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

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Green Premium brings improved resource efficiency throughout an asset's lifecycle. This includes efficient use of energy and natural resources, along with the minimization of CO₂ emissions.

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Discover what we mean by green Check your products!



An alternative approach to electrical protection





4 | Fu**Pac**T www.se.com

The essentials of electrical protection

Schneider Electric is committed to bringing you one of the most flexible and comprehensive fuse device offer on the market. We bring you essential functions combined with advanced features such as measurement and turnable hooks to deliver a "best in class" solution that provides electrical protection for your industrial applications with single and double breaking switch fuses.

Fuse devices are designed to perform three functions for electrical protection:

- Switch function for circuit on-load control
- Fuse function against short-circuits and overloads
- Isolation from the power circuit.

A complete solution

Schneider Electric
offers complete
electrical protection
for distribution
systems including
fuse devices that
fully integrate in
Schneider's functional
enclosures (Prisma)
and busbar trunking
systems (Canalis)

Simple and flexible

- Easy to install and flexible in terms of footprint, cable connections, and product position. Includes mounting plates or can be mounted directly onto busbars or DIN rail.
- Easy to operate and simple to maintain

Fully compatible

Fusegear solutions have been designed to be used with all fuse-links and complying with standard:

• IEC 60269-1 and -2

Fully certified

Fuse offer complies with international standards, certifications and markings:

- IEC 60947-1 and -3
- CCC certificates
- EAC certificates



FuPacT ISFL 160 to 1250 A



FuPacT ISFT 100 to 630 A

Single breaking offer: Fuse switch disconnectors

Functions:

- Short-circuit and overload protection
- Isolation
- On-load switching of circuits



- High level of reliability against short-circuits
- High flexibility on busbar systems thanks to its turnable hooks
- Opening and closing operations are dependent on the operator's action

www.se.com FuPacT|5

Components that work great together by design

All Schneider Electric components, from electrical devices and busbars, to splitter blocks and switchboards, work together for optimal performance. Their electrical and mechanical functions and communications features integrate seamlessly.

Our range of fuse devices provides:

- Protection for people and property
- Energy quality and availability
- Performance and high uptime
- Easy operation, thanks to standard operating process and simple maintenance.

Combine efficiency and intelligent control thanks to the fuse monitor

Available for the ISFL and ISFT FuPacT ranges, the fuse monitor is more than just an accessory. Its protection and monitoring functions makes it indispensable:

- A monitor solution for the range
- Automatic reset of the fuse monitor once blown fuse is replaced
- · Auxiliary contacts for different functions: alarm, tripping of a remote device
- No need of striker fuses, leading to a significant cost reduction



FuPacT GS 32 to 1250 A

Double breaking offer: Switch disconnector fuses

Functions:

- Short-circuit and overload protection.
- Isolation
- On-load switching of circuits



- High level of protection thanks to upstream and downstream double breaking
- Fast opening and closing
- Opening and closing operations occur independently of the operator's action

6|Fu**Pac**T www.se.com



FuPacT ISFT devices

FuPacT ISFT helps you remain competitive in today's market. Its features offer more flexibility in terms of mounting and cabling.

FuPacT ISFT is also the smallest product of the market at just 53 mm width for NH 000 fuse-links (100 A).

Fuse switch disconnectors can be mounted and fixed effortlessly!

- Less stock: FuPacT ISFT range includes turnable hooks to enable downstream or upstream distribution with the same product.
- Save time: less assembling steps. The product can be fixed very quickly for a faster mounting.
- Enhanced safety: the product offers optimized user protection against arc flash.

Snap-on busbar cover

Avoid any risk of coming into contact with busbars

Turnable hooks

- · Allows top or bottom cable outlet
- Faster and flexible mounting on the busbar
- Adapted to 60 mm busbar systems

Designed for secondary switchboards

with busbars



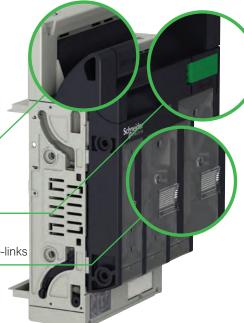
• Protection against electric arcs

Device locking

· Devices can be sealed and locked

Slidable windows

• Enabling independent testing of individual fuse-links





The smallest product on the market ISFT 100N (100 A)



Less space needed (53 mm width instead of standardized 106 mm)

Fu**PacT** ISFT and ISFL combine efficiency and intelligent control and reduce costs:

The fuse monitor provides:

- Precise location and fast correction of short-circuit and overload faults
- No need of strikertype fuses
- Auxiliary contacts for different functions: alarm, tripping of a remote device, etc.
- Automatic reset of the fuse monitor after blown fuse is replaced



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www.se.com FuPacT | 7



More flexibility with FuPacT ISFL

FuPacT ISFL is one of the most efficient vertical fuse switch disconnectors ever designed with a compact form and a modular system.

Thanks to its size, FuPacT ISFL doesn't require extra space for current transformer installation. Its interface is standardized for all types of measurement devices.

Measuring device

 Energy consumption control is feasible by the easy installation of a measuring device

Easy to hook

- Turnable contact hooks available for FuPacT ISFL 160 A 3-pole (60 mm busbars)
- Fast mounting with reduced manual operations
- Adapted to all busbar systems: 60/100/185 mm, present in main switchboards

Designed for main switchboards

Fuse monitor

· Precise location and fast correction of short-circuit and overload faults

Fast connection with variable box terminals

FuPacT ISFL is available in two different versions

- 1-pole switchable dedicated to 185 mm busbars
- 3-pole switchable available for 60/100/185 mm busbars

Same lenght and depth for size 00 (160 A) to size 3 (630 A)



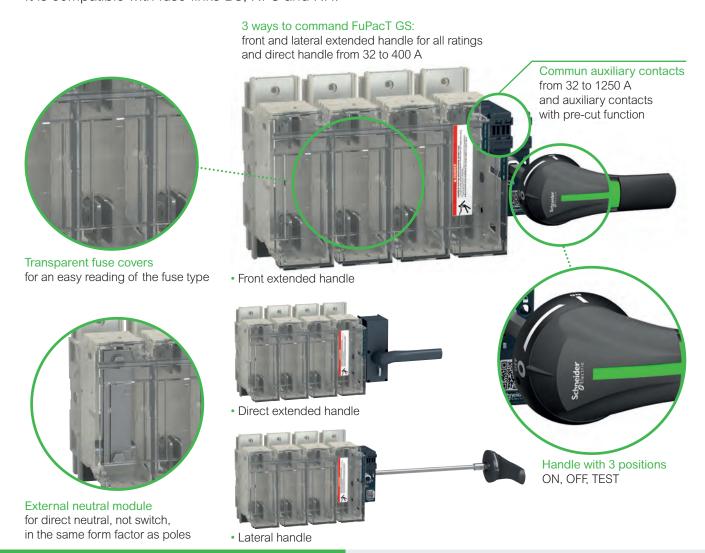
8|Fu**Pac**T www.se.com



High performance thanks to Fu**PacT** GS

FuPacT GS offer provides protection for personnel thanks to its double isolation, upstream and downstream when the switch is open.

It also provides high system availability in buildings, infrastructure and even in industrial plants. It is compatible with fuse-links BS, NFC and NH.



Improve your power distribution with Fu**PacT** GS

- Distribution switchboards.
- Disconnection, isolation, locking and primary control of incoming circuits.
- Categories AC21/AC22 for electrical distribution, AC23 for motor feeders.



Power and control your industrial motors with Fu**PacT** GS

- · Motor starters: DOL, Star-Delta, softstarters.
- · Variable speed starters with frequency converters.
- · Machine types: HVAC units, industrial cranes, hoists.
- Industries: paper, steel, ports, automotive, power, mining, rail, oil & gas.

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Fuse-link offer

Schneider Electric provides a fuse-link offer with NH fuses to a complete solution for our customers.

We offer fuse-links with different curves, available without strikers:



• Fuse-links type aM

Protection of equipment with current peaks like motor applications.



• Fuse-links type gG
Protection of circuits without significant electrical distribution current peaks.

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Functional installation

in Prisma product range

Easy implementation

FuPacT fusegear can be installed on mounting plates or mounted directly on the busbar from 60 to 185 mm.

Easy installation with special components for each type of mounting and clear instructions in accordance with standard working practices.

Multiple combinations in switchboard

FuPacT ISFL devices can be installed in the same rows with all the different ratings.

Same accessories are existing to have the same length and new products have been developed to have same length and depth.

Depending on the rating, 6 to 9 devices can be installed per row.





Simplified distribution in switchboard

FuPacT ISFT100 and 160 can be supplied via feeding busbars connected to the main busbars.

All FuPacT ISFT range (except 630 A rating) can be supplied directly by busbars with connection by hook-on.

Full functional-unit performance

Prisma offers a complete set of mounting plates, front plates and prefabricated connection accessories for FuPacT that helps ensure performance and ease of installation.

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Fu**PacT**

Presentation

2

FuPacT ISFT

Δ

FuPacT ISFL

Е

Fu**PacT** GS

Catalog numbers

> Complementary technical information



LVPED318033EN

> Prisma P



DESW016EN

> Prisma G



DESW015EN

General description of FuPacT fusegear



ISF • fuse-switch disconnectors



ISFT with turnable hooks



GS • switch-disconnector fuses



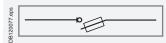
INS switch-disconnectors



FuPacT ISF (ISFT and ISFL)

ISFT horizontal fuse-switch disconnectors and ISFL vertical fuse-switch disconnectors have the following functions:

- on-load switching of circuits. The speed and force of the operation of this type of fusegear are dependent on the action of the operator
- the fuse-link blades form the moving contacts of the switch
- the fuse-links are mounted in a fuse-carrier assembly
- via the handle, the fuse-carriers operate the main moving contacts
- isolation when the fuse-carrier assembly is in the open position (OFF)
- protection against short-circuits and overloads on distribution circuits. This function is provided by DIN blade-type industrial fuse-links (NH).
- possibility for ISFL vertical fuse-switch disconnectors to have a 1-pole or 3-pole variant.
- Turnable contact hooks which is advantage in terms of installation. Possibility to have an upstream or downstream distribution with the same product.



ISF • fuse-switch disconnectors

FuPacT GS (GSC, GSD and GSB)

FuPacT GS switch-disconnector fuses provide the following functions:

- on-load switching of circuits. The speed and force of the operation of this type of fusegear are independent of the action of the operator (fast opening and closing).
- isolation with positive contact indication when the switch is in the open position (OFF). The fuse-link is completely isolated from the power circuit (double breaking
- protection against short-circuits and overloads on distribution circuits. This function is provided by industrial fuse-links (NFC, DIN, BS) used in conjunction with the switch-disconnector fuse device.
- safety or emergency stop (red/yellow rotary handle option).

FuPacT operating modes

The FuPacT range integrates control, isolation and fuse-carrier functions in a single device. These functions can also be implemented by combining separate components.



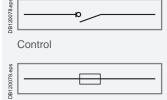
FuPacT GS switch-disconnector fuses

Solutions combining separate components

It is also possible to protect distribution circuits and/or motors by combining switch-disconnectors with fuse-links mounted on separate fuse-carriers.

The functions provided by each component are:

- on-load switching of circuits (opening and closing) and isolation (switch-disconnector).
- protection against overloads and short-circuits (fuse).
- the combination can implement Compact INS or INV switch-disconnectors from 40 to 2500 A.



Protection

General description of FuPacT fusegear

Compliance with standards

FuPacT fusegear complies with international standards and recommendations:

- IEC 60947-1: general rules
- IEC 60947-3: switches, disconnectors
- IEC 60947-5.1 and following: control-circuit devices and switching elements; automatic control components.

These standards and recommendations are applied in most countries. FuPacT fusegear and auxiliaries comply with International standards (IEC 60947-1 and IEC 60947-3).

FuPacT GS and FuPacT ISF• are designed for use with industrial fuse-links complying with the following standards:

- IEC 60269
- BS 88 (only for FuPacT GS)
- DIN 43620 / VDE 0636.

FuPacT GS switch-disconnector fuses are suitable for the control of machine-tools:

- they comply with the requirements of the new machine directive IEC 60204 (EN 60204)
- they comply with French standard NF C 79-130 and the recommendations issued by the CNOMO organisation.

Climatic environment

FuPacT fusegear meets climatic requirements as defined in the following standards:

- IEC 60068-2-30: damp-heat tests under off-load conditions, 95 % relative humidity at 55 °C (hot and humid climate conditions)
- IEC 60068-2-52: salt-mist tests, KB severity 2 tests
- IEC 60068-2-56: damp-heat tests under on-load conditions for 48 hours, environment category C2 following Schneider quality specifications.

The fusegear can therefore be used in all climates.

Degree of pollution

FuPacT fusegear is certified for operation in pollution-degree 3 environments as defined by IEC 60947 standard applying to industrial environments.

Ambient temperature

The FuPacT range can be used between -20 °C and +70 °C. Above 40 °C, you will have to take account of the derating indicated in the documentation.

The devices must be commissioned at the ambient temperature indicated above. The FuPacT range must be stored in its original packaging at a temperature between -50 °C and +85 °C.

Degree of protection

For FuPacT fusegear with terminal shield, the degree of protection against direct contact complies with standard IEC 60529 (IP index of protection) and IEC 62262:

- with direct rotary handle: IP20/IK07
- with extended rotary handle (FuPacT GS): IP65/IK10
- with extended rotary handle and padlocks: IP65/IK08.

Positive contact indication

IEC 60947-3 standard defines isolation with positive contact indication as follows:

- the isolation position corresponds to the O (OFF) position
- the operating handle cannot indicate the OFF position unless the main contacts are not totally opened
- locking in the OFF position is not possible unless the main contacts are actually open.

GS• switch-disconnector fuses are suitable for isolation with positive contact indication.

Installation of an extended handle on GS• fusegear does not alter the suitability for isolation

The isolation with positive contact indication function is certified by testing:

- the mechanical reliability of the position-indication system
- the absence of leakage currents
- overvoltage withstand capacity between upstream and downstream connections.



ISFT label



Fusegear with terminal shields IP20 and IK07



Fusegear in an enclosure or cabinet (extended handle);

GS• only. IP65 and IK10.



Positive contact indication





ISFT100N



ISFT100



ISFT160



ISFT250 ISFT400 ISFT630

FuPacT ISFT

Functions and characteristics

Fu PacT ISFT100N to ISFT630	A-4
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Fu**PacT** ISFT

Installation recommendations

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Fu**PacT** ISFT

Dimensions and connection

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FuPacT GS
Catalog numbers

Fuse switch-disconnector selection FuPacT ISFT100N to ISFT630



ISFT100N



ISFT100



ISFT160



ISFT250-400-630

			IEC 60269	-2-1	Section 1
Number of poles / type of fuse-link Electrical characteristics as	defined by	IFC 6			
Conventional thermal current (A)	In free air	Ith	at 40 °C	ILO	00347-3
onventional thermal current (x)	Maximum fuse p			W)	
	In enclosure	Ithe		,	
	Maximum fuse p	ower	dissipation (\	W)	
Rated insulation voltage (V)		Ui	AC 50/60 H	,	С
Rated impulse withstand voltage (kV)		Uimp)		
Rated operational voltage (V)		Ue	AC 50/60 H	Ηz	
			DC		
Rated operational voltage AC20 and D	C20 (V)	Ue			
Rated operational current (A)		le	AC 50/60 F		
				0/240	
				0/415	
				0/480) \ \ [1]
				0 V	N./
				0/690	
			DC/poles in		no. of poles
					no. of poles
Rated duties		Unint	errupted du		
Breaking Capacity with Fuses (kA RMS)		Iq		-,	415 V AC
meaning dapasity with a doos (to trivile)		.4			500 V AC
					690 V AC
Short circuit making capacity (kA peak) / Fuse nominal	lcw (1s) / lcm / ln	1	415 V
current (A)		fuse	•		500 V
Switch-disconnector with fuse protection	on (fuse link) [2]				690 V
Endurance (category B) (CO cycles)			Mechanica	al	
			Electrical A	AC.	AC22B 415 V
					AC23B 415 V
					AC22B 500V
					AC21B 500V
					AC22B 690V
Suitability for isolation					AC21B 690 V
Positive contact indication					
Pollution degree					
Control					
Direct front rotary handle (operator-dep		and cl	losing)		
cocking	Padlocks				
	Lead seal				
ndication auxiliaries					
Auxiliary contacts					
Fuse monitor					
nstallation and connection	accessories	5			
Possible mounting positions	Horizontal				
0.1	Vertical				
Bare cable connectors					
Other connectors	For bare Cu/Al o	ahlee			
Zuloi solilicotors	For flexible bars				
Notribution connectors	1 OF HEADINE DATS				
Distribution connectors					
ugs for copper cables					
ncoming connector for feeding busbar	rs				
erminal shields					
Dimensions and weight					
		0.0			
Overall dimensions H x W x D (mm)		3P			

[3] AC23B 160A [4] AC23B 250 A. [5] AC23B 400 A. [6] AC23B 630 A.

Fuse switch-disconnector selection FuPacT ISFT100N to ISFT630

ISFT100N		ISFT1	00	ISFT1	60	ISFT2	50	ISFT4	100	ISFT	30	
3P/DIN (NI		3P/DIN (N		3P/DIN (N		3P/DIN (NI		3P/DIN (N	H)	3P/DIN (N		
2.72(14	,	7 (11	,	7 51.7 511.7 (11	,	122(14)	,	22(14	,	22(14	,	
100		100		160		250		400		630		
9		9		12		23		34		48		
100		100		160				400		630		
9		9		12		23		34		48		
1000		690		1000		1000		1000		1000		
6		6		8		8		8		8		
690		690		690		690		690		690		
440		440		440				440		440		
800		800		800		440		800		800		
AC21B	AC22B	AC21B	AC22B	AC21B	AC22B	800 AC21B	AC22B	AC21B	AC22B	AC21B	AC22E	
100	100	100	100	160	160 ^[3]	250	250 ^[4]	400	400 ^[5]	630	630 ^[6]	
100	100	100	100	160	160 [3]	250	250 [4]	400	400 [5]	630	630 [6]	
100	100	100	100	160	160	250	250	400	400	630	630	
			-									
100	100	100	-	160	160	250	250	400	400	630	630	
100 DC21B	- DOOOD	100	- DCCCD	160	-	250	250 DC22B	400 DC21B	400	630 DC21B	630 DC22I	
	DC22B	DC21B	DC22B	DC21B	DC22B	DC21B			DC22B	_	_	
100/3	100/3	100/3	-	160/3	160/3	250/3	250/3	400/3	400/3	630/3	630/3	
100/3	100/3	100/3	1-	125/3	-	250/3	-	400/3	-	630/3	1-	
•		0		•		0		0		•		
80		80		80		80		80		80		
80		80		80		80		80		80		
25	÷	25		25	â	25		25	*	25	÷	
3.6kA/5.2k		3kA/4.4kÂ		5kA/7.65k		8.6/14.6kÂ		15.2/30.4		20.4/42.4		
3.6kA/5.2k		3kA/4.4kÂ		5kA/7.65k		8.6/14.6kÂ/250A			15.2/30.4kÂ/400A		kÂ/630A	
3.6kA/5.2k	Á/100A	3kA/4.4kÂ	/100A	5kA/7.5kÂ	/160A	8.6/14.6kÂ	/250A	15.2/30.4k	Á/400A	20.4/42.4	kA/630A	
2000		2000		1600		1600		1000			1000	
300		300		200		200		200			200	
300		-		200		200		200		200		
300				200		200		200		200		
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300		300		200		200		200		200		
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lo.		10		10						10		
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		I.o.		I.o.		I.o.		I.o.		Lo		
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216 x 53 x 8	30	141 x 89 x	71	206 x 106 x	x 80	306 x 184 x	110	306 x 210 x	k 130	306 x 250 x	x 130	
0.54		0.46		0.60		2.00		2.00		3.50		

A-5

Fuse switch-disconnector selection FuPacT ISFT100N to ISFT630



ISFT100N



ISFT100



ISFT160



ISFT630

Fuse switch-disconnectors

Type of fuse-link

DIN/NH000 DIN/NH00 DIN/NH1 DIN/NH2 DIN/NH3

Installation and connection

Symmetrical rail

Direct connection on backplate

Hook-on connection to 60 mm busbars

Tightening torque (Nm)

Temperature derating (with gG fuse-link)[1][2]

tomportation and analyge transportation,		
"Vertical mounting"	Ith (A)	40 °C
fuse-links in vertical position		45 °C
		50 °C
		55 °C
		60 °C
		65 °C
		70 °C
"Horizontal mounting"	Ith (A)	40 °C
fuse-links in horizontal position		45 °C
		50 °C
		55 °C
		60 °C
		65 °C
		70 °C
Degree of protection (from the front face and inclosed position)		IP3X
Mechanical shock		IK07

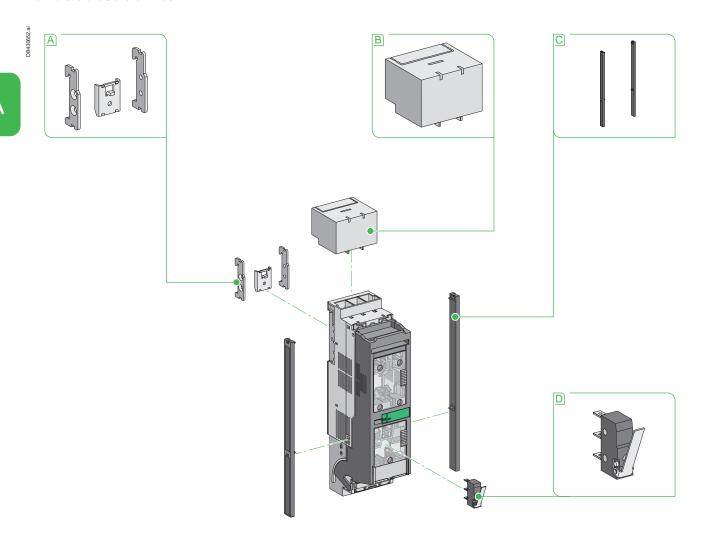
- [1] Derating data is based on:
 the maximum rating for fuse-links intended for the device,
 - maximum power dissipation.
- [2] For installation on a ceiling, derate an additional 10 %.

