EasyPact EZC

Moulded-case circuit breakers from 15 to 630 A

Catalog 2017









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



OFM







EasyPactTM 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 (1)
- IACS for Merchant Marine (International Association of Classification Societies: ABS, BV, CCS, DNV, GL, KRS, LR, NK, RINA)**

(1) 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

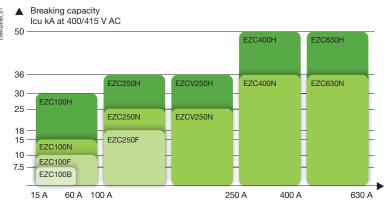
(Restriction of Hazardous Substances)

So easy, so simple

Easy to choose

EasyPact™ EZC brings you easy solutions

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



Easy to install

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

Easy to use

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



Built-in Integrated Earth-Leakage Circuit Breaker (ECLB) function

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



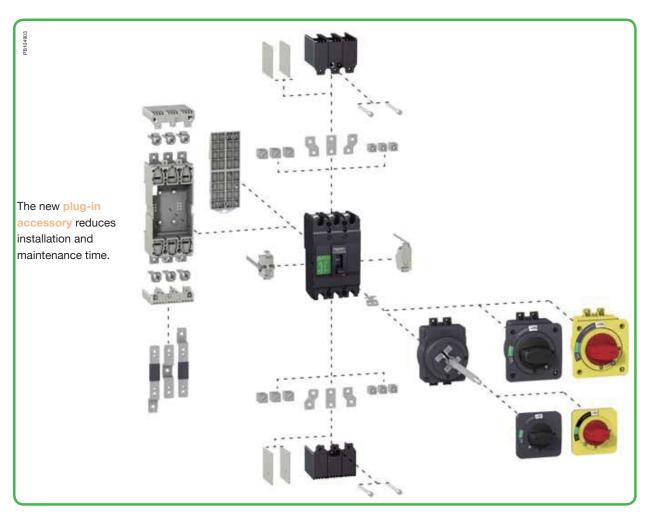
EasyPact™EZC: Build your complete solution with Schneider Electric



delivery, wherever vou are

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

Accessories











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



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

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

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

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

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

RoHS

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

REACh

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

PEP: Product Environmental Profile

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

EoLl: Fnd of Life Instructions

Available at a click, these documents provide:

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



Discover what we mean by green and

CHECK a PRODUCT!

General contents

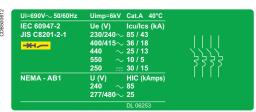
Functions and characteristics	A-1
Busbars	B-1
Installation guide	C-1
Catalogue numbers	D-1

Functions and characteristics

Presentation	1
General characteristics	A-2
Selection table	Α-(
Electrical and mechanical accessories overview	
EasyPact EZC100	A-1
EasyPact EZC250	A-1
EasyPact EZCV250	A-1
EasyPact EZC400-630	A-1
Electrical auxiliaries 100-250AF	
AX - AL - AXAL - ALV	A-1
SHT - UVR - UVRN	A-1
Direct rotary handle 100-250AF	A-18
Extended rotary handle 100-250AF	A-19
Plug-in	
100 A	A-2
Insulation of live parts	A-2
250 A	A-2
Insulation of live parts	A-2
Power connections and cable lugs 100-250AF	A-2
Power connections and insulation of live parts	
100-250AF	A-2
DIN rail adaptor, padlocking, sealing screws 100-250AF	A-26
Accessories and auxiliaries of EZC400-630	
Connection of devices	A-2
Selection of auxiliaries	A-29
Indication contacts	A-3
Remote tripping	A-3
Rotary handles escutcheons and protection collars	A-32
Locks and sealing accessories	A-3
Busbars	B-
Installation guide	C-
Catalogue numbers	D-

General characteristics

Schneider Electric EasyPact[™] EZC 250N



Standardised characteristics indicated on the rating plate:

Ui: rated insulation voltage
Uimp: rated impulse withstand voltage

Ue: rated impulse withstand voltage

Icu: ultimate breaking capacity, for various values of the rated operational voltage Ue

Cat: utilisation category
lcs: service breaking capacity
n: rated current
suitability for isolation

Compliance with standards

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

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

Approvals and Certifications

- IEC certification by independent laboratories (ASEFA, KEMA, TÜV)
- (€ marking
- certified by third party Tilva
- UL 60947-4-1(old UL508) certified by third party Underwriter Laboratories as a "Manual Motor Controller" (EZC100/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, 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.

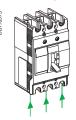
EasyPact EZC circuit breakers take into account important concerns for environmental protection. Most components are recyclable and the parts are marked as specified in applicable standards.







Installation positions.



Reverse feeding.

Ambient temperature

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

Installation

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

Power supply

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

This capability facilitates connection when installed in a switchboard.

Degree of protection

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

	Bare circuit breake	r with termi	inal shields		
DB116376			With toggle	IP20	IK07
DB116377			With direct rotary handle standard	IP40	IK07
	Circuit breaker inst	alled in a s			
DB116378	NO SHIBOD		With toggle	IP40	IK07
DB116380			With direct rotary handle standard/VDE MCC	IP54	IK07
DB116381			With extended rotary handle	IP54	IK08

General characteristics (cont.)



LINE LINE

- 1 Line-Load (Ue > 300 VAC)
- 2 Mechanical indicator (ELCB)
- 3 Adjustable settings IDn and time delay
- 4 ELCB test button
- 5 Push to trip button (MCCB)
- 6 Dielectric tests: disconnecting switch

Earth-leakage protection

EasyPact EZC circuit breakers have a specific version including earth-leakage protection.

This protection is fully integrated inside the breaker and does not require any additional space.

EasyPact EZC circuit breakers and earth-leakage circuit breakers are fully interchangeable.

Compliance with standards

EasyPact EZC earth-leakage circuit breakers comply with all the international standards listed page A-2:

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

They also comply with:

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

Power supply

Reverse feeding

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

Power supply of the electronics

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

Dielectric tests

EasyPact EZC earth-leakage circuit breakers are equipped with a disconnecting switch in order to protect the electronics during dielectric tests.

When the disconnecting switch is activated, the circuit breaker is automatically tripped. It is mechanically impossible to switch on the circuit breaker, until the earth-leakage function is re-energised.

Tripping features

Tripping indications:

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

Resetting

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

ELCB protection characteristics

Sensitivity IDn (A)		adjustable	0.1 - 0.3 - 0.5 - 1
Time delay	Intentional delay (ms)	adjustable	0 - 200 - 500 - 1000
	Max. breaking time (s)		0.15 - 0.4 - 1 - 2
Rated voltage	AC 50/60 Hz (V)		100440

Earth-leakage circuit breakers

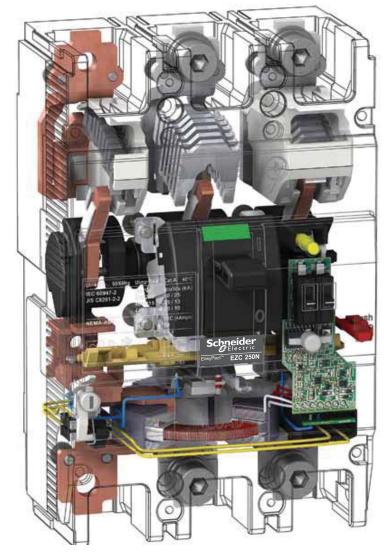
With three built-in protections:

■ 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



Selection table



EZC100-1P.



EZC100-2P.



EZC100-3P.



EZC100-4P.



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 6094	7-2, EN 60	947-2, JIS C	8201-2-1
Ultimate breaking capacity (kA rms)	lcu	AC 50/60 Hz	110/130 V
			220/230/240 V
			380 V
			400/415 V
			440 V
			550 V
		DC	125 V (1P)
			250 V
B () () () ()		0/ 1	(2P in series)
Rated service breaking capacity (kA rms)	Ics	% Icu	110-400 V
Outlieb Why feetenberg			415-550 V
Suitability for isolation			
Utilisation category			
Pollution degree Endurance (C-O cycles)	Mechanical		
Endurance (C-O cycles)	Electrical	In/415 V	
Electrical characteristics as per NEMA-A		11/415 V	
Breaking capacity (kA rms)	HIC	AC 50/60 Hz	240 V
Broaking sapasity (is time)	10	710 00/00 112	277/480 V
Protection			2117-100 1
Overload protection	Bimetal		
Instantaneous protection	Magnetic		Fixed (±20 %)
Auxiliaries			
Indication contacts	Auxiliary sw	ritch	AX
maioanon oo nado	Alarm switc		AL
	Combined A		AXAL
Voltage releases	Shunt trip re	elease	SHT
G	Undervoltag		UVR
Installation			
Connection	Crimp lugs/l	bars	
Accessories	Box lugs for	bare cables	
	Rotary hand		Direct
			Extended
	Terminal ex	tensions	
	Spreaders		
	Phase barri	ers	
	Terminal sh	ields	
	Padlocking	-	
	DIN rail ada	ptor	
Dimension and weight			
Dimensions (mm)	DxH		
	W		

Weight (kg)

EZC100B	EZC100F	EZC100N		EZC100H		EZC250F	EZC250N	EZC250H
=						-	•	
		-	(4)	_	(4)			
3	3	1	3-4	1	2-3-4	3	3	2-3
15, 16, 20, 25,	15, 16, 20, 25,	15, 16, 20, 25,	15, 16, 20, 25,	15, 16, 20, 25,	15, 16, 20, 25,	100, 125, 150,	100, 125, 150,	100, 125, 15
30, 32, 40, 45,	30, 32, 40, 45,	30, 32, 40, 45,	30, 32, 40, 45,	30, 32, 40, 45,	30, 32, 40, 45,	160, 175, 200,	160, 175, 200,	160, 175, 20
50, 60	50, 60, 63, 75,	50, 60, 63, 75,	50, 60, 63, 75,	50, 60, 63, 75,	50, 60, 63, 75,	225, 250	225, 250	225, 250
	80, 100	80, 100	80, 100	80, 100	80, 100			
690	690	690	690	690	690	690	690	690
6	6	6	6	6	6	6	6	6
550	550	415	550	415	550	550	550	550
-	250	125	250	125	250	250	250	250
10	25	25	25	50	100	25	50	85
10	25	18	25	25	100 (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
	Ü		Ü				20	
25 %	50 %	50 %	50 %	50 %	50 %	50 %	50 %	50 %
25 %	50 %	50 %	50 %	50 %	25 %	50 %	50 %	50 %
Α	A	A	A	A	A	A	A	A
3	3	3	3	3	3	3	3	3
13 000	13 000	13 000	13 000	13 000	13 000	10 000	10 000	10 000
4 000	4 000	4 000	4 000	4 000	4 000	5 000	5 000	5 000
7 000	4 000	+ 000	4 000	4 000	+ 000	3 000	3 000	3 000
		40	25	40	400	25	50	0.5
-	-	10	25	18	100	25	50	85
-	-	10 ⁽²⁾	10	18 ⁽²⁾	18 ⁽³⁾	15	18	25 ⁽³⁾
						1		
fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed
fixed	fixed	fixed	fixed	fixed	fixed	10 ln	10 ln	10 ln
•	•	-	•	-			•	-
•	•	-	•	-	•	•	•	•
•		-		-		•		
•		-		-		•		
•		-		-		-		
	•	•	•	•	•		•	-
	•	_		-	(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)	25	50 (2P)	105	105	105
			100 (4P)		75 (3P)			
0.70	0.70	0.00	0.70 (00)	0.20	100 (4P)	4.2	4.0	4.4 (05)
0.78	0.78	0.28	0.78 (3P) 1.0 (4P)	0.28	0.6 (2P) 0.78 (3P)	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.

Selection table (cont.)



EZC250-4P.



EZCV250-4P.



EZC400-3P.

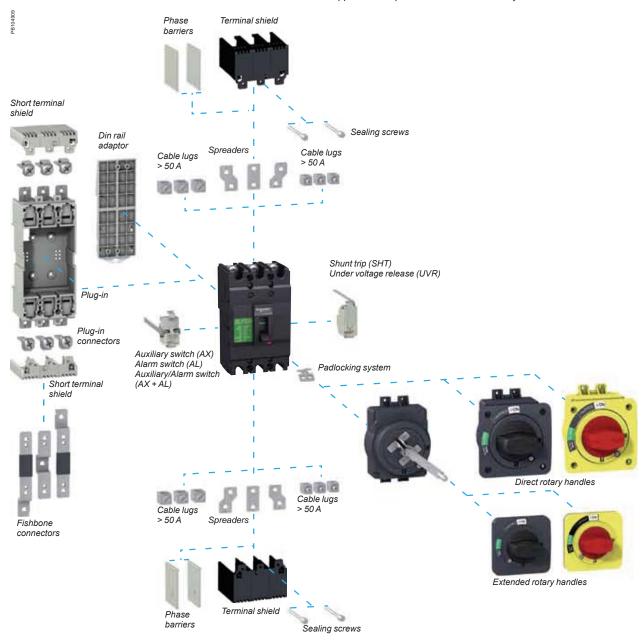
EasyPact EZC circuit bi	reakers		
Fixed version			
Plug-in version			
Number of poles			
Rated current (A)	In	at 40 °C	
Rated insulation voltage (V)	Ui		
Rated impulse withstand voltage (kV) Uimp		
Rated operational voltage (V)	Ue	AC 50/60 Hz	
		DC	
Electrical characteristics as p	oer IEC 60947-2, EN (60947-2 and	JIS C8201-2-1/C8201-2-2
Ultimate breaking capacity (kA rms)	lcu	AC 50/60 Hz	
			380 V
			400/415 V
			440 V
			550 V
		DC	125 V (1P)
			250 V
			(2P in series)
Rated service breaking capacity (kA rms)	Ics	% Icu	
Suitability for isolation			
Utilisation category			
Pollution degree			
Endurance (C-O cycles)	Mechanical		
	Electrical	In/415 V	
Electrical characteristics as p	er NEMA-AB1		
Breaking capacity (kA rms)	HIC	AC 50/60 Hz	240 V
			277/480 V
Protection			
Overload protection	Bimetal		
Instantaneous protection	Magnetic		fixed (± 20 %)
Earth-leakage protection			
Sensitivity (A)	l∆n		adjustable
Time-delay (ms)	Δt		adjustable
Max. breaking time (s)	at 2 I∆n		
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 cable	S	
	Rotary handles	Direct	
	•	Extended	
	Terminal extensions		
	Spreaders		
	Phase barriers		
	Terminal shields		
	Padlocking system		
Dimension and weight	. adiooning system		
	DvH		
Dimensions (mm)	DxH		
	W		

