessories

### Chassis locking

#### "Disconnected" position locking

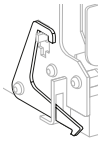
DB404325.eps



| | | |
|---|---|---|
| **By padlocks** | | |
| | VCPO | Standard |
| **By Profalux keylocks** | | |
| Profalux | 1 lock with 1 key + adaptation kit | **LV848568** |
| | 2 locks 1 key + adaptation kit | **LV848569** |
| | 2 locks 2 different keys + adaptation kit | **LV848570** |
| **By Ronis keylocks** | | |
| Ronis | 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 | | **LV833779** |
| Adaptation kit (without keylock): | adaptation kit Profalux / Ronis | **LV848564SP** |
| | adaptation kit Kirk | **LV848565SP** |
| | adaptation kit Castell | **LV848566SP** |

#### Door interlock (1 part)

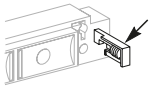
DB424654.eps



| | |
|---|---|
| Right-hand side of chassis | **LV848579** |
| Left-hand side of chassis | **LV848580** |

#### Racking interlock

DB424655.eps



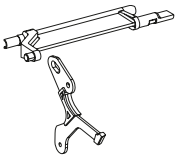
| | |
|---|---|
| 1 part | **LV848582** |

#### Racking interlock between crank and OFF pushbutton

| | |
|---|---|
| 1 part | **LV848585** |

#### Automatic spring discharge before breaker removal

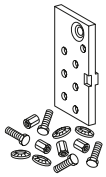
DB424869.eps



| | |
|---|---|
| 1 part | **LV848554** |

#### Breaker mismatch protection

DB404329.eps



| | |
|---|---|
| Breaker mismatch protection VDC | **LV833767SP** |

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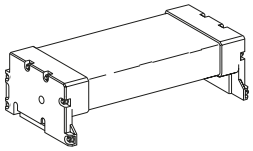
# MTZ2 08 to MTZ3 63 drawout circuit breakers

## Chassis locking and accessories

### Chassis accessories

#### Arc chute cover

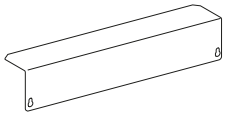
DB404330.eps



| | | |
|---|---|---|
| 3P/4P | Standard |

#### Auxiliary terminal shield (CB)

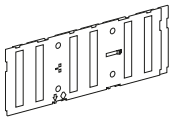
DB404331.eps



| | | |
|---|---|---|
| 800/4000 A | 3P | **LV848595** |
| | 4P | **LV848596** |
| 4000/6300 A | 3P | **LV848597** |
| | 4P | **LV848598** |

#### Safety shutters + locking block

DB404332.eps



| | | |
|---|---|---|
| 800/4000 A | 3P | Standard |
| | 4P | Standard |
| 4000/6300 A | 3P | Standard |
| | 4P | Standard |

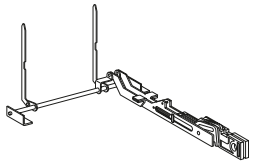
#### Shutter locking block (for remplacement)

DB404333.eps

| | |
|---|---|
| 2 parts for 800/4000 A | **LV848591SP** |

#### Front face shutter position indication and locking

DB404374.eps



| | | |
|---|---|---|
| 800/4000 A | 3P/4P | **LV848592** |
| 4000/6300 A | 3P | **LV848693** |
| | 4P | **LV848694** |

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Life Is On Schneider Electric

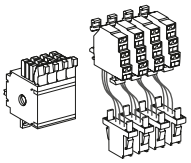
# MTZ2 08 to MTZ3 63 drawout circuit breakers

## Indication contacts and remote operation

### Indication contacts

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

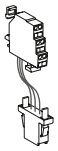
DB404321.eps



| | |
|---|---|
| Block of 4 changeover contacts (6 A - 240 V) | 1 block (standard) |
| 1 additional block of 4 contacts (2 max.) | **LV848468** |

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

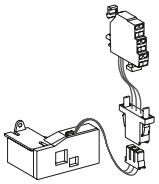
DB404322.eps



| | |
|---|---|
| 1 contact (5 A - 240 V) (8 max.) | **LV848477** |
| or 1 low-level contact (8 max.) | **LV848478** |

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

DB404323.eps



| | |
|---|---|
| Changeover contact (6 A - 240 V) | 1 (standard) |
| 1 additional SDE (6 A - 240 V) | **LV848475** |
| or 1 additional low-level SDE | **LV848476** |

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

DB404324.eps

| | |
|---|---|
| Changeover contacts (8 A - 240 V) | |
| 1 connected position contact (3 max.) | **LV833751** |
| 1 test position contact (3 max.) | **LV833752** |
| 1 disconnected position contact (3 max.) | **LV833753** |
| and/or low-level changeover contacts | |
| 1 connected position contact (3 max.) | **LV833754** |
| 1 test position contact (3 max.) | **LV833755** |
| 1 disconnected position contact (3 max.) | **LV833756** |
| Actuator for additional carriage switches | **LV848560** |

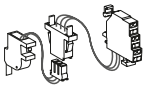
#### Auxiliary terminals for chassis alone

| | |
|---|---|
| 3 wire terminal (30 parts) | **LV847898SP** |
| 6 wire terminal (10 parts) | **LV847899SP** |
| Jumpers (10 parts) | **LV847900SP** |

### Remote operation

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

DB404379.eps



| | |
|---|---|
| | PF |
| 1 changeover contact (5 A - 240 V) | **LV848469** |
| 1 low-level changeover contact | **LV848470** |

#### Remote reset after fault trip

| | |
|---|---|
| Electrical reset | RES |
| 100/130 V AC | **LV848472** |
| 200/240 V AC | **LV848473** |
| Automatic reset | RAR |
| Adaptation | **LV847346** |

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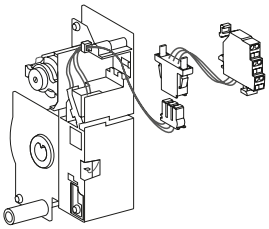
# MTZ2 08 to MTZ3 63 drawout circuit breakers

## Remote operation

### Remote ON/OFF

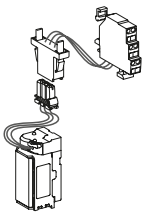
#### Gear motor



DB424658.eps

| | | MCH |
|---|---|---|
| AC 50/60 Hz | 48 V | **LV848522** |
| | 100/130 V | **LV848526** |
| | 200/240 V | **LV848527** |
| | 250/277 V | **LV848528** |
| | 380/415 V | **LV848529** |
| | 440/480 V | **LV848530** |
| DC | 24/30 V | **LV848521** |
| | 48/60 V | **LV848522** |
| | 100/130 V | **LV848523** |
| | 200/250 V | **LV848524** |

#### Instantaneous voltage releases



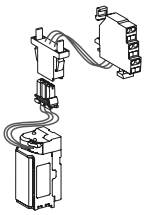
DB424659.eps

| | | Standard | | Reinforced | |
|---|---|---|---|---|---|
| | | Closing release | Opening release | Closing release | Opening release |
| | | XF | MX | XF | MX |
| AC 50/60 Hz | 24/30 V DC, 24 V AC | **LV948481** | **LV948491** | **LV848481** | **LV848491** |
| DC | 48/60 V DC, 48 V AC | **LV948482** | **LV948492** | **LV848482** | **LV848492** |
| | 100/130 V AC/DC | **LV948483** | **LV948493** | **LV848483** | **LV848493** |
| | 200/250 V AC/DC | **LV948484** | **LV948494** | **LV848484** | **LV848494** |
| | 277 V AC | **LV948485** | **LV948495** | **LV848485** | **LV848495** |
| | 380/480 V AC | **LV948486** | **LV948496** | **LV848486** | **LV848496** |

| | | Opening release | Opening release |
|---|---|---|---|
| | | MN | MN |
| AC 50/60 Hz | 24/30 V DC, 24 V AC | **LV948501** | **LV848501** |
| DC | 48/60 V DC, 48 V AC | **LV948502** | **LV848502** |
| | 100/130 V AC/DC | **LV948503** | **LV848503** |
| | 200/250 V AC/DC | **LV948504** | **LV848504** |
| | 380/480 V AC | **LV948506** | **LV848506** |

### Remote tripping

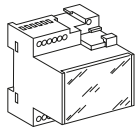
#### Instantaneous voltage release



DB424659.eps

| | | 2nd MX [1] | |
|---|---|---|---|
| | | Standard | Reinforced |
| AC 50/60 Hz | 24/30 V DC, 24 V AC | **LV948511** | **LV848511** |
| DC | 48/60 V DC, 48 V AC | **LV948512** | **LV848512** |
| | 100/130 V AC/DC | **LV948513** | **LV848513** |
| | 200/250 V AC/DC | **LV948514** | **LV848514** |
| | 277 V AC | **LV948515** | **LV848515** |
| | 380/480 V AC | **LV948516** | **LV848516** |

