

Low voltage

EasyPact EZC

Moulded-case circuit breakers
from 15 to 630 A

Catalogue
2013



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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



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 ⁽¹⁾
- CSA22-2 ⁽²⁾
- IACS for Merchant Marine

(International Association of Classification Societies:
ABS, BV, CCS, DNV, GL, KRS, LR, NK, RINA)**

⁽¹⁾ Only for the 250A and 400A models

⁽²⁾ Only for the 100A and 250A models

With international certifications and approvals by independent laboratories:

ASEFA, KEMA, TILVA, TÜV, UL

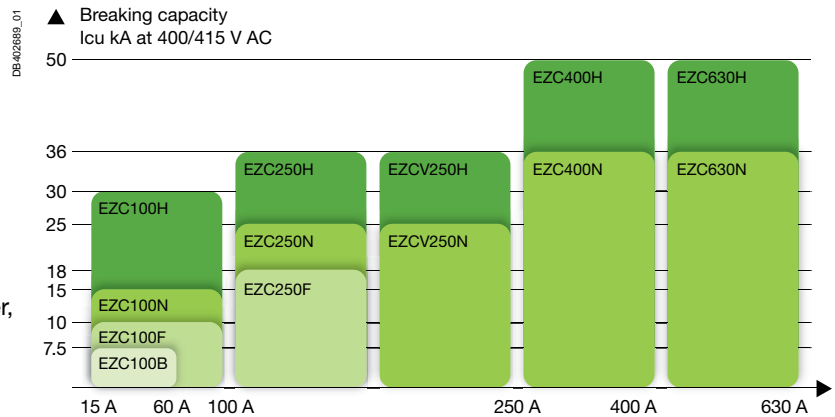
And compliance to RoHS Directive

(Restriction of Hazardous Substances)

Easy 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 connexions
- > Bare cables connected through cable lugs, screwed inside the breaker
- > Field-installable auxiliaries and accessories
- > Built-in earth-leakage protection
- > Interchangeable MCCB and ELCB



Easy to use

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



EasyPact™ ELCB:
 Build your complete solution with Schneider Electric



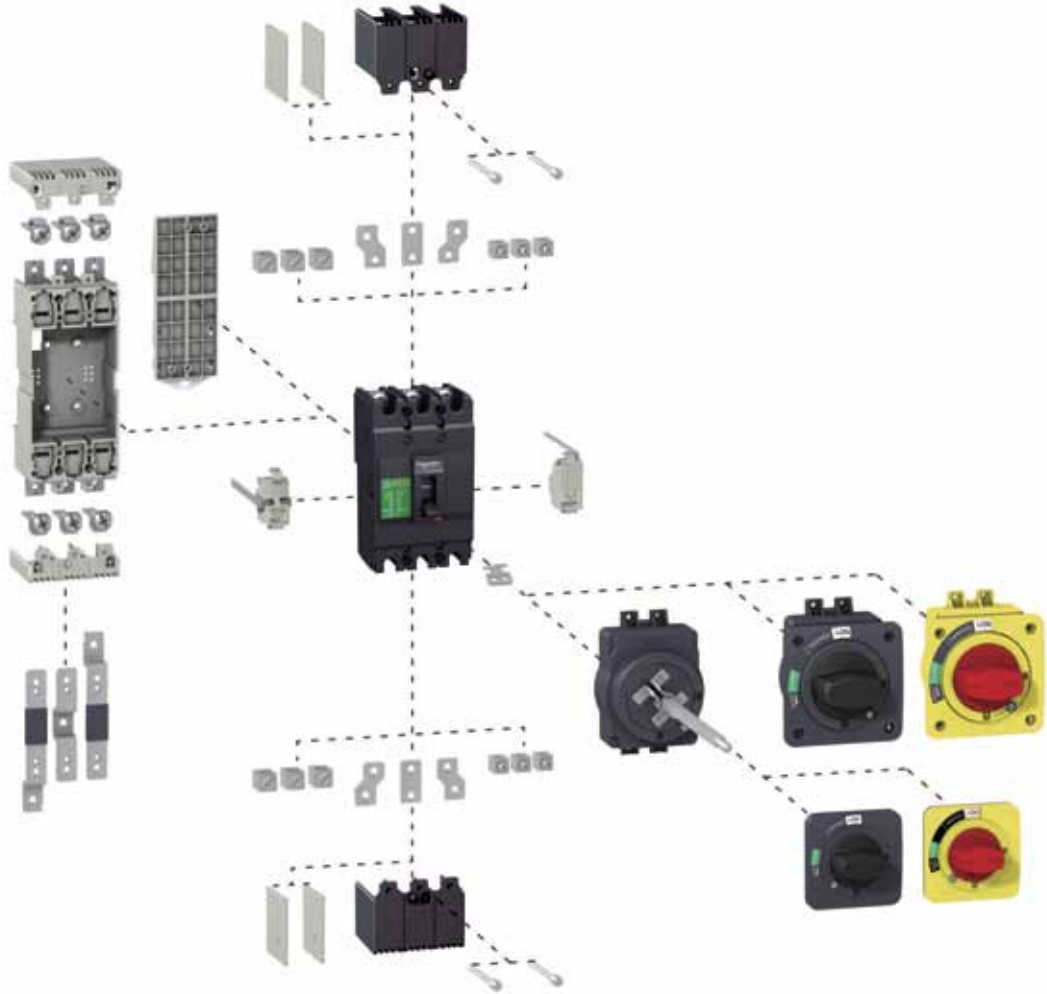
Timely delivery, wherever you are

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

Accessories

PB104603

The new **plug-in accessory** reduces installation and maintenance time.



CPB100609



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

CPB100610



> Make the most of your energy™

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CB500611



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		



CB500612

CB500613

EasyPact™ E2C 250

suitable for use at 50°C without derating

75°C Cu Wire
torque 8-13 N.m (71-115 lb.in)

LISTED MAN. MOTOR CTRL.
277V Max. CB 800A
Break all Lines

Short Circuit rating	240 Vac		480 Vac	
	5 kA	5 kA	5 kA	5 kA
163A	150A	5	10	10
150A	144A	5	10	10
100A	180A	5	10	10
125A	100A	5	10	10
150A	120A	5	10	10
150A	120A	5	10	10
150A	120A	5	10	10
175A	140A	5	10	10
200A	160A	5	10	10
225A	180A	5	40	10
250A	200A	5	40	10

GB 14048-2
50Hz F N H
230V~ 25kA 50kA 85kA
400V~ 18kA 25kA 36kA

Merkin Gerin made in China

Compliance with standards

EasyPact E2C 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)
- marking
- certified by third party Tilva
- certified by third party Underwriter Laboratories as a "Manual Motor Controller" (E2C250/E2CV250).

Vibration and shock withstand test

EasyPact E2C 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 E2C circuit breakers are certified for operation in pollution-degree III environments as defined by IEC standard 60947 (industrial environments).

Tropicalisation

EasyPact E2C 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 E2C 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 E2C 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



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

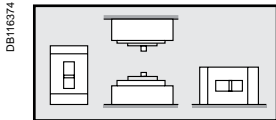
EasyPact EZC circuit breakers are designed for easy installation in the various types of switchboards. They may be mounted vertically, horizontally or flat on their back without any derating of characteristics.

Power supply

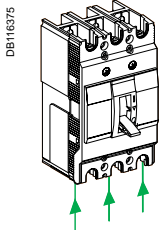
EasyPact EZC circuit breaker can be supplied from either the top or the bottom (reverse feeding) without any reduction in performance. For earth-leakage circuit breakers, reverse feeding is possible only up to 240 V AC. This capability facilitates connection when installed in a switchboard.

Degree of protection

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



Installation positions.



Reverse feeding.

Bare circuit breaker with terminal shields

DB116376		With toggle	IP20	IK07
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DB116377		With direct rotary handle standard	IP40	IK07
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Circuit breaker installed in a switchboard

DB116378		With toggle	IP40	IK07
----------	--	-------------	------	------

DB116380		With direct rotary handle standard/VDE MCC	IP54	IK07
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DB116381		With extended rotary handle	IP54	IK08
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Earth-leakage circuit breakers

With three built-in protections:

- overload
- short-circuit
- earth-leakage.

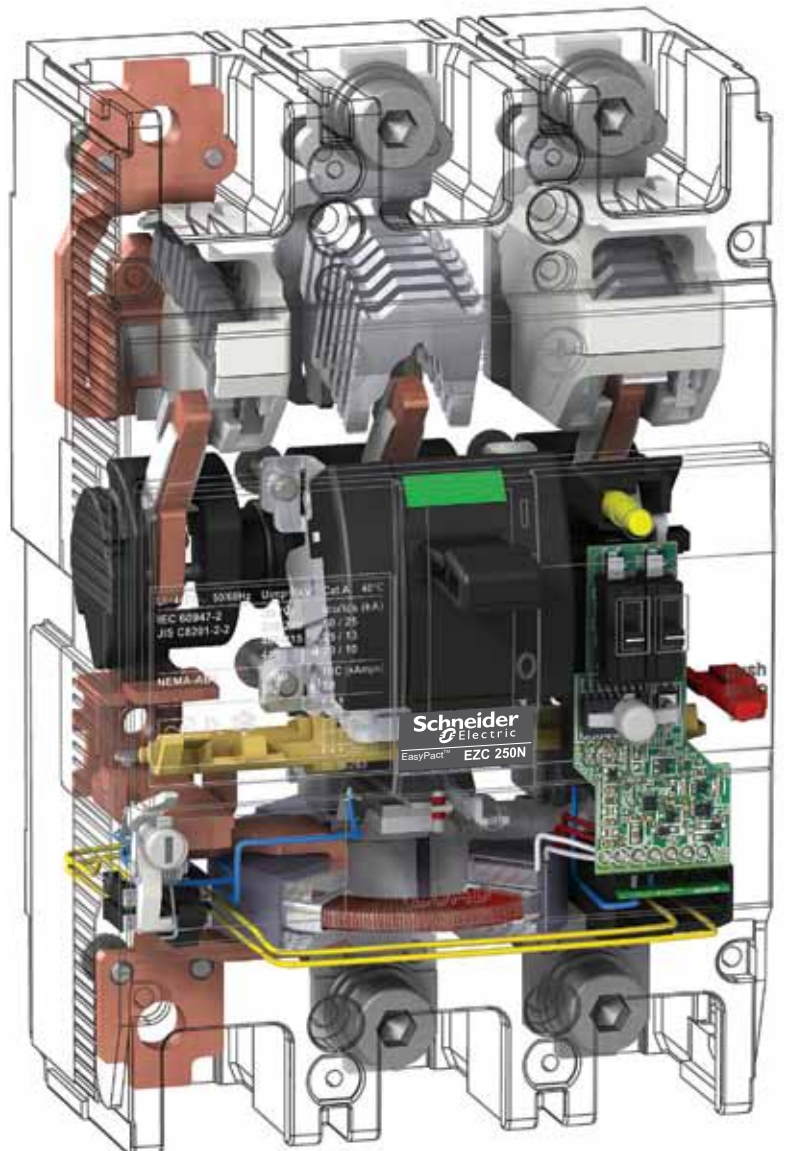
From 63 A to 250 A

With adjustable sensibility and time delay

Up to 36 kA at 415 V

In 3 poles and 4 poles

DB125805



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
			400/415 V
			440 V
DC	550 V		
	125 V (1P)		
	250 V (2P in series)		
Rated service breaking capacity (kA rms)	Ics	% Icu	110-400 V 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
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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 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	
	■	■	■	■	■	■	■	■	
	■	■	-	■ ⁽⁴⁾	-	■	■	■	
	3	3	1	3-4	1	2-3-4	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	
	6	6	6	6	6	6	6	6	
	550	550	415	550	415	550	550	550	
	-	250	125	250	125	250	250	250	
	10	25	25	25	50	100	25	50	85
	10	25	18	25	25	100 ⁽¹⁾	25	50	85
	7.5	10	2.5	18	5	30	18	25	36
	7.5	10	2.5	15	5	30	18	25	36
	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	
	3	3	3	3	3	3	3	3	
	8 500	8 500	8 500	8 500	8 500	8 500	10 000	10 000	10 000
	1 500	1 500	1 500	1 500	1 500	1 500	5 000	5 000	5 000
	-	-	10	25	18	100	25	50	85
	-	-	10 ⁽²⁾	10	18 ⁽²⁾	18 ⁽³⁾	15	18	25 ⁽³⁾
	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed
	fixed	fixed	fixed	fixed	fixed	fixed	10 In	10 In	10 In
	■	■	-	■	-	■	■	■	■
	■	■	-	■	-	■	■	■	■
	■	■	-	■	-	■	■	■	■
	■	■	-	■	-	■	■	■	■
	■	■	-	■	-	■	■	■	■
	■	■	■	■	■	■	■	■	■
	■	■	■	■	■	■	■	■	■
	■	■	-	■	-	■ ⁽³⁾	■	■	■
	■	■	-	■	-	■ ⁽³⁾	■	■	■
	-	-	-	-	-	-	■	■	■
	■	■	-	■	-	■	■	■	■
	■	■	■	■	■	■	■	■	■
	■	■	-	■	-	■ ⁽³⁾	■	■	■
	■	■	■	■	■	■	■	■	■
	■	■	■	■	■	■	-	-	-
	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) 100 (4P)	25	50 (2P) 75 (3P) 100 (4P)	105	105	105
	0.78	0.78	0.28	0.78 (3P) 1.0 (4P)	0.28	0.6 (2P) 0.78 (3P) 1.0 (4P)	1.3	1.3	1.1 (2P) 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.

