



Catalog 2021 Molded-case circuit breakers from 16 to 630A



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An industry leading portfolio of offers delivering sustainable value



More than 75% of our product sales offer superior transparency on the material content, regulatory information and environmental impact of our products:

- RoHS compliance
- REACh substance information
- Industry leading # of PEP's*
- · Circularity instructions



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We're helping our customers optimize the total cost of ownership of their assets. To do this, we provide IoT-enabled solutions, as well as upgrade, repair, retrofit, and remanufacture services.

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Improved sales through... Differentiation

Green Premium delivers strong value propositions through third-party labels and services. By collaborating with third-party organizations we can support our customers in meeting their sustainability goals such as green building certifications.





Fundamentals of protection...

Inherited from the design and technology of the top-selling EasyPact range of MCCB worldwide, EasyPact EZS is an economical solution that is the best value for money in its class. It is specially designed and dedicated to small-medium sized buildings, factories, OEMs and many simple yet demanding applications.

EasyPact EZS is equipped with a classic Schneider Electric inbuilt TM-D thermal-magnetic trip unit, ranging from 16 to 630A. Accessories are common and compatible with the entire EasyPact range of MCCB.

The easy choice for affordable price

Breaking capacity

Easy to choose

- > From 16 to 630A
- > Up to 50kA at 415V
- > Up to 4 poles
- > Up to 3 frame sizes

Easy to install

- > Fixed front mounting
- > Front connections
- > Field-installable auxiliaries and accessories
- > Installation video through QR Code

Easy to use

- > Hassle-free on any setting requirements
- > Small size optimised for tight spaces
- > Positive contact indication for safety and reliability



Timely delivery, wherever you are

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



General contents



Functions and characteristics



Functions and characteristics

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Functions and characteristics

Introduction General characteristics

EasyPa	ict /	_	2
EZS160	F	*	7
Ui Uimp	690V 8kV		3
Ue(V~) 220/240 380/400 415 440	Icu(kA) 70 36 36 36 36	Ics(kA) 70 36 36 18	4 5 6
50/60Hz IEC/EN60)947-2	Cat. A	8

Standardised characteristics indicated on the rating plate:

- Type of device: frame size and breaking capacity class
- 2 Ui: rated insulation voltage.
- 3 Uimp: rated impulse withstand voltage.
- Ue: operational voltage. 4
- 5 Icu: ultimate breaking capacity for various values of the rated operational voltage Ue. 6
- Ics: service breaking capacity.
- Suitable for Isolation symbol. 8
- Reference standard.

Note: when the circuit breaker is equipped with an extended rotary handle, the door must be opened to access the rating plate.

Compliance with standards

EasyPact EZS circuit breakers and auxiliaries comply with the following international recommendations:

- IEC 60947-1: general rules.
- IEC 60947-2: circuit breakers.

Pollution degree

EasyPact EZS circuit breakers are certified for operation in pollution-degree III environments as defined by IEC standards 60947-1 and 60664-1 (industrial environments).

Climatic withstand

EasyPact EZS circuit breakers have successfully passed the tests defined 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 severity level 2: salt mist.

Environment

EasyPact EZS respects the European environment directive EC/2002/95 concerning the restriction of hazardous substances (RoHS). All EasyPact EZS production sites have set up an ISO 14001 certified environmental management system.

Ambient temperature

- EasyPact EZS circuit breakers can be used between -25°C and +70°C. For temperatures higher than 40°C (65°C for circuit breakers used to protect motor feeders), devices must be derated (see page B-2).
- Circuit breakers should be put into service under normal ambient, operatingtemperature conditions. Exceptionally, the circuit breaker can be put into service when the ambient temperature is between -35°C and -25°C.
- The permissible storage-temperature range for EasyPact EZS circuit breakers in the original packing is -50°C and +85°C.

Introduction General characteristics

Suitable for isolation with positive contact indication

All EasyPact EZS 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 OFF position unless the contacts are effectively open.
- Padlocks cannot be installed unless the contacts are open.