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,	63, 80, 100, 125,	63, 80, 100, 125,	63, 80, 100, 125,	320, 350, 400	320, 350, 400	400, 500, 600	400, 500, 600
150, 160, 175,	150, 160, 175,	150, 160, 175,	150, 160, 175, 200,	320, 330, 400	020, 000, 400	400, 300, 000	400, 500, 600
200, 225, 250	200, 225, 250	200, 225, 250	225, 250				
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 ln	10 In	10 In	10 In	10 ln	10 In (400/500A)	10 In (400/500A)
10 111	10 111	10111	10111	10111	10 111	5000A (600A)	5000A (600A)
						000011(00011)	000071(00071)
	_	0.4/0.0/0.5/4	0.4/0.2/0.5/4		_		_
-		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	-	-	-	-
•		•	•	•	•	•	•
•		•		•		•	•
				-	-	-	-
-	-	•		-	-	-	-
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•		•		•		•	
•	•	•	•		•		•
60 v 165	60 v 165	60 v 165	60 v 165	110 × 255	110 × 255	110 × 255	110 × 255
68 x 165	68 x 165	68 x 165	68 x 165	110 x 255	110 x 255	110 x 255	110 x 255
140	140	105 (3P) 140 (4P)	105 (3P) 140 (4P)	140 (3P)	140 (3P) 185 (4P)	140 (3P) 185 (4P)	140 (3P) 185 (4P)
1.0	1.0			185 (4P)			
1.8	1.8	1.6 (3P)	1.6 (3P)	4.8 (3P)	4.8 (3P) 6.4 (4P)	4.8 (3P)	4.8 (3P)
		2.1 (4P)	2.1 (4P)	6.4 (4P)		6.4 (4P)	6.4 (4P)

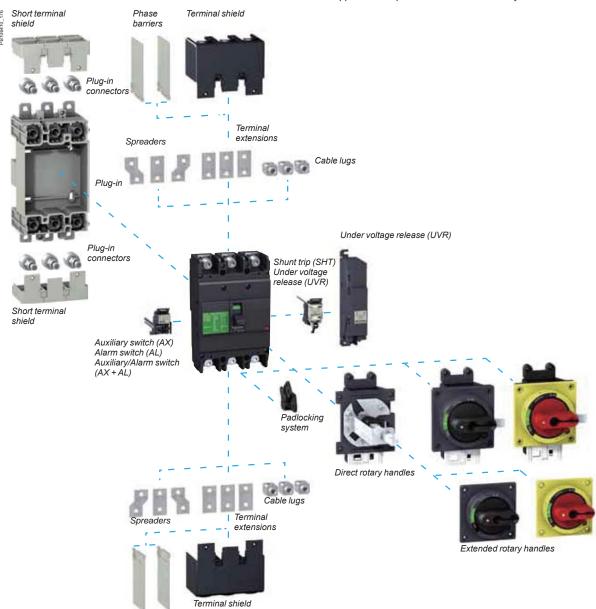
Electrical and mechanical accessories overview

EasyPact EZC100

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



EasyPact EZC250



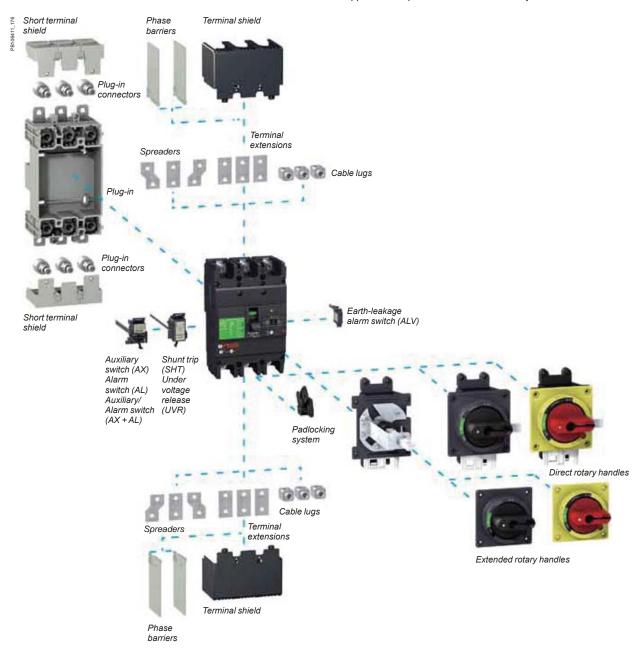
Phase barriers

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

Electrical and mechanical accessories overview

EasyPact EZCV250

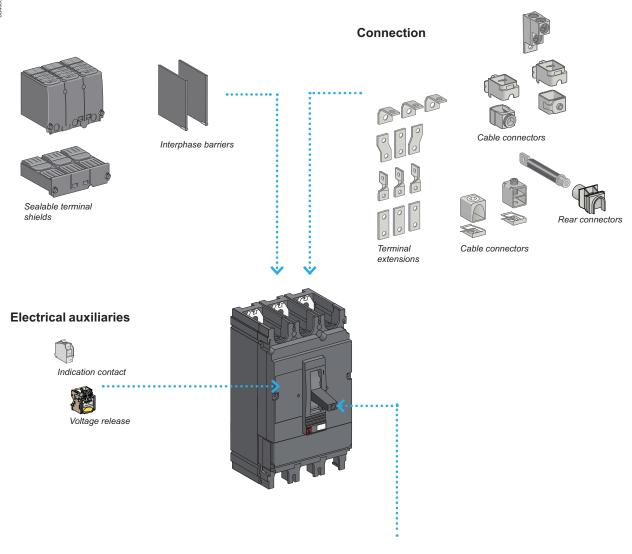
EasyPact EZC circuit breaker EZCV250 comes with a full range of accessories to fulfill different application requirements and make it easy for the end-user.



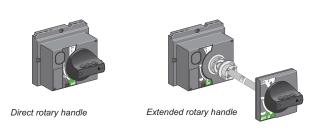
EasyPact EZC400-630

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

Insulation accessories



Control accessories

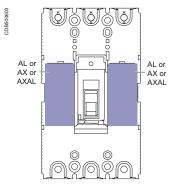


Electrical auxiliaries 100-250AF

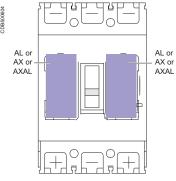
AX-AL-AXAL-ALV



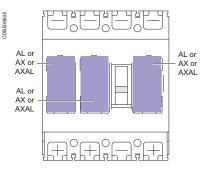
EZC100.



AXAL and AX electrical auxiliaries on EZC100.

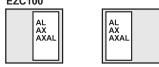


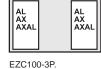
AXAL electrical auxiliaries on EZC250.



AXAL, AX and ALV electrical auxiliaries on EZCV250.

Plug-in location: AX - AL - AXAL - ALV EZC100

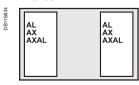


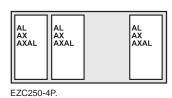




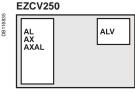
EZC250

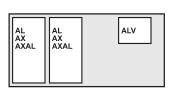
EZC100-2P.





EZC250-3P.





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:
- $\hfill\square$ 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.

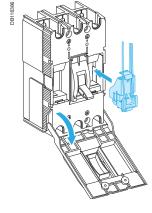
Characteristics

911a1 a0101 101100								
Contacts								
Rated thermal current (A	A)	5	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:	EZC100: 1 mm ² ,					
		EZC250/	EZCV250: 1.5	5 mm²				

Auxiliary switch (AX) EZAUX10.



Auxiliary switch (AX) EZEAX.





All EasyPact EZC electrical auxiliaires are "snapped in place"



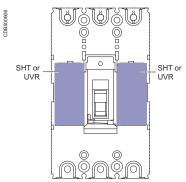
Earth-leakage alarm switch (ALV).

Electrical auxiliaries 100-250AF

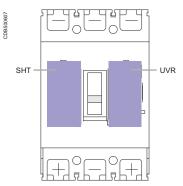
SHT-UVR-UVRN



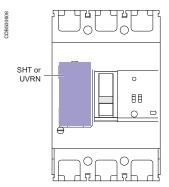
EZC250.



SHT and UVR releases on EZC100.



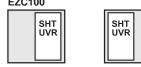
SHT and UVR releases on EZC250.



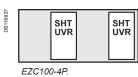
UVRN release on EZCV250.

Plug-in location: SHT-UVR-UVRN EZC100

EZC100-3P.

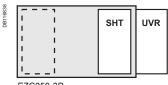


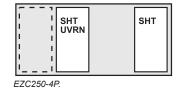




EZC250

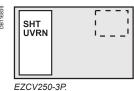
EZC100-2P.

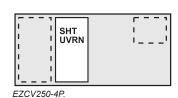




EZC250-3P.

EZCV250





Remote tripping

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

Shunt Trip (SHT)

- This release trips the circuit breaker when the control voltage rises above 0.7 x Un
- 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

- 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

Mechan	ical					
Mechanica	al endurance	10 % of MCCB mechnical endurance				
Electrical		EZC100	EZC250/EZ	CV250		
		AC/DC	AC	DC		
SHT	pick-up consumption	< 30 VA	< 30 VA	< 35 W		
	response time	< 50 ms	< 50 ms	< 100 ms		
UVR	seal-in consumption	< 5 VA	< 5 VA	< 10 W		
	response time	< 50 ms	< 50 ms	< 100 ms		
UVRN	seal-in consumption	< 5 VA	< 5 VA	< 10 W		
	response time	< 50 ms	< 50 ms	< 100 ms		
Connec	tions	EZC100	EZC250/EZ	CV250		
SHT		pre-wired (1 mm ²)	pre-wired (0.5	mm²)		
UVR		pre-wired (1 mm²)	screws (< 2 mi	m²)		
UVRN		pre-wired (1 mm²)	pre-wired (0.5	mm²)		



Shunt Trip EZASHT.



Shunt Trip EZESHT.

- Installation
 EZC100 SHT and UVR: internal mounting
 EZC250/EZCV250:
 □ SHT: internal mounting
 □ UVR: external mounting
 □ UVRN: internal mounting





Under Voltage Release EZAUVR.



Under Voltage Release EZEUVRN.



Under Voltage Release EZEUVR.

Direct rotary handle 100-250AF

P810188/731

Direct rotary handle (black) for EZC100.



Direct rotary handle (red/yellow) for EZC100.



Direct rotary handle (black) for EZC250/EZCV250.



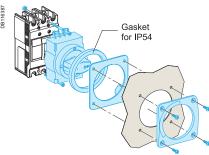
Direct rotary handle (red/yellow) for EZC250/EZCV250.

Direct rotary handle

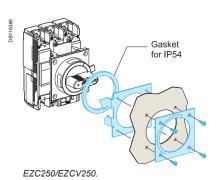
Suitable for Motor Control Centre (MCC) switchboards.

- Degree of protection IP40 or IP54, IK07 (IP54 with gasket supplied).
- The direct rotary handle maintains:
- □ suitability for isolation
- $\hfill \Box$ indication of the three positions O (OFF), I (ON) and tripped
- $\hfill \Box$ 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
- $\hfill \Box$ circuit breaker closing is disabled if the door is open.

IP40 or IP54



EZC100.



Padlocking







 Designation
 Cat. no.

 EZC100
 EZC250/EZCV250

 Direct rotary handle (black)
 EZAROTDS
 EZEROTDS

 Direct rotary handle (red/yellow)
 EZAROTDSRY
 EZEROTDSRY

Extended rotary handle 100-250AF



Extended rotary handle (black) for EZC100.



Extended rotary handle (red/yellow) for EZC100.



Extended rotary handle (black) for EZC250/EZCV250.



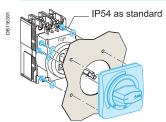
Extended rotary handle (red/yellow) for EZC250/EZCV250.

Extended rotary handle

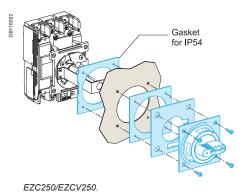
The extended rotary handle is used to control, from the front face of the switchboard, a device installed at the back of the switchboard.

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

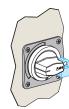
IP40 or IP54



EZC100.



Padlocking



EZC100.



EZC250/EZCV250.

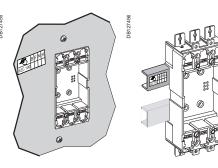
Designation	Cat. no.	
	EZC100	EZC250/EZCV250
Extended rotary handle (black)	EZAROTE	EZEROTE
Extended rotary handle (red/yellow)	EZAROTERY	EZEROTERY

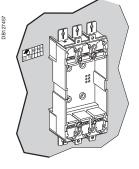
Plug-in

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.





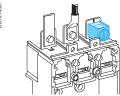
Front connection.

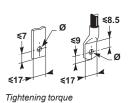
Fixation on rail DIN.

Fixation on rear plate.

Connection accessories

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







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





EZAPCON1L



EZAPCON1H



EZAFSHB3



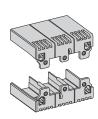
Fishbone

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

Insulation of live parts

Short terminal shield only.





Terminal shields

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

Terminal-shield types

Easypact EZC 100 to 250:

■ short terminal shields

Short terminal shields

They are used with:

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

Terminal shields and pitch

Combination possibilities are shown below.

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



Interphase barriers

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

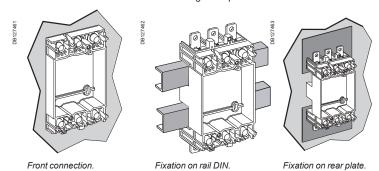
- they clip easily onto the circuit breaker
- single version for fixed devices and adapters on plug-in bases
- not compatible with terminal shields
- the adapter for the plug-in base is required for mounting on plug-in and withdrawable versions.

Plug-in 250 A

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

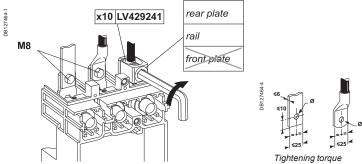
Plug-in

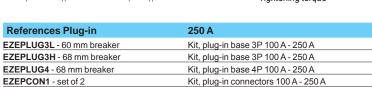
The plug-in base is equipped with terminals which, depending on their orientation, serve for front and rear connection. Degree of protection IP20.



