

Low Voltage

# EasyPact EZC

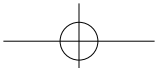
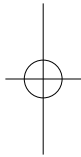
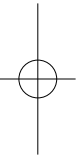
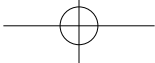
Moulded-case circuit breakers  
from 15 to 630 A

Catalog  
2016



Life Is On

Schneider  
Electric



# So easy, so simple

With just three sizes of circuit breakers, Schneider Electric's EasyPact™ EZC system is the simple, universal solution to fit all low-voltage protection needs.

- > The fixed version is particularly adapted to the OEM and Building markets, offering optimum performance at a competitive price.
- > The plug-in version offers an additional function dedicated to the Marine market.



Buildings



Marine



OEM

CPB10007-001



EasyPact™ EZC range complies with worldwide standards :

- IEC 60947-2
- EN 60947-2
- JISC8201-2-1/C8201-2-2 (annex 1 and 2)
- GB 14048.2
- NEMA-AB1
- UL508 <sup>(1)</sup>
- CSA22-2 <sup>(1)</sup>

• IACS for Merchant Marine  
(International Association of Classification Societies:  
ABS, BV, CCS, DNV, GL, KRS, LR, NK, RINA)\*\*

<sup>(1)</sup> Only for the 100A and 250A models

With international certifications and approvals by independent laboratories:

ASEFA, KEMA, TILVA, TÜV, UL

And compliance to RoHS Directive

(Restriction of Hazardous Substances)

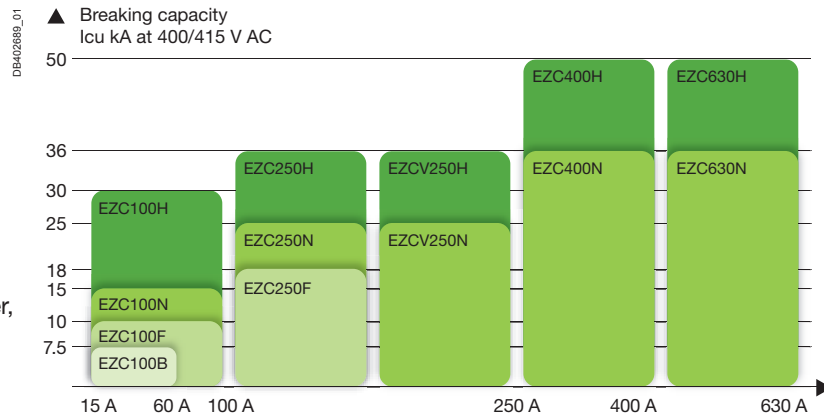
# Easy choice for total Simplicity

# So easy, so simple

## Easy to choose

*EasyPact™ EZC brings you easy solutions*

- > From 15 A to 630 A
- > Up to 50 kA at 415 V
- > Up to 4 poles
- > In only three frame sizes
- > With a complete range of auxiliaries: rotary commands, auxiliaries, shunt trip, phase barrier, terminal cover, undervoltage trip



## Easy to install

- > Fixed front mounting
- > Plug-in mounting
- > Front connections
- > Bare cables connected through cable lugs, screwed inside the breaker
- > Field-installable auxiliaries and accessories
- > Built-in earth-leakage protection
- > Interchangeable MCCB and ELCB

**EasyPact™ EZC 250 ELCB**  
Built-in Integrated Earth-Leakage Circuit Breaker (ELCB) function

- fully interchangeable with MCCB
- same MCCB foot print and panel cut

## Easy to use

- > A thermal calibration suitable for MCCB use at 50 °C without derating (up to 250A)
- > Positive contact indication for safety and reliability
- > A smaller case optimized for tight spaces



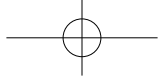
**EasyPact™ EZC:**  
Build your complete  
solution with  
Schneider Electric



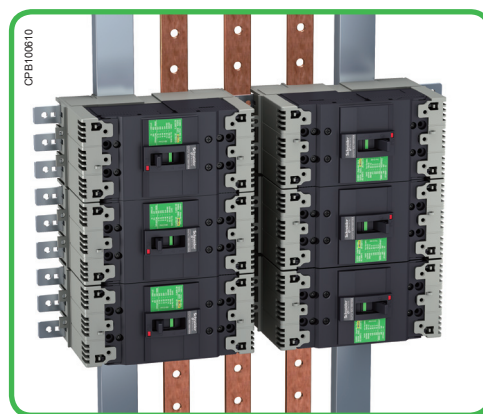
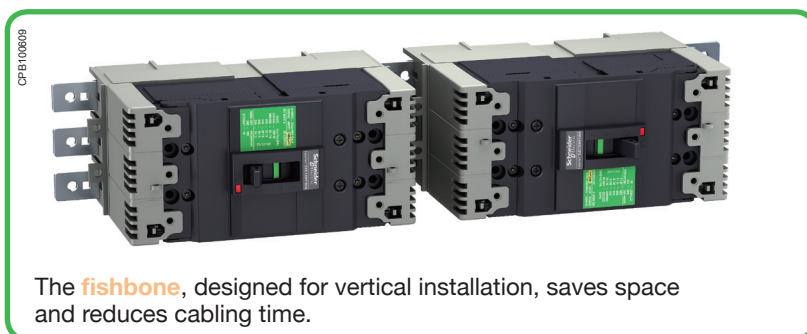
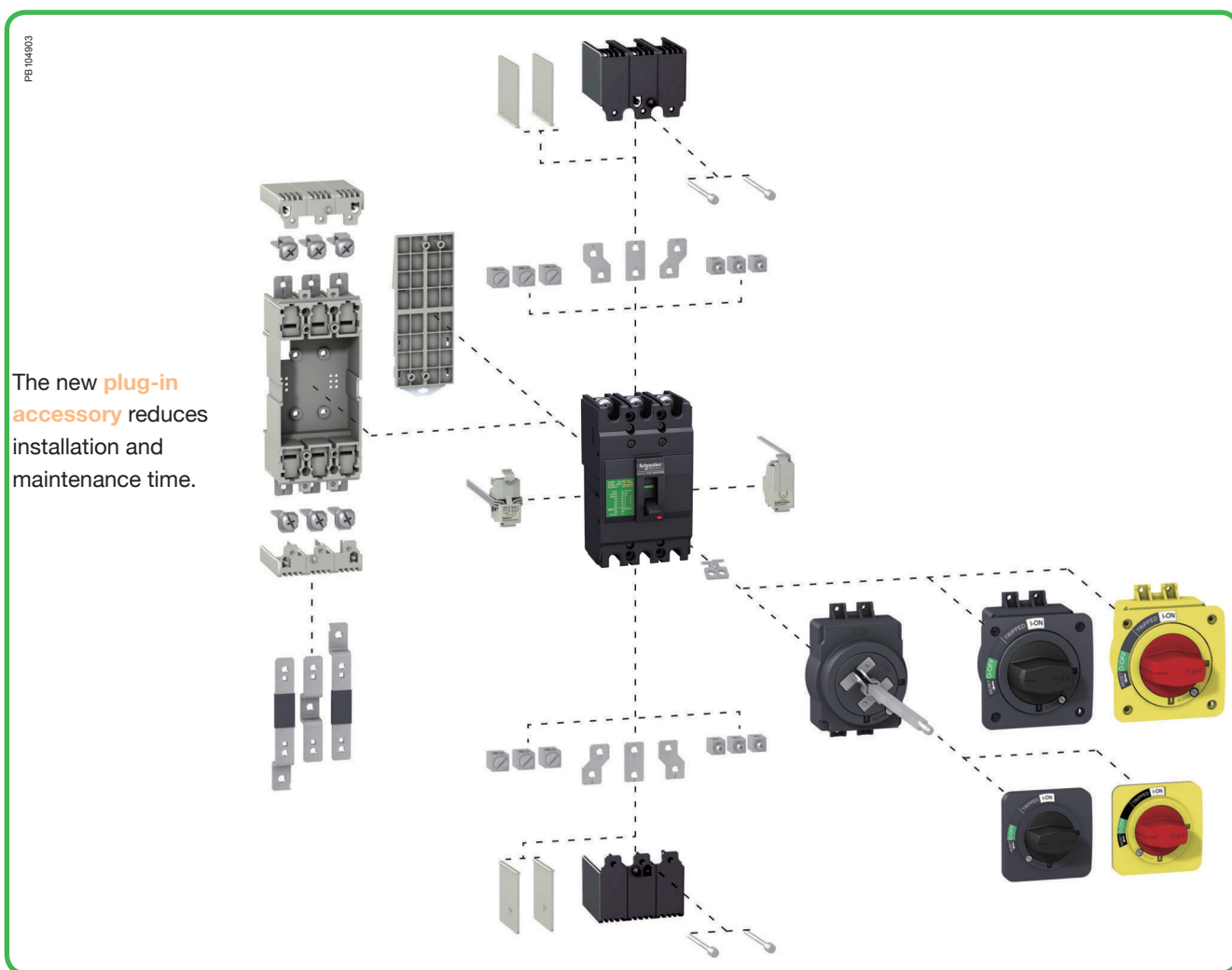
**Timely  
delivery,  
wherever  
you are**

Schneider Electric offers a world-renowned logistics network capable of getting EasyPact™ EZC products to you fast, wherever you are.

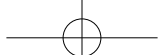




## Accessories



> Make the most of your energy™



Over **75%** of Schneider Electric  
manufactured products awarded  
**Green Premium** eco-mark



Green Premium, stamping the most  
eco-friendly products of the industry



Green Premium is the only label  
allowing you to develop effectively an  
environmental policy and to promote it,  
while preserving your business efficiency.

It guarantees compliance with the most  
up-to-date environmental regulations,  
but it is more than this.

With Green Premium eco-mark,  
Schneider Electric helps you:

- Calculate the carbon footprint of  
the solutions you offer
- Ensure full regulation compliance about  
substances and chemical components
- Deliver all appropriate information  
to certify eco-design of your solutions
- Easily manage products end of life,  
while ensuring optimized recycling.

With Green Premium, Schneider Electric commits to be transparent disclosing  
extensive and reliable information on environmental impacts of its products:

### RoHS

Schneider Electric applies RoHS requirements to all its products and worldwide, even for  
the numerous ones which are not in the scope of the regulation. Compliance certificates  
are available for all products involved.

### REACH

Schneider Electric applies REACH regulation worldwide, and releases all information  
about presence of Substances of Very High-Concern (SVHC) in its products.

### PEP: Product Environmental Profile

For all its products, Schneider Electric publishes the most complete set of environmental  
data, including carbon footprint and energy consumption for each of the life cycle  
phases, in compliance with ISO 14025 PEPecopassport program.

### EoLI: End of Life Instructions

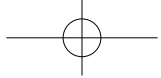
Available at a click, these documents provide:

- Recyclability rates of the products
- Information to mitigate personnel hazards during dismantling and before  
recycling operations
- Parts identification either for re-use, or for selective treatment to mitigate environmental  
hazards, or incompatibility with usual recycling process.



Discover what we  
mean by green ....  
and

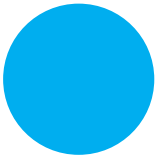
CHECK a PRODUCT!



# General contents

Functions  
and characteristics

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Busbars

B-1



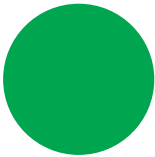
Installation guide

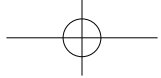
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Catalogue numbers

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**Electrical auxiliaries 100-250AF**

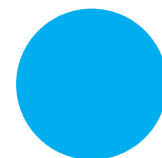
|                      |      |
|----------------------|------|
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|                          |      |
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*Busbars* *B-1**Installation guide* *C-1**Catalogue numbers* *D-1*

CDB500611



CDB500612

|                 |          |              |      |
|-----------------|----------|--------------|------|
| Ui=690V~50/60Hz | Uimp=6kV | Cat.A        | 40°C |
| IEC 60947-2     | Ue (V)   | Icu/Ics (kA) |      |
| JIS C8201-2-1   | 230/240~ | 85 / 43      |      |
|                 | 400/415~ | 36 / 18      |      |
|                 | 440 ~    | 25 / 13      |      |
|                 | 550 ~    | 10 / 5       |      |
|                 | 250 ~    | 30 / 15      |      |
| NEMA - AB1      | U (V)    | HIC (kAmps)  |      |
|                 | 240 ~    | 85           |      |
|                 | 277/480~ | 25           |      |
| DL 06253        |          |              |      |

Standardised characteristics indicated on the rating plate:

Ui: rated insulation voltage  
Uimp: rated impulse withstand voltage  
Ue: rated operational voltage  
Icu: ultimate breaking capacity, for various values of the rated operational voltage Ue  
Cat: utilisation category  
Ics: service breaking capacity  
In: rated current  
X-I suitability for isolation

### Compliance with standards

EasyPact EZC circuit breakers and auxiliaries comply with the following international standards:

- IEC 60947-1 - general rules
- IEC 60947-2 - low-voltage switchgear and controlgear, part 2 (circuit breakers)
- European (EN 60947-1 and EN 60947-2) and the corresponding national standards
- GB 14048.2
- JIS C8201-2-1 Annex 1 and Annex 2, for molded case circuit breakers
- JIS C8201-2-2 Annex 1 and Annex 2, for earth-leakage circuit breakers
- NEMA-AB1 (High Interrupting Capacity): American standard
- UL 60947-4-1(old UL508)/CSA 22-2 no. 14.

### Approvals and Certifications

- IEC certification by independent laboratories (ASEFA, KEMA, TÜV)
- CE marking
- CCC certified by third party Tilva
- UL 60947-4-1(old UL508) certified by third party Underwriter Laboratories as a "Manual Motor Controller" (E2C100/E2C250/E2CV250).

### Vibration and shock withstand test

EasyPact EZC circuit breakers resist mechanical vibrations and shocks. Tests are carried out in compliance with standard IEC 60068-2-6 for the levels required by merchant-marine inspection organisation IACS: International Association of Classification Societies up to 250 A (ABS, BV, DNV, LR, KRS, RINA, NK):

- 2 to 13.2 Hz: amplitude  $\pm 1$  mm
- 13.2 to 100 Hz: acceleration 0.7 g.

### Pollution degree

EasyPact EZC circuit breakers are certified for operation in pollution-degree III environments as defined by IEC standard 60947 (industrial environments).

### Tropicalisation

EasyPact EZC circuit breakers have successfully passed the tests prescribed by the following standards for extreme atmospheric conditions:

- IEC 60068-2-1 - dry cold (-55 °C)
- IEC 60068-2-2 - dry heat (+85 °C)
- IEC 60068-2-30 - damp heat (95 % relative humidity at 55 °C)
- IEC 60068-2-52 - salt mist (severity level 2).

### Positive contact indication

All EasyPact EZC circuit breakers are suitable for isolation as defined in IEC standard 60947-2:

- the isolation position corresponds to the O (OFF) position
- the operating handle cannot indicate the O (OFF) position ("green colour" visible) unless the contacts are effectively open
- padlocks may not be installed unless the contacts are open
- installation of a rotary handle does not alter the reliability of the position-indication system.

The isolation function is certified by tests guaranteeing:

- the mechanical reliability of the position indication system
- the absence of leakage currents
- overvoltage withstand capacity between upstream and downstream connections.

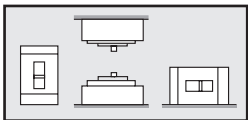
EasyPact EZC circuit breakers take into account important concerns for environmental protection. Most components are recyclable and the parts are marked as specified in applicable standards.

CPB100602



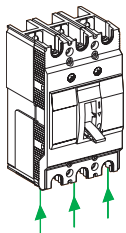


DB116374



Installation positions.

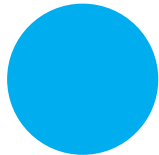
DB116375



Reverse feeding.

### Ambient temperature

- EasyPact EZC circuit breakers has been particularly designed to hold 100 % In at 50 °C without tripping in normal condition (except for earth-leakage circuit breakers).
- EasyPact EZC circuit breakers may be used between -25 °C and +70 °C.
- The permissible storage-temperature range for EasyPact EZC circuit breakers in the original packing is -35 °C to +85 °C.



### Installation

EasyPact EZC circuit breakers are designed for easy installation in the various types of switchboards. They may be mounted vertically, horizontally or flat on their back without any derating of characteristics.

### Power supply

EasyPact EZC circuit breaker can be supplied from either the top or the bottom (reverse feeding) without any reduction in performance. For earth-leakage circuit breakers, reverse feeding is possible only up to 240 V AC. This capability facilitates connection when installed in a switchboard.

### Degree of protection

As per standards IEC 60529 (IP degree of protection) and EN 50102 (IK degree of protection against external mechanical impacts).

#### Bare circuit breaker with terminal shields

|          |  |                                    |      |      |
|----------|--|------------------------------------|------|------|
| DB116376 |  | With toggle                        | IP20 | IK07 |
|          |  |                                    |      |      |
| DB116377 |  | With direct rotary handle standard | IP40 | IK07 |
|          |  |                                    |      |      |

#### Circuit breaker installed in a switchboard

|          |  |          |  |                                            |      |      |
|----------|--|----------|--|--------------------------------------------|------|------|
| DB116378 |  | DB116379 |  | With toggle                                | IP40 | IK07 |
|          |  |          |  |                                            |      |      |
| DB116380 |  |          |  | With direct rotary handle standard/VDE MCC | IP54 | IK07 |
|          |  |          |  |                                            |      |      |
| DB116381 |  |          |  | With extended rotary handle                | IP54 | IK08 |
|          |  |          |  |                                            |      |      |





Earth-leakage protection

EasyPact EZC circuit breakers have a specific version including earth-leakage protection. This protection is fully integrated inside the breaker and does not require any additional space. EasyPact EZC circuit breakers and earth-leakage circuit breakers are fully interchangeable.

Compliance with standards

EasyPact EZC earth-leakage circuit breakers comply with all the international standards listed [page A-2](#):

- IEC 60947-1
- IEC 60947-2
- EN 60947-1
- EN 60947-2
- GB 14048.2
- JIS C8201-2-2 Annex 1 and Annex 2
- NEMA-AB1 (High Interrupting Capacity)
- UL 60947-4-1 (old UL508)/CSA 22-2 no. 14.

They also comply with:

- VDE 664, operation down to -25 °C
- IEC 60255-4 and IEC 60801-2 to 60801-5 covering protection against nuisance tripping due to transient overvoltages, lightning strikes, switching of devices on the distribution system, electrostatic discharges, radiofrequency interference.

Power supply

Reverse feeding

EasyPact EZC earth-leakage circuit breakers can be supplied from either the top or the bottom for voltages up to 240 V AC. For voltages over 240 V AC, only supply from the top is possible (Line-Load indication on the cover of the breaker).

Power supply of the electronics

EasyPact EZC earth-leakage circuit breakers are self-supplied by the distribution-system voltage and therefore do not require any external source. They fully comply with new IEC requirements (Annex B): they are powered from the three phases and continue to function even if one phase is missing.

Dielectric tests

EasyPact EZC earth-leakage circuit breakers are equipped with a disconnecting switch in order to protect the electronics during dielectric tests. When the disconnecting switch is activated, the circuit breaker is automatically tripped. It is mechanically impossible to switch on the circuit breaker, until the earth-leakage function is re-energised.

Tripping features

Tripping indications:

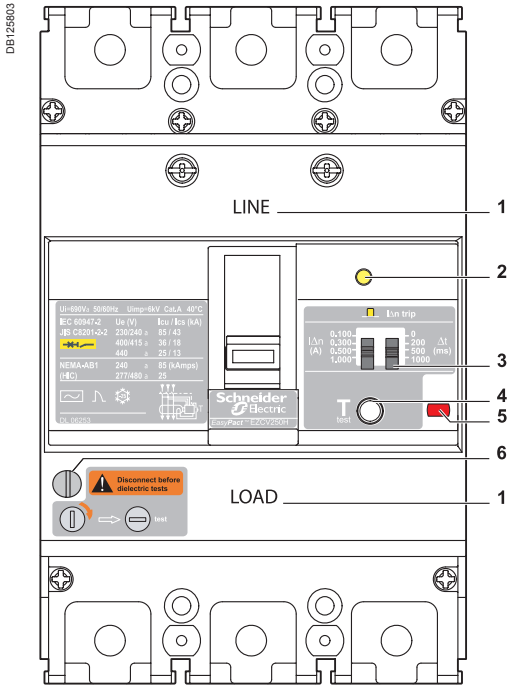
- EasyPact EZC earth-leakage circuit breakers have a yellow mechanical indicator to locally signal tripping due to an earth fault.
- EasyPact EZC earth-leakage circuit breakers may be equipped with an earth-leakage alarm switch (ALV) to remotely signal tripping due to an earth fault.

Resetting

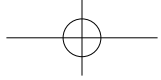
EasyPact EZC earth-leakage circuit breakers are fully reset by the operating handle. After resetting, tripping indicators (mechanical and ALV) come to normal position.

ELCB protection characteristics

|                                |                        |                                 |
|--------------------------------|------------------------|---------------------------------|
| Sensitivity $I_{\Delta n}$ (A) | adjustable             | 0.1 - 0.3 - 0.5 - 1             |
| Time delay                     | Intentional delay (ms) | adjustable 0 - 200 - 500 - 1000 |
|                                | Max. breaking time (s) | 0.15 - 0.4 - 1 - 2              |
| Rated voltage                  | AC 50/60 Hz (V)        | 100...440                       |



- 1 Line-Load ( $U_e > 300$  V AC)
- 2 Mechanical indicator (ELCB)
- 3 Adjustable settings  $I_{\Delta n}$  and time delay
- 4 ELCB test button
- 5 Push to trip button (MCCB)
- 6 Dielectric tests: disconnecting switch



## Earth-leakage circuit breakers

With three built-in protections:

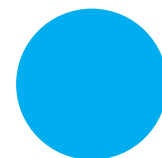
- overload
- short-circuit
- earth-leakage.

From 63 A to 250 A

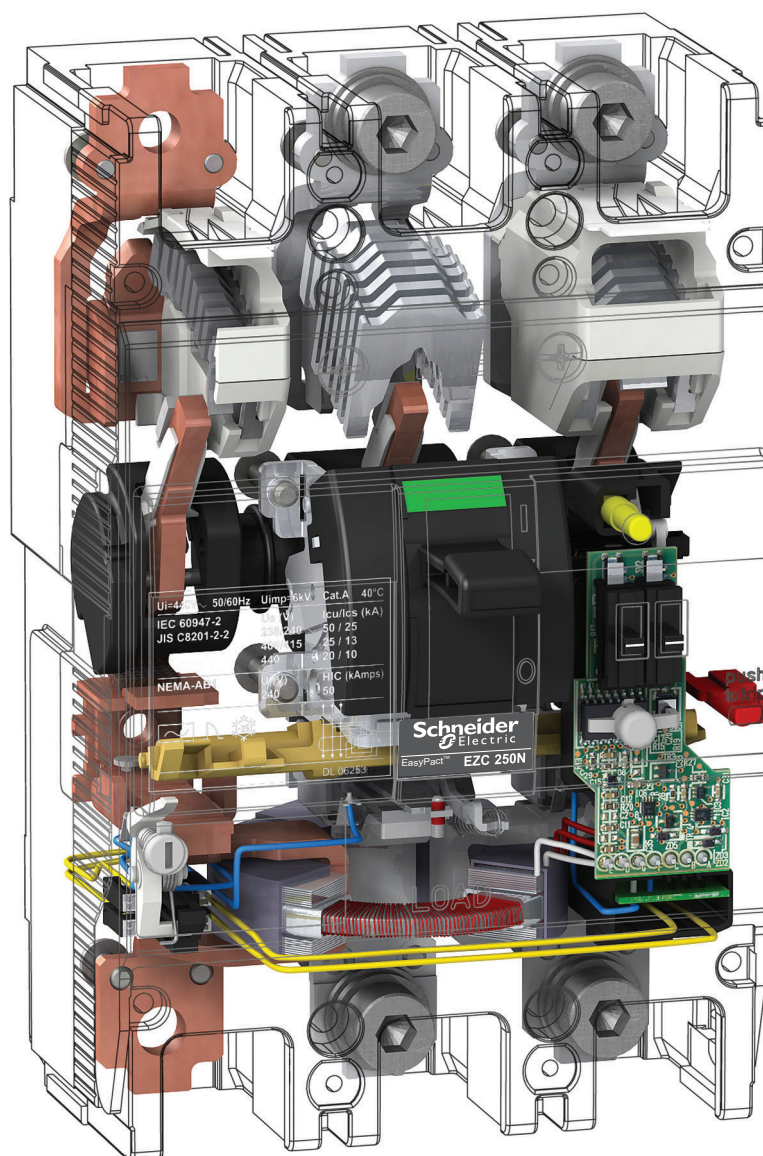
With adjustable sensibility and time delay

Up to 36 kA at 415 V

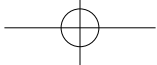
In 3 poles and 4 poles



DB125805







Functions  
and characteristics

Selection table

CPB100600



EZC100-1P.

CPB100601



EZC100-2P.

CPB100602



EZC100-3P.

CPB100603



EZC100-4P.

CPB100604



EZC250-3P.

EasyPact EZC circuit breakers

|                   |    |          |
|-------------------|----|----------|
| Fixed version     |    |          |
| Plug-in version   |    |          |
| Number of poles   |    |          |
| Rated current (A) | In | at 40 °C |

|                                      |      |             |
|--------------------------------------|------|-------------|
| Rated insulation voltage (V)         | Ui   |             |
| Rated impulse withstand voltage (kV) | Uimp |             |
| Rated operational voltage (V)        | Ue   | AC 50/60 Hz |
|                                      |      | DC          |

Electrical characteristics as per IEC 60947-2, EN 60947-2, JIS C8201-2-1

|                                          |     |             |                  |
|------------------------------------------|-----|-------------|------------------|
| Ultimate breaking capacity (kA rms)      | Icu | AC 50/60 Hz | 110/130 V        |
|                                          |     |             | 220/230/240 V    |
|                                          |     |             | 380 V            |
|                                          |     |             | <b>400/415 V</b> |
|                                          |     |             | 440 V            |
|                                          |     | DC          | 550 V            |
|                                          |     |             | 125 V (1P)       |
|                                          |     |             | 250 V            |
|                                          |     |             | (2P in series)   |
|                                          |     |             | 110-400 V        |
| Rated service breaking capacity (kA rms) | Ics | % Icu       | 415-550 V        |

|                           |            |          |
|---------------------------|------------|----------|
| Suitability for isolation |            |          |
| Utilisation category      |            |          |
| Pollution degree          |            |          |
| Endurance (C-O cycles)    | Mechanical |          |
|                           | Electrical | In/415 V |

Electrical characteristics as per NEMA-AB1

|                            |     |             |           |
|----------------------------|-----|-------------|-----------|
| Breaking capacity (kA rms) | HIC | AC 50/60 Hz | 240 V     |
|                            |     |             | 277/480 V |

Protection

|                          |          |               |
|--------------------------|----------|---------------|
| Overload protection      | Bimetal  |               |
| Instantaneous protection | Magnetic | Fixed (±20 %) |

Auxiliaries

|                     |                      |      |
|---------------------|----------------------|------|
| Indication contacts | Auxiliary switch     | AX   |
|                     | Alarm switch         | AL   |
|                     | Combined AX + AL     | AXAL |
| Voltage releases    | Shunt trip release   | SHT  |
|                     | Undervoltage release | UVR  |

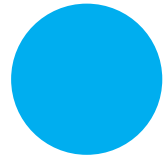
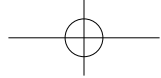
Installation

|                     |                          |                    |
|---------------------|--------------------------|--------------------|
| Connection          | Crimp lugs/bars          |                    |
| Accessories         | Box lugs for bare cables |                    |
|                     | Rotary handles           | Direct<br>Extended |
| Terminal extensions |                          |                    |
| Spreaders           |                          |                    |
| Phase barriers      |                          |                    |
| Terminal shields    |                          |                    |
| Padlocking system   |                          |                    |
| DIN rail adaptor    |                          |                    |

Dimension and weight

|                 |       |
|-----------------|-------|
| Dimensions (mm) | D x H |
|                 | W     |

|             |
|-------------|
| Weight (kg) |
|-------------|



|  | EZC100B                                | EZC100F                                                 | EZC100N                                                 | EZC100H                                                 |                                                         | EZC250F                                                 | EZC250N                                | EZC250H                                |                                        |
|--|----------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|
|  | ■                                      | ■                                                       | ■                                                       | ■                                                       | ■                                                       | ■                                                       | ■                                      | ■                                      |                                        |
|  | ■                                      | ■                                                       | -                                                       | ■ <sup>(4)</sup>                                        | -                                                       | ■ <sup>(4)</sup>                                        | ■                                      | ■                                      |                                        |
|  | 3                                      | 3                                                       | 1                                                       | 3-4                                                     | 1                                                       | 2-3-4                                                   | 3                                      | 3                                      | 2-3                                    |
|  | 15, 16, 20, 25, 30, 32, 40, 45, 50, 60 | 15, 16, 20, 25, 30, 32, 40, 45, 50, 60, 63, 75, 80, 100 | 15, 16, 20, 25, 30, 32, 40, 45, 50, 60, 63, 75, 80, 100 | 15, 16, 20, 25, 30, 32, 40, 45, 50, 60, 63, 75, 80, 100 | 15, 16, 20, 25, 30, 32, 40, 45, 50, 60, 63, 75, 80, 100 | 15, 16, 20, 25, 30, 32, 40, 45, 50, 60, 63, 75, 80, 100 | 100, 125, 150, 160, 175, 200, 225, 250 | 100, 125, 150, 160, 175, 200, 225, 250 | 100, 125, 150, 160, 175, 200, 225, 250 |
|  | 690                                    | 690                                                     | 690                                                     | 690                                                     | 690                                                     | 690                                                     | 690                                    | 690                                    | 690                                    |
|  | 6                                      | 6                                                       | 6                                                       | 6                                                       | 6                                                       | 6                                                       | 6                                      | 6                                      | 6                                      |
|  | 550                                    | 550                                                     | 415                                                     | 550                                                     | 415                                                     | 550                                                     | 550                                    | 550                                    | 550                                    |
|  | -                                      | 250                                                     | 125                                                     | 250                                                     | 125                                                     | 250                                                     | 250                                    | 250                                    | 250                                    |
|  |                                        |                                                         |                                                         |                                                         |                                                         |                                                         |                                        |                                        |                                        |
|  | 10                                     | 25                                                      | 25                                                      | 25                                                      | 50                                                      | 100                                                     | 25                                     | 50                                     | 85                                     |
|  | 10                                     | 25                                                      | 18                                                      | 25                                                      | 25                                                      | 100 <sup>(1)</sup>                                      | 25                                     | 50                                     | 85                                     |
|  | 7.5                                    | 10                                                      | 2.5                                                     | 18                                                      | 5                                                       | 30                                                      | 18                                     | 25                                     | 36                                     |
|  | <b>7.5</b>                             | <b>10</b>                                               | <b>2.5</b>                                              | <b>15</b>                                               | <b>5</b>                                                | <b>30</b>                                               | <b>18</b>                              | <b>25</b>                              | <b>36</b>                              |
|  | 5                                      | 7.5                                                     | -                                                       | 10                                                      | -                                                       | 20                                                      | 15                                     | 20                                     | 25                                     |
|  | 2.5                                    | 5                                                       | -                                                       | 5                                                       | -                                                       | 10                                                      | 5                                      | 8                                      | 10                                     |
|  | -                                      | 5                                                       | 5                                                       | 5                                                       | 10                                                      | 10                                                      | 5                                      | 20                                     | 30                                     |
|  | -                                      | 5                                                       | -                                                       | 5                                                       | -                                                       | 10                                                      | 5                                      | 20                                     | 30                                     |
|  |                                        |                                                         |                                                         |                                                         |                                                         |                                                         |                                        |                                        |                                        |
|  | 25 %                                   | 50 %                                                    | 50 %                                                    | 50 %                                                    | 50 %                                                    | 50 %                                                    | 50 %                                   | 50 %                                   | 50 %                                   |
|  | 25 %                                   | 50 %                                                    | 50 %                                                    | 50 %                                                    | 50 %                                                    | 25 %                                                    | 50 %                                   | 50 %                                   | 50 %                                   |
|  | ■                                      | ■                                                       | ■                                                       | ■                                                       | ■                                                       | ■                                                       | ■                                      | ■                                      | ■                                      |
|  | A                                      | A                                                       | A                                                       | A                                                       | A                                                       | A                                                       | A                                      | A                                      | A                                      |
|  | 3                                      | 3                                                       | 3                                                       | 3                                                       | 3                                                       | 3                                                       | 3                                      | 3                                      | 3                                      |
|  | 13 000                                 | 13 000                                                  | 13 000                                                  | 13 000                                                  | 13 000                                                  | 13 000                                                  | 10 000                                 | 10 000                                 | 10 000                                 |
|  | 4 000                                  | 4 000                                                   | 4 000                                                   | 4 000                                                   | 4 000                                                   | 4 000                                                   | 5 000                                  | 5 000                                  | 5 000                                  |
|  |                                        |                                                         |                                                         |                                                         |                                                         |                                                         |                                        |                                        |                                        |
|  | -                                      | -                                                       | 10                                                      | 25                                                      | 18                                                      | 100                                                     | 25                                     | 50                                     | 85                                     |
|  | -                                      | -                                                       | 10 <sup>(2)</sup>                                       | 10                                                      | 18 <sup>(2)</sup>                                       | 18 <sup>(3)</sup>                                       | 15                                     | 18                                     | 25 <sup>(3)</sup>                      |
|  |                                        |                                                         |                                                         |                                                         |                                                         |                                                         |                                        |                                        |                                        |
|  | fixed                                  | fixed                                                   | fixed                                                   | fixed                                                   | fixed                                                   | fixed                                                   | fixed                                  | fixed                                  | fixed                                  |
|  | fixed                                  | fixed                                                   | fixed                                                   | fixed                                                   | fixed                                                   | fixed                                                   | 10 In                                  | 10 In                                  | 10 In                                  |
|  |                                        |                                                         |                                                         |                                                         |                                                         |                                                         |                                        |                                        |                                        |
|  | ■                                      | ■                                                       | -                                                       | ■                                                       | -                                                       | ■                                                       | ■                                      | ■                                      | ■                                      |
|  | ■                                      | ■                                                       | -                                                       | ■                                                       | -                                                       | ■                                                       | ■                                      | ■                                      | ■                                      |
|  | ■                                      | ■                                                       | -                                                       | ■                                                       | -                                                       | ■                                                       | ■                                      | ■                                      | ■                                      |
|  | ■                                      | ■                                                       | -                                                       | ■                                                       | -                                                       | ■                                                       | ■                                      | ■                                      | ■                                      |
|  | ■                                      | ■                                                       | -                                                       | ■                                                       | -                                                       | ■                                                       | ■                                      | ■                                      | ■                                      |
|  |                                        |                                                         |                                                         |                                                         |                                                         |                                                         |                                        |                                        |                                        |
|  | ■                                      | ■                                                       | ■                                                       | ■                                                       | ■                                                       | ■                                                       | ■                                      | ■                                      | ■                                      |
|  | ■                                      | ■                                                       | ■                                                       | ■                                                       | ■                                                       | ■                                                       | ■                                      | ■                                      | ■                                      |
|  | ■                                      | ■                                                       | -                                                       | ■                                                       | -                                                       | ■ <sup>(3)</sup>                                        | ■                                      | ■                                      | ■                                      |
|  | ■                                      | ■                                                       | -                                                       | ■                                                       | -                                                       | ■ <sup>(3)</sup>                                        | ■                                      | ■                                      | ■                                      |
|  | -                                      | -                                                       | -                                                       | -                                                       | -                                                       | -                                                       | ■                                      | ■                                      | ■                                      |
|  | ■                                      | ■                                                       | -                                                       | ■                                                       | -                                                       | ■                                                       | ■                                      | ■                                      | ■                                      |
|  | ■                                      | ■                                                       | ■                                                       | ■                                                       | ■                                                       | ■                                                       | ■                                      | ■                                      | ■                                      |
|  | ■                                      | ■                                                       | -                                                       | ■                                                       | -                                                       | ■ <sup>(3)</sup>                                        | ■                                      | ■                                      | ■                                      |
|  | ■                                      | ■                                                       | ■                                                       | ■                                                       | ■                                                       | ■                                                       | ■                                      | ■                                      | ■                                      |
|  | ■                                      | ■                                                       | ■                                                       | ■                                                       | ■                                                       | ■                                                       | -                                      | -                                      | -                                      |
|  |                                        |                                                         |                                                         |                                                         |                                                         |                                                         |                                        |                                        |                                        |
|  | 60 x 130                               | 60 x 130                                                | 60 x 130                                                | 60 x 130                                                | 60 x 130                                                | 60 x 130                                                | 60 x 165                               | 60 x 165                               | 60 x 165                               |
|  | 75                                     | 75                                                      | 25                                                      | 75 (3P)<br>100 (4P)                                     | 25                                                      | 50 (2P)<br>75 (3P)<br>100 (4P)                          | 105                                    | 105                                    | 105                                    |
|  | 0.78                                   | 0.78                                                    | 0.28                                                    | 0.78 (3P)<br>1.0 (4P)                                   | 0.28                                                    | 0.6 (2P)<br>0.78 (3P)<br>1.0 (4P)                       | 1.3                                    | 1.3                                    | 1.1 (2P)<br>1.3 (3P)                   |

(1) 50 kA for 2 poles.  
(2) For 277 V only.  
(3) For 3 and 4 poles only.  
(4) For 3P only.



