

About Schneider Electric

Schneider Electric is a global specialist in energy management and automation, committed to providing clients with safe, reliable, efficient and green energy and process management. With over 142,000 employees in more than 100 countries, our sales hit 27.2 billion Euros in FY 2019. From simple switches to complex operating systems, our technology, software and services help customers manage and optimize operations. We also facilitate industrial optimization, improve urban environment, and enrich people's lives through interconnected technologies. Schneider Electric is committed to ensuring Life Is ON.



> EasyPact EVS

Easy choice for majority performance







> EasyPact EVS Benefits for every customer



Panel builder/contractors

Single frame size from 800A to 4000A, with identical door cut-outs

- Suitable for connection terminal with a single pole pitch of 115mm
- > Terminal orientation can be converted from horizontal to vertical and vice versa
- > Direct mounting Door frames without drilling any holes
- > Front fitted accessories like under-voltage release shunt release & closing coil for complete range
- > Conversion of manual operated breaker in to electrical operated, with single bolt fixing



End User

Moulded case design ensures high endurance without maintenance

- > Intelligent Trip system range trip unit with thermal memory
- > Overload run alarm & individual LED indications enable fault identification
- > Icu=Ics=Icw(1s) ensures complete selectivity
- > Inbuilt safety shutter & interlocks
- > Contact signal "Ready to close" indicating compliance and effectiveness of all safety parameters
- > No derating below 40 °C and stable operation in humidity under 95%
- > All 4 pole breakers are with fully rated neutral and protected with adjustable settings at OFF 50%-100%

EasyPact EVS answers even to the most stringent application with most reliable distribution systems assuring continuity of service



Designer

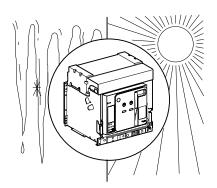
Conforms to IS/IEC60947-2 standards

- > Control module equipped with intelligent microprocessor, overload protection, short circuit protection and earth-fault protection and with thermal memory.
- > Full range: Icu=Ics=Icw(1s)
- > Typical opening release and closing release helps in simple interlocking
- > The contact "Ready to Close" ensures that all safety parameters comply with requirements and successful closing of the circuit breaker.
- > EasyPact EVS respects the environment throughout their life cycle

EasyPact EVS is designed to meet the needs of your customers with flexibility to achieve system efficiency during the design phase

Reliable Operation





Excellent environmental adaptability

The great environmental adaptability of EVS low voltage circuit breakers ensures the stable operation of power distribution system under severe environmental changes or harsh environmental conditions, such as cubicle-type substations commonly used in the construction industry, underground power distribution rooms without air conditioning, or space-constrained installation.

- In compliance with IEC68-2
- o Ambient temperature between -25°C and + 70°C
- Suitable for various kinds of extreme atmospheric environmental conditions
- Suitable for IEC60664-1 pollution degree 3
- o Suitable for general or harsh industrial environment
- Stable in humidity of 95% and below

Long-term stable operation

The EVS low voltage circuit breakers are designed for long-term operation. They are maintenance-free, which greatly reduces users' daily maintenance of the low-voltage power distribution system.

- Maintenance-free: integrated internal core components greatly reduce insulation and connection failures.
- EVS 'unique arc-type main contact avoids wear, further improving service life and operation stability.

Greater Dependability



Filtered breaking

The patented new design of the arc chutes includes stainless-steel filters. The chutes absorb the energy released during breaking, thus limiting the stresses exerted on the installation. They filter and cool the gases produced, reducing effects perceptible from the outside.

Electrical consistency

Each product complies with or enhances system performance at coordination level: breaking capacity, temperature rise, etc. The leading edge technologies ensure high performance levels in protection, inter-product Electro Magnetic Compatibilty (EMC) is guaranteed.



Filter-based breaking

The new arc chute

Mechanical consistency

Each product adopts dimensional standards simplifying and optimizing its use within the system. It shares the same accessories and auxiliaries and complies with global ergonomic choices (utilization mode, operating mode, setting and configuration devices, tools, etc.) making its installation and operation within the system a simpler process.

Easy Selection



One family, one frame size and one type

• H type: suitable for residential, commercial building and medium-sized industrial power distribution systems.

		08	10	12	16	20	25	32	40
Н	65kA	•	•	•	•	•	•	•	•

Icu=Ics=Icw(1s)



Fixed breaker with horizontal and vertical rear connection

Easy of installation

With optimized size, EVS ranges simplify the design of switchboards and standardize the installation of devices

- Power supply from the top or the bottom without reduction in performance
- No need for safe spacing
- Two types of connection are available
- o Horizontal or vertical rear connection
- Mixed connection

Flexibility

- Simply turn a horizontal rear connector 90° to make it a vertical connector.*
- *: For the 4000 A circuit breaker, connection not changeable between horizontal and vertical



Green Premium™

Endorsing eco-friendly products in the industry



Green Premium is the only label that allows you to effectively develop and promote an environmental policy whilst preserving your business efficiency. This ecolabel guarantees compliance with up-to-date environmental regulations, but it does more than this.

Over 75% of Schneider Electric manufactured products have been awarded the Green Premium ecolabel



Discover what we mean by green

Check your products!

Schneider Electric's Green Premium ecolabel is committed to offering transparency, by disclosing extensive and reliable information related to the environmental impact of its products:

RoHS

Schneider Electric products are subject to RoHS requirements at a worldwide level, even for the many products that are not required to comply with the terms of the regulation. Compliance certificates are available for products that fulfil the criteria of this European initiative, which aims to eliminate hazardous substances.

REACh

Schneider Electric applies the strict REACh regulation on its products at a worldwide level, and discloses extensive information concerning the presence of SVHC (Substances of Very High Concern) in all of these products.

PEP: Product Environmental Profile

Schneider Electric publishes complete set of environmental data, including carbon footprint and energy consumption data for each of the lifecycle phases on all of its products, in compliance with the ISO 14025 PEP ecopassport program. PEP is especially useful for monitoring, controlling, saving energy, and/or reducing carbon emissions.

EoLI: End of Life Instructions

Available at the click of a button, these instructions provide:

- Recyclability rates for Schneider Electric products.
- Guidance to mitigate personnel hazards during the dismantling of products and before recycling operations.
- Parts identification for recycling or for selective treatment, to mitigate environmental hazards/ incompatibility with standard recycling processes.

General contents

Functions and characteristics	A-1
Installation recommendations	B-1
Dimensions and connection	C-1
Electrical diagrams	D-1
Additional characteristics	E -1
Catalogue numbers and order form	F-1

Functions and characteristics



Functions and characteristics

General overview Detailed contents	A- :
Circuit breakers EVS08 to EVS40	A- 4
Identifying Trip system range	A -0
Overview of functions	A-
Trip system	A-
Trip system A	A-1
Trip system	A-1:
Accessories and test equipment	A-1
Connections	A-1:
Overview of solutions and accessories	A-1
Accessories and auxiliaries	A-1
Locking	A-1
On the device	A-1
On the chassis	A-1
Indication contacts	A-19
Remote operation	A-20
Remote ON / OFF	A-2
Remote tripping	A-2
Source-changeover systems	A-2:
Mechanical interlocking	A-2
Accessories	A-24
Installation recommendations	B-
Dimensions and connection	C-
Electrical diagrams	D-
Additional characteristics	E-
Catalogue numbers and order form	_ F-

General overview

Detailed contents

This overview describes all the functions offered by EasyPact EVS devices.

Circuit breakers

page A-4



- ☐ EasyPact EVS 800 to 4000 A
- Circuit breakers type H
- 3 or 4 poles
- Fixed or draw-out versions

Trip system

page A-8

- 2.0 basic protection
- 5.0 selective protection
- 6.0 selective + earth-fault protection
- Standard long-time rating plug:
- ☐ Current setting (A) 0.4 to 1 x In

Trip system A with current measurement

page A-10

- 2.0 basic protection
- 5.0 selective protection
- 6.0 selective + earth-fault protection
- Standard long-time rating plug:
- ☐ Current setting (A) 0.4 to 1 x In
- External power-supply module

Connections

page A-15



- □ Horizontal
- □ Vertical
- Optional accessories:
- □ Interphase barriers
- □ Safety shutters



Safety shutters



Interphase barriers



2 🚱

CPB100000



Trip system 5.0



Trip system 6.0

Locking

■ Pushbutton locking by padlockable transparent cover

- OFF-position locking by keylock
- Chassis locking in disconnected position by keylock
- Chassis locking in connected, disconnected and test positions
- Door interlock (inhibits door opening with breaker in 'connected' or 'test' position



Door interlock

page A-18

Chassis key lock

General overview

Detailed contents

CPB100003



Indication contacts

- Standard:
- □ ON/OFF indication (OF)
- ☐ "Fault" trip indication (SDE)
- Optional:
- □ Additional ON/OFF indication (OF)
- ☐ Ready-to-close contact (PF)
- □ Carriage switches for connected (CE) disconnected (CD) and test (CT) positions



Ready-toclose contact



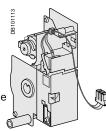
page A-20

OF contact

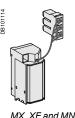
page A-21

Remote operation

- Remote ON/OFF:
- □ Gear motor
- $\hfill \square$ XF closing or MX opening voltage releases
- Remote tripping function:
- □ MN voltage release
- Standard
- Adjustable or non-adjustable delay



Gear motor



MX, XF and MN volage releases

Accessories

- Auxiliary terminal shield
- Operation counter
- Escutcheon (Door sealing frame)
- Transparent cover for escutcheon
- Escutcheon blanking plate



Escutcheon



page A-25

Transparent cover

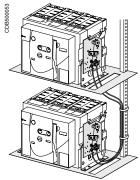


Mechanical operation counter

Source-changeover systems

- Mechanical interlocking using cables:
- ☐ Interlocking between two devices $\hfill\Box$ Interlocking between three devices

page A-24



Interlocking of two devices

Circuit breakers

EVS08 to EVS40



Circuit breaker.

Rated insulation voltage (V)					
Rated insulation voltage (V)	Common characte	eristics			
Impulse withstand voltage (kV)	Number of poles				3/4
Rated operational voltage (V AC 50/60 Hz) Ue 690		Ui			
Suitability for isolation IEC 60947-2 Yes	<u> </u>	<u> </u>			
Degree of pollution IEC 60664-1 3		(V AC 50/60 Hz	2)		
Circuit-breaker as per IEC 60947-2 Rated current In(A) at 40°C¹¹¹ Rating of 4th pole (A) Sensor ratings (A) Type of circuit breaker Ultimate breaking capacity Icu(kA rms) 220440V V AC 50/60 Hz 690 V Rated service breaking capacity Ics(kA rms) % Icu Selectivity category Rated short-time withstand current Icw(kA rms) 1s V AC 50/60 Hz 3s 3s Rated making capacity Icm(kA peak) 220440 V V AC 50/60 Hz 690 V 690 V Integrated instantaneous protection(DIN KA instantaneous ±10%) (ms) Breaking time (ms) between tripping order and arc extinction (ms) Maintenance/Connection/Installation Service life with maintenance C/O cyclesx1000 Without maintenance 440 V Electrical without maintenance 440 V 690 V 690 V Connection Draw-out 3P					
Rated current	Degree of pollution			IEC 60664-1	3
Rated current	Circuit brooker as per	IEC 60047 1	2		
Rating of 4th pole	•	120 00947-2	2	In(A)	at 40°C ⁽¹⁾
Sensor ratings (A)				` '	
Ultimate breaking capacity Icu(kA rms) 220440V 690 V					
Ultimate breaking capacity	Sensor ratings			(A)	
V AC 50/60 Hz Eated service breaking capacity Ics(kA rms) V Icu	Type of circuit breaker				
Rated service breaking capacity Ics(kA rms) % Icu	Ultimate breaking capacity	•		Icu(kA rms)	220440V
Selectivity category Rated short-time withstand current Icw(kA rms) 1s 3s N AC 50/60 Hz 3s Icm(kA peak) 220440 V V AC 50/60 Hz 690 V Integrated instantaneous protection(DIN KA instantaneous ±10%) Breaking time (ms) between tripping order and arc extinction (ms) (V AC 50/60 Hz				690 V
Rated short-time withstand current Icw(kA rms) 1s 3s 3s Rated making capacity Icm(kA peak) 220440 V V AC 50/60 Hz 690 V Integrated instantaneous protection(DIN KA instantaneous ±10%) Breaking time (ms) between tripping order and arc extinction (ms) (m	Rated service breaking cap	pacity		Ics(kA rms)	% Icu
V AC 50/60 Hz 3s 220440 V V AC 50/60 Hz 690 V 690 V	Selectivity category				
Rated making capacity Icm(kA peak) 220440 V 690 V	Rated short-time withstand	Current		Icw(kA rms)	1s
V AC 50/60 Hz	V AC 50/60 Hz				3s
Integrated instantaneous protection(DIN KA instantaneous ±10%) Breaking time (ms) between tripping order and arc extinction (ms) Closing time (ms) (ms) (ms) Maintenance/Connection/Installation	Rated making capacity			Icm(kA peak)	220440 V
Breaking time (ms) between tripping order and arc extinction (ms) Closing time (ms) (ms)	V AC 50/60 Hz				690 V
Closing time (ms)	Integrated instantaneous p	rotection(DIN	KA instantane	eous ±10%)	
Maintenance/Connection/Installation Service life C/O cyclesx1000 Mechanical with maintenance without maintenance without maintenance 440 V 690 V Connection Horizontal Vertical Vertical 3P 4P Dimensions H x W x D Fixed 3P 4P Fixed 3P 4P Weight (kg) Draw-out 3P/4P	Breaking time (ms) betwee	n tripping orde	er and arc exti	nction	(ms)
Mechanical C/O cyclesx1000 Mechanical with maintenance without maintenance without maintenance 440 V 690 V Connection Horizontal Vertical Dimensions H x W x D Fixed Draw-out 3P 4P 7 4P	Closing time (ms)				(ms)
Mechanical C/O cyclesx1000 Mechanical with maintenance without maintenance without maintenance 440 V 690 V Connection Horizontal Vertical Dimensions H x W x D Fixed Draw-out 3P 4P 7 4P	Maintenance/Con	nection/Ir	stallation	1	
Electrical without maintenance 440 V 690 V Connection Horizontal Vertical Dimensions H x W x D Draw-out 3P 4P Fixed 3P 4P Weight (kg) Draw-out 3P/4P	Service life				
Connection	C/O cyclesx1000		without main	ntenance	
Connection Horizontal Vertical 3P Dimensions H x W x D Draw-out 3P 4P 4P Fixed 3P 4P 4P Weight (kg) Draw-out 3P/4P		Electrical	without main	ntenance	440 V
Vertical Dimensions H x W x D Draw-out 3P 4P 4P Fixed 3P 4P Weight (kg) Draw-out 3P/4P					690 V
Dimensions $H \times W \times D$	Connection				
$\begin{tabular}{c cccc} & & & & \hline & & & \\ \hline 4P & & & & & \\ \hline Fixed & & & & & \\ \hline & & & & & & \\ \hline & & & & &$					
	Dimensions H x W x D		Draw-out		
4P Weight (kg) Draw-out 3P/4P					
Weight (kg) Draw-out 3P/4P			rixea		
	Weight (kg)		Draw-out		
Fixed 3P/4P	vveignt (kg)				
			incu		01 /41

EVS08	EVS10	EVS12	EVS16	EVS20	EVS25	EVS32	EVS40
800	1000	1250	1600	2000	2500	3200	4000
800	1000	1250	1600	2000	2500	3200	4000
800	1000	1250	1600	2000	2500	3200	4000
Н	Н	н	н	Н	Н	Н	Н
65	65	65	65	65	65	65	65
50	50	50	50	50	50	50	50
100%	100%	100%	100%	100%	100%	100%	100%
В	В	В	В	В	В	В	В
65	65	65	65	65	65	65	65
36	36	36	36	36	36	36	36
143	143	143	143	143	143	143	143
105	105	105	105	105	105	105	105
105	105	105	105	105	105	105	105
25	25	25	25	25	25	25	25
< 70	< 70	< 70	< 70	< 70	< 70	< 70	< 70
20	20	20	20	20	20	20	20
10	10	10	10	10	10	10	10
5	5	5	5	5	5	5	5
4	4	4	4	4	2.5	2.5	2.5
Yes	'						'
Yes							
439 x 441 x 395	5						
439 x 556 x 395	5						
352 x 422 x 297							
352 x 537 x 297							
70/85	70/85	70/85	70/85	70/85	90/120	90/120	90/120
40/50	40/50	40/50	40/50	40/50	60/80	60/80	60/80

Identifying Trip system

EasyPact EVS circuit breakers equipped with Trip system are designed to protect power circuit and connected loads.