Installation of a rotary handle does not alter the reliability of the positionindication system.

- The isolation function is certified by tests guaranteeing:
- The mechanical reliability of the position-indication system.
- The absence of leakage currents.
- Over voltage withstand capacity between upstream and downstream connections.

The tripped position does not ensure isolation with positive contact indication. Only the OFF position guarantees isolation.

Installation in class II switchboards

All EasyPact EZS circuit breakers are class II front face devices. They can be installed through the door of class II switchboards (as per IEC standards 61140 and 60664-1) without downgrading switchboard insulation. Installation requires no special operations, even when the circuit breaker is equipped with a rotary handle.

Degree of protection

The following indications are in accordance with standards IEC 60529 (IP degree of protection) and IEC 62262 (IK protection against external mechanical impacts).

Bare circuit breaker with Escutcheon:

- with toggle: IP40, IK07 front face.
- with extended rotary handle: IP 54, IK08.

Circuit breaker installed in a switchboard:

- with toggle: IP40, IK07 front face.
- with extended rotary handle: IP 54, IK08.

Functions and characteristics

Introduction Characteristics and performance

Common characteristics								
Rated voltage								
Insulation voltage (V)	Ui		690					
Impulse withstand voltage (kV)	Uimp		8 (1)					
Operational voltage (V)	Ue	AC 50/60 Hz	440					
Suitability for isolation		IEC/EN 60947-2						
Utilisation category			A					
Pollution degree		IEC 60664-1	3					
Control	Manual	Toggle	•					
		Direct or extended rotary handle	•					



(1) Uimp for EZS100 = 6kV.



EasyPact EZS100E/F



EasyPact EZS160/250



EasyPact EZS400/630

16, 20, 25, 3 80,	2, 40, 50, 63, 100	100, 12	25, 160	200, 22	25, 250	315, 35	50, 400	500,	, 600			
3,	4	3,	4	3,	4	3,	4	3, 4				
Е	F	E	F	Е	F	F	Ν	F	Ν			
50	60	40	70	40	70	40	70	40	70			
25	30	25	36	25	36	36	50	36	50			
25	30	25	36	25	36	36	50	36	50			
17	20	20	36	20	36	30	42	30	42			
25	30	40	70	40	70	40	70	40	70			
15	17	25	36	25	36	36	50	36	50			
		25	36	25	36	36	50	36	50			
 		15	18	15	18	23	32	23	32			
130	000	250	000	200	000	150	000	15000				
40	00	250	25000 20			120	000	<u>4000</u>				
-	-	120	000	100	000	60	00	40	00			
					•							
					-							
					•							
					•							
75 x 13	30 x 60		105 x 1	61 x 86			140 x 25	55 x 110				
100 x 1	30 x 60		140 x 1	61 x 86			185 x 25	55 x 110				
0.	78	1	.8	2	.0	4	.7	5.	.2			
1.	.0	2	.3	2	.6	6	.3	7.	.1			
05	125		05	IAE			A = 11	50 F				
25/	00		35	/45			45/3	02.0 /70				
E	0		21	00			45	240				
5	0	1	300				4 × 240					

EZS250

EZS400

EZS630

EZS100

EZS160

TM-D thermal-magnetic trip units

TM-D thermal-magnetic trip units can be used on **Easy**Pact EZS100-630 circuit breakers with performance levels E/F/N.

TM-D thermal-magnetic trip units



Protection

TM-D trip units are used mainly in electrical distribution applications for protection of cables supplied by transformers.

Thermal protection (Ir)

Thermal protection operates according to:

- Ir non-adjustable.
- non-adjustable time delay.

Magnetic protection (Im)

Short-circuit protection with a fixed or adjustable pick-up Im that initiates instantaneous tripping if exceeded.

fixed pick-up.