#### MN delay unit



DB404320.eps

| | | R (non-adjustable) | Rr (adjustable) |
|---|---|---|---|
| AC 50/60 Hz | 48/60 V AC/DC | | **LV833680SP** |
| DC | 100/130 V AC/DC | **LV833684SP** | **LV833681SP** |
| | 200/250 V AC/DC | **LV833685SP** | **LV833682SP** |
| | 380/480 V AC/DC | | **LV833683SP** |

**[1]** Not compatible with any version of MN coils.

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

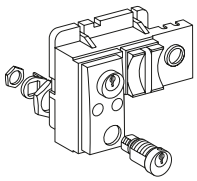
## Circuit breaker locking

### Pushbutton locking device

DB404337.eps

| | | |
|---|---|---|
| By padlocks | | LV848536 |

### OFF position locking


DB404338.eps

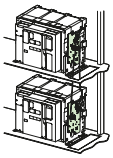
| | | |
|---|---|---|
| **By padlocks** | | |
| | VCPO | LV848539 |
| **By Profalux keylocks** | | |
| Profalux | 1 lock with 1 key + adaptation kit | LV848545 |
| | 2 locks 1 key + adaptation kit | LV848546 |
| | 2 locks 2 different keys + adaptation kit | LV848547 |
| **By Ronis keylocks** | | |
| 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

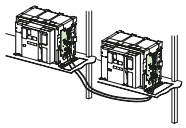
### Interlocking of 2 devices using connecting rods


DB421405.eps

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

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

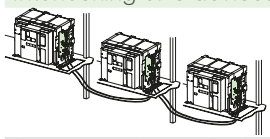
### Interlocking of 2 devices using cables [1]


DB421406.eps

| | |
|---|---|
| Choose 2 adaptation fixtures (1 for each device) + 1 set of cables | |
| 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


DB421407.eps

| | |
|---|---|
| Choose 1 interlocking kit (including 3 adaptation fixtures + cables) | |
| 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 |

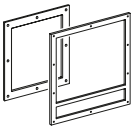
## Other circuit breaker accessories

### Mechanical operation counter

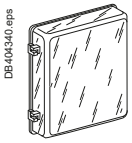
DB125617.eps

| | |
|---|---|
| Operation counter CDM | LV848535 |

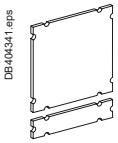
### Escutcheon and accessories


DB421415.eps

Escutcheon


DB404340.eps

Cover


DB404341.eps

Blanking plate

| | Fixed | Drawout |
|---|---|---|
| Escutcheon | LV848601SP | LV848603SP |
| Transparent cover IP54 | | LV848604SP |
| Escutcheon blanking plate | LV848605SP | LV848605SP |

For more information, see the TransferPacT Changeover Catalog, LVPED216028EN.

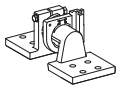
# Accessories for MTZ2 08 to MTZ3 63 fixed and drawout circuit breakers

## Accessories for MicroLogic Active A/E control units

### External sensors

#### External sensor for earth-fault protection (TCE)

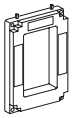
DB421349.ai



| | | |
|---|---|---|
| Sensor rating | 400/2000 A - only for MicroLogic Active | **LV834035SP** |
| | 1000/4000 A - only for MicroLogic Active | **LV834036SP** |
| | 4000/6300 A (MTZ3) - only for MicroLogic Active | **LV848182SP** |
| Single sensor kit | 2000/6300 A - only for MicroLogic Active | **LV848904SP** |
| 3 layer bus | 2000 A - only for MicroLogic Active | **LV848905SP** |

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

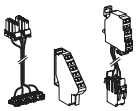
DB424661.eps



| | | |
|---|---|---|
| External sensor (SGR) | | **LV833579SP** |
| MDGF summing module | | **LV848891SP** |

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

DB424868.eps



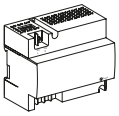
| | | |
|---|---|---|
| Voltage measurement input | Fixed only for MicroLogic Active | **LV947506** |
| | Drawout only for MicroLogic Active | **LV948533** |

### Zone Selective Interlocking option for MicroLogic Active

| | | |
|---|---|---|
| ZSI | | Standard |

### External power supply module (AD)

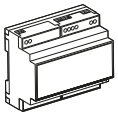
DB432608.eps



| | | |
|---|---|---|
| 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 (RIM)

DB445620.ai



| | | |
|---|---|---|
| 24 V DC | | **LV848892SP** |

## Test and commisionning equipment

### Insulation Box (MicroLogic Active for NT NW retrofit)

DB445621.ai

| | | |
|---|---|---|
| | | **LV910200SP** |

### Mobile Powerpack for MicroLogic Active (by APC)

DB421410.eps

| | | |
|---|---|---|
| | | **LV850055SP** |

## Special settings

Sensor rating to be specified when ordering

| Rating | MTZ2 02 | MTZ2 08 | MTZ2 10 | MTZ2 12 | MTZ2 16 | MTZ2 20 |
|---|---|---|---|---|---|---|
| 250 [1] | ■ | | | | | |
| 400 | | ■ | ■ | ■ | ■ | ■ |
| 630 | | ■ | ■ | ■ | ■ | ■ |
| 800 | | | ■ | ■ | ■ | ■ |
| 1000 | | | | ■ | ■ | ■ |
| 1250 | | | | | ■ | ■ |
| 1600 | | | | | | ■ |
| 2000 | | | | | | |
| 2500 | | | | | | |
| 3200 | | | | | | |

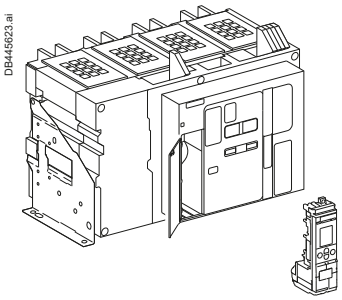
| Rating | MTZ2 25 | MTZ2 32 | MTZ2 40 | MTZ3 40 | MTZ3 50 | MTZ3 63 |
|---|---|---|---|---|---|---|
| 1250 | ■ | ■ | ■ | | | |
| 1600 | ■ | ■ | ■ | | | |
| 2000 | ■ | ■ | ■ | ■ | ■ | ■ |
| 2500 | | ■ | ■ | ■ | ■ | ■ |
| 3200 | | | ■ | ■ | ■ | ■ |
| 4000 | | | | | ■ | ■ |
| 5000 | | | | | | ■ |
| 6300 | | | | | | |

[1] Only for MicroLogic Active

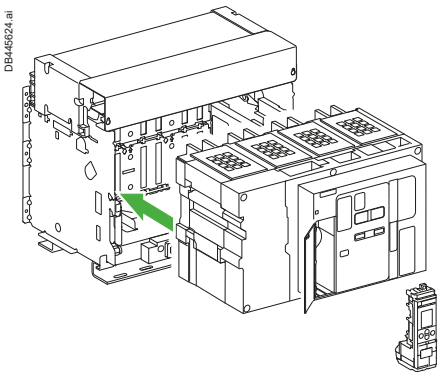
# MTZ2 08 to MTZ3 63 circuit breakers with neutral on the right

## Circuit breakers

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




Basic circuit breaker.




Basic circuit breaker + chassis.