Measurement of current helps users to maintain continuity of service and optimize installation.



Dependability

Integration of protection functions in an ASIC electronic component used in all trip units guarantees a high degree of reliability and immunity to conducted or radiated disturbances.

On Trip System range, measurement functions are managed by an independent microprocessor. Protection functions are independent of measurement functions, ensure system protection even at very low load currents.

Accessories

Certain functions require the addition of trip unit accessories, described on page A-14.

Trip unit name codes

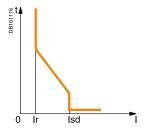
Type of protection

- 2.0 for basic protection
- 5.0 for selective protection
- 6.0 for selective + earth-fault protection

Type of measurement

- Trip System for basic
- Trip System A for "Current"

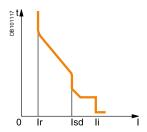
Trip System 2.0: basic protection



Protection:

long time + instantaneous

Trip System 5.0: selective protection

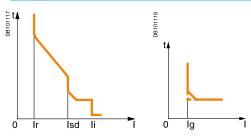


Protection:

long time

- + short time
- + instantaneous

Trip System 6.0: selective + earth-fault protection



Protection:

- long time + short time
- + instantaneous
- + earth fault

Identifying Trip system

Protection and measurement	ent functions		
Trip System		Trip System A	
■ Fault indications■ Settings in amperes and in secon	ds	■ I ₁ , I ₂ , I ₃ , I _N , I _{earth-fault} , and maxime □ Fault indications □ Settings in amperes and in se	ter for these measurements: conds
2.0	EST TO SQUARES OF THE PARTY OF		
5.0	20 1	5.0A	SVA CONDOCUENCY
6.0	20 17 17 19 19 19 19 19 19 19 19 19 19 19 19 19	6.0A	SAT POODS

Trip system

Trip System unit protect power circuits, under overload & short-circuit conditions. They are equipped with individual fault trip indication LEDs. Trip System 6.0 provides earth-fault protection.



- Long-time threshold and tripping delay.
- Overload alarm (LED) at 1,125 lr. Short-time pick-up and tripping delay.
- Instantaneous pick-up.
- Earth-fault pick-up and tripping delay.
- Earth-fault test button.
- Long-time rating plug screw.
- Test connector.
- Lamp test, reset and battery test.
- 10 Indication of tripping cause.
- (1) The thermal memory continuously accounts for the amount of heat in the cables, both before and after tripping, whatever the value of the current(presence of an overload or not). The thermal memory optimises the long-time protection function of the circuit breaker by taking into account the temperature rise in the cables . The thermal memory assumes a cable cooling time of approximately 20 minutes.
- (2) Refer to page D-5 for more details on ZSI.

Protection

Protection thresholds and delays are set using the adjustment dials.

Overload protection

True rms long-time protection.

Protects cables (phase and neutral) against overloads

Thermal memory (1): thermal image before and after tripping.

Short-time protection

- The short-time protection function protects the distribution system against impedant short-circuits
- The short-time tripping delay can be used to ensure discrimination with downstream circuit breaker
- The I²t ON and I²t OFF options enhance discrimination with a downstream protection devices
- Use of I²t curves with short-time protection:
- □ I²t OFF selected: the protection function implements a constant time curve
- □ I²t ON selected: the protection function implements an I²t inverse-time curve up to 10 lr. Above 10 lr, the time curve is constant

Earth-fault protection on Trip system 6.0

Residual earth fault protection.

Selection of I2t type (ON or OFF) for delay.

A ground fault in the protection conductors can provoke local temperature rise at the site of the fault or in the conductors. The purpose of the ground-fault protection function is to eliminate this type of fault.

Туре	Description
Residual	■ The function determines the zero-phase sequence current, i.e.
	the vectorial sum of the phase and neutral currents
	It detects faults downstream of the circuit breaker

Instantaneous protection

The Instantaneous-protection function protects the distribution system against solid short-circuits. Contrary to the short-time protection function, the tripping delay for instantaneous protection is not adjustable. The tripping order is sent to the circuit breaker as soon as current exceeds the set value, with a fixed time delay of

20 milliseconds.

Neutral protection

On three-pole circuit breakers, neutral protection is not possible.

On four-pole circuit breakers, neutral protection may be set using a three-position switch: neutral unprotected (4P 3d), neutral protection at 0.5 Ir (4P 3d + N/2), neutral

protection at Ir (4P 4d).

Zone selective interlocking (ZSI)

A ZSI⁽²⁾ terminal block may be used to interconnect a number of control units to provide total discrimination for short-time and earth-fault protection, without a delay before tripping.

Overload alarm

A yellow alarm LED goes on when the current exceeds the long-time trip threshold.

Fault indications

LEDs indicate the type of fault:

- Overload (long-time protection Ir)
- Short-circuit (short-time Isd or instantaneous li protection)
- Earth fault (Ig)
- Internal fault (Ap)

Battery power

The fault indicating LEDs are powered by an in-built battery. The fault indication LEDs remain on until the test/reset button is pressed.

A hand-held test kit may be connected to the test connector on the front to check circuit-breaker operation. For Trip System 6.0 trip unit, the operation of earth-fault protection can be checked by pressing the test button located above the test

Note: Trip System come with a transparent leadseal cover as standard



Trip system

Protection			Trip	Sys	tem	2.0_								-0
Long time					m 2.0							% t/		
Current setting (A)	Ir = In x		0.4	0.5	0.6	0.7	0.8	0.9	0.95	0.98	1	DB101126	⇔lr	
Tripping between 1.05 and 1.20												8		
Time setting		tr (s)	0.5	1	2	4	8	12	16	20	24	-	 	
Time delay (s)	Accuracy: 0 to -30 %		12.5	25	50	100	200	300	400	500	600	-	\ \ \ \ r	
22.23 (2)	Accuracy: 0 to -20 %		0.7 ⁽¹⁾	1	2	4	8	12	16	20	24		👯 "	
	Accuracy: 0 to -20 %		0.7 ⁽²⁾	0.69	1.38	2.7	5.5	8.3	11	13.8	16.6			
Thermal memory	Accuracy. 0 to -20 /6	7.2 X II			_	_	er trips		- 1 1	13.0	10.0	-	4	⊳lsd
(1) 0 to -40 % - (2) 0 to -60 %			201111	i i u i co		una un	.ci tripi	Jing				- 0		
Instantaneous												U		
Pick-up (A)	Isd = Ir x		1.5	2	2.5	3	4	5	6	8	10			
1 1 7	isu – ii x		1.5	2	2.5	3	4	5	O	0	10			
Accuracy: ±10 % Time delay			Mayr	acatta	ble time	a. 20 m	10					-		
rime delay					ime: 80		io							
			IVIAX	n cak l	iiie. 60	1115						-		
Protection			Trie	Suc	tem	5 0.2	6.0-							i i
							(O.U							
Long time			•	•	m 5.0				2.05	0.05		DB101127	d ⇒lr	
Current setting (A)	Ir = In x		0.4	0.5	0.6	0.7	8.0	0.9	0.95	0.98	1	DB1((l l ² t
Tripping between 1.05 and 1.20) x lr											-	tr 🔪	<u>√</u> ''
Time setting		tr (s)	0.5	1	2	4	8	12	16	20	24	-	X	T I't
Time delay (s)	Accuracy: 0 to -30 %		12.5	25	50	100	200	300	400	500	600			Isd
	Accuracy: 0 to -20 %		0.7 ⁽¹⁾	1	2	4	8	12	16	20	24		< <u>+</u>	tod
	Accuracy: 0 to -20 %	7.2 x Ir	0.7 ⁽²⁾	0.69	1.38	2.7	5.5	8.3	11	13.8	16.6	-	:	Lisu
Thermal memory			20 mi	nutes t	pefore	and aft	er tripp	oing				-		V ⇔li
(1) 0 to -40 % - (2) 0 to -60 %												. O		
Short time												Ū		
Pick-up (A)	Isd = Ir x		1.5	2	2.5	3	4	5	6	8	10			
Accuracy: ±10 %												_		
Time setting tsd (s)	Settings	I ² t Off	0	0.1	0.2	0.3	0.4							
		I ² t On	-	0.1	0.2	0.3	0.4					_		
Time delay (ms) at 10 x Ir	tsd (max resettable t	ime)	20	80	140	230	350							
(I ² t Off or I ² t On)	tsd (max break time)		80	140	200	320	500							
Instantaneous														
Pick-up (A)	li = ln x		2	3	4	6	8	10	12	15	off			
Accuracy: ±10 %												_		
Time delay			Maxr	esetta	ble time	e: 20 m	ıs							
			Max b	reak t	ime: 50	ms								
Earth fault			Trip	Syste	m 6.0	Α						1 1 28 1 4)	1 ² 4 .
Pick-up (A)	Ig = In x		Α	В	С	D	E	F	G	Н	J	DB101128	₄ L lg	\ / -110
Accuracy: ±10 %	In ≤ 400 A		0.3	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1		* '9	12,
	400 A < In ≤ 1000 A		0.2	0.3	0.4	0.5	0.6	0.7	8.0	0.9	1		tr	ito
	In ≥ 1250 A		500	640	720	800	880	960	1040	1120	1200			
Time setting tg (s)	Settings	I ² t Off	0	0.1	0.2	0.3	0.4					-	▼	
5 5 . ,	ū	I ² t On	-	0.1	0.2	0.3	0.4					oʻ		
Time delay (ma)	tg (max resettable tir	ne)	20	80	140	230	350					_		
Time delay (ms)	tg (max recettable til													

500

320

80

140

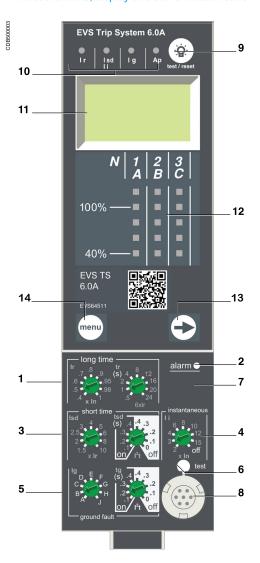
200

Note: All current-based protection functions require no auxiliary source. The test/reset button, clears the tripping indication and tests the battery.

at In or 1200 A (I^2t Off or I^2t On) tg (max break time)

Trip system A

Trip System A trip units include all functions offered by Trip System trip unit. In addition, they also offer measurements, display and current maximeters.



- Long-time threshold and tripping delay.
- Overload alarm (LED) at 1,125 Ir
- 3 Short-time pick-up and tripping delay.
- Instantaneous pick-up.
- Earth-fault pick-up and tripping delay.
- Earth-fault test button.
- Long-time rating plug screw.
- Test connector.
- Lamp test, reset and battery test.
- 10 Indication of tripping cause.
- 11 Digital display.
- 12 Three-phase bargraph and ammeter.
- 13 Navigation button to view menu contents.
- 14 Navigation button to change menu.
- (1) The thermal memory continuously accounts for the amount of heat in the cables, both before and after tripping, whatever the value of the current(presence of an overload or not). The thermal memory optimises the long-time protection function of the circuit breaker by taking into account the temperature rise in the cables .The thermal memory assumes a cable cooling time of approximately 20 minutes.
- (2) Refer to page D-5 for more details on ZSI.

Note: Trip System A come with a transparent leadseal cover as

"Ammeter" measurements

Trip System A measure the true (rms) value of currents.

They provide continuous current measurements from 0.2 to 1.2 In and are accurate to within 1.5 % (including the sensors).

A digital LCD screen continuously displays the most heavily loaded phase (Imax) or displays the I_1 , I_2 , I_3 , I_N , I_g , stored-current (maximeter) and setting values by successively pressing the navigation button.

The optional external power supply makes it possible to display currents < 20 % In. Below 0.1 In, measurements are not significant. Between 0.1 and 0.2 In, accuracy changes linearly from 4 % to 1.5 %.

Protection

Protection thresholds and delays are set using the adjustment dials.

Overload protection

True rms long-time protection.

Protects cables (phase and neutral) against overloads

Thermal memory thermal image before and after tripping.

Short-time protection

- The short-time protection function protects the distribution system against impedant short-circuits
- The short-time tripping delay can be used to ensure discrimination with downstream circuit breaker
- The I²t ON and I²t OFF options enhance discrimination with a downstream protection
- Use of I²t curves with short-time protection:
- ☐ I²t OFF selected: the protection function implements a constant time curve
- □ I²t ON selected: the protection function implements an I²t inverse-time curve up to 10 lr. Above 10 Ir, the time curve is constant

Earth-fault protection on Trip System A trip system

Residual earth fault protection.

Selection of I2t type (ON or OFF) for delay.

A ground fault in the protection conductors can provoke local temperature rise at the site of the fault or in the conductors. The purpose of the ground-fault protection function is to eliminate this type of fault.

•	•
Туре	Description
Residual	The function determines the zero-phase sequence current, i.e. the vectorial sum of the phase and neutral currents
	It detects faults downstream of the circuit breaker

Instantaneous protection

The Instantaneous-protection function protects the distribution system against solid shortcircuits. Contrary to the short-time protection function, the tripping delay for instantaneous protection is not adjustable. The tripping order is sent to the circuit breaker as soon as current exceeds the set value, with a fixed time delay of 20 milliseconds.