Protection versions

- 3-pole:
- □ 3P 3D: 3-pole frame (3P) with detection on all 3 poles (3D).
- 4-pole:
- □ 4P 3D: 4-pole frame (4P) with detection on 3 poles (3D).

Thermal-magnet	ic trip units	тм	16) to	250	D							тм	320	Dto	6 0	0D			
Ratings (A)	In at 40 °C (1)	16	20	25	32	40	50	63	80	100	125	160	200	225	250	315	350	400	500 6	00
Circuit breaker	EZS100																			
	EZS160																			
	EZS250												-							
	EZS400															•		•		
	EZS630																	•		
Magnetic protection																				
Pick-up (A)	Im	fixed																		
accuracy ±20 %	EZS100	300	300	300	300	500	500	750	1000	1000										
	EZS160									800	1250	1250	1							
	EZS250												2000	2500	2500					
	EZS400															3200	3500	4000		
	EZS630																		5000 50	000
Thermal protection																				
Pick-up (A)	lr = In	fixed																		
Neutral protection																				
Unprotected neutral	4P 3D	no d	etect	ion																

(1) For temperatures not equal to 40°C, the thermal protection characteristics are modified. See the temperature derating table on page B-2.

Accessories and auxiliaries

Overview

Insulation accessories > E-3, E-6, E-9



Control accessories > A-12



Direct rotary handle



Extended rotary handle

Accessories and auxiliaries

Device installation

EZS circuit breakers may be installed horizontally, vertically or flat on their back, without derating performance levels.

Fixed circuit breakers

Fixed circuit breakers are designed for standard connection using bars or cables with lugs. Bare-cable connectors are available for connection to bare copper or aluminium cables.





DB400011

Mounting on a backplate.

Mounting on rails.

Mounting on DIN rail (with adaptor).

Functions and characteristics

Accessories and auxiliaries

Selection of auxiliaries



EasyPact EZS100



EasyPact EZS160-250



EasyPact EZS400-630

EasyPact EZS160/250

Standard

All EasyPact EZS160~250 circuit breakers have slots for the electrical auxiliaries listed below.

3 indication contacts (see page A-10)

- 2 ON/OFF (OF1 and OF2).
- 1 trip indication (SD).
- 1 remote-tripping release (see page A-11)
- either 1 MN undervoltage release.
- or 1 MX shunt release.

All these auxiliaries can be installed with a rotary handle.

EasyPact EZS400/630

Standard

All EasyPact EZS400/630 circuit breakers have slots for the electrical auxiliaries listed below.

4 indication contacts (see page A-10)

- 3 ON/OFF (OF3).
- 1 trip indication (SD).
- 1 remote-tripping release (see page A-11)
- either 1 MN undervoltage release.
- or 1 MX shunt release.

All these auxiliaries can be installed with a rotary handle.

Functions and characteristics

Accessories and auxiliaries

Indication contacts

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



EasyPact EZS100 auxiliary switch



For EasyPact EZS100

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.

EasyPact EZS100

Indication contacts

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

Auxiliary switch (ON/OFF)

AX indicates the position of the circuit breaker contacts.

Alarm switch (trip indication)

■ AL indicates that the circuit breaker has tripped due to:

- an overload.
- a short-circuit.

□ operation of a voltage release.

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

Characteristics

Contacts

Contacts							
Rated thermal current (A)	5					
Minimum load	/	10 mA at 24 V					
Utilisation category (IEC	C 60947-5-1)	AC12	AC15				
Operational current (A)	24 V	5	5				
	48 V	5	5				
	125 V	5	3				
	250 V	3	2				
Connections							
Connection wire length		450 mm					
Cross-section		EZS100: 1 mm ² ,					
		EZS250: 1.5 mm ²					

EasyPact EZS160-630

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.
- operation of a voltage release.

 $\hfill\square$ 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.