### Fixed circuit breakers with neutral on the right

#### Type H1 - for MicroLogic Active

| | In (A at 40 °C) | Icu (kA for U = 220/440 V) - Ics = 100 % Icu | 4P |
|---|---|---|---|
| MTZ2 08 | 800 | 66 | **LV948183** |
| MTZ2 10 | 1000 | 66 | **LV948184** |
| MTZ2 12 | 1250 | 66 | **LV948185** |
| MTZ2 16 | 1600 | 66 | **LV948186** |
| MTZ2 20 | 2000 | 66 | **LV948060** |
| MTZ2 25 | 2500 | 66 | **LV948073** |
| MTZ2 32 | 3200 | 66 | **LV948187** |
| MTZ2 40 | 4000 | 66 | **LV948193** |
| MTZ3 40 | 4000 | 100 | **LV948194** |
| MTZ3 50 | 5000 | 100 | **LV948195** |
| MTZ3 63 | 6300 | 100 | **LV948196** |

#### Type H2 - for MicroLogic Active

| | In (A at 40 °C) | Icu (kA for U = 220/440 V) - Ics = 100 % Icu | 4P |
|---|---|---|---|
| MTZ2 08 | 800 | 100 | **LV948177** |
| MTZ2 10 | 1000 | 100 | **LV948178** |
| MTZ2 12 | 1250 | 100 | **LV948179** |
| MTZ2 16 | 1600 | 100 | **LV948180** |
| MTZ2 20 | 2000 | 100 | **LV948067** |
| MTZ2 25 | 2500 | 100 | **LV948079** |
| MTZ2 32 | 3200 | 100 | **LV948181** |
| MTZ2 40 | 4000 | 100 | **LV948102** |
| MTZ3 40 | 4000 | 150 | **LV948103** |
| MTZ3 50 | 5000 | 150 | **LV948104** |
| MTZ3 63 | 6300 | 150 | **LV948105** |

### Drawout circuit breakers with neutral on the right

#### Type H1 - for MicroLogic Active

| | In (A at 40 °C) | Icu (kA for U = 220/440 V) - Ics = 100 % Icu | 4P |
|---|---|---|---|
| MTZ2 08 | 800 | 66 | **LV948226** |
| MTZ2 10 | 1000 | 66 | **LV948227** |
| MTZ2 12 | 1250 | 66 | **LV948228** |
| MTZ2 16 | 1600 | 66 | **LV948229** |
| MTZ2 20 | 2000 | 66 | **LV948436** |
| MTZ2 25 | 2500 | 66 | **LV948303** |
| MTZ2 32 | 3200 | 66 | **LV948437** |
| MTZ2 40 | 4000 | 66 | **LV948332** |
| MTZ3 40 | 4000 | 100 | **LV948333** |
| MTZ3 50 | 5000 | 100 | **LV948334** |
| MTZ3 63 | 6300 | 100 | **LV948335** |

#### Type H2 - for MicroLogic Active

| | In (A at 40 °C) | Icu (kA for U = 220/440 V) - Ics = 100 % Icu | 4P |
|---|---|---|---|
| MTZ2 08 | 800 | 100 | **LV948426** |
| MTZ2 10 | 1000 | 100 | **LV948427** |
| MTZ2 12 | 1250 | 100 | **LV948428** |
| MTZ2 16 | 1600 | 100 | **LV948429** |
| MTZ2 20 | 2000 | 100 | **LV948438** |
| MTZ2 25 | 2500 | 100 | **LV948309** |
| MTZ2 32 | 3200 | 100 | **LV948439** |
| MTZ2 40 | 4000 | 100 | **LV948354** |
| MTZ3 40 | 4000 | 150 | **LV948355** |
| MTZ3 50 | 5000 | 150 | **LV948356** |
| MTZ3 63 | 6300 | 150 | **LV948357** |

H

# Order your Circuit Breaker: Spare Parts

## MasterPacT MTZ1

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MicroLogic Active A/E control unit, communication option, accessories ..... I-3
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Clusters - NT chassis retrofit to MTZ1 ..... I-6
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Mechanical interlocking for source changeover ..... I-8
Indication contacts ..... I-9
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## MasterPacT MTZ2/3

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Order your Circuit Breaker ..... H-1

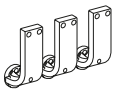
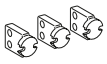
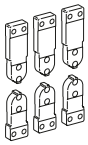
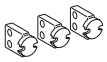
I

### Other chapters on general catalog

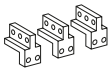
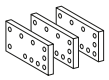
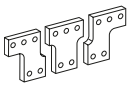
Select a Circuit Breakers ..... A-1
Select a MicroLogic Active Control Unit ..... B-1
Customize your Circuit Breaker with Accessories ..... C-1
Integrate in Smart panels - Architecture and systems ..... D-1
Integrate in switchboard ..... E-1
Integrate in special applications - Source-changeover systems ..... F-1
Services ..... G-1

# MasterPacT MTZ1
## Connection

### Connection

| | | | 3P | 4P |
|---|---|---|---|---|
| **Fixed circuit breakers** | | | | |
| Front connection / Replacement kit (3 or 4 parts) | | | | |
|  DB404388.eps | Top or bottom | 630-1600 A | **LV847069SP** | **LV847070SP** |
| Rear connection (vertical or horizontal mounting) / Replacement kit (3 or 4 parts) | | | | |
|  DB402835.eps Vert. mounting. DB402836.eps Horiz. mounting. | | 630-1600 A | **LV833584SP** | **LV833585SP** |
| **Drawout circuit breakers** | | | | |
| Front connection / Replacement kit (6 or 8 parts) | | | | |
|  DB402869.eps | Top and bottom | 630-1600 A | **LV833588SP** | **LV833589SP** |
| Rear connection (vertical or horizontal mounting) / Replacement kit (3 or 4 parts) | | | | |
|  DB402835.eps Vert. mounting. DB402836.eps Horiz. mounting. | | 630-1600 A | **LV833586SP** | **LV833587SP** |

### Connection accessories

| | | 3P | 4P |
|---|---|---|---|
| **Vertical connection adapters 630-1600 A / Replacement kit (3 or 4 parts)** | | | |
|  DB404389.eps | For fixed and drawout front-connected circuit breakers | **LV833642SP** | **LV833643SP** |
| **Cable lug adapters 630-1600 A / Replacement kit (3 or 4 parts)** | | | |
|  DB404390.eps Dd380845R.ai | For fixed and drawout front-connected circuit breakers | **LV833644SP** | **LV833645SP** |
| | Threaded rod + spacers for securing the cable lug adapters | **04691** | **04691** |
| **Spreaders / Replacement kit 630-1600 A (3 or 4 parts)** | | | |
|  DB404391.eps | For fixed and drawout front and rear-connected circuit breakers | **LV833622SP** | **LV833623SP** |
| **Interphase barriers / Replacement kit (3 or 4 parts)** | | | |
| DB404392.eps | For fixed front and rear-connected circuit breakers [1] | **LV833648SP** | **LV833648SP** |
| | For drawout rear-connected circuit breakers [2] | **LV833768SP** | **LV833768SP** |
| **Arc chute screen (1 part)** | | | |
| DB404393.eps | For fixed front-connected circuit breakers | **LV847335SP** | **LV847336SP** |

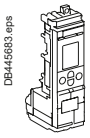
**[1]** Take 2 kits: 1 for the top, 1 for the buttom connections.
**[2]** The same kit covers the top and the bottom connections at the same time.

# MasterPacT MTZ1

## MicroLogic Active A/E control unit, communication option, accessories

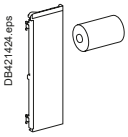
### Replacement parts for MicroLogic Active A/E control units

#### MicroLogic Active



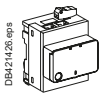

| | |
|---|---|
| Active 2.0 E | **LV947600SP** |
| Active 6.0 E | **LV947603SP** |
| Active 2.0 EP | **LV947600WSP** |
| Active 6.0 EP | **LV947603WSP** |

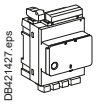
#### MicroLogic Active A/E Battery + Transparent cover




| | | |
|---|---|---|
| Battery (1 part) | | **LV933593SP** |
| Transparent Cover (1 part) | For MicroLogic Active A/E | **LV850053SP** |

### Communication option



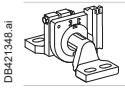



| | | | |
|---|---|---|---|
| EIFE | Embedded Ethernet interface for LV breaker | | **LV851100SP** |
| IFM | Modbus interface | | **LV434000** |
| IFE | Ethernet interface LV breaker | | **LV434001** |
| | Ethernet interface for LV breakers and gateway | | **LV434002** |
| I/O application module | | | **LV434063** |
| Microswitches for MTZ1 | | | **LV847906** |
| Panel Server | Ethernet/Wi-Fi Gateway | 110-227 V AC/DC 50/60 Hz | **PAS400, PAS600** |
| | | 24 V DC | **PAS600L** |
| | Ethernet/Wi-Fi Gateway and Data logger | 110-227 V AC/DC 50/60 Hz | **PAS800** |
| | | 24 V DC | **PAS800L** |
| | | PoE (Power over Ethernet) | **PAS800P** |

### Accessories

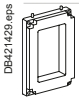
#### External sensors

External sensor for earth-fault protection (TCE) / 1 part



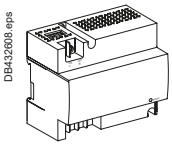

| | |
|---|---|
| Sensor rating 400/1600 A | **LV833576SP** |

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



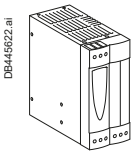

| | |
|---|---|
| External sensor (SGR) | **LV833579SP** |
| MDGF summing module | **LV848891SP** |

#### 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** |

#### ABL8 RPS power supply




| | | |
|---|---|---|
| 3 A | 24 V DC | **ABL8RPS24030** |
| 5 A | 24 V DC | **ABL8RPS24050** |

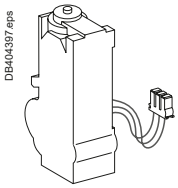
#### Mobile Powerpack for MicroLogic Active A/E (by APC) / 1 part

| | |
|---|---|
| Mobile Powerpack for MicroLogic Active A/E (by APC) / 1 part | **LV850055SP** |

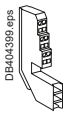
# MasterPacT MTZ1
## Remote operation

### Remote operation

#### Gear motor



Fixed.