Neutral protection

On three-pole circuit breakers, neutral protection is not possible.

On four-pole circuit breakers, neutral protection may be set using a three-position switch: neutral unprotected (4P 3d), neutral protection at 0.5 Ir (4P 3d + N/2), neutral protection at Ir (4P 4d).

Zone selective interlocking (ZSI)

A ZSI⁽²⁾ terminal block may be used to interconnect a number of control units to provide total discrimination for short-time and earth-fault protection, without a delay before tripping.

A yellow alarm LED goes on when the current exceeds the long-time trip threshold.

Fault indications

LEDs indicate the type of fault:

- Overload (long-time protection Ir)
- Short-circuit (short-time Isd or instantaneous li protection)
- Earth fault (Ig)
- Internal fault (Ap)

Battery power

The fault indicating LEDs are powered by an in-built battery. The fault indication LEDs remain on until the test/reset button is pressed.

A hand-held test kit may be connected to the test connector on the front to check circuitbreaker operation. For Trip System 6.0A trip unit, the operation of earth-fault protection can be checked by pressing the test button located above the test connector.

Trip system A

														بالد
Protection			Trip	Sys	tem	5.0A	&6. 0	Α						W.
Long time			Trip	Syste	m 5.0	A&6.0)A					⊵ t 	d lr	
Current setting (A)	Ir = In x		0.4	0.5	0.6	0.7	8.0	0.9	0.95	0.98	1	DB101127	T "	. 2
Tripping between 1.05 and 1.20	xlr											<u> </u>	tr	_Ift on
Time setting		tr (s)	0.5	1	2	4	8	12	16	20	24	-	Yr"	1 2
Time delay (s)	Accuracy: 0 to -30 %	1.5 x lr	12.5	25	50	100	200	300	400	500	600		\	∟ I ^e t off
	Accuracy: 0 to -20 %	6 x Ir	$0.7^{(1)}$	1	2	4	8	12	16	20	24		\overrightarrow{J}_{1}	sd
	Accuracy: 0 to -20 %	7.2 x lr	0.7 ⁽²⁾	0.69	1.38	2.7	5.5	8.3	11	13.8	16.6			<u></u> tsd
Thermal memory			20 mi	nutes l	oefore a	and aft	er tripp	ing						₩ ii
(1) 0 to -40 % - (2) 0 to -60 %												L		<u> </u>
Short time												0		
Pick-up (A)	Isd = Ir x		1.5	2	2.5	3	4	5	6	8	10			
Accuracy: ±10 %														
Time setting tsd (s)	Settings	I ² t Off	0	0.1	0.2	0.3	0.4					-		
		I ² t On	-	0.1	0.2	0.3	0.4							
Time delay (ms) at 10 x Ir	tsd (max resettable t	ime)	20	80	140	230	350					-		
(I ² t Off or I ² t On)	tsd (max break time)		80	140	200	320	500							
Instantaneous														
Pick-up (A)	li = ln x		2	3	4	6	8	10	12	15	off			
Accuracy: ±10 %														
Time delay			Max r	esetta	ble time	e: 20 m	s					-		
			Max b	oreak t	ime: 50	ms								
Earth fault			Trip	Syste	m 6.0	Α						DB101128		1 12,
Pick-up (A)	lg = ln x		Α	В	С	D	Е	F	G	Н	J	DB10	. L lg	Let on
Accuracy: ±10 %	In ≤ 400 A		0.3	0.3	0.4	0.5	0.6	0.7	8.0	0.9	1	-	* '9	l ² t off
	400 A < In ≤ 1000 A		0.2	0.3	0.4	0.5	0.6	0.7	8.0	0.9	1		tg	∟ I t oπ
	In ≥ 1250 A		500	640	720	800	880	960	1040	1120	1200		-	
Time setting tg (s)	Settings	I ² t Off	0	0.1	0.2	0.3	0.4					` L	<u> </u>	
		I ² t On	-	0.1	0.2	0.3	0.4					0		
Time delay (ms)	tg (max resettable tir	ne)	20	80	140	230	350					_		
at In or 1200 A (I ² t Off or I ² t On)	tg (max break time)		80	140	200	320	500							
Ammeter			Trip	Sys	tem	5.0A	&6. 0	Α						menu
Type of measurements			Rang					uracy						
Instantaneous currents	I ₁ , I ₂ , I ₃ , In		0.2 x	In to 1.:	2 x In		± 1.5	%						
	Ig (6.0A)		0.2 x	In to In			± 10 9	%						
	I ₁ , I ₂ , I ₃ , In			In to 1.:			± 1.5					-		

Note: All current-based protection functions require no auxiliary source.

The test / reset button resets maximeters, clears the tripping indication and tests the battery.

Trip system

Accessories and test equipment



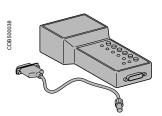
External sensor (CT)



External 24 V DC power supply module.



Lead-seal cover.



Hand-held test kit

External sensors

External sensor for earth-fault protection

The sensors, used with the 3P circuit breakers, are installed on the neutral

■ Residual type earth-fault protection (with 6.0 trip units)

The rating of the sensor (CT) must be compatible with the rating of the circuit breaker:

- EVS08 to EVS20: TC 400/2000
- EVS25 to EVS40: TC 1000/4000

External 24 V DC power-supply module

The external power-supply module makes it possible to use the display (Trip systems A) even if the circuit breaker is open or not supplied (for the exact conditions of use, see the "electrical diagrams" part of this catalogue).

Characteristics

- Power supply:
- □ 200/240V AC
- □ 24/30V DC
- Dielectric withstand: 3.5 kV rms between input/output, for 1 minute
- Conducted emissions power line: class B per EN 61000-6-3.

Spare parts

Lead-seal covers

A lead-seal cover controls access to the adjustment dials.

When the cover is closed:

- It is impossible to modify settings using the keypad unless the settings lockout pin on the cover is removed
- The test connector remains accessible
- The test button for the earth-fault protection function remains accessible

Characteristics

■ Transparent cover for all trip units

Spare battery

A battery supplies power to the LEDs identifying the tripping causes. The healthiness of the battery to be checked periodically. A test button on the front of

unit is used to check the battery condition. The battery may be replaced on site when discharged.

Test equipment

Hand-held test kit

The hand-held mini test kit may be used to:

- Check operation of the control unit and the tripping and pole-opening system by sending a signal simulating a short-circuit
- Power source: standard LR6-AA battery

Functions and characteristics

Connections

Overview of solutions and accessories

Available connection:

Rear connections: horizontal, vertical and mixed The solutions presented are similar in principle for all EasyPact EVS fixed and draw-out devices.

Rear connection Horizontal







Mixed



Simply turn a horizontal rear connector 90° to make it a vertical connector.

Connections

Overview of solutions and accessories



Interphase barriers EIP

These barriers are flexible insulated partitions used to reinforce isolation of connection points in installations with busbars, whether insulated or not. For EasyPact EVS devices, they are installed vertically between rear connection terminals. They are not compatible with spreaders.



Safety shutters VO

Mounted on the chassis, the safety shutters automatically block access to the disconnecting contact cluster when the device is in the disconnected or test positions

(degree of protection IP 20) When the device is removed from its chassis, no live parts are accessible.

The shutter-locking system is made up of a moving block (optional device) that can be padlocked (padlock not supplied). The block:

- Prevents connection of the device
- Locks the shutters in the closed position

For EasyPact EVS08 to EVS40

A support at the bottom of the chassis is used to store the blocks when they are not used:

■ 2 blocks for EVS08 to EVS40

Connections Accessories and auxiliaries

Type of accessory	EasyPact EVS08 to EVS4	10
	Fixed breaker	Draw-out breaker
	Rear connection	Rear connection
Interphase barriers	Optional	Optional
Safety shutters		
·		Standard
Cafaty abuttara		Standard
Safety shutters locking blocks		Elévido
		Optional
Door interlock		Optional
Pushbutton	99	9 20
locking device	E46060	E46666
	Optional	Optional
OFF position locking	600008BC	COBBOOMS
"Diagram and all"	Optional	Optional
"Disconnected" position locking		DB117488
		Optional
ON/OFF indication contacts(OF)	Standard	Standard
Additional ON/OFF		
indication contacts(OF)	Optional	Optional
"Fault trip" indication		
contact(SDE)	Standard	Standard

Accessories and auxiliaries

Type of accessory	EasyPact EVS08 to EVS40								
	Fixed breaker	Draw-out breaker							
	Rear connection	Rear connection							
"Connected, disconnected, test position" indication contact(CE,CD,CT)		Optional							
"Ready to close" contact(PF)	E46438	E46438							
	Optional	Optional							
Escutcheon(CDP)	Chandard	Standard							
Machanical aparation	Standard	Standard							
Mechanical operation counter(CDM)	Optional	Optional							
Escutcheon blanking plate	Optional	Optional							
Auxiliary	- C parollar								
terminal shield(CB)		Optional							
Transparent		_							
cover (IP54)		Optional							

Locking On the device

- Reset button for mechanical trip indication.
- OFF pushbutton
- OFF position lock.
- Door interlock. ON pushbutton.
- Spring charge indication.
- Pushbutton locking. Contact position indication.
- Operation counter.



Access to pushbuttons protected by transparent cover.



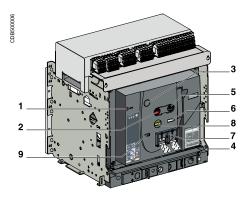
Pushbutton locking using a padlock.



OFF position locking using a keylock.



Door interlock.



Pushbutton locking VBP

The transparent cover blocks access to the pushbuttons used to open and close the device.

It is possible to independently lock the opening button and the closing button. The locking device is often combined with a remote operating mechanism. The pushbuttons may be locked using either:

- Three padlocks (not supplied)
- Lead seal
- Two screws

Device locking in the OFF position by keylocks VSPO

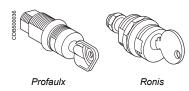
The circuit breaker is locked in the OFF position by physically maintaining the opening pushbutton pressed down:

■ Using keylocks (one or two keylocks, supplied)

Keys may be removed only when locking is effective (Profalux or Ronis type locks). The keylocks are available in any of the following configurations:

- One keylock
- One keylock mounted on the device + one identical keylock supplied separately for interlocking with another device

A locking kit (without locks) is available for installation of one keylock (Ronis, Profalux).



Door interlock catch VPEC

Mounted on the right or left-hand side of the chassis, this device inhibits opening

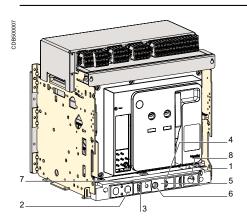
the cubicle door when the circuit breaker is in "connected" or "test" position. It the breaker is put in the "connected" position with the door open, the door may be

without having to disconnect the circuit breaker.

Automatic spring discharge before breaker removal DAE

This option discharges the springs before the breaker is removed from the chassis.

LockingOn the chassis



- 1 Door interlock.
- Keylock locking.
- Padlock locking.
- 4 Position indicator.
- 5 Chassis front plate (accessible with cubicle door closed).
- 6 Racking-handle entry.
- 7 Release button.
- 8 Racking-handle storage.



"Disconnected" position locking by padlock.



"Disconnected" position locking by keylock.

"Connected", "disconnected" and "test" position racking interlock

The "connected", "disconnected" and "test" positions are shown by an indicator and

are mechanically indexed. The exact position is obtained when the racking handle blocks. A release button is used to free it.

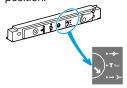
"Disconnected" position locking by padlocks or keylocks VSPD Mounted on the chassis and accessible with the door closed, these devices lock the circuit breaker in the "disconnected" position in two manners:

- Using padlocks (standard), up to three padlocks (not supplied)
- Using keylocks (optional), one or two different keylocks are available Profalux and Ronis keylocks are available in different options:
- One keylock
- Two identical key locks one keylock mounted on the device + one identical keylock supplied separately for interlocking with another device

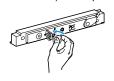
A locking kit (without locks) is available for installation of one or two keylocks (Ronis, Profalux).

Padlock

Circuit breaker in "disconnected" position.

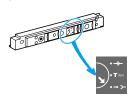


Insert the shackle (max. diameter 5 to 8 mm) of the padlock(s).

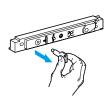


Keylock

Circuit breaker in "disconnected" position.



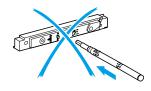
Remove the key(s)



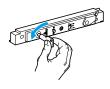
Pull out the tab.



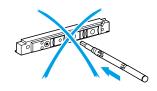
The crank connot be inserted.



Turn the key(s).



The crank cannot be inserted.



Indication contacts

Indication contacts are available:

■ in the standard version for relay applications



ON/OFF indication contacts (OF) (rotary type).



"Fault-trip" indication contact (SDE).



CE, CD and CT "connected/ disconnected/test" position carriage switches.

ON/OFF indication contacts OF

Indication contacts indicate the ON or OFF position of the circuit breaker:

■ Rotary type changeover contacts directly driven by the mechanism for EasyPact EVS. These contacts trip when the minimum isolation distance between the main circuit-breaker contacts is reached

OF				EVS
Supplied as standard				1 (4 C/O)
Optional contact				1 (4 C/O)
Breaking capacity (A)	Standard			Minimum load: 100 mA/24 V
p.f.: 0.3	•	V AC	240/380	10/6 (1)
AC12/DC12			480	10/6 ⁽¹⁾
			690	6
		V DC	24/48	10/6 (1)
			125	10/6 ⁽¹⁾
			250	3

(1) Standard contacts: 10 A; optional contacts: 6 A.

"Fault-trip" indication contacts SDE

Circuit-breaker tripping due to a fault is signalled by:

- A red mechanical fault indicator (reset)
- One changeover contact SDE

Following tripping, the mechanical indicator must be reset before the circuit breaker

may be closed. One SDE is supplied as standard.