Installation

OF, SD 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, SI)			
Rated therm	al current (A	4)	6				5				
Minimum loa	d		100 m/	A at 24 '	V DC		1 mA a	at 4 V D	4 V DC		
Utilisation cat. (IEC 60947-5-1)			AC12	AC15	DC12	DC14	AC12	AC15	DC12	DC14	
Operational	24 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	-	-	

Accessories and auxiliaries

Remote tripping



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 ≤ 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 (\ge 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 x 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 %.

Opening conditions of the MX release

Functions and characteristics

Accessories and auxiliaries

Rotary handles

There are two types of rotary handle: direct rotary handle

extended rotary handle.



EasyPact EZS with a rotary handle.



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

Direct rotary handle

Standard handle

Degree of protection IP40, IK07.

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

Device locking

The rotary handle facilitates circuit-breaker locking.

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

Extended rotary handle Degree of protection IP54, IK08.

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

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

Device and door padlocking

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

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

Parts of the extended rotary handle

- 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:
- □ 145...530 mm for EasyPact EZS100.
- □ 185...600 mm for EasyPact EZS160/250.
- □ 209...600 mm for EasyPact EZS 400/630.

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Temperature derating

Ambient temperature

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

- EasyPact EZS circuit breakers may be used between -25°C and +70°C.
- EasyPact EZS circuit breakers should be put into service under normal ambient operating temperature conditions. Exceptionally, the circuit breaker may be put into service when the ambient temperature is between -35°C and -25°C.
- the permissible storage-temperature range for EasyPact EZS 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.

EZS100

Rated current	Temperature								
(A)	40°C	45°C	50°C	55°C	60°C	65°C	70°C		
16	16.7	16.3	16	15.7	15.6	15.1	14.7		
20	20.4	20.2	20	19.7	19.2	18.9	18.5		
25	25.7	25.3	25	24.7	24.5	24.3	24.0		
32	33.5	32.7	32	31.4	31.0	30.4	29.9		
40	40.9	40.4	40	39.5	38.0	37.6	37.1		
50	52.1	51.0	50	49.3	48.1	47.3	46.6		
63	64.9	63.9	63	62.0	60.4	59.4	58.5		
80	82.2	81.1	80	78.6	77.3	76.7	76.1		
100	103.0	101.0	100	99.0	94.0	94.0	93.0		

EZS160~630

Rated current	Tempe	rature					
(A)	40°C	45°C	50°C	55°C	60°C	65°C	70°C
100	100	97.0	95.0	92.0	89.0	86.0	83.0
125	125	122.0	119.0	116.0	113.0	109.0	106.0
140	140	135.5	130.9	126.1	121.2	116.0	110.6
160	160	156.0	152.0	148.0	144.0	140.0	136.0
180	180	173.2	166.2	158.8	151.0	142.9	134.2
200	200	195.0	190.0	185.0	180.0	175.0	170.0
225	225	216.9	208.6	199.9	190.7	181.2	171.1
250	250	244.0	238.0	231.0	225.0	219.0	213.0
315	315	307.6	300.0	292.1	284.1	275.9	267.3
350	350	339.5	328.8	317.6	306.1	294.1	281.5
400	400	390.0	379.3	368.5	357.3	345.8	334.0
500	500	489.6	479.0	468.0	457.0	445.4	433.6
600	600	587.0	574.0	560.6	547.0	532.7	518.0

Installation in switchboards

Power supply and Safety clearances



Power supply from the top or bottom

EZS circuit breakers can be supplied from either the top or the bottom without any reduction in performance. This capability facilitates connection when installed in a switchboard.

All connection and insulation accessories can be used on circuit breakers supplied either from the top or bottom.

General rules

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
- segregate the busbars using insulating screens.

For EZS100 to 630 devices, terminal shields and interphase barriers are recommended and may be mandatory depending on the operating voltage of the device and type of installation (fixed, withdrawable, etc.).

Power connections

The table below indicates the rules to be respected for EZS100 to 630 devices to ensure the insulation of live parts for fixed devices.