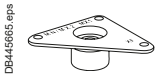



Drawout.

MCH (1 part)

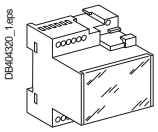
| | | |
|---|---|---|
| AC 50/60 Hz | 48 V | **LV833186SP** |
| | 100/130 V | **LV833176SP** |
| | 200/240 V | **LV833177SP** |
| | 277/415 V | **LV833179SP** |
| | 440/480 V | **LV833179SP** |
| | + resistor | **LV833193SP** |
| DC | 24/30 V | **LV833185SP** |
| | 48/60 V | **LV833186SP** |
| | 100/130 V | **LV833187SP** |
| | 200/250 V | **LV833188SP** |
| 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



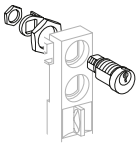

MN delay unit (1 part)

| | | R (non-adjustable) | Rr (adjustable) |
|---|---|---|---|
| AC 50/60 Hz | 48/60 V AC/DC | | **LV833680SP** |
| DC | 100/130 V AC/DC | **LV833684SP** | **LV833681SP** |
| | 200/250 V AC/DC | **LV833685SP** | **LV833682SP** |
| | 380/480 V AC/DC | | **LV833683SP** |

# MasterPacT MTZ1
# Chassis locking and accessories

## Chassis locking

### "Disconnected" position locking / 1 part




#### By padlocks

| | VCPO | Standard |
|---|---|---|

#### By Profalux keylocks

| | | |
|---|---|---|
| Profalux | 1 lock with 1 key + adaptation kit | **LV864909SP** |
| | 2 locks 1 key + adaptation kit | **LV864910SP** |
| | 2 locks 2 different keys + adaptation kit | **LV864911SP** |
| 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

| | | |
|---|---|---|
| Ronis | 1 lock with 1 key + adaptation kit | **LV864912SP** |
| | 2 locks 1 key + adaptation kit | **LV864913SP** |
| | 2 locks 2 different keys + adaptation kit | **LV864914SP** |
| 1 keylock Ronis (without adaptation kit): | identical key not identified combination | **LV833189SP** |
| | identical key identified EL24135 combination | **LV833190SP** |
| | identical key identified EL24153 combination | **LV833191SP** |
| | identical key identified EL24315 combination | **LV833192SP** |
| Adaptation kit (without keylock): | adaptation kit Profalux/Ronis | **LV833769SP** |
| | adaptation kit Castell | **LV833771SP** |
| | adaptation kit Kirk | **LV833772SP** |

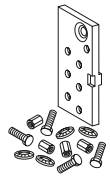
### Door interlock / 1 part

| | |
|---|---|
| Right and left-hand side of chassis (VPECD or VPECG) | **LV833172SP** |

### Racking interlock / 1 part

| | |
|---|---|
| Racking interlock (VPOC) | **LV833788SP** |

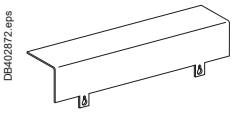
### Breaker mismatch protection / 1 part




| | |
|---|---|
| Breaker mismatch protection (VDC) | **LV833767SP** |

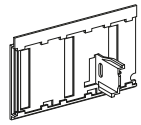
## Chassis accessories

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




| | | |
|---|---|---|
| Terminal shield | 3P | **LV833763SP** |
| | 4P | **LV833764SP** |

### Safety shutters + locking / 1 part



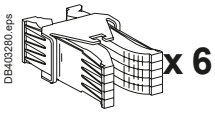

| | | |
|---|---|---|
| Safety shutters (VO) | 3P | **LV833765SP** |
| | 4P | **LV833766SP** |

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

# MasterPacT MTZ1

## Clusters - NT chassis retrofit to MTZ1

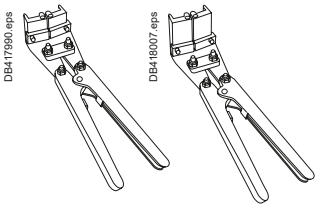
### Clusters




| | |
|---|---|
| Kit of 6 disconnecting contact clusters for chassis (see table below) | **LV864906SP** |

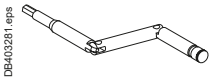
Table : number of clusters required for the different chassis models

| Chassis rating (A) | MasterPacT MTZ1 | |
|---|---|---|
| | 3P | 4P |
| 630 | 12 | 18 |
| 800 | 12 | 18 |
| 1000 | 12 | 18 |
| 1250 | 12 | 18 |
| 1600 | 18 | 24 |



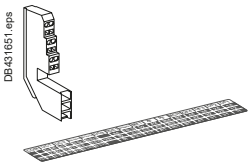

| | |
|---|---|
| Set of 2 clusters fitters for 2 and 3 clusters | **47554** |

### Racking handle / 1 part




| | |
|---|---|
| Racking handle | **LV847098SP** |

### NT chassis retrofit to MTZ1

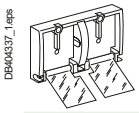



| | |
|---|---|
| Kit for retrofitting an NT chassis for MTZ1 with MicroLogic Active moving part | **LV950066SP** |

# MasterPacT MTZ1
# Circuit breaker locking and accessories

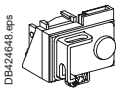
## Circuit breaker locking

### Pushbutton locking device / 1 part



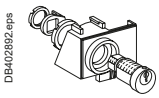

| | |
|---|---|
| By padlocks | LV833897SP |

### OFF position locking / 1 part




#### By padlocks + BPFE support

| | |
|---|---|
| | LV847514SP |




#### By Profalux keylocks + support

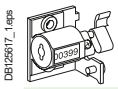
| | | |
|---|---|---|
| Profalux | 1 lock with 1 key + adaptation kit | LV864918SP |
| | 2 locks 1 key + adaptation kit | LV864919SP |
| 1 keylock Profalux (without adaptation kit): | identical key not identified combination | LV833173SP |
| | identical key identified 215470 combination | LV833174SP |
| | 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 | LV833189SP |
| | identical key identified EL24135 combination | LV833190SP |
| | identical key identified EL24153 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 |

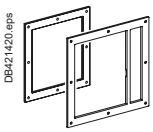
## Other circuit breaker accessories

### Mechanical operation counter / 1 part

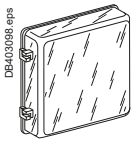



| | |
|---|---|
| Operation counter CDM | LV833895SP |

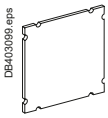
### Escutcheon and accessories / 1 part




Escutcheon



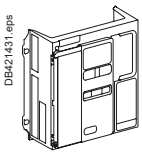

Cover




Blanking plate

| | Fixed | Drawout |
|---|---|---|
| Escutcheon | LV833718SP | LV833857SP |
| Transparent cover (IP54) | | LV833859SP |
| Escutcheon blanking plate | | LV833858SP |

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

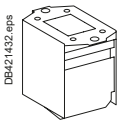



| | |
|---|---|
| Front cover | LV847094SP |

### Spring charging handle / 1 part

| | |
|---|---|
| Spring charging handle | LV847092SP |

### Arc chute for MasterPacT MTZ1 / 1 part

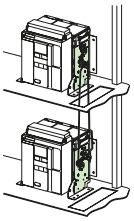



| | | 3P | | 4P |
|---|---|---|---|---|
| Type H1/H2/HA | 3 x | LV846737SP | 4 x | LV846737SP |
| Type L1 | 3 x | LV847095SP | 4 x | LV847095SP |

# MasterPacT MTZ1
## Mechanical interlocking for source changeover

### Mechanical interlocking for source changeover

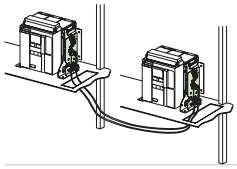
#### Interlocking using connecting rods


DB421418.eps

| Choose 1 set of 2 adaptation fixtures + 1 set of rods | |
|---|---|
| 1 set of 2 adaptation fixtures for MasterPacT MTZ1 fixed devices | **LV833203SP** |
| 1 set of 2 adaptation fixtures for MasterPacT MTZ1 drawout devices | **LV833204SP** |
| 1 set of 2 interlocking rods | **LV833210SP** |