SDE				EVS
Supplied as standard				1
Breaking capacity (A)	Standard			Minimum load: 100 mA/24 V
p.f.: 0.3		V AC	240/380	5
AC12/DC12			480	5
			690	3
		V DC	24/48	3
			125	0.3
			250	0.15

"Connected", "disconnected" and "test" position carriage switches CE, CD & CT

Three series of optional auxiliary contacts are available for the chassis:

- Changeover contacts to indicate the "connected" position CE
- Changeover contacts to indicate the "disconnected" position CD. This position is indicated when the required clearance for isolation of the power and auxiliary circuits is reached
- Changeover contacts to indicate the "test" position CT. In this position, the power circuits are disconnected and the auxiliary circuits are connected

				EVS			
Contacts				CE/CI	D/CT		
Maximum number	Standard			3	3	3	
Breaking capacity (A)	Standard			Minim	um load: 1	00 mA/24 V	/
p.f.: 0.3		V AC	240	8			
AC12/DC12			380	8			
			480	8			
			690	6			
		V DC	24/48	2.5			
			125	8.0			
			250	0.3			

Remote operation Remote ON / OFF

A point-to-point solution for remote operation of EasyPact EVS



The remote ON / OFF function is used to remotely open and close the circuit breaker

It is made up of:

- An electric motor MCH equipped with a "springs charged" limit switch contact CH
- Two voltage releases:
- □ A closing release XF
- ☐ An opening release MX

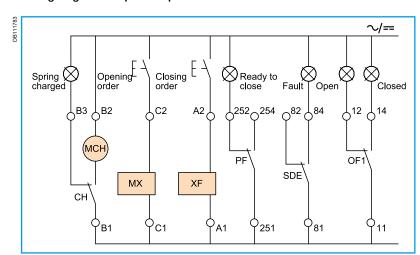
Optionally, other function may be added:

■ A "ready to close" contact PF

A remote-operation function is generally combined with:

- Device ON / OFF indication OF
- "Fault-trip" indication SDE

Wiring diagram of a point-to-point remote ON / OFF function



Note: An opening order always takes priority over a closing order.

If opening and closing orders occur simultaneously, the mechanism discharges without any movement of the main contacts. The circuit breaker remains in the open position

In the event of maintained opening and closing orders, the standard mechanism provides an anti-pumping function by

blocking the main contacts in open position.

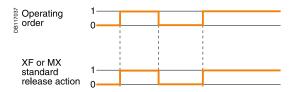
Anti-pumping function. After fault tripping or intentional opening using the manual or electrical controls, the closing order must first be discontinued, then reactivated to close the

Remote operation

Remote ON / OFF



Electric motor MCH for EasyPact EVS.









XF voltage release.



"Ready to close" contacts PF.

Electric motor MCH

The electric motor automatically charges and recharges the spring mechanism when

the circuit breaker is closed. Instantaneous reclosing of the breaker is thus possible

following opening. The spring-mechanism charging handle is used only as a backup

if auxiliary power is absent.

The electric motor MCH is equipped as standard with a limit switch contact CH that

signals the "charged" position of the mechanism (springs charged).

Characteristi	cs	
Power supply	V AC 50/60 Hz	200/240 - 380/415
	V DC	24/30 - 100/125 - 200/250
Operating thres	hold	0.85 to 1.1 Un
Consumption (V	A or W)	180
Motor overcurre	nt	2 to 3 In for 0.1 s
Charging time		Maximum 4 s
Operating frequ	ency	Maximum 3 cycles per minute
CH contact		10 A at 240 V

Voltage releases XF and MX

Their supply can be maintained or automatically disconnected.

Closing release XF

The XF release remotely closes the circuit breaker if the spring mechanism is charged.

Opening release MX

The MX release instantaneously opens the circuit breaker when energised. It locks the circuit breaker in OFF position if the order is maintained.

		•	
Characterist	ics	XF	MX
Power supply	V AC 50/60 Hz	200/250 - 380/480	
	V DC	24/30 - 100/130	
Operating thres	hold	0.85 to 1.1 Un	0.7 to 1.1 Un
Consumption (V	/A or W)	Hold: 4.5	Hold: 4.5
		Pick-up: 200 (200 ms)	Pick-up: 200 (200 ms)
	response time at	70 ms ±10	50 ms ±10
Un			

"Ready to close" contact PF

The "ready to close" position of the circuit breaker is indicated by a mechanical indicator and a PF changeover contact. This signal indicates that all the following are valid:

- The circuit breaker is in the OFF position
- The spring mechanism is charged
- A maintained opening order is not present:
- □ MX energised
- □ Fault trip
- $\hfill\square$ Remote tripping MN
- □ Device not completely racked in
- □ Device locked in OFF position
- □ Device interlocked with a second device

Characteristics				
Maximum number				1
Breaking capacity (A)	Standard			Minimum load: 100 mA/24 V
p.f.: 0.3		V AC	240/380	5
AC12/DC12			480	5
			690	3
		V DC	24/48	3
			125	0.3
			250	0.15

Functions and characteristics

Remote operation

Remote tripping



MN voltage release.



MN delay unit.

Instantaneous voltage releases MN

The MN release instantaneously opens the circuit breaker when its supply voltage drops to a value between 35 % and 70 % of its rated voltage. If there is no supply

the release, it is impossible to close the circuit breaker, either manually or electrically.

Any attempt to close the circuit breaker has no effect on the main contacts. Circuit breaker closing is enabled again when the supply voltage of the release returns to 85% of its rated value.

Characteristics				
Power supply	V AC 50/60 Hz	200/250 - 380/480		
	V DC	24/30 - 100/130		
Operating threshold	Opening	0.35 to 0.7 Un		
	Closing	0.85 Un		
Consumption (VA or V	N)	Pick-up: 200 (200 ms)	Hold: 4.5	
MN consumption		Pick-up: 200 (200 ms)	Hold: 4.5	
with delay unit (VA or	W)			
Circuit-breaker response time at Un		90 ms ±5		

MN delay units

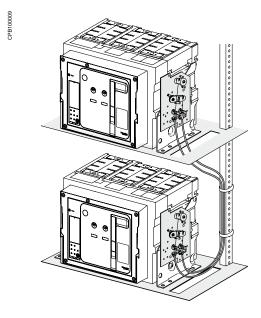
To eliminate circuit-breaker nuisance tripping during short voltage dips, operation

the MN release can be delayed. This function is achieved by adding an external delay unit in the MN voltage-release circuit. Two versions are available, adjustable and non-adjustable.

Characteristics		
Power supply	Non-adjustable	100/130 - 200/250
V AC 50-60 Hz /DC	Adjustable	100/130 - 200/250 - 380/480
Operating threshold	Opening	0.35 to 0.7 Un
	Closing	0.85 Un
Delay unit consumption	Pick-up: 200 (200) ms) Hold: 4.5
Circuit-breaker response time at Un	Non-adjustable	0.25 s
	Adjustable	0.5 s - 0.9 s - 1.5 s - 3 s

Source-changeover systems

Mechanical interlocking



Interlocking of two EasyPact circuit breakers using cable.

Interlocking of two EasyPact EVS or up to three EasyPact EVS devices using cables

For cable interlocking, $\bar{\text{th}}$ e circuit breakers may be mounted one above the other or

side-by-side. The interlocked devices may be fixed or draw-out, three-pole or four-pole, and have different ratings.

Interlocking between two devices

This function requires:

- An adaptation fixture on the right side of each device
- A set of cables with no-slip adjustments
- The use of a mechanical operation counter CDM is compulsory

The maximum distance between the fixing planes (vertical or horizontal) is 2000 mm.

Interlocking between three devices

This function requires:

- A specific adaptation fixture for each type of interlocking, installed on the right side of each device
- Two or three sets of cables with no-slip adjustments
- The use of a mechanical operation counter CDM is compulsory

The maximum distance between the fixing planes (vertical or horizontal) is 1000 mm

Installation

The adaptation fixtures, sets of cables and circuit breakers are supplied separately, ready for assembly by the customer.

Installation conditions for cable interlocking systems:

- Cable length: 2.5 m
- Radius of curvature: 100 mm
- Maximum number of curves: 3

Possible combinations of "Normal" and "Replacement" source circuit breakers			
"Normal N"	"Replacement" R		
EVS08 to EVS40	EVS08 to EVS40		
Ratings 8004000A			

Possible combinations of three device	
EVS08 to EVS40	EVS08 to EVS40
Ratings 8004000A	

All combinations of two or three EasyPact EVS devices are possible, whatever the rating of the devices.

Accessories



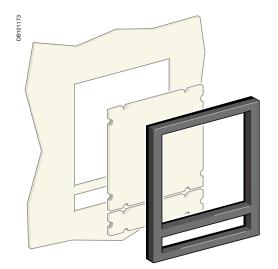
Auxiliary terminal shield CB

Optional equipment mounted on the chassis, the shield prevents access to the terminal block of the electrical auxiliaries.



Operation counter CDM

The operation counter sums the number of operating cycles and is visible on the front panel. It is compatible with manual and electrical control functions. This option is compulsory for all the source-changeover systems.



Escutcheon CDP

Standard equipment mounted on the door of the cubicle, the escutcheon

the degree of protection to IP 40 (circuit breaker installed free standing: IP30). It is available in fixed and draw-out versions.

Blanking plate for escutcheon OP

Used with the escutcheon, this option closes off the door cut-out of a cubicle not

equipped with a device. It may be used with the escutcheon for both fixed and draw-out devices.

Escutcheon CDP with blanking plate.



Transparent cover CP for escutcheon.

Transparent cover for escutcheon CP

Optional equipment mounted on the escutcheon, the cover is hinged and secured

a screw. It increases the degree of protection to IP54, IK10. It adapts to draw-out devices.

Installation recommendations

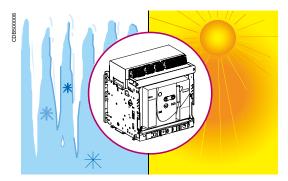


Installation recommendations

Functions and characteristics	A-	
Operating conditions	B-2	
Installation in switchboard	B-3	
Door interlock catch	B-5	
Control wiring	B-6	
Power connection	B-7	
Recommended busbars drilling	B-9	
Busbar sizing	B-10	
Temperature derating Power dissipation	B-12	
Dimensions and connection	C-1	
Electrical diagrams	D-1	
Additional characteristics	E-1	
Catalogue numbers and order form	F-1	

Operating conditions

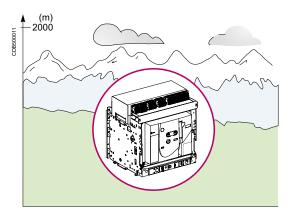
EasyPact EVS circuit breakers have been tested for operation in industrial atmospheres. It is recommended that the equipment be cooled or heated to the proper operating temperature and kept free of excessive vibration and dust.



Ambient temperature

EasyPact EVS devices can operate under the following temperature conditions:

- The electrical and mechanical characteristics are stipulated for an ambient temperature of -5°C to +60°C
- Circuit-breaker closing is guaranteed down to -35°C Storage conditions are as follows:
- -40 to +85°C for a EasyPact EVS device without its control unit
- -25°C to +85°C for the control unit

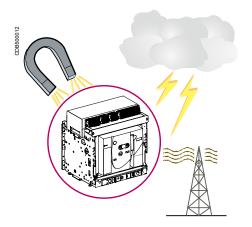


Altitude

At altitudes higher than 2000 metres, the modifications in the ambient air (electrical resistance, cooling capacity) lower the following characteristics as follows:

Altitude (m)	2000	3000
Impulse withstand voltage uimp (kV)	12	11
Rated insulation voltage (Ui)	1000	900
Maximum rated operationnal	690	590
voltage 50/60 Hz Ue (V)	1000	890
Rated current 40°C	1 x ln	0.99 x In

Intermediate values may be obtained by interpolation.



Electromagnetic disturbances

EasyPact EVS devices are protected against:

- Overvoltages caused by devices that generate electromagnetic disturbances
- Overvoltages caused by atmospheric disturbances or by a distribution-system outage (e.g. failure of a lighting system)
- Devices emitting radio waves (radios, walkie-talkies, radar, etc.)
- Electrostatic discharges produced by users

EasyPact EVS devices have successfully passed the electromagnetic-compatibility tests (EMC) defined by the following international standards:

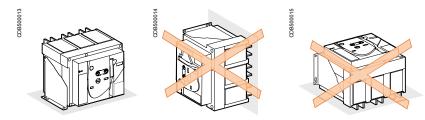
■ IEC 60947-2, appendix F

The above tests guarantee that:

- No nuisance tripping occurs
- Tripping times are respected

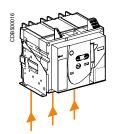
Installation in switchboard

Possible positions



Power supply

EasyPact EVS devices can be supplied either from the top or from the bottom without reduction in performance, in order to facilitate connection when installed

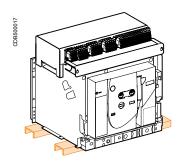


Mounting the circuit-breaker

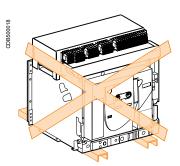
It is important to distribute the weight of the device uniformily over a rigid mounting surface such as rails or a base plate.

This mounting plane should be perfectly flat (tolerance on support flatness: 2 mm). This eliminates any risk of deformation which could interfere with correct operation of the circuit breaker.

EasyPact devices can also be mounted on a vertical plane using the special brackets.





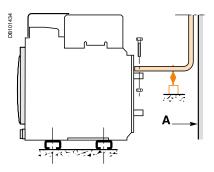


Installation in switchboard

Partitions

Sufficient openings must be provided in partitions to ensure good air circulation around the circuit breaker; Any partition between upstream and downstream connections of the device must be made of nonmagnetic material.

For high currents, of 2500 A and upwards, the metal supports or barriers in the immediate vicinity of a conductor must be made of non-magnetic material A. Metal barriers through which a conductor passes must not form a magnetic loop.

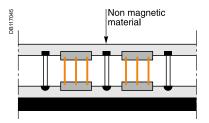


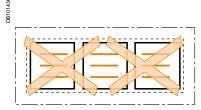
A: Non magnetic material.



Busbars

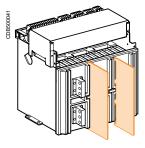
The mechanical connection must be exclude the possibility of formation of a magnetic loop around a conductor.

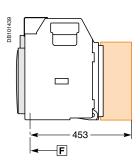




Interphase barrier

If the insulation distance between phases is not sufficient (≤ 14 mm), it is advised to install phase barriers (taking into account the safety clearances).





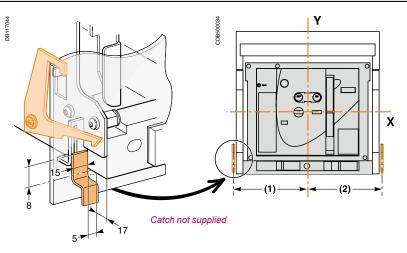
Door interlock catch

Door interlock VPEC

Mounted on the right or left-hand side of the chassis, this device inhibits opening of the cubicle door when the circuit breaker is in "connected" or "test" position. It the breaker is put in the "connected" position with the door open, the door may be closed without having to disconnect the circuit breaker.

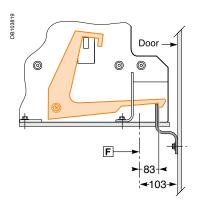
Dimensions (mm)

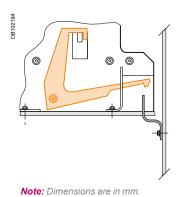
Туре	(1)	(2)
EVS08-40 (3P)	215	215
EVS08-40 (4P)	330	215



Breaker in "connected" or "test" position Door cannot be opened

Breaker in "disconnected" position Door can be opened





Control wiring

Wiring of voltage releases

During pick-up, the power consumed is approximately 150 to 200 VA. For low control voltages (12, 24, 48 V), maximum cable lengths are imposed by the voltage and the cross-sectional area of cables.