Connection accessories

All accessories for fixed devices (bars, lugs).









Insulation of live parts

Short terminal shield only







Terminal shields

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

Terminal-shield types

Easypact EZC 100 to 250:

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Short terminal shields

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Combination possibilities are shown below.

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

Interphase barriers

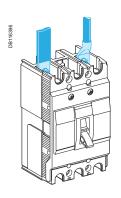
Safety accessories for maximum insulation at the power-connection points:

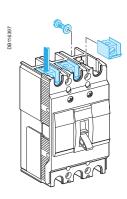
they clip easily onto the circuit breaker

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

Power connections and cable lugs 100-250AF







Standard circuit breaker terminals

All EasyPact EZC circuit breakers are supplied with terminal screws



EZC100 60 to 100 A



EZC250/EZCV250 63 to 250 A

Screw M8

Screw M8



Connection of insulated	l bars or cables wi	th lugs		
			EZC100	EZC250/ EZCV250
Bars	L (mm)		≤ 17	≤ 25
	h (mm)	h (mm)		d + 10
	d (mm)		≤7	≤8
	e (mm)		≤6	≤6
	Ø (mm)	≤ 50 A	5.5	-
h #		> 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	9
Tightening torque	≤ 50 A		2 N.m	-
	> 50 A		5.5 N.m	13 N.m

Cable lugs

Cable lugs directly screwed on standard circuit breaker terminals.

≤ 50 A (EZC100) > 50 A (EZC100) ≥ 100 A (EZC250/EZCV250)





Cables from 2.5 to 16 mm².

Cables from 10 to 50 mm².

Cables from 42.2 to 150 mm².

Designation	Cat. no.	
	EZC100	EZC250/EZCV250
Cable lug up to 50 A (set of 2)	EZALUG0502 (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

(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







Phase barriers for EZC100.





d for EZC100. Terminal shield for EZC250/EZCV250.

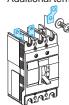
Spreaders

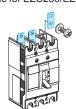
Increase the pitch of the circuit breaker terminals:

- 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.

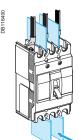


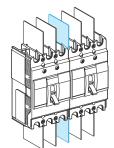


Designation	Cat. no.	
	EZC100	EZC250/EZCV250
Spreaders for 3-pole breaker (set of 3)	EZASPDR3P	EZESPDR3P
Spreaders for 4-pole breaker (set of 4)	EZASPDR4P	EZESPDR4P
Terminal extension for 3-pole breaker (set of 3)	-	EZETEX
Terminal extension for 4-pole breaker (set of 4)	-	EZETEX4P

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 outgoings or between 2 side by side mounted breakers.

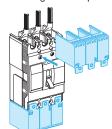




	- 4	
Designation	Cat. no.	
	EZC100	EZC250/EZCV250
Phase barriers for 60 mm depht (set of 2)	EZAFASB2	EZEFASB2
Phase barriers for 68 mm depht (set of 3)	-	EZEFASB3N

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 IR07
- The long terminal shield is used with front cable or isolated busbar connections.
- Designed for 3-pole EZC100, 3, 4-pole EZC250/EZCV250.



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







Padlocking device for

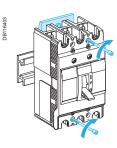


Padlocking device for EZC250/EZCV250.

DIN rail adaptor

Breaker mounting on a DIN rail is possible by using special adaptator (EZC100 only). Number of adaptators:

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



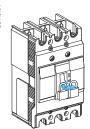
Mounting on DIN rail (optional).

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

Padlocking system

Locking in the OFF position guarantees isolation as per IEC 60947-2. Padlocking system can receive:

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



Toggle locking using a removable device: for EZC100



for EZC250/EZCV250

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

Accessories and auxiliaries of EZC400-630

Connection of devices

Fixed circuit breakers are designed for standard front connection using bars or cables with lugs.

Cable connectors are available for bare cables. Rear connection is also possible.



Insulated bar.



Small lug for copper cables.



Small lug for Al cables.







Right-angle terminal extensions



Spreaders.

Front connection

Bars or cables with lugs

Standard terminals

EasyPact EZC400 to 630 come with terminals comprising snap-in nuts with screws:

- EasyPact EZC400/630: M10 nuts and screws.
- These terminals may be used for:
- direct connection of insulated bars or cables with lugs
- terminal extensions.

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

Bars

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

EasyPact EZC circuit	breaker	400/630	
Without spreaders	pitch (mm)	45	
	maximum bar size (mm)	32 x 8	
With spreaders	pitch (mm)	52.5	
	maximum bar size (mm)	40 x 6	

Crimp lugs

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

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

- ''	•		
EasyPact EZC circuit breaker		400/630	
Copper cables	size (mm²)	240, 300	
	crimping	hexagonal barrels or punching	
Aluminium cables	size (mm²)	240, 300	
	crimping	hexagonal barrels	

Terminal extensions

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

- straight terminal extensions
- right-angle terminal extensions

Spreaders

Spreaders may be used to increase the pitch:

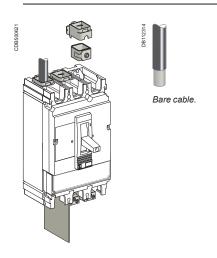
■ EZC400/630: the 45 mm pitch can be increased to 52 or 70 mm. Bars, cable lugs or cable connectors can be attached to the ends.

Pitch (mm) depending on the type of spreader

EasyPact EZC circuit breaker	EZC400 to 630	
Without spreaders	45	
With spreaders	52.5 or 70	

Accessories and auxiliaries of EZC400-630

Connection of devices



Bare cables

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

1-cable connectors for EasyPact EZC400 to 630

The connectors are screwed directly to the device terminals.

Maximum size of cables depending on the type of connector

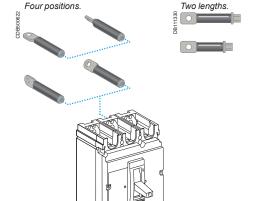
EasyPact EZC circuit bre	400	630	
Aluminium connectors	2 cables 35 to 240 mm ²		
	35 to 300 mm ²		





1-cable connector for EZC400/630.

2-cable connector for EZC400/630.



Rear connection

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

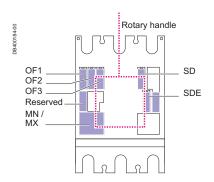
Bars or cables with lugs

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

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

Accessories and auxiliaries of EZC400-630

Selection of auxiliaries



EasyPact EZC400/630

Standard

All EasyPact EZC400/630 circuit breakers and switch-disconnectors have slots for the electrical auxiliaries listed below.

5 indication contacts

- 3 ON/OFF (OF3)
- 1 trip indication (SD)
- 1 fault-trip indication (SDE)
- 1 remote-tripping release
 either 1 MN undervoltage release
- or 1 MX shunt release.

All these auxiliaries can be installed with a rotary handle.

Indication contacts

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

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

They can be used for indications, electrical locking, relaying, etc.

They comply with the IEC 60947-5 international recommendation.

Functions

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

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

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

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

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

Installation

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

Electrical characteristics of auxiliary contacts

Contacts			Stand	lard			Low level				
Types of co	ntacts		All				OF, SD, SDE				
Rated therm	Rated thermal current (A) 6					5					
Minimum loa	ad		100 m	A at 24 '	/ DC		1 mA at 4 V DC				
Utilisation ca	at. (IEC 6094	7-5-1)	AC12	AC15	DC12	DC14	4 AC12 AC15 DC12 DC			DC14	
Operationa	al24 V	AC/DC	6	6	6	1	5	3	5	1	
current (A)	48 V	AC/DC	6	6	2.5	0.2	5	3	2.5	0.2	
	110 V	AC/DC	6	5	0.6	0.05	5	2.5	0.6	0.05	
	220/240 V	AC	6	4	-	-	5	2	-	-	
	250 V	DC	-	-	0.3	0.03	5	-	0.3	0.03	
	380/440 V	AC	6	2	-	-	5	1.5	-	-	



Indication contacts.

Remote tripping



MX or MN voltage release

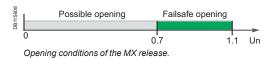


Opening conditions of the MN release.



Closing conditions of the MN release.





MN undervoltage release

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

Characteristics

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

Time-delay unit for an MN release

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

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

MX shunt release

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

Opening conditions

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

Characteristics

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

Circuit breaker control by MN or MX

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

MN or MX tripping takes priority over manual closing.

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

Connection using wires up to 1.5mm² to integrated terminal blocks.

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

Rotary handles escutcheons and protection collars

There are two types of rotary handle:

- direct rotary handle
- extended rotary handle.



EasyPact EZC400 with a rotary handle.



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



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

Direct rotary handle

Standard handle

Degree of protection IP40, IK07.

The direct rotary handle maintains:

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

Device locking

The rotary handle facilitates circuit-breaker locking.

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

Extended rotary handle

Degree of protection IP54, IK08.

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

It maintains:

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

Device and door padlocking

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

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

Parts of the extended rotary handles

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

 $\hfill 209...600$ mm for EasyPact EZC 400/630.

Manual source-changeover systems

An additional accessory interlocks two devices with rotary handles to create a sourcechangeover system. Closing of one device is possible only if the second is open. This function is compatible with direct or extended rotary handles. Up to three padlocks can be used to lock in the OFF or ON position.

IP40 escutcheons for fixed devices

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

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

Locks and sealing accessories

Devoorse

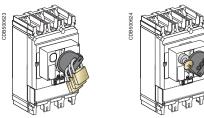


Toggle locking using padlocks and an accessory:

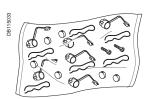
Removable device Fixed device attached to the case.

Deviousz

Rotary-handle locking using a keylock.



Rotary-handle locking using a padlock or a keylock.



Sealing accessories.

Locks

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

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

- (1) Following a simple modification of the mechanism.
- (2) Unless door locking has been voluntarily disabled.

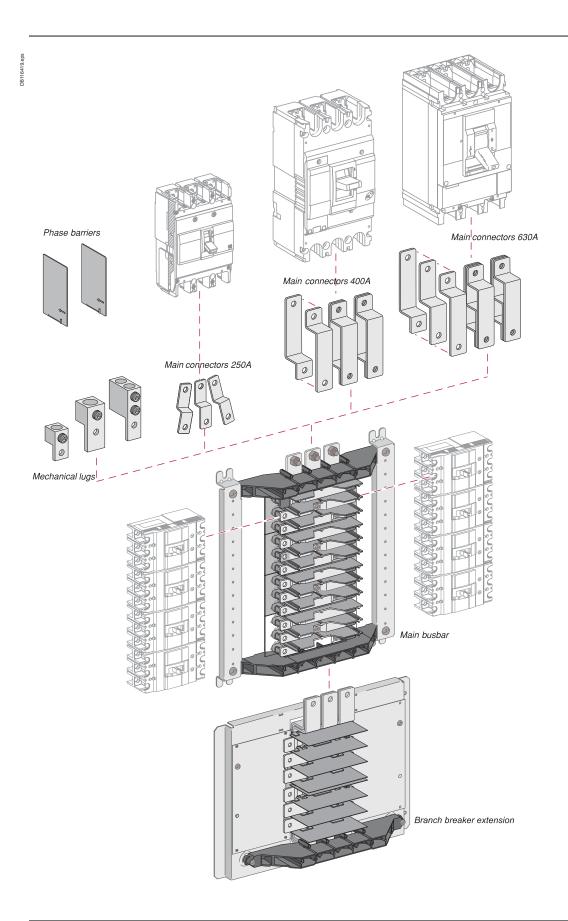
Sealing accessories

Toggle control	20008CD
Rotary handle	SCHOOLS STATE OF THE PARTY OF T

Busbars

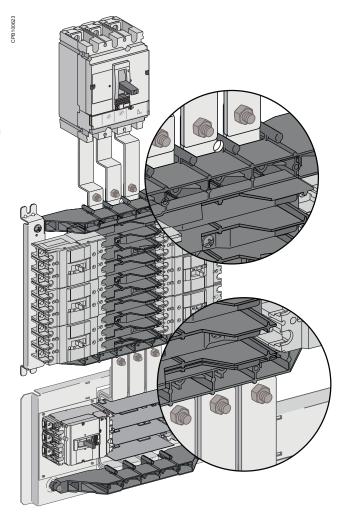
Presentation Functions and characteristics	A-
Introduction	B-2
Busbars characteristics	B-4
Main busbars and extension	B-
Accessories	B-6
Dimensions Busbar EZB250 Busbars EZB400/630 EasyPact EZC or Compact NSX branch extensions layout	B-: B-:
Installation guide Catalogue numbers	C- D-

Introduction



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:

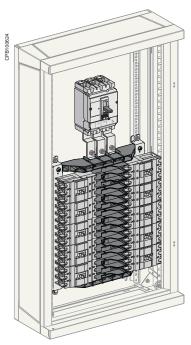
- available for 250 A, 400 A or 630 A main incoming current
- available for 4, 6, 8, 10 or 12 Ways (3 poles) EasyPact EZC 100 A (max.) outgoing MCCB's
- 400 A and 630 A systems can accept an additional 2 or 4 EasyPact EZC 250 or Compact NSX250 outgoing
- designed and tested to meet IEC 60439-1 requirements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



Premium Materials make a premium busbar system

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

Busbars characteristics



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

Compliance with standardsThe 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 S	System		EZI	B250				EZE	3400				EZE	3630			
Number of ways			4	6	8	10	12	4	6	8	10	12	4	6	8	10	12
Numbers of outgoings (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 breaker	rs		No e	extensi	ion			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			Ref	er to ca	ascadir	ng table	es 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 41	6 x 82.	5		290	x 416	x 107			290	x 416	x 107		
	6 Ways		343	.5 x 41	6 x 82.	5		365	x 416	x 107			365	x 416	x 107		
	8 Ways		418	.5 x 41	6 x 82.	5		440	x 416	x 107			440	x 416	x 107		
	10 Ways		493	.5 x 41	6 x 82.	5		515	x 416	x 107			515	x 416	x 107		
	12 Ways		568	.5 x 41	6 x 82.	5		590	x 416	x 107			590	x 416	x 107		

Main busbars and extension

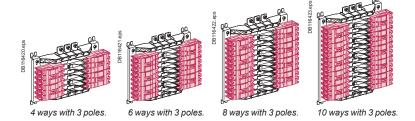


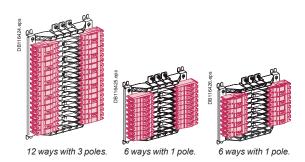
EasyPact EZC Busbar EZB250W08.