CPB100605



EZC250-4P.

CPB100606



EZCV250-4P.

CPB100607



EZC400-3P.

EasyPact EZC circuit breakers

Fixed version		
Plug-in version		
Number of poles		
Rated current (A)	I_n	at 40 °C
Rated insulation voltage (V) U_i		
Rated impulse withstand voltage (kV) U_{imp}		
Rated operational voltage (V)	U_e	AC 50/60 Hz DC

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

Ultimate breaking capacity (kA rms)	I_{cu}	AC 50/60 Hz	220/230 V 380 V 400/415 V 440 V 550 V
		DC	125 V (1P) 250 V (2P in series)
Rated service breaking capacity (kA rms)	I_{cs}	% I _{cu}	

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

Electrical characteristics as per NEMA-AB1

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

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

Earth-leakage protection

Sensitivity (A)	I _{Δn}	adjustable	
Time-delay (ms)	Δt	adjustable	
Max. breaking time (s)	at 2 I _{Δn}		

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

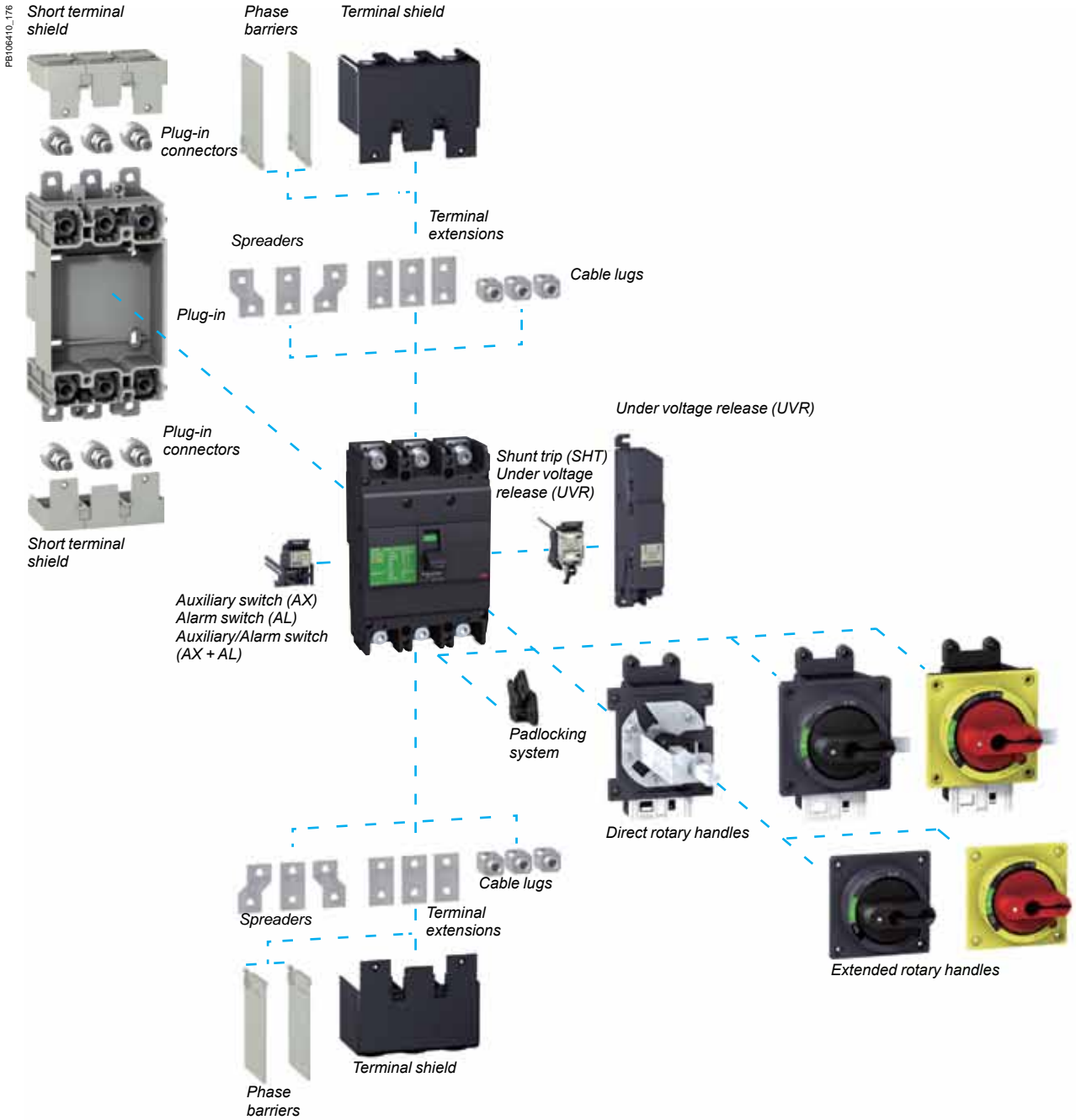
Dimensions (mm)	D x H W
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Weight (kg)	
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	EZC250N	EZC250H	EZCV250N	EZCV250H	EZC400N	EZC400H	EZC630N	EZC630H
	■	■	■	■	■	■	■	■
	■	■	■	■	-	-	-	-
	4	4	3-4	3-4	3-4	3-4	3-4	3-4
	63, 80, 100, 125, 150, 160, 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) 50% (440V)	100% (220-415V) 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) 5000A (600A)	10 In (400/500A) 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	140 x 255	140 x 255	140 x 255	140 x 255
	140	140	105 (3P) 140 (4P)	105 (3P) 140 (4P)	140 (3P) 185 (4P)	140 (3P) 185 (4P)	140 (3P) 185 (4P)	140 (3P) 185 (4P)
	1.8	1.8	1.6 (3P) 2.1 (4P)	1.6 (3P) 2.1 (4P)	4.8 (3P) 6.4 (4P)	4.8 (3P) 6.4 (4P)	4.8 (3P) 6.4 (4P)	4.8 (3P) 6.4 (4P)

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 auxiliaries

100-250AF

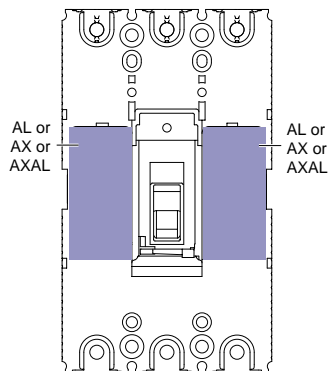
AX - AL - AXAL - ALV

CPB100812



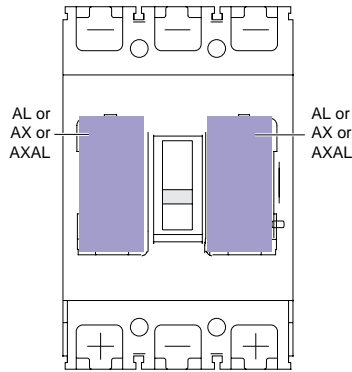
EZC100.

CD8500603



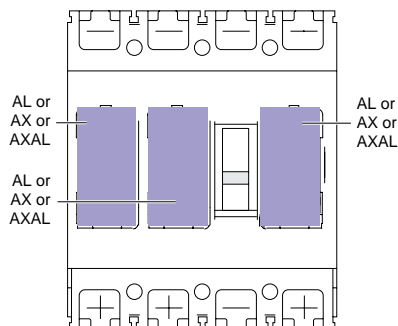
AXAL and AX electrical auxiliaries on EZC100.

CD8500604



AXAL electrical auxiliaries on EZC250.

CD8500605

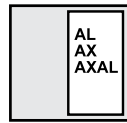


AXAL, AX and ALV electrical auxiliaries on EZCV250.

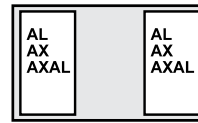
Plug-in location: AX - AL - AXAL - ALV

EZC100

DB116832

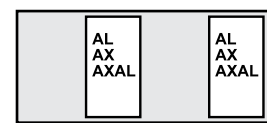


EZC100-2P.



EZC100-3P.

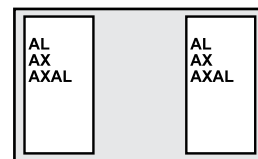
DB116833



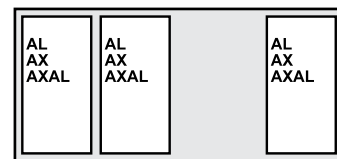
EZC100-4P.

EZC250

DB116834



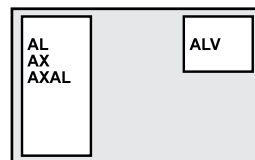
EZC250-3P.



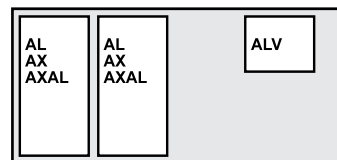
EZC250-4P.

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	3
	48 V	5	5	2.5	1
	125 V	5	3	0.4	0.4
	250 V	3	2	0.2	0.2

Connections

Connection wire length	450 mm
Cross-section	EZC100: 1 mm ² ,
	EZC250/EZCV250: 1.5 mm ²

PB101862-21



Auxiliary switch (AX)
EZAUX10.

PB101876-21



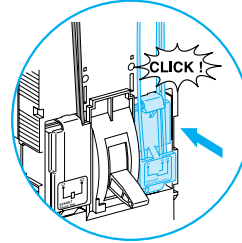
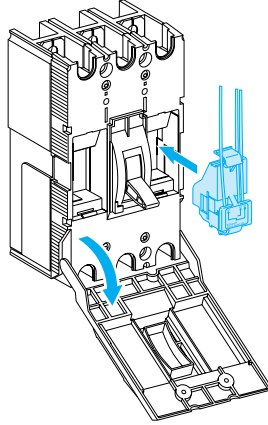
Auxiliary switch (AX)
EZEAX.

PB101893-28



Earth-leakage alarm switch
(ALV).

DB116396



All EasyPact EZC
electrical auxiliaries
are "snapped in place"

Electrical auxiliaries

100-250AF

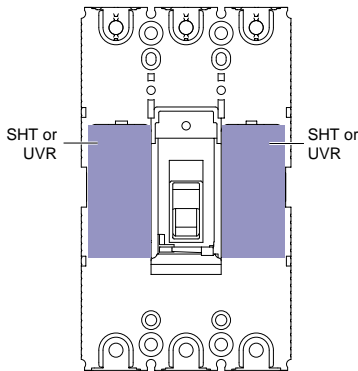
SHT - UVR - UVRN

CPB100816



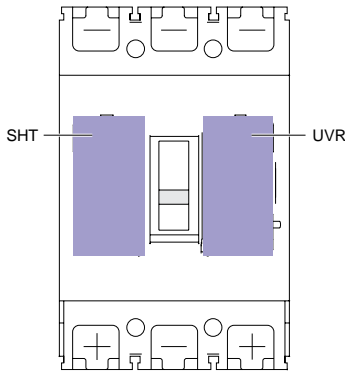
EZC250.

CDB500606



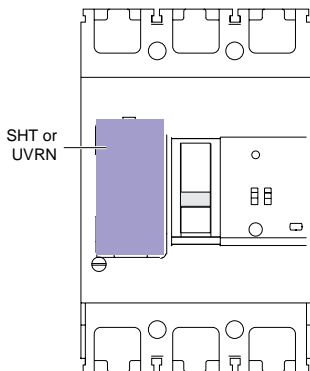
SHT and UVR releases on EZC100.

CDB500607



SHT and UVR releases on EZC250.

CDB500608



UVRN release on EZCV250.

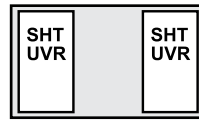
Plug-in location : SHT - UVR - UVRN

EZC100

DB116836



EZC100-2P.



EZC100-3P.

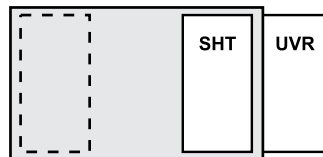
DB116837



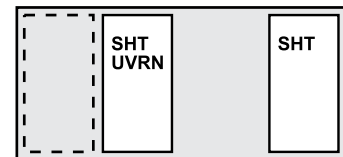
EZC100-4P.

