

Low voltage

# EasyPact EZC

Moulded-case circuit breakers  
from 15 to 630 A

Catalogue  
2013



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)	IIC (kAmps)
	240 ~	85
	277/480~	25
DL 06253		



CDB500613

EasyPact™ EZC 250

suitable for use at 50°C without derating

75°C Cu Wire torque 8-13 Nm (71-115 lbf-in)

LISTED MAN. MOTOR CTRL. 277V Max. CB 300A Break all Lines

Short Circuit rating	240 Vac		480 Vac	
	1ph	3ph	1ph	3ph
163A	150A	5	10	20
180A	164A	5	10	20
100A	180A	10	10	20
125A	100A	10	10	20
150A	120A	10	10	20
160A	128A	10	10	20
175A	140A	10	10	20
220A	160A	10	10	20
225A	180A	40	10	20
250A	250A	5	40	20

GB 14048-2  
50Hz F N H  
230V~ 25kA 50kA 15kA  
400V~ 15kA 25kA 36kA

Merlin Gerin made in China

Example for 250 A frame.

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
- Ics: service breaking capacity
- In: rated current
- suitability for isolation

CPB100602



## 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
- UL508/CSA 22-2 no. 14.

## Approvals and Certifications

- IEC certification by independent laboratories (ASEFA, KEMA, TÜV)
- CE marking
- certified by third party Tilva
- certified by third party Underwriter Laboratories as a "Manual Motor Controller" (EZC250/EZCV250).

## 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, GL, LR, KRS, RINA, NK):
- 2 to 13.2 Hz: amplitude ± 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.

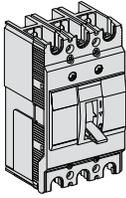
# EZC100B/F/N/H 3P

## Circuit breaker

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

With thermal magnetic trip unit

DB116442.eps

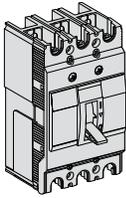


Rating	3P 3t
15 A	EZC100B3015
16 A	EZC100B3016
20 A	EZC100B3020
25 A	EZC100B3025
30 A	EZC100B3030
32 A	EZC100B3032
40 A	EZC100B3040
45 A	EZC100B3045
50 A	EZC100B3050
60 A	EZC100B3060

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

With thermal magnetic trip unit

DB116442.eps

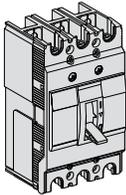


Rating	3P 3t
15 A	EZC100F3015
16 A	EZC100F3016
20 A	EZC100F3020
25 A	EZC100F3025
30 A	EZC100F3030
32 A	EZC100F3032
40 A	EZC100F3040
45 A	EZC100F3045
50 A	EZC100F3050
60 A	EZC100F3060
63 A	EZC100F3063
75 A	EZC100F3075
80 A	EZC100F3080
100 A	EZC100F3100

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

With thermal magnetic trip unit

DB116442.eps

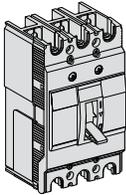


Rating	3P 3t
15 A	EZC100N3015
16 A	EZC100N3016
20 A	EZC100N3020
25 A	EZC100N3025
30 A	EZC100N3030
32 A	EZC100N3032
40 A	EZC100N3040
45 A	EZC100N3045
50 A	EZC100N3050
60 A	EZC100N3060
63 A	EZC100N3063
75 A	EZC100N3075
80 A	EZC100N3080
100 A	EZC100N3100

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

With thermal magnetic trip unit

DB116442.eps



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

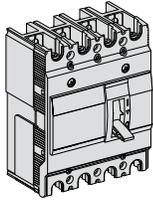
# EZC100N/H 4P

## Circuit breaker

### EasyPact EZC100N 4P 15 kA 400/415 V

With thermal magnetic trip unit

DB114620\_4p5

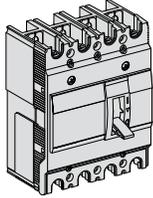


Rating	4P 3t
15 A	EZC100N4015
16 A	EZC100N4016
20 A	EZC100N4020
25 A	EZC100N4025
30 A	EZC100N4030
32 A	EZC100N4032
40 A	EZC100N4040
45 A	EZC100N4045
50 A	EZC100N4050
60 A	EZC100N4060
63 A	EZC100N4063
75 A	EZC100N4075
80 A	EZC100N4080
100 A	EZC100N4100