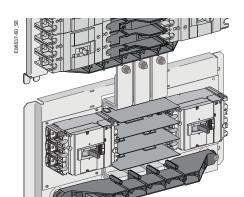
Main busbar

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

Designation	Cat. no.		
Туре	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







 ${\it EasyPact\,EZC\,and\,Compact\,NSX\,branch\,breaker\,extension\,2}$ ${\it ways.}$

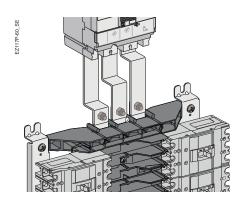
EasyPact EZC and Compact NSX branch extension

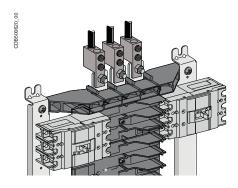
For applications calling for larger than 100 A outgoing MCCB's, EasyPact EZC Busbar rated 400 A and 630 A can accept the 2 ways or 4 ways EasyPact EZC and Compact NSX branch extension for up to four additional 250 A max. outgoing circuits. EasyPact EZC and Compact NSX branch extensions simply connect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

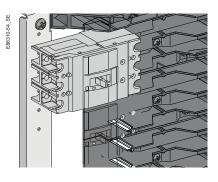
Designation	Cat. no.	
EZ/NSX/NB branch brea	ker extension	
2 ways	EZBNS2	
4 ways	EZBNS4	

Accessories



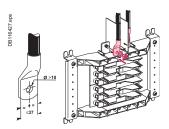






Main incoming connections

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



Main connectors

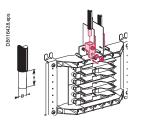
For installing a main disconnect device (EasyPact EZC or Compact NSX MCCB or INS switch) ahead of EasyPact EZC Busbar, use the tin-plated copper connector kits below.

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

Mechanical lugs

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

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



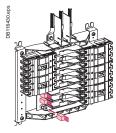
		D2301	ILOO L	ED-TOOIVIEO.		
DB116429.eps	A	0	B	C		
	250	Α	400 A	630 A		
		а	ø	C		
	Α	26	16-150 mm ²	31 Nm		
	В	35	35-300 mm ²	56 Nm		
	С	30	25-240 mm ²	56 Nm		
		60	25-240 mm ²	56 Nm		

Connector caps

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

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

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

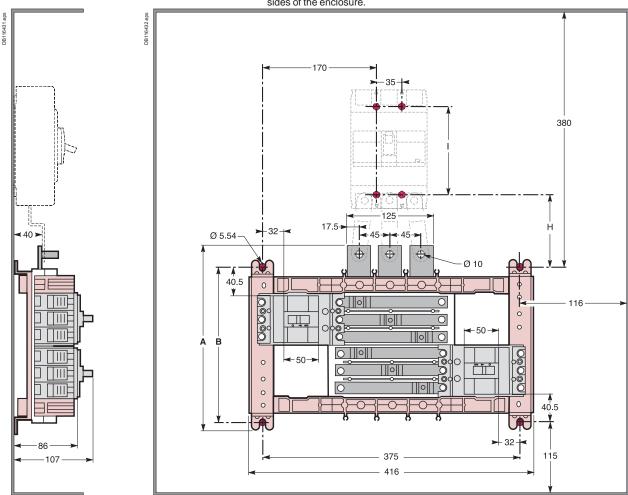




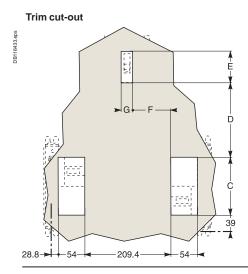
Busbar EZB250

Layout installation EZB250

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

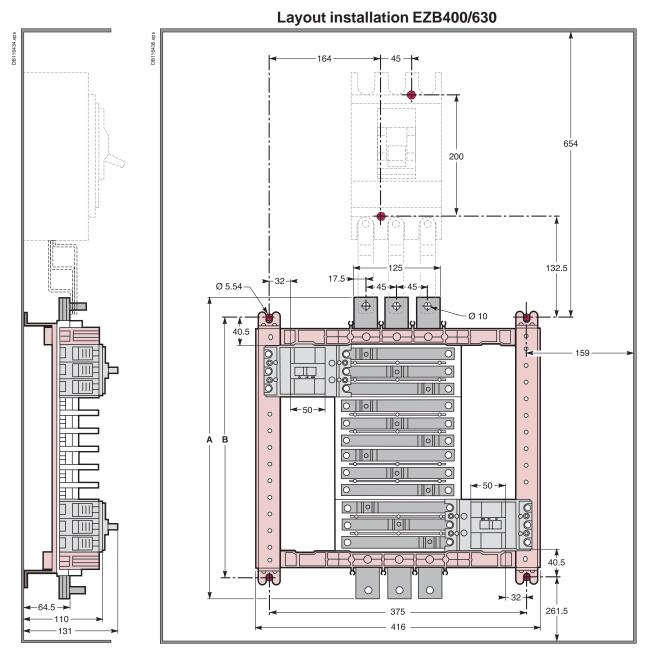


EZB250 - 250 A main busbar rating.

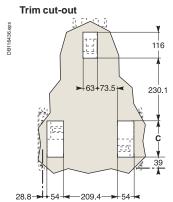


	Α	В	С	D	Е	F	G	Н	I .
EZ250 incomer	-	-	-	187.4	52	92.7	24	109.5	126
NS incomer	-	-	-	182.4	76	90.2	29	108	125
4 ways	268.5	225	147	-	-	-	-	-	-
6 ways	343.5	300	222	-	-	-	-	-	-
8 ways	418.5	375	297	-	-	-	-	-	-
10 ways	493.5	450	372	-	-	-	-	-	-
12 ways	568.5	525	447	-	-	-	-	-	-

Busbars EZB400/630



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

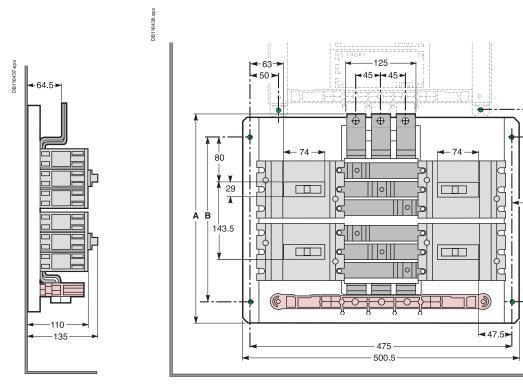


	Α	В	С
4 ways	290	225	147
6 ways	365	300	222
8 ways	440	375	297
10 ways	515	450	372
12 ways	590	525	447

Note: to avoid excess temperature rise on incoming MCCB terminals, panels using 630 A main breaker with these minimum enclosure dimensions require a 7000 mm² ventilation opening (after subtracting effects of screening) at each of the 4 corners of the enclosure.

EasyPact EZC or Compact NSX branch extensions layout

Layout installation for EasyPact EZC or Compact NSX branch extensions



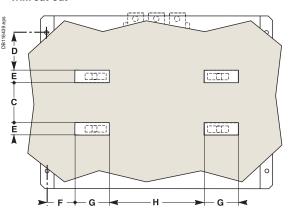
EZBNS2 and EZBNS4 Compact NSX branch breaker extension.

	Α	В	С	D	E	F	G	Н
EZBNS2	270	175	NA	-	-	-	-	-
EZBNS4	384	275	85.5	-	-	-	-	-
EZC250	-	-	90.5	57.5	24	61	52	249
NSX250	-	-	85.5	78.5	29	45.5	76	232

138

150

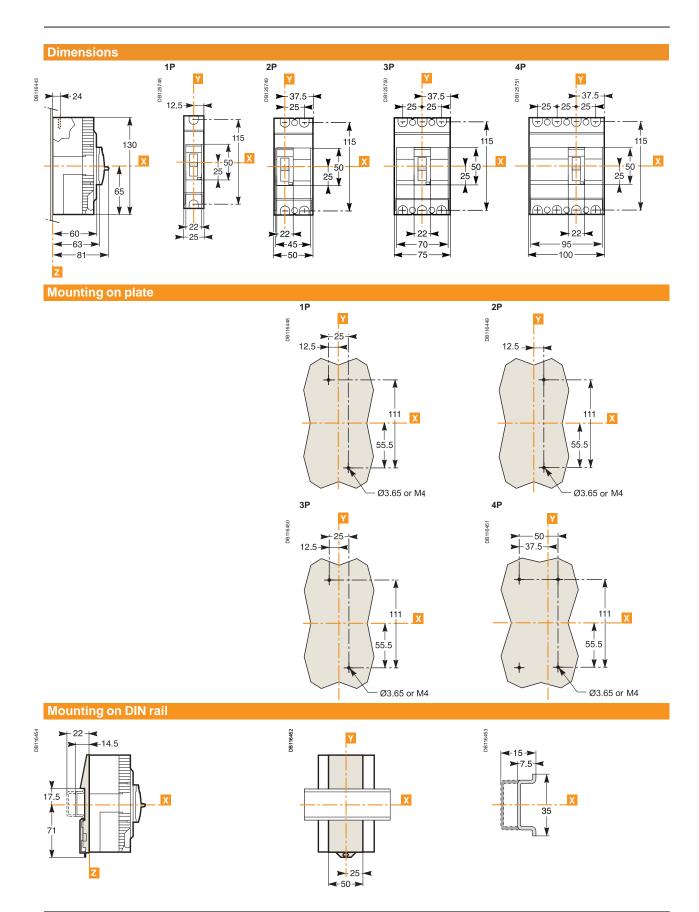
Trim cut-out



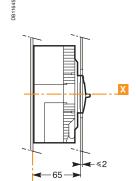
Installation guide

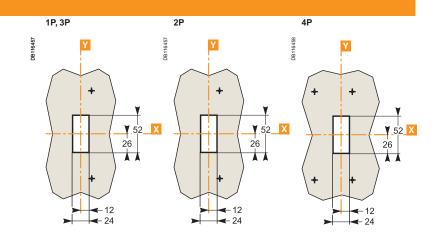
Catalogue numbers	D-1
Capacitor protection	C-26
Motor protection	C-24
Cascading tables	C-22
Cascading	C-21
Current-limiting curves	C-20
Tripping curves	C-18
Temperature derating	C-17
Safety clearances and minimum distances	C-15
EasyPact EZC 400/630 accessories	C-14
EasyPact EZC 250 accessories	C-12
EasyPact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

EasyPact EZC 100

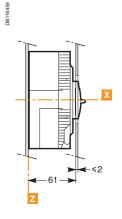


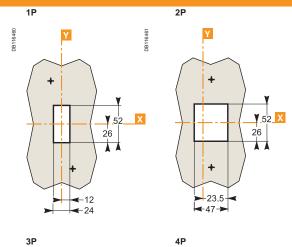
Door cut-out (small)

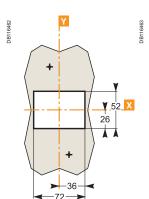


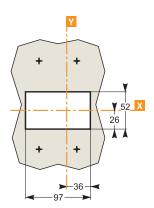


Door cut-out (large)





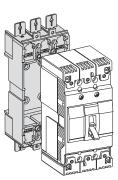


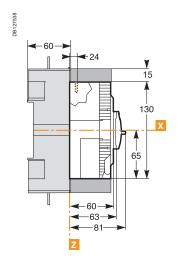


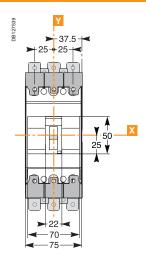
EasyPact EZC 100 A with plug-in

Dimensions

DB1275

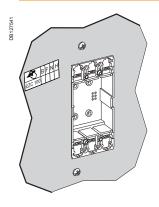


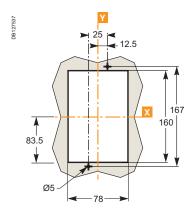




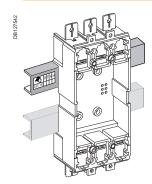
Mounting

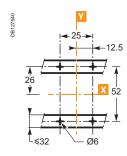
Through front panel



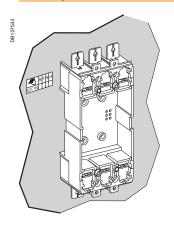


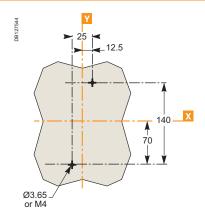
On rail



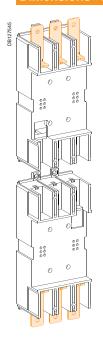


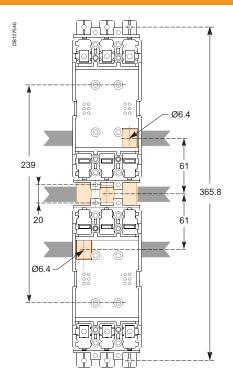
On backplate



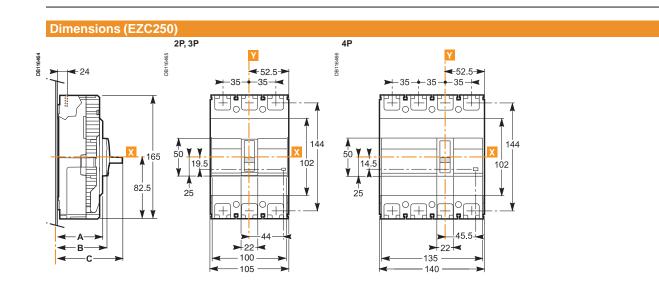


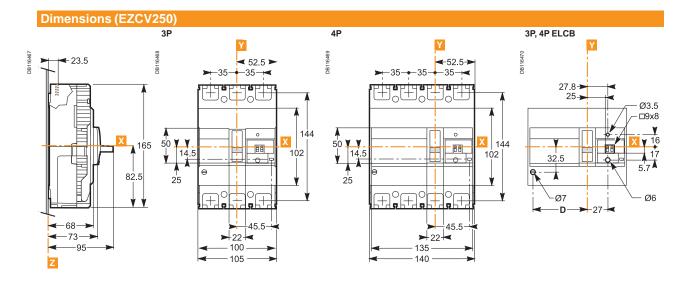
Dimensions - combination

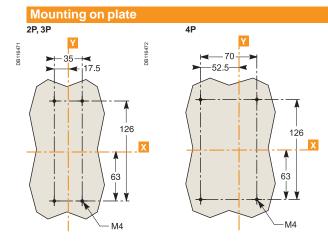




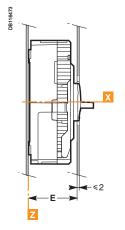
EasyPact EZC 250 EZC 250/EZCV 250



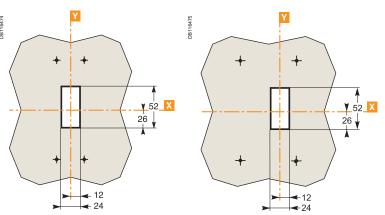




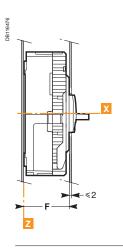
Door cut-out (small)