EZS100 to 630: rules to be respected to ensure the insulation of live parts

Type of c	onnection		Fixed, front o	connection		Fixed, rear connection
			DB400039			DBADODAD
Possible, r With:	ecommended or	mandatory accessories:	No insulating accessory	Interphase barriers	Long terminal shields ⁽¹⁾	Short terminal shields
operating	voltage typ	e of conductor				
≤ 440 V	Insulated bars	0	Possible	Possible	Possible	Recommended
	Extension termin Cables + crimp lugs		No	Mandatory (supplied)	Possible (instead of ph. barriers)	Recommended
	Bare cables + connectors		Possible for EZS100 to 250	Possible for EZS100 to 250	Possible for EZS100 to 250	
			No	Mandatory (supplied)	Possible (instead of ph. barriers)	Recommended

(1) Long terminal shields provide a degree of protection of IP40 (ingress) and IK07 (mechanical impact).

Installation in switchboards

Installation example









Devices without accessories.

Devices with interphase barriers or long terminal shields.

Minimum safety clearances for EZS100 to 630

Dimensions (mm)	nensions (mm) Insulation, insulated bar cuit breaker or painted sheet metal				Bare sheet metal				
ch cut bi caker	C1	D1	D2	C1	D1	D2	A1		
$EZS100-250 U \le 440V$	0	30	30	5	35	35	0		
$\textbf{EZS400-630} \textbf{U} \leq \textbf{440V}$	0	30	30	5	60	60	0		

Installation in switchboards

Installation example

0

U



Clearances with respect to live bare busbars Minimum clearances for EZS100 to 630

perating voltage	Clearances v	vith respect to	th respect to live bare busbars				
	spacing ≤ 60	mm	spacing > 60	mm			
	F1	F2	F1	F2			
< 440 V	350	350	80	80			
= 440 V	350	350	120	120			

U = 440 V350350120120These clearances can be reduced for special installations as long as the configuration is
checked by tests.

Live busbars.



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Dimensions and mounting

EasyPact EZS100

Dimensions







Backplate mounting





DIN rail mounting







Dimensions and mounting

EasyPact EZS100

Front panel cutout





Dimensions and mounting

EasyPact EZS100

Terminal shield







Interphase barrier







Dimensions and mounting

Rotary handle for EasyPact EZS160 - 630

Х

Direct rotary handle





3P, 4P

3P

3

X





Extended rotary handle







Dimensions and mounting

EasyPact EZS160 - 630





Dimensions and mounting

Direct rotary handle for **Easy**Pact EZS160 - 630



Туре	A14	A15	A18	B8	B9	B10	C7	C8	C9
EZS160/250	27.5	73	9	45.5	91	9.25	121	155	164
EZS400/630	40	123	24.6	61.5	123	5	145	179	188

Dimensions and mounting

Extended rotary handle for **Easy**Pact EZS160 - 630

Dimensions





Cutout for shaft (mm)	
Туре	R1
EZS160/250	min. 171 max. 600
EZS400/630	min. 195 max. 600

Dimensions and front-panel cutout



Туре	A18	B10
EZS160/250	9	9.25
EZS400/630	24.6	5

Front-panel cutouts

EasyPact EZS160-630



Power connections

EasyPact EZS100





Phase barriers for EZS100



Terminal shield for EZS100

Spreaders

Increase the pitch of the circuit breaker terminals:

■ EZS100 from 25 mm to 35 mm.



Designation	Cat. no.
	EZS100
Spreaders for 3-pole breaker (set of 3)	EZASPDR3P
Spreaders for 4-pole breaker (set of 4)	EZASPDR4P

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 (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.



Phase barriers for 60 mm depth (set of 2)

Terminal shields

Insulating accessory used for protection against direct contacts with power circuit connections. It provides a degree of protection of IP20 and mechanical resistance of IK07.

EZAFASB2

- The long terminal shield is used with front cable or isolated busbar connections.
- Designed for 3-pole EZS100.