Functions  
and characteristics

Selection table (cont.)

CPB100605



EZC250-4P.

CPB100606



EZCV250-4P.

CPB100607



EZC400-3P.

EasyPact EZC circuit breakers

|                   |    |          |
|-------------------|----|----------|
| Fixed version     |    |          |
| Plug-in version   |    |          |
| Number of poles   |    |          |
| Rated current (A) | In | at 40 °C |

|                                      |      |                   |
|--------------------------------------|------|-------------------|
| Rated insulation voltage (V)         | Ui   |                   |
| Rated impulse withstand voltage (kV) | Uimp |                   |
| Rated operational voltage (V)        | Ue   | AC 50/60 Hz<br>DC |

Electrical characteristics as per IEC 60947-2, EN 60947-2 and JIS C8201-2-1/C8201-2-2

|                                     |     |             |                         |
|-------------------------------------|-----|-------------|-------------------------|
| Ultimate breaking capacity (kA rms) | Icu | AC 50/60 Hz | 220/230 V               |
|                                     |     |             | 380 V                   |
|                                     |     |             | <b>400/415 V</b>        |
|                                     |     |             | 440 V                   |
|                                     |     |             | 550 V                   |
|                                     |     | DC          | 125 V (1P)              |
|                                     |     |             | 250 V<br>(2P in series) |

|                                          |            |          |
|------------------------------------------|------------|----------|
| Rated service breaking capacity (kA rms) | Ics        | % Icu    |
| Suitability for isolation                |            |          |
| Utilisation category                     |            |          |
| Pollution degree                         |            |          |
| Endurance (C-O cycles)                   | Mechanical |          |
|                                          | Electrical | In/415 V |

Electrical characteristics as per NEMA-AB1

|                            |     |             |           |
|----------------------------|-----|-------------|-----------|
| Breaking capacity (kA rms) | HIC | AC 50/60 Hz | 240 V     |
|                            |     |             | 277/480 V |

Protection

|                          |          |                |
|--------------------------|----------|----------------|
| Overload protection      | Bimetal  |                |
| Instantaneous protection | Magnetic | fixed (± 20 %) |

Earth-leakage protection

|                        |          |            |
|------------------------|----------|------------|
| Sensitivity (A)        | IΔn      | adjustable |
| Time-delay (ms)        | Δt       | adjustable |
| Max. breaking time (s) | at 2 IΔn |            |

Auxiliaries

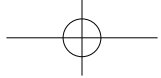
|                     |                      |        |
|---------------------|----------------------|--------|
| Indication contacts | Auxiliary switch     | OF/AX  |
|                     | Alarm switch         | SD/AL  |
|                     | Combined AX + AL     | AXAL   |
|                     | Earth-alarm switch   | ALV    |
| Voltage releases    | Shunt trip release   | MX/SHT |
|                     | Undervoltage release | MN/UVR |

Installation

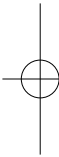
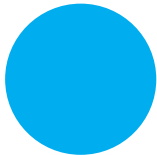
|             |                          |          |
|-------------|--------------------------|----------|
| Connection  | Crimp lugs / bars        |          |
| Accessories | Box lugs for bare cables |          |
|             | Rotary handles           | Direct   |
|             |                          | Extended |
|             | Terminal extensions      |          |
|             | Spreaders                |          |
|             | Phase barriers           |          |
|             | Terminal shields         |          |
|             | Padlocking system        |          |

Dimension and weight

|                 |       |
|-----------------|-------|
| Dimensions (mm) | D x H |
|                 | W     |
| Weight (kg)     |       |



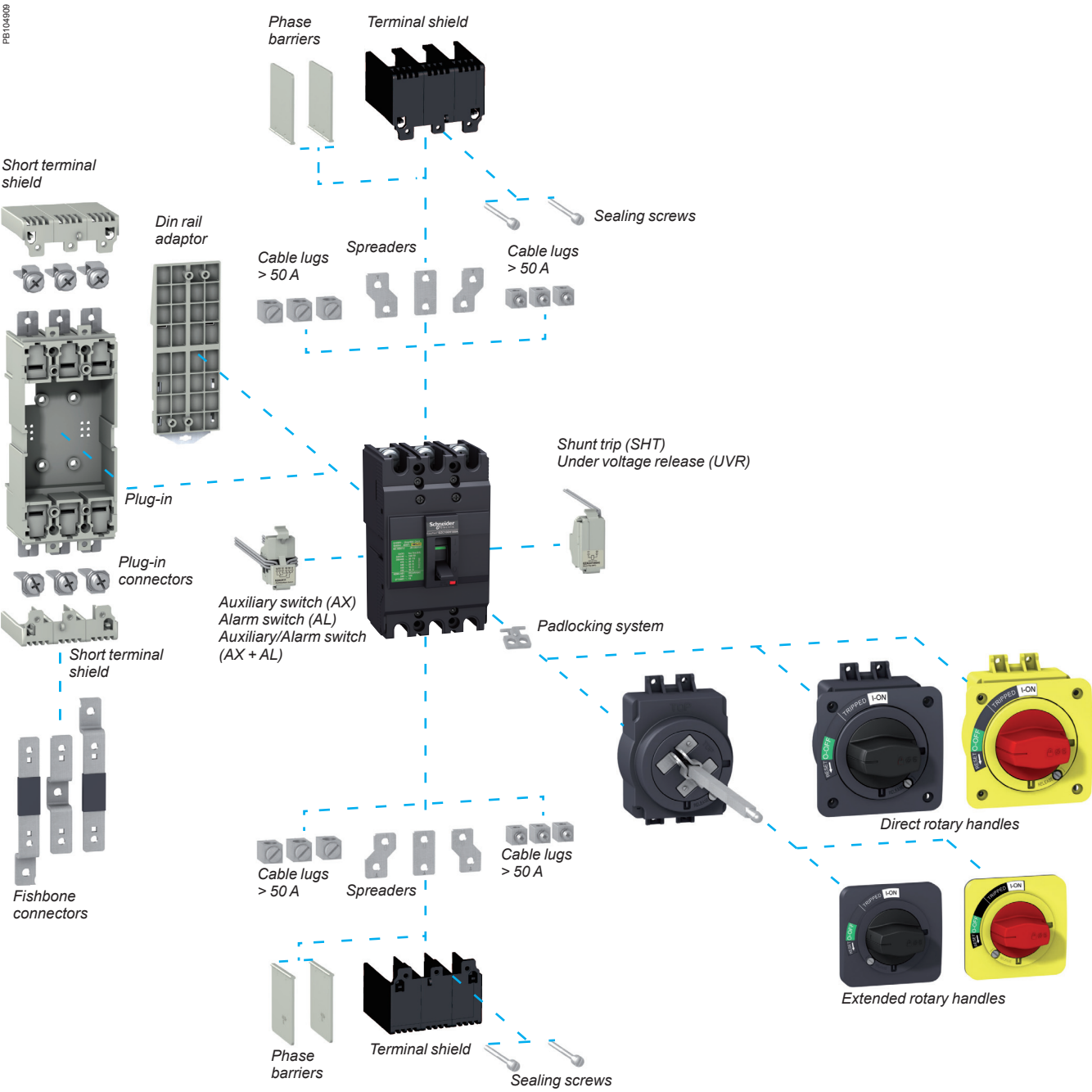
|  | EZC250N                                        | EZC250H                                        | EZCV250N                                       | EZCV250H                                       | EZC400N              | EZC400H              | EZC630N                          | EZC630H                          |
|--|------------------------------------------------|------------------------------------------------|------------------------------------------------|------------------------------------------------|----------------------|----------------------|----------------------------------|----------------------------------|
|  | ■                                              | ■                                              | ■                                              | ■                                              | ■                    | ■                    | ■                                | ■                                |
|  | ■                                              | ■                                              | ■                                              | ■                                              | -                    | -                    | -                                | -                                |
|  | 4                                              | 4                                              | 3-4                                            | 3-4                                            | 3-4                  | 3-4                  | 3-4                              | 3-4                              |
|  | 63, 80, 100, 125, 150, 160, 175, 200, 225, 250 | 63, 80, 100, 125, 150, 160, 175, 200, 225, 250 | 63, 80, 100, 125, 150, 160, 175, 200, 225, 250 | 63, 80, 100, 125, 150, 160, 175, 200, 225, 250 | 320, 350, 400        | 320, 350, 400        | 400, 500, 600                    | 400, 500, 600                    |
|  | 690                                            | 690                                            | 440                                            | 440                                            | 690                  | 690                  | 690                              | 690                              |
|  | 6                                              | 6                                              | 6                                              | 6                                              | 6                    | 6                    | 6                                | 6                                |
|  | 550                                            | 550                                            | 440                                            | 440                                            | 440                  | 440                  | 440                              | 440                              |
|  | 250                                            | 250                                            | -                                              | -                                              | 250                  | 250                  | 250                              | 250                              |
|  | 50                                             | 85                                             | 85                                             | 100                                            | 40                   | 70                   | 40                               | 70                               |
|  | 25                                             | 36                                             | 25                                             | 36                                             | 36                   | 50                   | 36                               | 50                               |
|  | 25                                             | 36                                             | 25                                             | 36                                             | 36                   | 50                   | 36                               | 50                               |
|  | 20                                             | 25                                             | 20                                             | 25                                             | 36                   | 50                   | 36                               | 50                               |
|  | 8                                              | 10                                             | -                                              | -                                              | -                    | -                    | -                                | -                                |
|  | 20                                             | 30                                             | -                                              | -                                              | -                    | -                    | -                                | -                                |
|  | 20                                             | 30                                             | -                                              | -                                              | -                    | -                    | -                                | -                                |
|  | 50 %                                           | 50 %                                           | 50 %                                           | 50 %                                           | 50 %                 | 50 %                 | 100% (220-415V)<br>50% (440V)    | 100% (220-415V)<br>50% (440V)    |
|  | ■                                              | ■                                              | ■                                              | ■                                              | ■                    | ■                    | ■                                | ■                                |
|  | A                                              | A                                              | A                                              | A                                              | A                    | A                    | A                                | A                                |
|  | 3                                              | 3                                              | 3                                              | 3                                              | 3                    | 3                    | 3                                | 3                                |
|  | 10 000                                         | 10 000                                         | 10 000                                         | 10 000                                         | 10 000               | 10 000               | 10 000                           | 10 000                           |
|  | 5 000                                          | 5 000                                          | 5 000                                          | 5 000                                          | 4 000                | 4 000                | 3 000                            | 3 000                            |
|  | 50                                             | 85                                             | 50                                             | 85                                             | 50                   | 85                   | 50                               | 85                               |
|  | 18                                             | 25                                             | -                                              | -                                              | 25                   | 35                   | 25                               | 35                               |
|  | fixed                                          | fixed                                          | fixed                                          | fixed                                          | fixed                | fixed                | fixed                            | fixed                            |
|  | 10 In                                          | 10 In                                          | 10 In                                          | 10 In                                          | 10 In                | 10 In                | 10 In (400/500A)<br>5000A (600A) | 10 In (400/500A)<br>5000A (600A) |
|  | -                                              | -                                              | 0.1/0.3/0.5/1                                  | 0.1/0.3/0.5/1                                  | -                    | -                    | -                                | -                                |
|  | -                                              | -                                              | 0/200/500/1000                                 | 0/200/500/1000                                 | -                    | -                    | -                                | -                                |
|  | -                                              | -                                              | 0.15/0.4/1/2                                   | 0.15/0.4/1/2                                   | -                    | -                    | -                                | -                                |
|  | ■                                              | ■                                              | ■                                              | ■                                              | ■                    | ■                    | ■                                | ■                                |
|  | ■                                              | ■                                              | ■                                              | ■                                              | ■                    | ■                    | ■                                | ■                                |
|  | ■                                              | ■                                              | ■                                              | ■                                              | -                    | -                    | -                                | -                                |
|  | -                                              | -                                              | ■                                              | ■                                              | -                    | -                    | -                                | -                                |
|  | ■                                              | ■                                              | ■                                              | ■                                              | ■                    | ■                    | ■                                | ■                                |
|  | ■                                              | ■                                              | ■                                              | ■                                              | ■                    | ■                    | ■                                | ■                                |
|  | ■                                              | ■                                              | ■                                              | ■                                              | ■                    | ■                    | ■                                | ■                                |
|  | ■                                              | ■                                              | ■                                              | ■                                              | ■                    | ■                    | ■                                | ■                                |
|  | ■                                              | ■                                              | ■                                              | ■                                              | ■                    | ■                    | ■                                | ■                                |
|  | ■                                              | ■                                              | ■                                              | ■                                              | ■                    | ■                    | ■                                | ■                                |
|  | ■                                              | ■                                              | ■                                              | ■                                              | ■                    | ■                    | ■                                | ■                                |
|  | ■                                              | ■                                              | ■                                              | ■                                              | ■                    | ■                    | ■                                | ■                                |
|  | ■                                              | ■                                              | ■                                              | ■                                              | ■                    | ■                    | ■                                | ■                                |
|  | 68 x 165                                       | 68 x 165                                       | 68 x 165                                       | 68 x 165                                       | 110 x 255            | 110 x 255            | 110 x 255                        | 110 x 255                        |
|  | 140                                            | 140                                            | 105 (3P)<br>140 (4P)                           | 105 (3P)<br>140 (4P)                           | 140 (3P)<br>185 (4P) | 140 (3P)<br>185 (4P) | 140 (3P)<br>185 (4P)             | 140 (3P)<br>185 (4P)             |
|  | 1.8                                            | 1.8                                            | 1.6 (3P)<br>2.1 (4P)                           | 1.6 (3P)<br>2.1 (4P)                           | 4.8 (3P)<br>6.4 (4P) | 4.8 (3P)<br>6.4 (4P) | 4.8 (3P)<br>6.4 (4P)             | 4.8 (3P)<br>6.4 (4P)             |

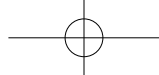


# Electrical and mechanical accessories overview

## EasyPact EZC100

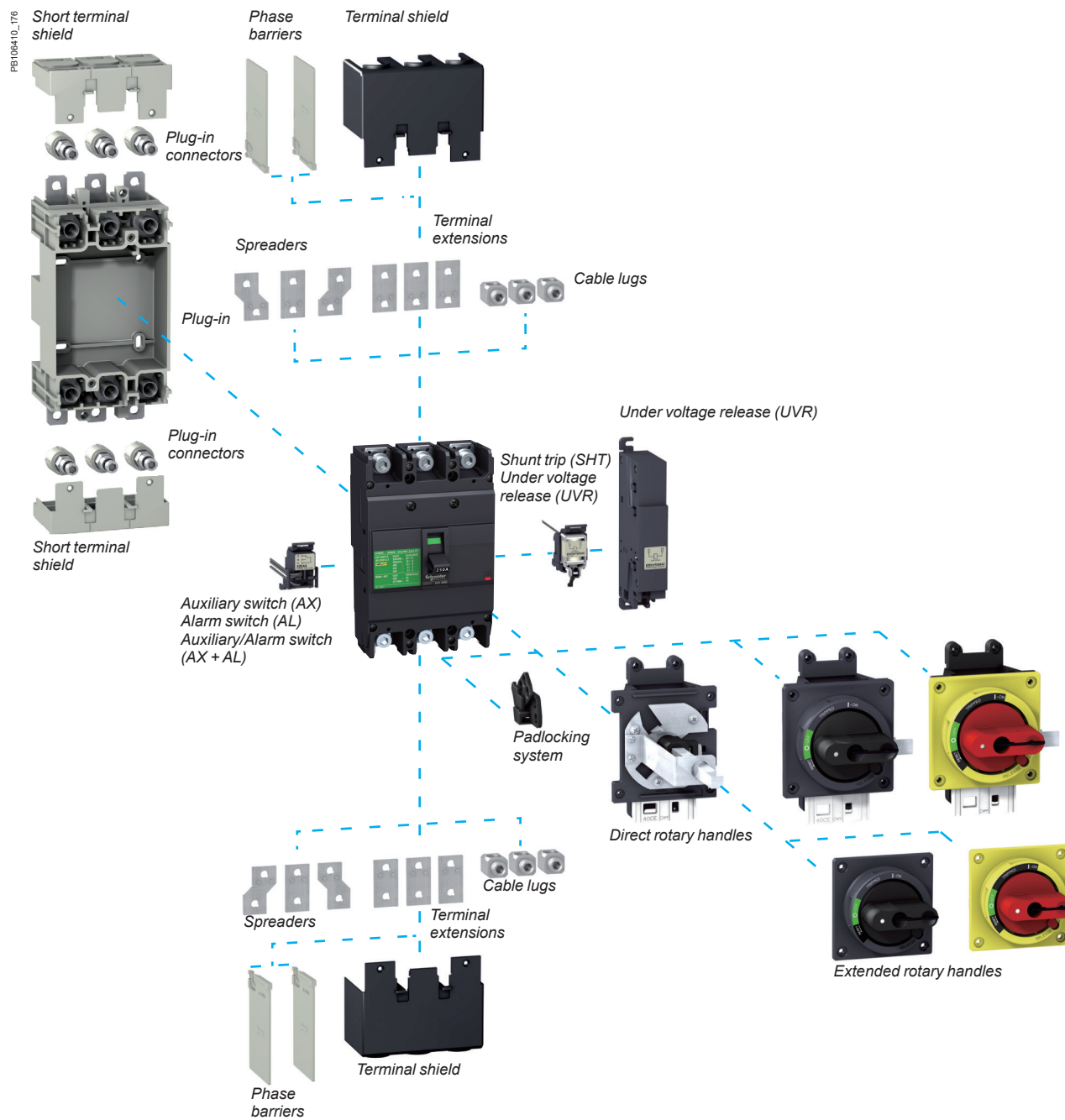
EasyPact EZC circuit breaker EZC100 comes with a full range of accessories to fulfill different application requirements and make it easy for the end-user.





## EasyPact EZC250

EasyPact EZC circuit breaker EZC250 comes with a full range of accessories to fulfill different application requirements and make it easy for the end-user.

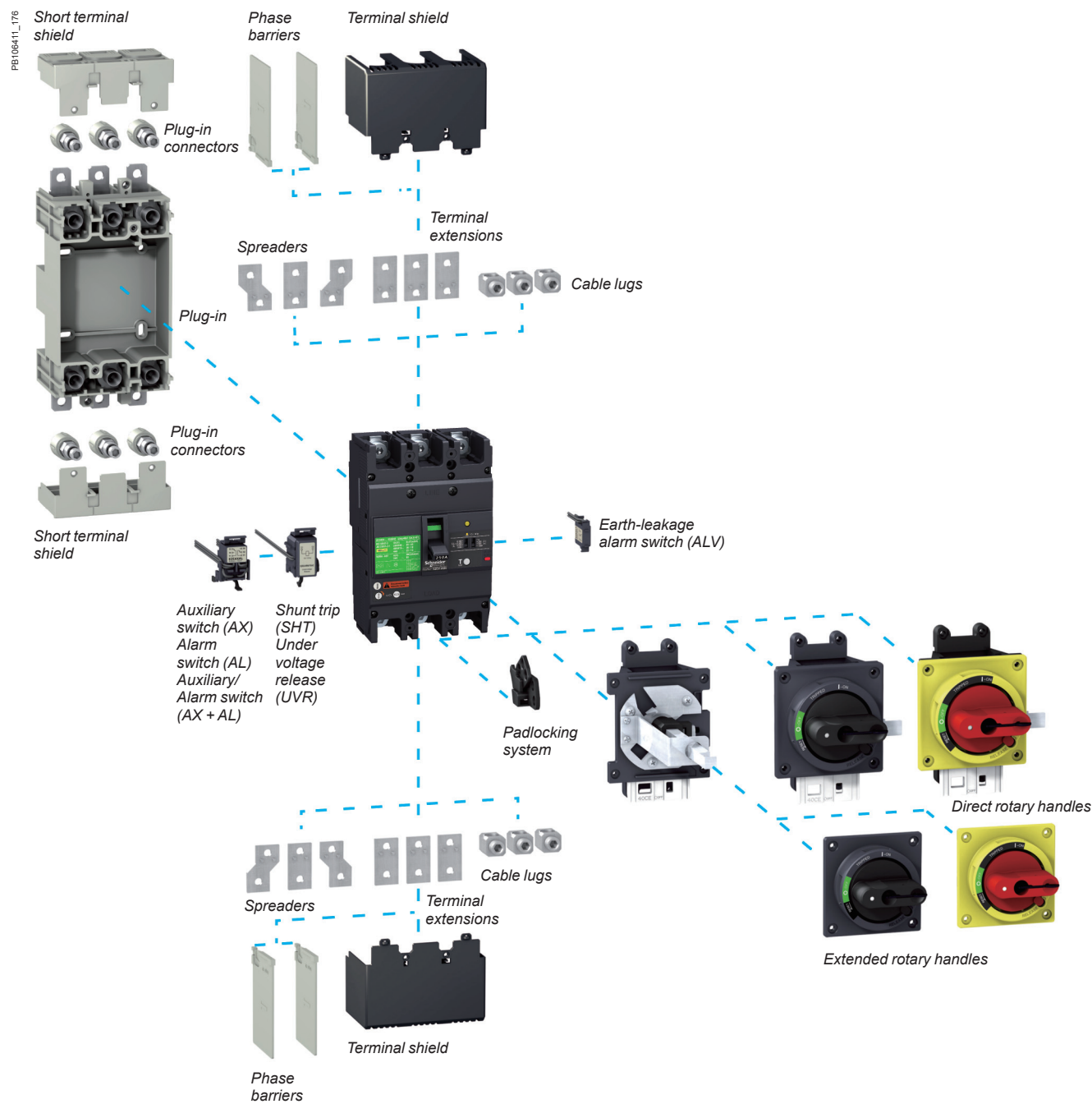


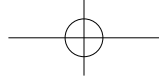


# Electrical and mechanical accessories overview

## EasyPact EZCV250

EasyPact EZC circuit breaker EZCV250 comes with a full range of accessories to fulfill different application requirements and make it easy for the end-user.

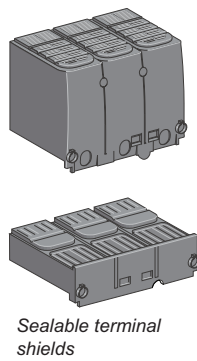




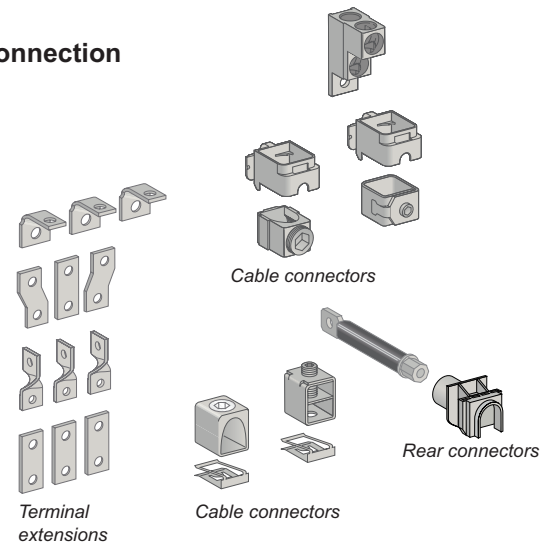
## EasyPact EZC400-630

EasyPact EZC circuit breaker EZC400-630 comes with a full range of accessories to fulfill different application requirements and make it easy for the end-user.

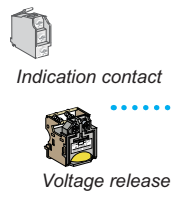
### Insulation accessories



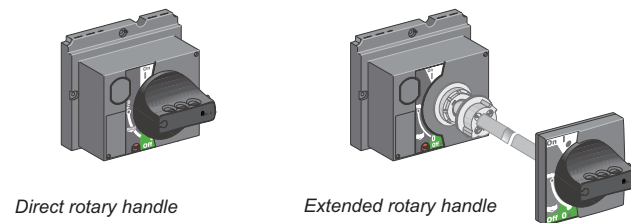
### Connection



### Electrical auxiliaries



### Control accessories



# Electrical auxiliaries

## 100-250AF

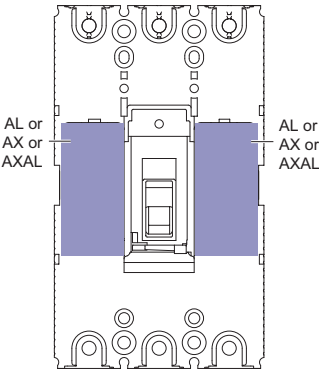
### AX - AL - AXAL - ALV

CPB100012



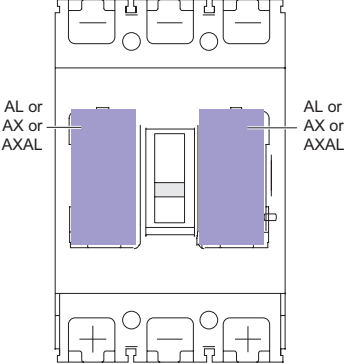
EZC100.

CD8500603



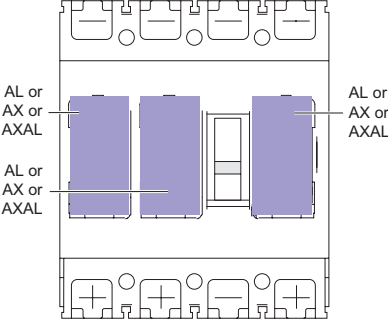
AXAL and AX electrical auxiliaries on EZC100.

CD8500604



AXAL electrical auxiliaries on EZC250.

CD8500605



AXAL, AX and ALV electrical auxiliaries on EZCV250.

### Plug-in location: AX - AL - AXAL - ALV

#### EZC100

DB116832



EZC100-2P.



EZC100-3P.

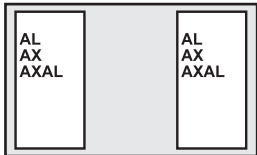
DB116833



EZC100-4P.

#### EZC250

DB116834



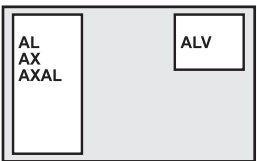
EZC250-3P.



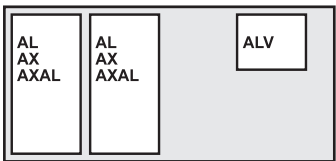
EZC250-4P.

#### EZCV250

DB116835



EZCV250-3P.



EZCV250-4P.

### Indication contacts

Provide remote circuit breaker status information.  
They can be used for indications, electrical locking, relaying, etc.  
Common-point changeover contacts.

#### Auxiliary switch (ON/OFF)

AX indicates the position of the circuit breaker contacts.

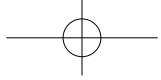
#### Alarm switch (trip indication)

- AL indicates that the circuit breaker has tripped due to:
  - an overload
  - a short-circuit
  - operation of a voltage release.
- ALV indicates that the circuit breaker has tripped due to an of earth-leakage fault.

They return to de-energised state when the circuit breaker is reset.

### Characteristics

| Contacts                             |                         |      |      |      |
|--------------------------------------|-------------------------|------|------|------|
| Rated thermal current (A)            | 5                       |      |      |      |
| Minimum load                         | 10 mA at 24 V           |      |      |      |
| Utilisation category (IEC 60947-5-1) | AC12                    | AC15 | DC12 | DC14 |
| Operational current (A)              | 24 V                    | 5    | 5    | 4    |
|                                      | 48 V                    | 5    | 5    | 2.5  |
|                                      | 125 V                   | 5    | 3    | 0.4  |
|                                      | 250 V                   | 3    | 2    | 0.2  |
| Connections                          |                         |      |      |      |
| Connection wire length               | 450 mm                  |      |      |      |
| Cross-section                        | EZC100: 1 mm²,          |      |      |      |
|                                      | EZC250/EZCV250: 1.5 mm² |      |      |      |



PE101862-21



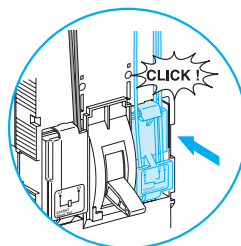
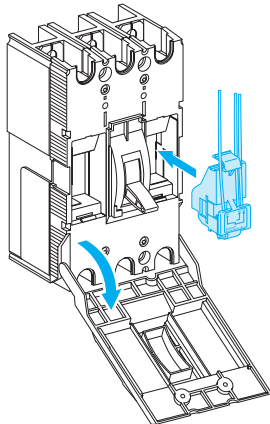
Auxiliary switch (AX)  
EZAUX10.

PE101876-21

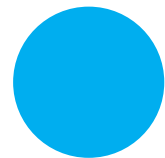


Auxiliary switch (AX)  
EZEAX.

DE116386



All EasyPact EZC  
electrical auxiliares  
are “snapped in place”



PS101893-26



Earth-leakage alarm switch  
(ALV).

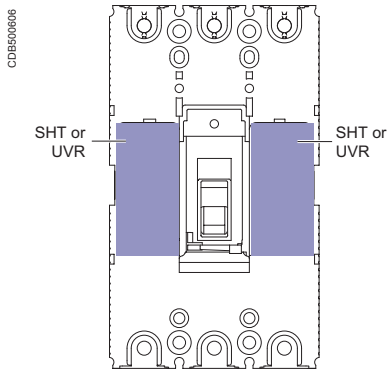
# Electrical auxiliaries

## 100-250AF

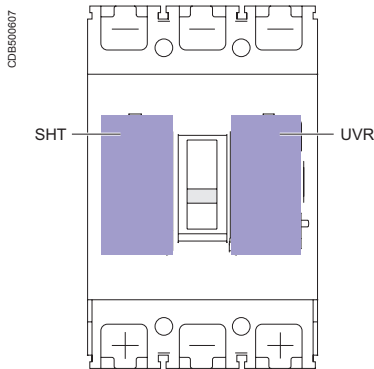
### SHT - UVR - UVRN



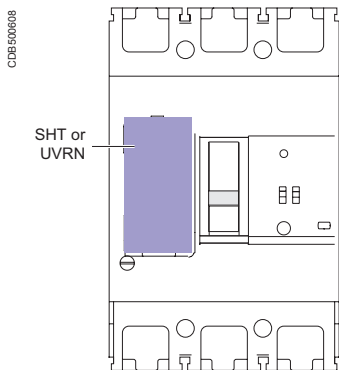
EZC250.



SHT and UVR releases on EZC100.



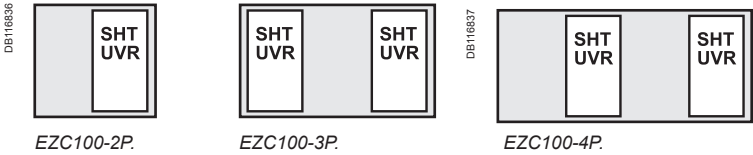
SHT and UVR releases on EZC250.



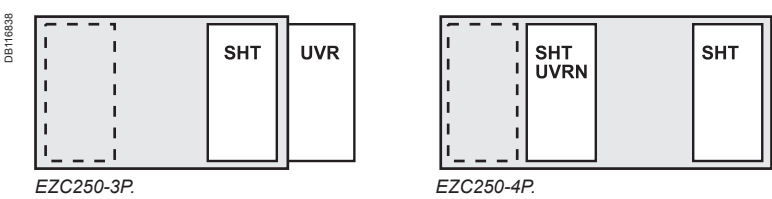
UVRN release on EZCV250.

#### Plug-in location : SHT - UVR - UVRN

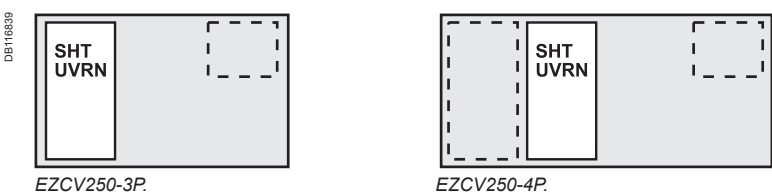
##### EZC100



##### EZC250



##### EZCV250



#### Remote tripping

Shunt Trip (SHT) or Under Voltage Release (UVR/UVRN).

##### Shunt Trip (SHT)

- This release trips the circuit breaker when the control voltage rises above  $0.7 \times U_n$
- Control signals can be of the impulse type ( $\geq 20$  ms) or maintained.

##### Under Voltage Release (UVR/UVRN)

- This release trips the circuit breaker when the control voltage drops below a tripping threshold
- Tripping threshold between 0.35 and 0.7 times the rated voltage
- Circuit breaker closing is possible only if the voltage exceeds 0.85 times the rated voltage.

##### Operation

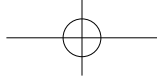
When the circuit breaker has been tripped by an SHT or UVR/UVRN release, it must be reset locally:

- SHT or UVR/UVRN tripping takes priority over manual closing
- in the presence of a standing trip order, closing of the contacts, even temporary, is not possible.

Circuit breaker tripping by an SHT/UVR/UVRN release meets the requirements of standard IEC 60947-2.

#### Characteristics

| Mechanical           |                     |                                   |                                  |
|----------------------|---------------------|-----------------------------------|----------------------------------|
| Mechanical endurance |                     | 10 % of MCCB mechanical endurance |                                  |
| Electrical           |                     | EZC100                            | EZC250/EZCV250                   |
|                      |                     | AC/DC                             | AC DC                            |
| SHT                  | pick-up consumption | < 30 VA                           | < 30 VA                          |
|                      | response time       | < 50 ms                           | < 100 ms                         |
| UVR                  | seal-in consumption | < 5 VA                            | < 5 VA                           |
|                      | response time       | < 50 ms                           | < 100 ms                         |
| UVRN                 | seal-in consumption | < 5 VA                            | < 5 VA                           |
|                      | response time       | < 50 ms                           | < 100 ms                         |
| Connections          |                     | EZC100                            | EZC250/EZCV250                   |
| SHT                  |                     | pre-wired (1 mm <sup>2</sup> )    | pre-wired (0.5 mm <sup>2</sup> ) |
| UVR                  |                     | pre-wired (1 mm <sup>2</sup> )    | screws (< 2 mm <sup>2</sup> )    |
| UVRN                 |                     | pre-wired (1 mm <sup>2</sup> )    | pre-wired (0.5 mm <sup>2</sup> ) |



PB101865-16



Shunt Trip EZASHT.

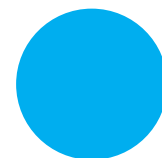
PB101879-18



Shunt Trip EZESHT.

#### Installation

- Ezc100 SHT and UVR: internal mounting
- Ezc250/EzcV250:
  - SHT: internal mounting
  - UVR: external mounting
  - UVRN: internal mounting



PB101866-18



Under Voltage Release  
EZAUVR.

PB101884-27



Under Voltage Release  
EZEUVRN.

PB101860-15



Under Voltage Release  
EZEUVR.



# Direct rotary handle 100-250AF

PD101867-31



Direct rotary handle (black) for EZC100.

PD102156-30



Direct rotary handle (red/yellow) for EZC100.

PD101861-33



Direct rotary handle (black) for EZC250/EZCV250.

PD102157-33



Direct rotary handle (red/yellow) for EZC250/EZCV250.

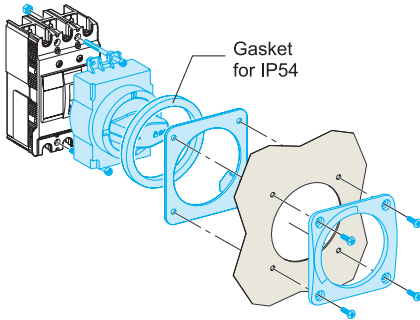
## Direct rotary handle

Suitable for Motor Control Centre (MCC) switchboards.