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

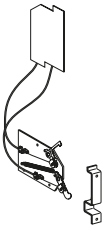
#### Interlocking using cables [1]


DB421419.eps

| Choose 2 adaptation fixtures (1 for each device) + 1 set of cables | |
|---|---|
| 1 adaptation fixture for MasterPacT MTZ1 fixed devices | **LV833200SP** |
| 1 adaptation fixture for MasterPacT MTZ1 drawout devices | **LV833201SP** |
| 1 set of 2 cables | **LV833209SP** |

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

### Cable-type door interlock


DB402867.eps

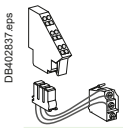
| | |
|---|---|
| 1 complete assembly for MasterPacT MTZ1 fixed devices | **LV833920SP** |
| 1 complete assembly for MasterPacT MTZ1 drawout devices | **LV833921SP** |

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

# MasterPacT MTZ1
## Indication contacts

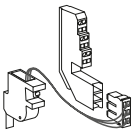
### Indication contacts

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


DB402837.eps

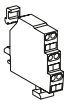
| | | |
|---|---|---|
| Changeover contacts (6 A - 240 V) | | LV847076SP |
| 1 low-level OF to replace 1 standard OF (4 max.) | | LV847077SP |
| Wiring | For fixed circuit breaker | LV847074SP |
| | For drawout circuit breaker (if necessary) | LV833098SP |

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


DB402876.eps

| | | PF |
|---|---|---|
| 1 changeover contact (6 A - 240 V) | | LV847080SP |
| 1 low-level changeover contact | | LV847081SP |
| Wiring | For fixed circuit breaker | LV847074SP |
| | For drawout circuit breaker (if necessary) | LV833098SP |

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


DB402916.eps

| Changeover contacts (6 A - 240 V) | |
|---|---|
| 1 connected position contact (3 max.) | LV833170SP |
| 1 test position contact (1 max.) | LV833170SP |
| 1 disconnected position contact (2 max.) | LV833170SP |

| And/or low-level changeover contacts | |
|---|---|
| 1 connected position contact (3 max.) | LV833171SP |
| 1 test position contact (1 max.) | LV833171SP |
| 1 disconnected position contact (2 max.) | LV833171SP |

#### Auxiliary terminals for chassis alone

DB404399.eps

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

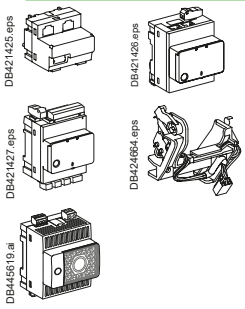
#### Auxiliary terminals for fixed circuit breaker

DB423232.eps

| | |
|---|---|
| 3 wire terminal block (1 part) | LV847074SP |
| 6 wire terminal block (1 part) | LV847075SP |

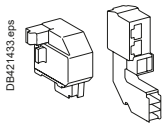
# MasterPacT MTZ1
## Communication, monitoring and control

### Communication option




| | | | |
|---|---|---|---|
| EIFE | Embedded Ethernet module full spare part kit for MTZ1-drawout | | **LV851100SP** |
| | Embedded ethernet Spare Part module for MTZ1/2/3-drawout | | **LV851001SP** |
| IFM | Modbus interface | | **LV434000** |
| IFE | Ethernet interface LV breaker | | **LV434001** |
| | Ethernet interface for LV breakers and gateway | | **LV434002** |
| Microswitches for MTZ1 | | | **LV847906** |
| I/O application module | | | **LV434063** |
| EIFE Acessories spare part kit for MTZ1-drawout | | | **LV851120SP** |
| Panel Server | Ethernet/Wi-Fi Gateway | 110-227 V AC/DC 50/60 Hz | **PAS400, PAS600** |
| | | 24 V DC | **PAS600L** |
| | Ethernet/Wi-Fi Gateway and Data logger | 110-227 V AC/DC 50/60 Hz | **PAS800** |
| | | 24 V DC | **PAS800L** |
| | | PoE (Power over Ethernet) | **PAS800P** |

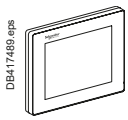
### ULP port modules




| | |
|---|---|
| ULP port - for MasterPacT MTZ1 - fixed | **LV850063SP** |
| ULP port - for MasterPacT MTZ1 - drawout | **LV850064SP** |

### Monitoring and control

#### Ethernet display module

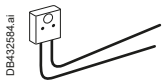



| | |
|---|---|
| Switchboard front display module FDM121 | **TRV00121** |
| Switchboard front display module FDM128 | **LV434128** |

#### ULP wiring accessories [1]

| | |
|---|---|
| Breaker ULP cord L = 0.35 m | **LV434195** |
| Breaker ULP cord L = 1.3 m | **LV434196** |
| Breaker ULP cord L = 3 m | **LV434197** |
| Breaker ULP cord L = 5 m | **LV434198** |

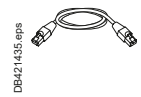
| | |
|---|---|
| Connector Modbus adaptor | **LV434211** |




| | |
|---|---|
| 10 Modbus line terminators | **VW3A8306DRC** [2] |

| | |
|---|---|
| 5 RJ45 connectors female/female | **TRV00870** |

| | |
|---|---|
| 10 ULP line terminators | **TRV00880** |

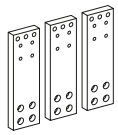
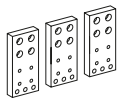
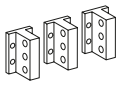
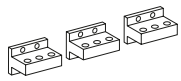



| | |
|---|---|
| 10 RJ45/RJ45 male cord L = 0.3 m | **TRV00803** |
| 10 RJ45/RJ45 male cord L = 0.6 m | **TRV00806** |
| 5 RJ45/RJ45 male cord L = 1 m | **TRV00810** |
| 5 RJ45/RJ45 male cord L = 2 m | **TRV00820** |
| 5 RJ45/RJ45 male cord L = 3 m | **TRV00830** |
| 1 RJ45/RJ45 male cord L = 5 m | **TRV00850** |

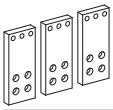
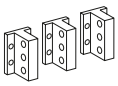
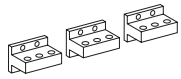
[1] For measurement display with MicroLogic Active A/E.
[2] See www.schneider-electric.com.

## Connection

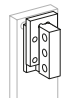
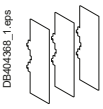
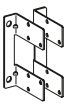
### Fixed circuit breaker

| | | | 3P | | 4P |
|---|---|---|---|---|---|
| **Front connection / Replacement kit (3 or 4 parts)** | | | | | |
|  DB404373.eps | 800-1600 A | Top | LV847990SP | | LV847991SP |
| | 2000/3200 A | Top | LV847992SP | | LV847993SP |
|  DB404408.eps | 800-1600 A | Bottom | LV847932SP | | LV847933SP |
| | 2000/3200 A | Bottom | LV847942SP | | LV847943SP |
| **Rear connection (vertical or horizontal mounting) / Replacement kit (3 or 4 parts)** | | | | | |
|  DB404386_1.eps | 800-2000 A | Vertical | LV847964SP | | LV847965SP |
| | | Horizontal | LV847964SP | | LV847965SP |
| | 2500/3200 A | Vertical | LV847966SP | | LV847967SP |
| | | Horizontal | LV847966SP | | LV847967SP |
| Vertical mounting | 4000 A | Vertical | LV847968SP | | LV847969SP |
| | | Horizontal | LV847970SP | | LV847971SP |
|  DB404367_1.eps | 4000b/5000 A | Vertical 2x | LV847966SP | 2x | LV847967SP |
| | | Horizontal 2x | LV847966SP | 2x | LV847967SP |
| | 6300 A | Vertical 2x | LV847968SP | 2x | LV847969SP |
| Horizontal mounting | | | | | |

### Drawout circuit breakers

| | | | | | |
|---|---|---|---|---|---|
| **Front connection / Replacement kit (3 or 4 parts)** | | | | | |
|  DB424427.ai | 800-1600 A | Top or bottom | LV847960SP | | LV847961SP |
| | 2000/3200 A | Top or bottom | LV847962SP | | LV847963SP |
| **Rear connection (vertical or horizontal mounting) / Replacement kit (3 or 4 parts)** | | | | | |
|  DB404386_1.eps | 800-2000 A types N1/H1/H2 | Vertical | LV847964SP | | LV847965SP |
| | 800-1600 A types H3/L1 | Horizontal | LV847964SP | | LV847965SP |
| | 2500/3200 A types H1/H2 | Vertical | LV847966SP | | LV847967SP |
| | 2000/3200 A types H3/L1 | Horizontal | LV847966SP | | LV847967SP |
| Vertical mounting | 4000 A | Vertical | LV847968SP | | LV847969SP |
| | | Horizontal | LV847970SP | | LV847971SP |
|  DB404367_1.eps | 4000b/5000 A | Vertical 2x | LV847966SP | 2x | LV847967SP |
| | | Horizontal 2x | LV847966SP | 2x | LV847967SP |
| | 6300 A | Vertical 2x | LV847968SP | 2x | LV847969SP |
| Horizontal mounting | | | | | |