EZC250

DB116838



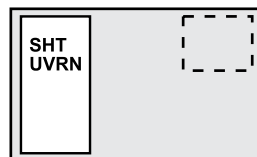
EZC250-3P.



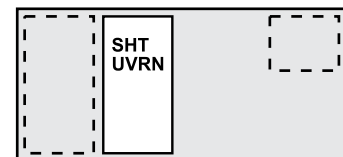
EZC250-4P.

EZCV250

DB116839



EZCV250-3P.



EZCV250-4P.

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 (≥ 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	< 35 W
	response time	< 50 ms	< 100 ms
UVR	seal-in consumption	< 5 VA	< 10 W
	response time	< 50 ms	< 100 ms
UVRN	seal-in consumption	< 5 VA	< 10 W
	response time	< 50 ms	< 100 ms
Connections		EZC100	EZC250/EZCV250
SHT		pre-wired (1 mm ²)	pre-wired (0.5 mm ²)
UVR		pre-wired (1 mm ²)	screws (< 2 mm ²)
UVRN		pre-wired (1 mm ²)	pre-wired (0.5 mm ²)

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.

PB101880-15



Under Voltage Release EZEUVR.

Direct rotary handle 100-250AF

PB101867-31



Direct rotary handle (black) for EZC100.

PB102155-30



Direct rotary handle (red/yellow) for EZC100.

PE101881-33



Direct rotary handle (black) for EZC250/EZCV250.

PB102157-33



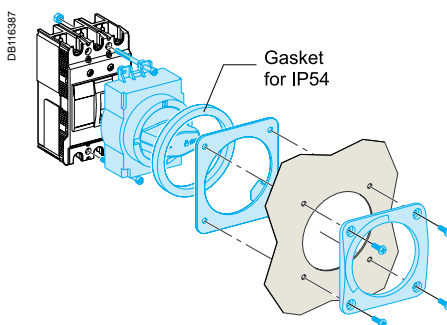
Direct rotary handle (red/yellow) for EZC250/EZCV250.

Direct rotary handle

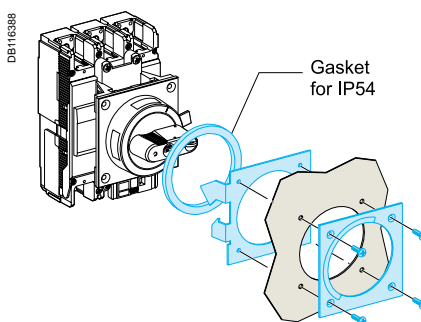
Suitable for Motor Control Centre (MCC) switchboards.

- 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

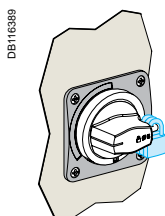


EZC100.

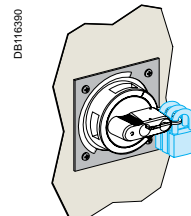


EZC250/EZCV250.

Padlocking



EZC100.



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

PB101868-46



Extended rotary handle (black) for Ezc100.

PE102158-46



Extended rotary handle (red/yellow) for Ezc100.

PB101882-42



Extended rotary handle (black) for Ezc250/EzcV250.

PB102156-42



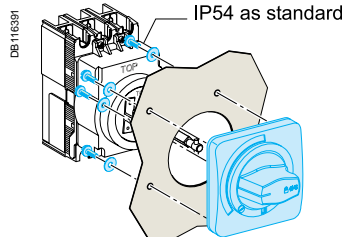
Extended rotary handle (red/yellow) for Ezc250/EzcV250.

Extended rotary handle

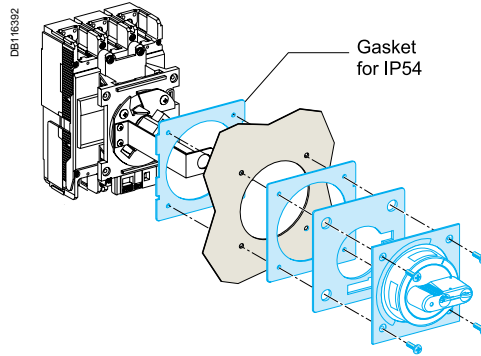
The extended rotary handle is used to control, from the front face of the switchboard, a device installed at the back of the switchboard.

- 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

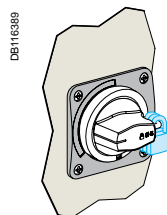


Ezc100.

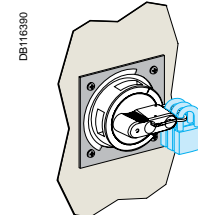


Ezc250/EzcV250.

Padlocking



Ezc100.



Ezc250/EzcV250.

Designation	Cat. no.	
	Ezc100	Ezc250/EzcV250
Extended rotary handle (black)	EZAROTE	EZEROTE
Extended rotary handle (red/yellow)	EZAROTERY	EZEROTERY

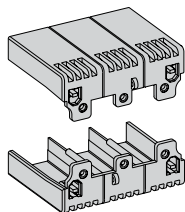
Insulation of live parts

Short terminal shield only.

CFB100621



DB127460



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

Easycompact EVC 100 to 250:

- short terminal shields

Short terminal shields

They are used with:

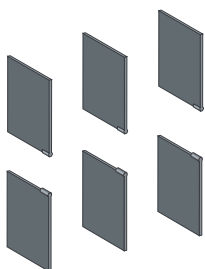
- plug-in in all connection configurations
- fixed versions with rear connection.

Terminal shields and pitch

Combination possibilities are shown below.

Circuit breaker Easycompact EVC	100/160/250
Pitch (mm)	35

DB111356



Interphase barriers

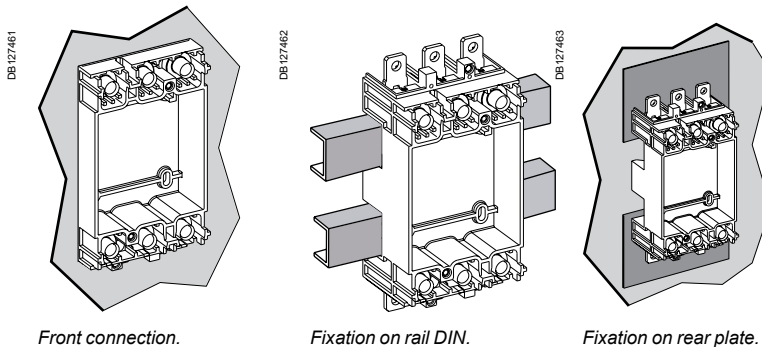
Safety accessories for maximum insulation at the power-connection points:

- 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.

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.



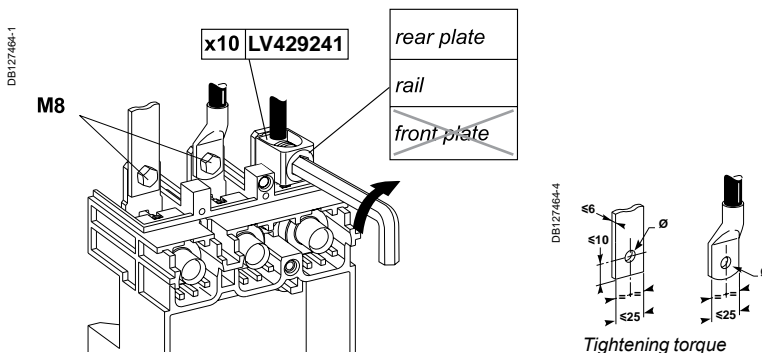
Front connection.

Fixation on rail DIN.

Fixation on rear plate.

Connection accessories

All accessories for fixed devices (bars, lugs).



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

PB106402-43



EZEPCON1

Insulation of live parts

Short terminal shield only



CPB100622

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

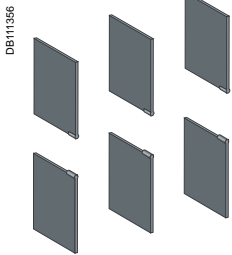
They are used with:

- 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



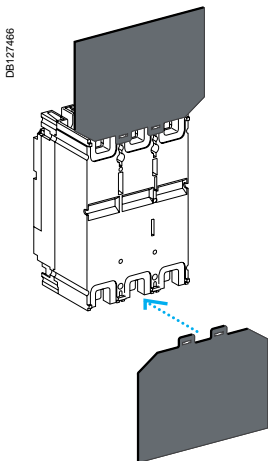
DB11356

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

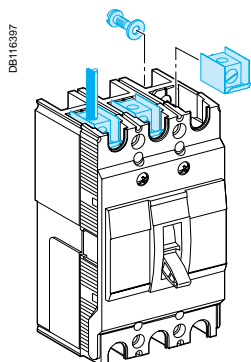
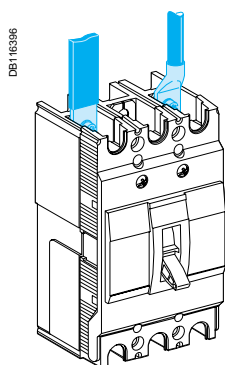
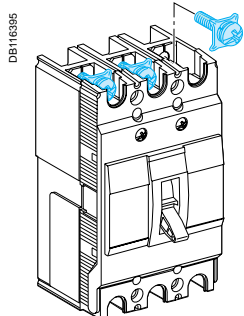
Safety accessories providing insulation at the rear of the device.

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

E88221	EZC100 15 to 50 A	Screw M5
E88222	EZC100 60 to 100 A	Screw M8
DB112345	EZC250/EZCV250 63 to 250 A	Screw M8

Connection of insulated bars or cables with lugs

	EZC100	EZC250/ 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
		9
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)
E88190	E88189	DB115938
Cables from 2.5 to 16 mm ² .	Cables from 10 to 50 mm ² .	Cables from 42.2 to 150 mm ² .

Designation	Cat. no.	
	EZC100	EZC250/EZCV250
Cable lug up to 50 A (set of 2)	EZALUG0502 ⁽¹⁾	-
Cable lug up to 50 A (set of 3)	EZALUG0503 ⁽¹⁾	-
Cable lug from 60 A up to 100 A (set of 2)	EZALUG1002 ⁽²⁾	-
Cable lug from 60 A up to 100 A (set of 3)	EZALUG1003 ⁽²⁾	-
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 Ezc100.

PB101875-15



Phase barriers for Ezc250/
EzcV250.

PB104906



Terminal shield for Ezc100.

PB101874-25



Terminal shield
for Ezc250/EzcV250.

Spreaders

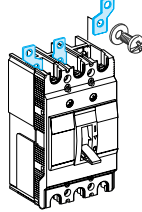
Increase the pitch of the circuit breaker terminals:

- Ezc100 from 25 mm to 35 mm
- Ezc250/EzcV250 from 35 mm to 45 mm.

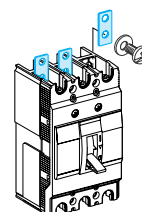
Terminal extensions

Additional terminal extensions are available for Ezc250/EzcV250 at 35 mm pitch.

DB116389



DB116389

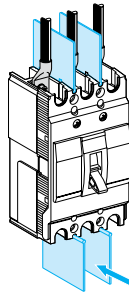


Designation	Cat. no.	
	Ezc100	Ezc250/EzcV250
Spreaders for 3-pole breaker (set of 3)	EZASPDR3P	EZESPDR3P
Spreaders for 4-pole breaker (set of 4)	EZASPDR4P	EZESPDR4P
Terminal extension for 3-pole breaker (set of 3)	-	EZETEX
Terminal extension for 4-pole breaker (set of 4)	-	EZETEX4P

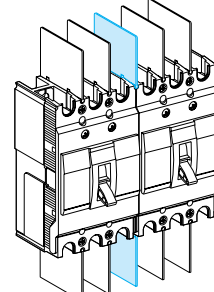
Phase barriers

- 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

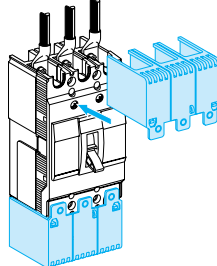


Designation	Cat. no.	
	Ezc100	Ezc250/EzcV250
Phase barriers for 60 mm depth (set of 2)	EZAFASB2	EZEFASB2
Phase barriers for 68 mm depth (set of 3)	-	EZEFASB3N

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 Ezc100, 3, 4-pole Ezc250/EzcV250.

DB402709



Designation	Cat. no.	
	Ezc100	Ezc250/EzcV250
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

PB101870-10



PB101917-15



PB101869-22



Padlocking device for
EVC100.

PB101920-20

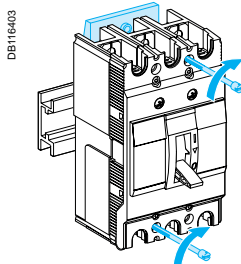


Padlocking device for
EVC250/EZCV250.