Designation	Cat. no.
	EZS100
Terminal shield 3P, 60 mm depth (set of 2)	EZATSHD3P
Terminal shield 4P, 60 mm depth (set of 2)	EZATSHD4P



Power connections

EasyPact EZS160-630







Туре	A1	A2	B1	C1	C2
EZS160	70	140	35	19.5	19.5
EZS250	70	140	35	21.5	19.5
EZS400-630	113.5	227	45	26	26

Front connections without accessories









Connection with accessories

Long and short rear connectors





Power connections

EasyPact EZS160 - 630

Connection with accessories (cont.) Spreaders 3P









EZS400/630



Туре	C3	C4	E1	E2	E3	F1	F2
EZS160	23.5	-	114	45	159	100	11
EZS250	25.5	-	114	45	159	100	11
EZS400/630	-	44	135 170	52.5 70	187.5 240	152.5 166	15 15

Power connections

Connection of insulated bars or cables with lugs to EasyPact EZS160 - 630



Accessories for EZS160/250 Spreaders: separate parts



Tinned copper

Accessories for EZS400/630 Spreaders made up of separate parts for 52.5 and 70 mm pitch



Direct connection to EZS160 - 630 Dimensions EZS160/250 EZS400/630 ≤25 Bars L (mm) ≤ 32 I (mm) d + 10 d + 15 d (mm) ≤10 ≤15 e (mm) ≤6 3≤e≤10 Ø (mm) 8.5 10.5 Lugs L (mm) ≤25 ≤ 32 Ø (mm) 8.5 10.5 Torque (Nm) (1) 15 50 5/5 20/11

Torque (Nm) (2)

(1) Tightening torque on the circuit breaker for lugs or bars.

(2) Tightening torque on fixed devices for rear connectors.

Connection with accessories to EZS160/250 (IEC 228)



(1) Tightening torque on the circuit breaker for spreaders or terminal extensions.

Spreaders are supplied with flexible interphase barriers.

Connection with accessories to EZS400/630 (IEC 228)

Pole pitch			
Without spreaders			45 mm
With spreaders			52.5 or 70 mm
Dimensions			With spreaders
	Bars	L (mm)	≤40
		l (mm)	d + 15
		d (mm)	≤20
	-Ø	e (mm)	3≤e≤10
		Ø (mm)	12.5
	Lugs	L (mm)	≤40
	L	Ø (mm)	12.5
™ _e	Torque	(Nm) ⁽¹⁾	50

(1) Tightening torque on the circuit breaker for spreaders or terminal extensions.

Spreaders and right-angle, 45° and edgewise terminal extensions are supplied with flexible interphase barriers.





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Tripping Curve

EasyPact EZS100 - 630 Protection of distribution systems









50 70 100 200300





80A



100A



Tripping Curve

EasyPact EZS100 - 630 Protection of distribution systems

TM magnetic trip units



TM200D/250D



TM320D/400D



TM500D



Tripping Curve

EasyPact EZS100 - 630 Protection of distribution systems

TM magnetic trip units

TM600D



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Catalogue numbers



Catalogue numbers

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EZS100E/F Circuit breaker

EasyPact EZS100

|--|--|--|

With TM-D therma	al-magnetic trip unit		
	EasyPact EZS100E (25 kA at 38	30/415 V)	
	Rating	3P3d	4P3d
00000	TM16D	EZS100E3016	EZS100E4016
	TM20D	EZS100E3020	EZS100E4020
	TM25D	EZS100E3025	EZS100E4025
2000	TM32D	EZS100E3032	EZS100E4032
A DOLLAR	TM40D	EZS100E3040	EZS100E4040
	TM50D	EZS100E3050	EZS100E4050
	TM63D	EZS100E3063	EZS100E4063
	TM80D	EZS100E3080	EZS100E4080
	TM100D	EZS100E3100	EZS100E4100
	EasyPact EZS100F (30 kA at 38	30/415 V)	
	Rating	3P3d	4P3d
	TM16D	EZS100F3016	EZS100F4016
	TM20D	EZS100F3020	EZS100F4020
	TM25D	EZS100F3025	EZS100F4025
	TM32D	EZS100F3032	EZS100F4032
	TM40D	EZS100F3040	EZS100F4040
	TM50D	EZS100F3050	EZS100F4050
	TM63D	EZS100F3063	EZS100F4063
	TM80D	EZS100F3080	EZS100F4080
	TM100D	EZS100F3100	EZS100F4100