## Connection accessories

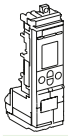
| | | 3P | | 4P |
|---|---|---|---|---|
| **Disconnectable front-connection adapter for fixed circuit breaker (3 or 4 parts)** | | | | |
|  DB418156.eps | 1600 A | LV848421SP | | LV848424SP |
| | 2000/3200 A | LV848422SP | | LV848425SP |
| **Interphase barriers / Replacement kit (3 parts)** | | | | |
|  DB404368_1.eps | For fixed rear-connected circuit breaker | LV848599SP | | LV848599SP |
| | For drawout rear-connected circuit breaker | LV848600SP | | LV848600SP |
| **Additional support brackets for mounting on a backplate** | | | | |
|  DB404369_1.eps | For fixed rear-connected circuit breaker (2 parts) | | | LV847829SP |
| **Grounding kit KTM** | | | | |
| DB424667.eps | Grounding kit for MasterPacT MTZ2/3 fixed | | | |
| | Side plate kit | | | LV848556SP |
| | Device earthing kit | | | LV848557SP |
| | Grounding kit for MasterPacT MTZ2/3 drawout | | | LV848557SP |

# MasterPacT MTZ2/3

## MicroLogic Active A/E control unit, communication option, accessories

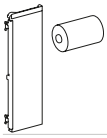
### Replacement parts for MicroLogic Active A/E control units

#### MicroLogic Active


DB445683.eps

| | |
|---|---|
| Active 2.0 E | **LV947600SP** |
| Active 6.0 E | **LV947603SP** |
| Active 2.0 EP | **LV947600WSP** |
| Active 6.0 EP | **LV947603WSP** |

#### MicroLogic Active A/E Battery + Transparent cover


DB421424.eps

| | |
|---|---|
| Battery (1 part) | **LV933593SP** |
| Transparent Cover (1 part) for MicroLogic Active A/E | **LV850053SP** |

### Communication option

DB421425.eps

DB421426.eps

DB421427.eps

DB421428.eps

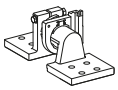
DB445619.ai

| | | | |
|---|---|---|---|
| EIFE | Embedded Ethernet interface for LV breaker | | **LV851200SP** |
| 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 MTZ2/3 | | | **LV847905SP** |
| Panel Server | Ethernet/Wi-Fi Gateway | 110-227 V AC/DC 50/60 Hz | **PAS400, PAS600** |
| | | 24 V DC | **PAS600L** |
| | Ethernet/Wi-Fi Gateway and Data logger | 110-227 V AC/DC 50/60 Hz | **PAS800** |
| | | 24 V DC | **PAS800L** |
| | | PoE (Power over Ethernet) | **PAS800P** |

### Accessories

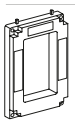
#### External sensors

External sensor for earth-fault protection (TCE) / 1 part


DB421349.ai

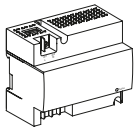
| | | |
|---|---|---|
| Sensor rating | 400/2000 A | **LV834035SP** |
| | 1000/4000 A | **LV834036SP** |
| | 4000/6300 A (MTZ3) | **LV848182SP** |
| Single sensor kit | 2000/6300 A | **LV848904SP** |
| 3 layer bus | 2000 A | **LV848905SP** |

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


DB424661.eps

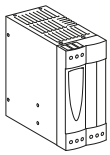
| | |
|---|---|
| External sensor (SGR) | **LV833579SP** |
| MDGF summing module | **LV848891SP** |

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


DB432608.eps

| | |
|---|---|
| 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** |

#### ABL8 RPS power supply


DB445622.ai

| | | |
|---|---|---|
| 3 A | 24 V DC | **ABL8RPS24030** |
| 5 A | 24 V DC | **ABL8RPS24050** |

#### Mobile Powerpack for MicroLogic Active A/E (by APC) / 1 part

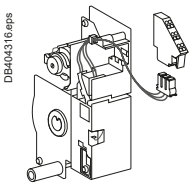
DB421410.eps

| | |
|---|---|
| Mobile Powerpack for MicroLogic Active A/E (by APC) / 1 part | **LV850055SP** |

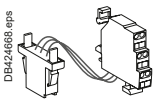
# MasterPacT MTZ2/3
## Remote operation

### Remote operation

#### Gear motor



Fixed.

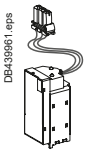



Drawout.

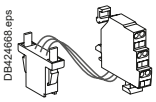
MCH (1 part)

| | | |
|---|---|---|
| AC 50/60 Hz | 48 V | **LV847889SP** |
| | 100/130 V | **LV847893SP** |
| | 200/240 V | **LV847894SP** |
| | 250/277 V | **LV847895SP** |
| | 380/415 V | **LV847896SP** |
| | 440/480 V | **LV847897SP** |
| DC | 24/30 V | **LV847888SP** |
| | 48/60 V | **LV847889SP** |
| | 100/130 V | **LV847890SP** |
| | 200/250 V | **LV847891SP** |
| Terminal block (1 part) | For fixed circuit breaker | **LV847074SP** |
| | For drawout circuit breaker (if necessary) | **LV847849SP** |

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



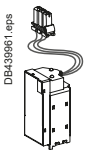
Fixed.



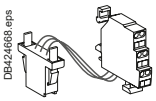

Drawout.

| | | Standard | Reinforced |
|---|---|---|---|
| AC 50/60 Hz<br>DC | 24/30 V DC, 24 V AC | **33659** | **LV833659SP** |
| | 48/60 V DC, 48 V AC | **33660** | **LV833660SP** |
| | 100/130 V AC/DC | **33661** | **LV833661SP** |
| | 200/250 V AC/DC | **33662** | **LV833662SP** |
| | 277 V AC | **33663** | **LV833663SP** |
| | 380/480 V AC | **33664** | **LV833664SP** |
| Terminal block (1 part) | For fixed circuit breaker | **LV847074SP** | **LV847074SP** |
| | For drawout circuit breaker (if necessary) | **LV847849SP** | **LV847849SP** |

#### Undervoltage release MN



Fixed.



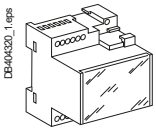

Drawout.

| | | Standard | Reinforced |
|---|---|---|---|
| AC 50/60 Hz<br>DC | 24/30 V DC, 24 V AC | **33668** | **LV833668SP** |
| | 48/60 V DC, 48 V AC | **33669** | **LV833669SP** |
| | 100/130 V AC/DC | **33670** | **LV833670SP** |
| | 200/250 V AC/DC | **33671** | **LV833671SP** |
| | 380/480 V AC | **33673** | **LV833673SP** |
| Terminal block (1 part) | For fixed circuit breaker | **LV847074SP** | **LV847074SP** |
| | For drawout circuit breaker (if necessary) | **LV847849SP** | **LV847849SP** |

#### Voltage releases securing fixture

| | Standard | Reinforced |
|---|---|---|
| Voltage releases securing fixture for MX/XF/MN | **47093SP** | **LV847093SP** |

#### MN delay unit



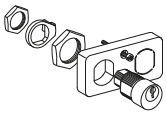

MN delay unit (1 part)

| | | R (non-adjustable) | Rr (adjustable) |
|---|---|---|---|
| AC 50/60 Hz | 48/60 V AC/DC | | **LV833680SP** |
| DC | 100/130 V AC/DC | **LV833684SP** | **LV833681SP** |
| | 200/250 V AC/DC | **LV833685SP** | **LV833682SP** |
| | 380/480 V AC/DC | | **LV833683SP** |

# MasterPacT MTZ2/3
## Chassis locking and accessories

### Chassis locking

#### "Disconnected" position locking / 1 part


DB431801.ai

By padlocks

| | VCPO | Standard |
|---|---|---|

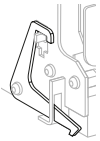
By Profalux keylocks

| | | |
|---|---|---|
| Profalux | 1 lock with 1 key + adaptation kit | **LV864934SP** |
| | 2 locks 1 key + adaptation kit | **LV864935SP** |
| | 2 locks 2 different keys + adaptation kit | **LV864936SP** |
| 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