- Degree of protection IP40 or IP54, IK07 (IP54 with gasket supplied).
- The direct rotary handle maintains:
  - suitability for isolation
  - indication of the three positions O (OFF), I (ON) and tripped
  - circuit breaker locking capability in the OFF position by one to three padlocks, (padlock not supplied) shackle diameter Ø 5 for EZC100, Ø 8 for EZC250/EZCV250
  - door opening disabled when the circuit breaker is ON
  - circuit breaker closing is disabled if the door is open.

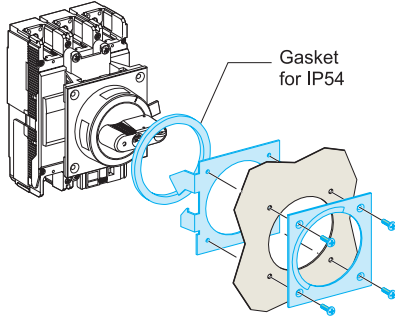
### IP40 or IP54

DB116337



EZC100.

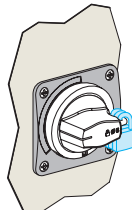
DB116388



EZC250/EZCV250.

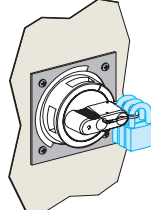
### Padlocking

DB116389



EZC100.

DB116390



EZC250/EZCV250.

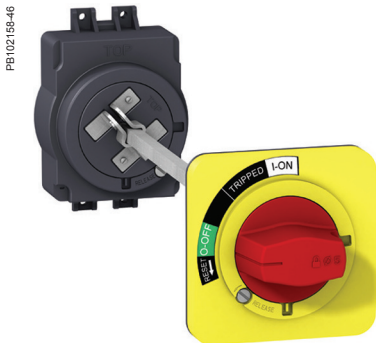
| Designation                       | Cat. no.   |                |
|-----------------------------------|------------|----------------|
|                                   | EZC100     | EZC250/EZCV250 |
| Direct rotary handle (black)      | EZAROTDS   | EZEROTDS       |
| Direct rotary handle (red/yellow) | EZAROTDSRY | EZEROTDSRY     |



# Extended rotary handle 100-250AF



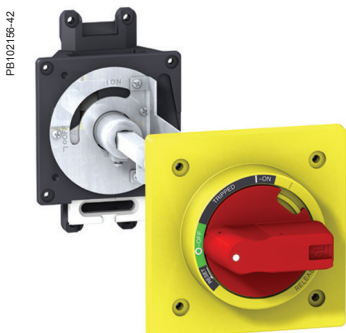
Extended rotary handle (black) for EZC100.



Extended rotary handle (red/yellow) for EZC100.



Extended rotary handle (black) for EZC250/EZCV250.



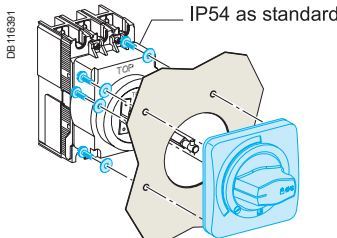
Extended rotary handle (red/yellow) for EZC250/EZCV250.

## Extended rotary handle

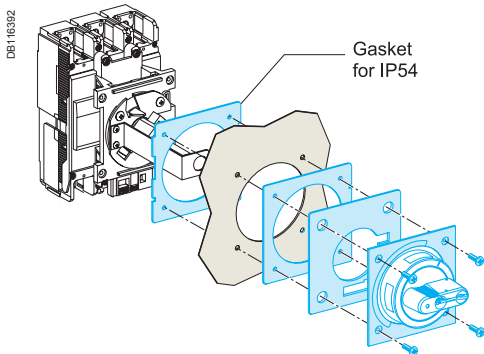
The extended rotary handle is used to control, from the front face of the switchboard, a device installed at the back of the switchboard.

- Degree of protection IP40 or IP54, IK08 (IP54 with gasket supplied).
- The extended rotary handle maintains:
  - suitability for isolation
  - indication of the three positions O (OFF), I (ON) and tripped
  - circuit breaker locking capability in the OFF position by one to three padlocks, (padlock not supplied) shackle diameter: Ø 5 for EZC100, Ø 8 for EZC250/EZCV250
  - door opening disabled when the circuit breaker is ON.
- The extended rotary handle is made up of:
  - a unit on the front cover of the circuit breaker (secured by screws)
  - an assembly (handle and front plate) on the door that is always secured in the same position, whether the circuit breaker is installed vertically or horizontally
  - an extension shaft that must be adjusted to the distance between back of circuit breaker and door.

### IP40 or IP54

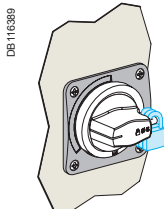


EZC100.

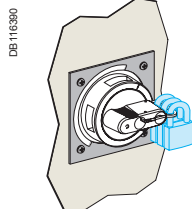


EZC250/EZCV250.

### Padlocking



EZC100.



EZC250/EZCV250.

| Designation                         | Cat. no.  |                |
|-------------------------------------|-----------|----------------|
|                                     | EZC100    | EZC250/EZCV250 |
| Extended rotary handle (black)      | EZAROTE   | EZEROTE        |
| Extended rotary handle (red/yellow) | EZAROTERY | EZEROTERY      |

Functions  
and characteristics

Plug-in  
100 A

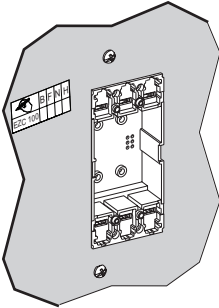
The plug-in allows you to connect, disconnect from the circuit breaker rapidly.



Plug-in

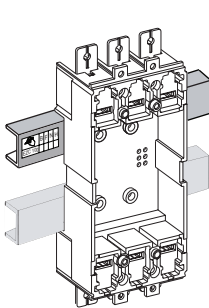
The plug-in base is equipped with terminals which, depending on their orientation, serve for front and rear connection. Degree of protection IP20.

DB127455



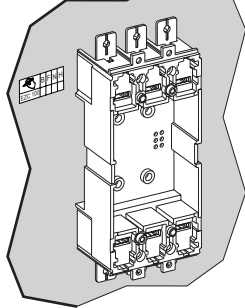
Front connection.

DB127456



Fixation on rail DIN.

DB127457

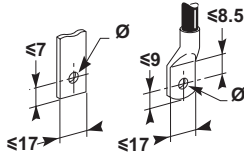
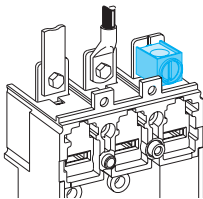


Fixation on rear plate.

Connection accessories

All accessories for fixed devices (bars, lugs) may be used with the plug-in base.

DB127458



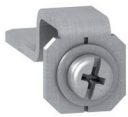
Tightening torque

References Plug-in

100 A

|                      |                                 |
|----------------------|---------------------------------|
| EZAPLUG3L            | Kit, plug-in base 3P 15 A-50 A  |
| EZAPLUG3H            | Kit, plug-in base 3P 60 A-100 A |
| EZAFSHB3 - set of 3  | Fishbone connectors             |
| EZAPCON1L - set of 2 | Plug-in connectors 15 A-50 A    |
| EZAPCON1H            | Plug-in connectors 60 A-100 A   |

PB106398-30



PB106398-33



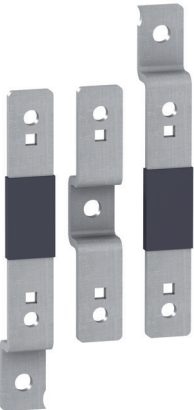
EZAPCON1L



EZAPCON1H



PB106397-27



EZAFSHB3

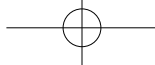
CPB100609



Fishbone.

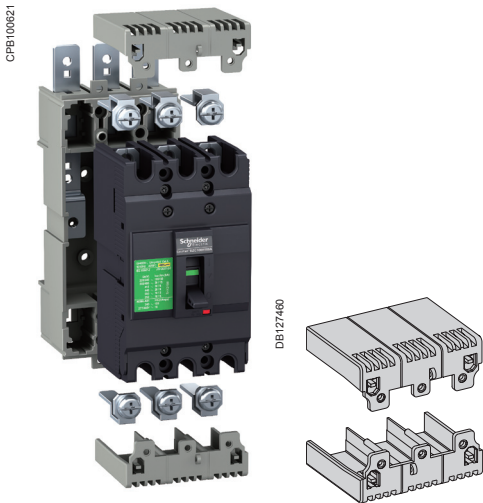
Fishbone

The fishbone, designed for vertical installation, saves space and reduces cabling time.



# Insulation of live parts

Short terminal shield only.



## Terminal shields

Insulating accessories used for protection against direct contact with power circuits. They provide IP40 degree of protection and IK07 mechanical impact protection.

### Terminal-shield types

Easypact EZC 100 to 250:

- short terminal shields

### Short terminal shields

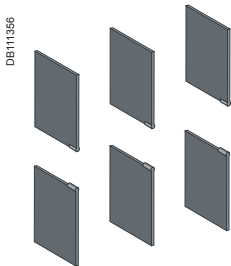
They are used with:

- plug-in in all connection configurations
- fixed versions with rear connection.

### Terminal shields and pitch

Combination possibilities are shown below.

| Circuit breaker Easypact EZC | 100/160/250 |
|------------------------------|-------------|
| Pitch (mm)                   | 35          |



## Interphase barriers

Safety accessories for maximum insulation at the power-connection points:

- they clip easily onto the circuit breaker
- single version for fixed devices and adapters on plug-in bases
- not compatible with terminal shields
- the adapter for the plug-in base is required for mounting on plug-in and withdrawable versions.

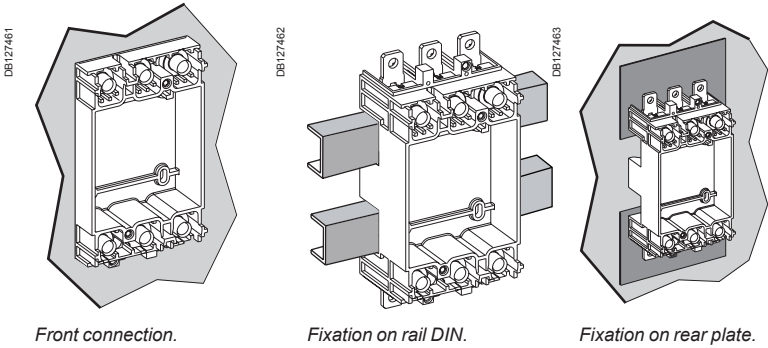
Functions  
and characteristics

Plug-in  
250 A

The plug-in allows you to connect, disconnect from the circuit breaker rapidly.

Plug-in

The plug-in base is equipped with terminals which, depending on their orientation, serve for front and rear connection. Degree of protection IP20.



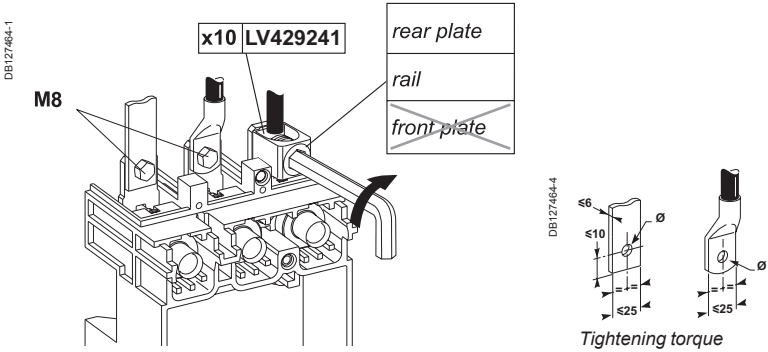
Front connection.

Fixation on rail DIN.

Fixation on rear plate.

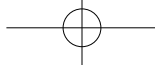
Connection accessories

All accessories for fixed devices (bars, lugs).



EZEPCON1

| References Plug-in        | 250 A                                 |
|---------------------------|---------------------------------------|
| EZEPLUG3L - 60 mm breaker | Kit, plug-in base 3P 100 A - 250 A    |
| EZEPLUG3H - 68 mm breaker | Kit, plug-in base 3P 100 A - 250 A    |
| EZEPLUG4 - 68 mm breaker  | Kit, plug-in base 4P 100 A - 250 A    |
| EZEPCON1 - set of 2       | Kit, plug-in connectors 100 A - 250 A |



# Insulation of live parts

## Short terminal shield only



## Terminal shields

Insulating accessories used for protection against direct contact with power circuits. They provide IP40 degree of protection and IK07 mechanical impact protection.

### Terminal-shield types

Easypact Ezc 100 to 250:

- short terminal shields.

### Short terminal shields

They are used with:

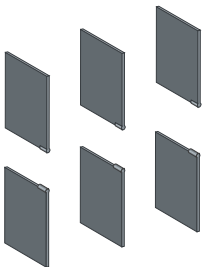
- plug-in in all connection configurations
- fixed versions with rear connection.

### Terminal shields and pitch

Combination possibilities are shown below.

| Circuit breaker Easypact | 100/160/250 |
|--------------------------|-------------|
| Short terminal shields   |             |
| Pitch (mm)               | 35          |

DB111366



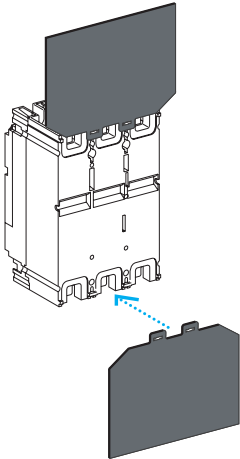
Interphase barriers.

## Interphase barriers

Safety accessories for maximum insulation at the power-connection points:

- they clip easily onto the circuit breaker
- single version for fixed devices and adapters on plug-in bases
- not compatible with terminal shields
- the adapter for the plug-in base is required for mounting on plug-in and withdrawable versions.

DB127466



Rear insulating screens.

## Rear insulating screens

Safety accessories providing insulation at the rear of the device.

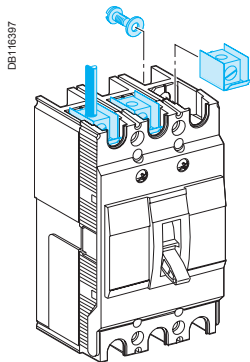
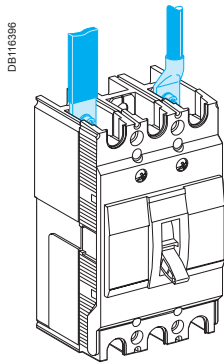
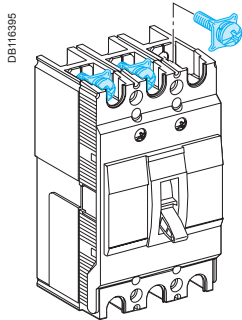
Their use is mandatory for devices with spreaders, installed on backplates, when terminal shields are not used.

The available screen dimensions are shown below.

| Circuit breaker Easypact |                        | 100/160/250   |
|--------------------------|------------------------|---------------|
| 3P                       | W x H x thickness (mm) | 140 x 105 x 1 |
| 4P                       | W x H x thickness (mm) | 175 x 105 x 1 |



# Power connections and cable lugs 100-250AF

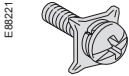


## Standard circuit breaker terminals

All EasyPact Ezc circuit breakers are supplied with terminal screws

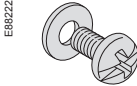
Ezc100 15 to 50 A

Screw M5



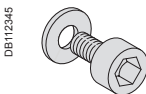
Ezc100 60 to 100 A

Screw M8

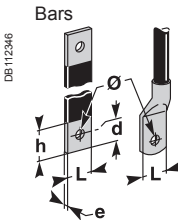


Ezc250/EzcV250 63 to 250 A

Screw M8



## Connection of insulated bars or cables with lugs



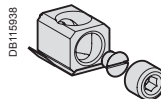
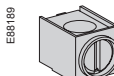
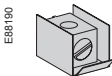
|        | Ezc100 | Ezc250/<br>EzcV250 |
|--------|--------|--------------------|
| Bars   |        |                    |
| L (mm) | ≤ 17   | ≤ 25               |
| h (mm) | d + 10 | d + 10             |
| d (mm) | ≤ 7    | ≤ 8                |
| e (mm) | ≤ 6    | ≤ 6                |
| Ø (mm) | ≤ 50 A | 5.5                |
|        | > 50 A | 8.5                |

|                   |        |         |        |
|-------------------|--------|---------|--------|
| Crimp lugs        | L (mm) | ≤ 17    | ≤ 25   |
|                   | d (mm) | ≤ 9     | ≤ 8    |
|                   | Ø (mm) | ≤ 50 A  | 5.5    |
|                   |        | > 50 A  | 8.5    |
| Tightening torque | ≤ 50 A | 2 N.m   | -      |
|                   | > 50 A | 5.5 N.m | 13 N.m |

## Cable lugs

Cable lugs directly screwed on standard circuit breaker terminals.

≤ 50 A (Ezc100) > 50 A (Ezc100) ≥ 100 A (Ezc250/EzcV250)



Cables from 2.5 to 16 mm².

Cables from 10 to 50 mm².

Cables from 42.2 to 150 mm².

| Designation                                 | Cat. no.                  |                |
|---------------------------------------------|---------------------------|----------------|
|                                             | Ezc100                    | Ezc250/EzcV250 |
| Cable lug up to 50 A (set of 2)             | EZALUG0502 <sup>(1)</sup> | -              |
| Cable lug up to 50 A (set of 3)             | EZALUG0503 <sup>(1)</sup> | -              |
| Cable lug from 60 A up to 100 A (set of 2)  | EZALUG1002 <sup>(2)</sup> | -              |
| Cable lug from 60 A up to 100 A (set of 3)  | EZALUG1003 <sup>(2)</sup> | -              |
| Cable lug from 100 A up to 250 A (set of 3) | -                         | EZELUG2503     |
| Cable lug from 100 A up to 250 A (set of 4) | -                         | EZELUG2504     |

### Important:

- (1) EZALUG0502 and EZALUG0503 can be use with maximum rating of 50 A.
- (2) EZALUG1002 and EZALUG1003 can be use with maximum rating of 100 A.





# Power connections and insulation of live parts

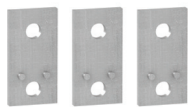
## 100-250AF

PB101856-32



Spreader.

PB101873-25



Terminal extensions.

PB101861-23



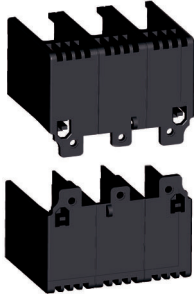
Phase barriers for EVC100.

PB101875-15



Phase barriers for EVC250/  
EVCV250.

PB104906



Terminal shield for EVC100.

PB101874-35



Terminal shield  
for EVC250/EVCV250.

### Spreaders

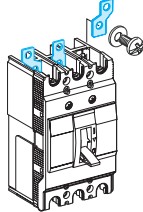
Increase the pitch of the circuit breaker terminals:

- EVC100 from 25 mm to 35 mm
- EVC250/EVCV250 from 35 mm to 45 mm.

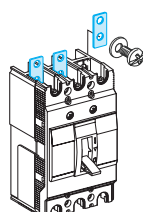
### Terminal extensions

Additional terminal extensions are available for EVC250/EVCV250 at 35 mm pitch.

DB116398



DB116399

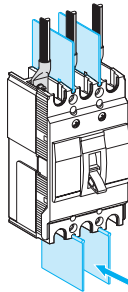


| Designation                                      | Cat. no.  |                |
|--------------------------------------------------|-----------|----------------|
|                                                  | EVC100    | EVC250/EVCV250 |
| Spreaders for 3-pole breaker (set of 3)          | EZASPDR3P | EZESPDR3P      |
| Spreaders for 4-pole breaker (set of 4)          | EZASPDR4P | EZESPDR4P      |
| Terminal extension for 3-pole breaker (set of 3) | -         | EZETEX         |
| Terminal extension for 4-pole breaker (set of 4) | -         | EZETEX4P       |

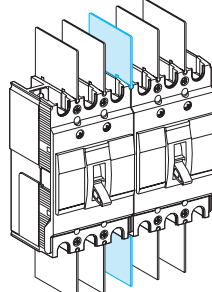
### Phase barriers

- Safety accessories for maximum insulation at the power connection points.
- Usable with all other connection accessories, except terminal shields.
- Each breaker is delivered with a set of phase barriers (1 for 2 poles, 2 for 3 poles and 3 for 4 poles breaker).
- Additional set of phase barriers available for insulation between outgoing or between 2 side by side mounted breakers.

DB116400



DB116401

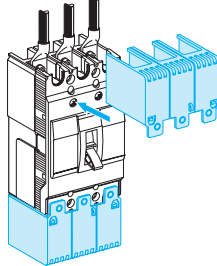


| Designation                               | Cat. no. |                |
|-------------------------------------------|----------|----------------|
|                                           | EVC100   | EVC250/EVCV250 |
| Phase barriers for 60 mm depth (set of 2) | EZAFASB2 | EZEAFASB2      |
| Phase barriers for 68 mm depth (set of 3) | -        | EZEAFASB3N     |

### Terminal shields

- Insulating accessory used for protection against direct contacts with power circuit connections. It provides a degree of protection of IP20 and a mechanical resistance of IK07.
- The long terminal shield is used with front cable or isolated busbar connections.
- Designed for 3-pole EVC100, 3, 4-pole EVC250/EVCV250.

DB442709



| Designation                                | Cat. no.  |                |
|--------------------------------------------|-----------|----------------|
|                                            | EVC100    | EVC250/EVCV250 |
| Terminal shield 3P, 60 mm depth (set of 2) | EZATSHD3P | EZETSHD3P      |
| Terminal shield 3P, 68 mm depth (set of 2) | -         | EZETSHD3PN     |
| Terminal shield 4P, 60 mm depth (set of 2) | EZATSHD4P | -              |
| Terminal shield 4P, 68 mm depth (set of 2) | -         | EZETSHD4PN     |

# DIN rail adaptor, padlocking, sealing screws 100-250AF



Padlocking device for  
EZC100.



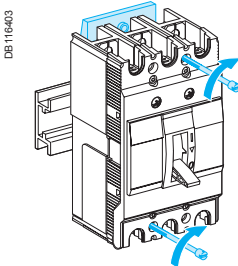
Padlocking device for  
EZC250/EZCV250.

## DIN rail adaptor

Breaker mounting on a DIN rail is possible by using special adaptor (EZC100 only).

Number of adaptators:

- one for two 1P, or one 2P or one 3P
- two for one 4P.



Mounting on DIN rail (optional).

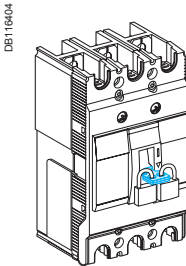
| Designation      | Cat. no. |                |
|------------------|----------|----------------|
|                  | EZC100   | EZC250/EZCV250 |
| Din rail adaptor | EZADINR  | -              |

## Padlocking system

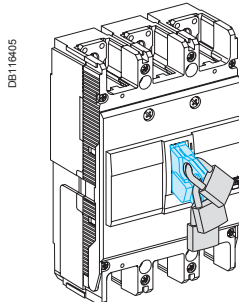
Locking in the OFF position guarantees isolation as per IEC 60947-2.

Padlocking system can receive:

- up to 2 padlocks Ø 5 mm (padlocks not supplied) for EZC100
- up to 3 padlocks Ø 8 mm for EZC250/EZCV250 (padlocks not supplied).

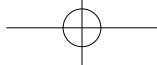


Toggle locking using a removable device:  
for EZC100



for EZC250/EZCV250

| Designation                                         | Cat. no. |                |
|-----------------------------------------------------|----------|----------------|
|                                                     | EZC100   | EZC250/EZCV250 |
| Padlocking system                                   | EZALOCK  | -              |
| Padlocking system for EZC250-3P                     | -        | EZELOCK        |
| Padlocking system for EZC250-4P and<br>EZCV250-3/4P | -        | EZELOCKN       |



Functions  
and characteristics

Accessories and auxiliaries of  
EZX400-630  
Connection of devices

Fixed circuit breakers are designed for standard front connection using bars or cables with lugs. Cable connectors are available for bare cables. Rear connection is also possible.

Front connection

Bars or cables with lugs

Standard terminals

EasyPact EZX400 to 630 come with terminals comprising snap-in nuts with screws:

- EasyPact EZX400/630: M10 nuts and screws.

These terminals may be used for:

- direct connection of insulated bars or cables with lugs
- terminal extensions.

Interphase barriers or terminal shields are recommended. They are mandatory for certain connection accessories (in which case the interphase barriers are provided).

Bars

When the switchboard configuration has not been tested, insulated bars are mandatory.

Maximum size of bars

| EasyPact EZX circuit breaker | 400/630               |
|------------------------------|-----------------------|
| Without spreaders            | pitch (mm)            |
|                              | maximum bar size (mm) |
| With spreaders               | pitch (mm)            |
|                              | maximum bar size (mm) |

Crimp lugs

There are two modules of lugs, for aluminium and copper cables.

Interphase barriers or long terminal shields must be used with narrow lugs. The lugs are supplied with interphase barriers.

| EasyPact EZX circuit breaker | 400/630    |
|------------------------------|------------|
| Copper cables                | size (mm²) |
|                              | crimping   |
| Aluminium cables             | size (mm²) |
|                              | crimping   |

Terminal extensions

Extensions with anti-rotation ribs can be attached to the standard terminals to provide numerous connection possibilities in little space:

- straight terminal extensions
- right-angle terminal extensions

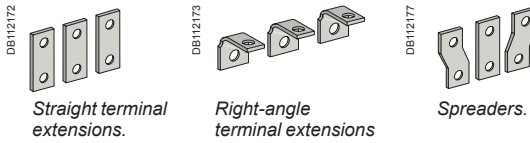
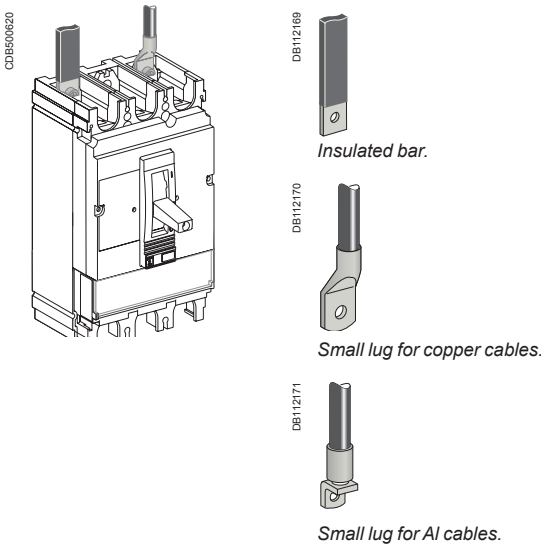
Spreaders

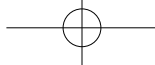
Spreaders may be used to increase the pitch:

- EZX400/630: the 45 mm pitch can be increased to 52 or 70 mm.
- Bars, cable lugs or cable connectors can be attached to the ends.

Pitch (mm) depending on the type of spreader

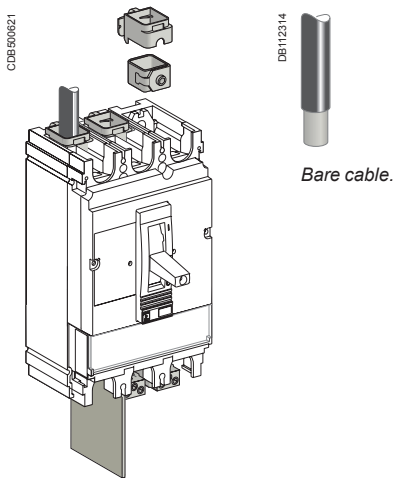
| EasyPact EZX circuit breaker | EZX400 to 630 |
|------------------------------|---------------|
| Without spreaders            | 45            |
| With spreaders               | 52.5 or 70    |





# Accessories and auxiliaries of EZC400-630

## Connection of devices



Bare cable.

### Bare cables

Bare-cable connectors may be used for both copper and aluminium cables.

#### 1-cable connectors for EasyPact EZC400 to 630

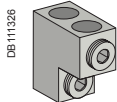
The connectors are screwed directly to the device terminals.

#### Maximum size of cables depending on the type of connector

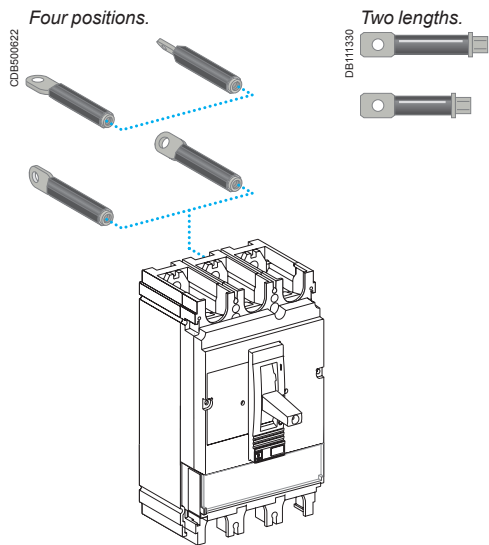
| EasyPact EZC circuit breaker | 400                                | 630 |
|------------------------------|------------------------------------|-----|
| Aluminium connectors         | 2 cables 35 to 240 mm <sup>2</sup> | ■   |
|                              | 35 to 300 mm <sup>2</sup>          | ■   |



1-cable  
connector for  
EZC400/630.



2-cable  
connector for  
EZC400/630.



### Rear connection

Device mounting on a backplate with suitable holes enables rear connection.

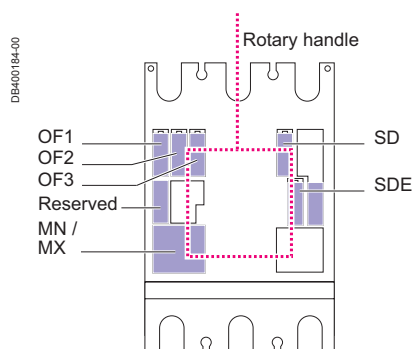
#### Bars or cables with lugs

Rear connections for bars or cables with lugs are available in two lengths. Bars may be positioned flat, on edge or at 45° angles depending on how the rear connections are positioned.

The rear connections are simply fitted to the device connection terminals. All combinations of rear connection lengths and positions are possible on a given device.

# Accessories and auxiliaries of EVC400-630

## Selection of auxiliaries



### EasyPact EVC400/630

#### Standard

All EasyPact EVC400/630 circuit breakers and switch-disconnectors have slots for the electrical auxiliaries listed below.

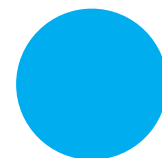
##### 5 indication contacts

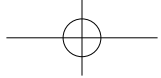
- 3 ON/OFF (OF3)
- 1 trip indication (SD)
- 1 fault-trip indication (SDE)

##### 1 remote-tripping release

- either 1 MN undervoltage release
- or 1 MX shunt release.

All these auxiliaries can be installed with a rotary handle.





# Accessories and auxiliaries of EZC400-630

## Indication contacts

One contact model provides circuit-breaker status indications (OF - SD - SDE).



Indication contacts.

These common-point changeover contacts provide remote circuit-breaker status information.

They can be used for indications, electrical locking, relaying, etc.  
They comply with the IEC 60947-5 international recommendation.

### Functions

#### Breaker-status indications, during normal operation or after a fault

A single type of contact provides all the different indication functions:

- OF (ON/OFF) indicates the position of the circuit breaker contacts
- SD (trip indication) indicates that the circuit breaker has tripped due to:
  - an overload
  - a short-circuit
  - an earth fault (Vigi)
  - operation of a voltage release
  - operation of the “push to trip” button
  - disconnection when the device is ON.

The SD contact returns to de-energised state when the circuit breaker is reset.

- SDE (fault-trip indication) indicates that the circuit breaker has tripped due to:
  - an overload
  - a short-circuit

### Installation

■ OF, SD, SDE functions: a single type of contact provides all these different indication functions, depending on where it is inserted in the device. The contacts clip into slots behind the front cover of the circuit breaker.

### Electrical characteristics of auxiliary contacts

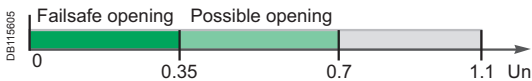
| Contacts                         |              | Standard          |      |      |      | Low level      |      |      |      |
|----------------------------------|--------------|-------------------|------|------|------|----------------|------|------|------|
| Types of contacts                |              | All               |      |      |      | OF, SD, SDE    |      |      |      |
| Rated thermal current (A)        |              | 6                 |      |      |      | 5              |      |      |      |
| Minimum load                     |              | 100 mA at 24 V DC |      |      |      | 1 mA at 4 V DC |      |      |      |
| Utilisation cat. (IEC 60947-5-1) |              | AC12              | AC15 | DC12 | DC14 | AC12           | AC15 | DC12 | DC14 |
| Operational current (A)          | 24 V AC/DC   | 6                 | 6    | 6    | 1    | 5              | 3    | 5    | 1    |
|                                  | 48 V AC/DC   | 6                 | 6    | 2.5  | 0.2  | 5              | 3    | 2.5  | 0.2  |
|                                  | 110 V AC/DC  | 6                 | 5    | 0.6  | 0.05 | 5              | 2.5  | 0.6  | 0.05 |
|                                  | 220/240 V AC | 6                 | 4    | -    | -    | 5              | 2    | -    | -    |
|                                  | 250 V DC     | -                 | -    | 0.3  | 0.03 | 5              | -    | 0.3  | 0.03 |
| 380/440 V AC                     |              | 6                 | 2    | -    | -    | 5              | 1.5  | -    | -    |

# Accessories and auxiliaries of EZC400-630

## Remote tripping



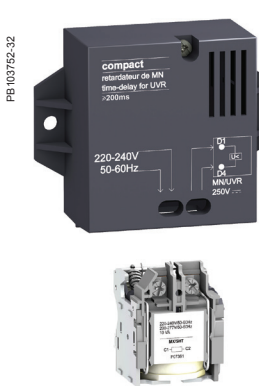
MX or MN voltage release.



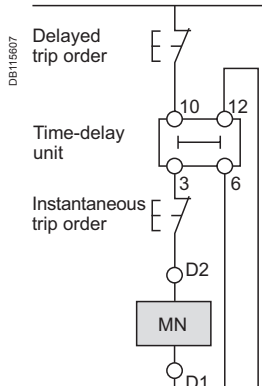
Opening conditions of the MN release.



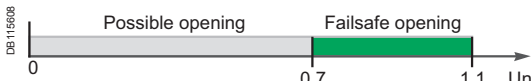
Closing conditions of the MN release.



MN release with a time-delay unit.



Wiring diagram for emergency-off function with MN + time-delay unit.



Opening conditions of the MX release.

### MN undervoltage release

- This release trips the circuit breaker when the control voltage drops below a tripping threshold
- The tripping threshold is between 0.35 and 0.7 times the rated voltage
- Circuit breaker closing is possible only if the voltage exceeds 0.85 times the rated voltage.

#### Characteristics

|                       |                     |                                       |
|-----------------------|---------------------|---------------------------------------|
| Power supply          | V AC                | 50/60 Hz: 24 - 48 - 100/130 - 200/240 |
|                       |                     | 50 Hz: 380/415 60 Hz: 208/277         |
|                       | V DC                | 12 - 24 - 30 - 48 - 60 - 125 -250     |
|                       | Operating threshold | Opening 0.35 to 0.7 Un                |
|                       | Closing             | 0.85 Un                               |
| Operating range       |                     | 0.85 to 1.1 Un                        |
| Consumption (VA or W) |                     | Pick-up: 10 - Hold: 5                 |
| Response time (ms)    |                     | 50                                    |

### Time-delay unit for an MN release

A time delay unit for the MN release eliminates the risk of nuisance tripping due to a transient voltage dip lasting  $\leq 200$  ms. For shorter micro-outages, a system of capacitors provides temporary supply to the MN at  $U > 0.7$  to ensure non tripping. The correspondence between MN releases and time-delay units is shown below.

| Power supply                                      | Corresponding MN release |
|---------------------------------------------------|--------------------------|
| Unit with fixed delay 200 ms                      |                          |
| 48 V AC                                           | 48 V DC                  |
| 220 / 240 V AC                                    | 250 V DC                 |
| Unit with adjustable delay (0.5s, 0.9s, 1.5s, 3s) |                          |
| 48 - 60 V AC/DC                                   | 48 V DC                  |
| 100 - 130 V AC/DC                                 | 125 V DC                 |
| 220 - 250 V AC/DC                                 | 250 V DC                 |

### MX shunt release

The MX release opens the circuit breaker via an impulse-type ( $\geq 20$  ms) or maintained order.