Recommended maximum cable lengths (meter).

		12 V		24 V		48 V	
		2,5 mm ²	1,5 mm ²	2,5 mm ²	1,5 mm ²	2,5 mm ²	1,5 mm ²
MN	U source 100 %	_	-	58	35	280	165
	U source 85 %	-	-	16	10	75	45
MX-XF	U source 100 %	21	12	115	70	550	330
	U source 85 %	10	6	75	44	350	210

Note: The indicated length is that of each of the two wires.

24 V DC power-supply module

External 24 V DC power-supply module (F1-, F2+)

- Do not connect the positive terminal (F2+) to earth
- The negative terminal (F1-) can be connected to earth
- A number of trip units can be connected to the same 24 V DC power supply (the consumption of a trip unit is approximately 100 mA)
- Do not connect any devices other than a trip unit
- The maximum length for each conductor is ten metres. For greater distances, it is advised to twist the supply wires together
- The 24 V DC supply wires must cross the power cables perpendicularly. If this is difficult, it is advised to twist the supply wires together
- The technical characteristics of the external 24 V DC power-supply module are indicated on page A-14.

Note: Wiring of ZSI: it is recommended to use twisted shielded cable. The shield must be connected to earth at both ends.

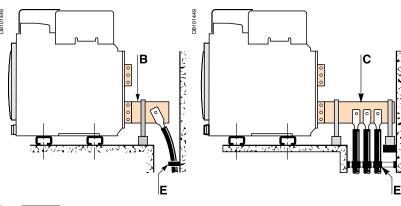
Power connection

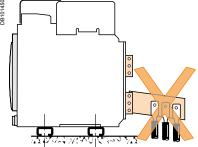
Cables connections

If cables are used for the power connections, make sure that they do not apply excessive mechanical forces to the circuit breaker terminals.

For this, make the connections as follows:

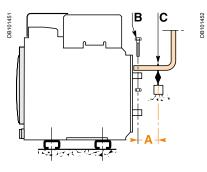
- Extend the circuit breaker terminals using short bars designed and installed according to the recommendations for bar-type power connections:
- □ For a single cable, use solution **B** opposite
- ☐ For multiple cables, use solution **C** opposite
- In all cases, follow the general rules for connections
- □ Position the cable lugs before inserting the bolts
- $\hfill\Box$ The cables should firmly secured to the framework E

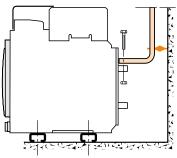


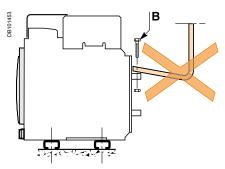


Busbars connectionsThe busbars should be suitably adjusted to ensure that the connection points are positioned on the terminals before the bolts are inserted **B**

The connections are held by the support which is solidly fixed to the framework of the switchboard, such that the circuit breaker terminals do not have to support its weight C. (This support should be placed close to the terminals).







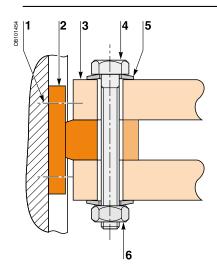
Electrodynamic stresses

The first busbar support or spacer shall be situated within a maximum distance from the connection point of the breaker (see table below). This distance must be respected so that the connection can withstand the electrodynamic stresses between phases in the event of a short circuit.

Maximum distance A between busbar to circuit breaker connection and the first busbar support or spacer with respect to the value of the prospective short-circuit current.

	•	•		
Isc (kA)	30	50	65	
Distance A (mm)	350	300	250	

Power connection



- Terminal screw factory-tightened to 16 Nm.
- 2 3 Breaker terminal.
- Busbar.
- 4 5 6 Bolt. Washer.
- Nut.

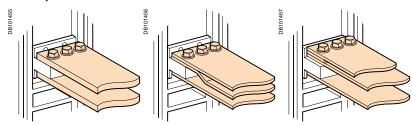
Clamping

Correct clamping of busbars depends amongst other things, on the tightening torques used for the nuts and bolts. Over-tightening may have the same consequences as under-tightening.

For connecting busbars (Cu ETP-NFA51-100) to the circuit breaker, the tightening torques to be used are shown in the table below.

These values are for use with copper busbars and steel nuts and bolts, class 8.8. The same torques can be used with $\dot{\text{AGS-T52}}$ quality aluminium bars (French standard NFA 02-104 or American National Standard H-35-1).

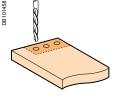
Examples



Tightening to	orques		
Ø (mm) Nominal	Ø (mm) Drilling	Tightening torques (Nm) with grower or flat washers	Tightening torques (Nm) with contact or corrugatec washers
10	11	37.5	50

Busbar drilling

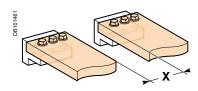








Isolation distance

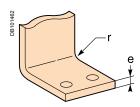


Dimensions (mm)

Ui	X min
600 V	8 mm
1000 V	14 mm

Busbar bending

When bending busbars maintain the radius indicated below(a smaller radius would cause cracks).



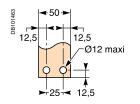
Dimensions (mm)

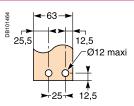
е	Radius of curvature r		
	Min	Recommended	
5	5	7.5	
10	15	18 to 20	

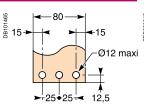
Recommended busbars drilling

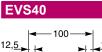
EasyPact EVS08 to EVS40

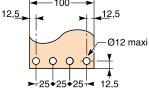
Horizontal rear connection EVS08 to EVS32

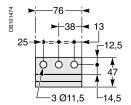


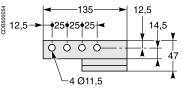


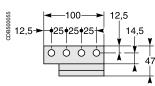




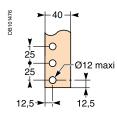


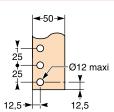


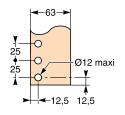




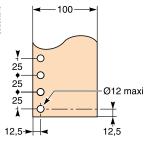
Vertical rear connection EVS08 to EVS32







EVS40



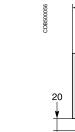
· 14,5 ⊢12,5 —12

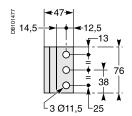
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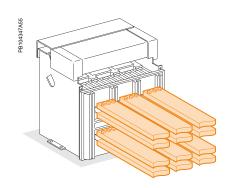


Busbar sizing

Basis of tables:

- Maximum permissible busbars temperature: 100 °C
- Ti: temperature around the ciruit breaker and its connection
- Busbar material is unpainted Copper / Aluminium

Rear horizontal connection



Unpainte	Unpainted Copper (Rear horizontal connection)				
EasyPact	Maximum	Ti:40°C		Ti : 50°C	
	service	No. of 5 mm	No. of 10 mm	No. of 5 mm	No. of 10 mm
	current	thick bars	thick bars	thick bars	thick bars
EVS08	800	2b.50 x 5	1b.50 x 10	2b.50 x 5	1b.50 x 10
EVS10	1000	3b.50 x 5	1b.63 x 10	3b.50 x 5	2b.50 x 10
EVS12	1250	3b.50 x 5	2b.40 x 10	3b.50 x 5	2b.50 x 10
		2b.80 x 5	2b.40 x 10	2b.80 x 5	
EVS16	1600	3b.80 x 5	2b.63 x 10	3b.80 x 5	2b.63 x 10
EVS20	2000	3b.100 x 5	2b.80 x 10	3b.100 x 5	2b.80 x 10
EVS25	2500	4b.100 x 5	2b.100 x 10	4b.100 x 5	2b.100 x 10
EVS32	3200	6b.100 x 5	3b.100 x 10	8b.100 x 5	3b.100 x 10
EVS40	4000		5b.100 x 10		5b.100 x 10

Unpainted Aluminium					
EasyPact	Maximum	Busbar	Ti : 50°C		
	service	orientation	No. of 10 mm		
	current		thick bars		
EVS08	800	Horizontal	2b.40 x 10		
EVS10	1000	Horizontal	2b.50 x 10		
EVS12	1250	Horizontal	2b.80 x 10		
EVS16	1600	Horizontal	3b.80 x 10		
EVS20	2000	Horizontal	3b.100 x10		

Example

Conditions:

- Drawout version
- Horizontal busbars
- T_i: 50°C
- Service current: 1600A

Solution:

For $T_i = 50$ °C, use an EVS16 which can be connected with 2 bars-63x10mm copper (or) 3 bars-80x10mm Aluminium.

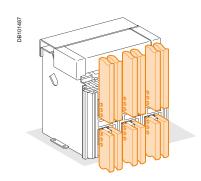
Note: The values indicated in these tables have been extrapolated from test data and theoretical calculations. These tables are only intended as a guide and cannot replace industrial experience or a temperature rise test.

Busbar sizing

Basis of tables:

- Maximum permissible busbars temperature: 100 °C
- Ti: temperature around the ciruit breaker and its connection
- Busbar material is unpainted Copper / Aluminium

Rear vertical connection



Unpainted Copper (Vertical connection)					
EasyPact	Maximum	Ti : 40°C		Ti:50°C	
	service	No. of 5 mm	No. of 10 mm	No. of 5 mm	No. of 10 mm
	current	thick bars	thick bars	thick bars	thick bars
EVS08	800	2b.50 x 5	1b.50 x 10	2b.50 x 5	1b.50 x 10
EVS10	1000	2b.50 x 5	1b.50 x 10	2b.50 x 5	1b.50 x 10
EVS12	1250	2b.63 x 5	1b.63 x 10	3b.50 x 5	2b.40 x 10
EVS16	1600	3b.63 x 5	2b.50 x 10	3b.63 x 5	2b.50 x 10
EVS20	2000	3b.100 x 5	2b.63 x 10	3b.100 x 5	2b.63 x 10
EVS25	2500	4b.100 x 5	2b.80 x 10	4b.100 x 5	2b.80 x 10
EVS32	3200	6b.100 x 5	3b.100 x 10	6b.100 x 5	3b.100 x 10
EVS40	4000		4b.100 x 10		4b.100 x 10

Unpainted Aluminium				
EasyPact	Maximum	Busbar	Ti:50°C	
	service	orientation	No. of 10 mm	
	current		thick bars	
EVS08	800	Vertical	2b.40 x 10	
EVS10	1000	Vertical	2b.50 x 10	
EVS12	1250	Vertical	2b.80 x 10	
EVS16	1600	Vertical	3b.80 x 10	
EVS20	2000	Vertical	4b.80 x 10	
EVS25	2500	Vertical	4b.100 x 10	
EVS32	3200	Vertical	4b.150 x 10	
EVS40	4000	Vertical	5b.150 x 10	

Example

Conditions:

- Drawout version
- Hertical connections
- T_i: 40 °C
- Service current: 1100 A.

Solution:

For T_i = 40 °C use an EVS12 which can be connected with two 63 x 5 mm bars or with one 63 x 10 mm bar.

Note: The values indicated in these tables have been extrapolated from test data and theoretical calculations. These tables are only intended as a guide and cannot replace industrial experience or a temperature rise test.

Temperature derating Power dissipation

Temperature deratingThe table below indicates the maximum current rating, for each connection type, as a function of Ti around the circuit breaker and the busbars. For Ti greater than 60°C, consult us.

Ti: temperature around the circuit breaker and its connection.

Version	Draw-out					Fixed											
Connection	Rear	horizo	ontal			Rear vertical		Rear horizontal		Rear vertical							
Temp. Ti	40 °C 45 °C 50 °C 55 °C 60 °C		60 °C	40 °C 45	5 °C 50	°C 55	5°C €	30 °C	40 °C 45 °C 50 °C 55 °C 60 °C		40 °C 45 °C	50 °C	55 °C 60 °C				
EVS (65kA)																	
EVS08H	800			800		800		800									
EVS10H	1000					1000		1000		1000							
EVS12H	1250					1250		1250		1250							
EVS16H	1600					1600		1600		1600							
EVS20H	2000			1900	1800	2000			•	1900	2000			1920	2000		
EVS25H	2500	2450	2400	2300	2200	2500	24	50 24	400 2	2300	2500				2500		
EVS32H	3200		3100	3000	2900	3200					3200				3200		
EVS40H	4000		3900	3750	3650	4000			:	3900	4000		3900	3800	4000		

Power dissipation

Total power dissipation is the value measured at I_N , 50/60 Hz, for a 3 pole or 4 pole breaker (values above the power P = $3RI^2$). The resistance between input / output is the value measured per pole (cold state).

Туре	Draw-out		Fixed			
65kA	Power loss (W)	Input/output resistance (µohm)	Power loss (W)	Input/output resistance (µohm)		
EVS08H	100	30	42	13		
EVS10H	150	30	70	13		
EVS12H	230	30	100	13		
EVS16H	390	30	170	13		
EVS20H	470	30	250	13		
EVS25H	600	19	260	8		
EVS32H	670	13	420	8		
EVS40H	900	11	650	8		

Dimensions and connection



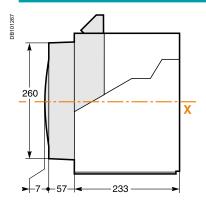
Dimensions and connection

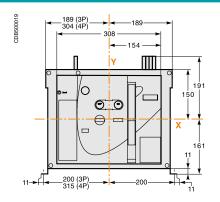
Functions and characteristics	A-1
Installation recommendations	B-1
EVS08 to EVS32 circuit breakers	C-2
Fixed 3/4-poles device	C-2
Draw-out 3/4-poles device	C-4
EVS40 circuit breakers	C-6
Fixed 3/4-poles device	C-6
Draw-out 3/4-poles device	C-8
Accessories	C-10
External modules	C-11
Electrical diagrams	D-1
Additional characteristics	E-1
Catalogue numbers and order form	F-1
3	

EVS08 to EVS32 circuit breakers

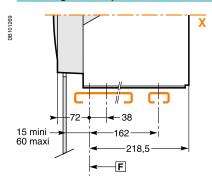
Fixed 3/4-poles device

Dimensions

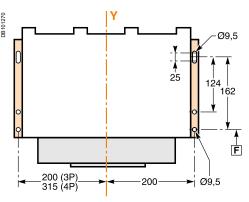




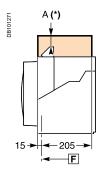
Mounting on base plate or rails

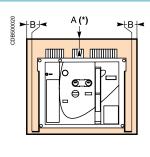


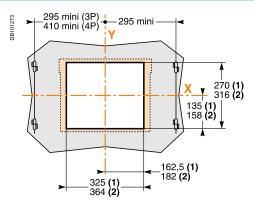
Mounting detail



Safety clearances







			Energised parts
Α	0	0	100
В	0	0	60

F : Datum.

⁽¹⁾ Without escutcheon.

⁽²⁾ With escutcheon.