EZS100E/F

Accessories

Connection access	ories			
Cable lugs				
	≤ 50A	Cables from 2.5 to 16 mm ²	Set of 2	EZALUG0502
			Set of 3	EZALUG0503
	> 50A	Cables from 10 to 50 mm ²	Set of 2	EZALUG1002
			Set of 3	EZALUG1003
Spreaders				
- A	Spreaders for 3P break	er	Set of 2	EZASPDR3P
	Spreaders for 4P break	er	Set of 3	EZASPDR4P
500				
Terminal shields				
	Spreaders for 3P break	er	Set of 2	EZATSHD3P
	Spreaders for 4P break	er	Set of 3	EZATSHD4P
e le le				
Phase barriers				
\sim	Phase barriers		Set of 2	EZAFASB2
the second se				
Electrical auxiliarie	S			
Indication contacts				
	Auxiliary switch (AX)			EZAUX10
1 /	Alarm switch (AL)			EZAUX01
m II	Auxiliary switch + alarm	switch (AX + AL)		EZAUX11
				•

EZS100E/F Accessories

Electrical auxiliaries	(cont.)		
Voltage releases			
		Voltage	MX/SHT
開	AC	100 - 130V	EZASHT100AC
		200 - 277V	EZASHT200AC
(j)			
Shunt trip (SHT)			
		Voltage	MN/UVR
₿ //	AC	200 - 240V	EZAUVR200AC
Undervoltage release (UVR)			
Rotary handles			
Direct rotary handle (for 3)	/4P breaker)		
RA.	Direct rotary handle (blac	k)	EZAROTDS
Extended rotary handle (fo	or 3/4P breaker)		
C RAD.	Extended rotary handle (b	olack)	EZAROTE

EZS160/250E/F

Circuit breaker

Commercial references EasyPact EZS160

With TM-D thermal-magnetic



ietic trip unit			
EasyPact EZS160E (25 kA at 38	0/415 V)		
Rating	3P3d	4P3d	
TM100D	EZS160E3100	EZS160E4100	
TM125D	EZS160E3125	EZS160E4125	
TM160D	EZS160E3160	EZS160E4160	
EasyPact EZS160F (36 kA at 38	0/415 V)		
Rating	3P3d	4P3d	
TM100D	EZS160F3100	EZS160F4100	
TM125D	EZS160F3125	EZS160F4125	
TM160D	EZS160F3160	EZS160F4160	

EasyPact EZS250

With TM-D thermal-magnetic trip uni



ne	tic trip unit			
EasyPact EZS250E (25 kA at 380/415 V)				
	Rating	3P3d	4P3d	
	TM200D	EZS250E3200	EZS250E4200	
	TM225D	EZS250E3225	EZS250E4225	
	TM250D	EZS250E3250	EZS250E4250	
	EasyPact EZS250F (36 kA at 380/415 V)			
	Rating	3P3d	4P3d	