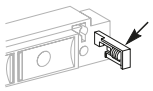
| | | |
|---|---|---|
| Ronis | 1 lock with 1 key + adaptation kit | **LV864937SP** |
| | 2 locks 1 key + adaptation kit | **LV864938SP** |
| | 2 locks 2 different keys + adaptation kit | **LV864939SP** |
| 1 keylock Ronis (without adaptation kit): | identical key not identified combination | **LV833189SP** |
| | identical key identified EL24135 combination | **LV833190SP** |
| | identical key identified EL24153 combination | **LV833191SP** |
| | identical key identified EL24315 combination | **LV833192SP** |
| Adaptation kit (without keylock): | adaptation kit Profalux / Ronis | **LV848564SP** |
| | adaptation kit Kirk | **LV848565SP** |
| | adaptation kit Castell | **LV848566SP** |

#### Door interlock / 1 part


DB424654.eps

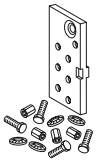
| | |
|---|---|
| Right and left-hand side of chassis (VPECD or VPECG) | **LV847914SP** |

#### Racking interlock


DB424655.eps

| | |
|---|---|
| 5 parts | **LV864940SP** |

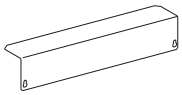
#### Breaker mismatch protection / 1 part


DB404329_2.eps

| | |
|---|---|
| Breaker mismatch protection (VDC) | **LV833767SP** |

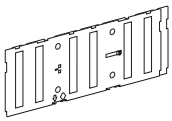
### Chassis accessories

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


DB404331_1.eps

| | | |
|---|---|---|
| MTZ2 800/4000 A | 3P | **LV864942SP** |
| | 4P | **LV848596SP** |
| MTZ3 4000/6300 A | 3P | **LV848597SP** |
| | 4P | **LV848598SP** |

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


DB404332_1.eps

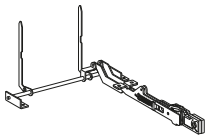
| | | |
|---|---|---|
| MTZ2 800/4000 A | 3P | **LV848721SP** |
| | 4P | **LV848723SP** |
| MTZ3 4000/6300 A | 3P | **LV848722SP** |
| | 4P | **LV848724SP** |

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

DB404333_1.eps

| | |
|---|---|
| 2 parts for 800/4000 A | **LV848591SP** |

#### Front face shutter position indication and locking

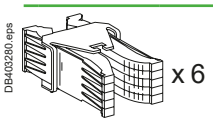

DB425708.ai

| | | |
|---|---|---|
| MTZ2 800/4000 A | 3P | **LV848592SP** |
| MTZ3 4000/6300 A | 3P | **LV848693SP** |
| | 4P | **LV848694SP** |

# MasterPacT MTZ2/3

## Clusters - NW chassis retrofit to MTZ2/MTZ3

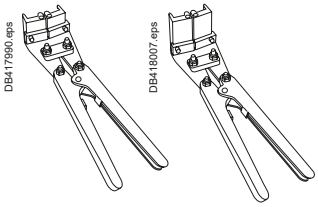
### Clusters




| | |
|---|---|
| Kit of 6 disconnecting contact clusters for chassis (see table below) | **LV864906SP** |

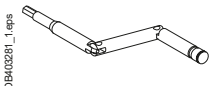
Table : number of clusters required for the different chassis models

| | MasterPacT MTZ2-3 3P | | | | | | MasterPacT MTZ2-3 4P | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | N1, NA | H1, HA | H10, HA10 | H2, HF | H3 | L1 | N1, NA | H1, HA | H10, HA10 | H2, HF | H3 | L1 |
| MTZ2 08 to 16 | 12 | 12 | 12 | 24 | | 24 | 16 | 16 | 16 | 32 | | 32 |
| MTZ2 20 | 24 | 24 | 24 | 24 | 24 | 42 | 32 | 32 | 32 | 32 | 32 | 56 |
| MTZ2 25 | | 24 | 24 | 24 | 24 | | | 32 | 32 | 32 | 32 | |
| MTZ2 32 | | 36 | 36 | 36 | 36 | | | 48 | 48 | 48 | 48 | |
| MTZ2 40 | | 42 | 42 | 42 | 42 | | | 56 | 56 | 56 | 56 | |
| MTZ3 40 to 50 | | 72 | | 72 | | | | 96 | | 96 | | |
| MTZ3 63 | | 72 | | 72 | | | | 96 | | 96 | | |



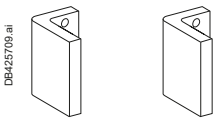

| | |
|---|---|
| Set of 2 clusters fitters for 2 and 3 clusters | **47554** |

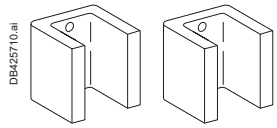
### Racking handle

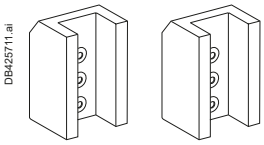



| | |
|---|---|
| Racking handle | **LV847944SP** |

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

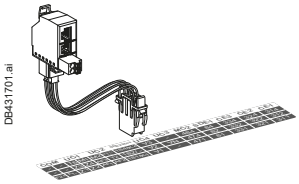



| Device type | Quantity to be ordered 3P | Quantity to be ordered 4P | Part number |
|---|---|---|---|
| MTZ2 08-16 N1/NA/H1/HA | 3 | 4 | **LV847908SP** |
| MTZ2 20 N1 - MTZ2 20-25 H1/H2/HA | 3 | 4 | **LV847909SP** |
| MTZ2 32-40 H1/H2/HA | 3 | 4 | **LV847912SP** |

### NW chassis retrofit to MTZ2/MTZ3




| | |
|---|---|
| Kit for retrofitting an NW chassis for MTZ2/3 with MicroLogic Active moving part | **LV950065SP** |

# MasterPacT MTZ2/3
## Circuit breaker locking and accessories

### Circuit breaker locking

#### Pushbutton locking device / 1 part

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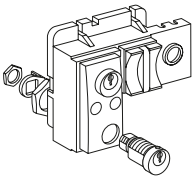
| | |
|---|---|
| By padlocks | **LV848536SP** |

#### OFF position locking / 1 part


DB404411.eps

By padlocks

| | |
|---|---|
| | **LV848539SP** |

By Profalux keylocks

| | | |
|---|---|---|
| Profalux | 1 lock with 1 key + adaptation kit | **LV864928SP** |
| | 2 locks 1 key + adaptation kit | **LV864929SP** |
| | 2 locks 2 different keys + adaptation kit | **LV864930SP** |
| 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

| | | |
|---|---|---|
| Ronis | 1 lock with 1 key + adaptation kit | **LV864931SP** |
| | 2 locks 1 key + adaptation kit | **LV864932SP** |
| | 2 locks 2 different keys + adaptation kit | **LV864933SP** |
| 1 keylock Ronis (without adaptation kit): | identical key not identified combination | **LV833189SP** |
| | identical key identified EL24135 combination | **LV833190SP** |
| | identical key identified EL24153 combination | **LV833191SP** |
| | identical key identified EL24315 combination | **LV833192SP** |
| Adaptation kit (without keylock): | adaptation kit Profalux / Ronis | **LV848541SP** |
| | adaptation kit Kirk | **LV848542SP** |
| | adaptation kit Castell | **LV848543SP** |

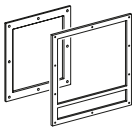
### Other circuit breaker accessories

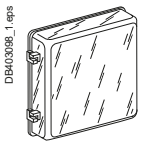
#### Mechanical operation counter / 1 part

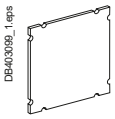
DB125617_2.eps

| | |
|---|---|
| Operation counter CDM | **LV848535SP** |

#### Escutcheon and accessories / 1 part


DB421415.eps

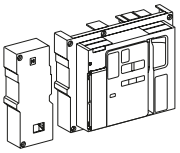

DB403098_1.eps


DB403099_1.eps

Escutcheon Cover Blanking plate

| | Fixed | Drawout |
|---|---|---|
| Escutcheon | **LV848601SP** | **LV848603SP** |
| Transparent cover (IP 54) | | **LV848604SP** |
| Escutcheon blanking plate | **LV848605SP** | **LV848605SP** |

#### Front cover (3P / 4P) / 1 part


DB424669.eps

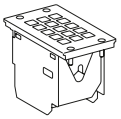
| | |
|---|---|
| Front cover | **LV847939SP** |