#### Opening conditions

When the MX release is supplied, it automatically opens the circuit breaker. Opening is ensured for a voltage  $U \geq 0.7 \times U_n$ .

#### Characteristics

|                       |                 |                                       |
|-----------------------|-----------------|---------------------------------------|
| Power supply          | V AC            | 50/60 Hz: 24 - 48 - 100/130 - 200/240 |
|                       |                 | 50 Hz: 380/415 60 Hz: 208/277         |
|                       | V DC            | 12 - 24 - 30 - 48 - 60 - 125 -250     |
|                       | Operating range | 0.7 to 1.1 Un                         |
| Consumption (VA or W) |                 | Pick-up: 10                           |
| Response time (ms)    |                 | 50                                    |

### Circuit breaker control by MN or MX

When the circuit breaker has been tripped by an MN or MX release, it must be reset before it can be reclosed.

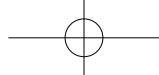
MN or MX tripping takes priority over manual closing.

In the presence of a standing trip order, closing of the contacts, even temporary, is not possible.

Connection using wires up to 1.5mm<sup>2</sup> to integrated terminal blocks.

**Note:** circuit breaker opening using an MN or MX release must be reserved for safety functions. This type of tripping increases wear on the opening mechanism. Repeated use reduces the mechanical endurance of the circuit breaker by 50 %.





# Accessories and auxiliaries of EZC400-630

## Rotary handles escutcheons and protection collars

There are two types of rotary handle:

- direct rotary handle
- extended rotary handle.



EasyPact EZC400 with a rotary handle.



EasyPact EZC400 with an extended rotary handle installed at the back of a switchboard, with the keylock option and key.



Escutcheons are an optional feature mounted on the switchboard door. They increase the degree of protection to IP40, IK07. Protection collars maintain the degree of protection, whatever the position of the device (connected, disconnected).

### Direct rotary handle

#### Standard handle

Degree of protection IP40, IK07.

The direct rotary handle maintains:

- visibility of and access to trip-unit settings
- suitability for isolation
- indication of the three positions O (OFF), I (ON) and tripped
- access to the "push to trip" button.

#### Device locking

The rotary handle facilitates circuit-breaker locking.

- Padlocking:
  - standard situation, in the OFF position, using 1 to 3 padlocks, shackle diameter 5 to 8 mm, not supplied

### Extended rotary handle

Degree of protection IP54, IK08.

The extended rotary handle makes it possible to operate circuit breakers installed at the back of switchboards, from the switchboard front.

It maintains:

- visibility of and access to trip-unit settings
- suitability for isolation
- indication of the three positions O (OFF), I (ON) and tripped.

#### Device and door padlocking

Padlocking locks the circuit-breaker handle and disables door opening:

- standard situation, in the OFF position, using 1 to 3 padlocks, shackle diameter 5 to 8 mm, not supplied

#### Parts of the extended rotary handles

- A unit that replaces the front cover of the circuit breaker (secured by screws).
- An assembly (handle and front plate) on the door that is always secured in the same position, whether the circuit breaker is installed vertically or horizontally.
- An extension shaft that must be adjusted to the distance. The min/max distance between the back of circuit breaker and door is:
  - 209...600 mm for EasyPact EZC 400/630.

### Manual source-changeover systems

An additional accessory interlocks two devices with rotary handles to create a source-changeover system. Closing of one device is possible only if the second is open.

This function is compatible with direct or extended rotary handles.

Up to three padlocks can be used to lock in the OFF or ON position.

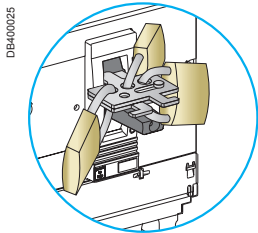
### IP40 escutcheons for fixed devices

There are three types of escutcheon with a gasket which are screwed to the door cut-out:

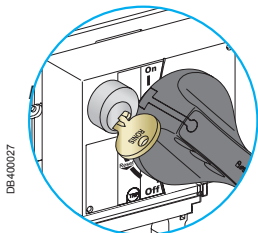
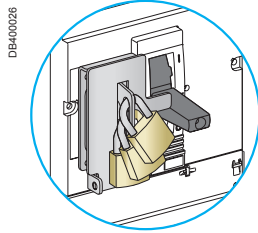
- three escutcheons for all control types (toggle, handle or motor mechanism)
- a wide model for Vigi modules that can be combined with the above.

# Accessories and auxiliaries of EZC400-630

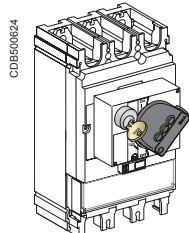
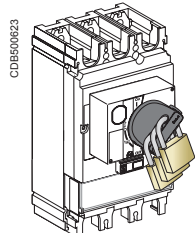
## Locks and sealing accessories



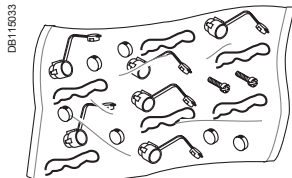
Toggle locking using padlocks and an accessory:  
Removable device



Rotary-handle locking using a keylock.



Rotary-handle locking using a padlock or a keylock.



Sealing accessories.

### Locks

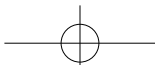
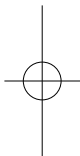
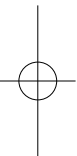
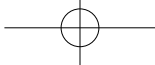
Locking in the OFF position guarantees isolation as per IEC 60947-2. Padlocking systems can receive up to three padlocks with shackle diameters ranging from 5 to 8 mm (padlocks not supplied). Certain locking systems require an additional accessory.

| Control device               | Function                                                                     | Means   | Required accessories     |
|------------------------------|------------------------------------------------------------------------------|---------|--------------------------|
| Toggle                       | Lock in OFF position                                                         | Padlock | Removable device         |
|                              | Lock in OFF or ON position                                                   | Padlock | Fixed device             |
| Direct rotaryStandard handle | Lock in OFF position                                                         | Padlock | -                        |
|                              | OFF or ON position <sup>(1)</sup>                                            | Keylock | Locking device + keylock |
| Extended rotary handle       | Lock in OFF position                                                         | Padlock | -                        |
|                              | OFF or ON position <sup>(1)</sup> with door opening prevented <sup>(2)</sup> |         |                          |
|                              | Lock in OFF position                                                         | Padlock | UL508 control accessory  |
|                              | OFF or ON position <sup>(1)</sup> inside the switchboard                     | Keylock | Locking device + keylock |

<sup>(1)</sup> Following a simple modification of the mechanism.  
<sup>(2)</sup> Unless door locking has been voluntarily disabled.

### Sealing accessories

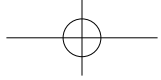
|                |  |
|----------------|--|
| Toggle control |  |
| Rotary handle  |  |





|                                                      |            |
|------------------------------------------------------|------------|
| <i>Presentation</i>                                  | <i>II</i>  |
| <i>Functions and characteristics</i>                 | <i>A-1</i> |
| <b>Introduction</b>                                  | <b>B-2</b> |
| <b>Busbars characteristics</b>                       | <b>B-4</b> |
| <b>Main busbars and extension</b>                    | <b>B-5</b> |
| <b>Accessories</b>                                   | <b>B-6</b> |
| <b>Dimensions</b>                                    |            |
| Busbar EZB250                                        | B-7        |
| Busbars EZB400/630                                   | B-8        |
| EasyPact EZC or Compact NSX branch extensions layout | B-9        |
| <i>Installation guide</i>                            | <i>C-1</i> |
| <i>Catalogue numbers</i>                             | <i>D-1</i> |

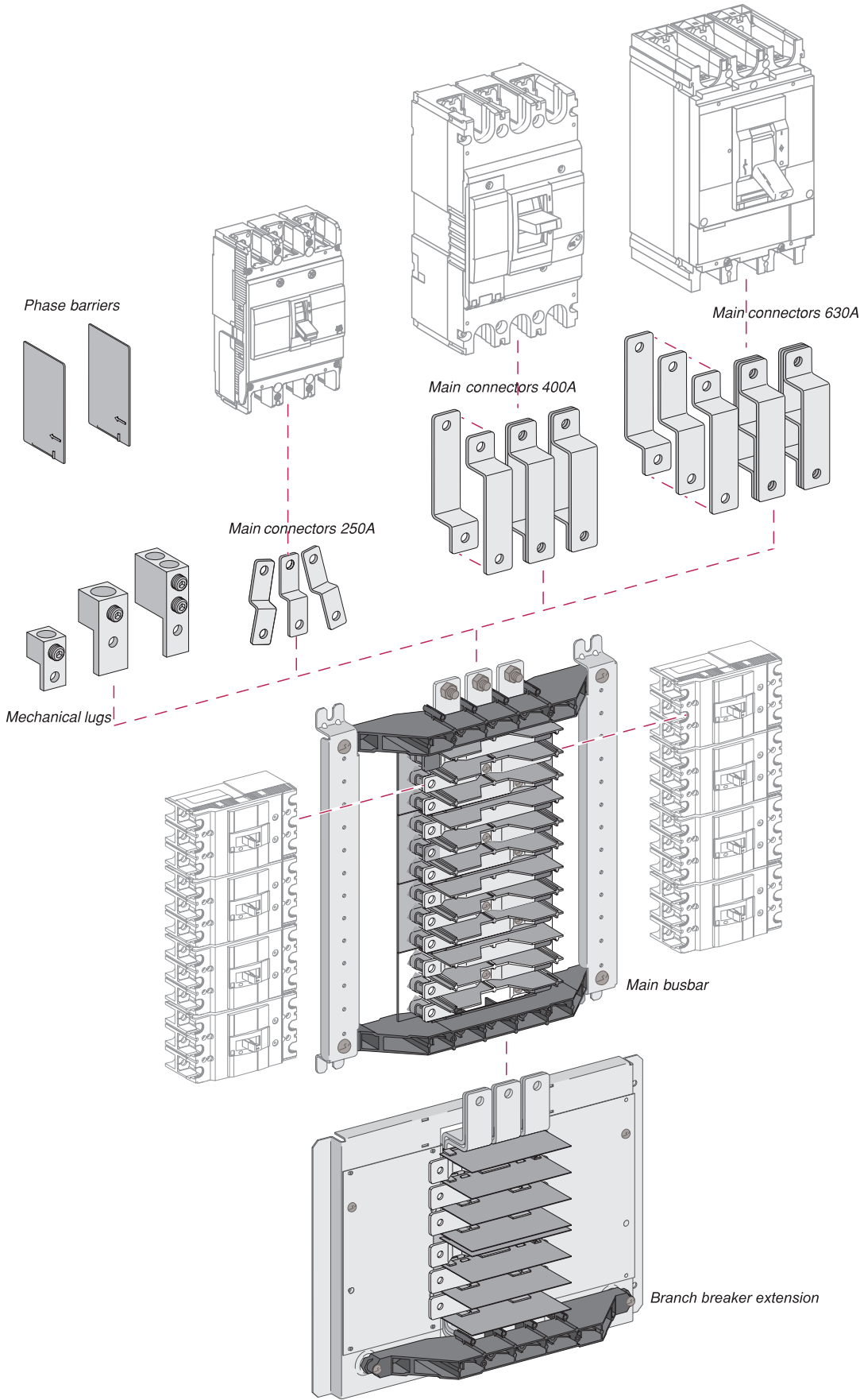


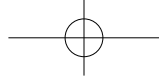


Busbars

Introduction

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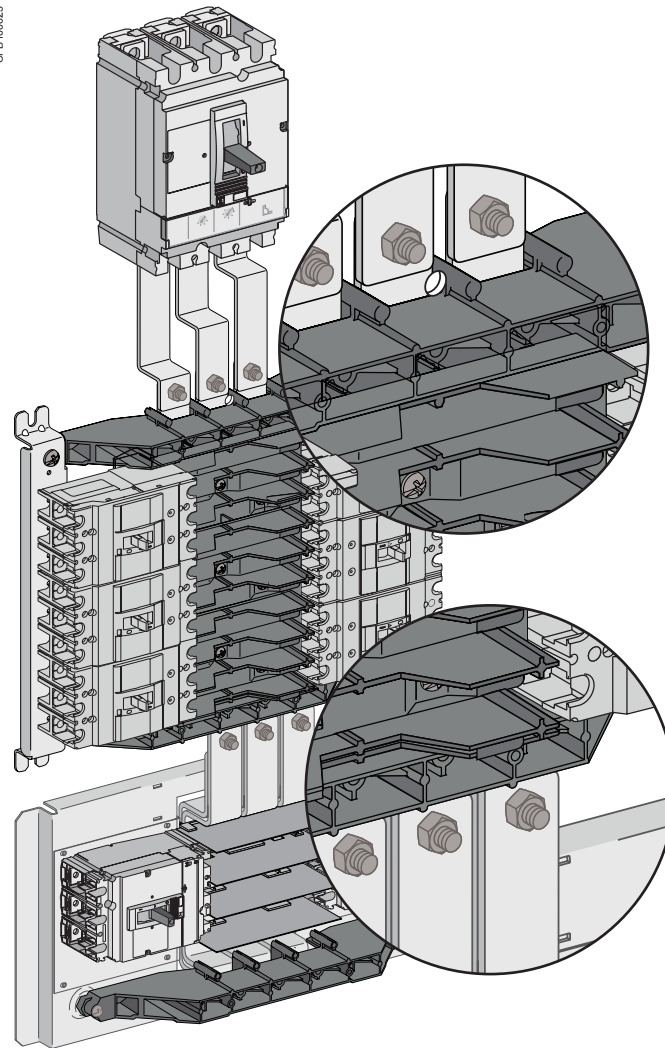




The EasyPact EZC Busbar - engineered and certified together with the EasyPact EZC MCCB to provide superior performance, flexibility and value. Simply the best solution for your distribution panel needs:

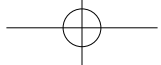
- available for 250 A, 400 A or 630 A main incoming current
- available for 4, 6, 8, 10 or 12 Ways (3 poles) EasyPact EZC 100 A (max.) outgoing MCCB's
- 400 A and 630 A systems can accept an additional 2 or 4 EasyPact EZC 250 or Compact NSX250 outgoing MCCB's
- designed and tested to meet IEC 60439-1 requirements
- completely assembled in ISO certified facility for easy installation into locally made enclosures.

CFB 100623



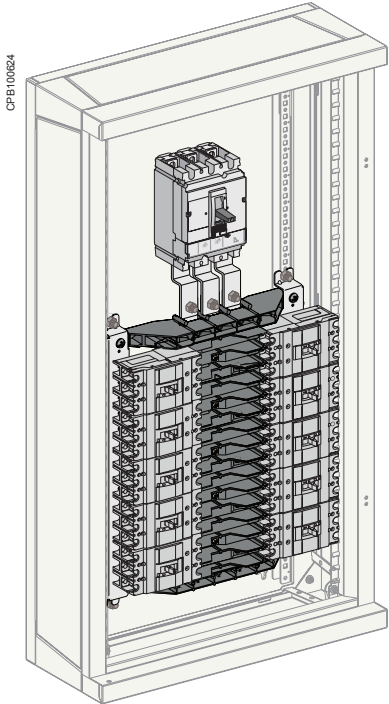
### Premium Materials make a premium busbar system

- Solid copper busbars and connectors for cool, care-free operation.
- Electro-tin plating on all busbars and connectors for corrosion resistance in all environments.
- Fiberglass reinforced nylon bus supports for strength and dimensional stability.
- Molded thermoplastic phase barriers to maintain alignment and ensure electrical isolation between phases.



# Busbars

# Busbars characteristics



Enclosed 10 ways Busbar 250 A with 250 A main incomer.

## Compliance with standards

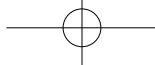
The EasyPact EZC Busbar System is designed and certified to meet all international requirements specified in IEC 60439-1 relating to construction of Low Voltage switchgear and controlgear assemblies, including:

- verification of temperature - rise limits
- verification of dielectric properties
- verification of short-circuit withstand strength
- verification of clearances and creepage distances.

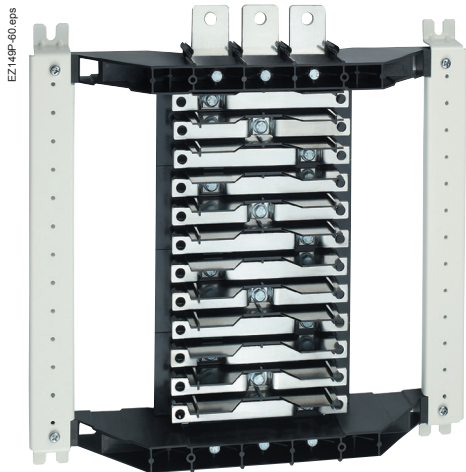
In addition, the system has been type-tested in ASTA labs to confirm the short-circuit and short-time withstand ratings.

| EasyPact EZC Busbar System                  |  |         | EZB250                                              |    |    |    |    | EZB400            |    |    |    |    | EZB630            |    |    |    |    |
|---------------------------------------------|--|---------|-----------------------------------------------------|----|----|----|----|-------------------|----|----|----|----|-------------------|----|----|----|----|
| Number of ways                              |  |         | 4                                                   | 6  | 8  | 10 | 12 | 4                 | 6  | 8  | 10 | 12 | 4                 | 6  | 8  | 10 | 12 |
| Numbers of outgoing (EasyPact EZC 100)      |  | 1P      | 12                                                  | 18 | 24 | 30 | 36 | 12                | 18 | 24 | 30 | 36 | 12                | 18 | 24 | 30 | 36 |
|                                             |  | 2P      | 6                                                   | 8  | 12 | 14 | 18 | 6                 | 8  | 12 | 14 | 18 | 6                 | 8  | 12 | 14 | 18 |
|                                             |  | 3P      | 4                                                   | 6  | 8  | 10 | 12 | 4                 | 6  | 8  | 10 | 12 | 4                 | 6  | 8  | 10 | 12 |
| Extension for EZ/NSX breakers               |  |         | No extension                                        |    |    |    |    | Yes (2 or 4 Ways) |    |    |    |    | Yes (2 or 4 Ways) |    |    |    |    |
| Electrical characteristics                  |  |         |                                                     |    |    |    |    |                   |    |    |    |    |                   |    |    |    |    |
| Rated incoming current (A)                  |  |         | 250                                                 |    |    |    |    | 400               |    |    |    |    | 630               |    |    |    |    |
| Rated operational voltage (V) AC 50/60 Hz   |  |         | 550                                                 |    |    |    |    | 550               |    |    |    |    | 550               |    |    |    |    |
| Rated insulation voltage (V)                |  |         | 690                                                 |    |    |    |    | 690               |    |    |    |    | 690               |    |    |    |    |
| Breaking capacity                           |  |         | Refer to cascading tables <a href="#">page C-18</a> |    |    |    |    |                   |    |    |    |    |                   |    |    |    |    |
| Rated short-time withstand current (kA rms) |  | 1 sec.  | 30                                                  |    |    |    |    | 40                |    |    |    |    | 40                |    |    |    |    |
| Dimensions                                  |  |         |                                                     |    |    |    |    |                   |    |    |    |    |                   |    |    |    |    |
| Dimensions H x W x D (mm)                   |  | 4 Ways  | 268.5 x 416 x 82.5                                  |    |    |    |    | 290 x 416 x 107   |    |    |    |    | 290 x 416 x 107   |    |    |    |    |
|                                             |  | 6 Ways  | 343.5 x 416 x 82.5                                  |    |    |    |    | 365 x 416 x 107   |    |    |    |    | 365 x 416 x 107   |    |    |    |    |
|                                             |  | 8 Ways  | 418.5 x 416 x 82.5                                  |    |    |    |    | 440 x 416 x 107   |    |    |    |    | 440 x 416 x 107   |    |    |    |    |
|                                             |  | 10 Ways | 493.5 x 416 x 82.5                                  |    |    |    |    | 515 x 416 x 107   |    |    |    |    | 515 x 416 x 107   |    |    |    |    |
|                                             |  | 12 Ways | 568.5 x 416 x 82.5                                  |    |    |    |    | 590 x 416 x 107   |    |    |    |    | 590 x 416 x 107   |    |    |    |    |





# Main busbars and extension

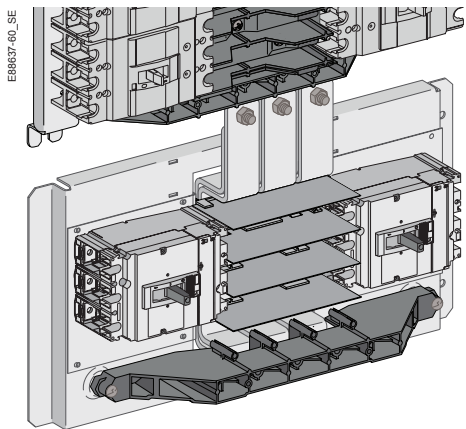
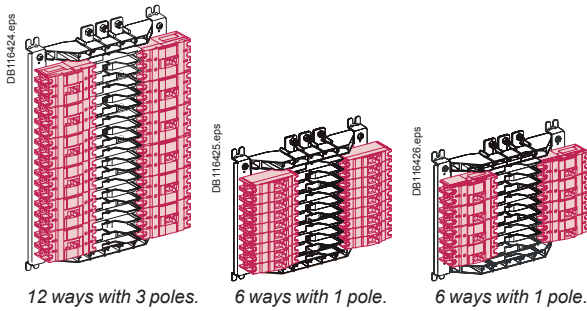
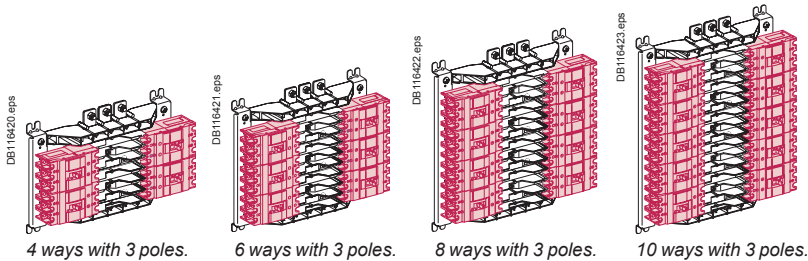


EasyPact EZC Busbar EZB250W08.

## Main busbar

The core of the EasyPact EZC Busbar System includes the main busbars and outgoing connectors for EasyPact EZC MCCB's.

| Designation                | Cat. no.  |           |           |
|----------------------------|-----------|-----------|-----------|
| Type                       | EZB250    | EZB 400   | EZB630    |
| Main busbar current rating | 250 A     | 400 A     | 630 A     |
| Number of ways             |           |           |           |
| 4 ways                     | EZB250W04 | EZB400W04 | EZB630W04 |
| 6 ways                     | EZB250W06 | EZB400W06 | EZB630W06 |
| 8 ways                     | EZB250W08 | EZB400W08 | EZB630W08 |
| 10 ways                    | EZB250W10 | EZB400W10 | EZB630W10 |
| 12 ways                    | EZB250W12 | EZB400W12 | EZB630W12 |

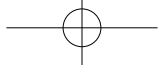


EasyPact EZC and Compact NSX branch breaker extension 2 ways.

## EasyPact EZC and Compact NSX branch extension

For applications calling for larger than 100 A outgoing MCCB's, EasyPact EZC Busbar rated 400 A and 630 A can accept the 2 ways or 4 ways EasyPact EZC and Compact NSX branch extension for up to four additional 250 A max. outgoing circuits. EasyPact EZC and Compact NSX branch extensions simply connect directly to the terminals provided on the EZB400 and EZB630 EasyPact EZC Busbar.

| Designation                        | Cat. no. |
|------------------------------------|----------|
| EZ/NSX/NB branch breaker extension |          |
| 2 ways                             | EZBNS2   |
| 4 ways                             | EZBNS4   |



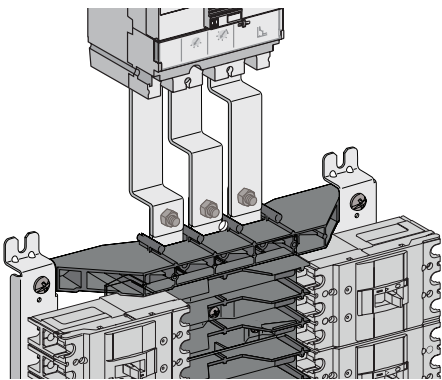
Busbars

Accessories

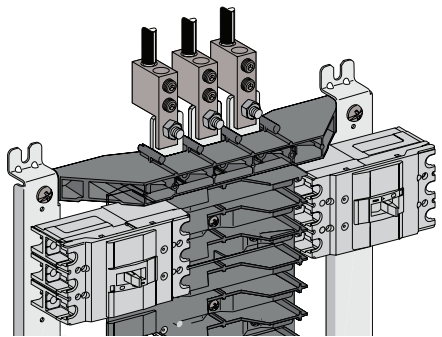
E88301-50.eps



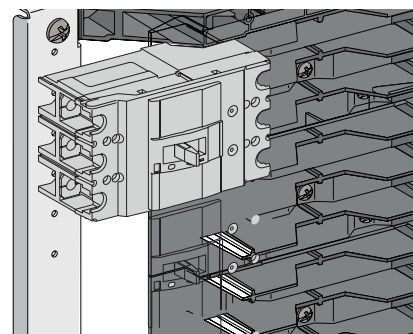
EZ117P-60\_SE



CD8500620\_00



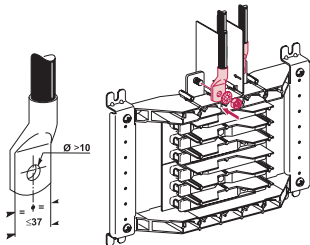
E88310-54\_SE



Main incoming connections

Incoming cables with crimped lugs can connect directly to the terminals provided.

DB116427.eps



Main connectors

For installing a main disconnect device (EasyPact EZC or Compact NSX MCCB or INS switch) ahead of EasyPact EZC Busbar, use the tin-plated copper connector kits below.

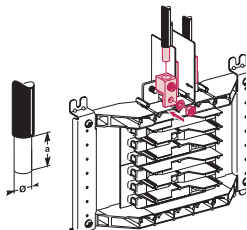
| Designation                                                          | Cat. no.   |            |            |
|----------------------------------------------------------------------|------------|------------|------------|
| Main Busbar current rating                                           | 250 A      | 400 A      | 630 A      |
| Main disconnect device for EasyPact EZC or Compact NSX or INS switch | EZB250MCNS | EZB400MCNS | EZB630MCNS |

Mechanical lugs

For incoming cables without crimped lugs, use the mechanical lug kits below. Each kit contains three aluminium lugs suitable for copper or aluminium cables.

| Designation                | Cat. no.               |                       |                                              |
|----------------------------|------------------------|-----------------------|----------------------------------------------|
| Main Busbar current rating | 250 A                  | 400 A                 | 630 A                                        |
| Incoming cable size        | 16-150 mm <sup>2</sup> | 35-300mm <sup>2</sup> | 25-240 mm <sup>2</sup><br>2 cables per phase |
| Lug kit                    | EZB250MLUG             | EZB400MLUG            | EZB630MLUG                                   |

DB116428.eps



DB116429.eps

|       | A  | B                      | C     |
|-------|----|------------------------|-------|
| 250 A |    |                        |       |
| a     | Ø  |                        |       |
| A     | 26 | 16-150 mm <sup>2</sup> | 31 Nm |
| B     | 35 | 35-300 mm <sup>2</sup> | 56 Nm |
| C     | 30 | 25-240 mm <sup>2</sup> | 56 Nm |
| 60    |    | 25-240 mm <sup>2</sup> | 56 Nm |

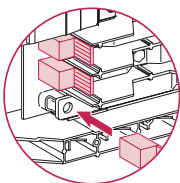
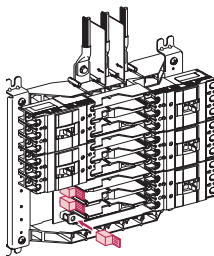
Connector caps

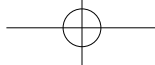
Connector caps are available to isolate the ends of connectors in positions where branch breakers are not installed.

Mounting screws are provided for an insulating barrier (locally provided) to cover the branch connectors when IP2X finger safety is specified.

| Designation               | Cat. no.  |
|---------------------------|-----------|
| Connector caps (set of 3) |           |
| Caps for 100 A outgoing   | EZB100CAP |
| Caps for 250 A outgoing   | EZB250CAP |

DB116430.eps



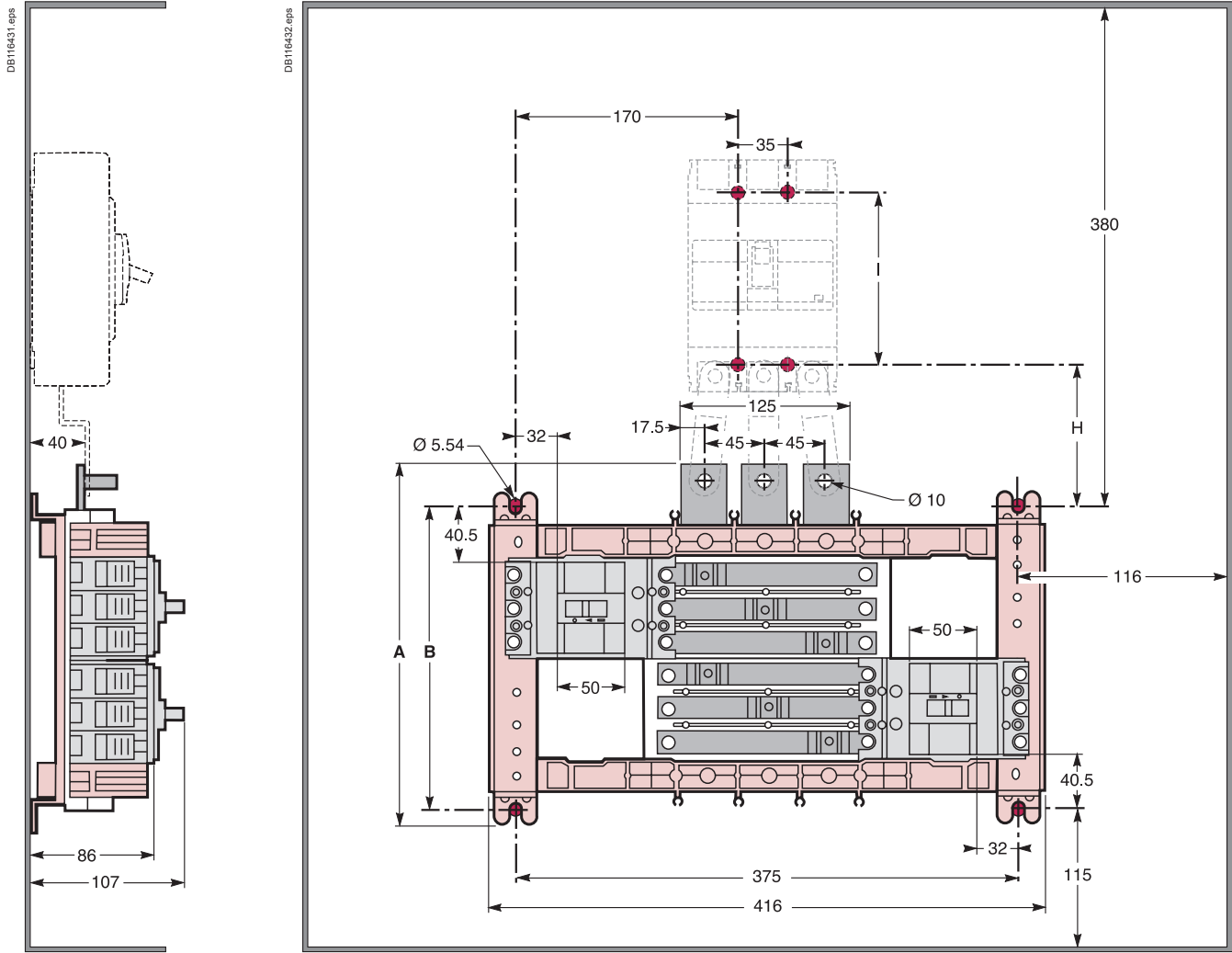


# Dimensions

## Busbar EZB250

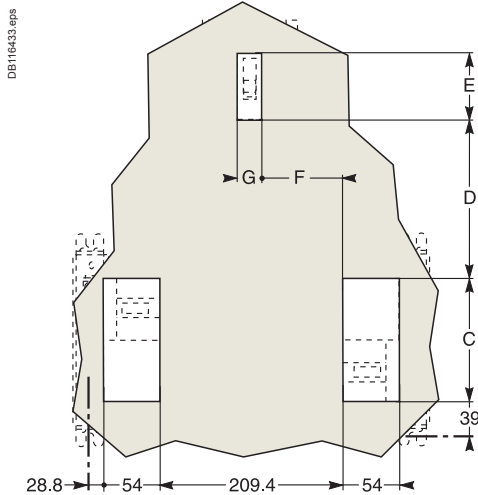
### Layout installation EZB250

Panel layout using the EasyPact EZC Busbar is simple using the guides below. In addition to the mounting locations for the busbar and main disconnect components (if required), make note of the minimum clearances required to the top, bottom and sides of the enclosure.

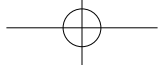


EZB250 - 250 A main busbar rating.

### Trim cut-out

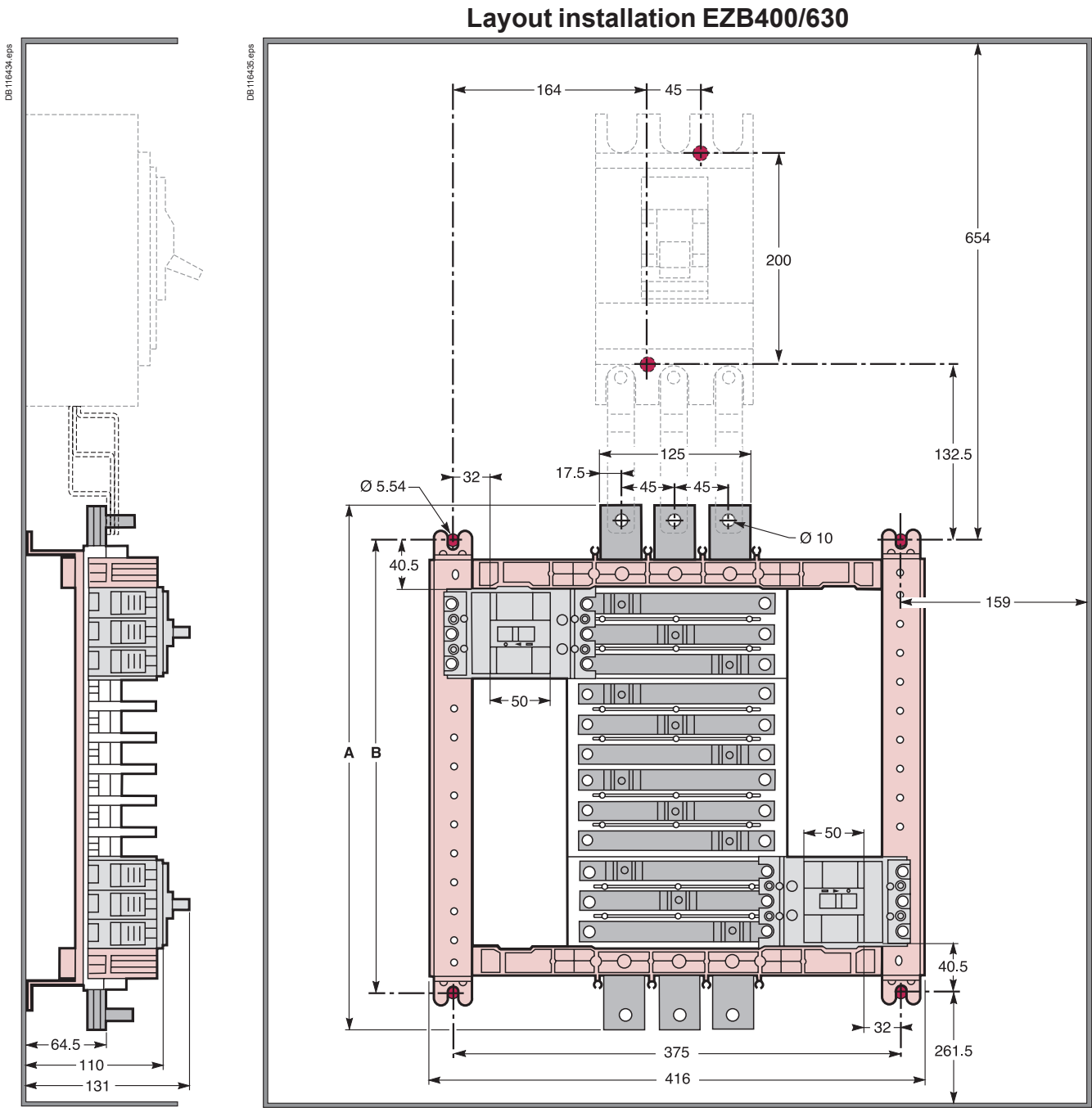


|               | A     | B   | C   | D     | E  | F    | G  | H     | I   |
|---------------|-------|-----|-----|-------|----|------|----|-------|-----|
| EZ250 incomer | -     | -   | -   | 187.4 | 52 | 92.7 | 24 | 109.5 | 126 |
| NS incomer    | -     | -   | -   | 182.4 | 76 | 90.2 | 29 | 108   | 125 |
| 4 ways        | 268.5 | 225 | 147 | -     | -  | -    | -  | -     | -   |
| 6 ways        | 343.5 | 300 | 222 | -     | -  | -    | -  | -     | -   |
| 8 ways        | 418.5 | 375 | 297 | -     | -  | -    | -  | -     | -   |
| 10 ways       | 493.5 | 450 | 372 | -     | -  | -    | -  | -     | -   |
| 12 ways       | 568.5 | 525 | 447 | -     | -  | -    | -  | -     | -   |



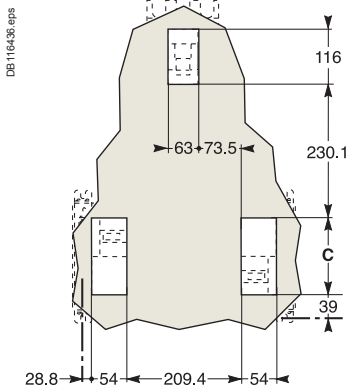
Busbars

Dimensions  
Busbars EZB400/630



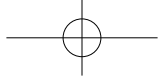
EZB400 and EZB630 - 400 A  
and 630 A main busbar ratings.