### EasyPact EZC100H 4P 30 kA 400/415 V

With thermal magnetic trip unit

DB114620\_4p5



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

 DB1100821.eps	≤ 50 A	Cables from 2.5 to 16 mm <sup>2</sup>	Set of 2	EZALUG0502
			Set of 3	EZALUG0503
 DB1100822.eps	> 50 A	Cables from 10 to 50 mm <sup>2</sup>	Set of 2	EZALUG1002
			Set of 3	EZALUG1003

#### Spreaders

 DB111674.eps	Spreaders for 3P breaker		Set of 3	EZASPDR3P
	Spreaders for 4P breaker		Set of 4	EZASPDR4P

#### Terminal shields

 DB1100824.eps	Terminal shields for 3P breaker		Set of 2	EZATSHD3P
	Terminal shields for 4P breaker		Set of 2	EZATSHD4P
 DB1100825.eps				

#### Sealing screws

 DB1100825.eps	Sealing screws		Set of 2	EZASSCR
-----------------------------------------------------------------------------------------------------	----------------	--	----------	---------

#### Phase barriers

 DB1100826.eps	Phase barriers		Set of 2	EZAFASB2
------------------------------------------------------------------------------------------------------	----------------	--	----------	----------

### Electrical auxiliaries

#### Indication contacts

 DB111682.eps	Auxiliary switch (AX)			EZAUX10
 DB111683.eps	Alarm switch (AL)			EZAUX01
 DB111685.eps	Auxiliary switch + alarm switch (AX + AL)			EZAUX11

**Electrical auxiliaries (cont.)**

**Voltage releases**

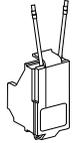
Dn100830.eps



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

Dn100831.eps



Under voltage release (UVR)

	Voltage	MN/UVR
AC	110-130 V	EZAUVR110AC
	200-240 V	EZAUVR200AC
	277 V	EZAUVR277AC
	380-415 V	EZAUVR380AC
	440-480 V	EZAUVR440AC
DC	24 V	EZAUVR024DC
	48 V	EZAUVR048DC
	125 V	EZAUVR125DC

**Rotary handles**

**Direct rotary handle (for 3/4P breaker)**

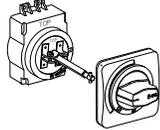
Dn100832.eps



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

**Extended rotary handle (for 3/4P breaker)**

Dn100833.eps



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

**Locks**

**Padlocking system**

Dn100834.eps

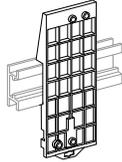


Padlocking system	EZALOCK
-------------------	---------

**Installation accessory**

**DIN rail adaptor**

Dn100835.eps

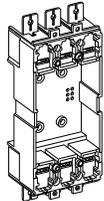


For 2 x 1P or 1 x 2P or 1 x 3P breaker Note: for 4P breaker, use 2 adaptors	EZADINR
--------------------------------------------------------------------------------	---------