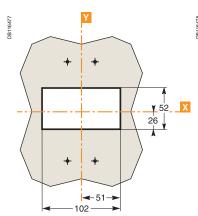




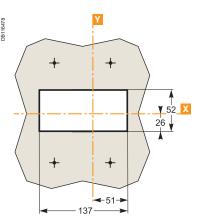
Door cut-out (large)



2P, 3P



4P

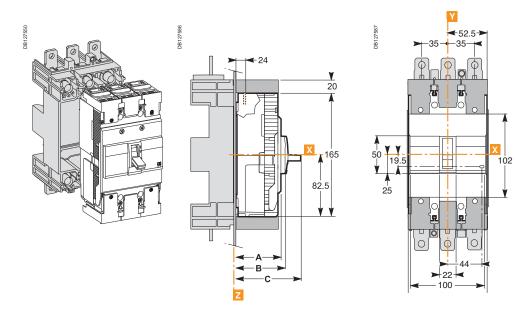


Dimensions (mm)

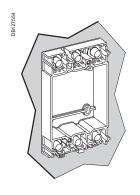
	Α	В	С	D	E	F
EZC 2/3P	60	65	85.5	-	67	61
EZC 4P	68	73	95	-	75	69
EZCV 3P				45.5		
EZCV 4P				80.5		

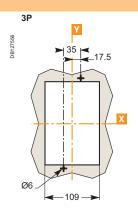
EasyPact EZC 250 A with plug-in

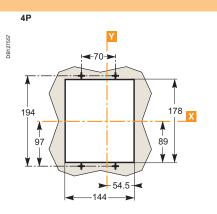
Dimensions



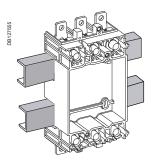


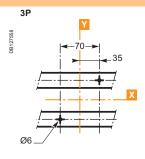


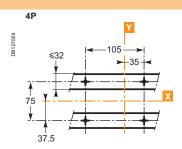




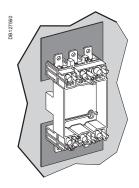
On rail

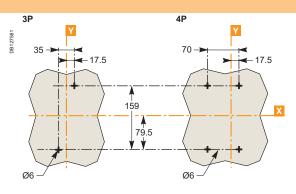




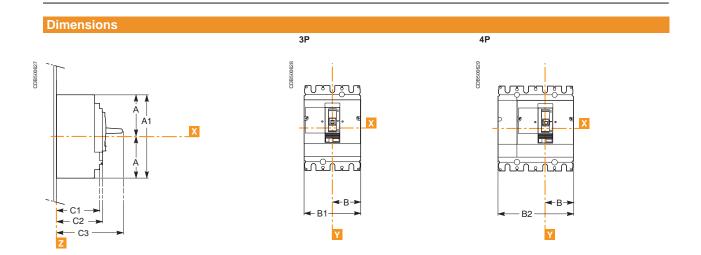


On backplate

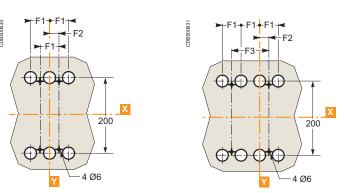




EasyPact EZC 400/630



Mounting on plate
On backplate 3P 4P

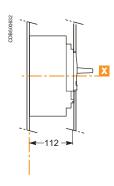


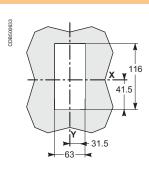
(1) The ØT holes are required for rear connection only.

Α	A1	В	B1	B2	F1	F2	F3	
127.5	255	70	140	185	45	22.5	90	

Bare sheet metal

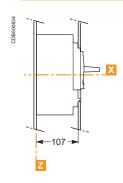
For toggle

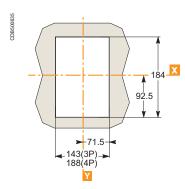




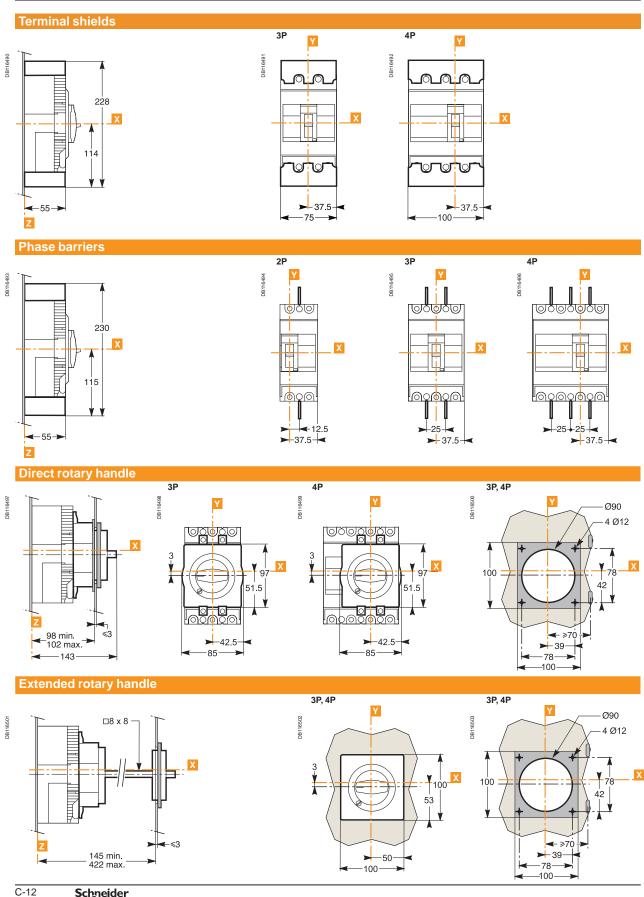
For toggle with access to trip unit

Z

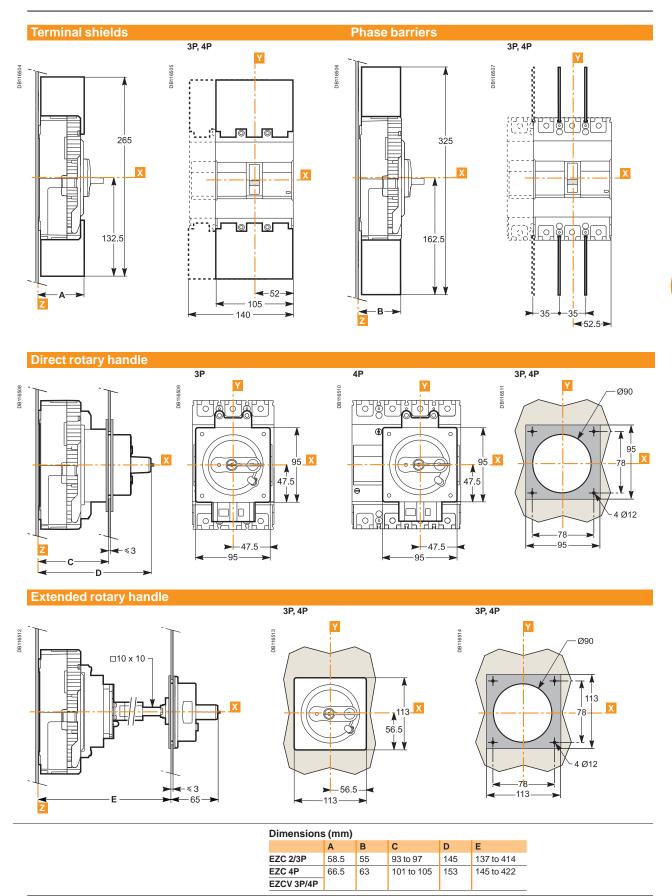




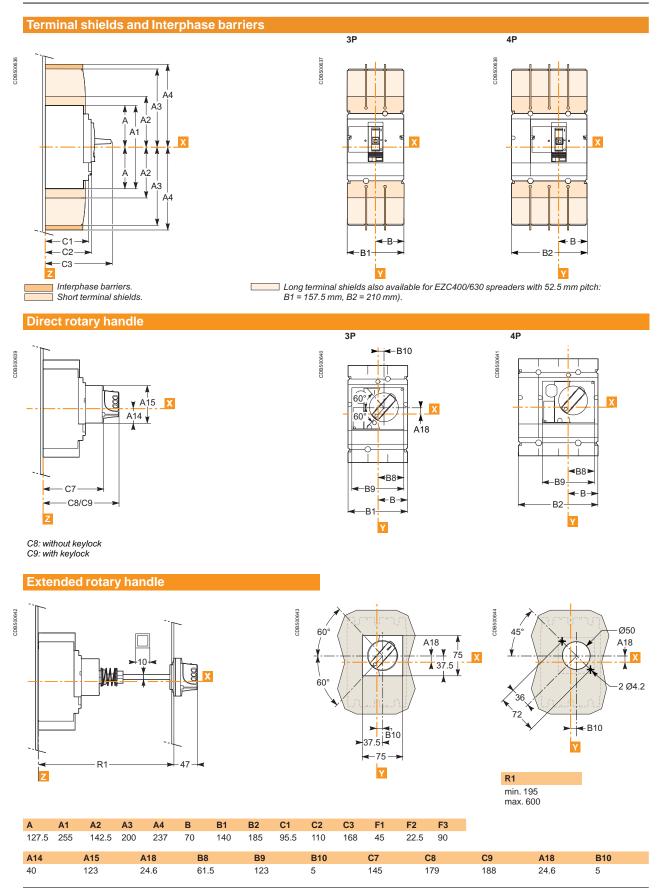
EasyPact EZC 100 accessories



EasyPact EZC 250 accessories



EasyPact EZC 400/630 accessories



Safety clearances and minimum distances

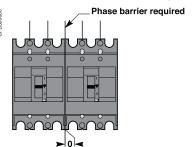
When installing a circuit breaker, minimum distances (safety clearances) must be maintained between the device and panels, bars and other protection devices installed nearby. These distances, which depend on the ultimate breaking capacity, are defined by tests carried out in accordance with standard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

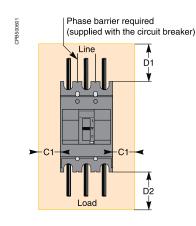
For EasyPact EZC breaker, terminal shields, inter-phase barriers or an insulation isolator are recommended and may be mandatory depending on the utilisation voltage and the type of installation.

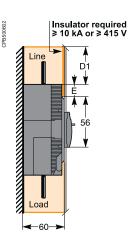
Minimal distance between two adjacent circuit breakers



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

Minimal distance between the circuit breaker and front or rear panels

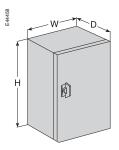




Dimensions (mm)	Bare or painted sheet metal:					
		insulate	d bars	bare bus	bare busbar under voltage	
EasyPact EZC circuit breaker	C1	D1	D2	D1	D2	E
EZC100B/F/N	40	45	45	75	45	40
EZC100H	40	60	45	75	45	40
EZC250F/N-EZCV250N	50	60	45	140	45	42.5
EZC250H-EZCV250H	50	80	45	140	45	42.5
EZC400N	50	120	100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

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

Safety clearances and minimum distances



Installation in an enclosure.

Installation in an enclosure

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

Minimum enclosure dimensions (3P)

Circuit breakers	Height (mm)	Depth (mm) (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

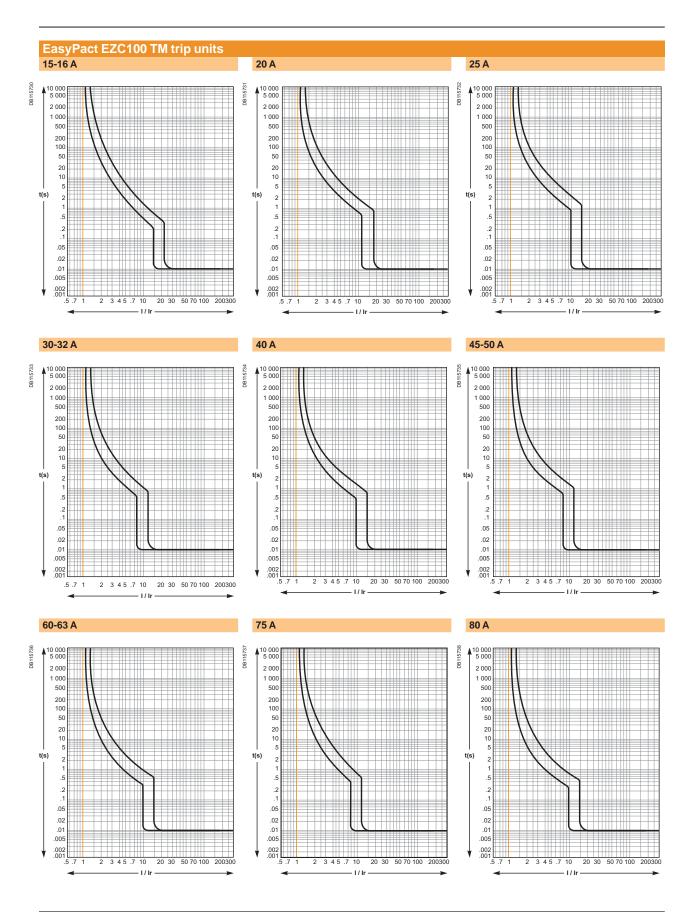
EasyPact EZC devices are equipped with fixed thermal-magnetic trip units.

- 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.
- \blacksquare 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.