DIN rail adaptor

Breaker mounting on a DIN rail is possible by using special adaptor (EVC100 only).
Number of adaptators:

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



Mounting on DIN rail (optional).

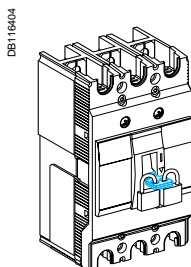
Designation	Cat. no.	
	EVC100	EVC250/EZCV250
Din rail adaptor	EZADINR	-

Padlocking system

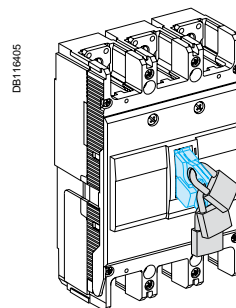
Locking in the OFF position guarantees isolation as per IEC 60947-2.

Padlocking system can receive:

- up to 2 padlocks Ø 5 mm (padlocks not supplied) for EVC100
- up to 3 padlocks Ø 8 mm for EVC250/EZCV250 (padlocks not supplied).



Toggle locking using a removable device:
for EVC100



for EVC250/EZCV250

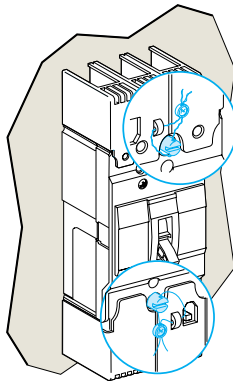
Designation	Cat. no.	
	EVC100	EVC250/EZCV250
Padlocking system	EZALOCK	-
Padlocking system for EVC250-3P	-	EZELOCK
Padlocking system for EVC250-4P and EZCV250-3/4P	-	EZELOCKN

PB101860-30



Sealing screws

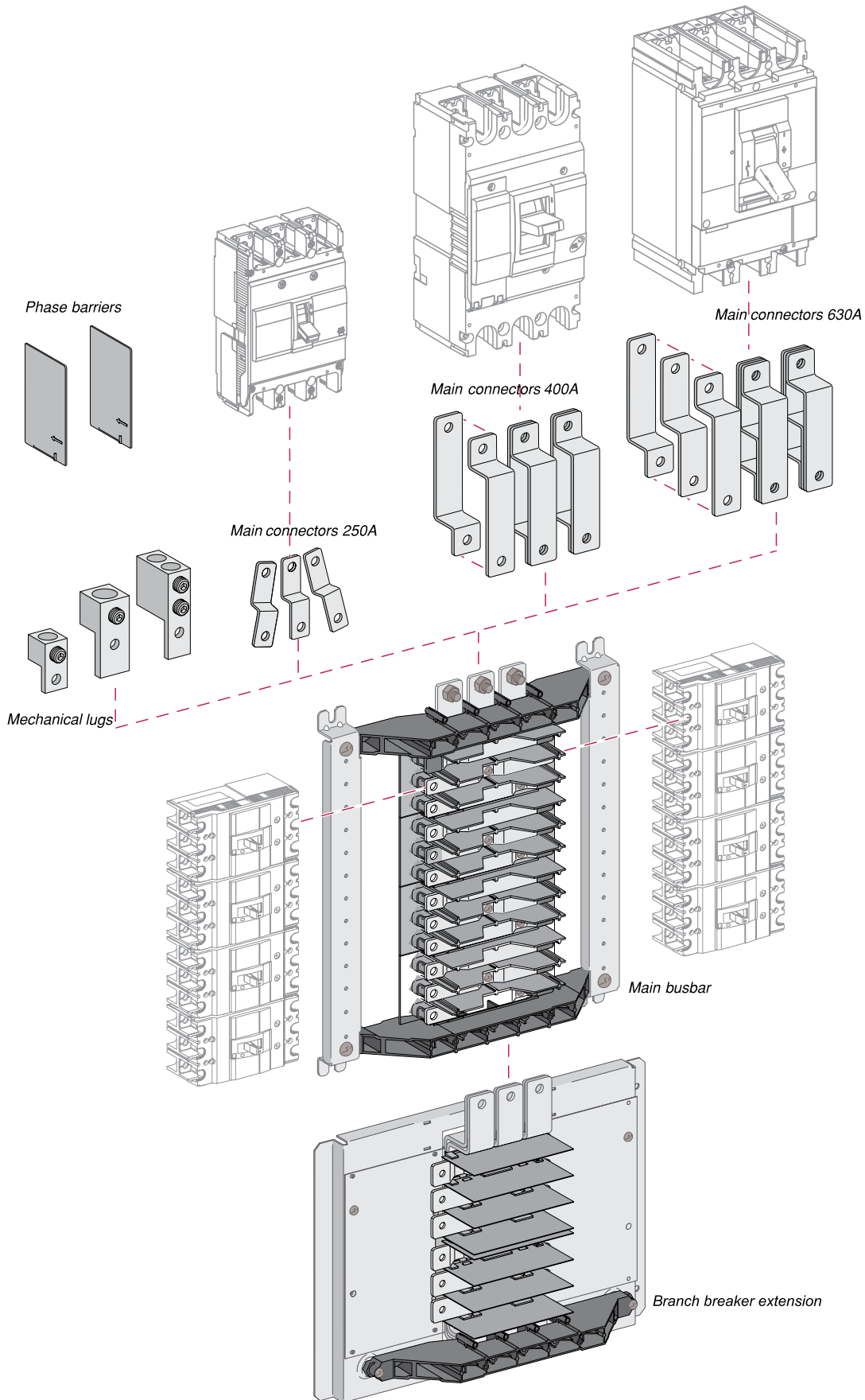
DB116406



Designation	Cat. no.	
	EZC100	EZC250/EZCV250
Sealing screws (set of 2)	EZASSCR	-

<i>Presentation</i>	<i>II</i>
<i>Functions and characteristics</i>	<i>A-1</i>
Introduction	B-2
Busbars characteristics	B-4
Main busbars and extension	B-5
Accessories	B-6
Dimensions	
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>

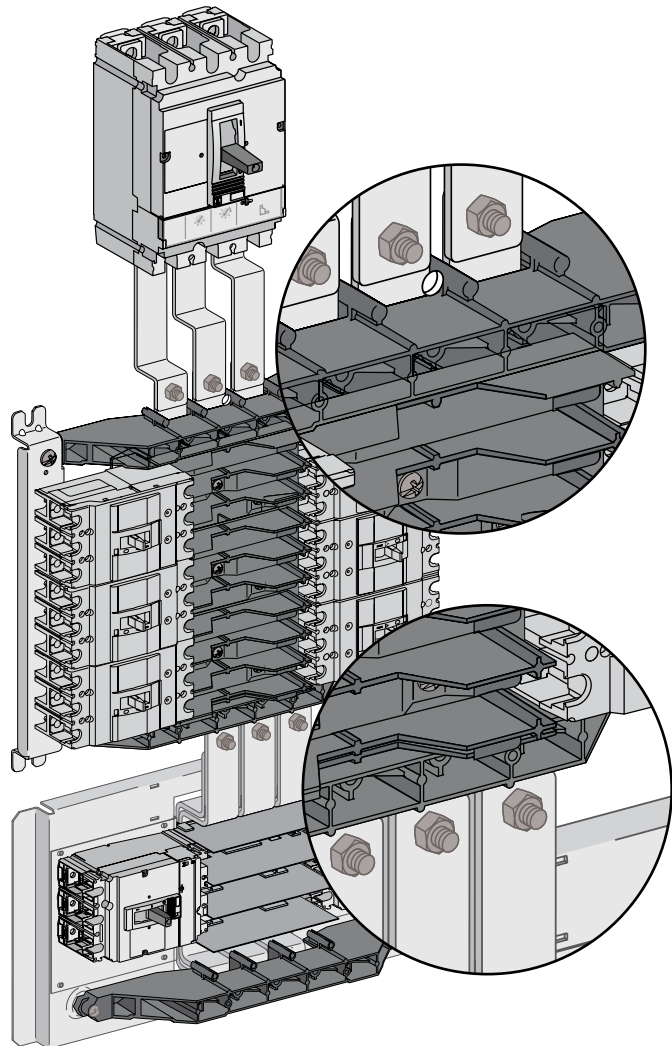
DB176419 eps



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:

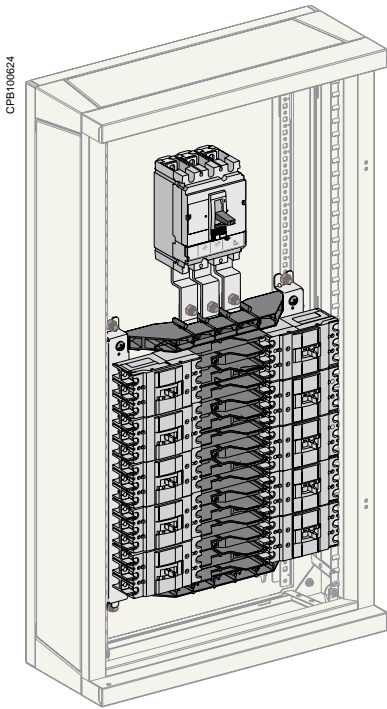
- available for 250 A, 400 A or 630 A main incoming current
- available for 4, 6, 8, 10 or 12 Ways (3 poles) EasyPact EZC 100 A (max.) outgoing MCCB's
- 400 A and 630 A systems can accept an additional 2 or 4 EasyPact EZC 250 or Compact NSX250 outgoing MCCB's
- designed and tested to meet IEC 60439-1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

CPB100623



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.



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 page C-18														
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

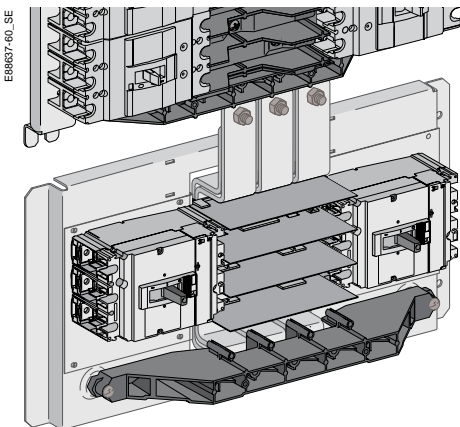
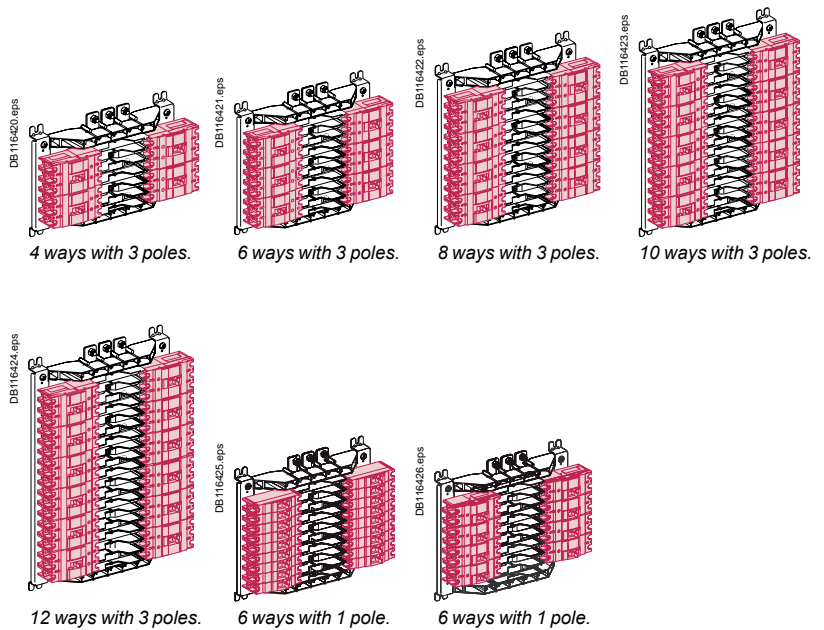


EasyPact Ezc Busbar EZB250W08.