#### Spring charging handle / 1 part

DB424670.eps

| | |
|---|---|
| Spring charging handle | **LV847940SP** |

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


DB421438.eps

| | | 3P | | 4P |
|---|---|---|---|---|
| Type N1/NA/HF | 3 x | **LV847935SP** | 4 x | **LV847935SP** |
| Type H1/H2/HA (MTZ2 08 to MTZ2 40) | 3 x | **LV847935SP** | 4 x | **LV847935SP** |
| Type H1/H2/HA (MTZ3 40 to MTZ3 63) | 6 x | **LV847936SP** | 8 x | **LV847936SP** |
| Type H3 | 3 x | **LV847936SP** | 4 x | **LV847936SP** |
| Type H10/HA10 | 3 x | **LV847869SP** | 4 x | **LV847869SP** |
| Type L1 | 3 x | **LV847937SP** | 4 x | **LV847937SP** |

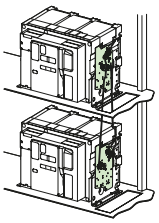
# MasterPacT MTZ2/3

## Mechanical interlocking for source changeover

### Mechanical interlocking for source changeover

#### Interlocking of 2 devices using connecting rods

DB421405.eps



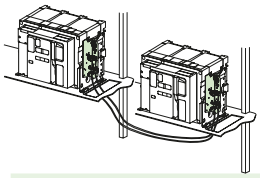
| | |
|---|---|
| Choose 1 set of 2 adaptation fixtures (1 for each device) + 1 set of rods | |
| 1 set of 2 adaptation fixtures for MasterPacT MTZ2 or MTZ3 fixed or drawout device | **LV847930SP** |
| 1 set of 2 interlocking rods | **LV833210SP** |

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]

DB421406.eps

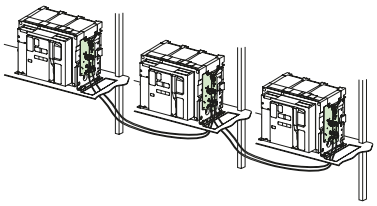


| | |
|---|---|
| Choose 2 adaptation fixtures (1 for each device) + 1 set of cables | |
| 1 adaptation fixture for MasterPacT MTZ2/3 fixed devices | **LV847926SP** |
| 1 adaptation fixture for MasterPacT MTZ2/3 drawout devices | **LV847926SP** |
| 1 set of 2 cables | **LV833209SP** |

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

#### Interlocking of 3 devices using cables

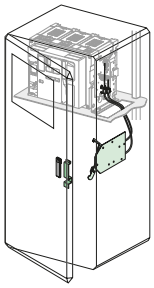
DB421407.eps



| | |
|---|---|
| Choose 3 adaptation (inclusing 3 adaptation fixtures + cables) | |
| 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** |

### Cable-type door interlock

DB431802.ai



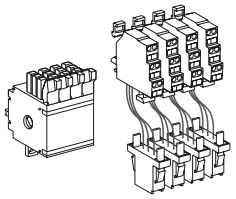
| | |
|---|---|
| 1 complete assembly for MasterPacT MTZ2/3 fixed or drawout device | **LV848614SP** |

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

# MasterPacT MTZ2/3
## Indication contacts

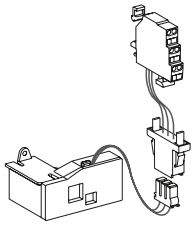
### Indication contacts

#### ON/OFF indication contacts (OF) / 12 parts


DB404321_1.eps

| | | |
|---|---|---|
| 1 additional block of 4 contacts | | LV864922SP |
| Wiring | For fixed circuit breaker | LV847074SP x 4 |
| | For drawout circuit breaker (if necessary) | LV847849SP x4 |

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

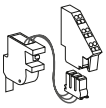

DB404323_1.eps

| | | |
|---|---|---|
| Changeover contact (SDE) | 6 A - 240 V | LV847915SP |
| | Low-level | LV847916SP |
| Wiring | For fixed circuit breaker | LV847074SP |
| | For drawout circuit breaker (if necessary) | LV847849SP |

#### Remote reset after fault trip

| | | |
|---|---|---|
| Electrical reset RES | 110/130 V AC | LV848202SP |
| | 220/240 V AC | LV848203SP |
| Wiring | For fixed circuit breaker | LV847074SP |
| | For drawout circuit breaker (if necessary) | LV847849SP |

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


DB404415.eps

| | | PF |
|---|---|---|
| 1 changeover contact (5 A - 240 V) | | LV847080SP |
| 1 low-level changeover contact | | LV847081SP |
| Wiring | For fixed circuit breaker | LV847074SP |
| | For drawout circuit breaker (if necessary) | LV847849SP |

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

DB404324_1.eps

| | | |
|---|---|---|
| Changeover contacts | 6 A - 240 V | LV833170SP |
| CE, CD, CT | Low-level | LV833171SP |

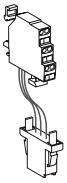
#### Set of additional actuators for carriage switches / 1 set

| | |
|---|---|
| 1 set | LV848560SP |

**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


DB404322_1.eps

| | |
|---|---|
| 1 contact (5 A - 240 V) | LV848477SP |
| or 1 low-level contact | LV848478SP |

#### Auxiliary terminals for chassis alone

DB404399.eps

| | |
|---|---|
| 3 wire terminal (1 part) | LV847849SP |
| 6 wire terminal (1 part) | LV847850SP |
| Jumpers (10 parts) | LV847900SP |

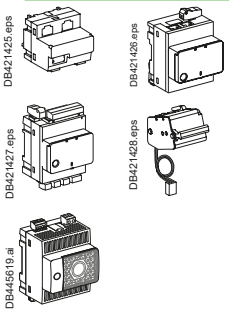
#### Auxiliary terminals for fixed circuit breaker

DB423232.eps

| | |
|---|---|
| 3 wire terminal block (1 part) | LV847074SP |
| 6 wire terminal block (1 part) | LV847075SP |

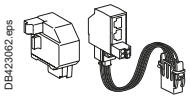
# MasterPacT MTZ2/3
## Communication, monitoring and control

### Communication option




| | | | |
|---|---|---|---|
| EIFE | Embedded Ethernet module full spare part kit for MTZ2/3-drawout | | **LV851200SP** |
| | Embedded Ethernet spare part module MTZ1/2/3-drawout | | **LV851001SP** |
| IFM | Modbus interface | | **LV434000** |
| IFE | Ethernet interface LV breaker | | **LV434001** |
| | Ethernet interface for LV breakers and gateway | | **LV434002** |
| Microswitches for MTZ2/3 | | | **LV847905SP** |
| EIFE Acessories spare part kit for MTZ2/3 | | | **LV851220SP** |
| I/O application module | | | **LV434063** |
| Panel Server | Ethernet/Wi-Fi Gateway | 110-227 V AC/DC 50/60 Hz | **PAS400, PAS600** |
| | | 24 V DC | **PAS600L** |
| | Ethernet/Wi-Fi Gateway and Data logger | 110-227 V AC/DC 50/60 Hz | **PAS800** |
| | | 24 V DC | **PAS800L** |
| | | PoE (Power over Ethernet) | **PAS800P** |

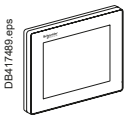
### ULP port modules




| | |
|---|---|
| ULP port - for MasterPacT MTZ2/3 - fixed | **LV850061SP** |
| ULP port - for MasterPacT MTZ2/3 - drawout | **LV850062SP** |

### Monitoring and control

#### Ethernet display module

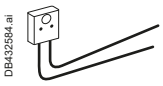



| | |
|---|---|
| Switchboard front display module FDM121 | **TRV00121** |
| Switchboard front display module FDM128 | **LV434128** |

#### ULP wiring accessories [1]

| | |
|---|---|
| Breaker ULP cord L = 0.35 m | **LV434195** |
| Breaker ULP cord L = 1.3 m | **LV434196** |
| Breaker ULP cord L = 3 m | **LV434197** |
| Breaker ULP cord L = 5 m | **LV434198** |

| | |
|---|---|
| Connector Modbus adaptor | **LV434211** |




| | |
|---|---|
| 10 Modbus line terminators | **VW3A8306DRC** [2] |

| | |
|---|---|
| 5 RJ45 connectors female/female | **TRV00870** |

| | |
|---|---|
| 10 ULP line terminators | **TRV00880** |

| | |
|---|---|
| 10 RJ45/RJ45 male cord L = 0.3 m | **TRV00803** |
| 10 RJ45/RJ45 male cord L = 0.6 m | **TRV00806** |
| 5 RJ45/RJ45 male cord L = 1 m | **TRV00810** |
| 5 RJ45/RJ45 male cord L = 2 m | **TRV00820** |
| 5 RJ45/RJ45 male cord L = 3 m | **TRV00830** |
| 1 RJ45/RJ45 male cord L = 5 m | **TRV00850** |

[1] For measurement display with MicroLogic Active A/E.
[2] See www.schneider-electric.com.

Life Is On | Schneider Electric

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