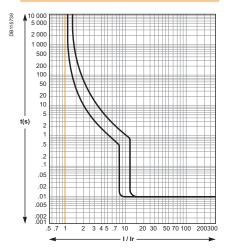
Rated current	25 °C	40 °C	45 °C	50 °C	55 °C	60 °C	65 °C	70 °C
(A)								
EZC100		I	l					
15	17.0	15.7	15.3	15.0	14.7	14.6	14.2	13.8
16	18.1	16.7	16.3	16.0	15.7	15.6	15.1	14.7
20	21.8	20.4	20.2	20.0	19.7	19.2	18.9	18.5
25	26.9	25.7	25.3	25.0	24.7	24.5	24.3	24.0
30	34.5	31.4	30.7	30.0	29.4	29.1	28.5	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

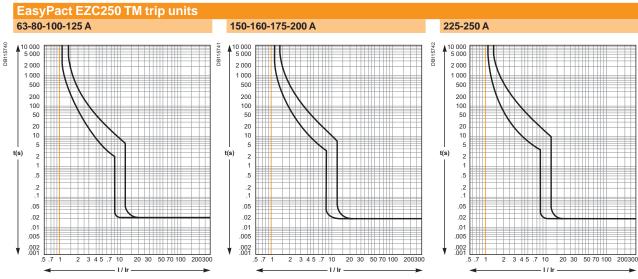
Tripping curves

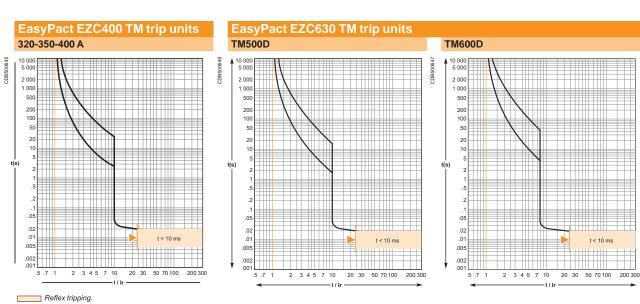


EasyPact EZC100 TM trip units (cont.)



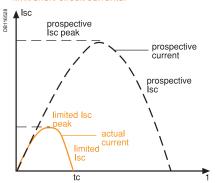






Current-limiting curves

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
- $\hfill \square$ 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.

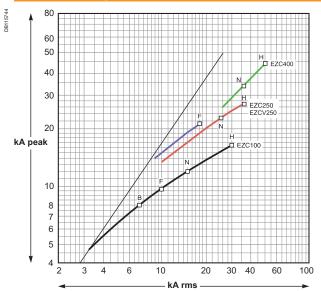
It follows that substantial savings can be made on downstream equipment and enclosures.

Current-limiting curves

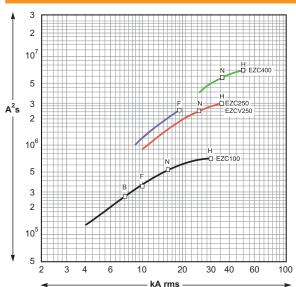
The current-limiting capacity of a circuit breaker is expressed by two curves which are a function of the prospective short-circuit current (the current which would flow if no protection devices were installed):

- the actual peak current (limited current),
- thermal stress (A²s), i.e. the energy dissipated by the short-circuit in a conductor with a resistance of 1 Ω .





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 lsc 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

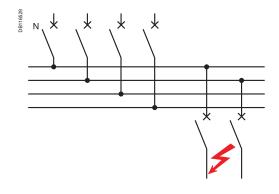
Thanks to cascading, circuit breakers with breaking capacities less than the prospective short-circuit current may be installed downstream from a current limiting circuit breaker.

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

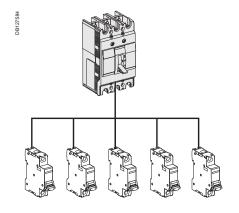
Cascading tables

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.



Cascading tables



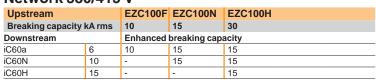
Network 220/240 V

Upstream	- 1		EZC100N	EZC100H
Breaking cap	pacity kArms	25	25	100
Downstream		Enhanced	breaking cap	acity
iC60a	10	25	25	50
iC60N	20	25	25	65
iC60H	30	-	-	65

Upstream	Upstream		EZC250N	EZC250H	
			EZCV250N	EZCV250H	
Breaking capacity	kA rms	25	50	85	100
Downstream Enhanced breaking capaci			acity		
EZC100B	10	-	-	15	20
EZC100F	25	-	30	30	50
EZC100N	25	-	30	36	50
EZC100H	100	-	-	-	-

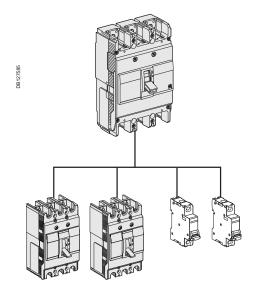
Upstream		EZC400N	EZC400H	NB400 NB630		NSX400H NSX630H
Breaking capacity kA rms		40	70	85	85	100
Downstream		Enhanced	breaking capa	acity		
EZC100B	10	20	20	20	20	20
EZC100F	25	40	40	50	50	50
EZC100N	25	40	40	50	50	50
EZC100H	100	-	-	-	-	-
EZC250F	25	40	40	50	50	50
EZC/EZCV250N	50	-	70	85	85	85
EZC/EZCV250H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





Upstream		EZC250F		EZC250H EZCV250H	NSX250H	
Breaking capacity	18	25	36	70		
Downstream	Enhanced	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		NSX400H NSX630H
Breaking capacity kA rms		36	50	30	50	70
Downstream		Enhanced	breaking cap	acity		
EZC100B	7.5	-	-	-	-	-
EZC100F	10	-	-	-	-	-
EZC100N	15	20	20	20	20	30
EZC100H	30	36	36	-	45	50
EZC250F	18	20	20	20	20	20
EZC/EZCV250N	25	36	36	30	36	40
EZC/EZCV250H	36	-	-	-	45	50

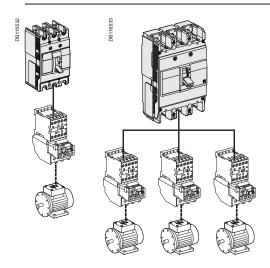


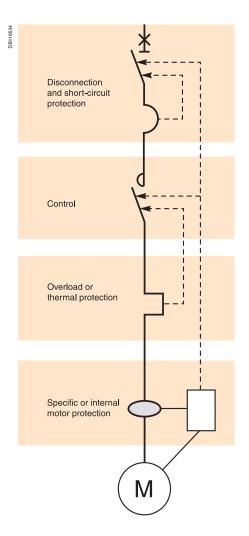
Network 440 V

Upstream	Upstream		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		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	

Motor protection





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 ln).

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 In).

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 In)

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 In)

Deterioration of motor-winding insulation is the primary cause.

Short-circuit (I > 50 In)

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

Protection against insulation faults

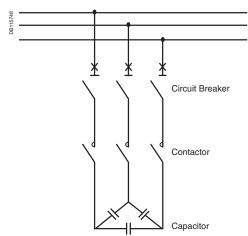
This type of protection may be provided by:

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

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

Capacitor protection





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

■ Inc = Nominal current of the capacitor

 $\begin{array}{ll} \text{Inc} \ = \frac{Qc}{U\sqrt{3}} & \text{Inc} = \text{Nominal Current Capacitor (A)} \\ & Qc = \text{Reactive power (kVAR)} \\ & U = \text{Nominal Voltage (V)} \end{array}$

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

- \Box Inb = 1.36 x Inc for standard equipment
- \Box Inb = 1.5 x Inc for overrated type equipment
- ☐ Inb = 1.12 x Inc for detuned type equipment: 2.7 tuning
- \Box Inb = 1.19 x Inc for detuned type equipment: 3.8 tuning
- \Box 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	Inc	Inb	Breaking capacity to	o Circuit Breaker
(kVAR)	(A)	(A)	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

Catalogue numbers

Presentation Functions and characteristics	I. A-1
Busbars	B-1
Installation guide	C-1
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

EZC100N/H1P/2P Circuit breaker

With thermal magnetic trip unit		, and the second	
	Rating	1P 1t	
	15 A	EZC100N1015	
	16 A	EZC100N1016	
	20 A	EZC100N1020	
	25 A	EZC100N1025	
	30 A	EZC100N1030	
	32 A	EZC100N1032	
	40 A	EZC100N1040	
	45 A	EZC100N1045	
	50 A	EZC100N1050	
	60 A	EZC100N1060 EZC100N1063	
	63 A		
	75 A	EZC100N1075	
	80 A	EZC100N1080	
EasyPact EZC100H 1P 25 k	100 A	EZC100N1100	
Vith thermal magnetic trip unit	Rating	1P 1t	2P 2t
	15 A	EZC100H1015	EZC100H2015
	16 A	EZC100H1016	EZC100H2016
	20 A	EZC100H1020	EZC100H2020
	25 A	EZC100H1025	EZC100H2025
	30 A	EZC100H1030	EZC100H2030
	32 A	EZC100H1032	EZC100H2032
P	40 A	EZC100H1040	EZC100H2040
1	45 A	EZC100H1045	EZC100H2045
	50 A	EZC100H1050	EZC100H2050
	60 A	EZC100H1060	EZC100H2060
	63 A	EZC100H1063	EZC100H2063
	75 A	EZC100H1075	EZC100H2075
	80 A	EZC100H1080	EZC100H2080
	100 A	EZC100H1100	EZC100H2100

EZC100B/F/N/H3PCircuit breaker

EasyPact EZC100B 3P 7.5 kA 400/415 V		
With thermal magnetic trip unit		
with thermal magnetic trip unit	Datie	an or
	Rating	3P 3t
DBI1642 49s	15 A	EZC100B3015
DBI OBI	16 A	EZC100B3016
	20 A	EZC100B3020
	25 A	EZC100B3025
	30 A	EZC100B3030
200	32 A	EZC100B3032
The state of the s	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	5	lan o
	Rating	3P 3t
DBH GALL, days	15 A	EZC100F3015
D D D D D D D D D D D D D D D D D D D	16 A	EZC100F3016
	20 A	EZC100F3020
	25 A	EZC100F3025
	30 A	EZC100F3030
	32 A	EZC100F3032
The same	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	1007	22010013100
With thermal magnetic trip unit		
£	Rating	3P 3t
2 epa	15 A	EZC100N3015
T A A A A A A A A A A A A A A A A A A A	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	
	60 A 63 A	EZC100N3060
	63 A	EZC100N3060 EZC100N3063
	63 A 75 A	EZC100N3060 EZC100N3063 EZC100N3075
	63 A 75 A 80 A	EZC100N3060 EZC100N3063 EZC100N3075 EZC100N3080
EncyPool 57C400H 2D 20 kA 400/445 V	63 A 75 A 80 A 100 A	EZC100N3060 EZC100N3063 EZC100N3075
EasyPact EZC100H 3P 30 kA 400/415 V	63 A 75 A 80 A 100 A	EZC100N3060 EZC100N3063 EZC100N3075 EZC100N3080
EasyPact EZC100H 3P 30 kA 400/415 V With thermal magnetic trip unit	63 A 75 A 80 A 100 A	EZC100N3060 EZC100N3063 EZC100N3075 EZC100N3080 EZC100N3100
With thermal magnetic trip unit	63 A 75 A 80 A 100 A	EZC100N3060 EZC100N3063 EZC100N3075 EZC100N3080
With thermal magnetic trip unit	63 A 75 A 80 A 100 A	EZC100N3060 EZC100N3063 EZC100N3075 EZC100N3080 EZC100N3100
With thermal magnetic trip unit	63 A 75 A 80 A 100 A	EZC100N3060 EZC100N3063 EZC100N3075 EZC100N3080 EZC100N3100
With thermal magnetic trip unit	63 A 75 A 80 A 100 A Rating 15 A	EZC100N3060 EZC100N3063 EZC100N3075 EZC100N3080 EZC100N3100 3P 3t EZC100H3015
With thermal magnetic trip unit	63 A 75 A 80 A 100 A Rating 15 A 16 A	EZC100N3060 EZC100N3063 EZC100N3075 EZC100N3080 EZC100N3100 3P 3t EZC100H3015 EZC100H3016
With thermal magnetic trip unit	63 A 75 A 80 A 100 A Rating 15 A 16 A 20 A	EZC100N3060 EZC100N3063 EZC100N3075 EZC100N3080 EZC100N3100 3P 3t EZC100H3015 EZC100H3016 EZC100H3020
With thermal magnetic trip unit	63 A 75 A 80 A 100 A Rating 15 A 16 A 20 A 25 A	EZC100N3060 EZC100N3063 EZC100N3075 EZC100N3080 EZC100N3100 3P 3t EZC100H3015 EZC100H3016 EZC100H3020 EZC100H3025 EZC100H3030
With thermal magnetic trip unit	63 A 75 A 80 A 100 A Rating 15 A 16 A 20 A 25 A 30 A 32 A	EZC100N3060 EZC100N3063 EZC100N3075 EZC100N3080 EZC100N3100 3P 3t EZC100H3015 EZC100H3016 EZC100H3020 EZC100H3025 EZC100H3030 EZC100H3032
With thermal magnetic trip unit	63 A 75 A 80 A 100 A Rating 15 A 16 A 20 A 25 A 30 A 32 A 40 A	EZC100N3060 EZC100N3063 EZC100N3075 EZC100N3080 EZC100N3100 3P 3t EZC100H3015 EZC100H3016 EZC100H3020 EZC100H3025 EZC100H3030 EZC100H3032 EZC100H3032
With thermal magnetic trip unit	63 A 75 A 80 A 100 A Rating 15 A 16 A 20 A 25 A 30 A 32 A 40 A 45 A	EZC100N3060 EZC100N3063 EZC100N3075 EZC100N3080 EZC100N3100 3P 3t EZC100H3015 EZC100H3016 EZC100H3020 EZC100H3020 EZC100H3025 EZC100H3030 EZC100H3030 EZC100H3032 EZC100H3040 EZC100H3045
With thermal magnetic trip unit	63 A 75 A 80 A 100 A Rating 15 A 16 A 20 A 25 A 30 A 32 A 40 A 45 A 50 A	EZC100N3060 EZC100N3063 EZC100N3075 EZC100N3080 EZC100N3100 3P 3t EZC100H3015 EZC100H3016 EZC100H3020 EZC100H3020 EZC100H3030 EZC100H3030 EZC100H3030 EZC100H3030 EZC100H3030 EZC100H3030 EZC100H3030 EZC100H3050
With thermal magnetic trip unit	63 A 75 A 80 A 100 A Rating 15 A 16 A 20 A 25 A 30 A 32 A 40 A 45 A 50 A 60 A	EZC100N3060 EZC100N3063 EZC100N3075 EZC100N3080 EZC100N3100 3P 3t EZC100H3015 EZC100H3016 EZC100H3020 EZC100H3025 EZC10H3030 EZC100H3030 EZC100H3050 EZC100H3040 EZC100H3045 EZC100H3050 EZC100H3050
With thermal magnetic trip unit	63 A 75 A 80 A 100 A Rating 15 A 16 A 20 A 25 A 30 A 32 A 40 A 45 A 50 A 60 A 63 A	EZC100N3060 EZC100N3063 EZC100N3075 EZC100N3080 EZC100N3100 3P 3t EZC100H3015 EZC100H3016 EZC100H3020 EZC100H3025 EZC100H3030 EZC100H3030 EZC100H3050 EZC100H3050 EZC100H3040 EZC100H3050 EZC100H3050 EZC100H3060 EZC100H3063
	63 A 75 A 80 A 100 A Rating 15 A 16 A 20 A 25 A 30 A 32 A 40 A 45 A 50 A 60 A 63 A 75 A	EZC100N3060 EZC100N3063 EZC100N3075 EZC100N3080 EZC100N3100 3P 3t EZC100H3015 EZC100H3016 EZC100H3025 EZC100H3025 EZC100H3030 EZC100H3030 EZC100H3050 EZC100H3060 EZC100H3060 EZC100H3063 EZC100H3063
With thermal magnetic trip unit	63 A 75 A 80 A 100 A Rating 15 A 16 A 20 A 25 A 30 A 32 A 40 A 45 A 50 A 60 A 63 A	EZC100N3060 EZC100N3063 EZC100N3075 EZC100N3080 EZC100N3100 3P 3t EZC100H3015 EZC100H3016 EZC100H3020 EZC100H3025 EZC100H3030 EZC100H3030 EZC100H3050 EZC100H3050 EZC100H3040 EZC100H3050 EZC100H3050 EZC100H3060 EZC100H3063