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

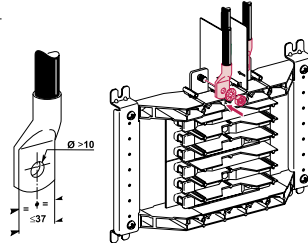
EB8301-50.eps



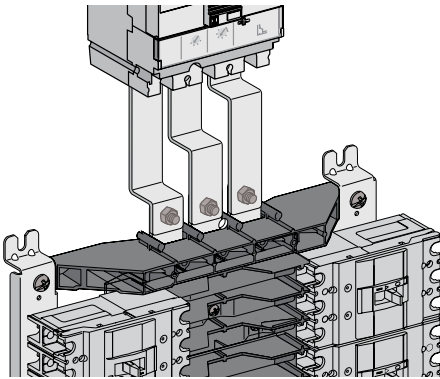
Main incoming connections

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

DB116427.eps



EZ117P-60_SE

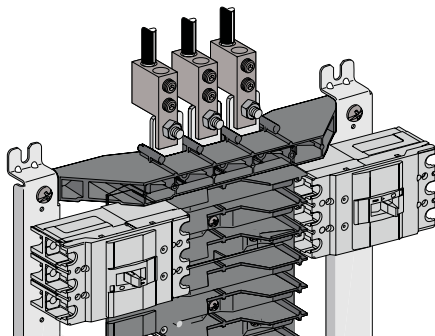


Main connectors

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

CD6600620_00

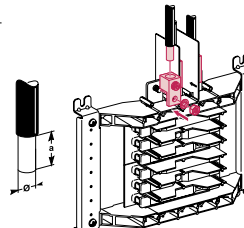


Mechanical lugs

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

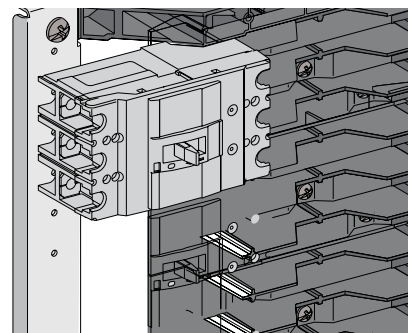
Designation	Cat. no.		
Main Busbar current rating	250 A	400 A	630 A
Incoming cable size	16-150 mm ²	35-300mm ²	25-240 mm ² 2 cables per phase
Lug kit	EZB250MLUG	EZB400MLUG	EZB630MLUG

DB116428.eps



	A	B	C
250 A			
a	\varnothing		
A	26	16-150 mm ²	31 Nm
B	35	35-300 mm ²	56 Nm
C	30	25-240 mm ²	56 Nm
60	25-240 mm ²	56 Nm	

EB8510-54_SE



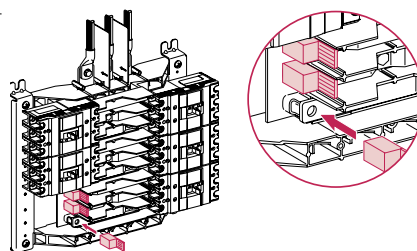
Connector caps

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



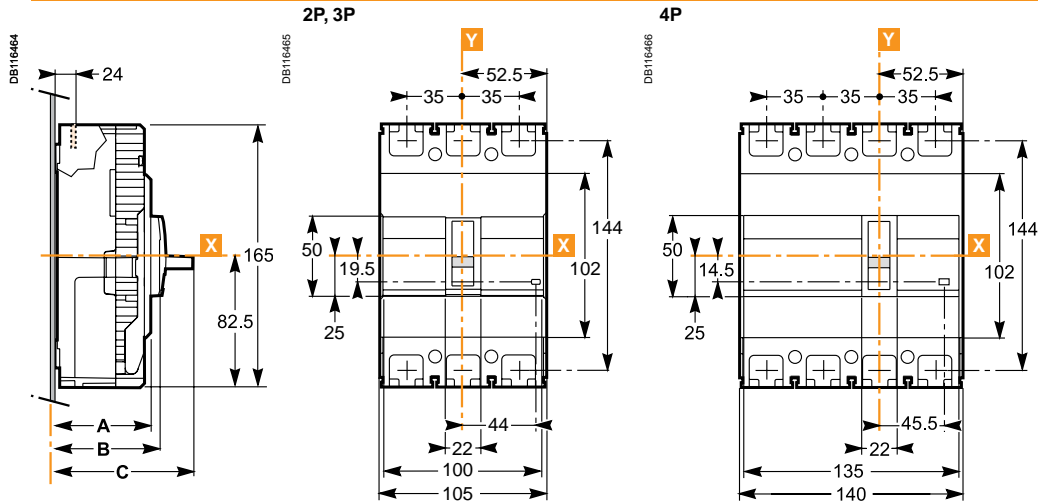
<i>Presentation</i>	<i>II</i>
<i>Functions and characteristics</i>	<i>A-1</i>
<i>Busbars</i>	<i>B-1</i>
Dimensions	
EasyPact EZC 100	C-2
EasyPact EZC 100 A with plug-in	C-4
EasyPact EZC 250 - EZC 250/EZCV 250	C-6
EasyPact EZC 250 A with plug-in	C-8
EasyPact EZC 400/630	C-10
EasyPact EZC 100 accessories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

Dimensions

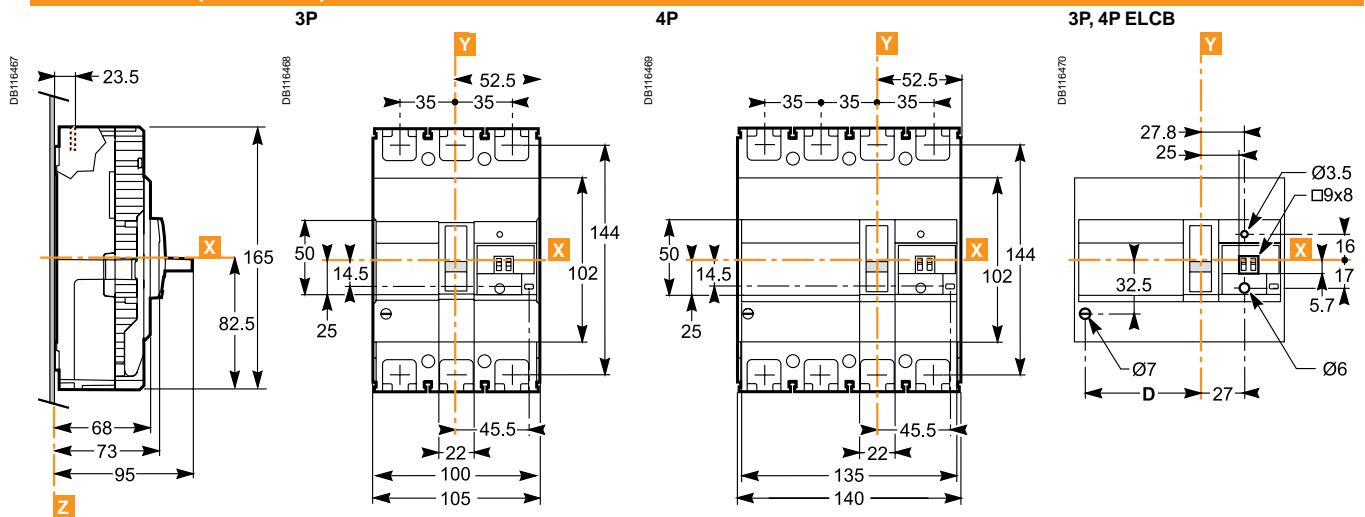
EasyPact EZC 250

EZC 250/EZCV 250

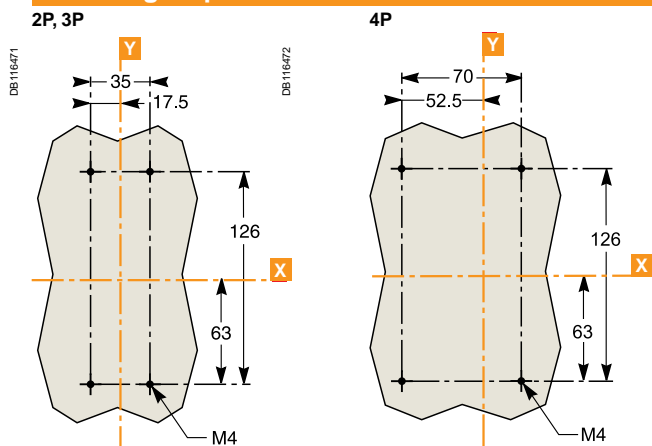
Dimensions (EZC250)



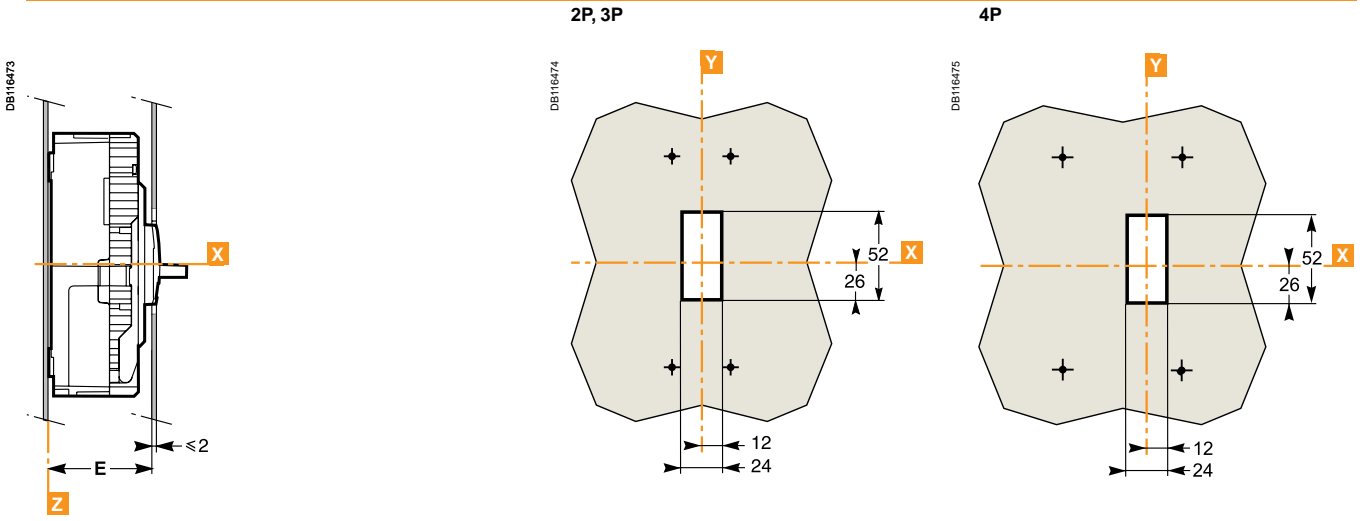
Dimensions (EZCV250)



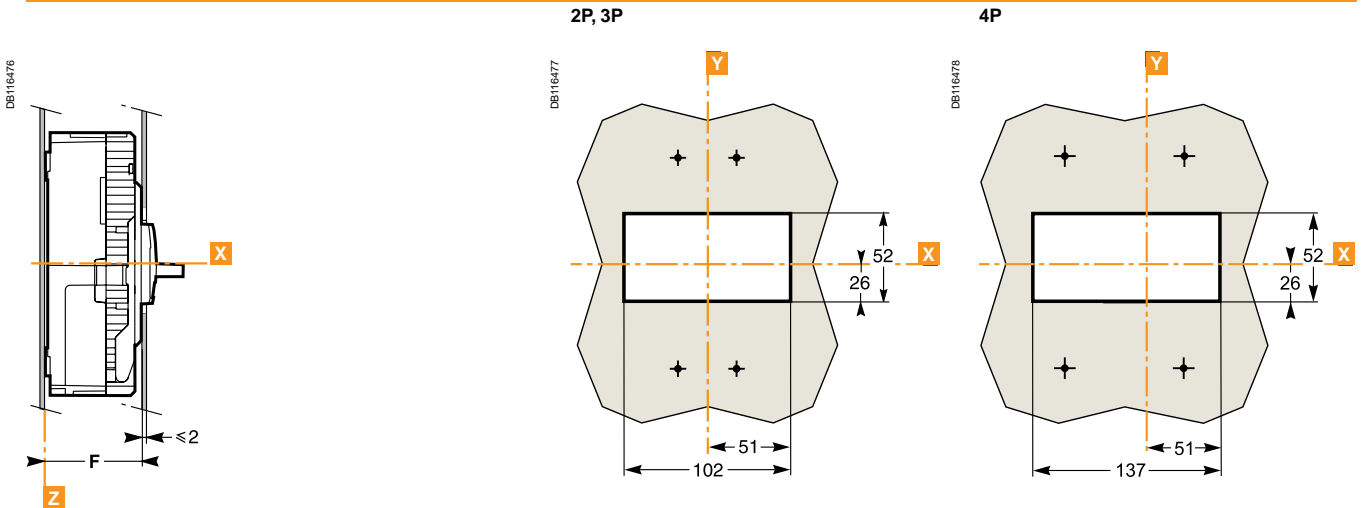
Mounting on plate



Door cut-out (small)