**Plug-in**

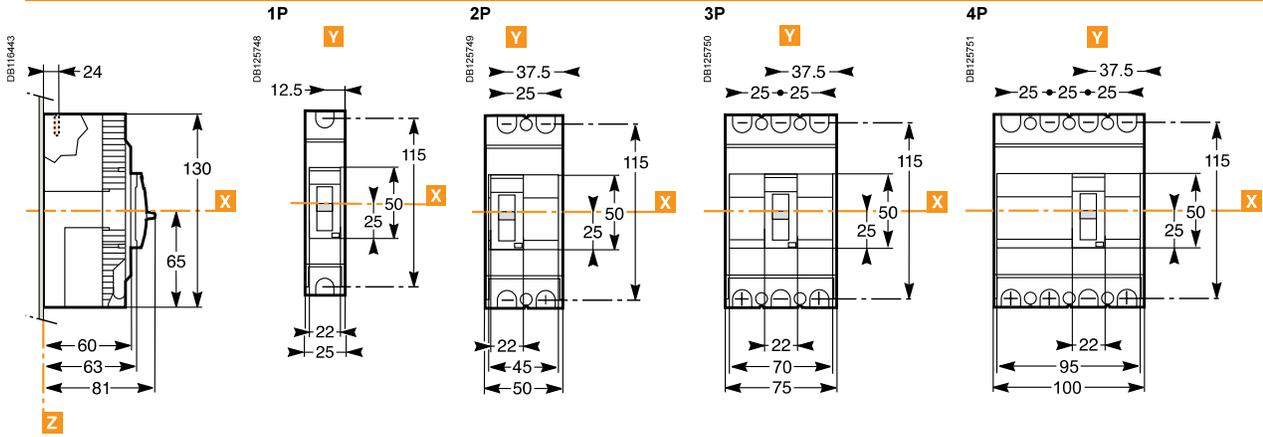
**Plug-in 100 A**

Dn127562.eps

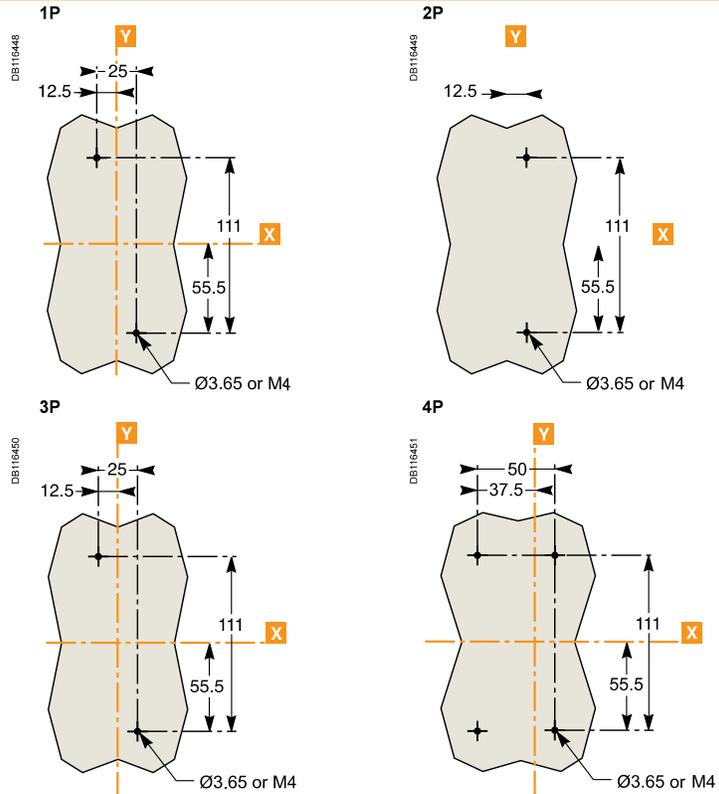


Kit, plug-in base 3P 15 A-50 A	EZAPLUG3L
Kit, plug-in base 3P 60 A-100 A	EZAPLUG3H
Fishbone connectors set of 3	EZAFSHB3
Plug-in connectors 15 A-50 A set of 2	EZAPCON1L
Plug-in connectors 60 A-100 A set of 2	EZAPCON1H