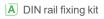
Fuse switch-disconnector selection FuPacT ISFT100N to ISFT630

ISFT100N	ISFT100	ISFT160	ISFT250	ISFT400	ISFT630
•	•	-	-	-	-
-	-	•	-	-	-
-	-	-	•	-	-
-	-	-	-	•	-
-	-	-	-	-	•
•	•	-	-	-	
	•	•	•	•	•
<u></u>	-	•	0	•	-
see page A-31	•	10			•
100	100	160	250	400	630
95	95	152	238	380	599
90	90	144	225	360	567
85	85	136	213	340	536
80	80	128	200	320	504
75	75	120	188	300	473
70	70	112	175	280	441
100	100	160	250	400	630
95	95	152	238	380	599
90	90	144	225	360	567
85	85	136	213	340	536
80	80	128	200	320	504
75	75	120	188	300	473
70	70	112	175	280	441
•	•	•	•	•	•
•	•	•	•	•	•

Accessories and auxiliaries FuPacT ISFT100N

FuPacT ISFT100N

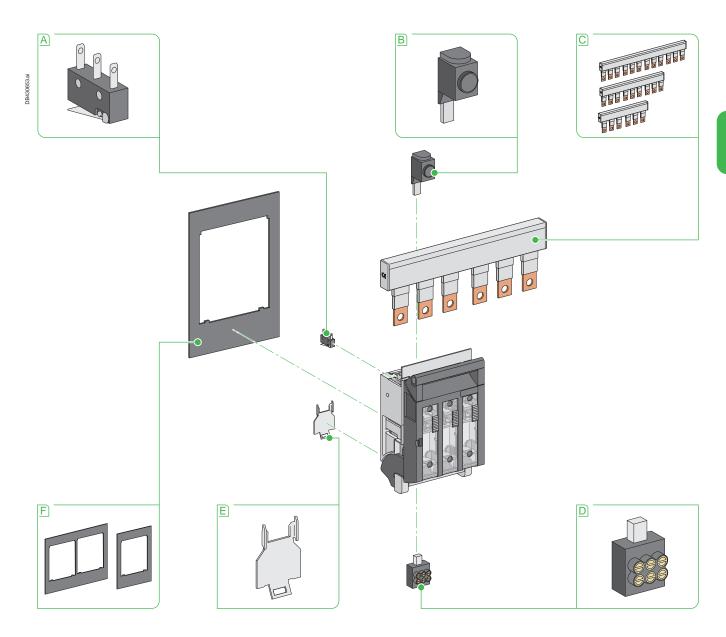


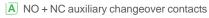




- C Laterally attachable support profile
- D NO + NC auxiliary changeover contacts

Accessories and auxiliaries FuPacT ISFT100

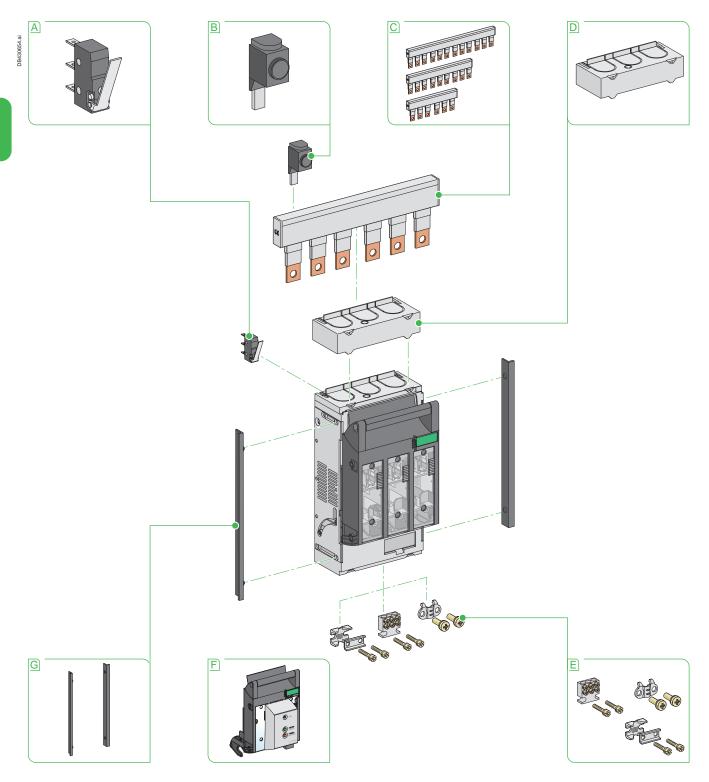




B Incoming connector for feeding busbars

- **©** Feeding busbars to supply :
 - 2 devices
 - 3 devices
 - 4 devices
- Distribution connector
- E Accessory for mounting on DIN rail
- **F** Escutcheons for:
 - 1 device
 - 2 devices

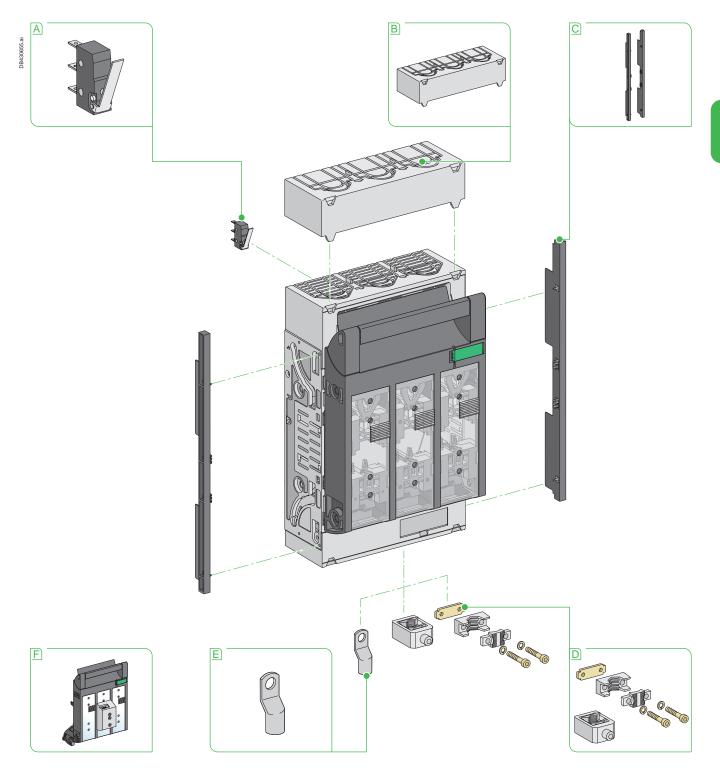
Accessories and auxiliaries Fu**PacT** ISFT160



- A NO + NC auxiliary changeover contacts
- B Incoming connector for feeding busbars
- **©** Feeding busbars to supply :
 - 2 devices
 - 3 devices
 - 4 devices
- D Long terminal shield

- E Connectors for :
 - bare cable
 - distribution
 - flexible bar
- F Fuse monitor
- **G** Laterally attachable support profile

Accessories and auxiliaries Fu**PacT** ISFT250 to ISFT630



- A NO + NC auxiliary changeover contacts
- **B** Long terminal shield
- C Laterally attachable support profile
- D Connectors for bare cable
- E Lug for copper cable
- F Fuse monitor

General characteristics: ISFT FuPacT ISFT100N to ISFT630

Α









FuPacT ISFT offers innovative solutions

The FuPacT ISFT is a modern approach to power distribution with modular switchgear that is simple to install and reliable.

On the FuPacT ISFT the entire covers can easily be removed while the switching cover remains closed, thus eliminating the need for elaborate trim frames and extensions.

Integrated hand protection and a sliding viewing window enable voltage tests to be conducted on contact blades or strap handles. FuPacT ISFT offers two types of cable connection: cable lug or clamp connector for copper or aluminum conductors. All FuPacT ISFT can be sealed and fitted with a locking mechanism. FuPacT ISFT also provides a patented system of turnable hooks for converting the outgoing arrangement from top to bottom and vice versa. The fuse-switch-disconnectors can be attached, positioned and tightened effortlessly.

Smallest 100 A solution on market: ISFT100N

FuPacT ISFT offers two sizes for 100 A rating.

- Basic (without connection on busbar system), with a width of 106 mm.
- Narrow, which is the smallest 100 A solution on the market (connection on busbar system possible), with a width of 53 mm.

Objectives of this product is to reduced installation space and to propose two 100 A (106 mm width) replace one 160 A product (106 mm width also).

FuPacT ISFT for mounting on base plates

The disconnectors for mounting on base plates, sizes 000, 00, 1, 2 and 3, come with a number of predrilled fastening holes that allow these models to be used on base plates or on profiles. With the appropriate accessories, the sizes 000 and 00 can be mounted on DIN rail.

Accessories

Support Profile Laterally attachable

This accessory allows to enlarge the cut-out tolerances of the cover plates while also supporting these plates.

- Latchable bracket on the side.
- Allows greater cutting tolerances.

Switching cover position indicator:

1 close contact and 1 open contact.

Intelligent measurement

Electronic Fuse-Monitoring - Everything under control

Thanks to the electronic Fuse Monitor, technician could receive an information to localize a short circuit or overload. Maintenance will be more reactive to change fuse which is broken.

FuPacT ISFT range from size 00 to 3 has an electronic fuse monitor The electronic fuse monitor is directly attached to the switching cover.

This installation depth is 28 mm.

A light-emitting diode starts blinking red the moment the fuses fail. A test button and a 4-pole connector for remote indication are attached to the housing.

Note: for more technical informations, see page A-22.

General characteristics: ISFT FuPacT ISFT100N to ISFT630

Safety

FuPact ISFT provides:

- Protection against accidental contact in the standard model:
 - □ terminal housing closed
 - □ simple break-out for all versions
 - $\hfill\Box$ terminal shield needed for specific application (> 500 V)

 - □ life part are covered.
- Switching with integrated and extended hand protection feature:
 - □ prevents fuse-unit contact
 - protection against electric arc.
- Voltage test thanks to independent slidable windows
- Snap-on busbar cover to protect against direct contact.
- Locking cover with sealing facility:
 - □ locking mechanism for switching cover for non-instructed individuals
 - □ switching cover is sealable.

Fast connection thanks to box terminals

For FuPacT 160 A size 00

- Advantageous box terminals:
 - □ Cu conductor from 2,5 to 95 mm²
 - no cable lug needed.
- Or universal screw terminal for M8 cable lug.

Options

- Prism clamp 6...70 mm². Cu/Al.
- Terminal 3 x 16 mm².

For FuPacT 250 to 630 A sizes 1-3

- The standard version:
- □ size 1 and 2 for M10 cable lug
- □ size 3 for M12 cable lug.
- Easy to change the various types of connection.

Options

- Prism clamp for Cu.
- Prism clamp for Cu/Al (1x cable).
- Prism clamp for Cu/Al (2x cables).

Turnable contact hooks

FuPacT ISFT is the first horizontal fuse switch-disconnector to propose turnable contacts hooks. This makes it easier to mount FuPacT ISFT on the busbar in addition to being more flexible. Due to its symmetry, FuPacT ISFT can be turned around at any time. Terminal top or bottom can be choosen freely. Thus, only one version needs to be stored.

- One universal solution for top or bottom cable outlet.
- Reduced stock.
- Universal to busbar thickness.
- More installation flexibility.











ISFT installation FuPacT ISFT100N to ISFT630

ISFT fusegear is installed on a mounting plate, DIN rail or on busbars, depending on the power rating. Connections are made via cables or directly to the busbars via hook-on.



ISFT100N (hook-on connection)



Hook-on connection to busbars: the device tightly hooks on to the busbars via three hooks that allows for both electrical connection and performant mechanical mounting. The connection systems can also be reversed to supply distribution circuits via the upstream terminals.

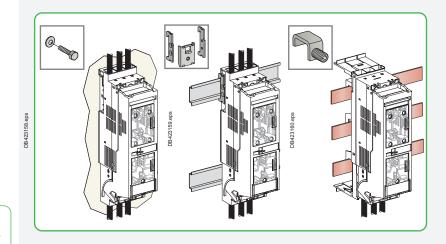
This system allows direct contact of the power circuit to the busbars (no cables, no bars, no drilling, etc.) and usual connections for downstream distribution (bare cable connectors, lugs, bars, distribution connectors, etc.).

ISFT100N fusegear

Installation on a mounting plate, on busbars 60 mm or DIN rail on busbars with:

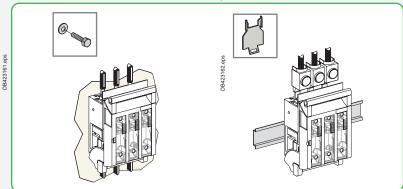
- cables or flexible bars
- hook-on connection to 60 mm busbars.

Upstream or downstream connection of distribution circuits requires cables or flexible bars.



ISFT100 fusegear

Installation on a mounting plate or symmetrical DIN rail. Power and distribution circuit connections require cables and built-in connectors.



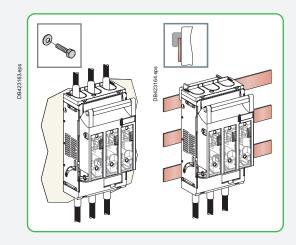
ISFT installation Fu**PacT** ISFT100N to ISFT630

ISFT160 fusegear

Installation on a mounting plate or on busbars with:

- cables or flexible bars
- hook-on connection to 60 mm busbars

Downstream connection of distribution circuits requires cables or flexible bars.

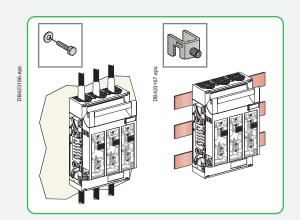


ISFT250 to ISFT630 fusegear

Installation on a mounting plate or on busbars with:

- ables or flexible bars
- hook-on connection to 60 mm busbars (except ISFT630)

Downstream connection of distribution circuits requires cables or flexible bars.





Hook-on connection (ISFT250 and 2 x ISFT160)

Connection and accessories FuPacT ISFT100N to ISFT630 - Connection

FuPacT fuse-switch disconnectors can supply distribution circuits via either the upstream or downstream terminals. Devices intended for connection to busbars are configured as standard for distribution via the downstream terminals.

ISFT fusegear is equipped with connectors or terminals for front connection of:

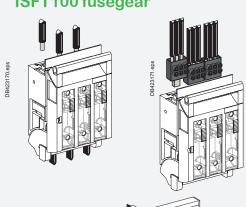
- bare cables for ISFT100N to ISFT160 devices
- cables with lugs for ISFT160 to 630 devices
- flexible bars for ISFT160 to 630 devices.

	ISFT100N	ISFT100	ISFT160	ISFT250	ISFT400	ISFT630		
Cables								
Connector	2.5 to 50 mm ²	1.5 to 50 mm ²	-					
Lug to terminal	-	-	120 to 185 mm ² 120 to 300 mm ²					
Connector to terminal	-	-	2.5 to 95 mm ²	6 to 150 mm ²	6 to 240 mm ²			
box clamp re/se			6 to 50 mm ²	35 to 150 mm ²	95 to 300 mm ²			
rm/sm			6 to 25 mm ²	50 to 150 mm ²	120 to 300 mm ²			
Presure Plate								
Connector	-	-	6 to 70 mm ²	70 to 150 mm ²	120 to 240 mm ²	150 to 300 mm ²		

ISFT100N fusegear



ISFT100 fusegear







Distribution connector

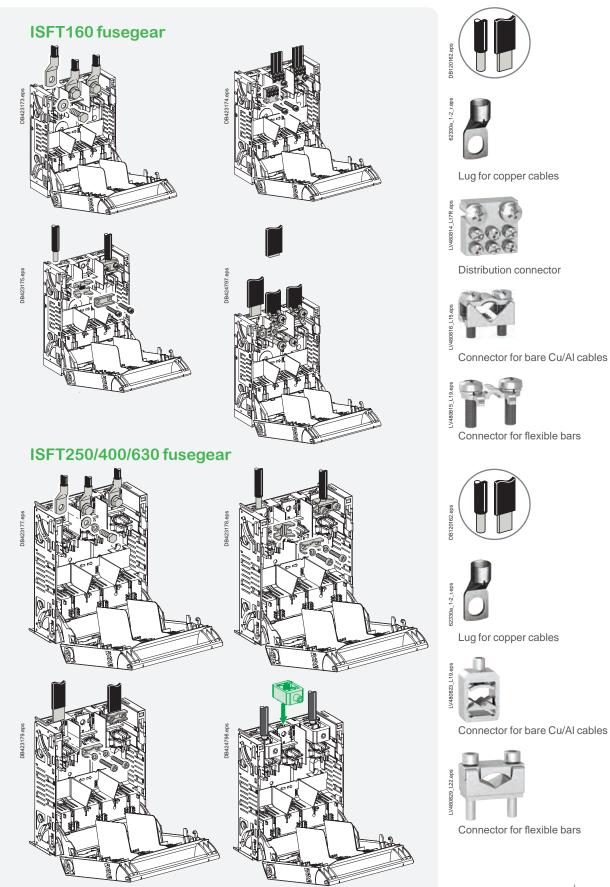


Incoming connector for feeding busbar



Feeding busbar

Connection and accessories FuPacT ISFT100N to ISFT630 - Connection



Connection and accessories FuPacT ISFT160 to ISFT630 - Reverse distribution

FuPacT fuse-switch disconnectors designed for connection to busbars supply distribution circuits via the downstream terminals as standard. In the case of ISFT160 to ISFT630 devices, simple installation operations allow power to be supplied to the distribution circuits from upstream. In the case of ISFT100N devices, the method of distribution cannot be reversed simply by changing the direction of the mounting. There are separate references for each particular case.



Hook-on connection: the orientation of the hooks on the busbars is always the same, whether the distribution circuits are connected to the upstream or downstream terminals. The fuse-switch disconnectors must physically hang on the busbars.



Symmetrical slots on the side of the base make it possible to raise and lower the cover that forms the fuse-carrier.

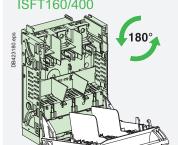
To reverse supply, depending on the model, simply turn 180°:

- either the base with its connection kit
- or the connection kit alone.