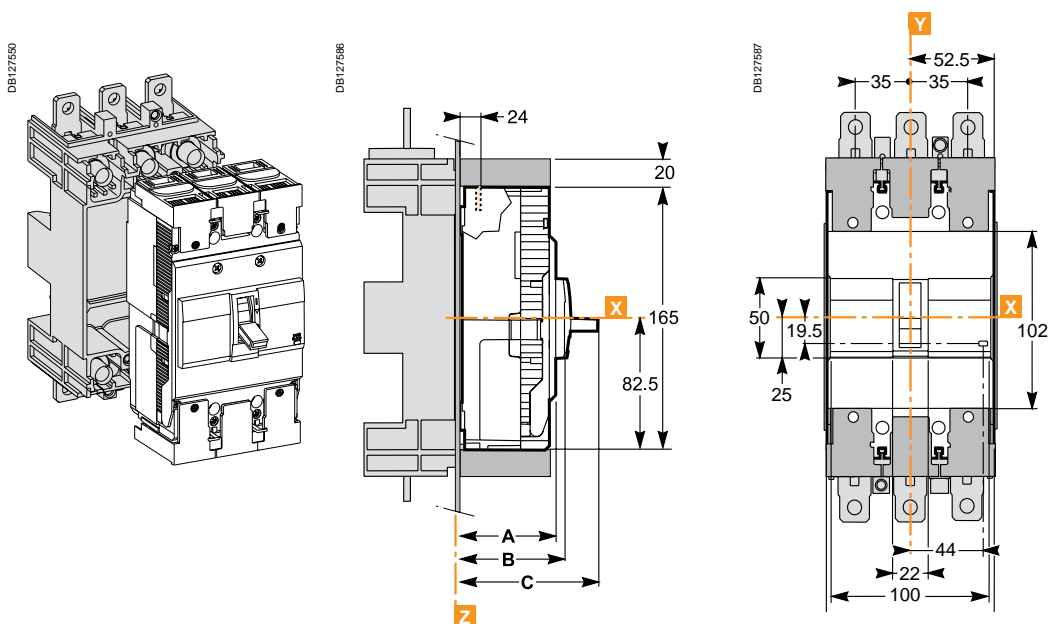
Door cut-out (large)



Dimensions (mm)

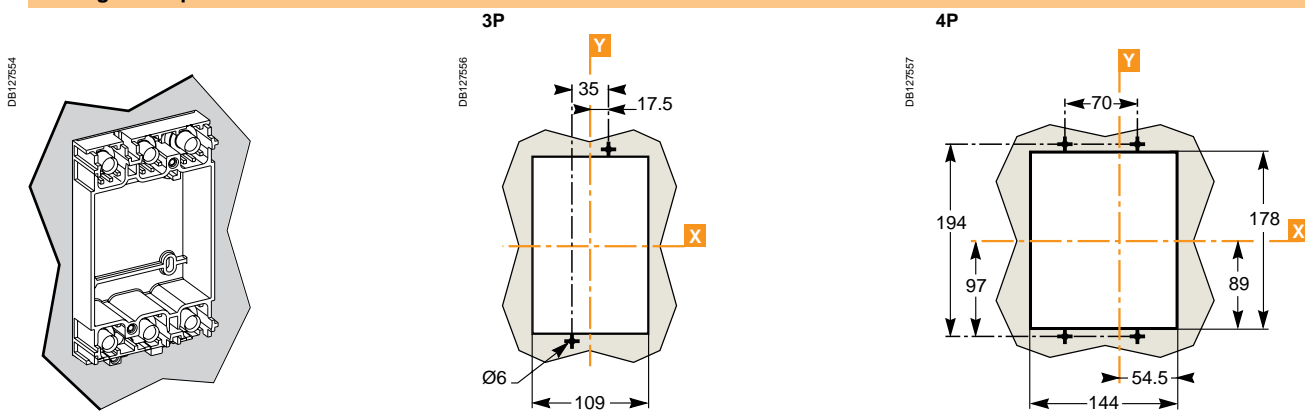
	A	B	C	D	E	F
EZC 2/3P	60	65	85.5	-	67	61
EZC 4P	68	73	95	-	75	69
EZCV 3P				45.5		
EZCV 4P				80.5		

Dimensions

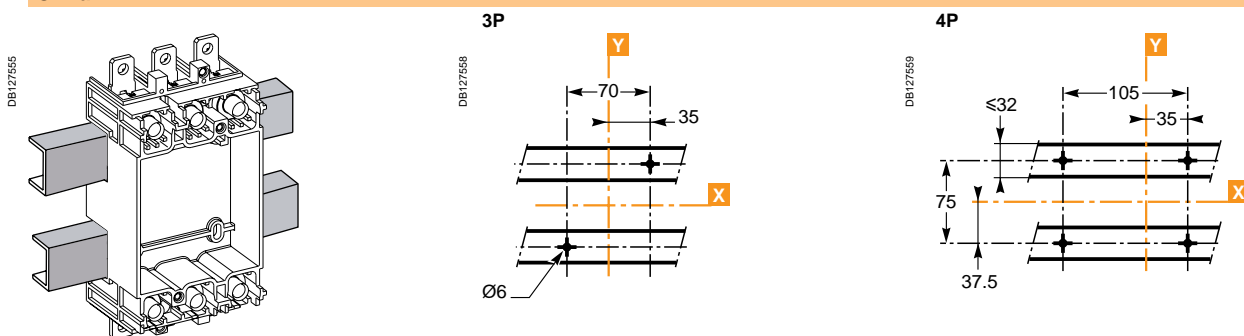


Mounting

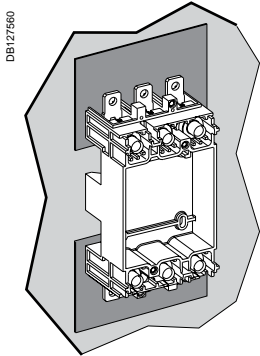
Through front panel



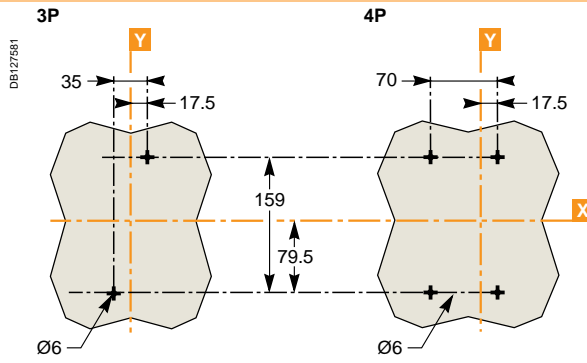
On rail



On backplate



DB127560

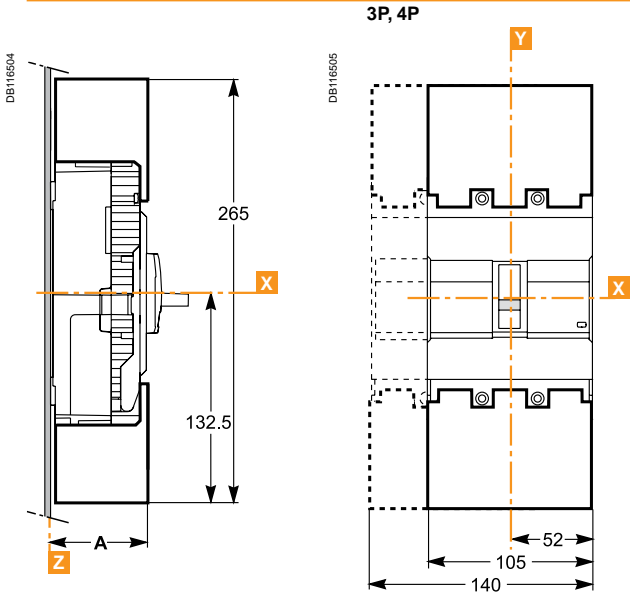


DB127561

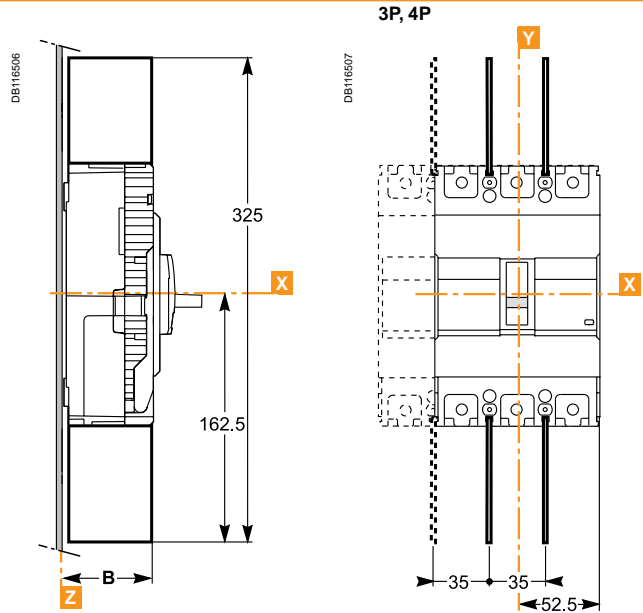
Dimensions

EasyPact EZC 250 accessories

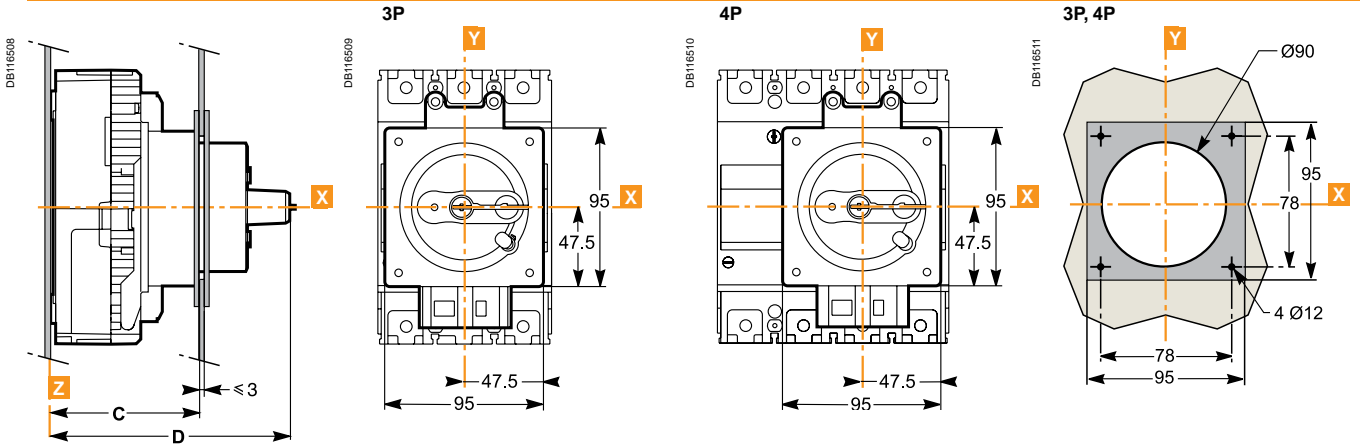
Terminal shields



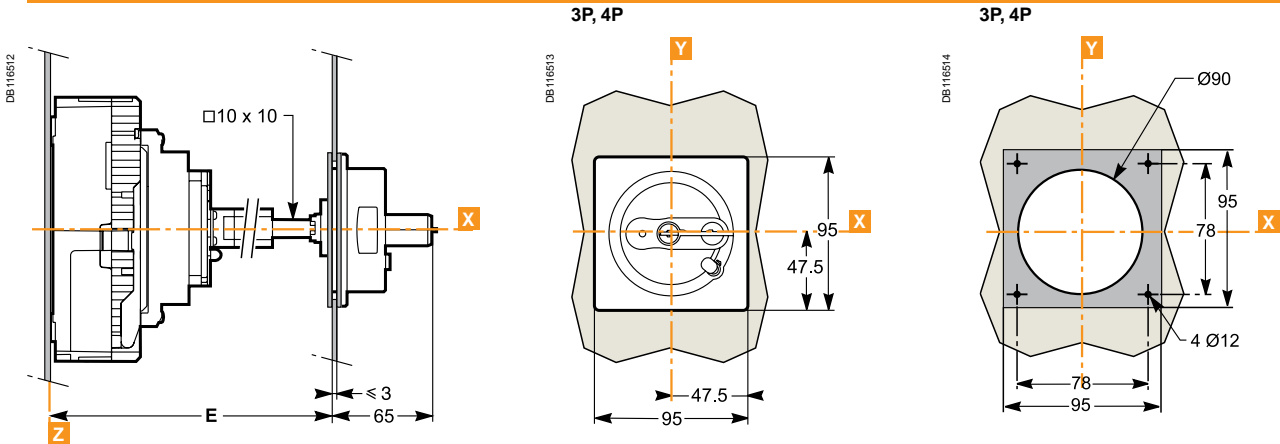
Phase barriers



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					

Safety clearances and minimum distances

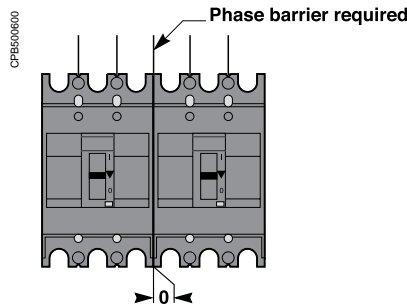
When installing a circuit breaker, minimum distances (safety clearances) must be maintained between the device and panels, bars and other protection devices installed nearby. These distances, which depend on the ultimate breaking capacity, are defined by tests carried out in accordance with standard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

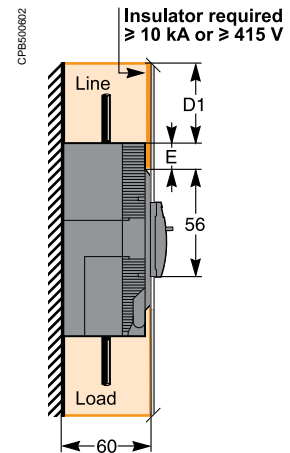
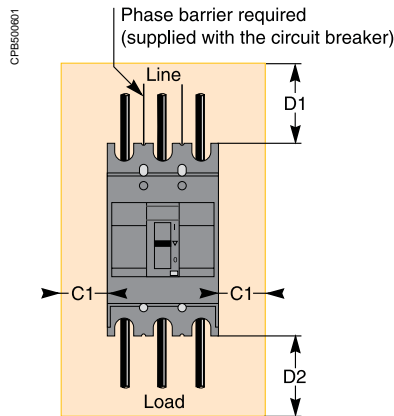
For EasyPact EZC breaker, terminal shields, inter-phase barriers or an insulation isolator are recommended and may be mandatory depending on the utilisation voltage and the type of installation.