EZC100N/H4P Circuit breaker

EasyPact EZC100N 4P 15 kA 400/415 V		
With thermal magnetic trip unit		
	Rating	4P 3t
	15 A	EZC100N4015
DBH 4620 493	16 A	EZC100N4016
	20 A	EZC100N4020
	25 A	EZC100N4025
	30 A	EZC100N4030
and the second s	32 A	EZC100N4032
renen	40 A	EZC100N4040
	45 A	EZC100N4045
	50 A	EZC100N4050
	60 A	EZC100N4060
	63 A	EZC100N4063
	75 A	EZC100N4075
	80 A	EZC100N4080
	100 A	EZC100N4100
EasyPact EZC100H 4P 30 kA 400/415 V		
With thermal magnetic trip unit		
	Rating	4P 3t
DELITACIO DEL	15 A	EZC100H4015
1114	16 A	EZC100H4016
	20 A	EZC100H4020
	25 A	EZC100H4025
	30 A	EZC100H4030
	32 A	EZC100H4032
renen	40 A	EZC100H4040
	45 A	EZC100H4045
	50 A	EZC100H4050
	60 A	EZC100H4060
	63 A	EZC100H4063
	75 A	EZC100H4075
	75 A 80 A	EZC100H4075 EZC100H4080

EZC100N/H/B/F Accessories

	Connection accesso	ries				
	Cable lugs					
sda	No.	≤ 50 A	Cables from 2.5 to 16 mm ²	Set of 2	EZALUG0502	
				Set of 3	EZALUG0503	
DB10082					·	
eps.		> 50 A	Cables from 10 to 50 mm ²	Set of 2	EZALUG1002	
DB100822	\ (0)			Set of 3	EZALUG1003	
DB1						
	Spreaders					
s	Opreducis	Spreaders for 3P br	reaker	Set of 3	EZASPDR3P	
DB111674.eps		Spreaders for 4P br		Set of 4	EZASPDR4P	
B1116	5500					
	Terminal shields					
sd		Terminal shields for	3P breaker	Set of 2	EZATSHD3P	
1824.e		Terminal shields for	4P breaker	Set of 2	EZATSHD4P	
DB100824.eps						
	6 18 10					
	No. To San Control					
	The state of the s					
	Phase barriers					
s	\ \	Phase barriers		Set of 2	EZAFASB2	
DB100826.eps		T Hado barrioro		001012	LEMINODE	
B1008						
۵						
	Electrical auxiliaries					
	Electrical auxiliaries Indication contacts					
sde		Auxiliary switch (AX	()		EZAUX10	
1662.eps			()		EZAUX10	
DB111662.eps			()		EZAUX10	
DB111662.eps			()		EZAUX10	
DB111662.eps			()		EZAUX10	
DB111662.eps			()		EZAUX10	
		Auxiliary switch (AX	()			
			()		EZAUX10	
		Auxiliary switch (AX	()			
DB111663.eps DB111662.eps		Auxiliary switch (AX	()			
		Auxiliary switch (AX	()			
		Auxiliary switch (AX	()			
		Auxiliary switch (AX			EZAUX01	
s DB111663.eps		Auxiliary switch (AX	() larm switch (AX + AL)			
s DB111663.eps		Auxiliary switch (AX			EZAUX01	
		Auxiliary switch (AX			EZAUX01	
s DB111663.eps		Auxiliary switch (AX			EZAUX01	
s DB111663.eps		Auxiliary switch (AX			EZAUX01	

EZC100N/H/B/F (cont.)

Accessories (cont.)

Electrical auxilia	rioo (cont.)		
Voltage releases			
H		Voltage	MX/SHT
WII .	AC	100-130 V	EZASHT100AC
		200-277 V	EZASHT200AC
		380-480 V	EZASHT380AC
	DC	24 V	EZASHT024DC
		48 V	EZASHT048DC



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

Under voltage release (UVR)

Rotary handles

Direct rotary handle (for 3/4P breaker)



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

Extended rotary handle (for 3/4P breaker)



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

Locks

Padlocking system



Padlocking system	EZALOCK

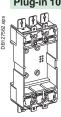
Installation accessory

DIN rail adaptor



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

Plug-in Plug-in 100 A



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

EZC250F/N/H 2P/3P Circuit breaker

EasyPact EZC250F 3P 18	kA 400/415 V		
With thermal magnetic trip unit			
	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			
	Rating		3P 3t
	100 A		EZC250N3100
0.000	125 A		EZC250N3125
3	150 A		EZC250N3150
	160 A		EZC250N3160
	175 A		EZC250N3175
	200 A		EZC250N3200
	225 A		EZC250N3225
	250 A		EZC250N3250
EasyPact EZC250H 2/3P 3	6 kA 400/415 V		
With thermal magnetic trip unit			
	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

E	20/44534		
EasyPact EZC250N 4P 25 kA 40	00/415 V		
With thermal magnetic trip unit			
S C C C C C C C C C C C C C C C C C C C	Rating	4P 3t	
	63 A	EZC250N4063	
09111666.055	80 A	EZC250N4080	
	100 A	EZC250N4100	
	125 A	EZC250N4125	
	150 A	EZC250N4150	
	160 A	EZC250N4160	
18 18 18 18 18 18 18 18 18 18 18 18 18 1	175 A	EZC250N4175	
	200 A	EZC250N4200	
	225 A	EZC250N4225	
	250 A	EZC250N4250	
EasyPact EZC250H 4P 36 kA 40	00/415 V		
With thermal magnetic trip unit			
S C	Rating	4P 3t	
09111666	63 A	EZC250H4063	
	80 A	EZC250H4080	
	100 A	EZC250H4100	
	125 A	EZC250H4125	
	150 A	EZC250H4150	
	160 A	EZC250H4160	
TS TS TS TS	175 A	EZC250H4175	
Ma m	200 A	EZC250H4200	
	225 A	EZC250H4225	
	250 A	EZC250H4250	

EZCV250N/H3P/4PEarth-leakage circuit breaker

	EasyPact EZCV250N 3P 25 kA 400/415 V		
	With thermal magnetic trip unit and earth leakage pro	tection	
	Sort	Rating	3P 3t
504.e		63 A	EZCV250N3063
DB111504.eps		80 A	EZCV250N3080
-	⊕ LINE ⊕	100 A	EZCV250N3100
}		125 A	EZCV250N3125
		150 A	EZCV250N3150
ł	LOAD	160 A	EZCV250N3160
ļ		175 A	EZCV250N3175
	The state of the s	200 A	EZCV250N3200
		225 A	EZCV250N3225
		250 A	EZCV250N3250
	EasyPact EZCV250H 3P 36 kA 400/415 V		
	With thermal magnetic trip unit and earth leakage pro	tection	
sde		Rating	3P 3t
		63 A	EZCV250H3063
DB111504.		80 A	EZCV250H3080
	LINE	100 A	EZCV250H3100
}		125 A	EZCV250H3125
		150 A	EZCV250H3150
į	O LOAD	160 A	EZCV250H3160
Į		175 A	EZCV250H3175
	The second second	200 A	EZCV250H3200
		225 A	EZCV250H3225
	E	250 A	EZCV250H3250
	EasyPact EZCV250N 4P 25 kA 400/415 V		
	EasyPact E2CV250N 4P 25 KA 400/415 V With thermal magnetic trip unit and earth leakage pro		
sde		Rating	4P 3t
sde		Rating 63 A	EZCV250N4063
		Rating 63 A 80 A	EZCV250N4063 EZCV250N4080
sde		Rating 63 A 80 A 100 A	EZCV250N4063 EZCV250N4080 EZCV250N4100
sde		Rating 63 A 80 A 100 A 125 A	EZCV250N4063 EZCV250N4080 EZCV250N4100 EZCV250N4125
sde	With thermal magnetic trip unit and earth leakage pro	Rating 63 A 80 A 100 A 125 A 150 A	EZCV250N4063 EZCV250N4080 EZCV250N4100 EZCV250N4125 EZCV250N4150
sde	With thermal magnetic trip unit and earth leakage pro	Rating 63 A 80 A 100 A 125 A 150 A	EZCV250N4063 EZCV250N4080 EZCV250N4100 EZCV250N4125 EZCV250N4150 EZCV250N4160
sde		Rating 63 A 80 A 100 A 125 A 150 A 160 A	EZCV250N4063 EZCV250N4080 EZCV250N4100 EZCV250N4125 EZCV250N4150 EZCV250N4160 EZCV250N4175
sde	With thermal magnetic trip unit and earth leakage pro	Rating 63 A 80 A 100 A 125 A 150 A 160 A 175 A 200 A	EZCV250N4063 EZCV250N4080 EZCV250N4100 EZCV250N4125 EZCV250N4150 EZCV250N4160 EZCV250N4175 EZCV250N4200
sde	With thermal magnetic trip unit and earth leakage pro	Rating 63 A 80 A 100 A 125 A 150 A 160 A	EZCV250N4063 EZCV250N4080 EZCV250N4100 EZCV250N4125 EZCV250N4150 EZCV250N4160 EZCV250N4175 EZCV250N4200 EZCV250N4225
DB111505.eps	With thermal magnetic trip unit and earth leakage pro	Rating 63 A 80 A 100 A 125 A 150 A 160 A 175 A 200 A 225 A	EZCV250N4063 EZCV250N4080 EZCV250N4100 EZCV250N4125 EZCV250N4150 EZCV250N4160 EZCV250N4175 EZCV250N4200
DB111505.eps	With thermal magnetic trip unit and earth leakage pro	Rating 63 A 80 A 100 A 125 A 150 A 160 A 175 A 200 A 225 A 250 A	EZCV250N4063 EZCV250N4080 EZCV250N4100 EZCV250N4125 EZCV250N4150 EZCV250N4160 EZCV250N4175 EZCV250N4200 EZCV250N4225
DB1/1/505.eps	With thermal magnetic trip unit and earth leakage pro	Rating 63 A 80 A 100 A 125 A 150 A 160 A 175 A 200 A 225 A 250 A	EZCV250N4063 EZCV250N4080 EZCV250N4100 EZCV250N4125 EZCV250N4150 EZCV250N4160 EZCV250N4175 EZCV250N4200 EZCV250N4205
eps DB111505.eps	With thermal magnetic trip unit and earth leakage pro	Rating 63 A 80 A 100 A 125 A 150 A 160 A 175 A 200 A 225 A 250 A	EZCV250N4063 EZCV250N4080 EZCV250N4100 EZCV250N4125 EZCV250N4150 EZCV250N4160 EZCV250N4175 EZCV250N4200 EZCV250N4205 EZCV250N4205
eps DB111505.eps	With thermal magnetic trip unit and earth leakage pro	Rating 63 A 80 A 100 A 125 A 150 A 160 A 175 A 200 A 225 A 250 A tection Rating 63 A	EZCV250N4063 EZCV250N4080 EZCV250N4100 EZCV250N4125 EZCV250N4150 EZCV250N4175 EZCV250N4200 EZCV250N4200 EZCV250N4205 EZCV250N4250
DB1/1/505.eps	With thermal magnetic trip unit and earth leakage pro	Rating 63 A 80 A 100 A 125 A 150 A 160 A 175 A 200 A 225 A 250 A tection Rating 63 A 80 A	EZCV250N4063 EZCV250N4080 EZCV250N4100 EZCV250N4125 EZCV250N4150 EZCV250N4175 EZCV250N4200 EZCV250N4200 EZCV250N4205 EZCV250N4250
eps DB111505.eps	With thermal magnetic trip unit and earth leakage pro	Rating 63 A 80 A 100 A 125 A 150 A 160 A 175 A 200 A 225 A 250 A tection Rating 63 A	EZCV250N4063 EZCV250N4080 EZCV250N4100 EZCV250N4125 EZCV250N4150 EZCV250N4175 EZCV250N4200 EZCV250N4200 EZCV250N4205 EZCV250N4250
eps DB111505.eps	With thermal magnetic trip unit and earth leakage pro	Rating 63 A 80 A 100 A 125 A 150 A 160 A 175 A 225 A 250 A tection Rating 63 A 80 A 100 A	EZCV250N4063 EZCV250N4080 EZCV250N4100 EZCV250N4125 EZCV250N4150 EZCV250N4175 EZCV250N4175 EZCV250N4200 EZCV250N4205 EZCV250N4205 EZCV250N4205 EZCV250N4250
eps DB111505.eps	With thermal magnetic trip unit and earth leakage provided by the second of the second	Rating 63 A 80 A 100 A 125 A 150 A 160 A 175 A 200 A 250 A tection Rating 63 A 80 A 100 A 125 A	EZCV250N4063 EZCV250N4080 EZCV250N4100 EZCV250N4125 EZCV250N4150 EZCV250N4175 EZCV250N4175 EZCV250N4200 EZCV250N4205 EZCV250N4205 EZCV250N4250 EZCV250N4250 EZCV250N4250 EZCV250N4250
eps DB111505.eps	With thermal magnetic trip unit and earth leakage provided by the second of the second	Rating 63 A 80 A 100 A 125 A 150 A 160 A 175 A 200 A 225 A 250 A tection Rating 63 A 80 A 100 A 125 A	EZCV250N4063 EZCV250N4080 EZCV250N4100 EZCV250N4125 EZCV250N4150 EZCV250N4175 EZCV250N4200 EZCV250N4205 EZCV250N4250 EZCV250N4250 EZCV250N4250 EZCV250H4063 EZCV250H4080 EZCV250H4100 EZCV250H4150
eps DB111505.eps	With thermal magnetic trip unit and earth leakage pro	Rating 63 A 80 A 100 A 125 A 150 A 160 A 175 A 200 A 225 A 250 A tection Rating 63 A 80 A 100 A 125 A 150 A	EZCV250N4063 EZCV250N4080 EZCV250N4100 EZCV250N4125 EZCV250N4150 EZCV250N4175 EZCV250N4200 EZCV250N4225 EZCV250N4250 4P 3t EZCV250H4063 EZCV250H4080 EZCV250H4100 EZCV250H4100 EZCV250H4100 EZCV250H4150 EZCV250H4160
eps DB111505.eps	With thermal magnetic trip unit and earth leakage provided by the second of the second	Rating 63 A 80 A 100 A 125 A 150 A 160 A 175 A 200 A 225 A 250 A tection Rating 63 A 80 A 100 A 125 A 150 A 160 A	EZCV250N4063 EZCV250N4080 EZCV250N4100 EZCV250N4125 EZCV250N4150 EZCV250N4160 EZCV250N4200 EZCV250N4225 EZCV250N4250 4P 3t EZCV250H4063 EZCV250H4080 EZCV250H4100 EZCV250H4100 EZCV250H4150 EZCV250H4150 EZCV250H4150
eps DB111505.eps	With thermal magnetic trip unit and earth leakage provided by the second of the second	Rating 63 A 80 A 100 A 125 A 150 A 160 A 175 A 200 A 225 A 250 A tection Rating 63 A 80 A 100 A 125 A 150 A 160 A	EZCV250N4063 EZCV250N4100 EZCV250N4125 EZCV250N4150 EZCV250N4160 EZCV250N4200 EZCV250N4225 EZCV250N4200 EZCV250N4250 4P 3t EZCV250H4063 EZCV250H4080 EZCV250H4100 EZCV250H4100 EZCV250H4150 EZCV250H4150 EZCV250H4160 EZCV250H4175 EZCV250H4175