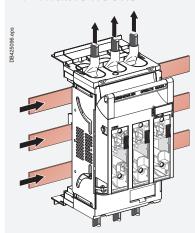
For fusegear with a fuse monitor, the fuse monitor cover must be changed given that different versions are used depending on whether supply is via the upstream or downstream terminals.

Operation to reverse supply (upstream/downstream terminals)				
		180° rotation		Change
		Base	Turnable hooks	Fuse monitor cover
		DB401353.eps	DB401355.eps	DB425101.eps
	ISFT160 to 400	yes	yes	yes
	ISFT630	yes	no	yes
	ISFT160	yes	-	yes
	ISFT250	yes	-	yes

Fusegear with hook-on connection



Turnable hooks



Connection and accessories FuPacT ISFT100 and ISFT160 - Connection, coupling

It is possible to supply several ISFT100 and ISFT160 fusegears by using feeding busbars via a single incomer.

Supplying a several of devices via feeding busbars

Incoming connectors are used for the upstream power cables.

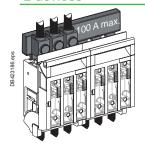
Power is distributed to the other devices via feeding busbars or a combination of feeding busbars.

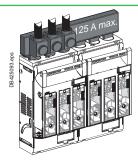
Downstream connection of distribution circuits is done via cables.

SET100

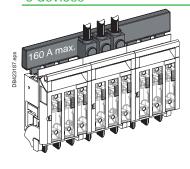
SFT160

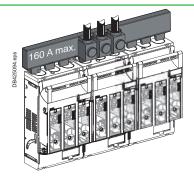
2 devices



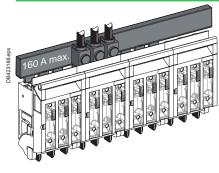


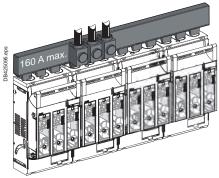
3 devices





4 devices





Combinations:

- 2 devices:
- □ 1 incomer for 2 outgoers
- 3 devices [1]:
 - □ 1 incomer for 3 outgoers
- 4 devices [1]:
 - □ 1 incomer for 4 outgoers.

If the feed is connected at the center of the busbar, the total outgoing current of each busbar branch must not exceed the maximum busbar current per phase.

[1] For combinations of more than 2 ISFT100 devices, it is recommended to connect incoming power to the second device to reduce temperature rise.

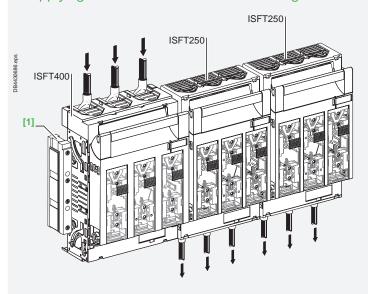
Feeding busbars	
Maximum operating voltage	690 VAC
Insulation coordination	overvoltage category III / pollution degree 2
Busbar cross-section	35 mm ²

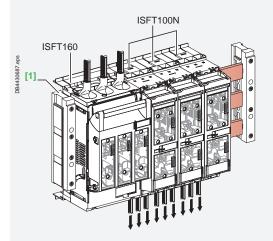
The maximum current per phase when the feed is connected to a busbar extremity is 125 A. The maximum current per phase when the feed is connected at any busbar position is 160 A.

Connection and accessories FuPacT ISFT100N, ISFT160 to ISFT400 -Different installation systems

Many connection and supply possibilities

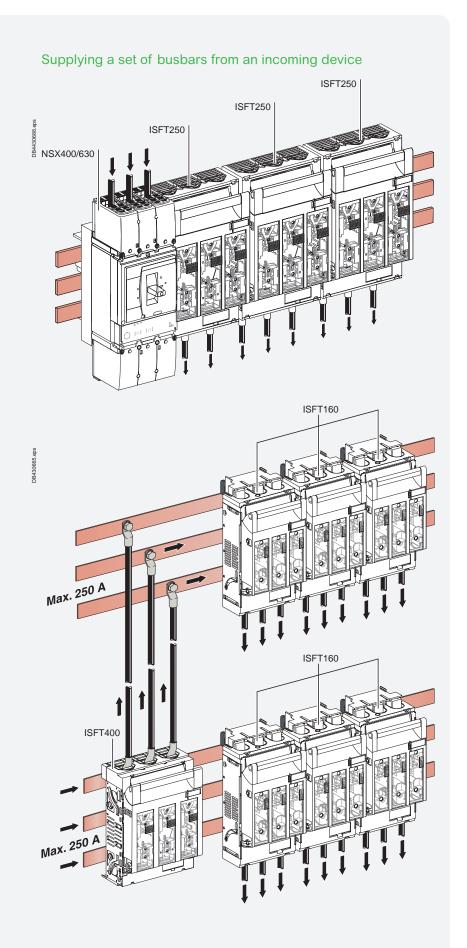
Supplying a set of busbars from an incoming device





[1] Linergy BZ busbar system: for more technical informations, see page D-6.

Connection and accessories FuPacT ISFT100N, ISFT160 to ISFT400 Different installation systems



Fuse monitor FuPacT ISFT160 to ISFT630



ISFT160 fuse monitor

Functions

This device provides remote indication of the status of standard fuses (without strikers). It serves to:

- it signals a blown fuse
- it helps prevent the risks of abnormal voltages on the neutral.

Standards

- Compliance with international standard IEC 60947-5-1.
- Compliance with:
 - □ EN 50204
 - □ EN 61000 for electromagnetic compatibility (EMC).

Description

- Characteristics:
 - □ operation with DIN fuses.
 - □ degree of protection: IP20.
- May be used on capacitor bank circuits.
- Simplified power supply:
 - □ does not require a specific power supply
 - □ operates with unbalanced phases
 - $\hfill \square$ supplied via connection to the fuse terminals on the fusegear devices
 - □ operational voltage: 400...690 V AC, ±10 %, 50/60 Hz.
- Tested for electromagnetic compatibility (EMC).
- Mounting:
 - connected to the fuse-carrier assembly forming the cover.
- The package consists of:
 - □ a fuse-carrier/handle and fuse monitor sub-assembly supplied as a kit composed of:
 - fuse monitor equipped with one NO contact and one NC contact
 - fuse-carrier with the handle
 - □ the customer must remove his fuse-carrier/handle assembly from his product and replace it with this kit.
- Characteristics:
 - □ IP20 degree of protection
 - product with fuse monitor must be integrated inside switchboards and not in front face in case of customers wants to have a complete class II insulation.
 Class II insulation with switchboard in front face is effective only when FuPacT ISFT is in closed position and with a door or a protection behind the fuse monitor.

Operation

Reset

The device is automatically reset when the fuse-links are replaced.

Indications

- Normal operation:
 - □ the green LED is ON when voltage is present at the fuse terminals
 - ☐ the contacts are in the rest position.
- Operation when a fuse blows:
 - □ the green LED goes off and the red LED goes on
 - □ the contacts are actuated:
 - the NO contact is for remote fault indication
 - the NC contact may be used, for example, to control an undervoltage device in order to shut down equipment that may be sensitive to single-phasing.

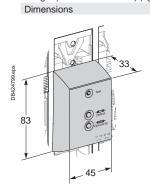
> FuPacT ISFT160 to 630 fuse monitor Instruction sheet



NVE88766

Fuse monitor FuPacT ISFT160 to ISFT630

Electrical characteristics							
Power circuit							
Rated operational voltage		400 to 690 \	400 to 690 V AC 50/60 Hz ±10 %				
Consumption							
Rated frequency		50/60 Hz					
Measurement impedance		> 1000 Ω/V					
Rated impulse withstand voltage (1.2 / 50 μs)		8 kV					
Auxiliary contact output terminals							
Terminal indications	NO	13 - 14					
Terrifications	NC	21 - 22					
Cable capacity	Flexible	≤ 1.5 mm ² C	tu				
Cable capacity	Rigid	≤ 2.5 mm ² C					
Output contact characteristics (1NO + 1N							
Conventional thermal current Ith (A)	,	5					
Rated insulation voltage (V)		250					
Minimum load		10 mA at 24	. V				
Characteristics		AC		DC			
Utilisation category (IEC 60947-5-1)		AC12	AC15	DC12	DC13		
Operational current (A)	24 V	-	3	-	2		
oporational outroit (7.)	48 V		3	_	-		
	110 V	_	3	-	_		
	220/240 V	_	3		_		
	250 V	_	3	-	_		
	380/415 V	-	-	-	_		
	440 V	_	-	-	_		
	660/690 V	-	-	-	-		
Rated operational voltage / max. breaking voltage (VAC)	250/440	250/440				
Breaking capacity (VA)	,	2000	2000				
General characteristics							
Operating temperature range (°C)		-25 +55 (<	-25+55 (≤ 500 V)				
Storage and transport temperature range (°C)		-40+70					
Fuse blowing detection time (s)			<2				
Overvoltage category / degree of pollution			IEC 60947-1 3				
Dielectric test voltage (between power circuit and output	terminals)		5 kV rms / 1 min 50 Hz				
Electromagnetic compatibility - emission		To KV IIIIO/ I					
Conducted	•	EN 55022 C	lass R				
Radiated			EN 55022 Class B				
Harmonic currents			EN 55022 Class B EN 61000-3-2 Class A				
Electromagnetic compatibility - immunit	v.	1211010000	2 0143371				
Electrostatic discharge (ESD)	у	EN 61000 4	2 actogony P lovel	2/2			
			EN 61000-4-2 category B level 2/3				
Radiated field susceptibility (RF) Surge immunity test			EN 61000-4-3 category A level 3				
Conducted low energy susceptibility (EFT)			EN 61000-4-5 level 4 EN 61000-4-4 category B level 3				
Conducted low energy susceptibility (EFT) Conducted high energy susceptibility (RF)			EN 61000-4-4 category B level 3 EN 61000-4-6 category A level 3				
Radio-frequency interference (GSM)			ENV 50204 category A				
		LIVV 30204	outogory A				
Magnetic field immunity Continuous		EN 64000 4	9 lovel 5				
		EN 61000-4	-o ievel o				
Mechanical characteristics							
Degree of protection		IP20					
Weight (fuse monitor alone) (kg)		0.2					
Dimensions							



Insulation

FuPacT ISFT100N to ISFT630

Some accessories for insulation are used to prevent direct contact with the main circuits.

For ISFT100, we have single and double escutcheon (with 1 free slot). These escutcheons, which could be used in combination, allow one type of cut-out on the front panel of switchboard. But in case of feeding busbars, The use of escutcheon is not compliant with feeding busbars.

For ISFT100N and ISFT160 to 630, side profiles (or laterally attachable) provide vertical IP level across the door. The switchboard manufacturer must provide the horizontal IP.

For those products, it's mandatory to use terminal shield when voltage is upper or equal to 500 V.

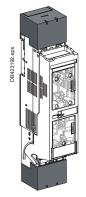
Insulation of live parts

Escutcheon

Clipped on the device, escutcheons provide IP20 and IK07 degrees of protection.

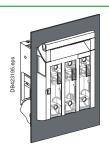
Туре	Escutcheon type			Terminal shield
ISFT100N	•	-	-	O
ISFT100	-	•	•	-
ISFT160	•			•
ISFT250	•			•
ISFT400	•			•
ISFT630	•			•

ISFT100N fusegear - Terminal shield and escutcheon

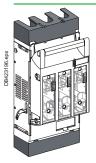


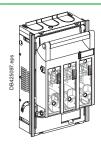


ISFT100 fusegear - Escutcheon



ISFT160 to ISFT630 fusegear - Terminal shields and escutcheon







S

Terminal shields



Escutcheon



Laterally attachable support profile

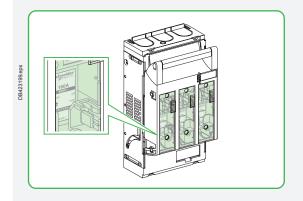
A-24



Fuse-link monitoring and testing Fu**PacT** ISFT160 to ISFT630

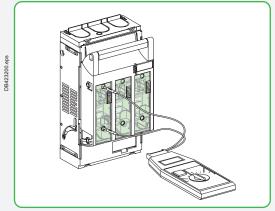
Monitoring

ISFT 160 to 630 fuse-switch disconnectors are equipped with independant large windows so that the fuse-link technical characteristics are clearly visible.





Testing



Independant sliding covers on the front panel provide access to the fuse-link status test points while maintaining the IP20 protection index.



Control, locking and operation FuPacT ISFT100N to ISFT630

The main moving contacts are controlled by the pivoting fuse-carrier assembly forming the cover for the ISFT devices In open position, the fuse-switch disconnector fuse-carrier assembly provides isolation with visible break.





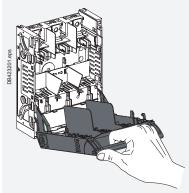
Access to the fuse-links:

■ may be provides by lead seals on the ISFT devices

To lock the fuse-switch disconnector in closed (ON) position, the fuse-carrier is equipped as standard with a locking part.

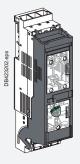


Control

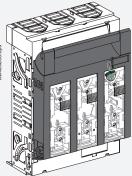


Locking





Lead-seal locking for the ISFT100N



Lead-seal locking for the ISFT100 to ISFT630

Locking in open (OFF) position isolation as defined by IEC 60947-3.

Туре	Function	Means	Accessory
ISFT100N ISFT100 ISFT160 ISFT250 to ISFT630	Device locking in closed (ON) position	Lead seal	Built-in

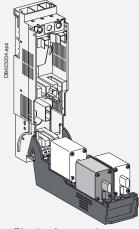
Control, locking and operation FuPacT ISFT100N to ISFT630

For ISFT fusegear devices, the fuse-carrier cover is used both to control the device and to protect the fuse-link.

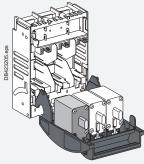
- ISFT100N: the pivoting fuse-carrier assembly accepts two fuse-links side by side and a third situated under the first two fuse-links.
- ISFT100 to ISFT630: the pivoting fuse-carrier assembly accepts the three fuse-links side by side.

Fuse-carriers

Compatibility between ISFT fuse-switch disconnectors and fuse-links (NH)



Pivoting fuse-carrier assembly for the ISFT100N



Pivoting fuse-carrier assembly for the ISFT100 to ISFT630 devices

Type of DIN fuse-link	NH000	NH00	NH1	NH2	NH3
ISFT100N	•	-	-	-	-
ISFT100	O	-	-	-	-
ISFT160	-	•	-	-	-
ISFT250	-	-	•	-	-
ISFT400	-	-	-	•	-
ISFT630	-	-	-	-	•

Insertion and removal of fuse-links

Fuse-links are held in place by clips behind the front panel of the fuse-carriers, thus making removal possible without touching the fuse-links.

Auxiliary contacts and indications FuPacT ISFT100N to ISFT630

The optional auxiliary contacts carry out indication functions.

They provide remote indication of the fuse-switch disconnector status. They may also be used to indicate and carry out automatic functions such as electrical interlocking.

Standards: compliance with international recommendation IEC60947-5-1. Description: NC/NO changeover contact.

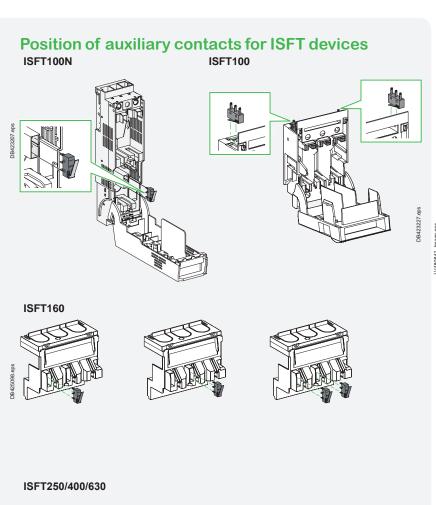
Functional table of contact status

	Auxiliary changeover contact					
	41	Maximum number				
	2					
ISFT100N	(a)	1				
ISFT100	(a)	2				
ISFT160	o	2				
ISFT250	(a)	2				
ISFT400	(a)	2				
ISFT630	•	2				

Auxiliary changeover contact for ISFT100N and ISFT160						
Conventional thermal current Ith ((A)	2				
Rated insulation voltage (V)		250				
Minimum load		100 mA at 24 V				
		AC		DC		
Load		AC12	AC15	DC12	DC13	
Rated operational current (A)	24 V	6	-	3	-	
	48 V	6	-	1	-	
	110 V	6	-	0.5	-	
	220/240 V	6	-	0.25	-	

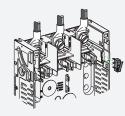
A							
Auxiliary changeover contact for ISFT100 and ISFT250 to 630							
Conventional thermal current Ith	(A)	2					
Rated insulation voltage (V)	250						
Minimum load	100 mA at	100 mA at 24 V					
		AC		DC			
Load		AC12	AC15	DC12	DC13		
Rated operational current (A)	24 V	2	-	0.2	-		
	48 V	2	-	0.2	-		
	110 V	2	-	0.2	-		
	220/240 V	2	-	0.2	-		

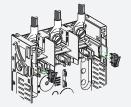
Auxiliary contacts and indications Fu**PacT** ISFT100N to ISFT630



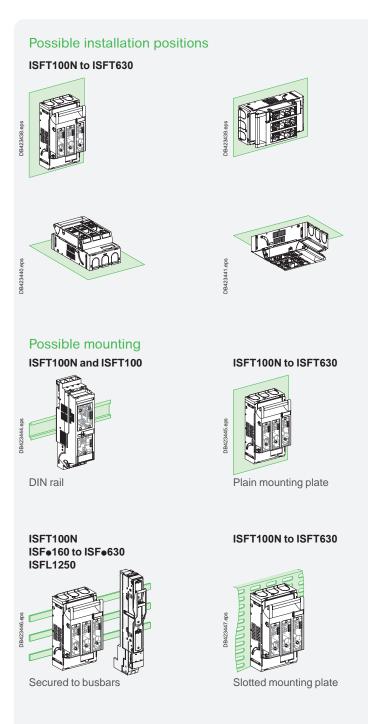








Possible installation positions and mounting Fu**PacT** ISFT100N to ISFT630



Implementation and power dissipation FuPacT ISFT

Reverse supply

FuPacT fusegear may be supplied equally well via the upstream or downstream terminals, without any reduction in performance.

Conductor materials and electrodynamic forces

FuPacT fusegear may be connected using either bare copper, tinned copper or tinned aluminium conductors (flexible or rigid bars, cables).

In the event of a short-circuit, thermal and electrodynamic forces are exerted on the conductors. The conductors must therefore be adequately sized and suitably supported.

Note that the terminals of electrical devices (switch-disconnectors, contactors, circuit breakers, etc.) should not be considered to contribute to the support of the conductors.

Cable ties and flexible bars

The table below indicates the maximum distances between cable ties depending on the prospective short-circuit current.

Care must be taken not to exceed a distance of 400 mm between ties mechanically fixed to the switchboard frame.

Type of tie	"Panduit" type		"Sarel" type					
	Width: 4.5 mm		Width: 9 mm					
	Max. load: 22 kg		Max. load: 90 kg					
	Color	: white		Color	black			
Max. distance between ties (mm)	200	100	50	350	200	100	70	50 (double ties)
Short-circuit current (kA rms)	10	15	20	20	27	35	45	100

Note: for cables ≥ 50 mm², 9 mm wide ties must be used.