Trim cut-out



|         | A   | B   | C   |
|---------|-----|-----|-----|
| 4 ways  | 290 | 225 | 147 |
| 6 ways  | 365 | 300 | 222 |
| 8 ways  | 440 | 375 | 297 |
| 10 ways | 515 | 450 | 372 |
| 12 ways | 590 | 525 | 447 |

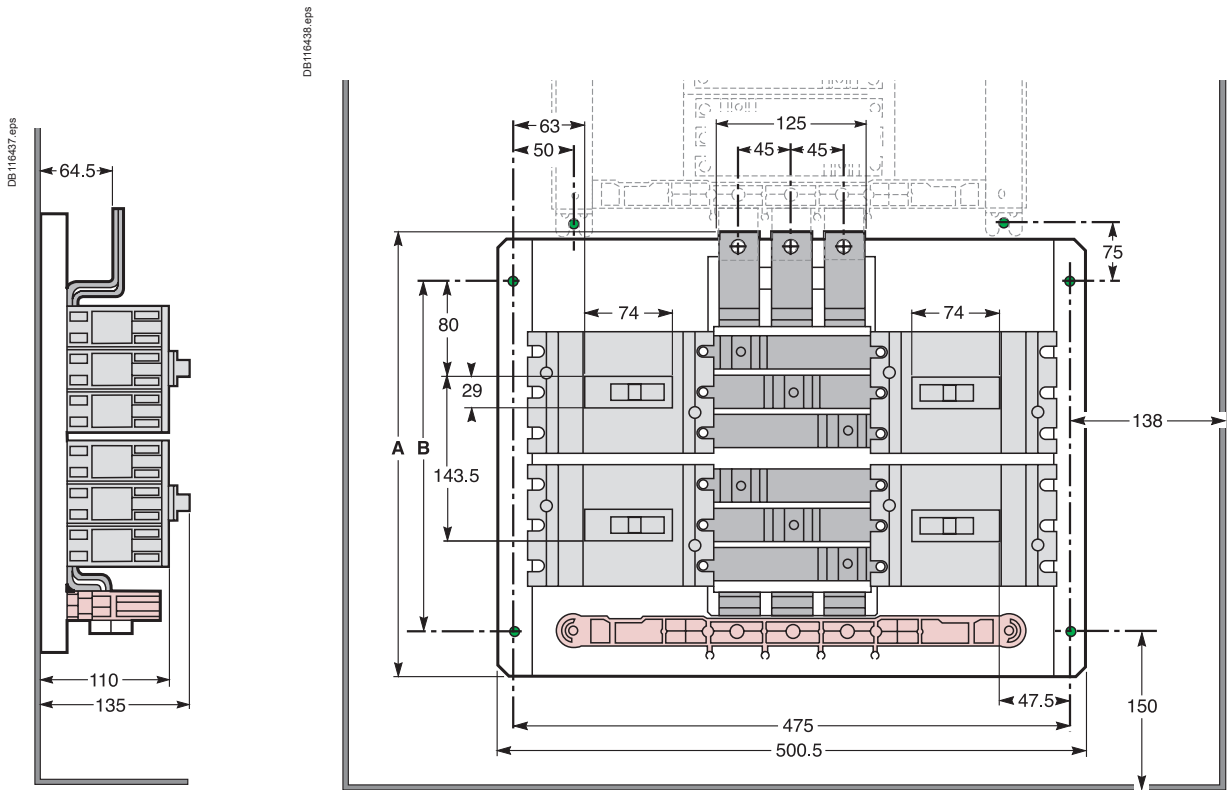
**Note:** to avoid excess temperature rise on incoming MCCB terminals, panels using 630 A main breaker with these minimum enclosure dimensions require a 7000 mm<sup>2</sup> ventilation opening (after subtracting effects of screening) at each of the 4 corners of the enclosure.



# Dimensions

## EasyPact EZC or Compact NSX branch extensions layout

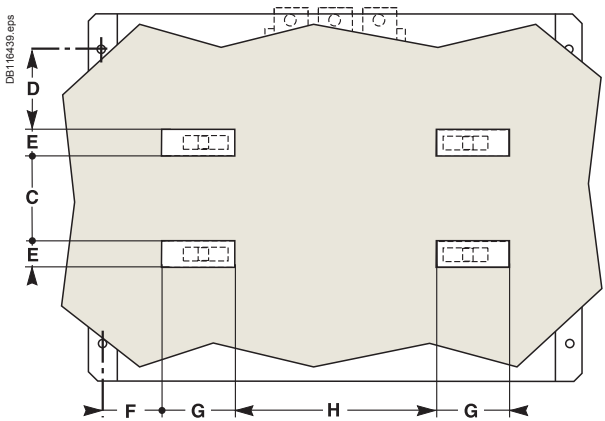
### Layout installation for EasyPact EZC or Compact NSX branch extensions

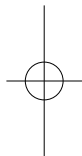
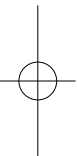
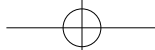


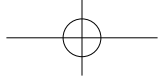
EZBNS2 and EZBNS4 Compact NSX branch breaker extension.

|        | A   | B   | C    | D    | E  | F    | G  | H   |
|--------|-----|-----|------|------|----|------|----|-----|
| EZBNS2 | 270 | 175 | NA   | -    | -  | -    | -  | -   |
| EZBNS4 | 384 | 275 | 85.5 | -    | -  | -    | -  | -   |
| EZC250 | -   | -   | 90.5 | 57.5 | 24 | 61   | 52 | 249 |
| NSX250 | -   | -   | 85.5 | 78.5 | 29 | 45.5 | 76 | 232 |

#### Trim cut-out





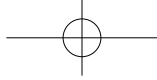


|                                                |             |
|------------------------------------------------|-------------|
| <i>Presentation</i>                            | <i>II</i>   |
| <i>Functions and characteristics</i>           | <i>A-1</i>  |
| <i>Busbars</i>                                 | <i>B-1</i>  |
| <b>Dimensions</b>                              |             |
| EasyPact Ezc 100                               | C-2         |
| EasyPact Ezc 100 A with plug-in                | C-4         |
| EasyPact Ezc 250 - Ezc 250/EzcV 250            | C-6         |
| EasyPact Ezc 250 A with plug-in                | C-8         |
| EasyPact Ezc 400/630                           | C-10        |
| EasyPact Ezc 100 accessories                   | C-12        |
| EasyPact Ezc 250 accessories                   | C-13        |
| EasyPact Ezc 400/630 accessories               | C-14        |
| <b>Safety clearances and minimum distances</b> | <b>C-15</b> |
| <b>Temperature derating</b>                    | <b>C-17</b> |
| <b>Tripping curves</b>                         | <b>C-18</b> |
| <b>Current-limiting curves</b>                 | <b>C-20</b> |
| <b>Cascading</b>                               | <b>C-21</b> |
| <b>Cascading tables</b>                        | <b>C-22</b> |
| <b>Motor protection</b>                        | <b>C-24</b> |
| <b>Capacitor protection</b>                    | <b>C-26</b> |
| <i>Catalogue numbers</i>                       | <i>D-1</i>  |



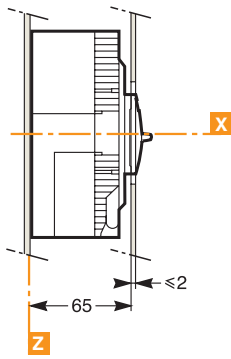






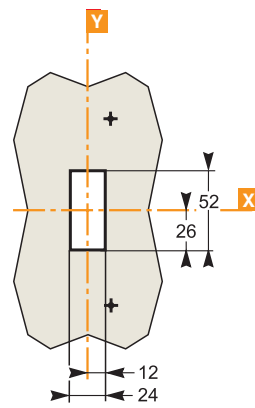
## Door cut-out (small)

DB116455



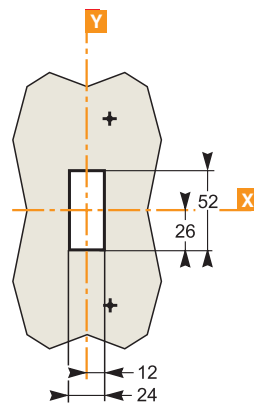
1P, 3P

DB116457



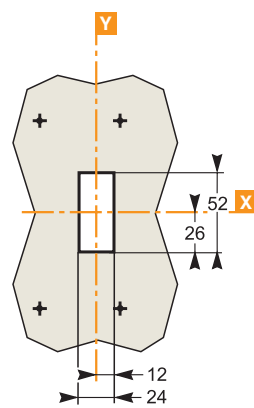
2P

DB116457



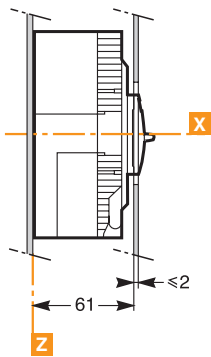
4P

DB116458



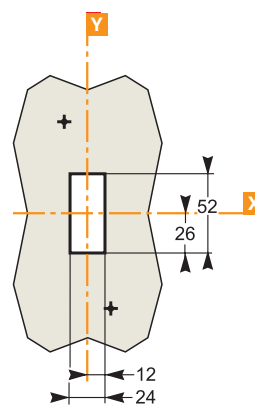
## Door cut-out (large)

DB116459



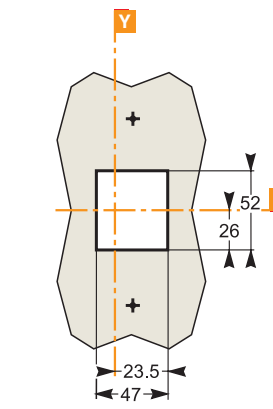
1P

DB116460



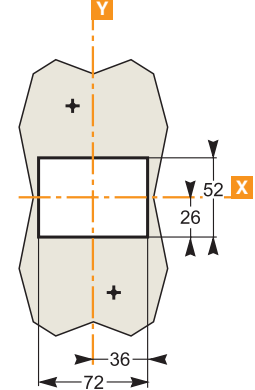
2P

DB116461



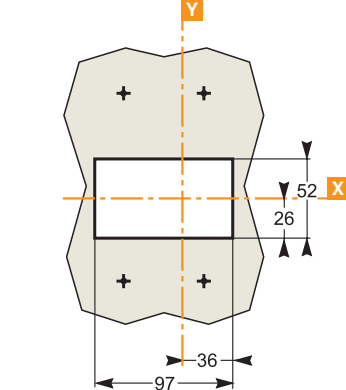
3P

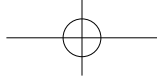
DB116462



4P

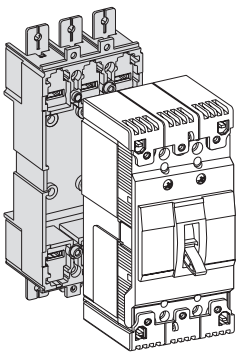
DB116463



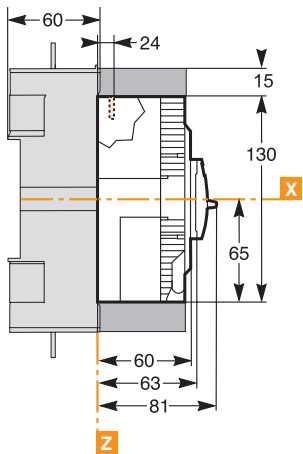


Dimensions

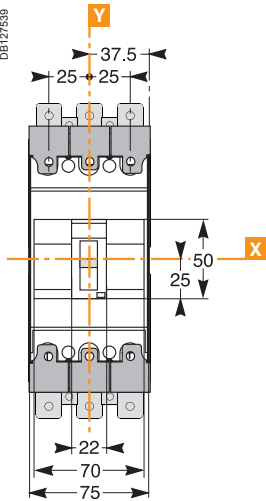
DB127536



DB127538

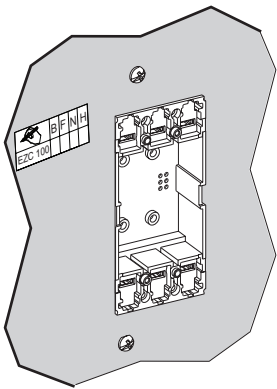


DB127539

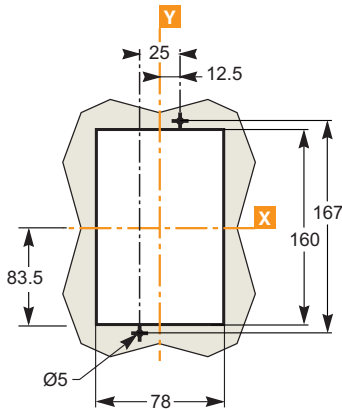


Mounting  
Through front panel

DB127541

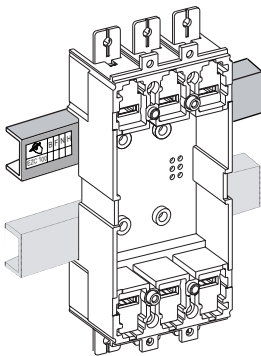


DB127537

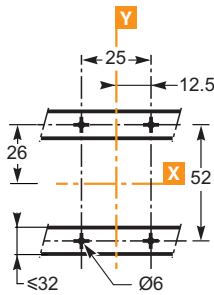


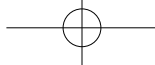
On rail

DB127542

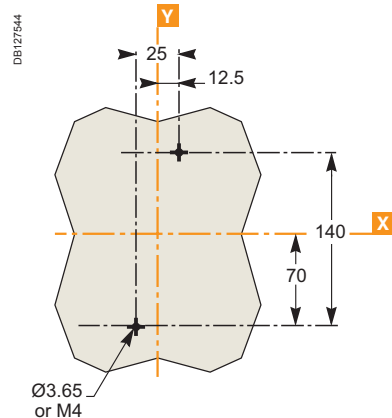
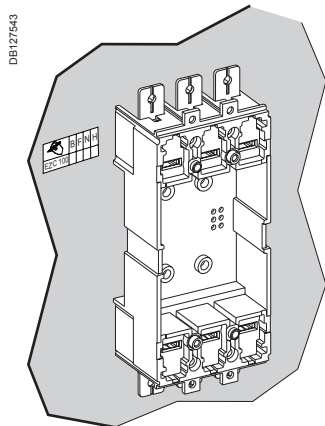


DB127540

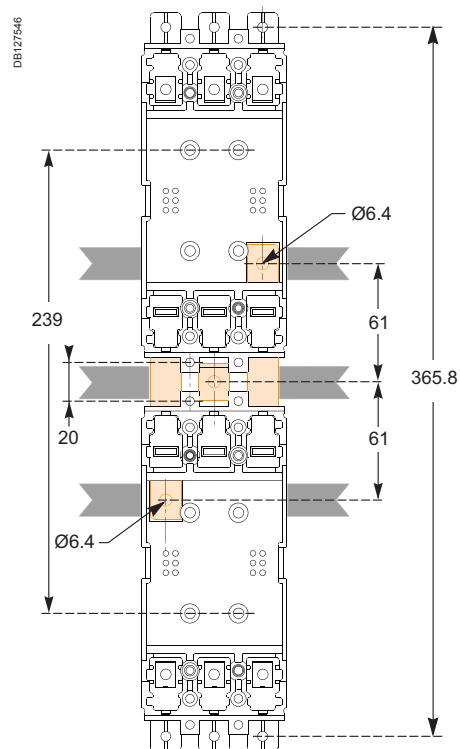
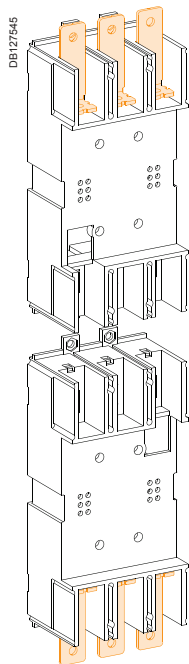


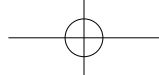


## On backplate



## Dimensions - combination





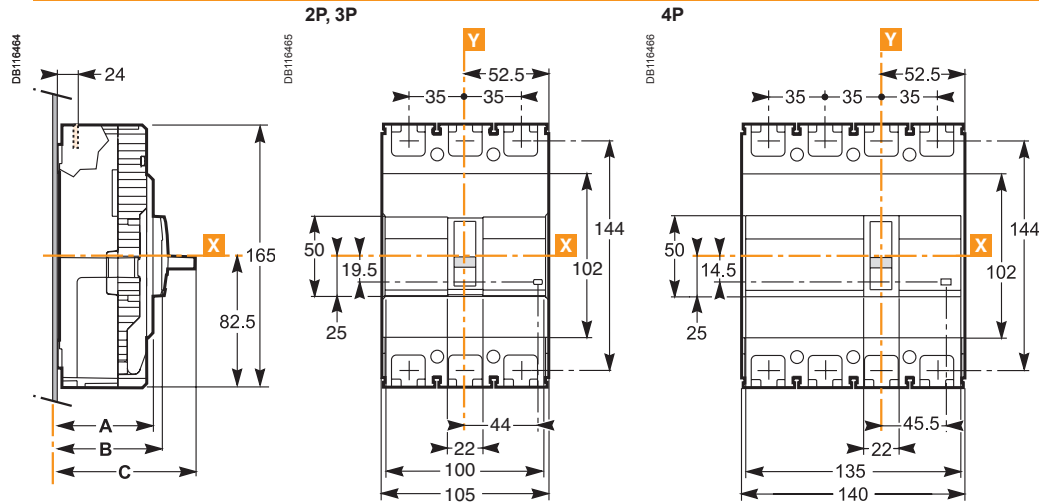
## Installation guide

# Dimensions

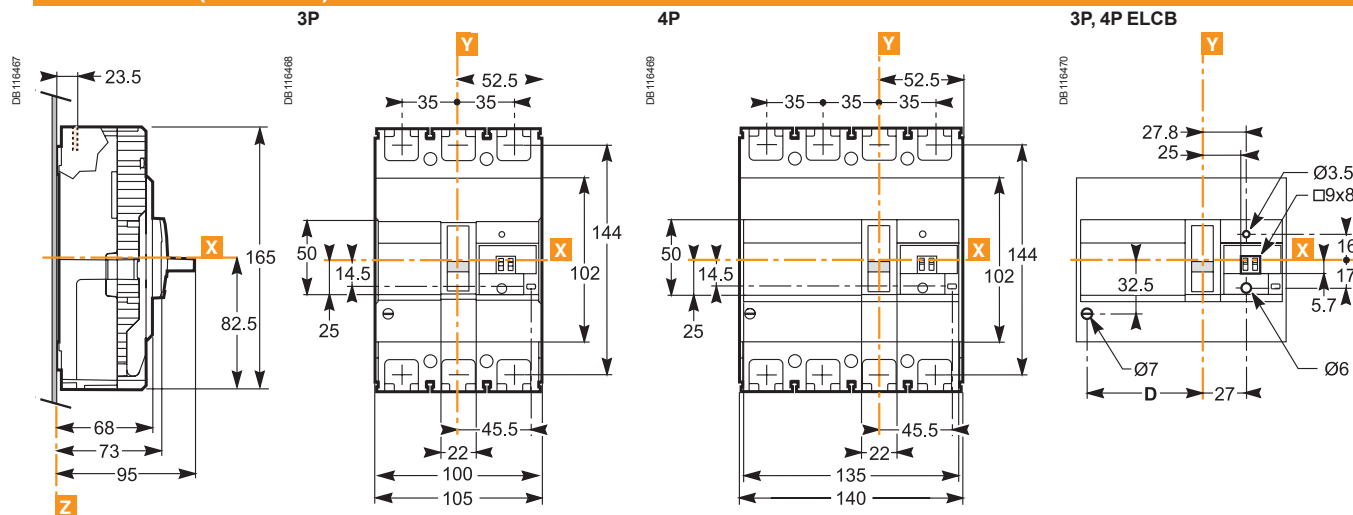
## EasyPact EZC 250

## EZC 250/EZCV 250

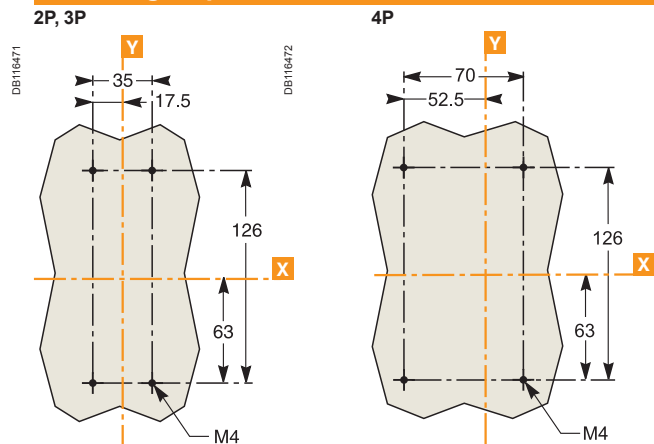
### Dimensions (EZC250)

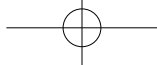


### Dimensions (EZCV250)

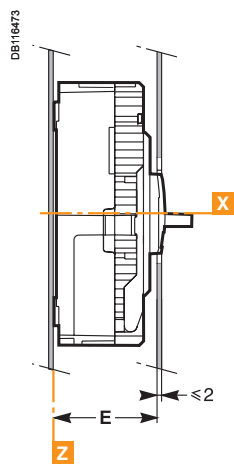


### Mounting on plate

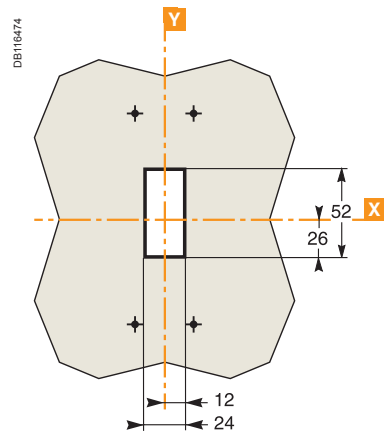




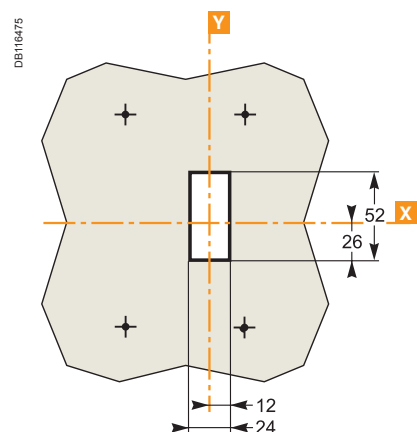
Door cut-out (small)



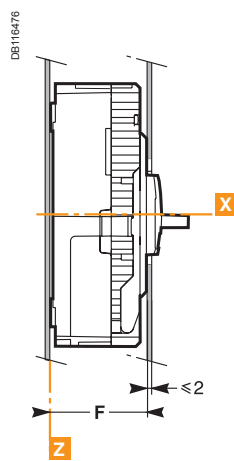
2P, 3P



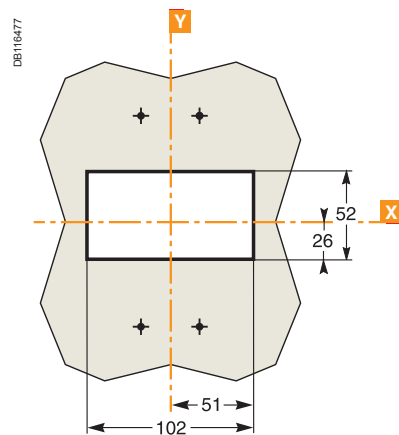
4P



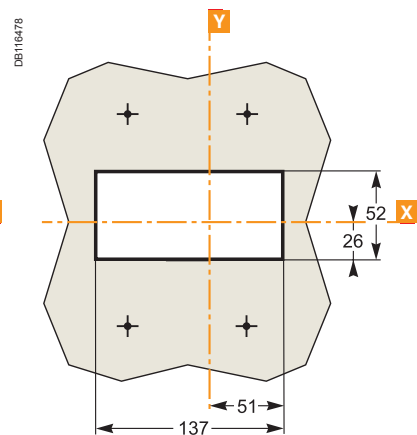
Door cut-out (large)



2P, 3P

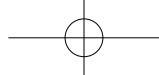


4P



Dimensions (mm)

|          | A  | B  | C    | D    | E  | F  |
|----------|----|----|------|------|----|----|
| EZC 2/3P | 60 | 65 | 85.5 | -    | 67 | 61 |
| EZC 4P   | 68 | 73 | 95   | -    | 75 | 69 |
| EZCV 3P  |    |    |      | 45.5 |    |    |
| EZCV 4P  |    |    |      | 80.5 |    |    |

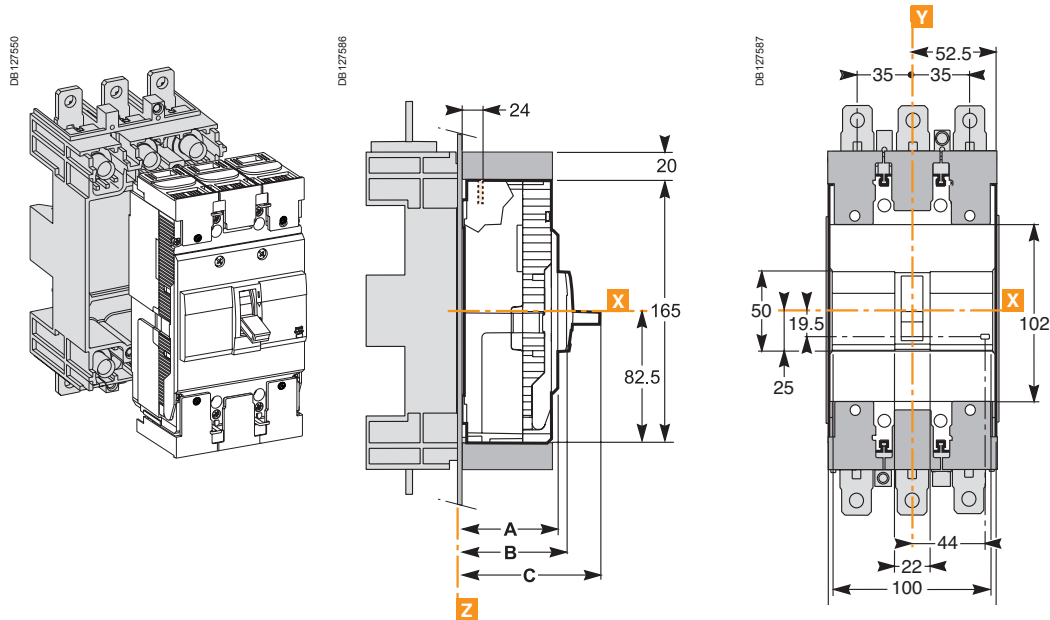


## Installation guide

# Dimensions

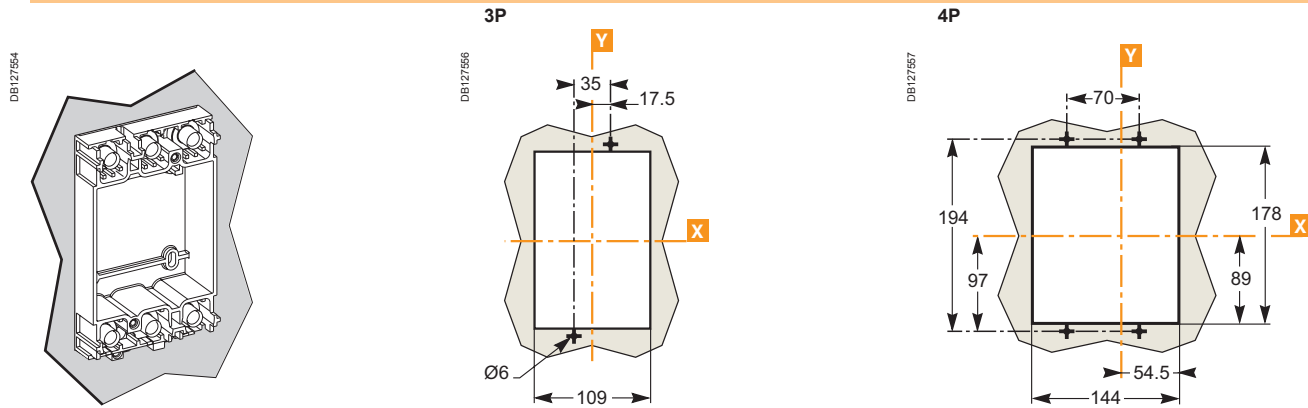
## EasyPact EZC 250 A with plug-in

### Dimensions

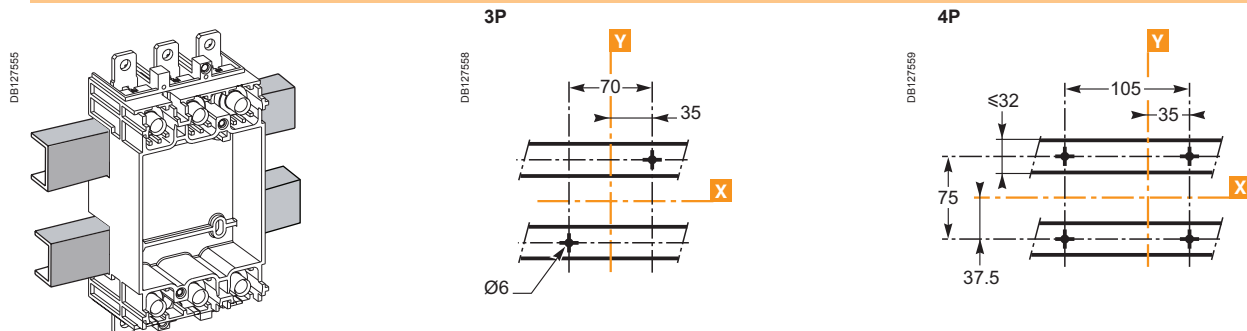


### Mounting

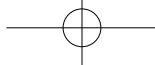
#### Through front panel



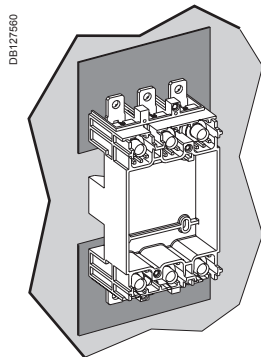
#### On rail



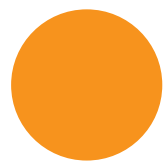
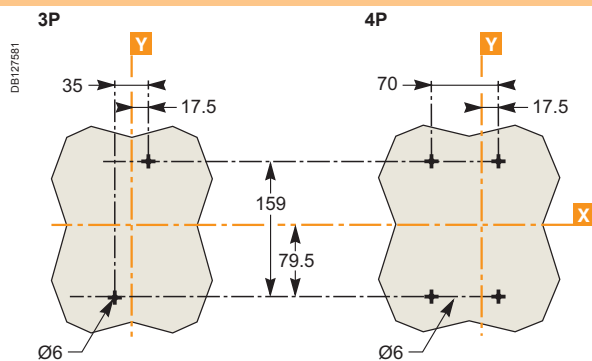




On backplate



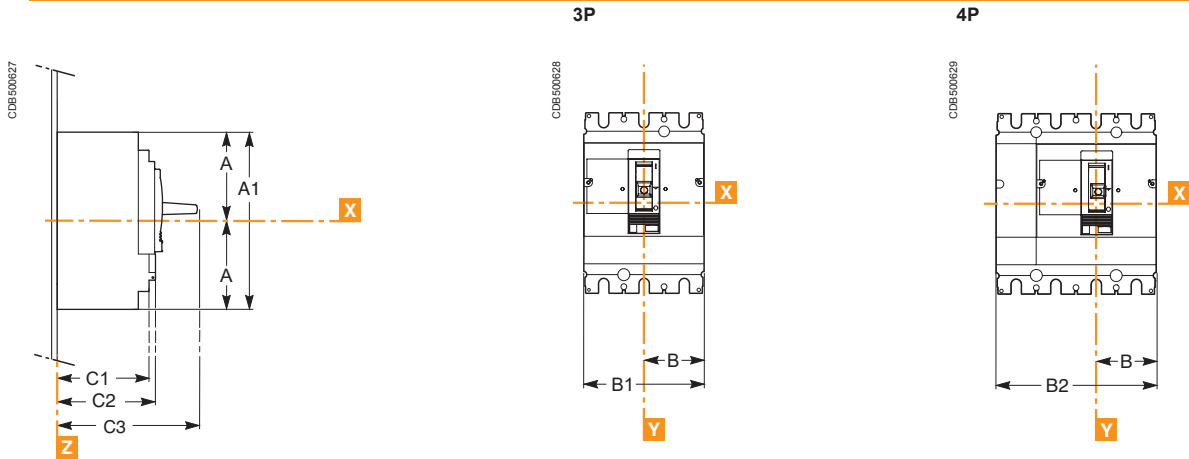
DB127560



# Dimensions

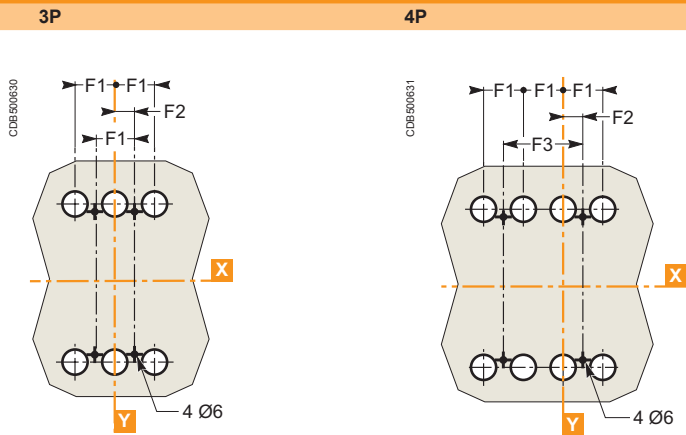
## EasyPact EZC 400/630

### Dimensions



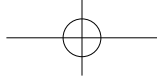
### Mounting on plate

On backplate



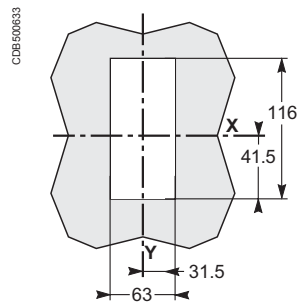
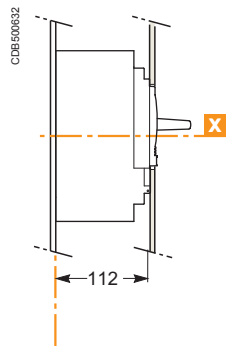
(1) The ØT holes are required for rear connection only.