EZC250F/N/H, EZCV250N/H Accessories

Connection access	ories		
Cable lugs			
\$	250 A Cables from 42 to 152 mm ²	Set of 3	EZELUG2503
DB102509 aps		Set of 4	EZELUG2504
DB4			
Terminal extensions			
	Terminal extension for 3P breaker	Set of 3	EZETEX
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Terminal extension for 4P breaker	Set of 4	EZETEX4P
Spreaders			
	Spreaders for 3P breaker	Set of 3	EZESPDR3P
DBIHE74 ops	Spreaders for 4P breaker	Set of 4	EZESPDR4P
1000 E			
Terminal shields	Tarringlabields for 2D by the (00 cost does)	0-4-10	FZETCUDAD
sd e	Terminal shields for 3P breaker (60 mm depth) Terminal shields for 3P breaker (68 mm depth)	Set of 2 Set of 2	EZETSHD3PN
DB105210.eps	Terminal shields for 4P breaker (68 mm depth)	Set of 2	EZETSHD3FN EZETSHD4PN
	Tommar official for 11 Breaker (commit dopan)	00(0)2	LLLIGHTH
1. A B]			
Phase barriers		0	1
sep.	Phase barriers for 60 mm depth Phase barriers for 68 mm depth	Set of 2 Set of 3	EZEFASB2 EZEFASB3N
DB105211.6ps	Phase barriers for 66 min depth	Set 01 3	EZEFASBSN
Electrical auxiliarie	S		
Indication contacts			
	Auxiliary switch (AX)		EZEAX
DB105212.498			
DB10			
	Alores suitals (AL)		F7FA1
13.eps	Alarm switch (AL)		EZEAL
DB105213.9p			
9	Auxiliary switch + alarm switch (AX + AL)		EZEAXAL
214.9			
DB105214			
- ~ <i>I</i>			
s (C)	Earth-leakage alarm switch (ALV) (only for EZCV250)		EZEALV
			•
DB111667.			
*			

Electric	cal auxiliaries	S (cont.)			
Voltage r	eleases				
			Voltage	MX/SHT	
DB105215.eps		AC	100-120 V	EZESHT100AC	
and the same of th			120-130 V	EZESHT120AC	
			200-240 V	EZESHT200AC	
Shunt trip ((SHT)		277 V	EZESHT277AC	
			380-440 V	EZESHT400AC	
			440-480 V	EZESHT440AC	
		DC	24 V	EZESHT024DC	
			48 V	EZESHT048DC	
s 🔊			Voltage	MN/UVR	MN/UVR (1)
1111506.	g APR	AC	110-130 V	EZEUVR110AC	EZEUVRN110AC
	DB111632.eps		200-240 V	EZEUVR200AC	EZEUVRN200AC
	DB1116		277 V	EZEUVR277AC	EZEUVRN277AC
			380-415 V	EZEUVR400AC	EZEUVRN400AC
(UVR)	(UVRN)		440-480 V	EZEUVR440AC	EZEUVRN440AC
		DC	24 V	EZEUVR024DC	EZEUVRN024DC
Under vol	tage release		48 V	EZEUVR048DC	EZEUVRN048DC
			125 V	EZEUVR125DC	EZEUVRN125DC
			(1) Only EZC250-41	Pand EZCV250-3/4P	

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

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

Locks			
Padlocking syste	m		
: (Chan	Padlocking system for EZC250-3P	EZELOCK	
	Padlocking system for EZC250-4P and EZCV250-3/4P	EZELOCKN	
201			
Plug-in			
Plug-in 250 A			

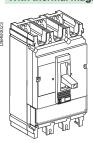
DB105218.eps

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

EZC400N/H3P/4P Circuit breaker

EasyPact EZC400N 3P 36 kA 400/415 V

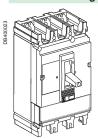
With thermal magnetic trip unit



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

EasyPact EZC400H 3P 50 kA 400/415 V

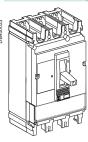
With thermal magnetic trip unit



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

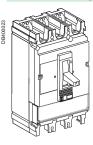
EasyPact EZC400N 4P 36 kA 400/415 V

With thermal magnetic trip unit



Rating	4P 3t
320 A	EZC400N4320N
350 A	EZC400N4350N
400 A	EZC400N4400N

EasyPact EZC400H 4P 50 kA 400/415 V With thermal magnetic trip unit

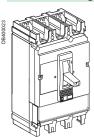


Rating	4P 3t
320 A	EZC400H4320N
350 A	EZC400H4350N
400 A	EZC400H4400N

EZC630N/H3P/4P Circuit breaker

EasyPact EZC630N 3P 36 kA 400/415 V

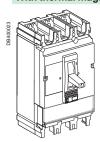
With thermal magnetic trip unit



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

EasyPact EZC630H 3P 50 kA 400/415 V

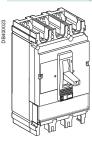
With thermal magnetic trip unit



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

EasyPact EZC630N 4P 36 kA 400/415 V

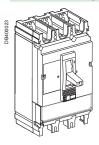
With thermal magnetic trip unit



Rating	4P 3t
400 A	EZC630N4400N
500 A	EZC630N4500N
600 A	EZC630N4600N

EasyPact EZC630H 4P 50 kA 400/415 V

With thermal magnetic trip unit



Rating	4P 3t
400 A	EZC630H4400N
500 A	EZC630H4500N
600 A	EZC630H4600N

EZC400/630N/H Accessories

Connection acc	essories (Cu or AI)			
Rear connections				
P	2 short			LV432475
TO THE OWNER OF THE OWNER	2 long			LV432476
All All				
Cable connectors (1)				
A	Aluminium connector 1x (35 to 300 mm²)		Set of 3	LV432479
	,		Set of 4	LV432480
A.	Aluminium connector 2x (35 to 240 mm²)		Set of 3	LV432481
			Set of 4	LV432482
(I)				
	Voltage plug for aluminium connector 1 or 2 cables		Set of 10	LV429348
	gg a.a		23.00	,
	0			
Terminal extension (0-4-40	13/420404
-6	Right-angle terminal extension		Set of 3	LV432484
1000 m			Set of 4	LV432485
(a) (b) (c)	Edgewise terminal extensions		Set of 3	LV432486
			Set of 4	LV432487
@	Chrondero	5 mm	3P	LV432490
n PJ	Spreaders 52.	5 111111	3P 4P	LV432490 LV432491
186	70	mm	3P	LV432492
Blance	70		4P	LV432493
Crimp lugs for copp	er cable (1)		•	1
	For cable 240 mm ²		Set of 3	LV432500
nº li			Set of 4	LV432501
1. 品頭	For cable 300 mm ²		Set of 3	LV432502
860			Set of 4	LV432503
10	Supplied with 2 (or 3) interphase barriers			
Crimp lugs for alum	nium cable ⁽¹⁾			
	For cable 240 mm ²		Set of 3	LV432504
ni Ni Ni			Set of 4	LV432505
U A A	For cable 300 mm ²		Set of 3	LV432506
			Set of 4	LV432507
- E	Supplied with 2 (or 3) interphase barriers			
Insulation accessor	es			
	Short terminal shield, 45 mm (1 piece)		3P	LV432591
San			4P	LV432592
Australia	Long terminal shield, 45 mm (1 piece)		3P	LV432593
			4P	LV432594
3	Interphase barriers		Set of 6	LV432570
h h h	Long terminal shiled for spreaders, 52,5mm (1 piece) (supplied	d with insulating plate)	3P	LV432595
	O'contation and (70 mm mitch)		4P	LV432596
	2 insulating screens (70 mm pitch)		3P	LV432578
			4P	LV432579

⁽¹⁾ supplied with 2 or 3 interphase barriers

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

ary contacts ((changeover)			
ixiliary contacts (Changeover) OF or SD or SDE	or SDV		29450
	OF or SD or SDE			29450
		datory for trip unit TM		LV540050
9	SDE adaptor man	datory for trip unit 1 M		LV340030
Itage releases				
		Voltage	MX	MN
	AC	24 V 50/60 Hz	LV429384	LV429404
		48 V 50/60 Hz	LV429385	LV429405
		110-130 V 50/60 Hz	LV429386	LV429406
		220-240 V 50/60 Hz and 208-277 V 60 Hz	LV429387	LV429407
		380-415 V 50 Hz and 440-480 V 60 Hz	LV429388	LV429408
	DC	Voltage		
		12 V	LV429382	LV429402
		24 V	LV429390	LV429410
		30 V	LV429391	LV429411
		48 V	LV429392	LV429412
		60 V	LV429383	LV429403
		125 V	LV429393	LV429413
		250 V	LV429394	LV429414
	MN 48 V 50/60 H	z with fixed time delay		1220714
	Composed of:	MN 48 V DC		LV429412
	30p0000 01.	Delay unit 48 V 50/60 Hz		LV429426
	MN 220-240 V 50	0/60 Hz with fixed time delay		27720720
	Composed of:	MN 250 V DC		LV429414
	3 5p 3000 or.	Delay unit 220-240 V 50/60 Hz		LV429427
	MN 48 V DC/AC 5	0/60 Hz with adjustable time delay		
	Composed of:	MN 48 V DC		LV429412
	Composed of.	Delay unit 48 V 50/60 Hz		33680
	MN110-130 V DC	/AC 50/60 Hz with adjustable time delay		00000
	Composed of:	MN 125 V DC		LV429413
	Joinposed of.	Delay unit 110-130 V 50/60 Hz		33681
	MNI 220 250 \/ 50	60 Hz with adjustable time delay		33001
		MN 250 V DC		LV429414
	Composed of:			

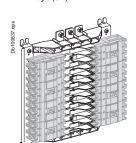
EZC400/630N/H (cont.) Accessories (cont.)

	Rotary handle	
	Direct rotary handle	
E18611	Standard black handle	LV432597
	Extended rotary handle	
E18612	Standard extended rotary handle	LV432598

	Locks			
	Toggle locking device	for 1 to 3 padlocks		
E18621		By removable device		29370
E18613		By fixed device		32631
	Locking of the rotary h	nandle		
		Keylock adaptor (keylock not included)		LV432604
0		Keylock (keylock adaptor not included)	Ronis 1351B.500	41940
E18620			Profalux KS5 B24 D4Z	42888

EasyPact EZC Busbar Type-tested solution IEC 60439

Main Busbar				
Main Busbar (EasyPage	et EZC 100/3P)	250 A	400 A	630 A
8 _ CA	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
	,	·	·	



8 ways (3P)

Branch extension (EasyPact EZC/Compact NSX/NB)



	•	•	
2 ways			EZBNS2
l ways			EZBNS4

4 ways (3P)

Main incoming connections (Easypact EZG	C/Compact NSX/NB)



	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
40.eps		Incoming cable size	16-150 mm ²		25-240 mm ² 2 cables per phase
Db1006		Lug kit for bare incoming cables	EZB250MLUG	EZB400MLUG	EZB630MLUG

(Connector caps			
sd <		Connector caps for 100 A out goings	Set of 3	EZB100CAP
841.6		Connector caps for 250 A out goings	Set of 3	EZB250CAP
Db100		To isolate connections when branch break	er not installed	

Notes

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