Tightening torque for ISFT with screw connection

	Туре	Torque (Nm)
ISFT	ISFT100N mounted on backplate with connection terminals	4.5
	ISFT100N with hook-on connection to 60 mm busbars	4.5
	ISFT100 mounted on backplate with connection terminals	3
	ISFT160 mounted on backplate with connection terminals	12
	ISFT160 with hook-on connection to 60 mm busbars	12
	ISFT250 mounted on backplate with connection terminals	20
	ISFT250 with hook-on connection to 60 mm busbars	20
	ISFT400 mounted on backplate with connection terminals	20
	ISFT400 with hook-on connection to 60 mm busbars	20
	ISFT630 mounted on backplate with connection terminals	20

Implementation and power dissipation Fu**PacT** ISFT

Power dissipated by ISFT fuse-switch disconnectors

Power dissipated per pole

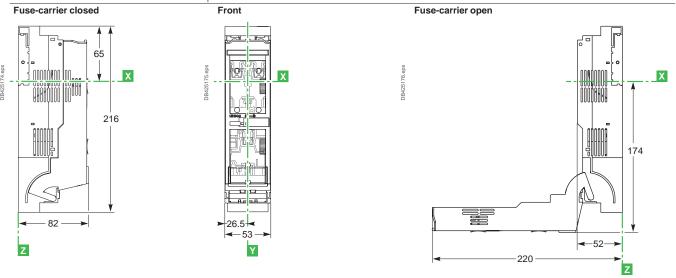
			Switchgear		Fuse-link		Total
		Rating	Model	Power dissipated per pole	Max. pov dissipate		Total power dissipated per pole
		(A)		(W)	Rat. (A)	P (W)	(W)
Fixed front-co	onnected device (without conversion kit)	100	ISFT100N	3.3	100	7.5	11
			ISFT100	3.6	100	7.5	11
		160	ISFT100	3.8	160	8.2	12
		160	ISFT160	3.0	160	12	15
		250	ISFT 250	6	250	23	29
		400	ISFT400	10	400	34	44
		630	ISFT630	19	630	48	67
With	60 mm hook-on connection	100	ISFT100N	3.7	100	7.5	11
conversion	60 mm hook-on connection	160	ISFT160	5.6	160	12	17
kit	60 mm hook-on connection	250	ISFT250	6.7	250	23	30
	60 mm hook-on connection	400	ISFT400	5.3	400	34	46

FuPacT ISFT100N

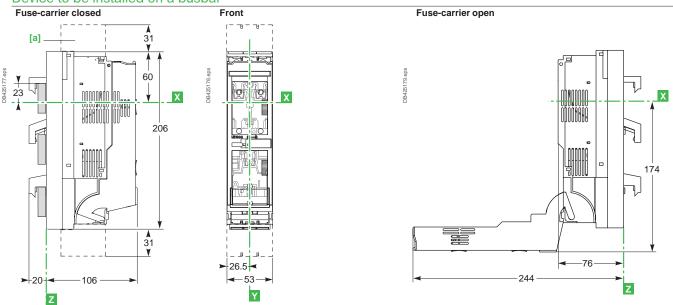
Dimensions and mounting

Dimensions



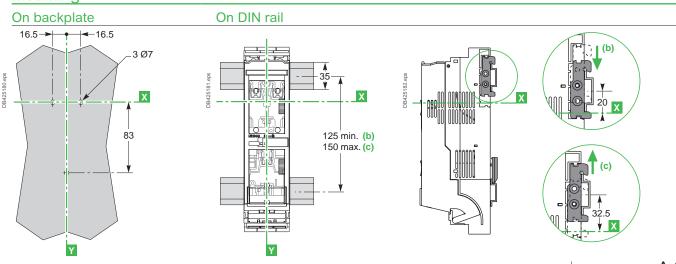


Device to be installed on a busbar



[a] Terminal shields.

Mounting

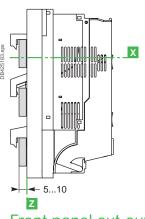


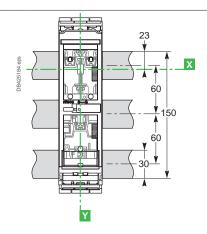
FuPacT ISFT100N

Front panel cut-outs - Connection and accessories

Mounting (cont.)

On 60 mm busbars



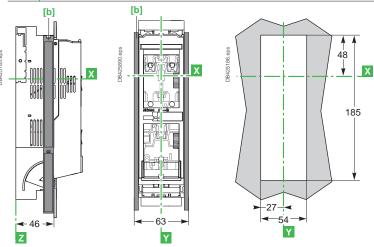


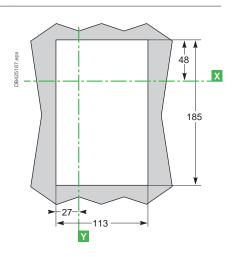
Front panel cut-outs

Device to be installed on a backplate or DIN rail

Cut-out for 1 device [1]

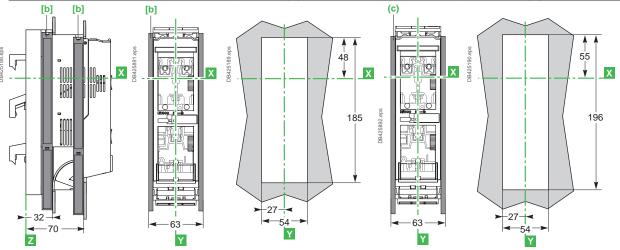
Cut-out for 2 devices [2]





[1] With or without side profile, see page A-24. - [2] With side profile, see page A-24. -

Device to be installed on a busbar Cut-out (c) for 1 device Cut-out (d) for 1 device



Front connection of cables

FuPacT ISFT100N devices are equipped as standard with connectors for bare copper cables from 2.5 to 50 mm² for mounting on backplates.

Standa	ırd device		
FuPacT connector	FuPacT connectors	L (mm)	18
		S (mm²) Cu/Al	2.5 to 50 rigid
			2.5 to 35 flexible
		Torque (Nm)	3
OS			

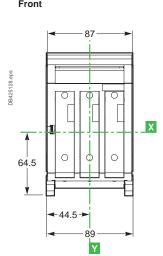
[b] Laterally attachable support profile.

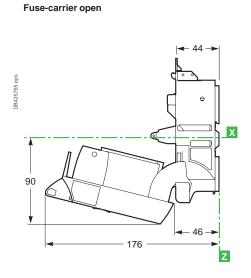
FuPacT ISFT100 Dimensions

Dimensions

Device to be installed on a backplate or DIN rail

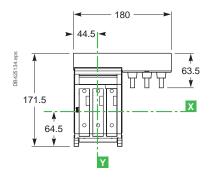
Fuse-carrier closed 71 130 134 X 46 Z

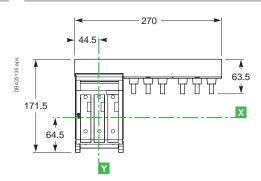




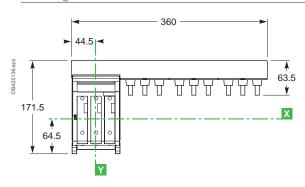
Feeding busbar for 2 ISFT100 devices

Feeding busbar for 3 ISFT100 devices





Feeding busbar for 4 ISFT100 devices



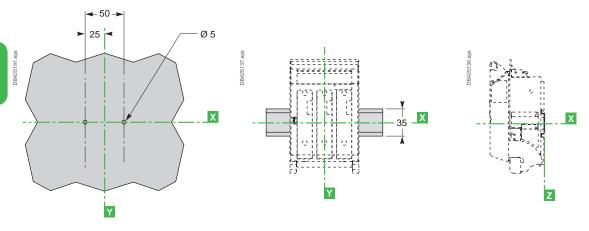
FuPacT ISFT100

Mounting and front panel cut-outs

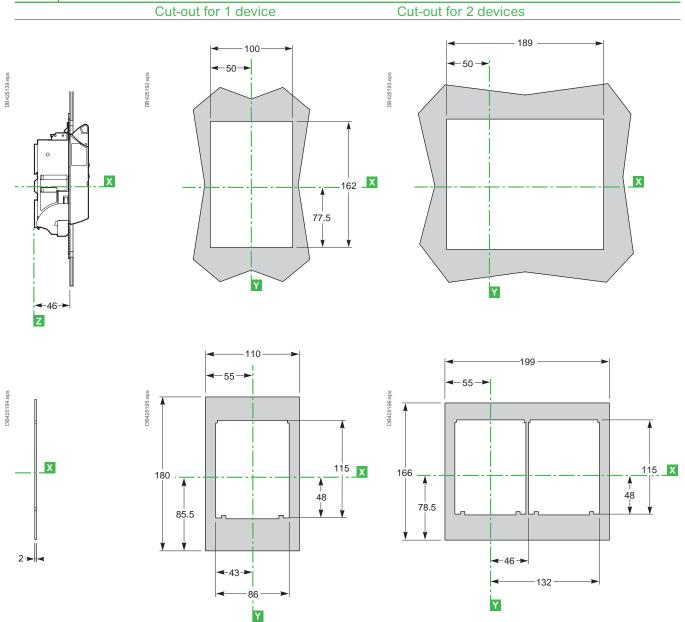
Mounting

On backplate

On a symmetrical DIN rail

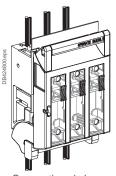


Front panel cut-outs

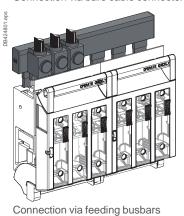


FuPacT ISFT100

Connection and accessories



Connection via bare cable connectors



Front connection via bare cable connectors

FuPacT ISFT100 devices are equipped as standard with connectors for bare copper or aluminium cables from 1.5 to $50~\rm mm^2$ for mounting on backplates.

Standa	rd device		
1 .	FuPacT connectors	L (mm)	18
<u> </u>		S (mm ²)	1.5 to 50 rigid
sd da		Cu/Al	1.5 to 35 flexible [1]
1307.		Torque (Nm)	3
S O 8			

3 x 1	0 mm ² distribution con	nector	
1	FuPacT connectors	L (mm)	18
T T		S (mm ²)	1.5 to 10 rigid
0B40/307.eps		Cu/Al	1.5 to 6 flexible [1]
40130		Torque (Nm)	2 (cables)
[®] O S			3 (connectors)

[1] Connection of 2.5 to 4 mm² flexible cables requires crimped or auto-crimping ferrules.

Front connection via feeding busbars

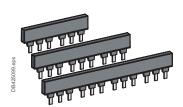
This accessory simplifies connection of cables and can be used to supply two to four FuPacT ISFT100 devices.

■ Tightening torque 3 Nm.

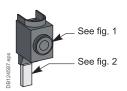
I	ncoming conn	ector for fee	eding busbars	
	FuPa	cT connectors	L (mm)	18
	ļ		S (mm ²)	25 to 95 rigid
sda	H		Cu/Al	25 to 70 flexible
3B401307.eps	4		Torque (Nm)	10 (cables)
# O	S			3 (connectors)



Distribution connector



Feeding busbars



Incoming connector for feeding busbars

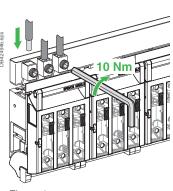


Figure 1

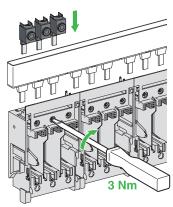
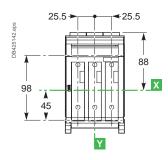


Figure 2

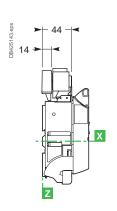
Connection and accessories

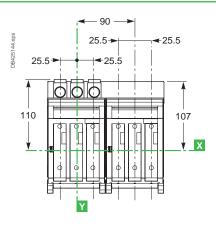
Basic device with distribution connector option

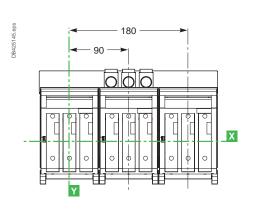




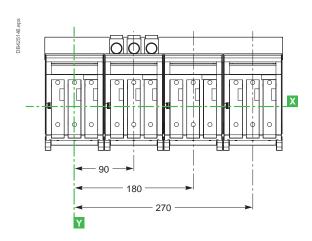
Feeding busbars for two or three ISFT100 devices (with 25 to 95 mm² incoming connector)





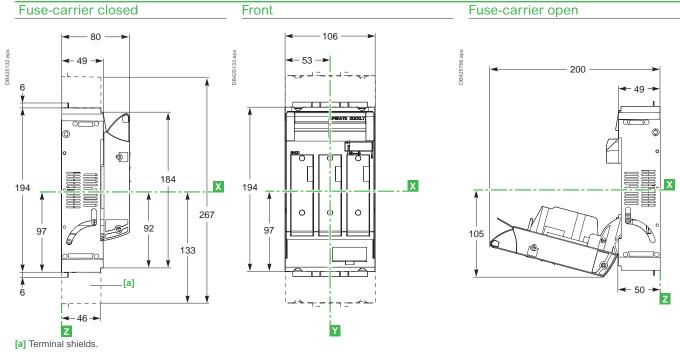


Feeding busbars for four ISFT100 devices (with 25 to 95 mm² incoming connector)



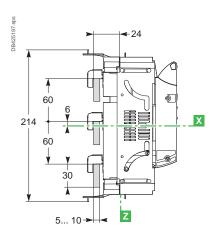
FuPacT ISFT160 Dimensions

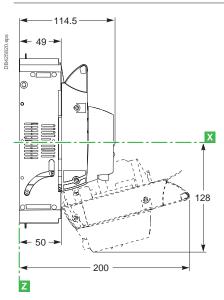
Dimensions



With hook-on

With fuse monitor



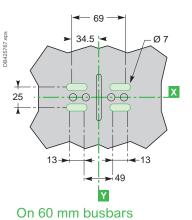


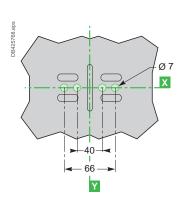
FuPacT ISFT160

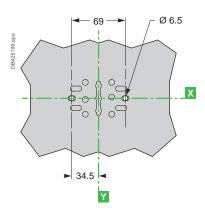
Mounting and front panel cut-outs

Mounting

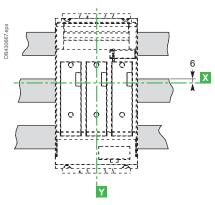
On backplate



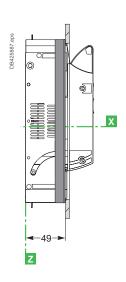


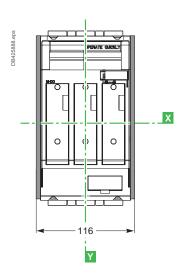


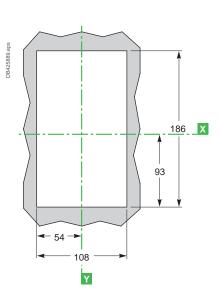
With hook-on



Front panel cut-outs

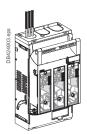




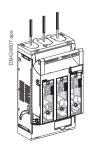


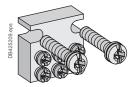
FuPacT ISFT160

Connection and accessories









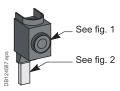
Distribution connector



Connector for flexible bars

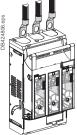


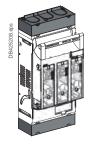
Short terminal shield



Incoming connector for feeding busbars









V-type connector for bare Cu/Al cables



Lug for copper cables



Long terminal shields

Front connection to standard M8 terminals

FuPacT ISFT160 devices are also equipped with 12 mm wide terminals with holes for M8 screws for the connection methods presented below.

	3 x 16 mm ² distribution cor	nector	
DB401307.eps		L (mm)	25
		S (mm ²)	1.5 to 16 rigid
		Cu/Al	1.5 to 10 flexible [1]
		Torque (Nm)	2 (cables)
	O S		4 (connectors)

Used	with	long	terminal	shields
OSCU	AAICII	iong	terrinia	Silicias

V-type connector for b	are Cu/Al cables	
1 .	L (mm)	25
s II L	S (mm ²)	1.5 to 95 rigid
DB401307.eps	Cu/Al	1.5 to 70 flexible [1]
34013	Torque (Nm)	4
ŌS	Used with short te	rminal shields

Connector for flexi	ble bars		
	L (mm)	20	
V L	l (mm)	12	
	e (Nm)	6	
	Torque (mm)	4	
~e	Used with short ter	minal shields	

	Lug for 95 to 185 mm ² copper cables						
	M	L (mm)	< 12				
sds		Ø (mm)	8.2				
DB401312.eps		Torque (Nm)	14				
DB4	9 .						
	_ Ø						
		Llood with long torminal	ahialda				
	▼ '	Used with long terminal	Shleids				

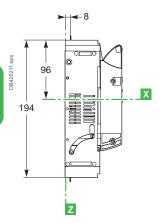
[1] Connection of 2.5 to 4 mm2 flexible cables requires crimped or auto-crimping ferrules.

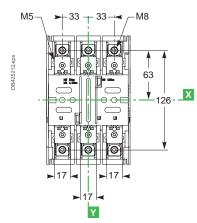
Direct front connection to connectors

FuPacT ISFT160 devices are equipped as standard with connectors for bare copper or aluminium cables from 1.5 to 50 mm² for mounting on backplates.

	Standard	device		
DB401307.eps	î.	FuPacT connectors	L (mm)	25
	O S		S (mm ²)	1.5 to 95 rigid
			Cu/Al	1.5 to 70 flexible
			Torque (Nm)	4
			Used with short termina	al shields

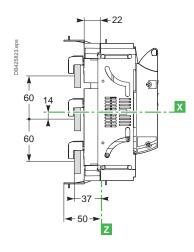
Connections for mounting on a backplate

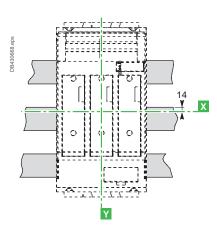




Connections for mounting on 60 mm busbars

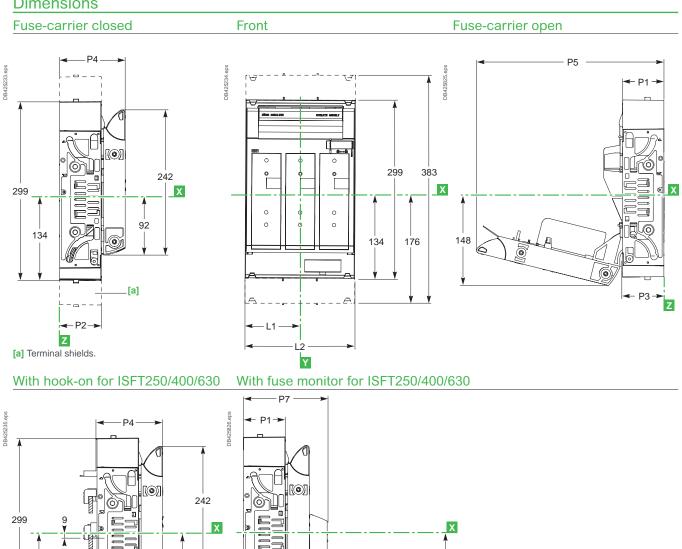
Hook-on connection

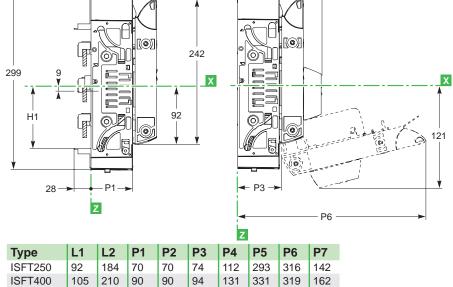




FuPacT ISFT250 to 630 Dimensions and mounting

Dimensions





ISFT630

FuPacT ISFT250 to 630

Mounting and front panel cut-outs

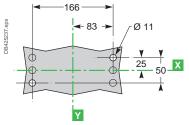
Mounting

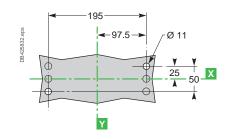
< 75 → Ø 11

On a backplate for ISFT250

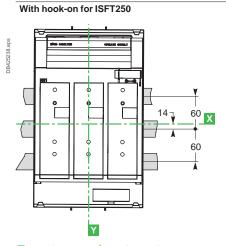


On a backplate for ISFT630

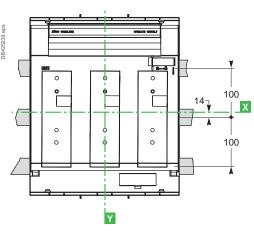




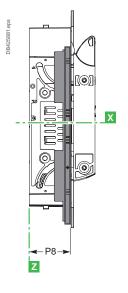
On busbars



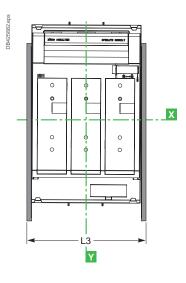
With hook-on for ISFT400/630

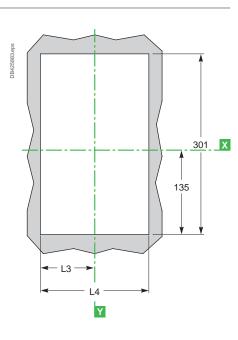


Front panel cut-outs



Type	L4	L5	P8	
ISFT250	93	186	70	
ISFT400	106	212	90	
ISFT630	126	252	90	





FuPacT ISFT250 to 630

Connection and accessories





Terminal shields



V-type connector



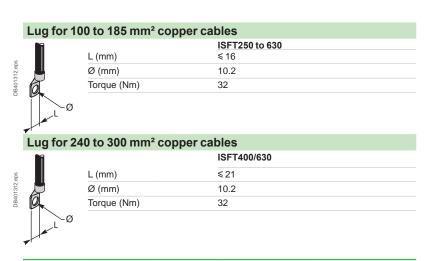


Front connection to standard M10 terminals

FuPacT ISFT250 to 630 devices are equipped as standard with terminals comprising holes for M10 screws for the connection methods presented below.