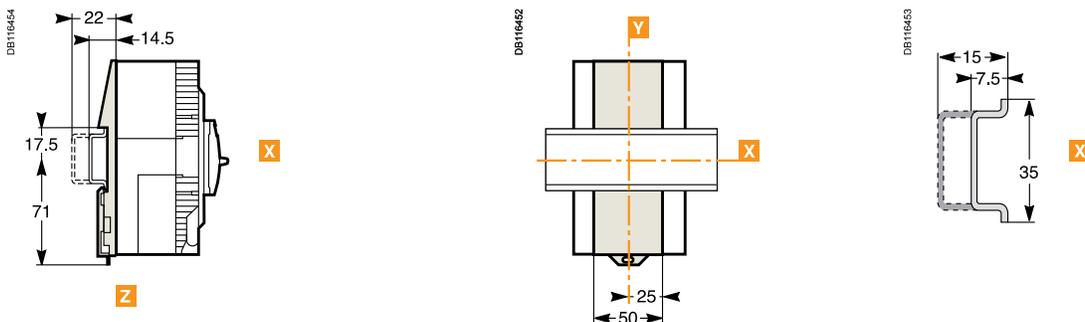
### Dimensions



### Mounting on plate

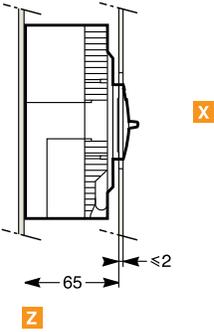


### Mounting on DIN rail



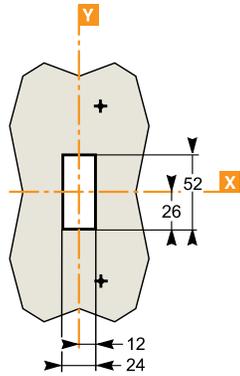
## Door cut-out (small)

DB116455



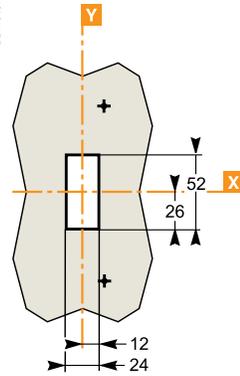
1P, 3P

DB116457



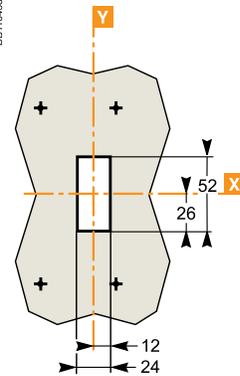
2P

DB116457



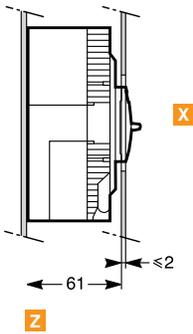
4P

DB116455



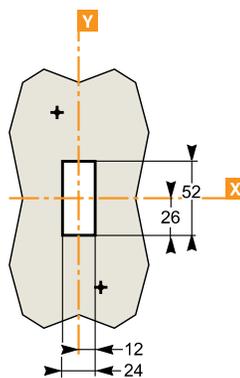
## Door cut-out (large)