| A     | A1  | B  | B1  | B2  | F1 | F2   | F3 | F4 |
|-------|-----|----|-----|-----|----|------|----|----|
| 127.5 | 255 | 70 | 140 | 185 | 45 | 22.5 | 90 |    |



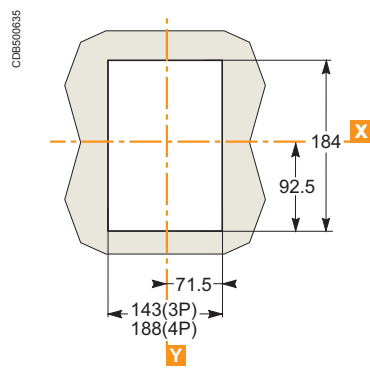
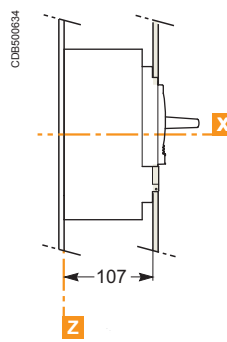
## Bare sheet metal

For toggle



Z

For toggle with access to trip unit



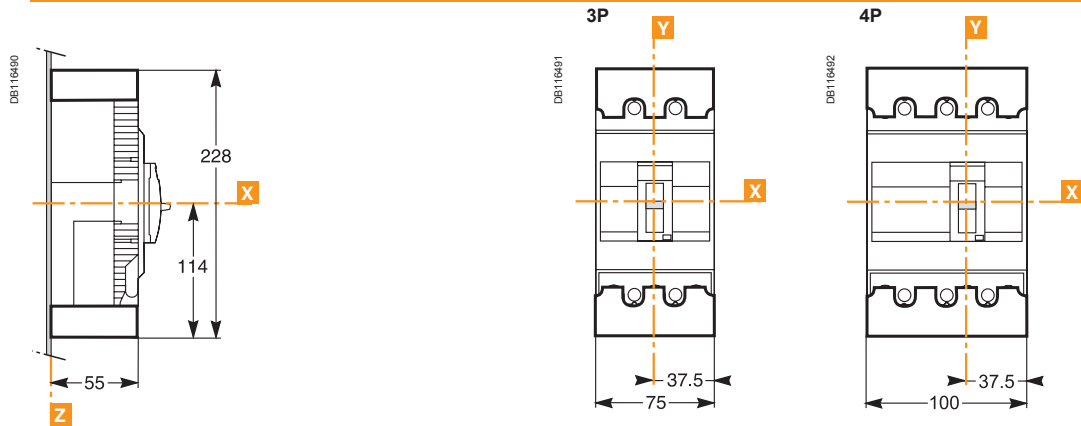
Y



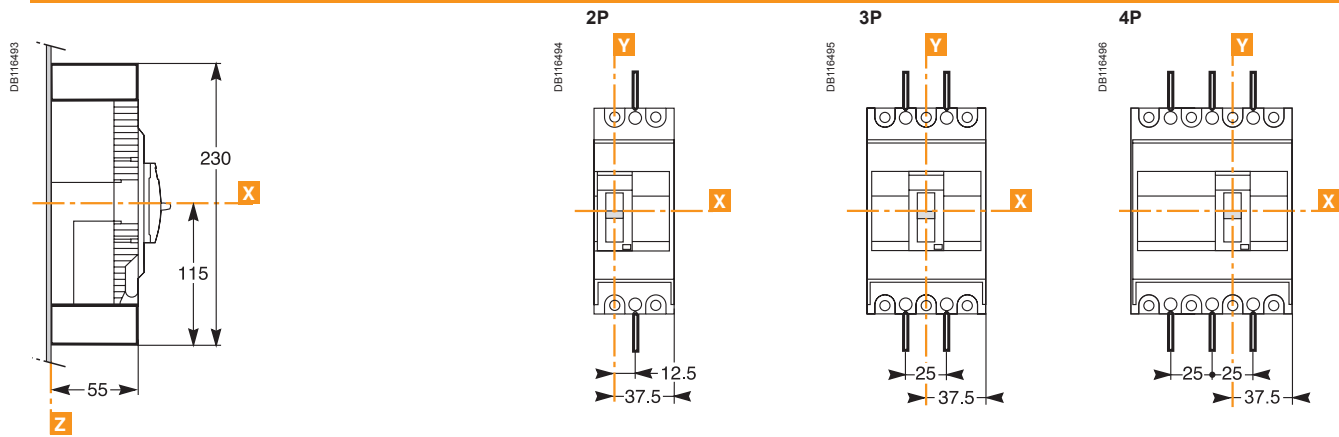
# Dimensions

## EasyPact EZC 100 accessories

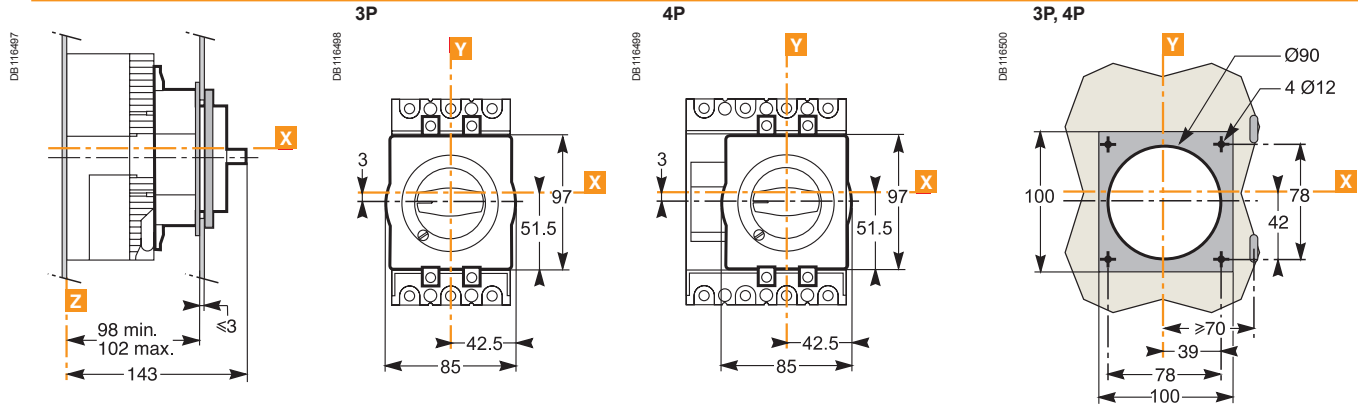
### Terminal shields



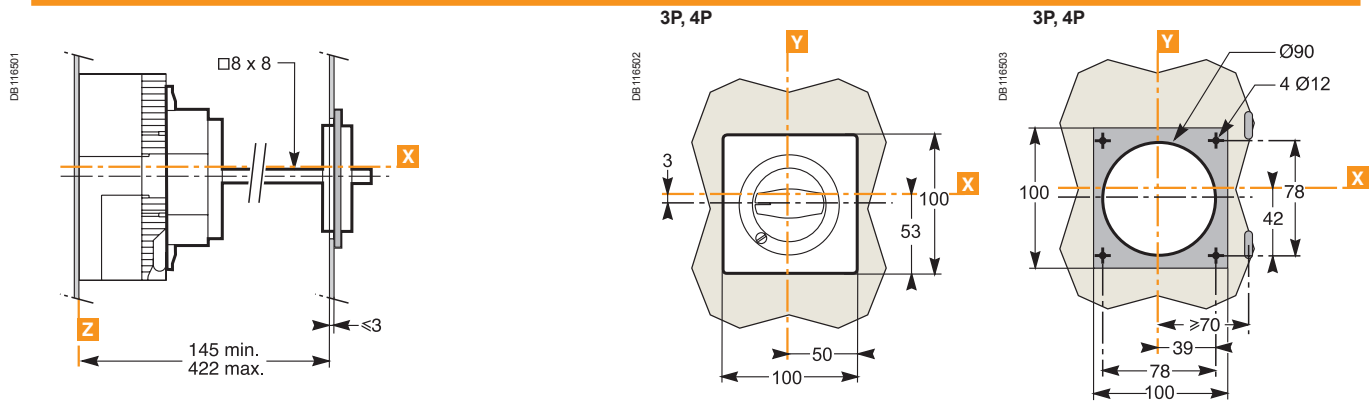
### Phase barriers

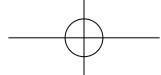


### Direct rotary handle



### Extended rotary handle

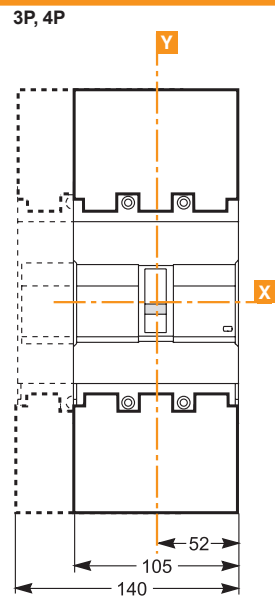
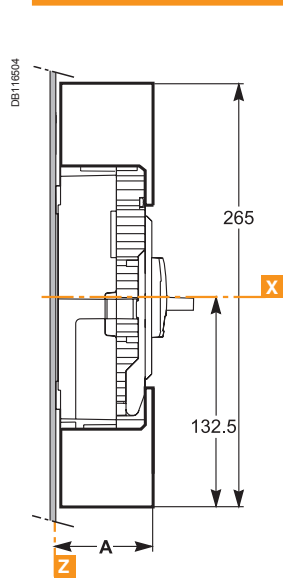




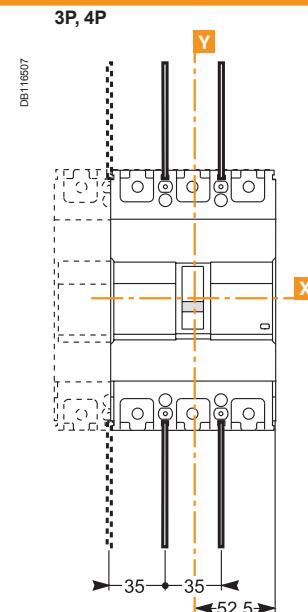
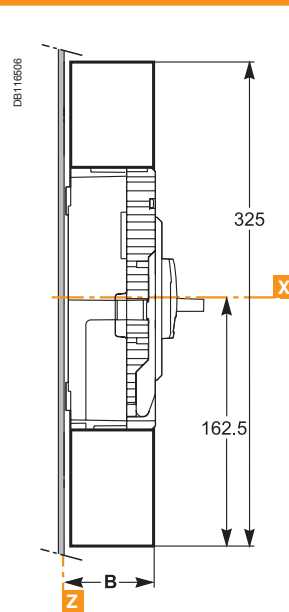
# Dimensions

## EasyPact EZC 250 accessories

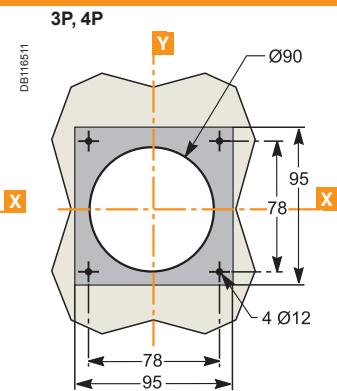
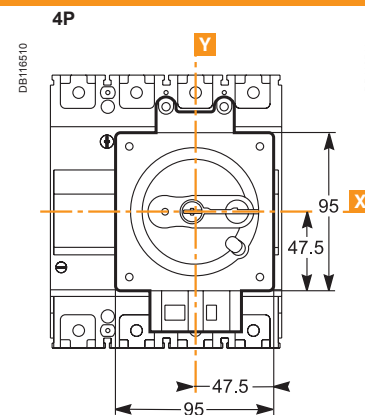
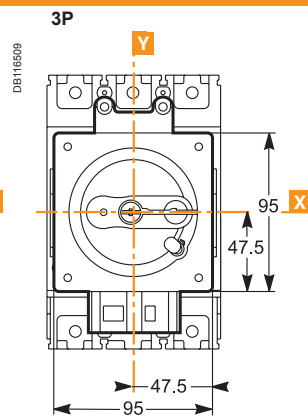
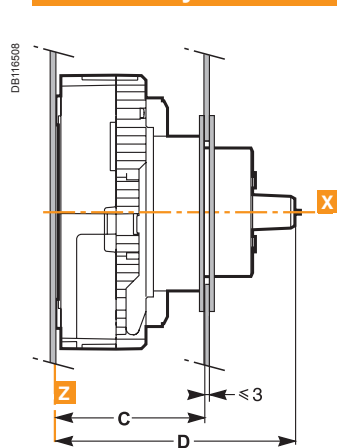
### Terminal shields



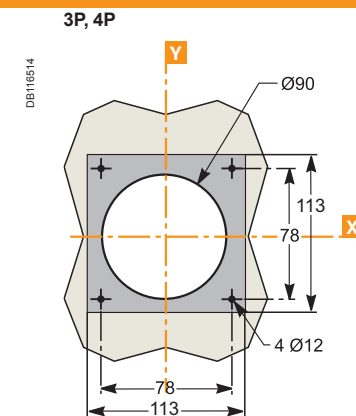
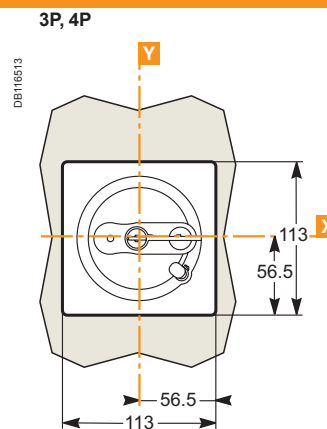
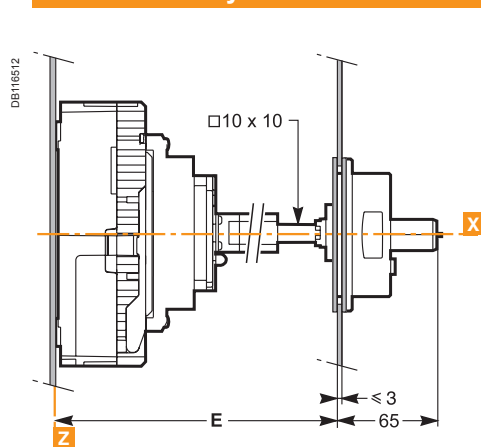
### Phase barriers



### Direct rotary handle

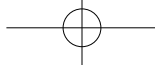


### Extended rotary handle



#### Dimensions (mm)

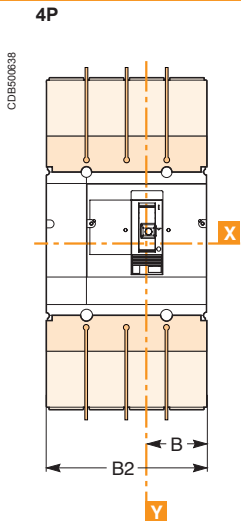
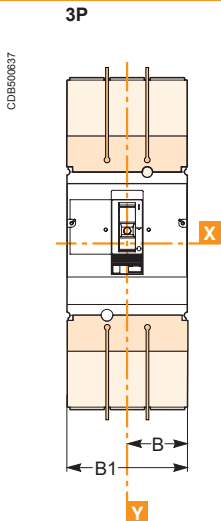
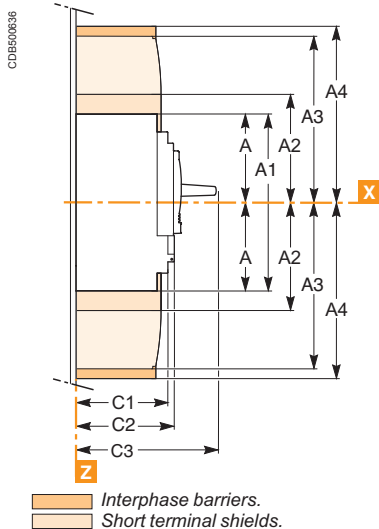
|            | A    | B  | C          | D   | E          |
|------------|------|----|------------|-----|------------|
| EZC 2/3P   | 58.5 | 55 | 93 to 97   | 145 | 137 to 414 |
| EZC 4P     | 66.5 | 63 | 101 to 105 | 153 | 145 to 422 |
| EZCV 3P/4P |      |    |            |     |            |



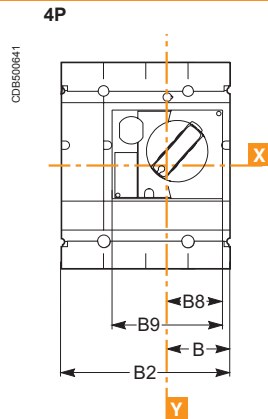
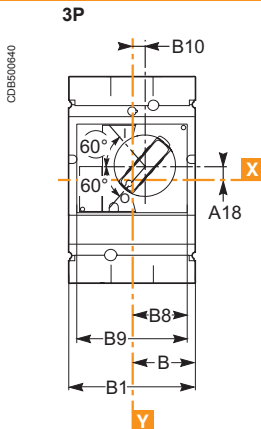
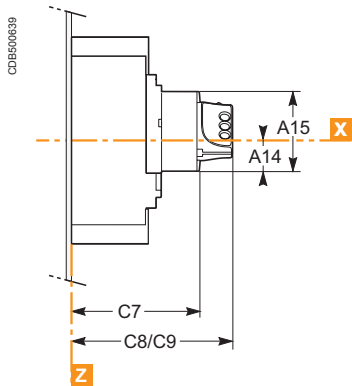
Installation guide

Dimensions  
EasyPact EZC 400/630 accessories

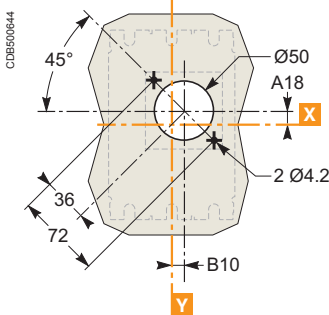
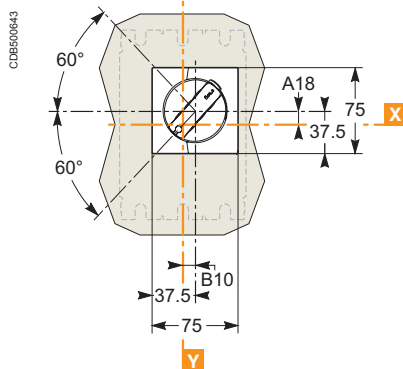
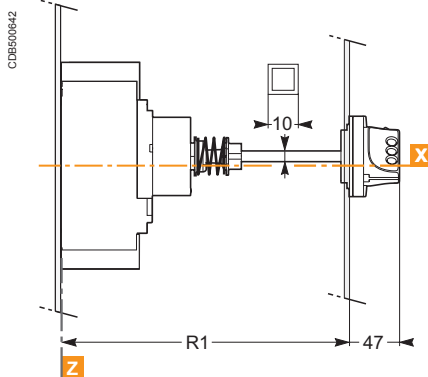
Terminal shields and Interphase barriers



Direct rotary handle

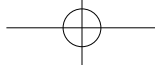


Extended rotary handle



R1  
min. 195  
max. 600

| A     | A1  | A2    | A3  | A4   | B  | B1   | B2  | C1   | C2  | C3  | F1 | F2   | F3 |     |  |     |  |      |  |     |  |
|-------|-----|-------|-----|------|----|------|-----|------|-----|-----|----|------|----|-----|--|-----|--|------|--|-----|--|
| 127.5 | 255 | 142.5 | 200 | 237  | 70 | 140  | 185 | 95.5 | 110 | 168 | 45 | 22.5 | 90 |     |  |     |  |      |  |     |  |
| A14   |     | A15   |     | A18  |    | B8   |     | B9   |     | B10 |    | C7   |    | C8  |  | C9  |  | A18  |  | B10 |  |
| 40    |     | 123   |     | 24.6 |    | 61.5 |     | 123  |     | 5   |    | 145  |    | 179 |  | 188 |  | 24.6 |  | 5   |  |



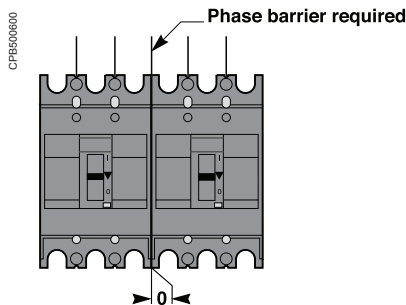
# Safety clearances and minimum distances

When installing a circuit breaker, minimum distances (safety clearances) must be maintained between the device and panels, bars and other protection devices installed nearby. These distances, which depend on the ultimate breaking capacity, are defined by tests carried out in accordance with standard IEC 60947-2.

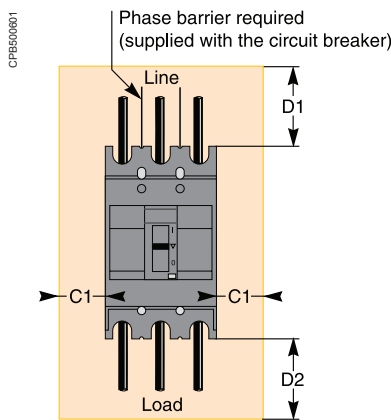
- If installation conformity is not checked by type tests, it is also necessary to:
- use insulated bars for circuit-breaker connections
  - block off the busbars using insulating screens.

For EasyPact EZC breaker, terminal shields, inter-phase barriers or an insulation isolator are recommended and may be mandatory depending on the utilisation voltage and the type of installation.

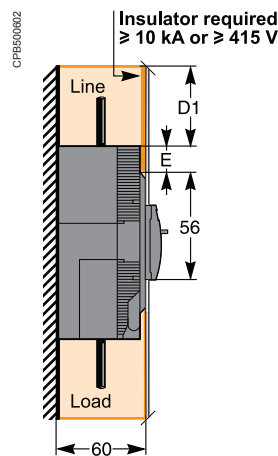
## Minimal distance between two adjacent circuit breakers



## Minimal distance between the circuit breaker and top, bottom or side panels



## Minimal distance between the circuit breaker and front or rear panels

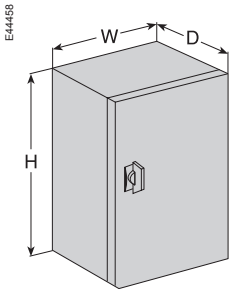


| Dimensions (mm)              | Bare or painted sheet metal: |                |     |                           |     |      |
|------------------------------|------------------------------|----------------|-----|---------------------------|-----|------|
|                              |                              | insulated bars |     | bare busbar under voltage |     |      |
| EasyPact EZC circuit breaker | C1                           | D1             | D2  | D1                        | D2  | E    |
| EZC100B/F/N                  | 40                           | 45             | 45  | 75                        | 45  | 40   |
| EZC100H                      | 40                           | 60             | 45  | 75                        | 45  | 40   |
| EZC250F/N-EZCV250N           | 50                           | 60             | 45  | 140                       | 45  | 42.5 |
| EZC250H-EZCV250H             | 50                           | 80             | 45  | 140                       | 45  | 42.5 |
| EZC400N                      | 50                           | 120            | 100 | 250                       | 100 | 40   |
| EZC400H                      | 80                           | 140            | 100 | 250                       | 100 | 40   |
| EZC630N                      | 50                           | 120            | 100 | 250                       | 100 | 40   |
| EZC630H                      | 80                           | 140            | 100 | 250                       | 100 | 40   |

The mandatory distances when installing EasyPact EZC circuit breakers are calculated from the device case, not taking into account the terminal shields or the phase barriers.



# Safety clearances and minimum distances



Installation in an enclosure.

## Installation in an enclosure

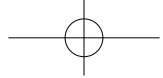
EasyPact EZC circuit breakers can be installed in a metal enclosure together with other devices (contactors, motor-protection circuit breakers, LEDs, etc.).

### Minimum enclosure dimensions (3P)

| Circuit breakers   | Height (mm) | Depth (mm) <sup>(1)</sup> | Width (mm) |
|--------------------|-------------|---------------------------|------------|
| EZC100B/F/N        | 200         | 90                        | 155        |
| EZC100H            | 215         | 90                        | 155        |
| EZC250F/N-EZCV250N | 270         | 90                        | 205        |
| EZC250H-EZCV250H   | 290         | 90                        | 205        |
| EZC400N            | 480         | 160                       | 240        |
| EZC400H            | 500         | 160                       | 300        |
| EZC630N            | 480         | 160                       | 240        |
| EZC630H            | 500         | 160                       | 300        |

(1) With front door.





# Temperature derating

## Ambient temperature

EasyPact EZC devices are equipped with fixed thermal-magnetic trip units.

■ EasyPact EZC has been particularly designed to hold 100 % In at 50 °C without tripping in normal condition (except for earth-leakage circuit breakers).

■ EasyPact EZC circuit breakers may be used between -25 °C and +70 °C.

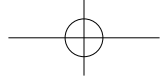
■ EasyPact EZC circuit breakers should be put into service under normal ambient operating temperature conditions. Exceptionally, the circuit breaker may be put into service when the ambient temperature is between -35 °C and -25 °C.

■ the permissible storage-temperature range for EasyPact EZC circuit breakers in the original packing is -35 °C to +85 °C.

To determine tripping times using time/current curves, use Ir values corresponding to the thermal setting on the device, corrected as indicated in the tables below.

| Rated current<br>(A) | 25 °C | 40 °C | 45 °C | 50 °C | 55 °C | 60 °C | 65 °C | 70 °C |
|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>EZC100</b>        |       |       |       |       |       |       |       |       |
| 15                   | 17.0  | 15.7  | 15.3  | 15.0  | 14.7  | 14.6  | 14.2  | 13.8  |
| 16                   | 18.1  | 16.7  | 16.3  | 16.0  | 15.7  | 15.6  | 15.1  | 14.7  |
| 20                   | 21.8  | 20.4  | 20.2  | 20.0  | 19.7  | 19.2  | 18.9  | 18.5  |
| 25                   | 26.9  | 25.7  | 25.3  | 25.0  | 24.7  | 24.5  | 24.3  | 24.0  |
| 30                   | 34.5  | 31.4  | 30.7  | 30.0  | 29.4  | 29.1  | 28.5  | 28.0  |
| 32                   | 36.8  | 33.5  | 32.7  | 32.0  | 31.4  | 31.0  | 30.4  | 29.9  |
| 40                   | 42.8  | 40.9  | 40.4  | 40.0  | 39.5  | 38.0  | 37.6  | 37.1  |
| 45                   | 48.8  | 46.9  | 45.9  | 45.0  | 44.4  | 43.3  | 42.6  | 41.9  |
| 50                   | 54.2  | 52.1  | 51.0  | 50.0  | 49.3  | 48.1  | 47.3  | 46.6  |
| 60                   | 64.4  | 61.8  | 60.9  | 60.0  | 59.0  | 57.5  | 56.6  | 55.7  |
| 63                   | 67.6  | 64.9  | 63.9  | 63.0  | 62.0  | 60.4  | 59.4  | 58.5  |
| 75                   | 78.6  | 76.8  | 75.9  | 75.0  | 73.5  | 70.4  | 69.8  | 69.1  |
| 80                   | 84.4  | 82.2  | 81.1  | 80.0  | 78.6  | 77.3  | 76.7  | 76.1  |
| 100                  | 109   | 103   | 101   | 100   | 99    | 94    | 94    | 93    |
| <b>EZC250</b>        |       |       |       |       |       |       |       |       |
| 63                   | 77    | 69    | 66    | 63    | 60    | 56    | 53    | 49    |
| 80                   | 93    | 86    | 83    | 80    | 77    | 74    | 71    | 68    |
| 100                  | 115   | 106   | 103   | 100   | 96    | 93    | 89    | 85    |
| 125                  | 148   | 135   | 130   | 125   | 120   | 114   | 109   | 103   |
| 150                  | 174   | 160   | 155   | 150   | 145   | 139   | 134   | 128   |
| 160                  | 186   | 171   | 166   | 160   | 154   | 148   | 142   | 136   |
| 175                  | 207   | 188   | 182   | 175   | 168   | 161   | 153   | 145   |
| 200                  | 236   | 215   | 208   | 200   | 192   | 184   | 175   | 166   |
| 225                  | 268   | 244   | 235   | 225   | 215   | 205   | 194   | 182   |
| 250                  | 297   | 270   | 260   | 250   | 239   | 228   | 215   | 203   |
| <b>EZCV250</b>       |       |       |       |       |       |       |       |       |
| 63                   | 72    | 63    | 60    | 56    | 53    | 49    | 44    | 39    |
| 80                   | 89    | 80    | 77    | 73    | 70    | 66    | 62    | 58    |
| 100                  | 113   | 100   | 95    | 91    | 86    | 80    | 74    | 68    |
| 125                  | 140   | 125   | 120   | 114   | 108   | 102   | 95    | 88    |
| 150                  | 163   | 150   | 145   | 141   | 136   | 131   | 125   | 120   |
| 160                  | 177   | 160   | 154   | 148   | 141   | 135   | 127   | 120   |
| 175                  | 194   | 175   | 168   | 161   | 154   | 146   | 138   | 126   |
| 200                  | 223   | 200   | 192   | 183   | 175   | 165   | 155   | 144   |
| 225                  | 245   | 225   | 218   | 211   | 203   | 196   | 180   | 162   |
| 250                  | 277   | 250   | 240   | 230   | 220   | 209   | 198   | 180   |
| <b>EZC400/630</b>    |       |       |       |       |       |       |       |       |
| 250                  | 269   | 250   | 244   | 238   | 231   | 225   | 219   | 213   |
| 320                  | 343   | 320   | 312   | 303.6 | 295   | 286   | 277   | 267.7 |
| 400                  | 429   | 400   | 390   | 379.3 | 368.5 | 357.3 | 345.8 | 334   |
| 500                  | 530   | 500   | 489.6 | 479   | 468   | 457   | 445.4 | 433.6 |
| 600                  | 637   | 600   | 587   | 574   | 560.6 | 547   | 532.7 | 518   |



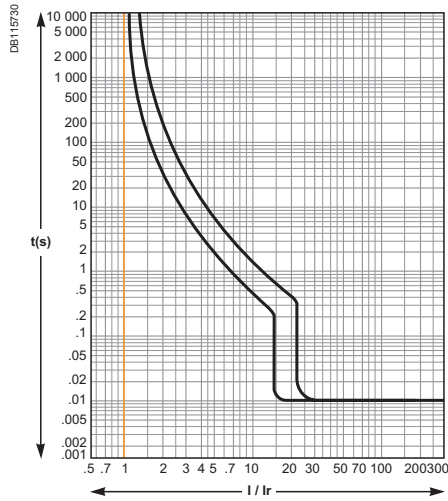


## Installation guide

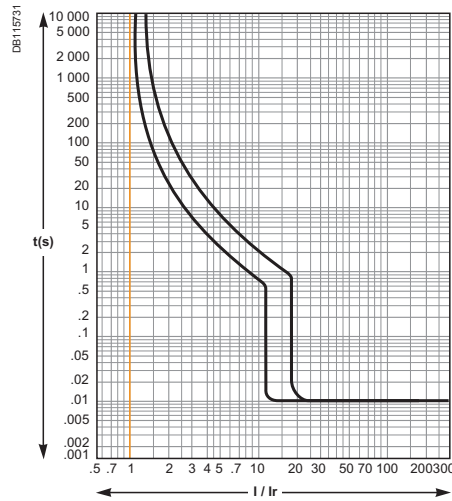
# Tripping curves

### EasyPact EZC100 TM trip units

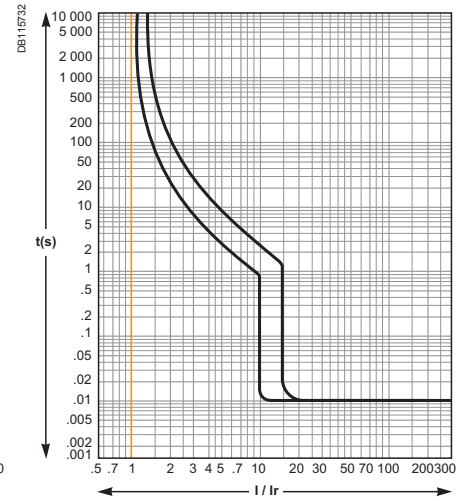
15-16 A



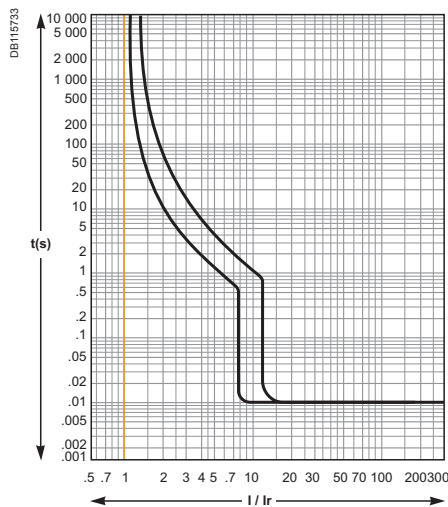
20 A



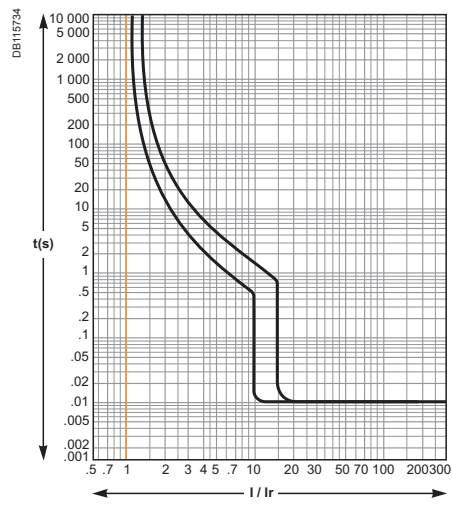
25 A



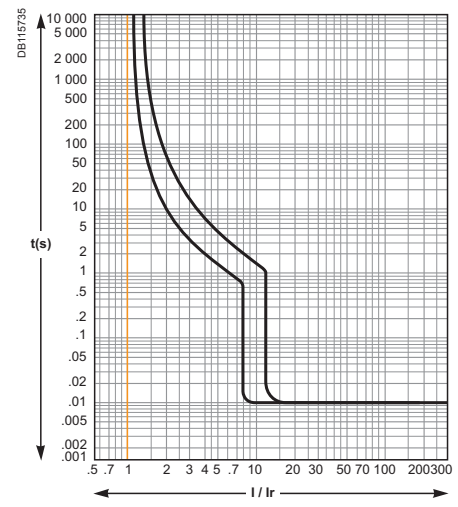
30-32 A



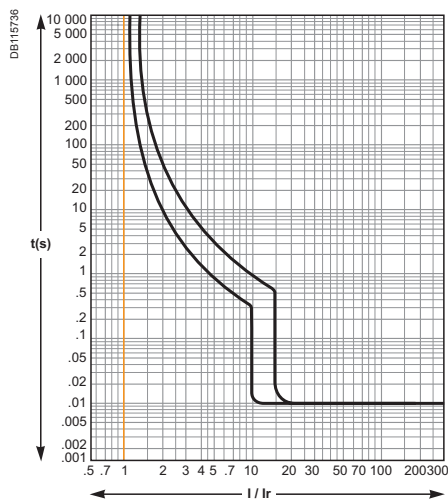
40 A



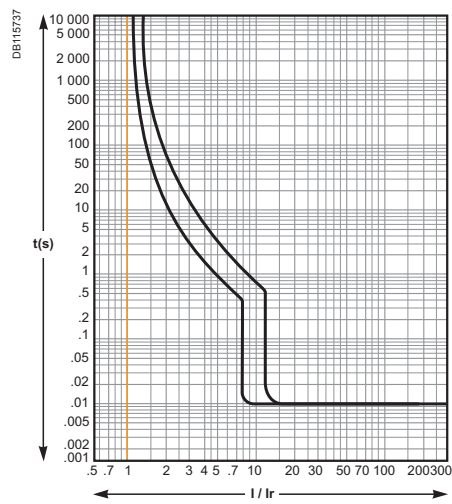
45-50 A



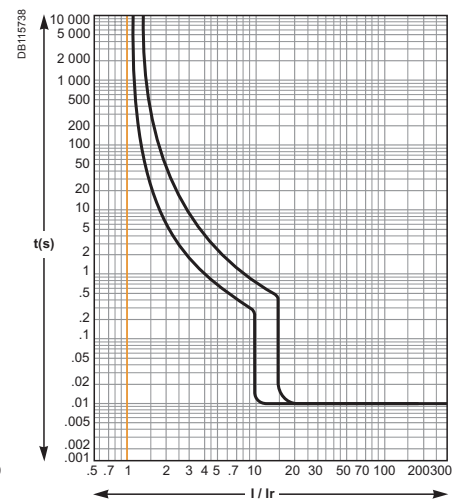
60-63 A

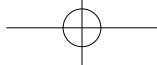


75 A



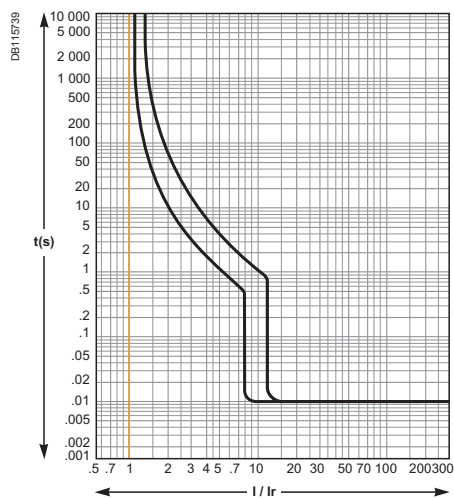
80 A





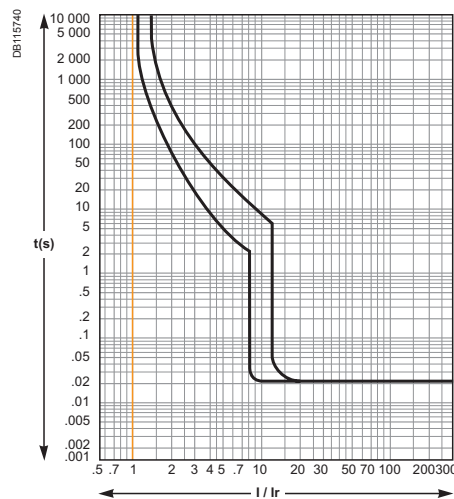
## EasyPact EZC100 TM trip units (cont.)