V-type connector for bare Cu/Al cables					
1 .		ISFT250	ISFT400/630		
s L	L (mm)	20	25		
401307.eps	S (mm²)	6 to 150	6 to 240		
3401	Cu/Al				
0 S	Torque (Nm)	14	14		

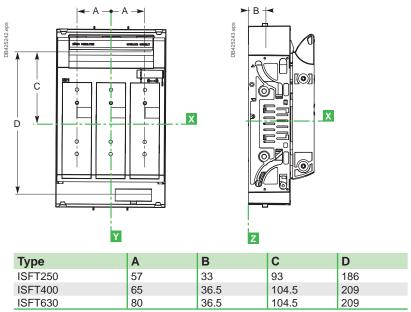
	Connecto	r for flexible bars			
DB401311.eps			ISFT250	ISFT400/630	
	I	L (mm)	20	30	
		I (mm²)	16	21	
		e (mm)	15	15	
	e	Torque (Nm)	14	14	



FuPacT ISFT250 to 630

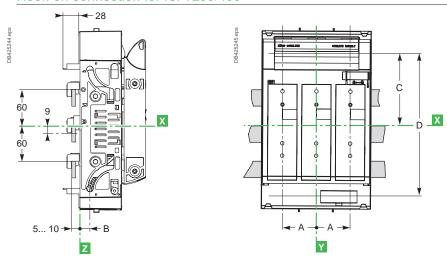
Connection and accessories

Connections for mounting on a backplate



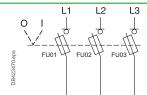
Connections for mounting on 60 mm busbars

Hook-on connection for ISFT250/400

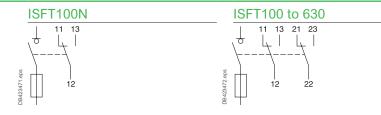


FuPacT ISFT

Power

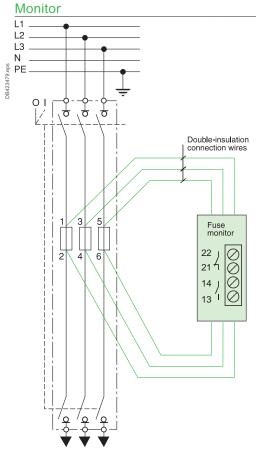


Auxiliary contacts



Blown fuse

ISFT160 to 630 Electronic fuse











ISFL250/400/630/1250

FuPacT ISFL

Functions and characteristics

Fuse switch-disconnector selection Fu PacT ISFL160 to ISFL1250	
Accessories and auxiliaries Fu PacT ISFL160 - 3P Fu PacT ISFL250 to ISFL630 Fu PacT ISFL1250	B-8 B-10
General characteristics: ISFLFuPacT ISFL160 to ISFL1250	
ISFL installation Fu PacT ISFL160 Fu PacT ISFL250 to ISFL1250	B-14
Connection and accessories FuPacT ISFL160 to ISFL1250 - Connection FuPacT ISFL160 to ISFL630 - Connection, coupling FuPacT ISFL160 to ISFL630 - Reverse distribution FuPacT ISFL1250 - Reverse distribution	B-16 B-18 B-20
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Fuse monitor Fu PacT ISFL160 to ISFL1250	
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Intelligent measurement	

Other chapters

Presentation	2
Fu PacT ISFTA-	1
Fu PacT GS	1
Catalog numbersD-	1

R

Fu**PacT** ISFL

Installation recommendations

Possible installation positions and mounting FuPacT ISFL160 to ISFL1250	
Implementation and power dissipation	

Other chapters	
Presentation	2
Fu PacT ISFT	A-1
Fu PacT GS	C-1
Catalog numbers	D-1

FuPacT ISFL

Dimensions and connection

FuPacT ISFL160 3 x 1P	
FuPacT ISFL160 1 x 3P Dimensions and mounting Connection and accessories	B-40
FuPacT ISFL250 to 630 1 x 3P	
FuPacT ISFL250 to 630	
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Otne	r cna	ap	ter	S
Dracar	tation	٠.		

Presentation	2
Fu PacT ISFT	A-1
Fu PacT GS	C-1
Catalog numbers	D-1

Fuse switch-disconnector selection FuPacT ISFL160 to ISFL1250







ISFL160 - 3P

ISFL160 - 3 x 1P





ISFL250 - 3P

ISFL250 - 3 x 1P

Fuse switch-discor			IECeo 1	269-2-1 Section 1
	oo dofinad br	IEC coc		
Electrical characteristics EN 60947-1 / EN 60947-3	as defined by	IEC 6094	∓/-1 / IE	EC 60947-3 and
Conventional thermal current (A)	In free air	lth	at 40 °C	
	Maximum fuse po	wer dissipat	tion (W)	
	In enclosure	Ithe	at 40 °C	
	Maximum fuse po	-		
Rated insulation voltage (V)		Ui	AC 50/6	0 Hz / DC
Rated impulse withstand voltage (k	V)	Uimp		
Rated operational voltage (V)	10000 (1/)	Ue	AC 50/6	0 Hz
Rated operational voltage AC20 and	d DC20 (V)	Ue .	10 =0/0	
Rated operational current (A)		le	AC 50/6	
				220/240 V
				380/415 V
				440/480 V ^[1]
				500 V
				660/690 V
			DC/pole	s in series
				125 V /nbr of poles
				220 V /nbr of poles
D				440 V /nbr of poles
Rated duties		Uninterrup	ted duty	
Breaking Capacity with Fuses (kARM	/IS)	lq		415 V
				500 V
				690 V
Short circuit making capacity (kA pe	eak) /	Icw (1s) / I	cm / In	415 V
Fuse nominal current (A) Switch-disconnector with fuse prote	action (fuga link) [2]	fuse		500 V
Switch-disconnector with fuse prote	ction (luse link)			690 V
Endurance (category B) (CO cycles	s)		Mechan	ical
			Electrica	al AC AC23B 415 V
				AC22B 500 V
				AC21B 690 V
Suitability for isolation				
Positive contact indication				
Pollution degree				
Control				
Direct handle (operator-dependent	opening and closin	ia)		
Locking	Padlocks	· 57		
LOCKING	Lead seal			
la disette e santisetes	Leau seai			
Indication auxiliaries				
Auxiliary contacts				
Current transformer				
Installation and connection	on accessorie	S		
Possible mounting position	Horizontal			
	Vertical			
<u>.</u>		bloo		
Connector	For horo Cu/Al oo			
Connector	For bare Cu/Al ca	DIGO		
	For bare Cu/Al ca For flexible bars	bies		
Connector Lugs for Cu/Al cables		DIGS		
		ыез		
Lugs for Cu/Al cables		bies		
Lugs for Cu/Al cables Terminal shields	For flexible bars	3P		
Lugs for Cu/Al cables Terminal shields Dimensions and weight	For flexible bars			

[3] Only for ISF160 with direct connection to the busbars.
[4] AC22B 690 V.

Fuse switch-disconnector selection FuPacT ISFL160 to ISFL1250

	ISFL160 ISFL250 3 x 1P or 3P/DIN (NH) 3 x 1P or 3P/DIN (NH)		L160 ISFL250			1SFL400 3 x 1P or 3P/DIN (NH)			ISFL	30		ISFL1250 3P/DIN (NH)	
					BP/DIN (NH)								
	160		250			400			630			1250	
	12		23			34			48			2 x 48	
	160		250			400			630			1250	
	12		23			34			48			2 x 48 1000	
	1000		1000			1000			1000				
	8		8			8			8			8	
	690		690		690			690			690		
	800		800			800			800			800	
	AC22B	AC23B	AC21B	AC22B	AC23B	AC21B	AC22B	AC23B	AC21B	AC22B	AC23B	AC21B	AC22E
	160	160	250	250	250	400	400	400	630	630	630	1250	1250
	160	160	250	250	250	400	400	400	630	630	630	1250	1250
	160	-	250	250	ļ-	400	400	-	630	630	-	1250	1250
	160	-	250	250	-	400	400	-	630	630	-	1250	1250
	100	-	250	-	-	400	-	-	630	-	-	1250	-
	DC21B	DC22B	DC21B	DC22B		DC21B	DC22B		DC21B	DC22B		DC21B	DC22E
	-	-	-	-		-	-		-	-		-	-
	-	-	-	-	_	-	-		-	-		-	-
	-	-	-	-		-	-		-	-		-	-
	O		•			•			0			•	
	100		120			120			120			80	
	100		120				80						
	100		100			100		100		80			
	5kA/7.65kÂ/160A		15kA/30kÂ/250		15kA/30kÂ/400		25kA/52.5kÂ/630		25kA/52.5kÂ/630				
	5kA/7.65kÂ/160A		15kA/30kÂ/250		15kA/30kÂ/400		25kA/52.5kÂ/630		25kA/52.5kÂ/630				
	5kA/7.65kÂ/160A		15kA/30kÂ/250		15kA/30kÂ/315		25kA/52.5kÂ/500		25kA/52.5kÂ/500				
	1400		1400		800		800		800				
	200		200		200			200			200		
	200 [4]		200			200			200			200	
	200		200			200			200			200	
	0		•			•			0			0	
	•		O			O			•			O	
	3		3			3			3			3	
	•		•			•			•			•	
	0		0			0			0			•	
	-		-			-			-			-	
	•		•			•			•			•	
	● [3]		•			•			•			•	
	•		1-			1-			1-			-	
	0					0			•				
			0									0	
	O		•			•			•			•	
	O		-			-			1-			-	
	•					-						-	
	included		included			included			included			included	
	405 x 50 x	123	741 x 100 :	x 190		741 x 100	x 190		741 x 100	x 190		834 x 200	x 190
	1.30		4.70			5.00			5.60			15.20	

Fuse switch-disconnector selection FuPacT ISFL160 to ISFL1250







ISFL160 - 3 x 1P



ISFL250 - 3P



Fuse switch-disconnectors

pe of fuse-link	
	DIN NH000
	DIN NH00
	DIN NH1
	DIN NH2
	DIN NH3
stallation and connecti	on

Ins

ISFL160 for 60 mm busbar hook-on contact mounting with multiple use terminal (screw M8)

ISFL160 for 60 mm busbar hook-on contact mounting with box terminal 95 mm²

ISFL160 for 100 mm busbar hook-on contact mounting with multiple use terminal (screw M8)

ISFL160 for 100 mm busbar hook-on contact mounting with box terminal 95 mm²

Conversion kit for 185 mm busbar direct contact mounting (for 1 or 2 x ISFL160)

ISFL160 for 185 mm busbar 1-pole switchable direct mounting

ISFL160 for 185 mm busbar 1-pole switchable hook-on mounting

Terminal tightening torque (Nm)

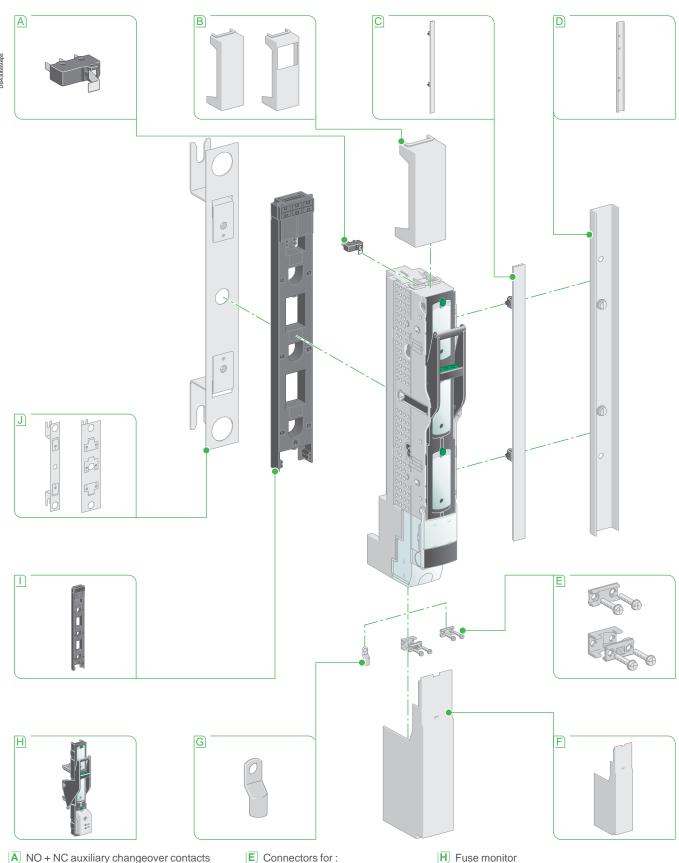
"Vertical mounting"	Ith (A)	40 °C
fuse-links in vertical position		45 °C
		50 °C
		55 °C
		60 °C
		65 °C
		70 °C
"Horizontal mounting"	Ith (A)	40 °C
fuse-links in horizontal position		45 °C
		50 °C
		55 °C
		60 °C
		65 °C
		70 °C

- [1] Derating data is based on:
 - the maximum rating for fuse-links intended for the device
 - maximum power dissipation.

Fuse switch-disconnector selection FuPacT ISFL160 to ISFL1250

	1			
ISFL160	ISFL250	ISFL400	ISFL630	ISFL1250
•	-	-	-	-
•	-	-	-	-
-	•	-	-	-
-	-	•	-	-
-	-		•	•
	,	,		10
•	-	-	-	-
•	-	-	-	-
•	_	-	-	_
	-		-	-
•	_	_	_	_
•				
	<u>•</u>	(a)	(a)	<u> </u>
D 00	•	•	•	•
see page B-36				
Line	Lana	Luca	Lana	1000
160 150	250 240	400 380	630 600	1250 1200
145	225	360	570	1130
135	215	340	535	1070
130	200	320	500	1000
120	190	300	475	940
110	175	280	440	880
160	-	-	-	-
150	-	-	-	-
145	-	-	-	-
135	-	-	-	-
130	-	-	-	-
120	-	-	-	-
110	-	-	-	-

Accessories and auxiliaries FuPacT ISFL160 - 3P



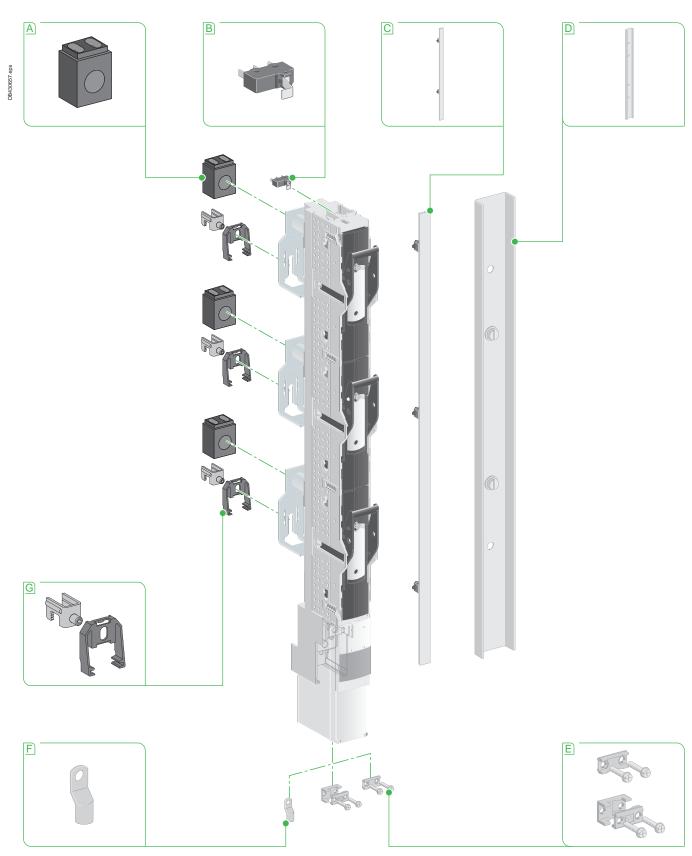
- A NO + NC auxiliary changeover contacts
- **B** Lenght adapter
- © Side cover for front panel cut-out
- D Blank panel cover for free slot
- F Lenght adapter
- **G** Lug for copper cable

■ bare cable

■ flexible bars

- H Fuse monitor
- Current transformer
- J Conversion kit for direct connection to 185 mm busbars

Accessories and auxiliaries FuPacT ISFL160 - 3 x 1P



- A Current transformer
- B NO + NC auxiliary changeover contacts
- Side cover for front panel cut-out
- D Blank panel cover for free slot
- E Connectors for :
 bare cable

 - flexible bars
- F Lug for copper cable
- G Hooks

Accessories and auxiliaries FuPacT ISFL250 to ISFL630



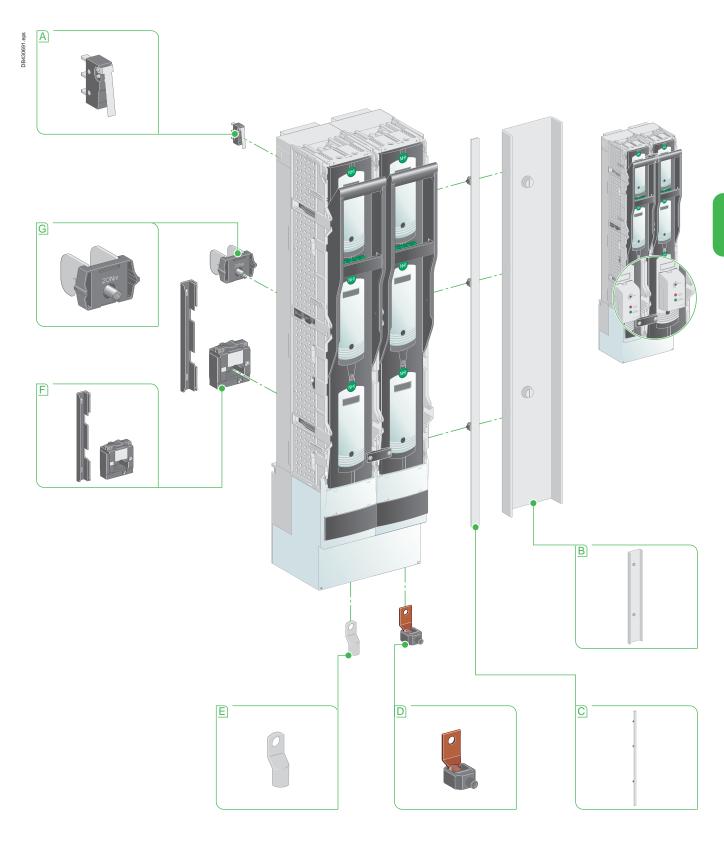
- A NO + NC auxiliary changeover contacts
- **B** Empty plastic box
- © Blank panel cover for free slot
- D Side cover for front panel cut-out
- E Screws with plastic support
- Connector for Cu/Al bare cables 2 x 50 to 185 mm²
- G Connector for Cu/Al bare cables 1 x 35 to 300 mm²
- H Lug for copper cable
- Current transformer
- J Hooks

B-10





Accessories and auxiliaries Fu**PacT** ISFL1250



- A NO + NC auxiliary changeover contacts
- B Blank panel cover for free slot
- © Side cover for front panel cut-out
- Onnector 4 x 240 mm²

- E Lug for copper cable
- F Current transformer
- G Hooks

General characteristics: ISFL FuPacT ISFI 160 to ISFI 1250



ISFL turnable hooks

With FuPacT ISFL, you have one of the most efficient vertical NH fuse switchdisconnectors ever designed with compact dimensions, a modular system and an elegant design. Your benefit are as follows:

Future proof

The trend is moving from simple power distribution stations to more intelligent power distribution stations. FuPacT ISFL is made for the future: with interfaces for measurement and control equipment which can be integrated in a space-saving

Reduced heat development

Safeguarding high currents requires one thing above all: keeping a cool head. This is where FuPacT ISFL leads the pack. They feature one of the lowest heat development values of all products available on the market. This pays off for your entire facility: reduced energy loss, improved operating safety and durability.