Rating	3P3d	4P3d	
TM200D	EZS250F3200	EZS250F4200	
TM225D	EZS250F3225	EZS250F4225	
TM250D	EZS250F3250	EZS250F4250	

EZS160/250E/F

Accessories

Connection accesso	ories (Cu or Al)		
Rear connections			
1 million and a mi	2 short		LV429235
	2 long		LV429236
Bare cable connectors			
THE AND	Steel connectors $1 \times (1.5 \text{ to } 95 \text{ mm}^2); \le 160 \text{ A}$	Set of 3	LV429242
		Set of 4	LV429243
ates			
Terminal extensions			
a P D	Spreaders from 35 to 45 mm pitch ⁽¹⁾	Set of 3	LV431563
		Set of 4	LV431564
-			
Insulation accessories			
	1 short terminal shield for breaker	3 P	LV429515
		4 P	LV429516
0 bar			
	1 long terminal shield for breaker	3 P	LV429517
		4 P	LV429518
901-107 FDF			
	Interphase barriers for breaker	Set of 6	LV429329
	2 insulating screens for breaker (45 mm pitch)	3P	LV429330
F		4P	LV429331

(1) Supplied with 2 or 3 interphase barriers.

EZS160/250E/F

Accessories

Electrical auxiliaries		
Auxiliary contacts (chang	eover)	
lega .	OF or SD	29450
	OF or SD low level	29452

Voltage releases

Voltage l'eleabed				
		Voltage	MX	MN
	AC	110-130 V 50/60 Hz	LV429386	LV429406
		220-240 V 50/60 Hz and 208-277 V 60 Hz	LV429387	LV429407
	DC	24 V	LV429390	LV429410

Rotary handles		
Direct rotary handle		
	With black handle	LV429337
Extended rotary handle		
2 A	With black handle	LV429338



EZS400/630F/N

Circuit breaker

Commercial references EasyPact EZS400

With TM-D thermal-magnetic trip u



EasyPact EZS400F (36 kA at 3	380/415 V)	
Rating	3P3d	4P3d
TM315D	EZS400F3315	EZS400F4315
TM350D	EZS400F3350	EZS400F4350
TM400D	EZS400F3400	EZS400F4400
TM400D EasyPact EZS400N (50 kA at a	EZS400F3400 380/415 V) 3P3d	EZS400F4400
TM400D EasyPact EZS400N (50 kA at Rating TM315D	EZS400F3400 380/415 V) 3P3d EZS400N3315	EZS400F4400 4P3d EZS400N4315
TM400D EasyPact EZS400N (50 kA at Rating TM315D TM350D	EZS400F3400 380/415 V) 3P3d EZS400N3315 EZS400N3350	EZS400F4400 4P3d EZS400N4315 EZS400N4350

EasyPact EZS630

With TM-D thermal-magnetic trip uni



igne	tic trip unit			
EasyPact EZS630F (36 kA at 380/415 V)				
	Rating	3P3d	4P3d	
	TM500D	EZS630F3500	EZS630F4500	
	TM600D	EZS630F3600	EZS630F4600	
	EasyPact EZS630N (50 kA at 380/415 V)			
	Rating	3P3d	4P3d	
	TM500D	EZS630N3500	EZS630N4500	
	TM600D	EZS630N3600	EZS630N4600	

EZS400/630F/N

Accessories

Connection accesso	ories (Cu or Al)			
Rear connections				
	2 short	LV432475		
	2 long			LV432476
Cable connectors ⁽¹⁾				
	Aluminium connector 1x (35 tr	o 300 mm²)	Set of 3	LV432479
C			Set of 4	LV432480
Terminal extension (1)				
	Spreaders	70 mm	3P	LV432492
			4P	LV432493
The case of the cas				
Insulation accessories				
	Short terminal shield, 45 mm (1 piece)		3P	LV432591
A BOL			4P	LV432592
	Long terminal shield, 45 mm (1 piece)		3P	LV432593
S.F.T.			4P	LV432594
	Interphase barriers		Set of 6	LV432570

(1) supplied with 2 or 3 interphase barriers.

Electrical auxiliaries				
Auxiliary contacts (changeover)				
	OF or SD	29450		
	29452			

Voltage releases				
		Voltage	MX	MN
	AC	110-130 V 50/60 Hz	LV429386	LV429406
		220-240 V 50/60 Hz and 208-277 V 60 Hz	LV429387	LV429407
	DC	24 V	LV429390	LV429410

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

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