DB116459



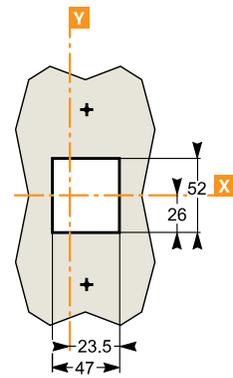
1P

DB116460



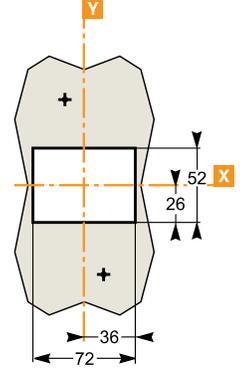
2P

DB116461



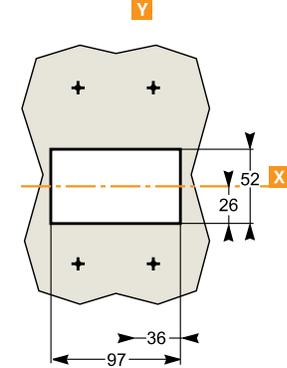
3P

DB116462



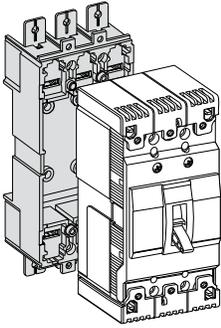
4P

DB116463

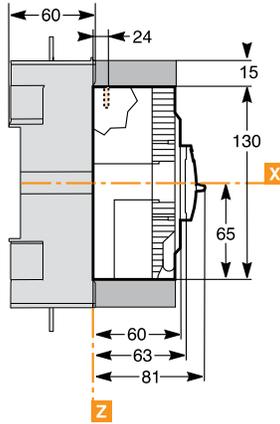


### Dimensions

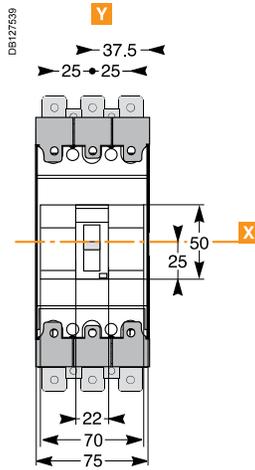
DB127536



DB127538



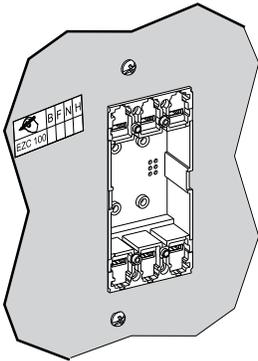
DB127539



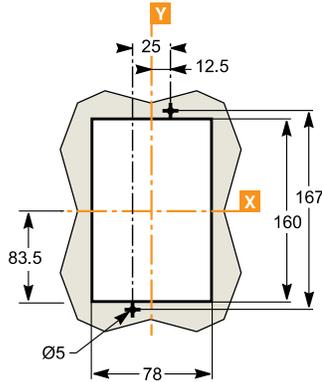
### Mounting

#### Through front panel

DB127541

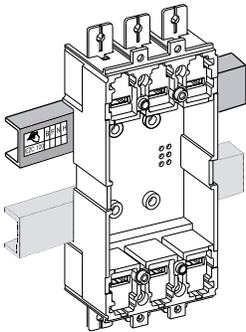


DB127537

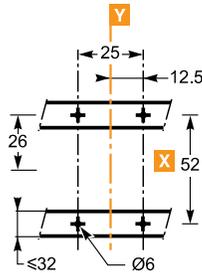


#### On rail

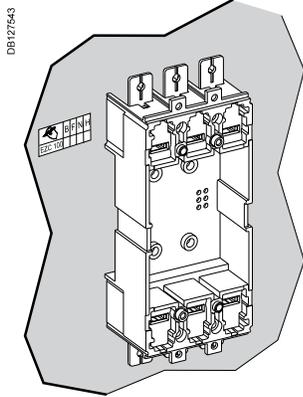
DB127542



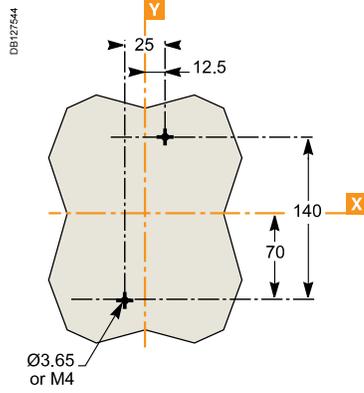
DB127540



**On backplate**

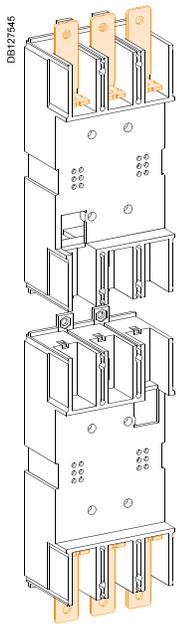


DB127543

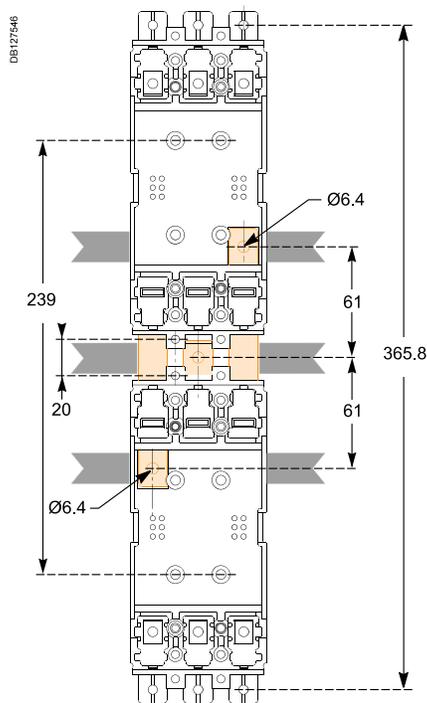


DB127544

**Dimensions - combination**



DB127545



DB127546