Faster mounting

All installation and connecting components of the FuPacT ISFL were optimized and the number of assembling steps was reduced.

This puts your switch "on the track" even more quickly.

Safety in mind

The switch gears are very user friendly and provide optimal user protection due to parallel switching. Two disconnected positions per phase produce two smaller electrical arcs. This causes only half the arc voltage.

Turnable contact hooks

FuPacT ISFL fuse-switches, vertical design, 00/60 are the first of its kind to feature turnable contact hooks. This makes it much easier to mount the NH Fuse-Switch on the busbar in addition to being much more flexible. Due to its symmetry, the NH Fuse-Switch can be turned around at any time. Terminal top or bottom can be chosen freely. Thus, only one version needs to be placed on stock.

Fast connection – with variable box terminals

High currents require large cable cross-sections. At the same time, modern switchboard cabinets are becoming more and more compact.

They accommodate three cables of up to 95 mm² in the smallest possible. No one else can do that with a FuPacT ISFL 160 A. This is possible only due to the stepped and slightly offset arrangement of the box terminals. Captive screws enable a quick and reliable securing of the cable.

Optimized back-up with space-saving currenttransformer installation

Do you wish to measure currents in addition to safeguarding them? We have redefined space for you. Our new current transformers can be installed behind the FuPacT ISFL, vertical design, without an alteration of installation depth. After removing the break-out-pieces form the socket, the current transformers is simply plugged on - ready for use. With or without a current transformer, the FuPacT ISFL always has the same installation depth, so no adaptors are required.

General characteristics: ISFL FuPacT ISFL 160 to ISFL 1250

The elegant solution

To obtain the same installation depth with surrounding devices, the FuPacT ISFL vertical design, size 00/185 does not only come with conventional adapters but also features raised busbar connections. This makes it easy to mount the fuse-switch adjacent to devices of size 1 to 3. Simply hook the elevated feeding bracket onto the pre-mounted bolts or attach it with the contact hooks.

There is no need for drilling. This allows the same installation depth for all sizes, giving the front face a clear uniform look.

No trouble with large cross-sections

Standard universal terminals allow the direct connection of cable lugs as well as cables with cross-sections up to 300 mm². Easy-to-install terminal hardware gives you great flexibility. No other small-sized FuPacT ISFL can do that.

Appealing at first sight

Rotating nameplates turn your installation possibilities into a real eye-catcher. No matter if the terminal is located on top or at the bottom, technical data and installation labels of all FuPacT ISFL are always correctly aligned.

Turn-off-position - up to three padlocks

Even fuse-protection-devices need to be protected: from electricity-theft, manipulation and unauthorized use. This is why every 3-pole FuPacT ISFL, vertical design, may be locked with up to three locks. This is possible in both, the closed and the secure padlock position.

Intelligent measurement

The future belongs to more intelligent switchboards. FuPacT ISFL is well prepared for the future: it offer standardized interface for measurement devices.

Contemporary power management

FuPacT ISFL measuring devices offers a large selection of measuring and monitoring options: from basic current measurements and power metering, harmonic wave analysis to remote management and alarm relays, and many more. All electrical parameters are visualized on an LCD and can be centralized. EM measuring devices are normally installed separately in the switchboard. FuPacT ISFL offer an integrated solution which can simply be plugged on.

Electronic Fuse-Monitoring - Everything under control

You know what happens and where it happens almost instantly to a notification, technician receives the information required to precisely locate and quickly correct short-circuits and overloads. Your technician will be faster to analyze and change fuse which is broken.



FuPacT ISFL160 - 3 x 1P



FuPacT ISFL630 with fuse monitor

ISFL installation FuPacT ISFL160

FuPacT ISFL fusegear is installed vertically and connected directly to the busbars. The connection is bolted or could be made by the hook-on connection.

Direct connection to the busbars (ISFL160 and ISFL400)

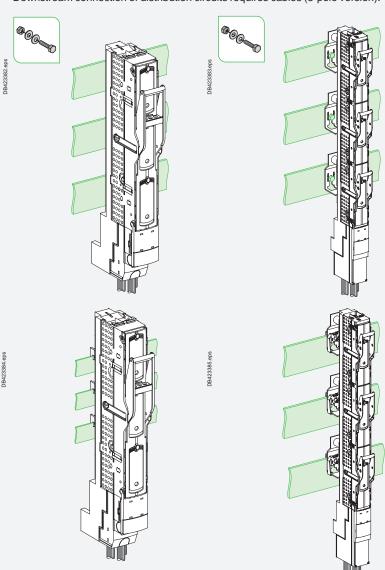
ISFL160 fusegear

Connection to busbars.

The power circuit is connected:

- directly to the 100 mm busbars for 3-pole version or to the 185 mm busbars for
- using a hook-on connection to 60 mm busbars (3-pole version)
- via a conversion kit for connection to 185 mm busbars (3-pole version)
- via a conversion kit for two devices and for connection to 185 mm busbars.

Downstream connection of distribution circuits requires cables (3-pole version).



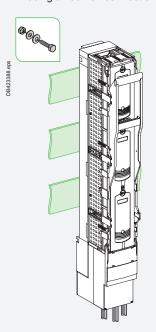
ISFL installation FuPacT ISFL250 to ISFL1250

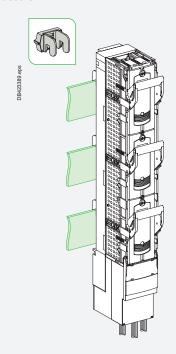
ISFL250/400/630 fusegear

Connection to busbars.

The power circuit is connected:

- directly to the 185 mm busbars for 1-pole and 3-pole version
- using a hook-on connection to 185 busbars



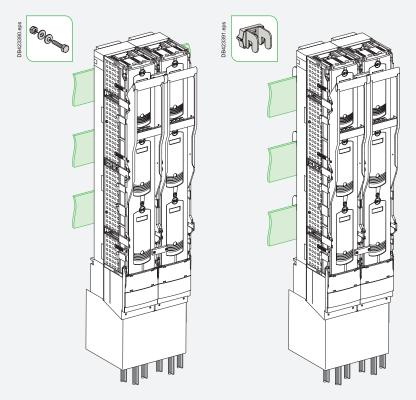


ISFL1250 fusegear

Connection to busbars.

The power circuit is connected:

- directly to the 185 mm busbars for 3-pole version
- using a hook-on connection to 185 mm busbars





Direct connection to the busbars: the device is bolted to the busbars with one connection point per phase that allows for both electrical connection and robust mechanical mounting.



Hook-on connection to busbars: the device tightly hooks on to the busbars via three hooks that allows for both electrical connection and robust mechanical mounting.

These two systems allow for or enable direct contact of the power circuit to the busbars and usual connections for downstream distribution (bare cable connectors, lugs, bars, distribution connectors, etc.).

The two connection systems can also be reversed to supply distribution circuits via the upstream terminals.

Connection and accessories FuPacT ISFL160 to ISFL1250 - Connection

FuPacT ISFL fuse-switch disconnectors can supply distribution circuits via either the upstream or downstream terminals.

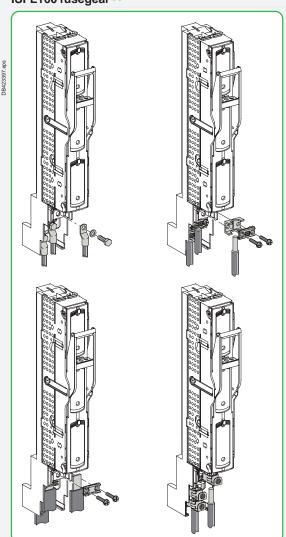
Devices intended for connection to busbars are configured as standard for distribution via the downstream terminals.

ISFL fusegear is equipped with connectors or terminals for front connection of:

- cables with lugs for the ISFL160 and ISFL1250 devices
- flexible bars for the ISFL160 devices
- bare cables for ISFL160 to 630 devices.

	ISFL160	ISFL250	ISFL400	ISFL630	ISFL1250
Cables					
Lug	95 mm²	-	-	-	
Cable connector to terminal	1.5 to 95 mm ²	1 x 35 to 300	mm ²		-
	-	2 x 50 to 185	mm ²		
Flexible bars					
Connector	12 x 6 mm	-	-	-	-

ISFL160 fusegear [1]



[1] Connections and accessories are identical for ISFL single phase.





Lug for copper cables



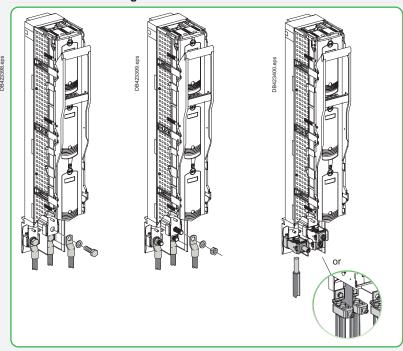
Connector for bare Cu/Al cables



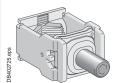
Connector for flexible bars

Connection and accessories FuPacT ISFL160 to ISFL1250 - Connection

ISFL250/400/630 fusegear [1]





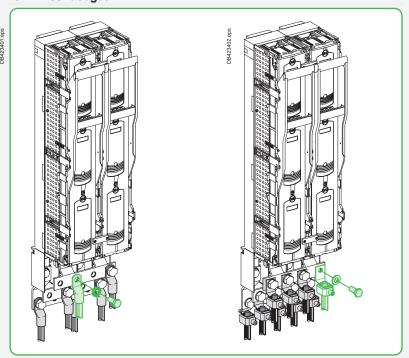


Connector for Cu/Al bare cable 1 x 35 to 300 mm²

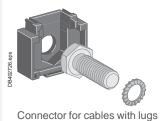


Connector for Cu/Al bare cable 2 x 50 to 185 mm²

ISFL1250 fusegear



[1] Connections and accessories are identical for ISFL single phase.





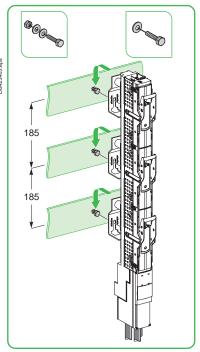
Connector 4 x 240 mm²

Connection and accessories

FuPacT ISFL160 to ISFL630 - Connection, coupling

Two conversion kits are available for ISFL160 3-pole switchable to adapt the 100 mm standard fixing centres to 185 mm fixing centres.

Direct connection to 185 mm **busbars**



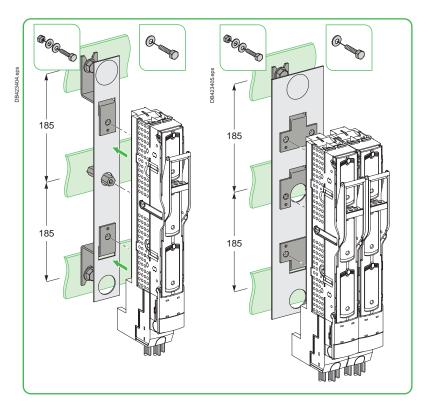
ISFL160 1P

Conversion from 100 to 185 mm

The kit connects to the busbars via a hook-on connection.

Conversion kit for 185 mm busbars includes electrical and mechanical connections to the busbars (set of nuts and bolts).

Electrical and mechanical connection of the device to 100/185 mm conversion kit is ensured by three screws.

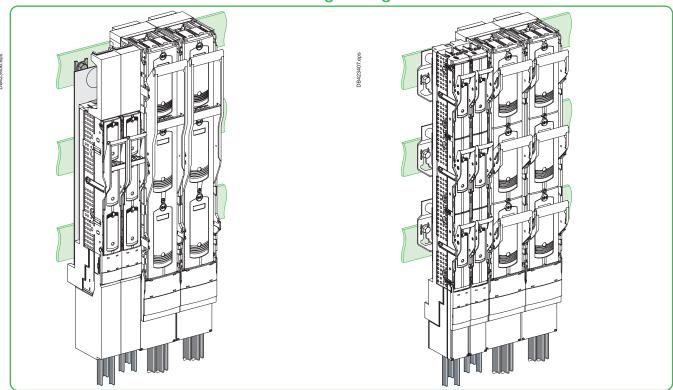




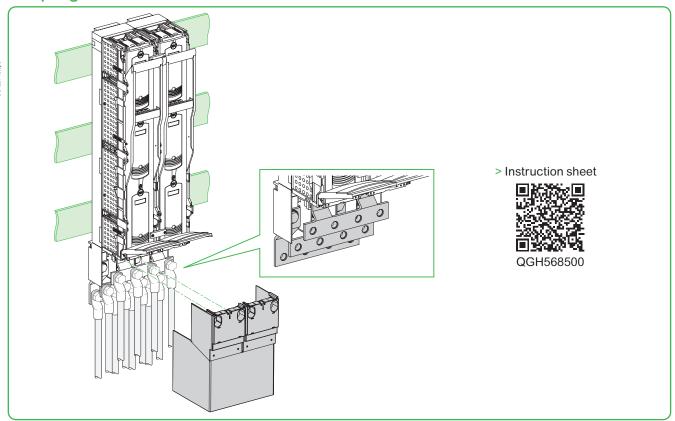
ISFL160 (185 mm kit)

Connection and accessories FuPacT ISFL160 to ISFL630 - Connection, coupling

Installation of devices with different ratings on a given set of busbars



Coupling kit from ISFL250 to ISFL630



Connection and accessories FuPacT ISFL160 to ISFL630 - Reverse distribution



Direct connection on 185 mm busbar (ISFL160 with ISFL630)

ISFL160 fusegear devices with hook-on connection to 60 mm bars are available in two versions:

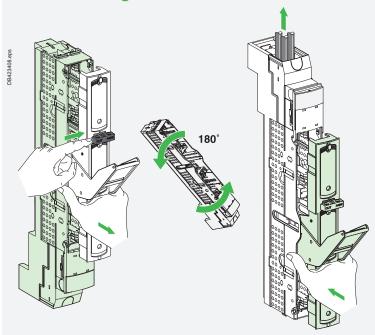
- connection using M8 screws
- connection using a 95 mm² terminal.

For each of these versions, the distribution reversal mode is achieved by rotating the hooks located at the rear, which gives the possibility of upstream distribution.

The fuse-carrier assembly does not change position.

All the various connection modes could be reversed also.

ISFL160 fusegear with turnable hooks [1]



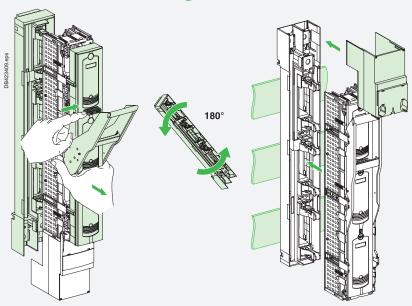
ISFL160 release tab

- To remove the fuse-carrier assembly from the base, put the device in open position and press the release tab down.
- To lock the fuse-carrier assembly, replace it in open (OFF) position on the base and push the release tab up.

ISFL250/400/630 release tab

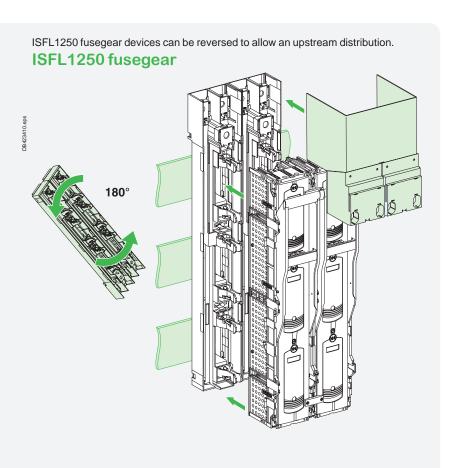
- To remove the fuse-carrier assembly from the base or install it on the base, check that the device is in open position and press the release tab down.
- To lock the device in open (OFF) position, push the release tab up.

ISFL250/400/630 fusegear[1]



[1] For ISFL 1-pole switchable: identical reversed distribution could be done.

Connection and accessories FuPacT ISFL1250 - Reverse distribution



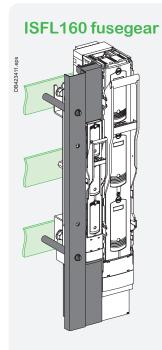
Insulation FuPacT ISFL160 to ISFL630

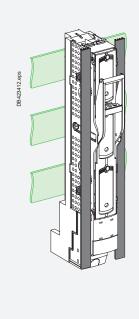


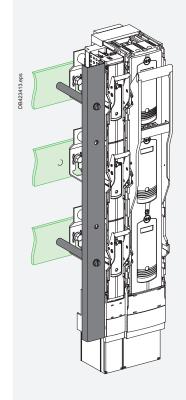
Length adapter

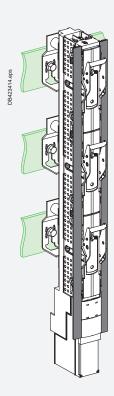




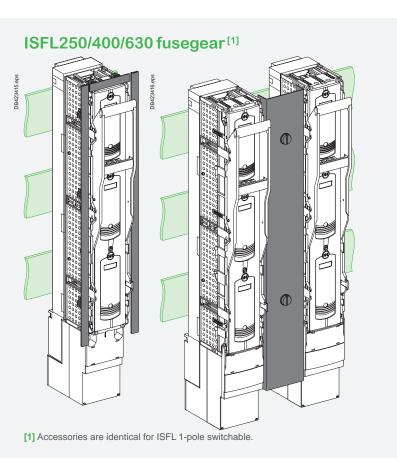




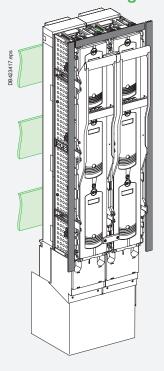


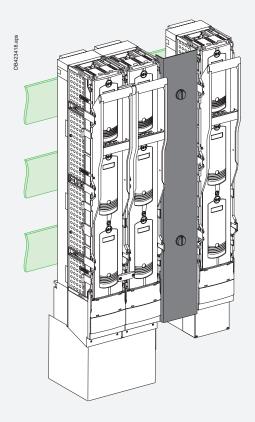


Insulation FuPacT ISFL250 to ISFL1250



ISFL1250 fusegear







Blank panel cover

Fuse monitor FuPacT ISFL160 to ISFL1250







B-24

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Functions

The device provides remote indication of the standard fuse status (without strikers). It is used to:

- signal a blown fuse
- protect motors from overloads caused by single-phase operation.

Standards

- Compliance with international standard IEC 60947-5-1.
- Compliance with:
 - □ EN 50204
 - □ EN 61000 for electromagnetic compatibility (EMC).

Description

- Fuse monitor function only for 3P.
- Operation with DIN fuses.
- May be used on capacitor bank circuits.
- Simplified power supply:
 - □ does not require a specific power supply
 - □ operates with unbalanced phases
 - □ supplied via connection to the fuse terminals on the switch-disconnector fuse
 - □ operational voltage 400...690 V AC, ±10 %, 50/60 Hz.
- Tested for electromagnetic compatibility (EMC).
- ISFL160:
 - □ it is a fuse-carrier/handle and fuse monitor sub-assembly supplied as a kit composed of:
 - fuse monitor equipped with one NO contact and one NC contact
 - fuse-carrier with the handle
- ISFL250 to 1250:
 - □ order directly the fuse monitor mounted on the product
- Characteristics:
 - □ IP20 degree of protection
 - ☐ To have a complete class II insulation, install the product with a fuse monitor inside a switchboard and not on the front face.