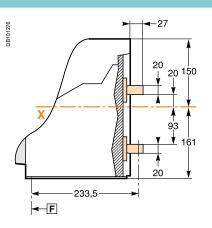
Note: X and Y are the symmetry planes for a 3-pole device.

A(*) An overhead clearance of 50 mm is required to remove the arc chutes. An overhead clearance of 20 mm is required to remove the terminal block.

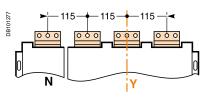
Connections

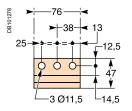
Horizontal rear connection

FZZ10180

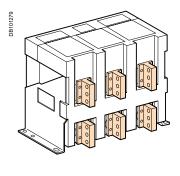


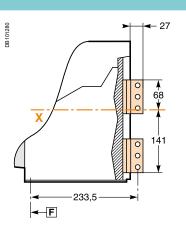
Detail



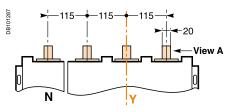


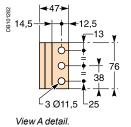
Vertical rear connection





Detail



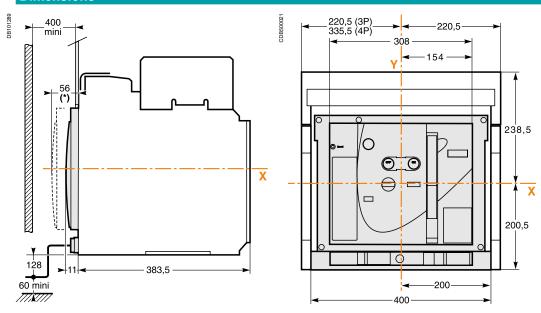


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EVS08 to EVS32 circuit breakers

Draw-out 3/4-poles device

Dimensions

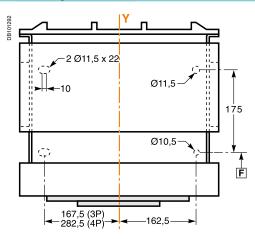


(*) Disconnected position.

Mounting on base plate or rails

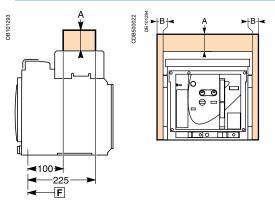
-283 F

Mounting detail



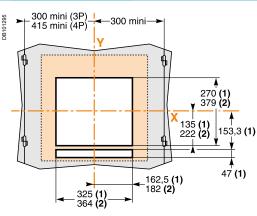
Safety clearances

Door cutout



	Insulated parts		Energised parts
Α	0	0	60
В	0	0	60

1	: Datum.
ı <i>⊢</i> ı	. Dalum.



(1) Without escutcheon.

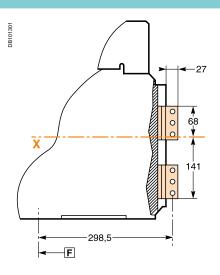
(2) With escutcheon.

Note: X and Y are the symmetry planes for a 3-pole device.

Connections

Vertical rear connection

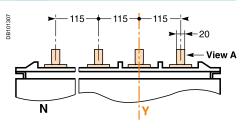
Secondary Control of the control of

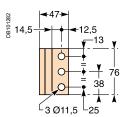


-298,5

F

Detail



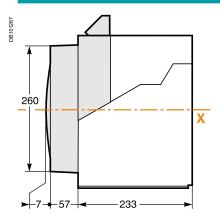


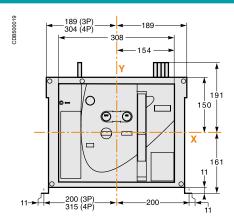
View A detail.

EVS40 circuit breakers

Fixed 3/4-poles device

Dimensions

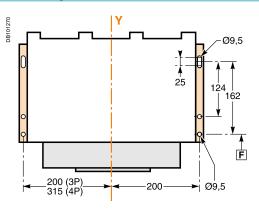




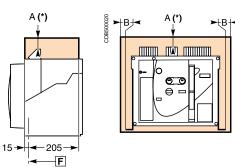
Mounting on base plate or rails

DB101269 15 mini -60 maxi 218,5 F

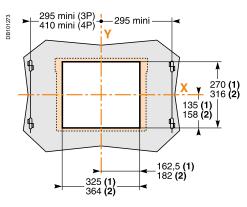
Mounting detail



Safety clearances



Door cutout



	Insulated parts		Energised parts
Α	0	0	100
В	0	0	60

F : Datum.

An overhead clearance of 20 mm is required to remove the terminal block.

⁽¹⁾ Without escutcheon.

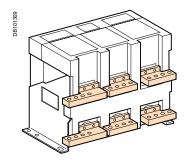
⁽²⁾ With escutcheon.

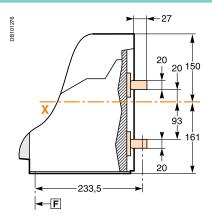
Note: X and Y are the symmetry planes for a 3-pole device.

A(*) An overhead clearance of 110 mm is required to remove the arc chutes.

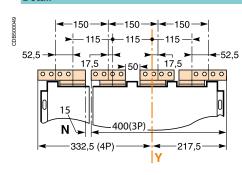
Connections

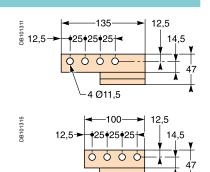
Horizontal rear connection



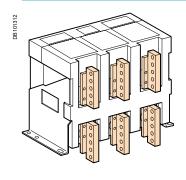


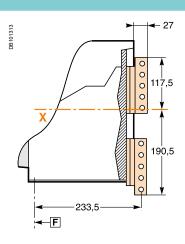
Detail



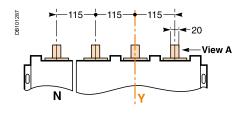


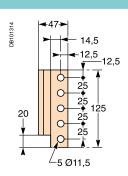
Vertical rear connection





Detail

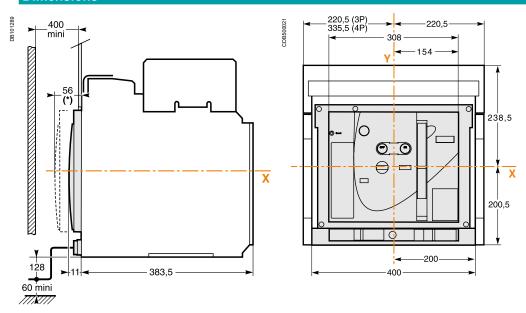




EVS40 circuit breakers

Draw-out 3/4-poles device

Dimensions

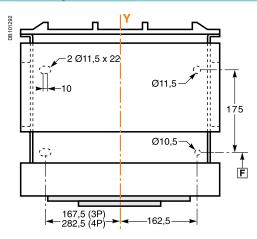


(*) Disconnected position.

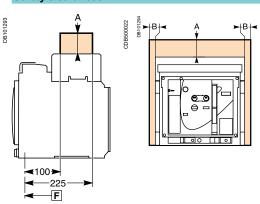
Mounting on base plate or rails

-283 F

Mounting detail



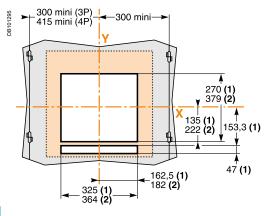
Safety clearances



			Energised parts
Α	0	0	60
В	0	0	60

F : Datum.

Door cutout



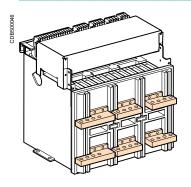
- (1) Without escutcheon.
- (2) With escutcheon.

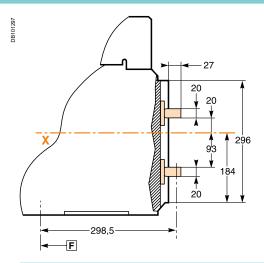
Note: X and Y are the symmetry planes for a 3-pole device.

The safety clearances take into account the space required to remove the arc chutes.

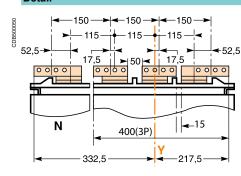
Connections

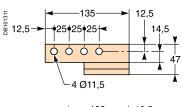
Horizontal rear connection

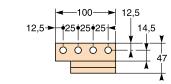




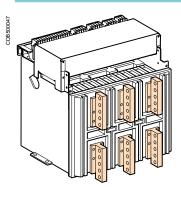
Detail

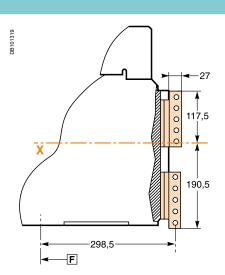


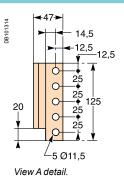




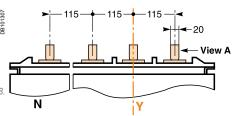
Vertical rear connection







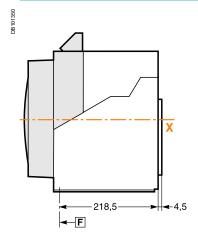
Detail

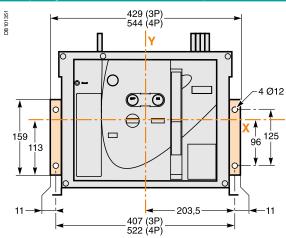


Note: Recommended connection screws: **M10** class 8.8. Tightening torque: **50** Nm with contact washer.

Accessories

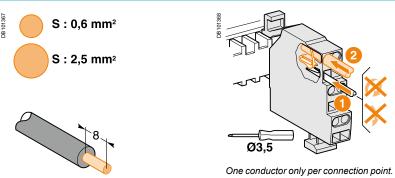
Mounting on backplate with special brackets (EasyPact EVS08 to 32 fixed)



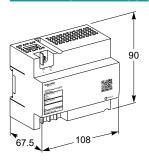


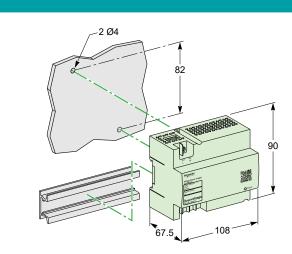
External modules

Connection of auxilary wiring to terminal block

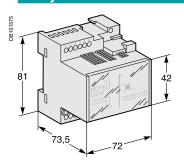


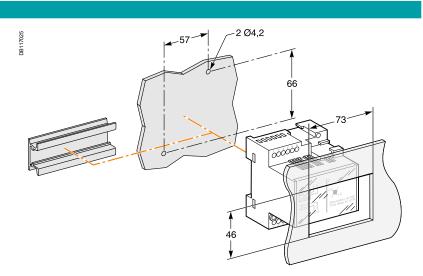
External power supply module (AD)





Delay unit for MN release



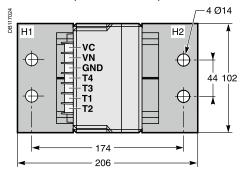


External modules

External sensor for external neutral

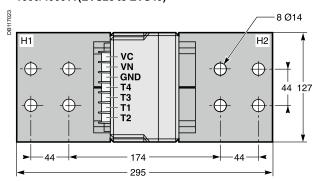
Dimensions

400/2000 A (EVS08 to EVS20)



High: 162 mm.

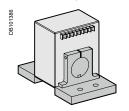
1000/4000 A (EVS25 to EVS40)



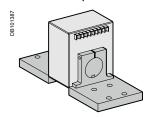
High: 162 mm.

Installation

400/2000 A (EVS08 to EVS20)



1000/4000 A (EVS25 to EVS40)



Electrical diagrams



Electrical diagrams

Functions and characteristics	A-:
Installation recommendations	B-1
Dimensions and connection	C-1
EasyPact EVS08 to 40	D-2
Fixed and draw-out devices	D-2
EasyPact EVS	D-4
Earth-fault protection/Neutral protection	D-4
Zone selective interlocking	D-:
24 V DC external power supply AD module	D-6
Additional characteristics	E-1
Catalogue numbers and order form	F-
	Installation recommendations Dimensions and connection EasyPact EVS08 to 40 Fixed and draw-out devices EasyPact EVS Earth-fault protection/Neutral protection Zone selective interlocking 24 V DC external power supply AD module Additional characteristics

EasyPact EVS08 to EVS40

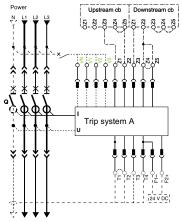
Fixed and draw-out devices

The diagram is shown with circuits de-energised, all devices open, connected and charged and relays in normal position.

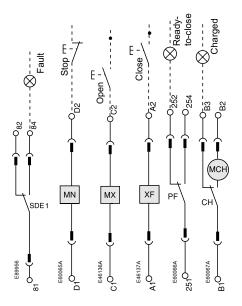
Power

Trip system A

Power Upstream cb Downstream c



Remote operation



T rip system							
U	C1	U	02				
o Z 5							
o Z3	o Z 4	0 T3	o T4				
o Z 1	o Z 2	0 T1	o T2				

Trip system A							
U	01	U	02	UC3			
o Z 5				ნე F2+			
o Z3	o Z 4	o T3	o T4	VN			
o Z1	o Z2	0 T1	o T2	√ F1-			

Remote operation							
SDE	MN	MX	XF	PF	MCH		
84	D2	C2	A2	ر 254	Б2		
82				252	Б3		
81	D1	C1	ر A1	ر 251	Б В1		

Trip system

UC1:

Z1-Z5 zone selective interlocking Z1=ZSI OUT SOURCE Z2=ZSI OUT; Z3 = ZSI IN SOURCE Z4 = ZSI IN ST (short time)

Z5 = ZSI IN GF (earth fault)

UC2:

T1, T2, T3, T4=external neutral

UC3:

F2+, F1-: external 24 V DC power supply

Remote operation

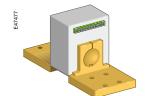
SDE: Fault-trip indication contact (supplied as standard)

MN: Undervoltage release

MX: Shunt release (standard for Electrical breaker) **XF:** Closing release (standard for Electrical breaker)

PF: "Ready to close" contact

MCH: Gear motor (standard for Electrical breaker)



External sensor (CT).