100 A

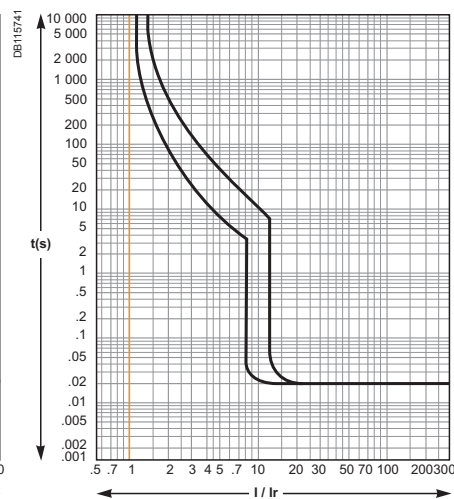


## EasyPact EZC250 TM trip units

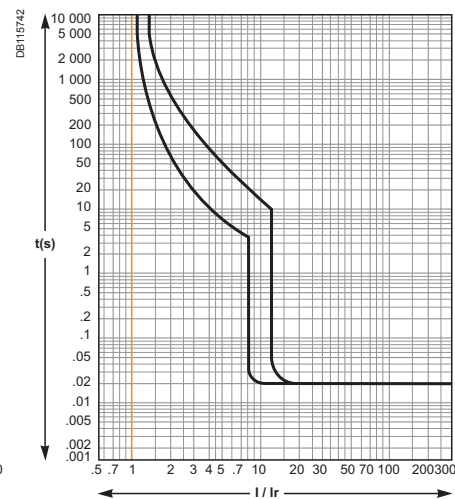
63-80-100-125 A



150-160-175-200 A

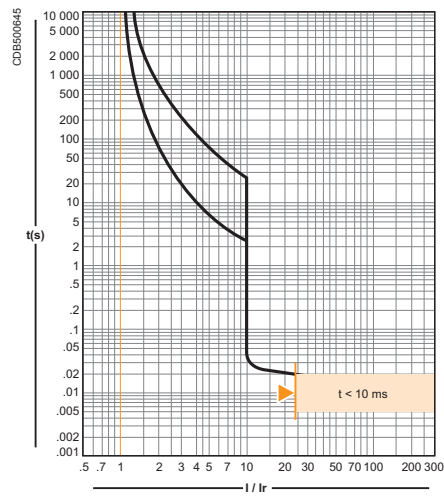


225-250 A



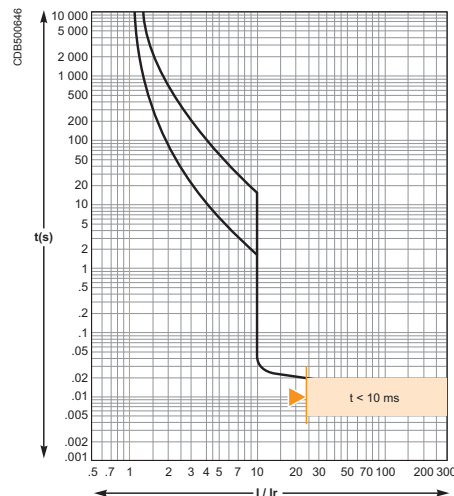
## EasyPact EZC400 TM trip units

320-350-400 A

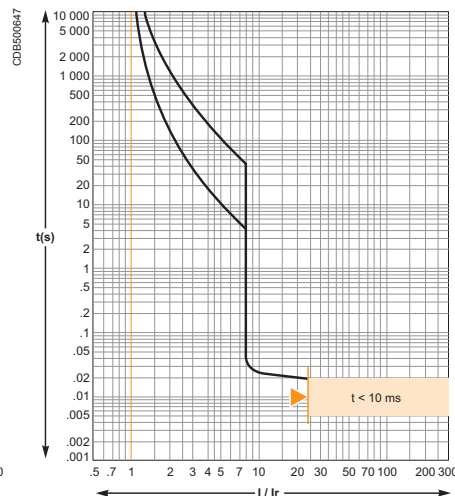


## EasyPact EZC630 TM trip units

TM500D

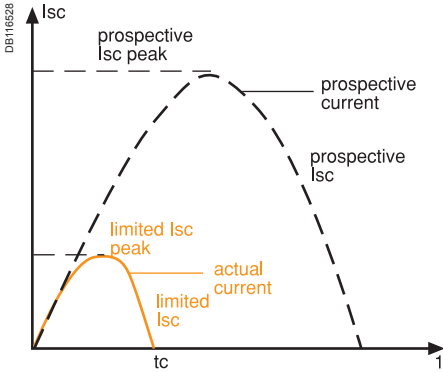


TM600D



Reflex tripping.

The limiting capacity of a circuit breaker is its aptitude to limit short-circuit currents.



The exceptional limiting capacity of the EasyPact EZC range greatly reduces the forces created by fault currents in devices. The result is a major increase in breaking performance.

The  $I_{cs}$  value, defined by IEC standard 60947-2, is guaranteed by tests comprising the following operations:

- break three times consecutively a fault current equal from 25% to 100% of  $I_{cu}$
- check that the device continues to function normally:
  - it conducts the rated current without abnormal temperature rises
  - protection functions perform within the limits specified by the standard
  - suitability for isolation is not impaired.

## Longer service life of electrical installations

Current-limiting circuit breakers greatly reduce the negative effects of short-circuits on installations.

### Thermal effects

Less temperature rise in conductors, therefore longer service life for cables.

### Mechanical effects

Reduced electrodynamic forces, therefore less risk of electrical contacts or busbars being deformed or broken.

### Electromagnetic effects

Less disturbances for measuring devices located near electrical circuits.

## Economy by means of cascading

Cascading is a technique directly derived from current limiting. Circuit breakers with breaking capacities less than the prospective short-circuit current may be installed downstream of a limiting circuit breaker. The breaking capacity is reinforced by the limiting capacity of the upstream device.

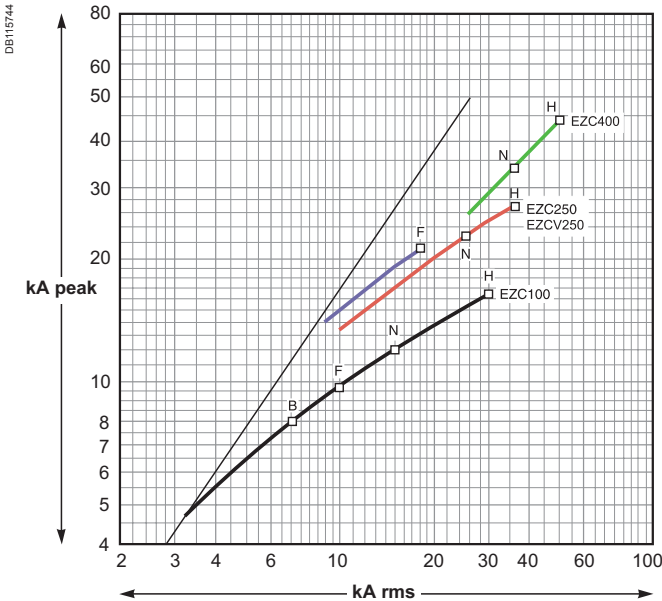
It follows that substantial savings can be made on downstream equipment and enclosures.

## Current-limiting curves

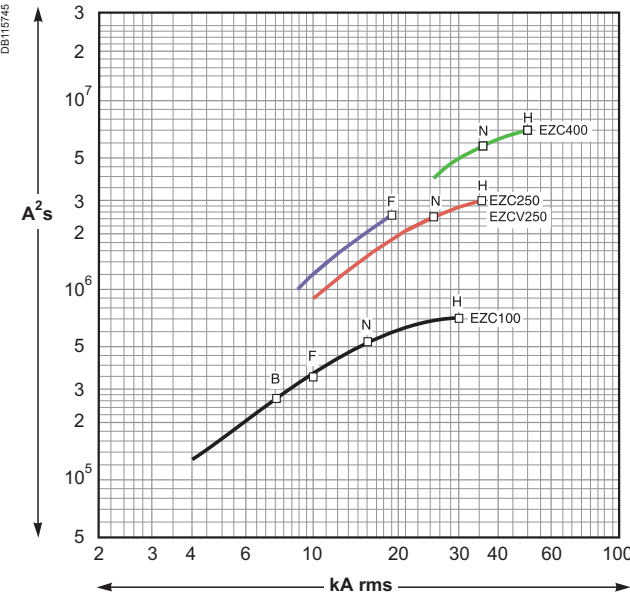
The current-limiting capacity of a circuit breaker is expressed by two curves which are a function of the prospective short-circuit current (the current which would flow if no protection devices were installed):

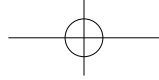
- the actual peak current (limited current),
- thermal stress ( $A^2s$ ), i.e. the energy dissipated by the short-circuit in a conductor with a resistance of  $1 \Omega$ .

Current limiting curves 380/415 V AC



Thermal-stress curves 380/415 V AC





# Cascading

## What is cascading?

Cascading is the use of the current limiting capacity of circuit breakers at a given point to permit installation of lower-rated and therefore lower-cost circuit breakers downstream.

The upstream compact circuit breakers acts as a barrier against short-circuit currents. In this way, downstream circuit breakers with lower breaking capacities than the prospective short-circuit (at their point of installation) operate under their normal breaking conditions.

Since the current is limited throughout the circuit controlled by the limiting circuit breaker, cascading applies to all switchgear downstream. It is not restricted to two consecutive devices.

## General use of cascading

With cascading, the devices can be installed in different switchboards. Thus, in general, cascading refers to any combination of circuit breakers where a circuit breaker with a breaking capacity less than the prospective  $I_{sc}$  at its point of installation can be used. Of course, the breaking capacity of the upstream circuit breaker must be greater than or equal to the prospective short-circuit current at its point of installation.

The combination of two circuit breakers in cascading configuration is covered by the IEC 60947-2.

## Coordination between circuit breakers

The use of a protective device possessing a breaking capacity less than the prospective short-circuit current at its installation point is permitted as long as another device is installed upstream with at least the necessary breaking capacity. In this case, the characteristics of the two devices must be coordinated in such a way that the energy let through by the upstream device is not more than that which can be withstood by the downstream device and the cables protected by these devices without damage.

Cascading can only be checked by laboratory tests and the possible combinations can be specified only by the circuit breaker manufacturer.

## 220/240 V network downstream from a 380/415 V network

For 1P + N or 2P circuit breakers connected between the phase and neutral on a 380/415 V network, with a TT or TNS neutral system, consult the 220/240 V cascading table to determine cascading possibilities between upstream and downstream circuit breakers.

## Economy by means of cascading

Thanks to cascading, circuit breakers with breaking capacities less than the prospective short-circuit current may be installed downstream from a current limiting circuit breaker.

It follows that substantial savings can be made on downstream switchgear and enclosures.

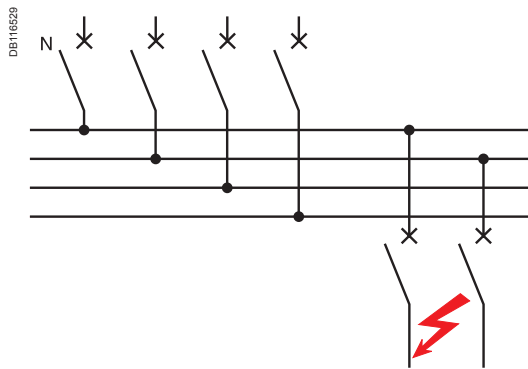
## Cascading tables

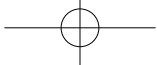
Schneider Electric cascading tables are:

- drawn up on the basis of calculations (comparison between the energy limited by the upstream device and the maximum permissible thermal stress for the downstream device)

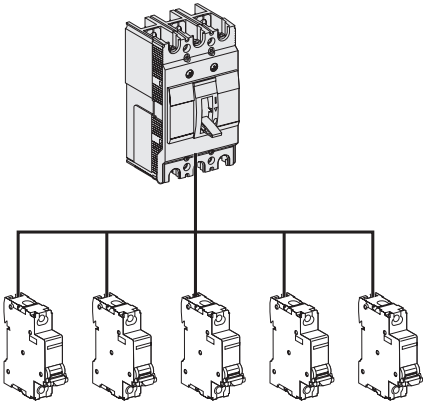
- verified experimentally in accordance with IEC standard 60947-2.

For distribution systems with 220/240 V, 380/415 V and 440 V between phases, the tables of the following pages indicate cascading possibilities between upstream Compact/EasyPact EZC and downstream Multi 9 and EasyPact EZC circuit breakers.





DB127584



Network 220/240 V

| Upstream                |    | EZC100F                    | EZC100N | EZC100H |
|-------------------------|----|----------------------------|---------|---------|
| Breaking capacity kArms |    | 25                         | 25      | 100     |
| Downstream              |    | Enhanced breaking capacity |         |         |
| iC60a                   | 10 | 25                         | 25      | 50      |
| iC60N                   | 20 | 25                         | 25      | 65      |
| iC60H                   | 30 | -                          | -       | 65      |

| Upstream                 |     | EZC250F                    | EZC250N<br>EZCV250N | EZC250H<br>EZCV250H | NSX250H |
|--------------------------|-----|----------------------------|---------------------|---------------------|---------|
| Breaking capacity kA rms |     | 25                         | 50                  | 85                  | 100     |
| Downstream               |     | Enhanced breaking capacity |                     |                     |         |
| EZC100B                  | 10  | -                          | -                   | 15                  | 20      |
| EZC100F                  | 25  | -                          | 30                  | 30                  | 50      |
| EZC100N                  | 25  | -                          | 30                  | 36                  | 50      |
| EZC100H                  | 100 | -                          | -                   | -                   | -       |

| Upstream                 |     | EZC400N                    | EZC400H | NB400<br>NB630 | NSX400N<br>NSX630N | NSX400H<br>NSX630H |
|--------------------------|-----|----------------------------|---------|----------------|--------------------|--------------------|
| Breaking capacity kA rms |     | 40                         | 70      | 85             | 85                 | 100                |
| Downstream               |     | Enhanced breaking capacity |         |                |                    |                    |
| EZC100B                  | 10  | 20                         | 20      | 20             | 20                 | 20                 |
| EZC100F                  | 25  | 40                         | 40      | 50             | 50                 | 50                 |
| EZC100N                  | 25  | 40                         | 40      | 50             | 50                 | 50                 |
| EZC100H                  | 100 | -                          | -       | -              | -                  | -                  |
| EZC250F                  | 25  | 40                         | 40      | 50             | 50                 | 50                 |
| EZC/EZCV250N             | 50  | -                          | 70      | 85             | 85                 | 85                 |
| EZC/EZCV250H             | 85  | -                          | 100     | -              | -                  | 100                |

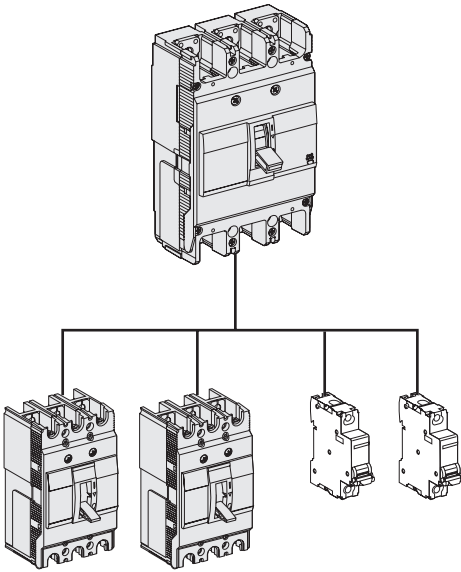
Network 380/415 V

| Upstream                 |    | EZC100F                    | EZC100N | EZC100H |
|--------------------------|----|----------------------------|---------|---------|
| Breaking capacity kA rms |    | 10                         | 15      | 30      |
| Downstream               |    | Enhanced breaking capacity |         |         |
| iC60a                    | 6  | 10                         | 15      | 15      |
| iC60N                    | 10 | -                          | 15      | 15      |
| iC60H                    | 15 | -                          | -       | 15      |

| Upstream                 |     | EZC250F                    | EZC250N<br>EZCV250N | EZC250H<br>EZCV250H | NSX250H |
|--------------------------|-----|----------------------------|---------------------|---------------------|---------|
| Breaking capacity kA rms |     | 18                         | 25                  | 36                  | 70      |
| Downstream               |     | Enhanced breaking capacity |                     |                     |         |
| EZC100B                  | 7.5 | -                          | -                   | -                   | 15      |
| EZC100F                  | 10  | -                          | 15                  | 15                  | 30      |
| EZC100N                  | 15  | -                          | 20                  | 25                  | 50      |
| EZC100H                  | 30  | -                          | -                   | 36                  | 70      |

| Upstream                 |     | EZC400N                    | EZC400H | NB400<br>NB630 | NSX400N<br>NSX630N | NSX400H<br>NSX630H |
|--------------------------|-----|----------------------------|---------|----------------|--------------------|--------------------|
| Breaking capacity kA rms |     | 36                         | 50      | 30             | 50                 | 70                 |
| Downstream               |     | Enhanced breaking capacity |         |                |                    |                    |
| EZC100B                  | 7.5 | -                          | -       | -              | -                  | -                  |
| EZC100F                  | 10  | -                          | -       | -              | -                  | -                  |
| EZC100N                  | 15  | 20                         | 20      | 20             | 20                 | 30                 |
| EZC100H                  | 30  | 36                         | 36      | -              | 45                 | 50                 |
| EZC250F                  | 18  | 20                         | 20      | 20             | 20                 | 20                 |
| EZC/EZCV250N             | 25  | 36                         | 36      | 30             | 36                 | 40                 |
| EZC/EZCV250H             | 36  | -                          | -       | -              | 45                 | 50                 |

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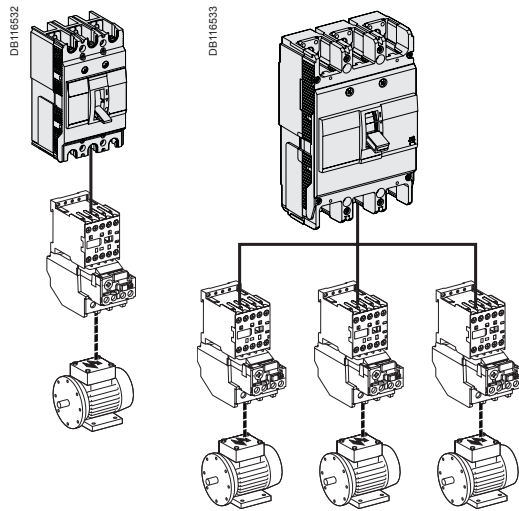
Network 440 V

| Upstream                 |     | EZC250F                    | EZC250N<br>EZCV250N | EZC250H<br>EZCV250H |
|--------------------------|-----|----------------------------|---------------------|---------------------|
| Breaking capacity kA rms |     | 15                         | 20                  | 25                  |
| Downstream               |     | Enhanced breaking capacity |                     |                     |
| EZC100B                  | 5   | -                          | -                   | -                   |
| EZC100F                  | 7.5 | -                          | -                   | -                   |
| EZC100N                  | 10  | -                          | 15                  | 15                  |
| EZC100H                  | 20  | -                          | -                   | -                   |

| Upstream                 |     | EZC400N                    | EZC400H | NB400<br>NB630 | NSX400N<br>NSX630N | NSX400H<br>NSX630H |
|--------------------------|-----|----------------------------|---------|----------------|--------------------|--------------------|
| Breaking capacity kA rms |     | 36                         | 50      | 30             | 42                 | 65                 |
| Downstream               |     | Enhanced breaking capacity |         |                |                    |                    |
| EZC100B                  | 5   | -                          | -       | -              | -                  | -                  |
| EZC100F                  | 7.5 | -                          | -       | -              | -                  | -                  |
| EZC100N                  | 10  | 15                         | 15      | 15             | 15                 | 25                 |
| EZC100H                  | 25  | -                          | 30      | 30             | 30                 | 30                 |
| EZC250F                  | 15  | 20                         | 20      | -              | -                  | -                  |
| EZC/EZCV250N             | 20  | -                          | 25      | 25             | 25                 | 30                 |
| EZC/EZCV250H             | 25  | -                          | 30      | 30             | 30                 | 30                 |







A circuit supplying a motor may include one, two, three or four switchgear or controlgear devices fulfilling one or more functions.

**When a number of devices are used, they must be coordinated to ensure optimum operation of the motor.**

Protection of a motor circuit involves a number of parameters that depend on:

- the application (type of machine driven, operating safety, starting frequency, etc.)
- the level of service continuity imposed by the load or the application
- the applicable standards to ensure protection of life and property.

The necessary electrical functions are of very different natures:

- short circuit protection
- overload protection dedicated for motor
- control (generally with high endurance levels)
- isolation.

## Protection functions

### Disconnection functions:

Isolate a motor circuit prior to maintenance operations.

### Short-circuit protection:

Protect the starter and the cables against major overcurrents ( $> 10 I_n$ ).

This type of protection is provided by a circuit breaker.

### Control:

Start and stop the motor and, if applicable:

- gradual acceleration
- speed control.

### Overload protection:

Protect the starter and the cables against minor overcurrents ( $< 10 I_n$ ).

Thermal relays provide protection against this type of fault. They may be:

- integrated in the short-circuit protective device
- separate.

### Additional specific protection:

- limitative fault protection (while the motor is running)
- preventive fault protection (monitoring of motor insulation with motor off).

### Overloads ( $I < 10 I_n$ )

An overload may be caused by:

- an electrical problem, for instance on the mains (loss of a phase, voltage outside tolerances, etc.)
- a mechanical problem, for instance excessive torque due to abnormally high demands by the process or motor damage (bearing vibrations, etc.).

A further consequence of these two origins is excessively long starting.

### Impedance short-circuit ( $10 < I < 50 I_n$ )

Deterioration of motor-winding insulation is the primary cause.

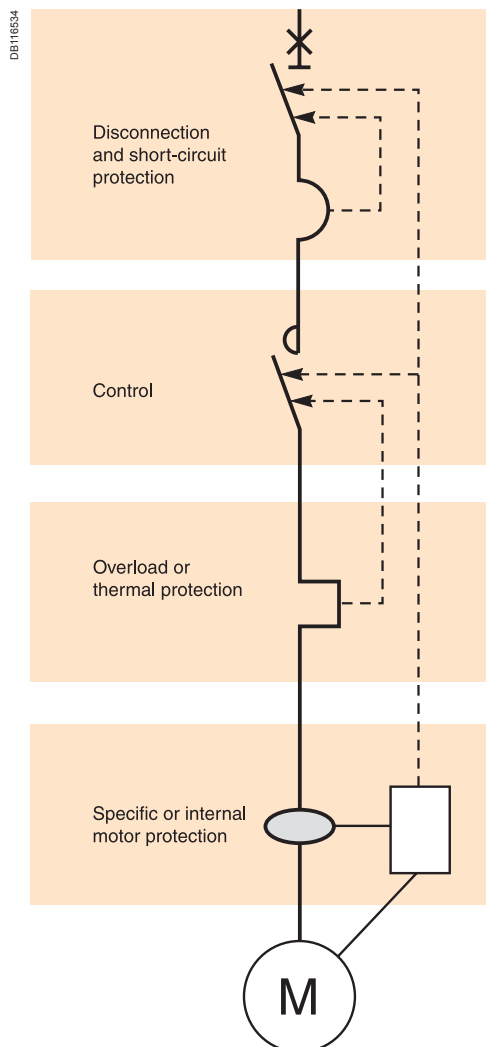
### Short-circuit ( $I > 50 I_n$ )

This type of fault is relatively rare. A possible cause may be a connection error during maintenance.

### Protection against insulation faults

This type of protection may be provided by:

- a residual current device (RCD)
- an insulation monitoring device (IMD).

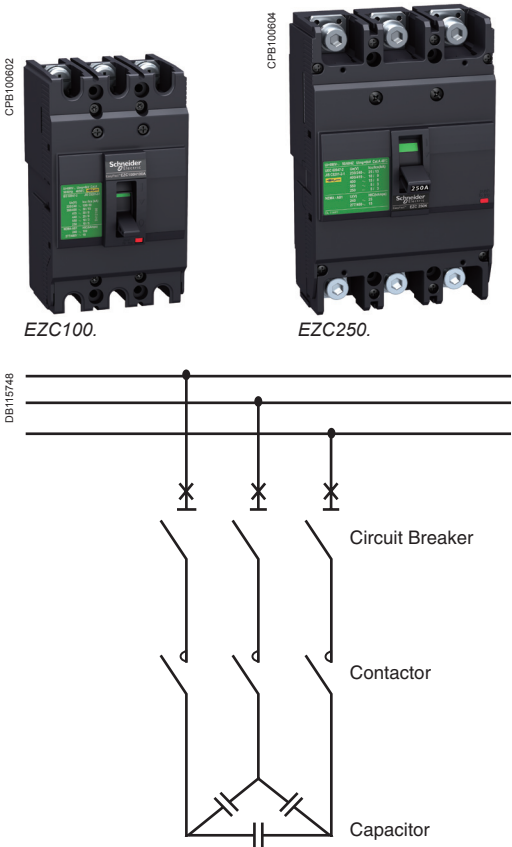
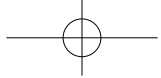






| Motors<br>P (kW) | 220/230 V<br>I (A) | 240 V<br>I (A) | Circuit breakers |                  | 380/400 V<br>I (A) | 415 V<br>I (A) | Circuit breakers |                  | 440 V<br>I (A) | Circuit breakers |                  |
|------------------|--------------------|----------------|------------------|------------------|--------------------|----------------|------------------|------------------|----------------|------------------|------------------|
|                  |                    |                | Type             | Rating<br>In (A) |                    |                | Type             | Rating<br>In (A) |                | Type             | Rating<br>In (A) |
| 0.37             | 2                  | 1.8            | EZC100           | 20               | 1.2                | 1.1            | EZC100           | 20               | 1              | EZC100           | 20               |
| 0.55             | 2.8                | 2.6            |                  | 20               | 1.6                | 1.5            |                  | 20               | 1.4            |                  | 20               |
| 0.75             | 3.5                | 3.2            |                  | 20               | 2                  | 1.8            |                  | 20               | 1.7            |                  | 20               |
| 1.1              | 5                  | 4.5            |                  | 20               | 2.8                | 2.6            |                  | 20               | 2.4            |                  | 20               |
| 1.5              | 6.5                | 6              |                  | 20               | 3.7                | 3.4            |                  | 20               | 3.1            |                  | 20               |
| 2.2              | 9                  | 8              |                  | 20               | 5.3                | 4.8            |                  | 20               | 4.5            |                  | 20               |
| 3                | 12                 | 11             |                  | 20               | 7                  | 6.5            |                  | 20               | 5.8            |                  | 20               |
| 4                | 15                 | 14             |                  | 20               | 9                  | 8.2            |                  | 20               | 8              |                  | 20               |
| 5.5              | 21                 | 19             |                  | 40               | 12                 | 11             |                  | 20               | 10.5           |                  | 20               |
| 7.5              | 28                 | 25             |                  | 60               | 16                 | 14             |                  | 20               | 13.7           |                  | 20               |
| 10               | 36                 | 33             |                  | 60               | 21                 | 19             |                  | 40               | 19             |                  | 40               |
| 11               | 39                 | 36             |                  | 80               | 23                 | 21             |                  | 40               | 20             |                  | 40               |
| 15               | 52                 | 48             |                  | 80               | 30                 | 28             |                  | 60               | 26.5           |                  | 60               |
| 18.5             | 63                 | 59             |                  | 80               | 37                 | 34             |                  | 60               | 33             |                  | 60               |
| 22               | 75                 | 70             | EZC250           | 125              | 43                 | 40             |                  | 80               | 39             |                  | 60               |
| 30               | 100                | 95             |                  | 160              | 59                 | 55             | EZC250           | 125              | 52             |                  | 80               |
| 37               | 125                | 115            |                  | 250              | 72                 | 66             |                  | 150              | 63             | EZC250           | 125              |
| 45               | 150                | 140            |                  | 250              | 85                 | 80             |                  | 160              | 76             |                  | 150              |





### EasyPact EZC circuit breaker is suitable for capacitor protection following the rules below:

■ Inc = Nominal current of the capacitor

$$Inc = \frac{Qc}{U\sqrt{3}}$$

Inc = Nominal Current Capacitor (A)  
Qc = Reactive power (kVAR)  
U = Nominal Voltage (V)

■ Inb = Nominal current of the circuit breaker (EZC)

- Inb = 1.36 x Inc for standard equipment
- Inb = 1.5 x Inc for overrated type equipment
- Inb = 1.12 x Inc for detuned type equipment: 2.7 tuning
- Inb = 1.19 x Inc for detuned type equipment: 3.8 tuning
- Inb = 1.31 x Inc for detuned type equipment: 4.3 tuning
- the short-circuit (magnetic) protection-setting thresholds must enable passage of the energising transients: 10 x Inc for standard, overrated and detuned type equipment.

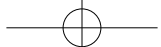
■ Icu = Ultimate breaking capacity of the circuit breaker (EZC)

Icu short-circuit level is given by the installation.

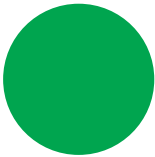
### Example:

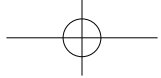
Table at 400 V AC - 3 phases 50 Hz for standard equipment.

| Reactive power<br>(kVAR) | Inc<br>(A) | Inb<br>(A) | Breaking capacity to Circuit Breaker |             |
|--------------------------|------------|------------|--------------------------------------|-------------|
|                          |            |            | 15 kA                                | 30 kA       |
| 7.5                      | 11         | 15         | EZC100N3015                          | EZC100H3015 |
| 10                       | 14         | 20         | EZC100N3020                          | EZC100H3020 |
| 15                       | 22         | 30         | EZC100N3030                          | EZC100H3030 |
| 20                       | 29         | 40         | EZC100N3040                          | EZC100H3040 |
| 30                       | 43         | 60         | EZC100N3060                          | EZC100H3060 |
| 40                       | 58         | 80         | EZC100N3080                          | EZC100H3080 |
| 50                       | 72         | 100        | EZC100N3100                          | EZC100H3100 |
| 60                       | 87         | 118        | EZC250F3125                          | EZC250H3125 |
| 75                       | 108        | 147        | EZC250F3150                          | EZC250H3150 |
| 100                      | 144        | 196        | EZC250F3200                          | EZC250H3200 |



|                                      |      |
|--------------------------------------|------|
| <i>Presentation</i>                  | //   |
| <i>Functions and characteristics</i> | A-1  |
| <i>Busbars</i>                       | B-1  |
| <i>Installation guide</i>            | C-1  |
| <b>EZC100N/H 1P/2P</b>               |      |
| Circuit breaker                      | D-2  |
| <b>EZC100B/F/N/H 3P</b>              |      |
| Circuit breaker                      | D-3  |
| <b>EZC100N/H 4P</b>                  |      |
| Circuit breaker                      | D-4  |
| <b>EZC100N/H/B/F</b>                 |      |
| Accessories                          | D-5  |
| <b>EZC250F/N/H 2P/3P</b>             |      |
| Circuit breaker                      | D-7  |
| <b>EZC250N/H 4P</b>                  |      |
| Circuit breaker                      | D-8  |
| <b>EZCV250N/H 3P/4P</b>              |      |
| Earth-leakage circuit breaker        | D-9  |
| <b>EZC250F/N/H, EZCV250N/H</b>       |      |
| Accessories                          | D-10 |
| <b>EZC400N/H 3P/4P</b>               |      |
| Circuit breaker                      | D-12 |
| <b>EZC630N/H 3P/4P</b>               |      |
| Circuit breaker                      | D-13 |
| <b>EZC400/630N/H</b>                 |      |
| Accessories                          | D-14 |
| <b>EasyPact EZC Busbar</b>           |      |
| Type-tested solution IEC 60439       | D-17 |

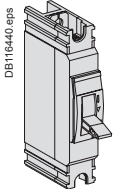




Catalogue numbers

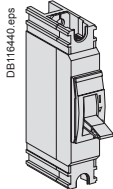
EZC100N/H 1P/2P  
Circuit breaker

EasyPact EZC100N 1P 18 kA 220/240 V  
With thermal magnetic trip unit



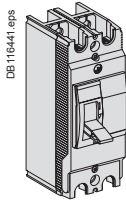
| Rating | 1P 1t       |
|--------|-------------|
| 15 A   | EZC100N1015 |
| 16 A   | EZC100N1016 |
| 20 A   | EZC100N1020 |
| 25 A   | EZC100N1025 |
| 30 A   | EZC100N1030 |
| 32 A   | EZC100N1032 |
| 40 A   | EZC100N1040 |
| 45 A   | EZC100N1045 |
| 50 A   | EZC100N1050 |
| 60 A   | EZC100N1060 |
| 63 A   | EZC100N1063 |
| 75 A   | EZC100N1075 |
| 80 A   | EZC100N1080 |
| 100 A  | EZC100N1100 |

EasyPact EZC100H 1P 25 kA - 2P 50 kA 220/240 V  
With thermal magnetic trip unit

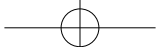


1P

| Rating | 1P 1t       | 2P 2t       |
|--------|-------------|-------------|
| 15 A   | EZC100H1015 | EZC100H2015 |
| 16 A   | EZC100H1016 | EZC100H2016 |
| 20 A   | EZC100H1020 | EZC100H2020 |
| 25 A   | EZC100H1025 | EZC100H2025 |
| 30 A   | EZC100H1030 | EZC100H2030 |
| 32 A   | EZC100H1032 | EZC100H2032 |
| 40 A   | EZC100H1040 | EZC100H2040 |
| 45 A   | EZC100H1045 | EZC100H2045 |
| 50 A   | EZC100H1050 | EZC100H2050 |
| 60 A   | EZC100H1060 | EZC100H2060 |
| 63 A   | EZC100H1063 | EZC100H2063 |
| 75 A   | EZC100H1075 | EZC100H2075 |
| 80 A   | EZC100H1080 | EZC100H2080 |
| 100 A  | EZC100H1100 | EZC100H2100 |



2P

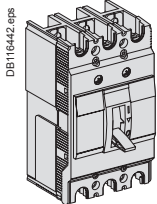


# EZC100B/F/N/H 3P

## Circuit breaker

### EasyPact EZC100B 3P 7.5 kA 400/415 V

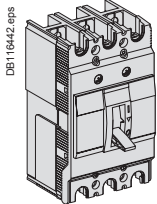
With thermal magnetic trip unit



| Rating | 3P 3t       |
|--------|-------------|
| 15 A   | EZC100B3015 |
| 16 A   | EZC100B3016 |
| 20 A   | EZC100B3020 |
| 25 A   | EZC100B3025 |
| 30 A   | EZC100B3030 |
| 32 A   | EZC100B3032 |
| 40 A   | EZC100B3040 |
| 45 A   | EZC100B3045 |
| 50 A   | EZC100B3050 |
| 60 A   | EZC100B3060 |