Class II insulation with switchboard on front face is ensured only when FuPacT ISFL is in closed position.

Note: lugs for connection to the fuse-carrier are not supplied.

Operation

Reset

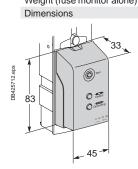
The device is automatically reset when the fuse-links are replaced.

Indications

- Normal operation:
- ☐ the green LED is ON when voltage is present at the fuse terminals
- □ the contacts are in the rest position
- Operation when a fuse is blowed:
 - ☐ the green LED goes off and the red LED goes on
 - □ the contacts are actuated:
 - the NO contact is for remote fault indication
 - the NC contact may be used, for example, to control an undervoltage device in order to shut down equipment that may be sensitive to single-phasing.

Fuse monitor FuPacT ISFL160 to ISFL1250

Power circuit							
Rated operational voltage	(Ue)	400 to 690	V AC 50/60 Hz ±10	%			
Consumption							
Rated frequency		< 3 VA 50/60 Hz					
Measurement impedance		> 1000 Ω/V	1				
Rated impulse withstand voltage (1.2 / 50 μs) (Uimp)							
Auxiliary contact output terminals							
Terminal indications	13 - 14						
	NC	21 - 22					
Cable capacity	Flexible	≤ 1.5 mm ² (Cu				
	Rigid	≤ 2.5 mm ² (Cu				
Output contact characteristics (1NO +							
Conventional thermal current Ith (A)		5					
Rated insulation voltage (V)		250					
Minimum load		10 mA at 24	4 V				
Characteristics		AC		DC			
Utilisation category (IEC 60947-5-1)		AC12	AC15	DC12	DC13		
Operational current (A)	24 V	-	3	-	2		
· · · · · ·	48 V	-	3	-	-		
	110 V	-	3	-	-		
	220/240 V	-	3	-	-		
	250 V	-	3	-	-		
	380/415 V	-	-	-	-		
	440 V	-	-	-	-		
	660/690 V	-	-	-	-		
Rated operational voltage / max. breaking voltage (V.	AC)	250/440					
Breaking capacity (VA)		2000					
General characteristics							
Operating temperature range (°C)		-25+55 (\$	-25+55 (≤ 500 V)				
Storage and transport temperature range (°C)		-40+70	-40+70				
Fuse blowing detection time (s)		< 2	< 2				
Overvoltage category / degree of pollution		IEC 60947-	IEC 60947-1 3				
Dielectric test voltage (between power circuit and out		5 kV rms / 1	5 kV rms / 1 min 50 Hz				
Electromagnetic compatibility - emissi	on						
Conducted		EN 55022 (Class B				
Radiated		EN 55022 (EN 55022 Class B				
Harmonic currents		EN 61000-3	EN 61000-3-2 Class A				
Electromagnetic compatibility - immur	nity						
Electrostatic discharge (ESD)		EN 61000-4	EN 61000-4-2 category B level 2/3				
Radiated field susceptibility (RF)		EN 61000-4	EN 61000-4-3 category A level 3				
Surge immunity test		EN 61000-	EN 61000-4-5 level 4				
Conducted low energy susceptibility (EFT)			EN 61000-4-4 category B level 3				
Conducted high energy susceptibility (RF)			EN 61000-4-6 category A level 3				
Radio-frequency interference (GSM)			ENV 50204 category A				
Magnetic field immunity							
Continuous		EN 61000-4	4-8 level 5				
Mechanical characteristics							
		IP20					
Degree of protection Weight (fuse monitor alone) (kg)		IP20 0.2					



Measurement accessory FuPacT ISFL160 to ISFL1250

The current transformers (CTs) produce a current (1 - 5 A) on the secondary winding that is proportional to the current measured on the primary winding.

They can therefore be used in conjunction with measurement devices (ammeters, energy meters), load-shedding devices, control relays, etc.

Operation and implementation

FuPacT ISFL160 to 1250 fusegear can be equipped with tube-unit current transformers (CT).

CT modules are available in two versions:

- 3-pole module with one or three CTs for ISFL160 fusegear (3-pole version),
- single-pole module with one CT for ISFL160 (1-pole version) /250/400/630/1250.
- fusegear, 4 ratings from 150 to 600 A.

The CT modules are clipped onto the back of the switchgear.

The modules can be connected:

- via terminal blocks for the 3-pole modules (ISFL160) with output current of 1 A.
- via cables directly connected with output current of 5 A.
- via lugs for the single-pole modules (ISFL 160 (1 pole version)/250/400/630/1250).

Selection table ISFL160 class 1 1-pole version Power (VA) lp/5 150/5 ISFL250 to 1250 class 1 ISFL160 accuracy class 1 1 and 3-pole version 3-pole version lp/5 Power (VA) Power (VA) 150/5 1.5 150/5 2.5 250/5 5 150/1 2.5 400/5 5



Curent transformer for ISFL160 (1-pole version)



Single block current transformer for ISFL160 (1 or 3 CTs)

Current transformer for ISFL250/400/630/1250

Environment

 Compliance with standards: IEC 60044-1, NFC 42502, VDE 0414, BS 7626 and IEC 60038-1.

600/5

5

- Degree of protection: IP20.
- Operating temperature range: -25 °C to +70 °C, relative humidity 95 %.
- Storage temperature range: -40 °C to +80 °C.

Technical characteristics

CT electrical characteristics:

- maximum operational voltage: 800 V
- secondary current: 5 A and 1 A
- frequency: 50 to 60 Hz
- continuous overload current: 1.2 In
- safety factor: Fs ≤ 5.

Transformation ratio:

Ip/5 A.

Select the ratio just above the measured current (In). Example: $In = 550 A \rightarrow select a ratio of 600/5$.

CT accuracy class:

- the accuracy class depends on the transformer rating and the consumption of the measurement system. Consumption must take into account the devices and cables
- for a given accuracy class, measurement system consumption must not exceed the transformer rating.

Reminder:

Transformer secondary must be short-circuited before any work.

Measurement accessory Fu**PacT** ISFL160 to ISFL1250

CT accuracy class

Measurement system	
Schneider Electric device	Consumption in VA
72 x 72 mm ammeter	1.1
Analogue ammeter	1.1
Digital IM ammeter	0.5
Digital ammeter	0.3
PM/CM Power Meter	0.15
PM9	0.55

Primary copper cross-section in mm ²	Rating in VA per meter of double wire at 20 °C
1	1
1.5	0.685
2.5	0.41
4	0.254
6	0.169
10	0.0975

For each ten-degree increase in temperature, the power drawn by the cables increases by 4 %

Example of measurement system consumption at 40 °C

 $\begin{array}{ll} \text{4 m of } 2.5 \text{ mm}^2 \text{ double wire} & 1.7 \text{ VA} \\ \text{PM} & + 0.15 \text{ VA} \\ \text{Total consumption} & = 1.85 \text{ VA} \end{array}$

CT accuracy class

The accuracy class of the CT is determined:

- using the selection table
- by the fact that consumption must be < the transformer rating:
 - $\hfill\Box$ class 1 for a CT with a ratio of 150/5
 - $\hfill\Box$ class 0.5 for a CT with a ratio of 200/5.

If measurement accuracy must be within 0.5 %, it is necessary to select a CT with a transformation ratio of 200/5.





ISFL250/400/630 (with CT)



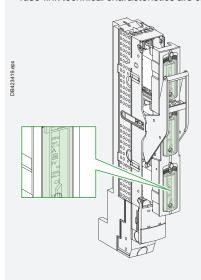
ISFL250 (with CT)

Fuse-link monitoring and testing FuPacT ISFL160 to ISFL1250

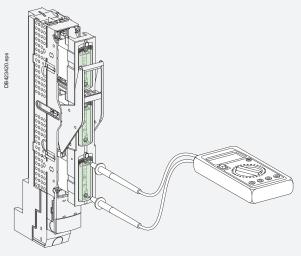
ISFL160

Monitoring

ISFL fuse-switch disconnectors are equipped with large windows so that the fuse-link technical characteristics are clearly visible.



Testing



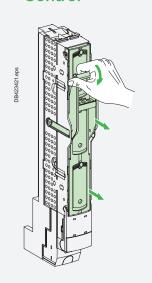
Sliding covers on the front panel provide access to the fuse-link status test points while maintaining the IP20 protection index.

Note: monitoring and testing functions are the same for ISFL 1 pole switchable.

Control, locking and operation Fu**PacT** ISFL160 to ISFL1250

The main moving contacts are controlled by the drawout fuse-carrier assembly for the ISFL devices. In open position, the fuse-switch disconnector fuse-carrier assembly provides isolation with visible break.

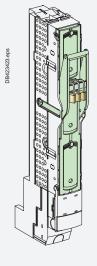
Control



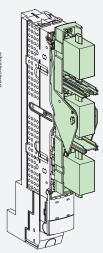
Locking ON [2]



ON



Removed sub-assembly [1]

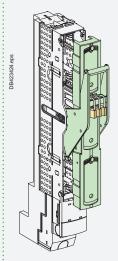


[1] Except for ISFL1250.

Locking OFF [2]



OFF



Padlocking for the ISFL160 to ISFL630 devices

[2] Except for ISFL160 - 1P to ISFL630 - 1P.

Locking in open (OFF) position provides isolation as defined by IEC 60947-3.

Туре	Function	Means	Accessory
ISFL160	Device locking in closed (ON)	Padlocks 3 max Ø6	Built-in
ISFL250 to ISFL1250	or open (OFF) position	Padlocks 3 max Ø8	



ISFL160

To indicate isolation at a glance during maintenance operations for example, put the ISFL fuse switch-disconnector in the "PARK" position by pressing the lock on the front of the **product**.

In this position, the handle is free and the fuses are physically separated from the contacts.

The **product** can then be padlocked (3 x Ø6 mm padlocks for ISFL160 and Ø8 mm for other ISFL).

Press the lock again to close the product when the padlocks have been removed. Another solution is to remove the upper sub-assembly by pressing the lock in the "OUT" position. **Then,** the sub-assembly must be reversed and put directly on the product.

Access to the fuse-links:

- is automatically blocked on the ISFL devices when the fusegear is closed
- may be restricted using padlocks on the ISFL devices.

To lock the fuse-switch disconnector in closed (ON) or open (OFF) position, the fuse-carrier is equipped with lead-seal or padlocking accessories (not supplied).

Control, locking and operation FuPacT ISFL160 to ISFL1250

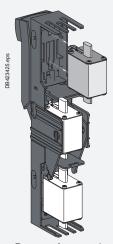
For FuPacT ISFL fusegear devices, the fuse-carrier assembly is used both to control the device and to mechanically protect the fuse-link.



ISFL160

Fuse-carriers [1]

Compatibility between ISFL fuse-switch disconnectors and fuse-links (NH)

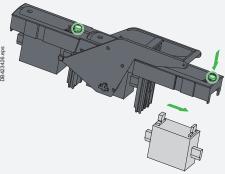


Drawout fuse-carrier assembly for the ISFL160 to 1250 devices

Type of DIN fuse-link	NH000	NH00	NH1	NH2	NH3
ISFL160	•	•	-	-	-
ISFL250	-	-	•	-	-
ISFL400	-	-	-	O	-
ISFL630	-	-	-	-	•
ISFL1250	-	-	-	-	•

Insertion and removal of fuse-links

Fuse-links are held in place by clips behind the front panel of the fuse-carriers, thus making removal possible without touching the fuse-links.



ISFL160 and ISFL250 to ISFL1250

[1] Control, locking and operation are the same for ISFL 1-pole switchable.

Auxiliary contacts and indications Fu**PacT** ISFL160 to ISFL1250

The optional auxiliary contacts carry out indication functions.

They provide remote indication of the fuse-switch disconnector status. They may also be used to indicate and carry out automatic functions such as electrical interlocking.

Standards: compliance with international recommendation IEC60947-5-1. Description: NC/NO changeover contact.

Functional table of contact status

	Auxiliary changeover contact	Auxiliary changeover contact					
	41	Maximum number					
	2						
ISFL160	•	2					
ISFL250	•	4					
ISFL400	•	4					
ISFL630	•	4					
ISFL1250	•	8					

Auxiliary changeover contact for ISFL160 to 1250							
Rated thermal current lth (A) 2							
Rated insulation voltage (V)		250					
Minimum load		100 mA at 24 V					
		AC12	DC12				
Operational current (A)	24 V	2	0.2				
	48 V	2	0.2				
	110 V	2	0.2				
	220/240 V	2	0.2				



Auxiliary contact for ISFL160

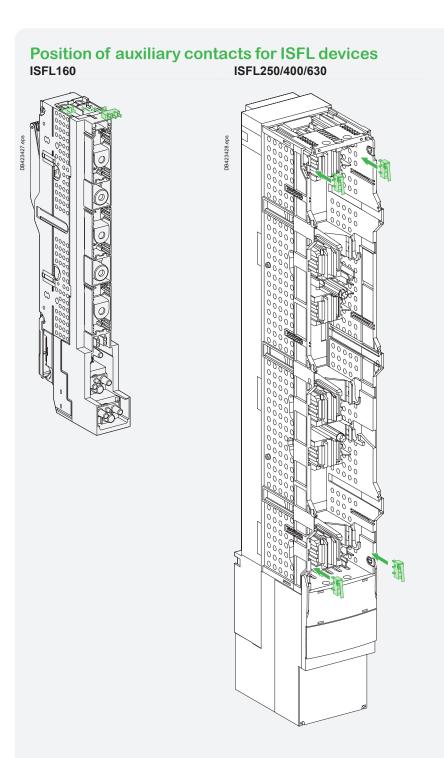


ISFL250/400/630/1250

Auxiliary contacts and indications FuPacT ISFL160 to ISFL630

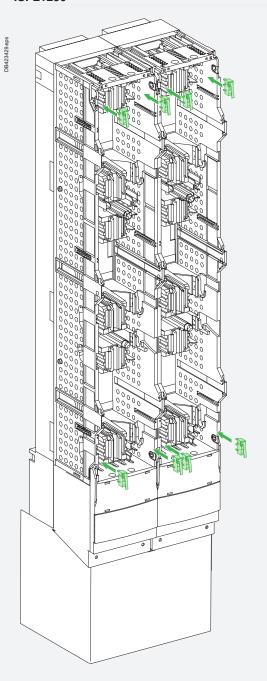






Auxiliary contacts and indications Fu**PacT** ISFL1250

Position of auxiliary contacts for ISFL devices ISFL1250





Intelligent measurement FuPacT ISFL160 to ISFL630







Empty plastic box for ISFL160





Empty plastic box for ISFL250/400/630



ISFL250-630 + Empty box with power meter

The future belongs to more intelligent switchboards. The new ISFL generation, vertical design, are well prepared for the future: they offer standardized interfaces for all types of measurement devices.

Schneider Electric is offering a complete and large offer of metering devices: Powerlogic range.

PowerLogic series meter - Power Meter

The Power Meter serie offers many high-performance capabilities needed to meter and monitor an electrical installation in a compact unit.

All models include an easy-to-read display that presents measurements for all three phases and neutral at the same time, total harmonic distortion (THD) metering, and alarming.

Some models offer an incremental choice of custom logging and power quality analysis capabilities.

Expand any model with field-installable option modules that offer a choice of additional digital inputs and outputs, analog inputs and outputs, and ethernet port.

Flexible measurement options - the amperemeter

Additional measurement options are possible using an amperemeter which is adjusted onto the new amperemeter-bracket. The installation is incredibly simple and the returns extremely versatile.

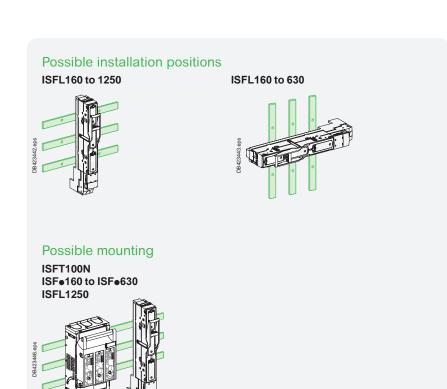
How to install device

- For ISFL160, you can use an empty box to include measurement device:
 - □ plastic box
 - □ dimension 46 x 46 mm for the cut-out
 - □ length: the same as the length adaptor to be able to put the ISFL160 beside ISFL250 to ISFL630
 - ☐ fixation by mounting it directly to the top of the product.
- For ISFL250 to 630, you can use empty boxes to include measurement devices:

 - □ dimension 72 x 72 mm and 96 x 96 mm for the cut-out
 - fixation by mounting it directly to the top of the product.

Securely tightened

Possible installation positions and mounting FuPacT ISFL160 to ISFL1250



Implementation and power dissipation Fu**PacT** ISFL

Reverse supply

FuPacT fusegear may be supplied equally well via the upstream or downstream terminals, without any reduction in performance.

Conductor materials and electrodynamic forces

FuPacT fusegear may be connected using either bare copper, tinned copper or tinned aluminium conductors (flexible or rigid bars, cables).

In the event of a short-circuit, thermal and electrodynamic forces are exerted on the conductors. The conductors must therefore be adequately sized and suitably supported.

Note that the terminals of electrical devices (switch-disconnectors, contactors, circuit breakers, etc.) should not be considered to contribute to the support of the conductors.

Cable ties and flexible bars

The table below indicates the maximum distances between cable ties depending on the prospective short-circuit current.

Do not to exceed a distance of 400 mm between ties strongly fixed to the switchboard frame.

Type of tie	"Panduit" type			"Sarel" type					
	Width: 4.5 mm			Width: 9 mm					
	Max. load: 22 kg			Max. load: 90 kg					
	Color: white		Color: black						
Max. distance between ties (mm)	200	100	50	350	200	100	70	50 (double ties)	
Short-circuit current (kA rms)	10	15	20	20	27	35	45	100	

Note: for cables ≥ 50 mm², 9 mm wide ties must be used.