Minimal distance between two adjacent circuit breakers



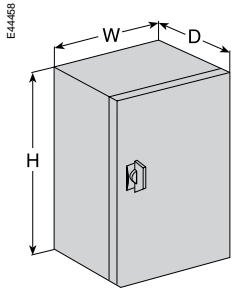
Minimal distance between the circuit breaker and top, bottom or side panels

Minimal distance between the circuit breaker and front or rear panels



Dimensions (mm)	Bare or painted sheet metal:					
	C1	insulated bars		bare busbar under voltage		
		D1	D2	D1	D2	E
EasyPact EZC circuit breaker						
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.



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) ⁽¹⁾	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.

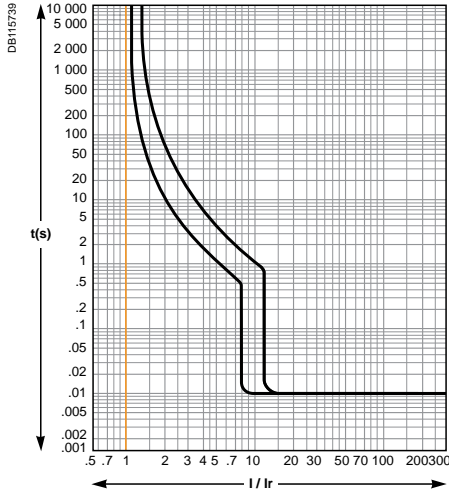
■ the permissible storage-temperature range for EasyPact EZC circuit breakers in the original packing is -35 °C to +85 °C.

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 (A)	25 °C	40 °C	45 °C	50 °C	55 °C	60 °C	65 °C	70 °C
EZC100								
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
EZC250								
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
EZCV250								
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
EZC400/630								
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

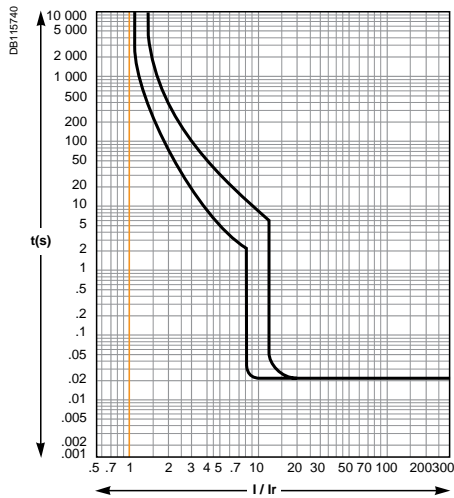
EasyPact EZC100 TM trip units (cont.)

100 A

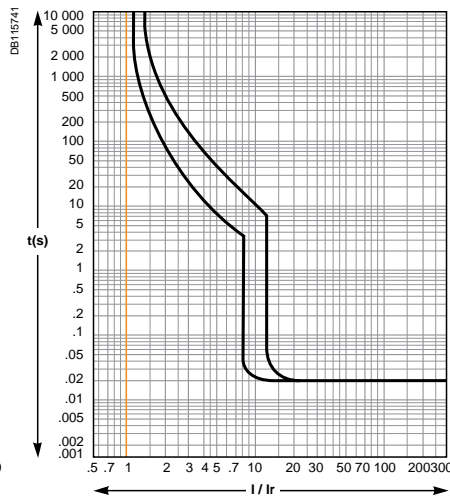


EasyPact EZC250 TM trip units

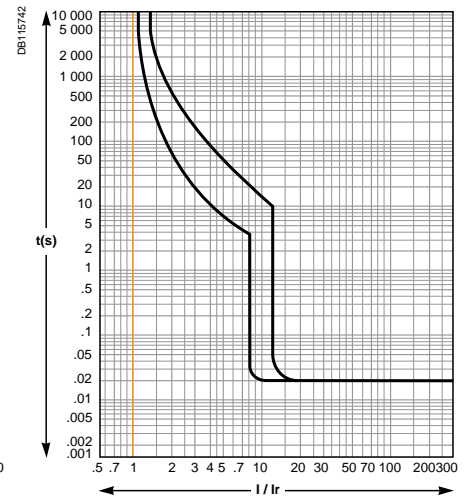
63-80-100-125 A



150-160-175-200 A

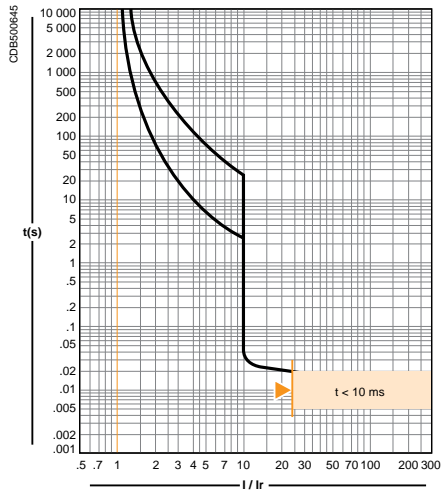


225-250 A



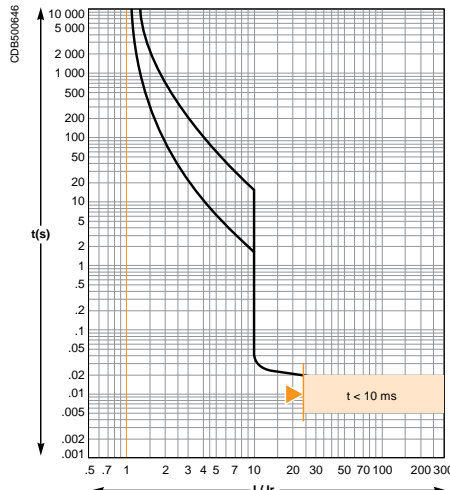
EasyPact EZC400 TM trip units

320-350-400 A

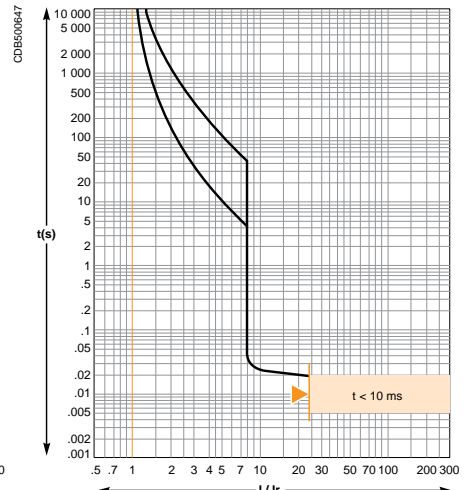


EasyPact EZC630 TM trip units

TM500D

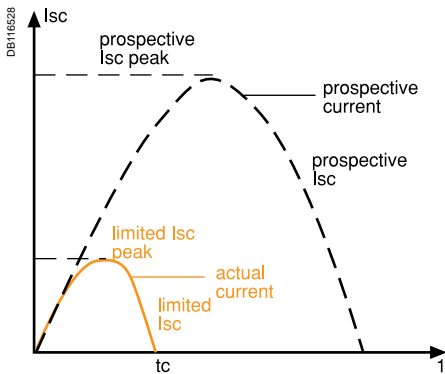


TM600D



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 Ics 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 Icu
- 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.

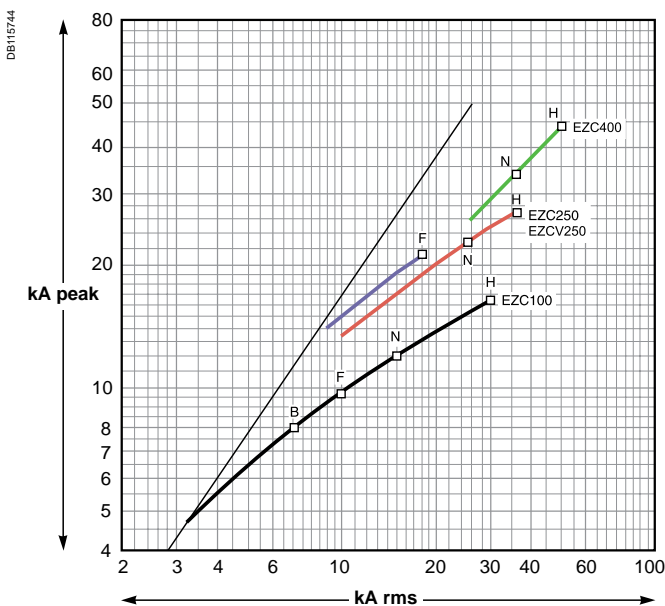
It follows that substantial savings can be made on downstream equipment and enclosures.

Current-limiting curves

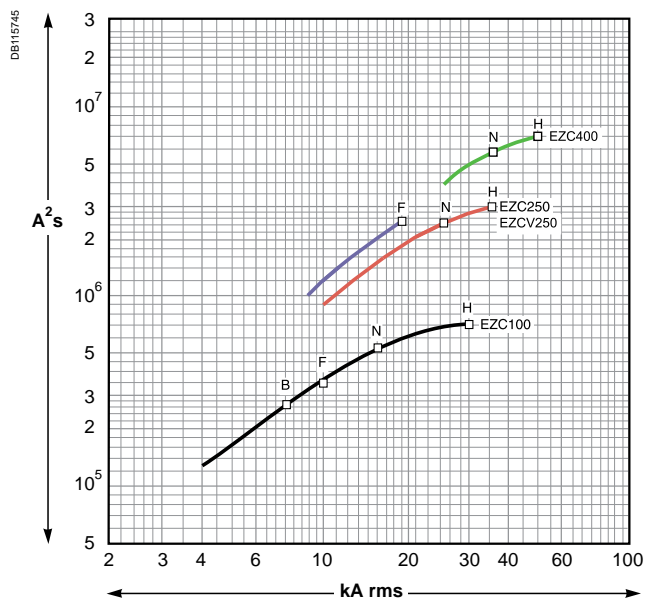
The current-limiting capacity of a circuit breaker is expressed by two curves which are a function of the prospective short-circuit current (the current which would flow if no protection devices were installed):

- 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 1Ω .

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.

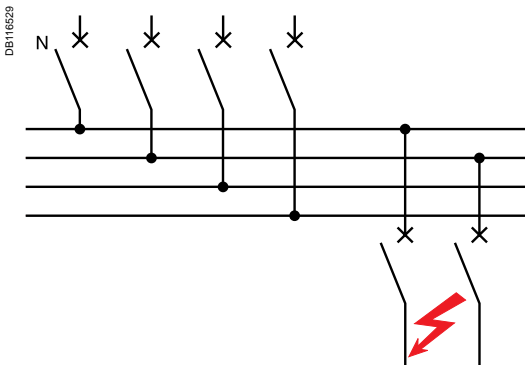
It follows that substantial savings can be made on downstream switchgear and enclosures.