External sensors (Neutral CT)

External sensor for earth-fault protection

The sensors, used with the 3P circuit breakers, are installed on the neutral conductor for:

1. Residual type earth-fault protection(6.0/6.0A trip system)

The rating of the sensor (CT) must be compatible with the rating of the circuit breaker:

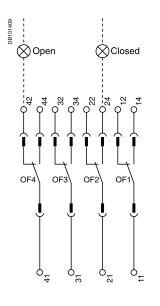
- 1. EVS08 to EVS20: CT 400/2000;
- 2. EVS25 to EVS40: CT 1000/4000;

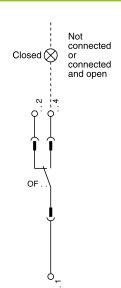
EasyPact EVS08 to EVS40

Chassis contacts

Fixed and draw-out devices

Indication contacts





⊗ Disconnected ⊗ Connected 0 832 0 834 0 822 0 824 0 812 0 814 934 932 932 924 922 914 CD3 CD1 CE3 CE2 CE1 СТЗ CT2 CT1 CD2

Indication contacts								
OF4	OF3	OF2	OF1		OF14	OF13	OF12	OF11
44	5 3 34	ر 24	5 7 14		5 0 144	134	5 3 124	5 0 114
42	ر 32	ි 22	ر 12		5 142	132	り 122	る 112
م 41	ر 31	رم 21	ر 11		ر 141	ر 131	ر 121	ر 111
Standard					Optional			

Cha	Chassis contacts							
CD3	CD2	CD1	CE3	CE2	CE1	СТЗ	CT2	CT1
834	5 824	ر 814	5 334	5 324	5 314	5 934	924	ر 914
832	ნე 822	ر 812	ა 332	ر 322	ر 312	ر 932	922	ر 912
රි ර 831	して 821	ර ර 811	ან 331	ნე 321	ნე 311	ნე 931	ර ි 921	ر 911
Optional								

Indication contacts

OF 4	Standard
OF 3	ON/OFF
OF 2	Standard ON/OFF Indication contacts
OF 1	

OF 14	Optional ON/OFF
OF 13	ON/OFF
OF 12	Indication contacts
OF 11	

Chassis contacts

CD3 Disconnected	CE3 Connected	CT3 Test
CD2 Position	CE2 Position	CT2 Position
CD1 Contacts	CE1 Contacts	CT1 Contacts
		İ

Key:

Draw-out device only

XXXX SDE1, OF1, OF2, OF3, OF4 supplied as standard

¬ Interconnected connections (only one wire per connection point)

EasyPact EVS

Earth-fault protection **Neutral Protection**

External sensor (CT) for residual earth-fault protection

Connection of current-transformer secondary circuit for external neutral

EasyPact EVS equipped with a 6.0/6.0A:

- Shielded cable with 2 twisted pairs
- T1 twisted with T2
- Maximum length 4 meters
- Cable cross-sectional area 0.4 to 1.5 mm²
- Recommended cable: Belden 9552 or equivalent For proper wiring of neutral CT, refer to instruction

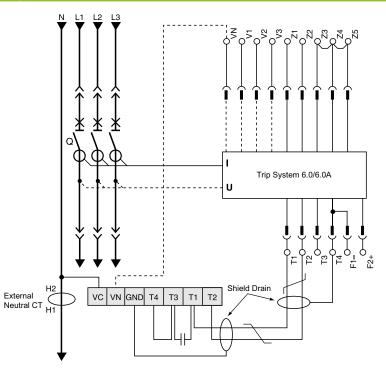
Bulletin 48041-082-03 shipped with it. Do not remove factory-installed jumper between T1 and T2 unless neutral CT is connected.

If supply is via the top, follow the shematics.

If supply is via the bottom, control wiring is identical;

the power wiring, H1 is connected to the source side, H2 to the load side.

For four-pole versions, for residual earth-fault protection, the current transformer for the external neutral is not necessary.



Neutral protection

- Three pole circuit breaker:
- □ Neutral protection is impossible
- Four pole circuit breaker:
- ☐ The current transformer for external neutral is not necessary

EasyPact EVS

Zone Selective Interlocking

Zone selective interlocking

Zone-selective interlocking is used to reduce the electrodynamic forces exerted on the installation by shortening

the time required to clear faults, while maintaining time discrimination between the various devices.

A pilot wire interconnects a number of circuit breakers equipped with Trip system, as illustrated in the diagram above. The control unit detecting a fault sends a signal upstream and checks for a signal arriving from downstream. If there is a signal

from downstream, the circuit breaker remains closed for the full

duration of its tripping delay. If there is no signal from downstream, the circuit breaker opens immediately, regardless of the tripping-delay setting.

Fault 1

Only circuit breaker A detects the fault. Because it receives no signal from downstream, it opens immediately, regardless of its

tripping delay set to 0.3.

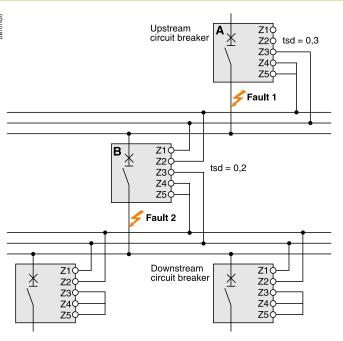
Fault 2

Circuit breakers A and B detect the fault. Circuit breaker A receives a signal from B and remains closed for the full duration

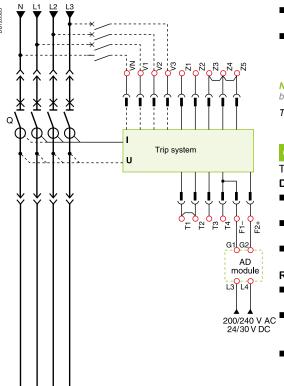
of its tripping delay set to 0.3. Circuit breaker B does not receive a signal from downstream and opens immediately, in spite of its tripping delay set to 0.2.

Wiring

- Maximum impedance: 2.7 W / 300 m
- Capacity of connectors: 0.4 to 2.5 mm²
- Wires: single or multicore
- Maximum lenght: 3000 m
- Limits to device interconnection:
- □ The common ZSI OUT (Z1) and the output ZSI OUT (Z2) can be connected to a maximum of 10 upstream device
- □ A maximum of 100 downstream devices may be connected to the common ZSI IN (Z3) and to an input ZSI IN CR (Z4) or GF (Z5)



EasyPact EVS 24 V DC external power supply AD module



- The 24 V DC external power-supply (AD module) for the Trip system (F1-F2+) is not required for basic protections LSIG
- With Trip System A, it is recommended to connect 24 V DC external powersupply (AD module) to the Trip System (F1-F2+) in order to keep available the display and the ammeter metering, even if Current < 20 % In

Note: In case of using the 24 V DC external power supply (AD module), maximum cable length between 24 V DC (G1, G2) and the control unit (F1-, F2+) must not exceed 10 meters.

The internal voltage taps are connected to the bottom side of the circuit breaker.

Connection

The maximum length for each conductor supplying power to the trip unit is 10 m. Do not ground F2+, F1-, or power supply output:

- The positive terminal (F2+) on the trip unit must not be connected to earth ground
- The negative terminal (F1-) on the trip unit must not be connected to earth ground
- The output terminals (- and +) of the 24 V DC power supply must not be grounded

Reduce electromagnetic interference:

- The input and output wires of the 24 V DC power supply must be physically separated as much as possible
- If the 24 V DC power supply wires cross power cables, they must cross perpendicularly. If this is not physically possible, the power supply conductors must be twisted together
- Power supply conductors must be cut to length. Do not loop excess conductor

Additional characteristics

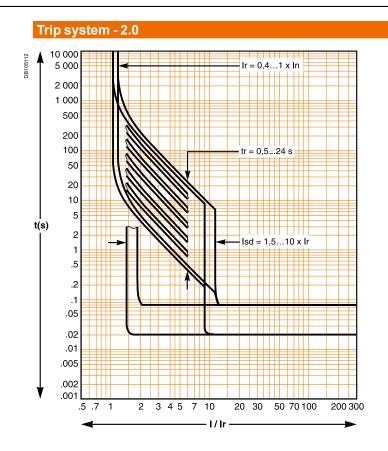


EasyPact EVS

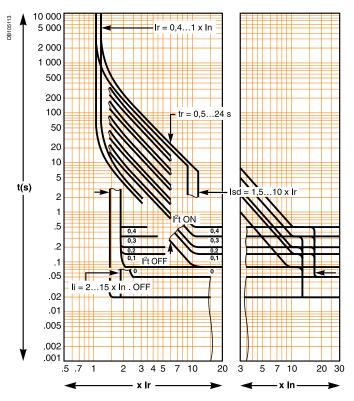
Additional characteristics

Functions and characteristics	A
Installation recommendations	B-
Dimensions and connection	C-
Electrical diagrams	D-
Tripping curves	E-2
Catalogue numbers and order form	F-

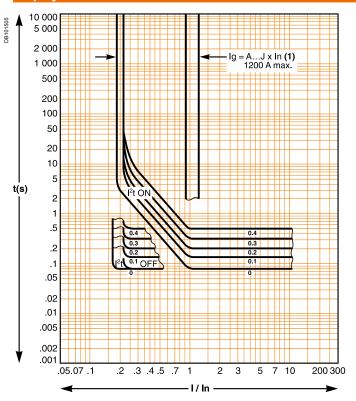
Tripping curves



Trip system - 5.0/5.0A/6.0/6.0A



Trip system - 6.0/6.0A



(1)									
lg = ln x	Α	В	С	D	Е	F	G	Н	1
In ≤ 400 A	0.3	0.3	0.4	0.5	0.6	0.7	8.0	0.9	1
400 A < In ≤ 1000 A	0.2	0.3	0.4	0.5	0.6	0.7	8.0	0.9	1
In ≥ 1250A	500	640	720	800	880	960	1040	1120	1200

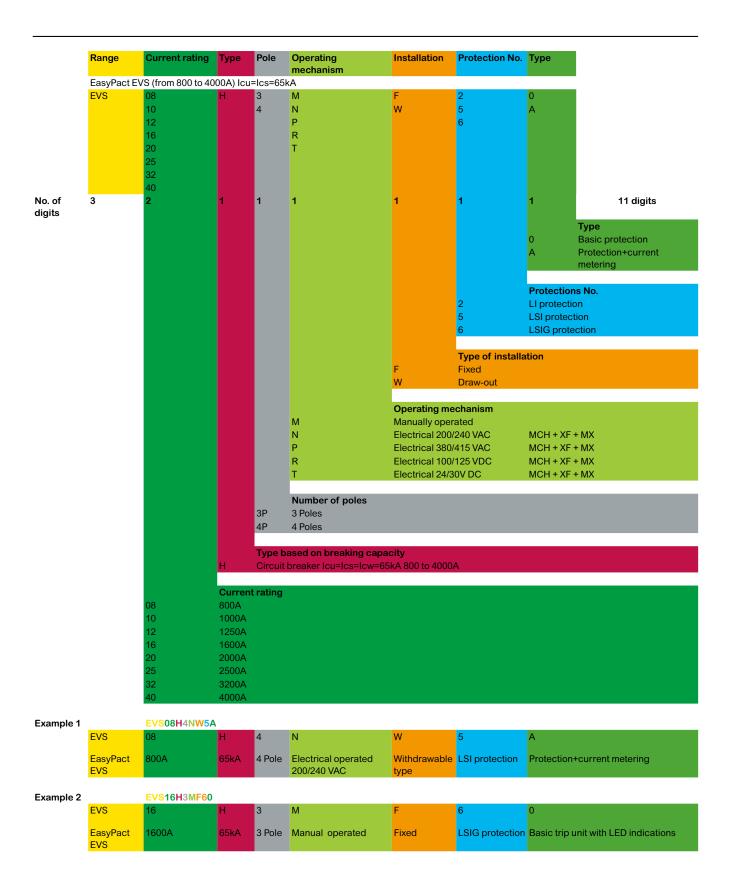
Catalogue numbers and order form



Catalogue numbers and order form

Order form	F-14
Instructions	F-1:
Indication contacts	F-1
Mechanical interlocking for source changeover	F-1
Circuit breaker locking and accessories	F-10
Chassis locking and accessories	F-9
Remote operation	F-'
Trip System & accessories	F-(
Connection	F-
EasyPact EVS	F-:
Nomenclature	F-:
Tripping curves	E-
Electrical diagrams	D-
Dimensions and connection	C-
Installation recommendations	B-
Functions and characteristics	A-

Nomenclature



EasyPact EVS drawout 65KA

EasyPact EVS drawou	ut type 65k	KA with Trip S	System				
		3P			4P		
		Trip System 2.0	Trip System 5.0	Trip System 6.0	Trip System 2.0	Trip System 5.0	Trip System 6.0
M	anual 800A	EVS08H3MW20	EVS08H3MW50	EVS08H3MW60	*	*	*
	1000	EVS10H3MW20	EVS10H3MW50	EVS10H3MW60	*	*	*
	1250	EVS12H3MW20	EVS12H3MW50	EVS12H3MW60	*	*	*
	1600	EVS16H3MW20	EVS16H3MW50	EVS16H3MW60	*	*	*
	2000	EVS20H3MW20	EVS20H3MW50	EVS20H3MW60	*	*	*
	2500	EVS25H3MW20	EVS25H3MW50	EVS25H3MW60	*	*	*
	3200	EVS32H3MW20	EVS32H3MW50	EVS32H3MW60	*	*	*
	4000	EVS40H3MW20	EVS40H3MW50	EVS40H3MW60	*	*	*
El	ectrical 800A	EVS08H3NW20	EVS08H3NW50	EVS08H3NW60	*	*	*
24	1000A	EVS10H3NW20	EVS10H3NW50	EVS10H3NW60	*	*	*
	1250	EVS12H3NW20	EVS12H3NW50	EVS12H3NW60	*	*	*
	1600	EVS16H3NW20	EVS16H3NW50	EVS16H3NW60	*	*	*
	2000/	EVS20H3NW20	EVS20H3NW50	EVS20H3NW60	*	*	*
	2500/	EVS25H3NW20	EVS25H3NW50	EVS25H3NW60	*	*	*
	3200	EVS32H3NW20	EVS32H3NW50	EVS32H3NW60	*	*	*
	40004	EVS40H3NW20	EVS40H3NW50	EVS40H3NW60	*	*	*

EasyPact EVS draw	out type	65KA	4 with Trip S	ystem A
			3P	
				Trip System 5.

o are ey pr							
		3P			4P		
			Trip System 5.0A	Trip System 6.0A		Trip System 5.0A	Trip System 6.0A
Manual	800A	*	EVS08H3MW5A	EVS08H3MW6A	*	EVS08H4MW5A	EVS08H4MW6A
	1000A	*	EVS10H3MW5A	EVS10H3MW6A	*	EVS10H4MW5A	EVS10H4MW6A
	1250A	*	EVS12H3MW5A	EVS12H3MW6A	*	EVS12H4MW5A	EVS12H4MW6A
	1600A	*	EVS16H3MW5A	EVS16H3MW6A	*	EVS16H4MW5A	EVS16H4MW6A
	2000A	*	EVS20H3MW5A	EVS20H3MW6A	*	EVS20H4MW5A	EVS20H4MW6A
	2500A	*	EVS25H3MW5A	EVS25H3MW6A	*	EVS25H4MW5A	EVS25H4MW6A
	3200A	*	EVS32H3MW5A	EVS32H3MW6A	*	EVS32H4MW5A	EVS32H4MW6A
	4000A	*	EVS40H3MW5A	EVS40H3MW6A	*	EVS40H4MW5A	EVS40H4MW6A
Electrical	800A	*	EVS08H3NW5A	EVS08H3NW6A	*	EVS08H4NW5A	EVS08H4NW6A
240V AC	1000A	*	EVS10H3NW5A	EVS10H3NW6A	*	EVS10H4NW5A	EVS10H4NW6A
	1250A	*	EVS12H3NW5A	EVS12H3NW6A	*	EVS12H4NW5A	EVS12H4NW6A
	1600A	*	EVS16H3NW5A	EVS16H3NW6A	*	EVS16H4NW5A	EVS16H4NW6A
	2000A	*	EVS20H3NW5A	EVS20H3NW6A	*	EVS20H4NW5A	EVS20H4NW6A
	2500A	*	EVS25H3NW5A	EVS25H3NW6A	*	EVS25H4NW5A	EVS25H4NW6A
	3200A	*	EVS32H3NW5A	EVS32H3NW6A	*	EVS32H4NW5A	EVS32H4NW6A
	4000A	*	EVS40H3NW5A	EVS40H3NW6A	*	EVS40H4NW5A	EVS40H4NW6A