### EasyPact EZC100F 3P 10 kA 400/415 V

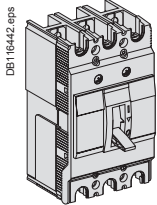
With thermal magnetic trip unit



| Rating | 3P 3t       |
|--------|-------------|
| 15 A   | EZC100F3015 |
| 16 A   | EZC100F3016 |
| 20 A   | EZC100F3020 |
| 25 A   | EZC100F3025 |
| 30 A   | EZC100F3030 |
| 32 A   | EZC100F3032 |
| 40 A   | EZC100F3040 |
| 45 A   | EZC100F3045 |
| 50 A   | EZC100F3050 |
| 60 A   | EZC100F3060 |
| 63 A   | EZC100F3063 |
| 75 A   | EZC100F3075 |
| 80 A   | EZC100F3080 |
| 100 A  | EZC100F3100 |

### EasyPact EZC100N 3P 15 kA 400/415 V

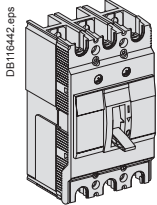
With thermal magnetic trip unit



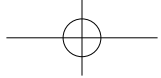
| Rating | 3P 3t       |
|--------|-------------|
| 15 A   | EZC100N3015 |
| 16 A   | EZC100N3016 |
| 20 A   | EZC100N3020 |
| 25 A   | EZC100N3025 |
| 30 A   | EZC100N3030 |
| 32 A   | EZC100N3032 |
| 40 A   | EZC100N3040 |
| 45 A   | EZC100N3045 |
| 50 A   | EZC100N3050 |
| 60 A   | EZC100N3060 |
| 63 A   | EZC100N3063 |
| 75 A   | EZC100N3075 |
| 80 A   | EZC100N3080 |
| 100 A  | EZC100N3100 |

### EasyPact EZC100H 3P 30 kA 400/415 V

With thermal magnetic trip unit



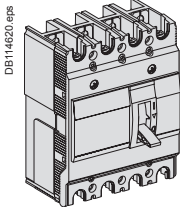
| Rating | 3P 3t       |
|--------|-------------|
| 15 A   | EZC100H3015 |
| 16 A   | EZC100H3016 |
| 20 A   | EZC100H3020 |
| 25 A   | EZC100H3025 |
| 30 A   | EZC100H3030 |
| 32 A   | EZC100H3032 |
| 40 A   | EZC100H3040 |
| 45 A   | EZC100H3045 |
| 50 A   | EZC100H3050 |
| 60 A   | EZC100H3060 |
| 63 A   | EZC100H3063 |
| 75 A   | EZC100H3075 |
| 80 A   | EZC100H3080 |
| 100 A  | EZC100H3100 |



# EZC100N/H 4P

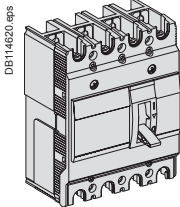
Circuit breaker

**EasyPact EZC100N 4P 15 kA 400/415 V**  
With thermal magnetic trip unit

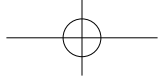


| Rating | 4P 3t       |
|--------|-------------|
| 15 A   | EZC100N4015 |
| 16 A   | EZC100N4016 |
| 20 A   | EZC100N4020 |
| 25 A   | EZC100N4025 |
| 30 A   | EZC100N4030 |
| 32 A   | EZC100N4032 |
| 40 A   | EZC100N4040 |
| 45 A   | EZC100N4045 |
| 50 A   | EZC100N4050 |
| 60 A   | EZC100N4060 |
| 63 A   | EZC100N4063 |
| 75 A   | EZC100N4075 |
| 80 A   | EZC100N4080 |
| 100 A  | EZC100N4100 |

**EasyPact EZC100H 4P 30 kA 400/415 V**  
With thermal magnetic trip unit



| Rating | 4P 3t       |
|--------|-------------|
| 15 A   | EZC100H4015 |
| 16 A   | EZC100H4016 |
| 20 A   | EZC100H4020 |
| 25 A   | EZC100H4025 |
| 30 A   | EZC100H4030 |
| 32 A   | EZC100H4032 |
| 40 A   | EZC100H4040 |
| 45 A   | EZC100H4045 |
| 50 A   | EZC100H4050 |
| 60 A   | EZC100H4060 |
| 63 A   | EZC100H4063 |
| 75 A   | EZC100H4075 |
| 80 A   | EZC100H4080 |
| 100 A  | EZC100H4100 |



# EZC100N/H/B/F

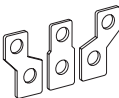
## Accessories

### Connection accessories

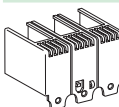
#### Cable lugs

|                                                                                                   |        |                                       |          |            |
|---------------------------------------------------------------------------------------------------|--------|---------------------------------------|----------|------------|
| <br>DB100821.eps | ≤ 50 A | Cables from 2.5 to 16 mm <sup>2</sup> | Set of 2 | EZALUG0502 |
|                                                                                                   |        |                                       | Set of 3 | EZALUG0503 |
| <br>DB100822.eps | > 50 A | Cables from 10 to 50 mm <sup>2</sup>  | Set of 2 | EZALUG1002 |
|                                                                                                   |        |                                       | Set of 3 | EZALUG1003 |

#### Spreaders

|                                                                                                   |                          |          |           |
|---------------------------------------------------------------------------------------------------|--------------------------|----------|-----------|
| <br>DB111674.eps | Spreaders for 3P breaker | Set of 3 | EZASPDR3P |
|                                                                                                   | Spreaders for 4P breaker | Set of 4 | EZASPDR4P |

#### Terminal shields

|                                                                                                    |                                 |          |           |
|----------------------------------------------------------------------------------------------------|---------------------------------|----------|-----------|
| <br>DB100824.eps | Terminal shields for 3P breaker | Set of 2 | EZATSHD3P |
|                                                                                                    | Terminal shields for 4P breaker | Set of 2 | EZATSHD4P |
|                 |                                 |          |           |

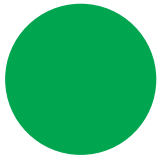
#### Phase barriers

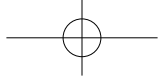
|                                                                                                     |                |          |         |
|-----------------------------------------------------------------------------------------------------|----------------|----------|---------|
| <br>DB100826.eps | Phase barriers | Set of 2 | EZAFOB2 |
|-----------------------------------------------------------------------------------------------------|----------------|----------|---------|

### Electrical auxiliaries

#### Indication contacts

|                                                                                                     |                                           |         |
|-----------------------------------------------------------------------------------------------------|-------------------------------------------|---------|
| <br>DB111662.eps | Auxiliary switch (AX)                     | EZAUX10 |
|                                                                                                     |                                           |         |
| <br>DB111663.eps | Alarm switch (AL)                         | EZAUX01 |
|                                                                                                     |                                           |         |
| <br>DB111669.eps | Auxiliary switch + alarm switch (AX + AL) | EZAUX11 |



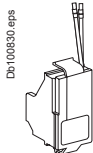


Catalogue numbers

EZC100N/H/B/F (cont.)  
Accessories (cont.)

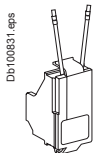
Electrical auxiliaries (cont.)

Voltage releases



Shunt trip (SHT)

|    | Voltage   | MX/SHT      |
|----|-----------|-------------|
| AC | 100-130 V | EZASHT100AC |
|    | 200-277 V | EZASHT200AC |
|    | 380-480 V | EZASHT380AC |
| DC | 24 V      | EZASHT024DC |
|    | 48 V      | EZASHT048DC |



Under voltage release (UVR)

|    | Voltage   | MN/UVR      |
|----|-----------|-------------|
| AC | 110-130 V | EZAUVR110AC |
|    | 200-240 V | EZAUVR200AC |
|    | 380-415 V | EZAUVR380AC |
| DC | 24 V      | EZAUVR024DC |
|    | 48 V      | EZAUVR048DC |

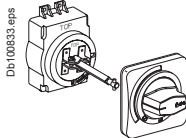
Rotary handles

Direct rotary handle (for 3/4P breaker)



|                                   |            |
|-----------------------------------|------------|
| Direct rotary handle (black)      | EZAROTDS   |
| Direct rotary handle (red/yellow) | EZAROTDSRY |

Extended rotary handle (for 3/4P breaker)



|                                     |           |
|-------------------------------------|-----------|
| Extended rotary handle (black)      | EZAROTE   |
| Extended rotary handle (red/yellow) | EZAROTERY |

Locks

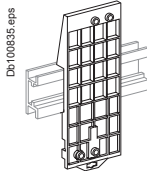
Padlocking system



|                   |         |
|-------------------|---------|
| Padlocking system | EZALOCK |
|-------------------|---------|

Installation accessory

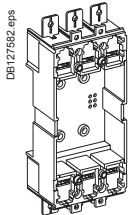
DIN rail adaptor



|                                        |         |
|----------------------------------------|---------|
| For 2 x 1P or 1 x 2P or 1 x 3P breaker | EZADINR |
| Note: for 4P breaker, use 2 adaptors   |         |

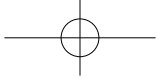
Plug-in

Plug-in 100 A



|                                        |           |
|----------------------------------------|-----------|
| Kit, plug-in base 3P 15 A-50 A         | EZAPLUG3L |
| Kit, plug-in base 3P 60 A-100 A        | EZAPLUG3H |
| Fishbone connectors set of 3           | EZAFSHB3  |
| Plug-in connectors 15 A-50 A set of 2  | EZAPCON1L |
| Plug-in connectors 60 A-100 A set of 2 | EZAPCON1H |





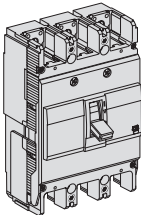
# EZC250F/N/H 2P/3P

## Circuit breaker

### EasyPact EZC250F 3P 18 kA 400/415 V

With thermal magnetic trip unit

DB111751.eps

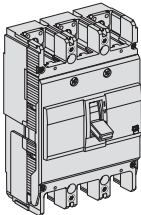


| Rating | 3P 3t       |
|--------|-------------|
| 100 A  | EZC250F3100 |
| 125 A  | EZC250F3125 |
| 150 A  | EZC250F3150 |
| 160 A  | EZC250F3160 |
| 175 A  | EZC250F3175 |
| 200 A  | EZC250F3200 |
| 225 A  | EZC250F3225 |
| 250 A  | EZC250F3250 |

### EasyPact EZC250N 3P 25 kA 400/415 V

With thermal magnetic trip unit

DB111751.eps

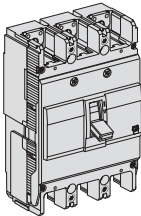


| Rating | 3P 3t       |
|--------|-------------|
| 100 A  | EZC250N3100 |
| 125 A  | EZC250N3125 |
| 150 A  | EZC250N3150 |
| 160 A  | EZC250N3160 |
| 175 A  | EZC250N3175 |
| 200 A  | EZC250N3200 |
| 225 A  | EZC250N3225 |
| 250 A  | EZC250N3250 |

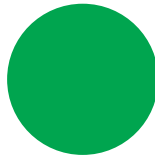
### EasyPact EZC250H 2/3P 36 kA 400/415 V

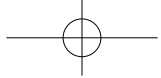
With thermal magnetic trip unit

DB111751.eps



| Rating | 2P 2t       | 3P 3t       |
|--------|-------------|-------------|
| 100 A  | EZC250H2100 | EZC250H3100 |
| 125 A  | EZC250H2125 | EZC250H3125 |
| 150 A  | EZC250H2150 | EZC250H3150 |
| 160 A  | EZC250H2160 | EZC250H3160 |
| 175 A  | EZC250H2175 | EZC250H3175 |
| 200 A  | EZC250H2200 | EZC250H3200 |
| 225 A  | EZC250H2225 | EZC250H3225 |
| 250 A  | EZC250H2250 | EZC250H3250 |



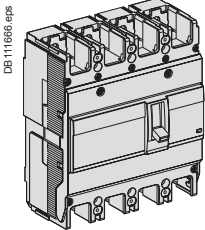


Catalogue numbers

EZC250N/H 4P  
Circuit breaker

EasyPact EZC250N 4P 25 kA 400/415 V

With thermal magnetic trip unit

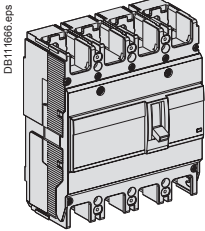


DE111666 eps

| Rating | 4P 3t       | 4P 4t        |
|--------|-------------|--------------|
| 63 A   | EZC250N4063 | EZC250N44063 |
| 80 A   | EZC250N4080 | EZC250N44080 |
| 100 A  | EZC250N4100 | EZC250N44100 |
| 125 A  | EZC250N4125 | EZC250N44125 |
| 150 A  | EZC250N4150 | EZC250N44150 |
| 160 A  | EZC250N4160 | EZC250N44160 |
| 175 A  | EZC250N4175 | EZC250N44175 |
| 200 A  | EZC250N4200 | EZC250N44200 |
| 225 A  | EZC250N4225 | EZC250N44225 |
| 250 A  | EZC250N4250 | EZC250N44250 |

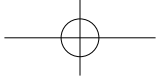
EasyPact EZC250H 4P 36 kA 400/415 V

With thermal magnetic trip unit



DE111666 eps

| Rating | 4P 3t       | 4P 4t        |
|--------|-------------|--------------|
| 63 A   | EZC250H4063 | EZC250H44063 |
| 80 A   | EZC250H4080 | EZC250H44080 |
| 100 A  | EZC250H4100 | EZC250H44100 |
| 125 A  | EZC250H4125 | EZC250H44125 |
| 150 A  | EZC250H4150 | EZC250H44150 |
| 160 A  | EZC250H4160 | EZC250H44160 |
| 175 A  | EZC250H4175 | EZC250H44175 |
| 200 A  | EZC250H4200 | EZC250H44200 |
| 225 A  | EZC250H4225 | EZC250H44225 |
| 250 A  | EZC250H4250 | EZC250H44250 |

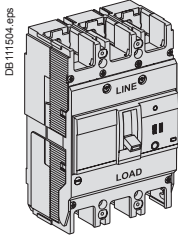


# EZCV250N/H 3P/4P

## Earth-leakage circuit breaker

### EasyPact EZCV250N 3P 25 kA 400/415 V

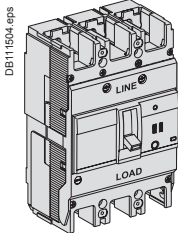
With thermal magnetic trip unit and earth leakage protection



| Rating | 3P 3t        |
|--------|--------------|
| 63 A   | EZCV250N3063 |
| 80 A   | EZCV250N3080 |
| 100 A  | EZCV250N3100 |
| 125 A  | EZCV250N3125 |
| 150 A  | EZCV250N3150 |
| 160 A  | EZCV250N3160 |
| 175 A  | EZCV250N3175 |
| 200 A  | EZCV250N3200 |
| 225 A  | EZCV250N3225 |
| 250 A  | EZCV250N3250 |

### EasyPact EZCV250H 3P 36 kA 400/415 V

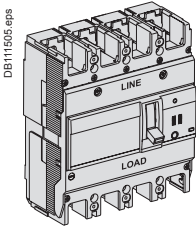
With thermal magnetic trip unit and earth leakage protection



| Rating | 3P 3t        |
|--------|--------------|
| 63 A   | EZCV250H3063 |
| 80 A   | EZCV250H3080 |
| 100 A  | EZCV250H3100 |
| 125 A  | EZCV250H3125 |
| 150 A  | EZCV250H3150 |
| 160 A  | EZCV250H3160 |
| 175 A  | EZCV250H3175 |
| 200 A  | EZCV250H3200 |
| 225 A  | EZCV250H3225 |
| 250 A  | EZCV250H3250 |

### EasyPact EZCV250N 4P 25 kA 400/415 V

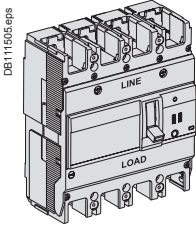
With thermal magnetic trip unit and earth leakage protection



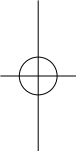
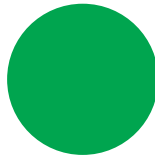
| Rating | 4P 3t        | 4P 4t         |
|--------|--------------|---------------|
| 63 A   | EZCV250N4063 | EZCV250N44063 |
| 80 A   | EZCV250N4080 | EZCV250N44080 |
| 100 A  | EZCV250N4100 | EZCV250N44100 |
| 125 A  | EZCV250N4125 | EZCV250N44125 |
| 150 A  | EZCV250N4150 | EZCV250N44150 |
| 160 A  | EZCV250N4160 | EZCV250N44160 |
| 175 A  | EZCV250N4175 | EZCV250N44175 |
| 200 A  | EZCV250N4200 | EZCV250N44200 |
| 225 A  | EZCV250N4225 | EZCV250N44225 |
| 250 A  | EZCV250N4250 | -             |

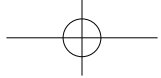
### EasyPact EZCV250H 4P 36 kA 400/415 V

With thermal magnetic trip unit and earth leakage protection



| Rating | 4P 3t        | 4P 4t         |
|--------|--------------|---------------|
| 63 A   | EZCV250H4063 | EZCV250H44063 |
| 80 A   | EZCV250H4080 | EZCV250H44080 |
| 100 A  | EZCV250H4100 | EZCV250H44100 |
| 125 A  | EZCV250H4125 | EZCV250H44125 |
| 150 A  | EZCV250H4150 | EZCV250H44150 |
| 160 A  | EZCV250H4160 | EZCV250H44160 |
| 175 A  | EZCV250H4175 | EZCV250H44175 |
| 200 A  | EZCV250H4200 | EZCV250H44200 |
| 225 A  | EZCV250H4225 | EZCV250H44225 |
| 250 A  | EZCV250H4250 | -             |



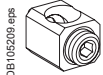


Catalogue numbers

EZC250F/N/H, EZCV250N/H  
Accessories

Connection accessories

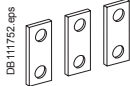
Cable lugs



DB105209.eps

|       |                                       |          |            |
|-------|---------------------------------------|----------|------------|
| 250 A | Cables from 42 to 152 mm <sup>2</sup> | Set of 3 | EZELUG2503 |
|       |                                       | Set of 4 | EZELUG2504 |

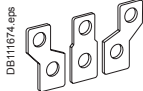
Terminal extensions



DB111752.eps

|                                   |          |          |
|-----------------------------------|----------|----------|
| Terminal extension for 3P breaker | Set of 3 | EZETEX   |
| Terminal extension for 4P breaker | Set of 4 | EZETEX4P |

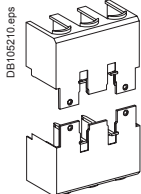
Spreaders



DB111674.eps

|                          |          |           |
|--------------------------|----------|-----------|
| Spreaders for 3P breaker | Set of 3 | EZESPDR3P |
| Spreaders for 4P breaker | Set of 4 | EZESPDR4P |

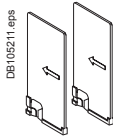
Terminal shields



DB105210.eps

|                                               |          |            |
|-----------------------------------------------|----------|------------|
| Terminal shields for 3P breaker (60 mm depth) | Set of 2 | EZETSHD3P  |
| Terminal shields for 3P breaker (68 mm depth) | Set of 2 | EZETSHD3PN |
| Terminal shields for 4P breaker (68 mm depth) | Set of 2 | EZETSHD4PN |

Phase barriers

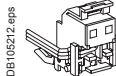


DB105211.eps

|                                |          |          |
|--------------------------------|----------|----------|
| Phase barriers for 60 mm depth | Set of 2 | EZEASB2  |
| Phase barriers for 68 mm depth | Set of 3 | EZEASB3N |

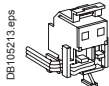
Electrical auxiliaries

Indication contacts



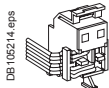
DB105212.eps

|                       |       |
|-----------------------|-------|
| Auxiliary switch (AX) | EZEAX |
|-----------------------|-------|



DB105213.eps

|                   |       |
|-------------------|-------|
| Alarm switch (AL) | EZEAL |
|-------------------|-------|



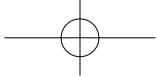
DB105214.eps

|                                           |         |
|-------------------------------------------|---------|
| Auxiliary switch + alarm switch (AX + AL) | EZEAXAL |
|-------------------------------------------|---------|



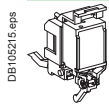
DB111687.eps

|                                                     |        |
|-----------------------------------------------------|--------|
| Earth-leakage alarm switch (ALV) (only for EZCV250) | EZEALV |
|-----------------------------------------------------|--------|

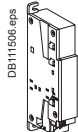


## Electrical auxiliaries (cont.)

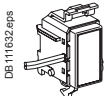
### Voltage releases



Shunt trip (SHT)



(UVR)



(UVRN)

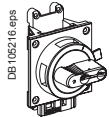
Under voltage release

|    | Voltage   | MX/SHT      |                       |
|----|-----------|-------------|-----------------------|
|    |           |             |                       |
| AC | 100-120 V | EZESHT100AC |                       |
|    | 120-130 V | EZESHT120AC |                       |
|    | 200-240 V | EZESHT200AC |                       |
|    | 277 V     | EZESHT277AC |                       |
|    | 380-440 V | EZESHT400AC |                       |
|    | 440-480 V | EZESHT440AC |                       |
| DC | 24 V      | EZESHT024DC |                       |
|    | 48 V      | EZESHT048DC |                       |
|    | Voltage   | MN/UVR      | MN/UVR <sup>(1)</sup> |
|    |           |             |                       |
| AC | 110-130 V | EZEUVR110AC | EZEUVRN110AC          |
|    | 200-240 V | EZEUVR200AC | EZEUVRN200AC          |
|    | 277 V     | EZEUVR277AC | EZEUVRN277AC          |
|    | 380-415 V | EZEUVR400AC | EZEUVRN400AC          |
|    | 440-480 V | EZEUVR440AC | EZEUVRN440AC          |
| DC | 24 V      | EZEUVR024DC | EZEUVRN024DC          |
|    | 48 V      | EZEUVR048DC | EZEUVRN048DC          |
|    | 125 V     | EZEUVR125DC | EZEUVRN125DC          |

(1) Only EZC250-4P and EZCV250-3/4P

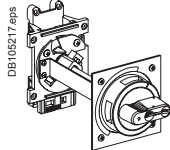
## Rotary handles

### Direct rotary handle



|                                   |            |
|-----------------------------------|------------|
| Direct rotary handle (black)      | EZEROTDS   |
| Direct rotary handle (red/yellow) | EZEROTDSRY |

### Extended rotary handle



|                                     |           |
|-------------------------------------|-----------|
| Extended rotary handle (black)      | EZEROTE   |
| Extended rotary handle (red/yellow) | EZEROTERY |

## Locks

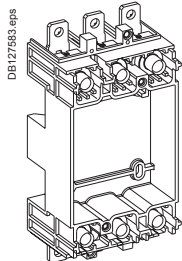
### Padlocking system



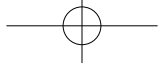
|                                                  |          |
|--------------------------------------------------|----------|
| Padlocking system for EZC250-3P                  | EZELOCK  |
| Padlocking system for EZC250-4P and EZCV250-3/4P | EZELOCKN |

## Plug-in

### Plug-in 250 A



|                                                |           |
|------------------------------------------------|-----------|
| Kit, plug-in base 3P 100 A-250 A 60 mm breaker | EZEPLUG3L |
| Kit, plug-in base 3P 100 A-250 A 68 mm breaker | EZEPLUG3H |
| Kit, plug-in base 4P 100 A-250 A 68 mm breaker | EZEPLUG4  |
| Kit, plug-in connectors 100 A-250 A set of 2   | EZEPCON1  |

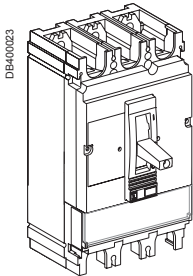


Catalogue numbers

EZC400N/H 3P/4P  
Circuit breaker

EasyPact EZC400N 3P 36 kA 400/415 V

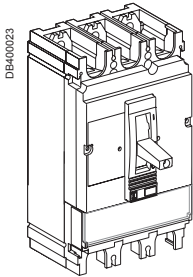
With thermal magnetic trip unit



| Rating | 3P 3t        |
|--------|--------------|
| 320 A  | EZC400N3320N |
| 350 A  | EZC400N3350N |
| 400 A  | EZC400N3400N |

EasyPact EZC400H 3P 50 kA 400/415 V

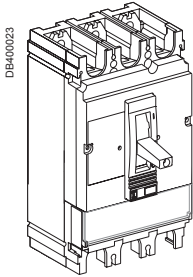
With thermal magnetic trip unit



| Rating | 3P 3t        |
|--------|--------------|
| 320 A  | EZC400H3320N |
| 350 A  | EZC400H3350N |
| 400 A  | EZC400H3400N |

EasyPact EZC400N 4P 36 kA 400/415 V

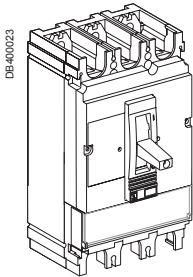
With thermal magnetic trip unit



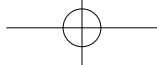
| Rating | 4P 3t        | 4P 4t         |
|--------|--------------|---------------|
| 320 A  | EZC400N4320N | EZC400N44320N |
| 350 A  | EZC400N4350N | EZC400N44350N |
| 400 A  | EZC400N4400N | EZC400N44400N |

EasyPact EZC400H 4P 50 kA 400/415 V

With thermal magnetic trip unit



| Rating | 4P 3t        | 4P 4t         |
|--------|--------------|---------------|
| 320 A  | EZC400H4320N | EZC400H44320N |
| 350 A  | EZC400H4350N | EZC400H44350N |
| 400 A  | EZC400H4400N | EZC400H44400N |

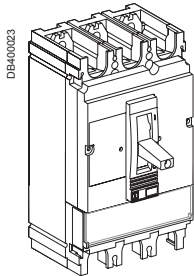


# EZC630N/H 3P/4P

## Circuit breaker

### EasyPact EZC630N 3P 36 kA 400/415 V

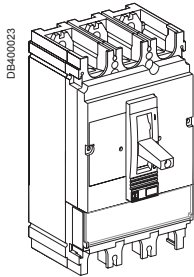
With thermal magnetic trip unit



| Rating | 3P 3t        |
|--------|--------------|
| 400 A  | EZC630N3400N |
| 500 A  | EZC630N3500N |
| 600 A  | EZC630N3600N |

### EasyPact EZC630H 3P 50 kA 400/415 V

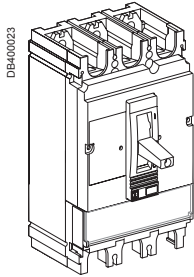
With thermal magnetic trip unit



| Rating | 3P 3t        |
|--------|--------------|
| 400 A  | EZC630H3400N |
| 500 A  | EZC630H3500N |
| 600 A  | EZC630H3600N |

### EasyPact EZC630N 4P 36 kA 400/415 V

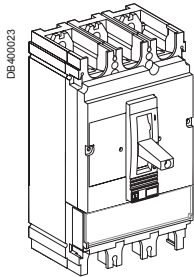
With thermal magnetic trip unit



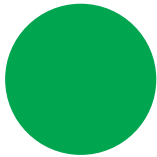
| Rating | 4P 3t        | 4P 4t         |
|--------|--------------|---------------|
| 400 A  | EZC630N4400N | EZC630N44400N |
| 500 A  | EZC630N4500N | EZC630N44500N |
| 600 A  | EZC630N4600N | EZC630N44600N |

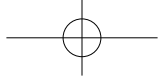
### EasyPact EZC630H 4P 50 kA 400/415 V

With thermal magnetic trip unit



| Rating | 4P 3t        | 4P 4t         |
|--------|--------------|---------------|
| 400 A  | EZC630H4400N | EZC630H44400N |
| 500 A  | EZC630H4500N | EZC630H44500N |
| 600 A  | EZC630H4600N | EZC630H44600N |



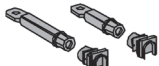


Catalogue numbers

EZC400/630N/H  
Accessories

Connection accessories (Cu or Al)

Rear connections

|                                                                                   |         |  |          |
|-----------------------------------------------------------------------------------|---------|--|----------|
|  | 2 short |  | LV432475 |
|                                                                                   | 2 long  |  | LV432476 |

Cable connectors <sup>(1)</sup>

|                                                                                   |                                                     |           |          |
|-----------------------------------------------------------------------------------|-----------------------------------------------------|-----------|----------|
|  | Aluminium connector 1x (35 to 300 mm <sup>2</sup> ) | Set of 3  | LV432479 |
|                                                                                   |                                                     | Set of 4  | LV432480 |
|  | Aluminium connector 2x (35 to 240 mm <sup>2</sup> ) | Set of 3  | LV432481 |
|                                                                                   |                                                     | Set of 4  | LV432482 |
|                                                                                   | Voltage plug for aluminium connector 1 or 2 cables  | Set of 10 | LV429348 |

Terminal extension <sup>(1)</sup>

|                                                                                     |                                |         |          |          |
|-------------------------------------------------------------------------------------|--------------------------------|---------|----------|----------|
|    | Right-angle terminal extension |         | Set of 3 | LV432484 |
|                                                                                     |                                |         | Set of 4 | LV432485 |
|  | Edgewise terminal extensions   |         | Set of 3 | LV432486 |
|                                                                                     |                                |         | Set of 4 | LV432487 |
|  | Spreaders                      | 52.5 mm | 3P       | LV432490 |
|                                                                                     |                                |         | 4P       | LV432491 |
|                                                                                     |                                | 70 mm   | 3P       | LV432492 |
|                                                                                     |                                |         | 4P       | LV432493 |

Crimp lugs for copper cable <sup>(1)</sup>

|                                                                                     |                                            |          |          |
|-------------------------------------------------------------------------------------|--------------------------------------------|----------|----------|
|  | For cable 240 mm <sup>2</sup>              | Set of 3 | LV432500 |
|                                                                                     |                                            | Set of 4 | LV432501 |
|                                                                                     | For cable 300 mm <sup>2</sup>              | Set of 3 | LV432502 |
|                                                                                     |                                            | Set of 4 | LV432503 |
|                                                                                     | Supplied with 2 (or 3) interphase barriers |          |          |

Crimp lugs for aluminium cable <sup>(1)</sup>

|                                                                                     |                                            |          |          |
|-------------------------------------------------------------------------------------|--------------------------------------------|----------|----------|
|  | For cable 240 mm <sup>2</sup>              | Set of 3 | LV432504 |
|                                                                                     |                                            | Set of 4 | LV432505 |
|                                                                                     | For cable 300 mm <sup>2</sup>              | Set of 3 | LV432506 |
|                                                                                     |                                            | Set of 4 | LV432507 |
|                                                                                     | Supplied with 2 (or 3) interphase barriers |          |          |

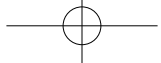
Insulation accessories

|                                                                                     |                                                                                         |          |          |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------|----------|
|  | Short terminal shield, 45 mm (1 piece)                                                  | 3P       | LV432591 |
|                                                                                     |                                                                                         | 4P       | LV432592 |
|                                                                                     | Long terminal shield, 45 mm (1 piece)                                                   | 3P       | LV432593 |
|                                                                                     |                                                                                         | 4P       | LV432594 |
|  | Interphase barriers                                                                     | Set of 6 | LV432570 |
|                                                                                     | Long terminal shielded for spreaders, 52,5mm (1 piece) (supplied with insulating plate) | 3P       | LV432595 |
|                                                                                     |                                                                                         | 4P       | LV432596 |
|                                                                                     | 2 insulating screens (70 mm pitch)                                                      | 3P       | LV432578 |
|                                                                                     |                                                                                         | 4P       | LV432579 |

(1) supplied with 2 or 3 interphase barriers

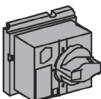
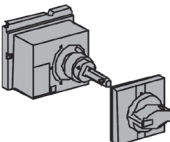
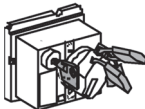


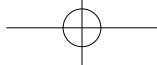




Catalogue numbers

EZC400/630N/H (cont.)  
Accessories (cont.)

| Rotary handle                                                                       |                                        |  |          |
|-------------------------------------------------------------------------------------|----------------------------------------|--|----------|
| Direct rotary handle                                                                |                                        |  |          |
|    | Standard black handle                  |  | LV432597 |
|                                                                                     |                                        |  |          |
| Extended rotary handle                                                              |                                        |  |          |
|    | Standard extended rotary handle        |  | LV432598 |
|                                                                                     |                                        |  |          |
|                                                                                     |                                        |  |          |
| Locks                                                                               |                                        |  |          |
| Toggle locking device for 1 to 3 padlocks                                           |                                        |  |          |
|  | By removable device                    |  | 29370    |
|                                                                                     |                                        |  |          |
|  | By fixed device                        |  | 32631    |
|                                                                                     |                                        |  |          |
| Locking of the rotary handle                                                        |                                        |  |          |
|  | Keylock adaptor (keylock not included) |  | LV432604 |
|                                                                                     | Keylock (keylock adaptor not included) |  | 41940    |
|                                                                                     | Ronis 1351B.500                        |  | 42888    |
|                                                                                     | Profalux KS5 B24 D4Z                   |  |          |

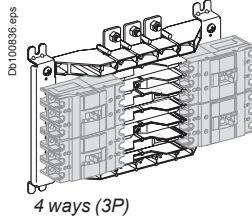


# EasyPact EZC Busbar

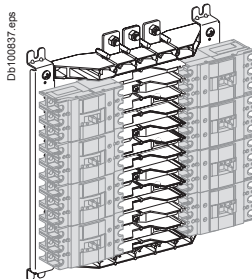
## Type-tested solution IEC 60439

### Main Busbar

#### Main Busbar (EasyPact EZC 100/3P)



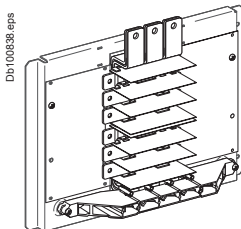
4 ways (3P)



8 ways (3P)

|         | 250 A     | 400 A     | 630 A     |
|---------|-----------|-----------|-----------|
| 4 ways  | EZB250W04 | EZB400W04 | EZB630W04 |
| 6 ways  | EZB250W06 | EZB400W06 | EZB630W06 |
| 8 ways  | EZB250W08 | EZB400W08 | EZB630W08 |
| 10 ways | EZB250W10 | EZB400W10 | EZB630W10 |
| 12 ways | EZB250W12 | EZB400W12 | EZB630W12 |

### Branch extension (EasyPact EZC/Compact NSX/NB)

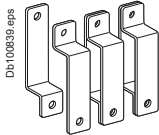


4 ways (3P)

|        |        |
|--------|--------|
| 2 ways | EZBNS2 |
| 4 ways | EZBNS4 |

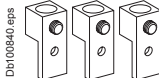
### Main incoming connections (Easypact EZC/Compact NSX/NB)

#### Main connectors



|                                                                                                | 250 A      | 400 A      | 630 A      |
|------------------------------------------------------------------------------------------------|------------|------------|------------|
| Main connectors                                                                                | EZB250MCNS | EZB400MCNS | EZB630MCNS |
| To connect the main incomer to EasyPact EZC busbar (EasyPact EZC/Compact NSX/NB or INS switch) |            |            |            |

#### Mechanical lugs

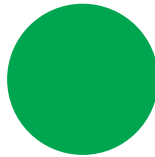


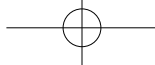
|                                  | 250 A                  | 400 A                  | 630 A                                        |
|----------------------------------|------------------------|------------------------|----------------------------------------------|
| Incoming cable size              | 16-150 mm <sup>2</sup> | 35-300 mm <sup>2</sup> | 25-240 mm <sup>2</sup><br>2 cables per phase |
| Lug kit for bare incoming cables | EZB250MLUG             | EZB400MLUG             | EZB630MLUG                                   |

#### Connector caps



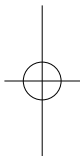
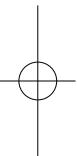
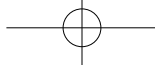
|                                                          |          |           |
|----------------------------------------------------------|----------|-----------|
| Connector caps for 100 A out goings                      | Set of 3 | EZB100CAP |
| Connector caps for 250 A out goings                      | Set of 3 | EZB250CAP |
| To isolate connections when branch breaker not installed |          |           |





# Notes

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