Cascading tables

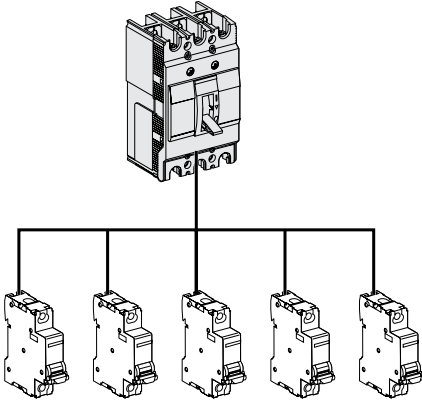
Schneider Electric cascading tables are:

- 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



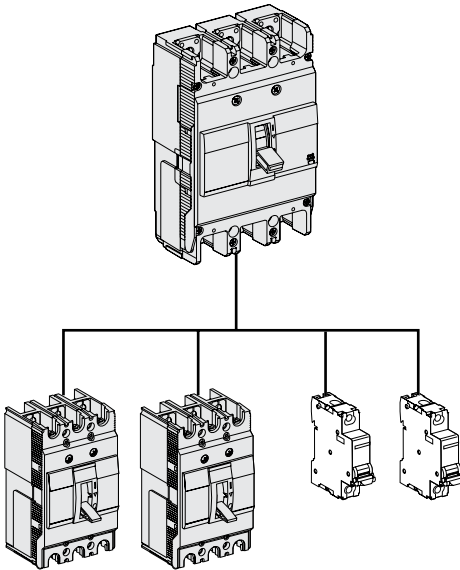
Network 220/240 V

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

Upstream	EZC250F	EZC250N EZCV250N	EZC250H 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 NB630	NSX400N NSX630N	NSX400H NSX630H
Breaking capacity kA rms	40	70	85	85	100
Downstream	Enhanced breaking capacity				
EZC100B	10	20	20	20	20
EZC100F	25	40	40	50	50
EZC100N	25	40	40	50	50
EZC100H	100	-	-	-	-
EZC250F	25	40	40	50	50
EZC/EZCV250N	50	-	70	85	85
EZC/EZCV250H	85	-	100	-	100

DB127585



Network 380/415 V

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

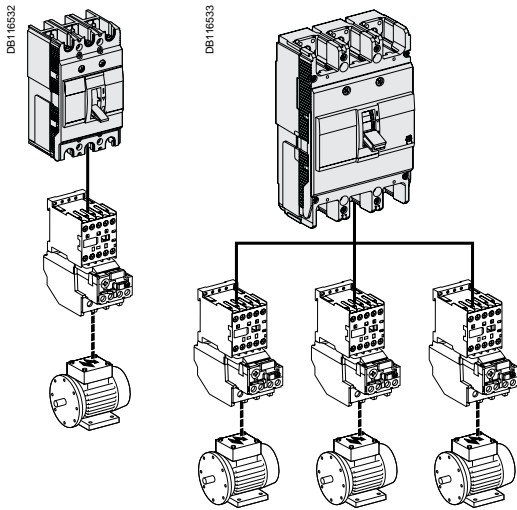
Upstream	EZC250F	EZC250N EZCV250N	EZC250H EZCV250H	NSX250H
Breaking capacity kA rms	18	25	36	70
Downstream	Enhanced breaking capacity			
EZC100B	7.5	-	-	15
EZC100F	10	15	15	30
EZC100N	15	20	25	50
EZC100H	30	-	36	70

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

Network 440 V

Upstream		EZC250F	EZC250N EZCV250N	EZC250H 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 NB630	NSX400N NSX630N	NSX400H 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.

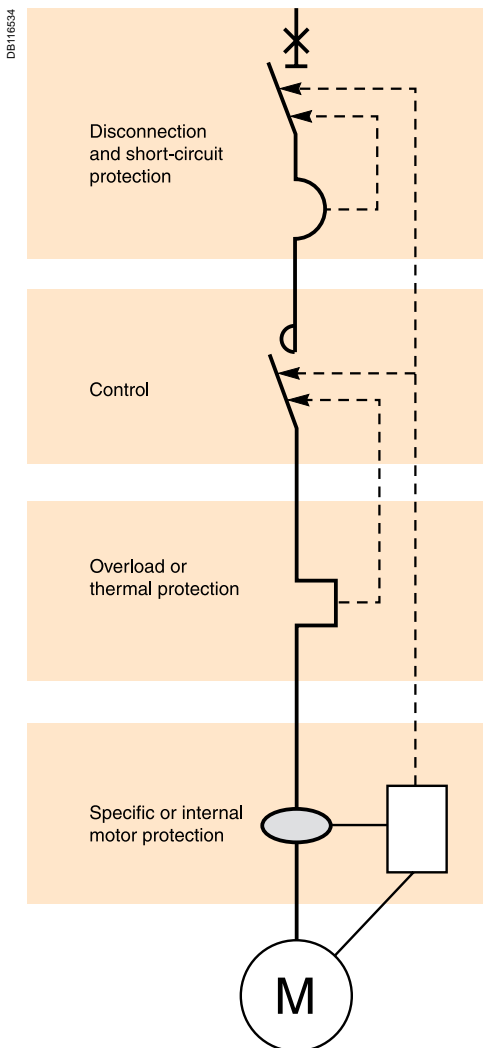
Short-circuit ($I > 50 I_n$)

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

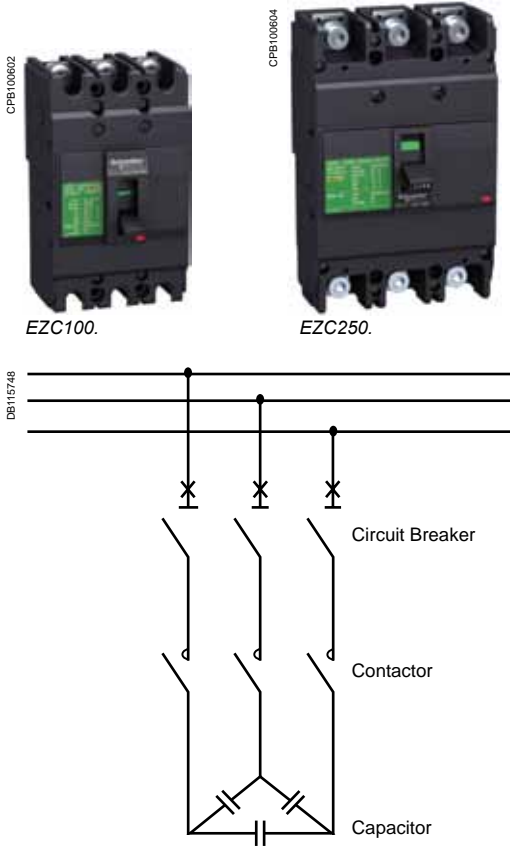
Protection against insulation faults

This type of protection may be provided by:

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



Motors P (kW)	220/230 V		Circuit breakers				Circuit breakers			Circuit breakers	
	I (A)	240 V I (A)	Type	Rating In (A)	380/400 V I (A)	415 V I (A)	Type	Rating In (A)	440 V I (A)	Type	Rating 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**

$$I_{nc} = \frac{Q_c}{U \sqrt{3}}$$

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



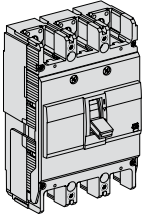
EZC250F/N/H 2P/3P

Circuit breaker

EasyPact EZC250F 3P 18 kA 400/415 V

With thermal magnetic trip unit

DB111751.eps

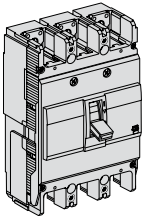


Rating	3P 3t
100 A	EZC250F3100
125 A	EZC250F3125
150 A	EZC250F3150
160 A	EZC250F3160
175 A	EZC250F3175
200 A	EZC250F3200
225 A	EZC250F3225
250 A	EZC250F3250

EasyPact EZC250N 3P 25 kA 400/415 V

With thermal magnetic trip unit

DB111751.eps

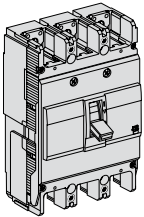


Rating	3P 3t
100 A	EZC250N3100
125 A	EZC250N3125
150 A	EZC250N3150
160 A	EZC250N3160
175 A	EZC250N3175
200 A	EZC250N3200
225 A	EZC250N3225
250 A	EZC250N3250

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

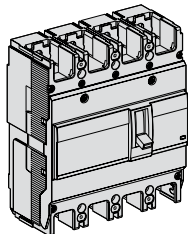
EZC250N/H 4P

Circuit breaker

EasyPact EZC250N 4P 25 kA 400/415 V

With thermal magnetic trip unit

DB111686.eps

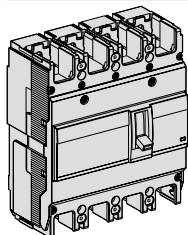


Rating	4P 3t	4P 4t
63 A	EZC250N4063	EZC250N44063
80 A	EZC250N4080	EZC250N44080
100 A	EZC250N4100	EZC250N44100
125 A	EZC250N4125	EZC250N44125
150 A	EZC250N4150	EZC250N44150
160 A	EZC250N4160	EZC250N44160
175 A	EZC250N4175	EZC250N44175
200 A	EZC250N4200	EZC250N44200
225 A	EZC250N4225	EZC250N44225
250 A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

EasyPact EZC250H 4P 36 kA 400/415 V

With thermal magnetic trip unit


DB111686.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

Connection accessories

Cable lugs

 DB10209.eps	250 A	Cables from 42 to 152 mm ²	Set of 3	EZELUG2503
			Set of 4	EZELUG2504

Terminal extensions

 DB11752.eps	Terminal extension for 3P breaker		Set of 3	EZETEX
	Terminal extension for 4P breaker		Set of 4	EZETEX4P

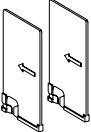
Spreaders

 DB11674.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	EZEFASB2
	Phase barriers for 68 mm depth		Set of 3	EZEFASB3N

Electrical auxiliaries

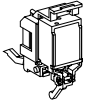
Indication contacts

 DB10212.eps	Auxiliary switch (AX)			EZEAX
 DB105213.eps	Alarm switch (AL)			EZEAL
 DB105214.eps	Auxiliary switch + alarm switch (AX + AL)			EZEAXAL
 DB11687.eps	Earth-leakage alarm switch (ALV) (only for EZCV250)			EZEALV

Electrical auxiliaries (cont.)

Voltage releases

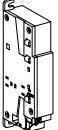
DB105215.eps



Shunt trip (SHT)

	Voltage	MX/SHT
AC	100-120 V	EZESHT100AC
	120-130 V	EZESHT120AC
	200-240 V	EZESHT200AC
	277 V	EZESHT277AC
	380-440 V	EZESHT400AC
DC	440-480 V	EZESHT440AC
	24 V	EZESHT024DC
	48 V	EZESHT048DC

DB11506.eps



(UVR)

DB11632.eps



(UVR)

Under voltage release

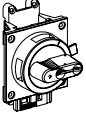
	Voltage	MN/UVR	MN/UVR ⁽¹⁾
AC	110-130 V	EZEUVR110AC	EZEUVRN110AC
	200-240 V	EZEUVR200AC	EZEUVRN200AC
	277 V	EZEUVR277AC	EZEUVRN277AC
	380-415 V	EZEUVR400AC	EZEUVRN400AC
	440-480 V	EZEUVR440AC	EZEUVRN440AC
DC	24 V	EZEUVR024DC	EZEUVRN024DC
	48 V	EZEUVR048DC	EZEUVRN048DC
	125 V	EZEUVR125DC	EZEUVRN125DC

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

Rotary handles

Direct rotary handle

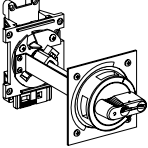
DB105216.eps



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

Extended rotary handle

DB105217.eps



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

Locks

Padlocking system

DB105218.eps

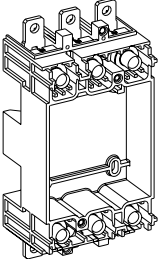


Padlocking system for EZC250-3P	EZELOCK
Padlocking system for EZC250-4P and EZCV250-3/4P	EZELOCKN

Plug-in

Plug-in 250 A

DB127593.eps



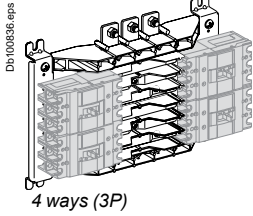
Kit, plug-in base 3P 100 A-250 A 60 mm breaker	EZEPLUG3L
Kit, plug-in base 3P 100 A-250 A 68 mm breaker	EZEPLUG3H
Kit, plug-in base 4P 100 A-250 A 68 mm breaker	EZEPLUG4
Kit, plug-in connectors 100 A-250 A set of 2	EZEPCON1

EasyPact EZC Busbar

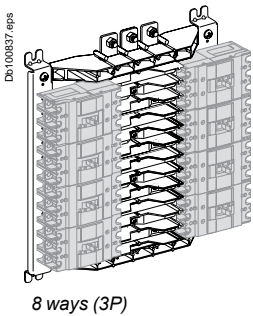
Type-tested solution IEC 60439

Main Busbar

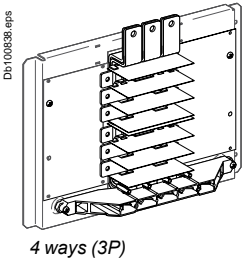
Main Busbar (EasyPact EZC 100/3P)



	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



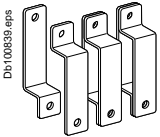
Branch extension (EasyPact EZC/Compact NSX/NB)



2 ways	EZBNS2
4 ways	EZBNS4

Main incoming connections (EasyPact EZC/Compact NSX/NB)

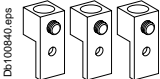
Main connectors



	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 ²	35-300 mm ²	25-240 mm ² 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