EasyPact EVS 800-4000A EasyPact EVS fixed 65KA

S fixed type 65		3P			4P		
		Trip System 2.0	Trip System 5.0	Trip System 6.0	Trip System 2.0	Trip System 5.0	Trip System 6.0
Manual	800A	EVS08H3MF20	EVS08H3MF50	EVS08H3MF60	*	*	*
	1000A	EVS10H3MF20	EVS10H3MF50	EVS10H3MF60	*	*	*
	1250A	EVS12H3MF20	EVS12H3MF50	EVS12H3MF60	*	*	*
	1600A	EVS16H3MF20	EVS16H3MF50	EVS16H3MF60	*	*	*
	2000A	EVS20H3MF20	EVS20H3MF50	EVS20H3MF60	*	*	*
	2500A	EVS25H3MF20	EVS25H3MF50	EVS25H3MF60	*	*	*
	3200A	EVS32H3MF20	EVS32H3MF50	EVS32H3MF60	*	*	*
	4000A	EVS40H3MF20	EVS40H3MF50	EVS40H3MF60	*	*	*
Electrical	800A	EVS08H3NF20	EVS08H3NF50	EVS08H3NF60	*	*	*
240V AC	1000A	EVS10H3NF20	EVS10H3NF50	EVS10H3NF60	*	*	*
	1250A	EVS12H3NF20	EVS12H3NF50	EVS12H3NF60	*	*	*
	1600A	EVS16H3NF20	EVS16H3NF50	EVS16H3NF60	*	*	*
	2000A	EVS20H3NF20	EVS20H3NF50	EVS20H3NF60	*	*	*
	2500A	EVS25H3NF20	EVS25H3NF50	EVS25H3NF60	*	*	*
	3200A	EVS32H3NF20	EVS32H3NF50	EVS32H3NF60	*	*	*
	4000A	EVS40H3NF20	EVS40H3NF50	EVS40H3NF60	*	*	*

EasyPact EVS Connection

Connection				
			3P	4P
Fixed circuit breal	kers			
Rear connection (ve	rtical or horizontal mounting) / I	Replacement kit (3 or 4 parts)		
£ . E	800-2000 A	Vertical	47964	47965
		Horizontal	47964	47965
	2500/3200 A	Vertical	47966	47967
Vartical magnetina		Horizontal	47966	47967
Vertical mounting.	4000 A	Vertical	47968	47969
E46446		Horizontal	47970	47971
Draw-out circuit b Rear connection (ver	reakers rtical or horizontal mounting) /	Replacement kit (3 or 4 parts)		
	800-2000 A	Vertical	47964	47965
		Horizontal	47964	47965
	2500/3200 A	Vertical	47966	47967
		Horizontal	47966	47967
Vertical mounting.	4000 A	Vertical	47968	47969
9		Horizontal	47970	47971
E E E E E E E E E E E E E E E E E E E				
Horizontal mounting.			[5\/004705	
	Installation manual		EVS21735	

Connection accessories

Interphase barriers / Replacement kit (3 parts) For fixed rear-connected circuit breaker 48599 48599 For draw-out rear-connected circuit breaker 48600

EasyPact EVSTrip System & accessories

Trip units & accessories Battery + cover 33593 Battery (1 part) Cover (1 part) 33592

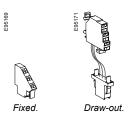


External sensors					
External sensor for earth-fault protection (TCE) / 1 part					
	Sensor rating	400/2000 A	34035		
		1000/4000 A	34036		

External power supply module (AD) / 1 part LV54440 24-30 V DC 200-240 V AC LV54444

EasyPact EVS Remote operation

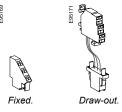
Remote operation MCH (1 part) AC 50/60 Hz 200/240 V 47894 380/415 V 47896 DC 24/30 V 47888 100/125 V 47890 Terminal block (1 part) For fixed circuit breaker 47074 47849 For draw-out circuit breaker



Closing	release	(XF)
Mes.		



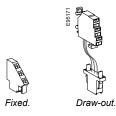
Standard coil (1 part)		
AC 50/60 Hz	24/30 V DC, 24 V AC	33659
DC	100/130 V AC/DC	MVS15511
	200/250 V AC/DC	MVS15512
	380/480 V AC	MVS15513
Terminal block (1 part)	For fixed circuit breaker	47074
	For draw-out circuit breaker	47849



Opening release (MX)



Standard coil (1 part)		
AC 50/60 Hz	24/30 V DC, 24 V AC	33659
DC	100/130 V AC/DC	33661
	200/250 V AC/DC	33662
	380/480 V AC	33664
Terminal block (1 part)	For fixed circuit breaker	47074
	For draw-out circuit breaker	47849



EasyPact EVS Remote operation

Remote operation Undervoltage release MN Undervoltage release (1 part) AC 50/60 Hz 24/30 V DC, 24 V AC 33668 DC 100/130 V AC/DC 33670 200/250 V AC/DC 33671 380/480 V AC 33673 Terminal block (1 part) For fixed circuit breaker 47074 47849 For draw-out circuit breaker

MN delay unit					
88	MN delay unit (1 part)				
			R (non-adjustable)	R r (adjustable)	
		100/130 V AC/DC	33684	33681	
		200/250 V AC/DC	33685	33682	
		380/480 V AC/DC	-	33683	
				*	_

Catalogue numbers and order form

EasyPact EVSChassis locking and accessories

Chassis locking			
"Disconnected" posi	tion locking / 1 part		
458	By padlocks		
DB117458		VCPO	Standard
	By Profalux keylocks		
		Profalux 1 lock+ 1 key (without adaptation kit)	42888
		Profalux 2 locks + 1 key (without adaptation kit)	42878
		Adaptation kit (without key locks)	48564
	By Ronis keylocks		
		Ronis 1 lock+ 1 key (without adaptation kit)	41940
		Ronis 2 locks + 1 key (without adaptation kit)	41950
		Adaptation kit (without key locks)	48564
Door interlock / 1 par	t		
4452	Right and left-hand side o	f chassis (VPECD or VPECG)	47914
8			•



Chassis accessories Auxiliary terminal shield (CB) / 1 part 800/4000 A



48595 3P 4P 48596

Shutter locking block (for replacement) / 1 part



48591 2 parts for 800/4000 A

Racking handle



47944 Racking handle

EasyPact EVS

Circuit breaker locking and accessories

Circuit breaker locking

Pushbutton locking device / 1 part

By padlocks

48536

42888

64925

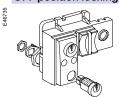


OFF position locking / 1 part

By Profalux keylocks

Profalux 1 lock+ 1 key (without adaptation kit) Adaptation kit (without key locks) By Ronis keylocks

Ronis 1 lock+ 1 key (without adaptation kit) 41940 64925 Adaptation kit (without key locks)



Mechanical operation counter / 1 part

Operation counter CDM

48535

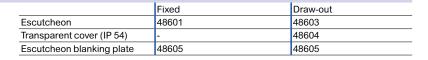


Escutcheon and accessories / 1 part

CDB50006





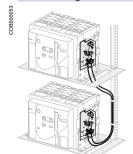


Cover

Blanking plate

EasyPact EVSMechanical interlocking for source changeover

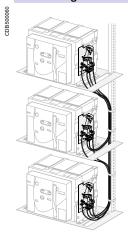
Mechanical interlocking for source changeover Interlocking of 2 devices using cables (1)



ising capies					
Choose 2 adaptation sets (1 for each device + 1 set of cables)					
1 adaptation fixture for EasyPact EVS fixed devices	47926				
1 adaptation fixture for EasyPact EVS draw-out devices	47926				
1 set of 2 cables	33209				

(1) Can be used with any combination of EasyPact EVS, fixed or draw-out devices.

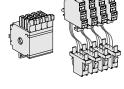
Interlocking of 3 devices using cables



using capies	
Choose 3 adaptation (including 3 adaptation fixtures + cables)	
3 sources, only 1 device closed, fixed or draw-out devices	48610
2 sources + 1 coupling, fixed or draw-out devices	48609
2 normal + 1 replacement source, fixed or draw-out devices	48608

EasyPact EVS Indication contacts

Indication contacts ON/OFF indication contacts (OF) / 12 parts 1 additional block of 4 contacts 47887 Wiring For fixed circuit breaker 47074 47849 For draw-out circuit breaker



"Ready to close" contact (1 max.) / 1 part	"Read	v to close"	contact ((1 max.)) / 1 part
--	-------	-------------	-----------	----------	------------

Pal .	1 changeover cont	1 changeover contact (5 A - 240 V) 47080			
	Wiring	For fixed circuit breaker	47074		
l MA		For draw-out circuit breaker	47849		

"Connected, disconnecte	d, test position" indicatior	contact (carriage switches) / 1 part	
E_	Changeover contacts	6 A - 240 V	33170

9	
4	昌
	~

Auxiliary terminals for chassis alone	
3 wire terminal (1 part)	47849
6 wire terminal (1 part)	47850
Jumpers (10 parts)	47900

EasyPact EVS Instructions

Instructions		
	EasyPact EVS User Manual (English)	EVS21734
	EasyPact EVS Installation Manual(English)	EVS21735
	EasyPact EVS breaker accessories Installation Manual(English)	EVS21737
	EasyPact EVS cradel accessories Installation Manual(English)	EVS21738

Catalogue numbers and order form

EasyPact EVS

Order ref no:				Easy Pact	EVS			
Date:				Circuit break	er Customer Or	der form		
Product ref no:				Oll Cult Di Cake	ei Gustoiniei Oi	dei loilli		
OA No.								
(to be filled by Order booking team)								
To indicate your choices, ch	heck the applicable s	square boxes		Indication contacts				
A		terrele e		OF - ON/OFF indication contact		40.4.040/0007.4.0		
And enter the appropriate i	information in the rec	ctangles		Standard Additional	1 block of 4 OF 1 block of 4 OF	10 A-240/380V AC 6 A-240/380V AC		П
				SDE - "fault-trip" indication co		0 A-240/300V AC		
Circuit breaker		Quantity		Standard	1 SDE	5A -240/380V AC		
		Quantity		Optional				
Rating	Α			Carriage switches		8 A-240/380V AC		
Circuit breaker	н		Н	CE - "Connected" position	Max. 3		qty	
Number of poles	3 or 4			CT - "Test" position	Max. 3		qty	
Optional Neutral on Right	hand side		yes	CD - "Disconnected" position	Max. 3		qty	
Type of equipment	Fixed			Remote tripping	MN - Under voltage release		٧]
	Draw out wit	th chassis	Ш		R - Delay unit (fixed time delay)	0.25s		Ш
	Draw out wit	thout chassis			Rr - Adjustable delay unit	0.5s3s		Щ
	(moving par			AD - External power-supply mo			٧	\dashv
	Chassis alor		-		neutral of 3 Phase-4 Wire systems			+
Operating Mechanism	Manual Ope		\mathbb{H}		neutral of 3 Phase-4 Wire systems	5A-240/380V AC		_ √
Electrical Operated MX+XF+MCH Voltage		PF - "Ready to close" contact Locks		5A-240/360V AC		Ш		
WX+XF+MCH Voltage Voltage Option: 200/240 VAC;380/415 VAC;24/30 VDC;100/125VDC				ing (by transparent cover using pa	dlock)		\Box	
Voltage Option: 200/240 VAC,360/413 VAC,24/30 VDC,100/123VDC			· · · · · · · · · · · · · · · · · · ·	osition by key lock (Only one key lo				
Trip System					Key lock kit (w/o key lock)	Profalux	Ronis	П
0- Without display	2.0	5.0	6.0		1 key lock	Profalux	Ronis	П
A - Current Metering		5.0	6.0					
				Chassis locking in "Disconned	eted" position:	_		_
LR - Long-time rating plug	Standa	rd 0.4 to 1 lr		VSPD - by key locks	Key lock kit (w/o key lock)	Profalux	Ronis	Ш
Connection	_		_		1 key lock	Profalux	Ronis	Ш
Horizontal	Тор	Bottom	\vdash		2 identical key locks, 1 key	Profalux	Ronis	\dashv
Vertical	Тор	Bottom		Door Interlock - VPEC		On left-hand side of chass On right-hand side of chas	, ,	\mathbb{H}
Trip System functions:				Mechanical Interlocking	of ACRs with Cable	Off fight-fiand side of chas	3313 (1711)	
2.0 : Basic protection (lo		t time + inet \		1 Normal source & 1 replaceme				П
5.0 : Selective protection 6.0 : Selective + earth-fa		t time + mst.)		2 normal + 1 replacement source	,			Н
(long time + short tir	me + inst. + earth-f	fault)		2 sources with coupler on busbars (3 devices)			П	
				3 sources, only 1 device closed, fixed or draw-out devices			П	
				Accessories				
		VO - Safety shutters on chassis		Standard				
				CDP - Escutcheon		Standard		
				Safety Shutter locking blocks			Щ	
				CP - Transparent cover for escu				\dashv
				OP - Blanking plate for escutch				\dashv
				CDM - Mechanical operation co				$\dashv\dashv$
				CB - Auxiliary terminal shield fit EIP - Interphase barriers	teu on Chassis			$+\!\!\!\!+\!\!\!\!\!+$
				LIF - IIIICI PHASE DAITICIS				$oldsymbol{\sqcup}$

Notes:
Customer can provide only the reference no. of the product for the listed references. Kindly refer to product catalogue for list of references. Customer to fill this order form for non-listed references.

All breakers will be provided with 1 OF (4 c/o contacts), 1 SDE (trip contact), Escutcheon (Panel sealing frame) as standard.

All draw-out breakers will be supplied with Chassis & safety shutter.

For Electrical operated breakers, indicate the voltage ratings of MCH,XF & MX

Refer to product catalogue for available voltage ratings of MCH/XF/MX/MN & AD Module

The orientation of customer connecting terminals can be changed at site from Horizontal to vertical or vice-versa.

EasyPacity

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EasyPact EVS H order form



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