Tightening torque for ISFL with screw connection

	Туре	Torque (Nm)
ISFL	ISFL160 1-pole version with direct connection to 185 mm busbars	14
	ISFL160 1-pole version with hook-on connection to 185 mm busbars	14
	ISFL160 3-pole version with direct connection to 100 mm busbars	14
	ISFL160 3-pole version with hook-on connection to 60 mm busbars	6
	ISFL160 3-pole version with direct connection to 185 mm busbars with kit	14
	ISFL160 3-pole version with connectors for flexible bars	4
	ISFL160 3-pole version with conectors for bare Cu/Al cables	4
	ISFL 250 1-pole and 3-pole version with direct connection to 185 mm busbars	32
	ISFL 400 1-pole and 3-pole version with direct connection to 185 mm busbars	32
	ISFL 630 1-pole and 3-pole version with direct connection to 185 mm busbars	32
	ISFL 1250 3-pole version with direct connection to 185 mm busbars	32

Implementation and power dissipation FuPacT ISFL

Power dissipated by ISFL fuse-switch disconnectors

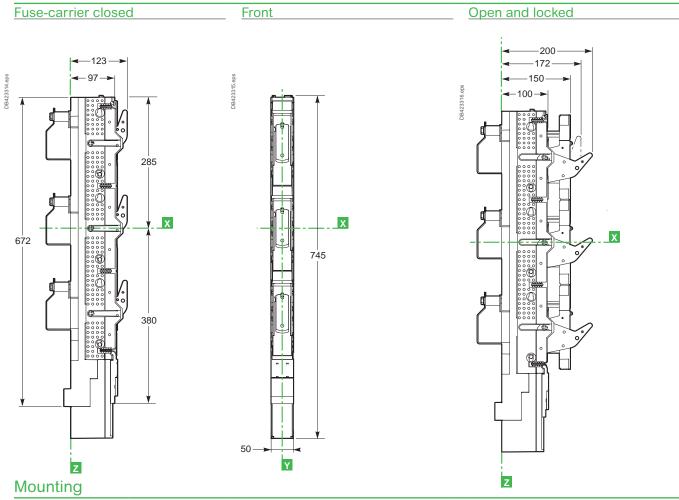
Power dissipated per pole

		Switchgear		Fuse-link		Total	
	Rating	Model		Power dissipated per pole	Max. pov		Total power dissipated per pole
	(A)			(W)	Rat. (A)	P (W)	(W)
Device bolted directly to busbars (without conversion kit)	160	ISFL160	1-pole	6.7	160	12	19
			3-pole				
	250	ISFL250	1-pole	9.0	250	32	32
			3-pole				
	400	ISFL400	1-pole	18.7	400	45	53
			3-pole				
	630	ISFL630	1-pole	37	630	48	85
			3-pole	1			
	1250	ISFL1250	3-pole	37	630	48	85
With conversion kit	160	ISFL160		5.9	160	12	18

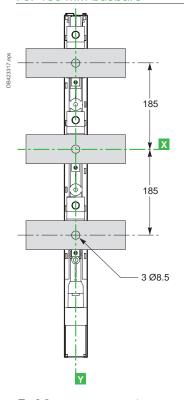
FuPacT ISFL160 3 x 1P

Dimensions and mounting

Dimensions

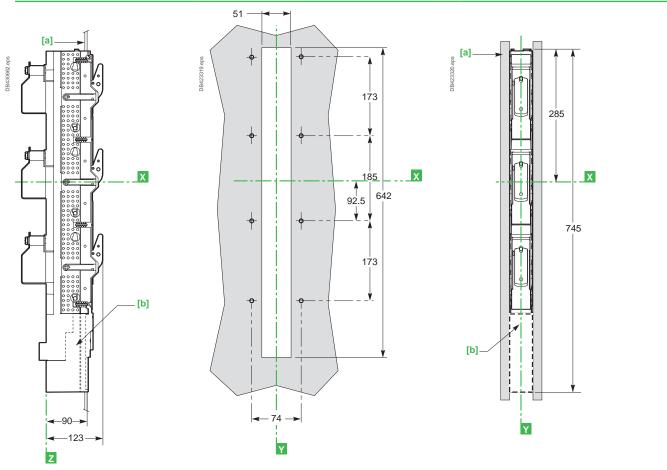


For 185 mm busbars



FuPacT ISFL160 3 x 1P Dimensions and mounting

For 1 device with side cover and/or 1 free slot



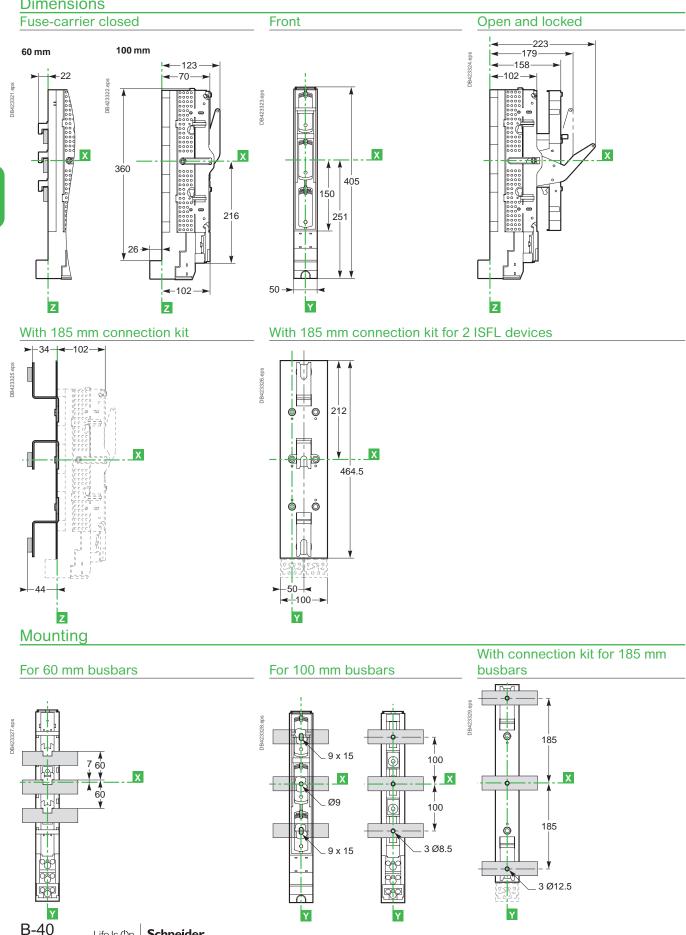
- [a] Side cover for front panel cut-out.[b] Terminal shields.

FuPacT ISFL160 1 x 3P

Dimensions and mounting

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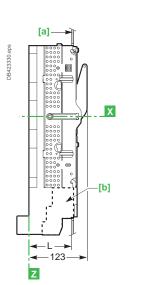


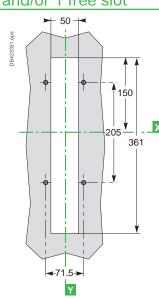


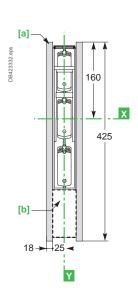
FuPacT ISFL160 1 x 3P

Dimensions and mounting

For 1 device with side cover and/or 1 free slot

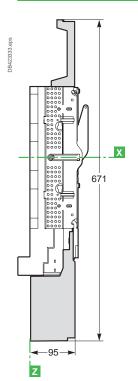


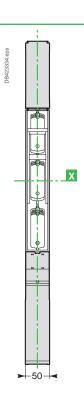


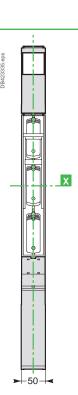


- [a] Side cover for front panel cut-out.[b] Terminal shields.

With length adapter



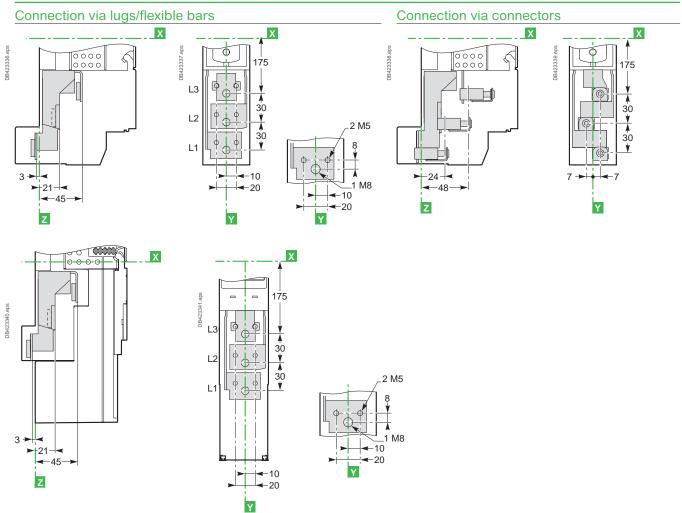




FuPacT ISFL160 1 x 3P

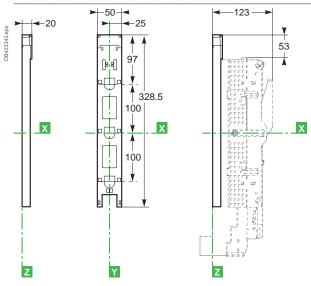
Connection and accessories

Connection



Current transformer

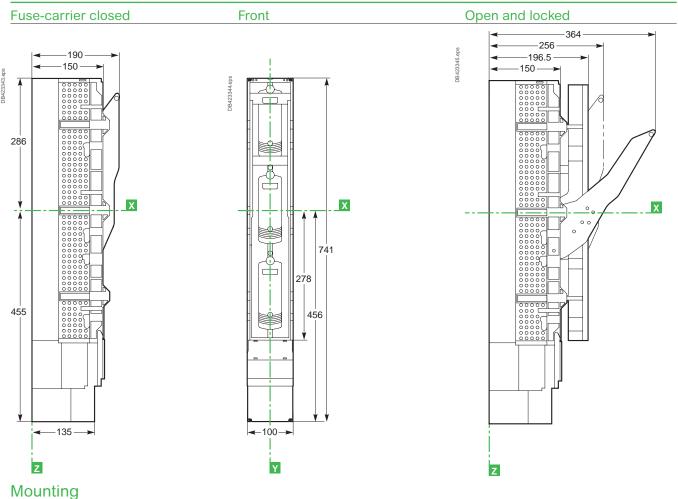
Direct connection to 100 mm busbars



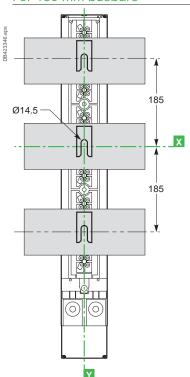
FuPacT ISFL250 to 630 1 x 3P

Dimensions and mounting

Dimensions



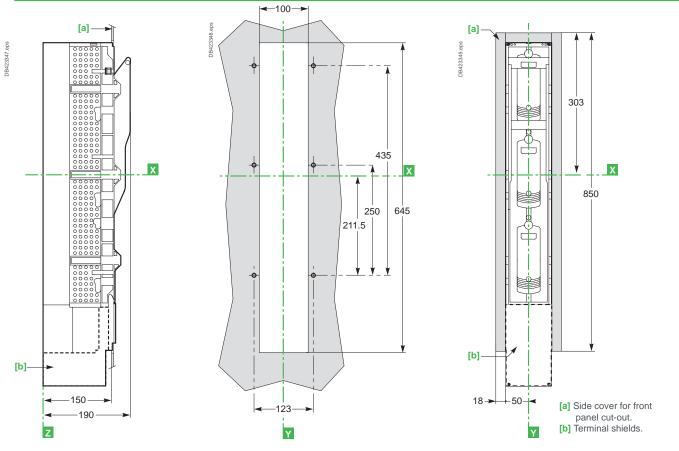
For 185 mm busbars

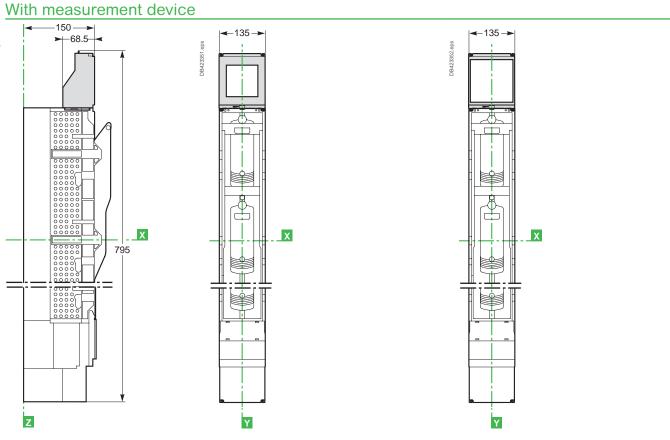


FuPacT ISFL250 to 630

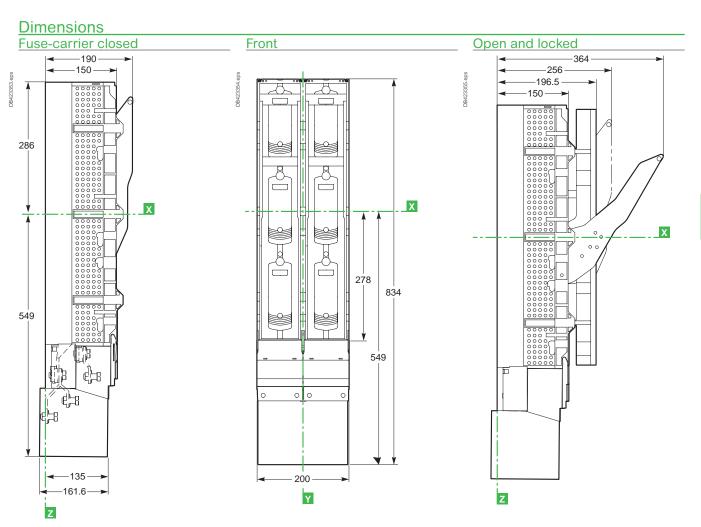
Dimensions and mounting

Device with side cover



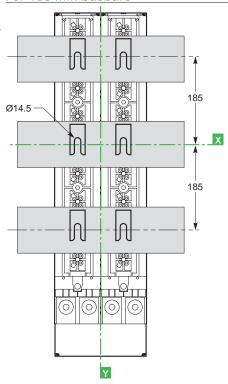


Dimensions and mounting



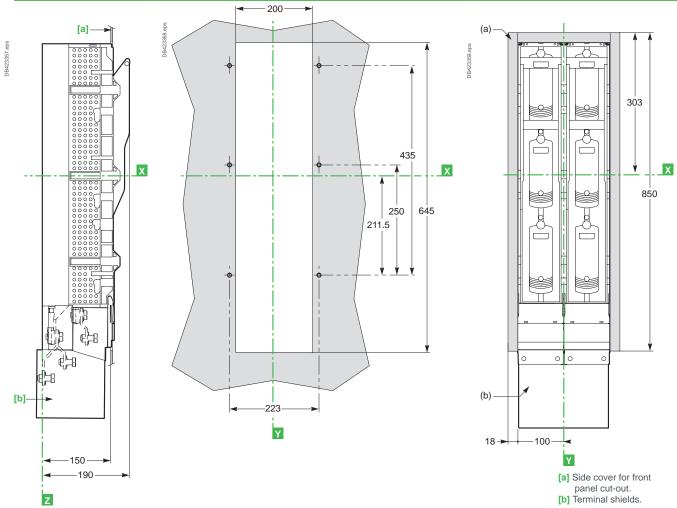
Mounting

For 185 mm busbars



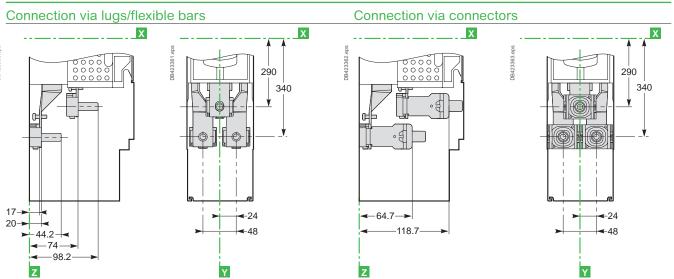
Dimensions and mounting

Device with side cover

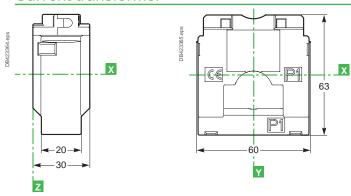


Connection and accessories

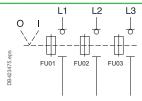
Connection



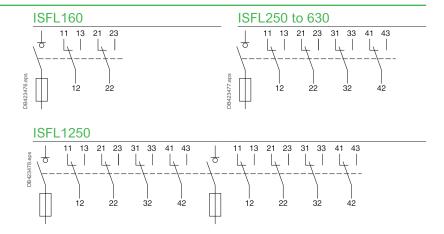
Current transformer



Power

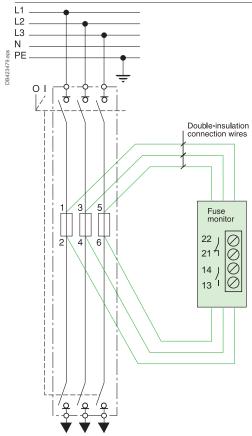


Auxiliary contacts



Blown fuse

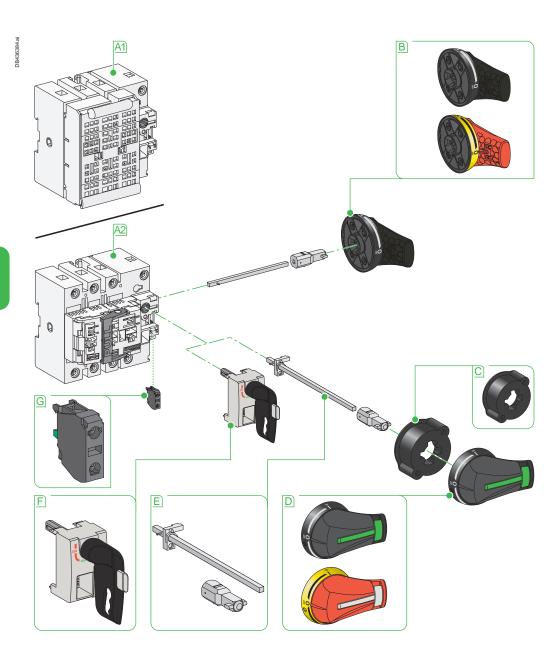
ISFL160 to 1250 fuse monitor



Fu**PacT** GS

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Dimensions Mounting and front panel cut-outs	
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Mounting and front panel cut-outs	
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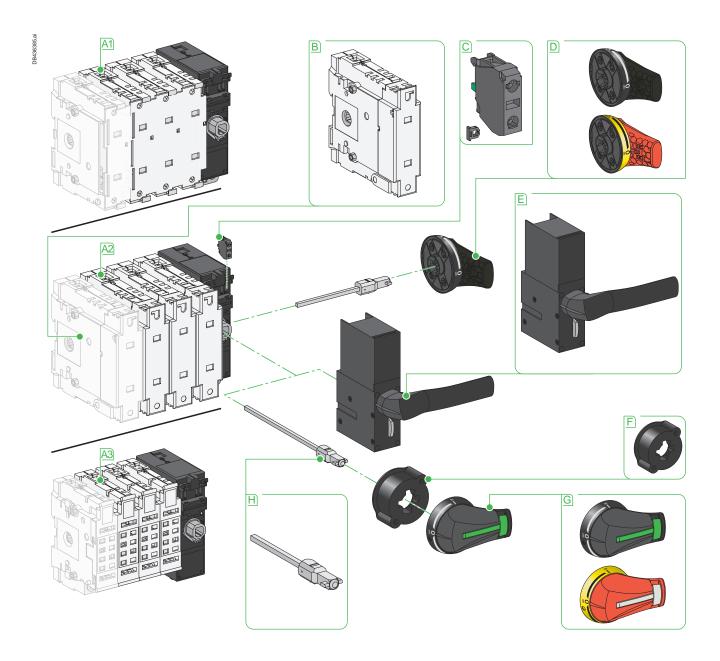
Offer panorama FuPacT GS 32 A



- A Switch disconnector fuse 3P or 4P (neutral switched, not protected) 1- GSB 32 A **2-** GSC 32 A
- **B** Extended lateral handles
- C Guide cone

- **D** Extended front handles
- E Shaft
- F Direct handle
- **G** NO or NC auxiliary contacts

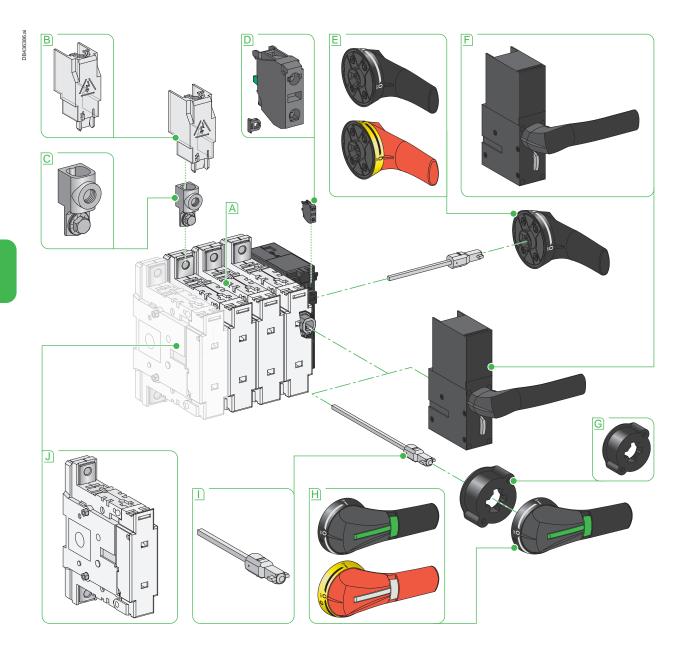
Offer panorama Fu**PacT** GS 50/63 A



- A Switch disconnector fuse 3P or 4P
 - **1-** GSB 63 A
 - **2-** GSC 50 A
 - 3- GSD 63 A
- **B** External neutral module
- NO or NC auxiliary contacts
- **D** Extended lateral handles
- E Direct handle
- F Guide cone

- **G** Extended front handles
- H Shaft

Offer panorama Fu**PacT** GS 100-160 A

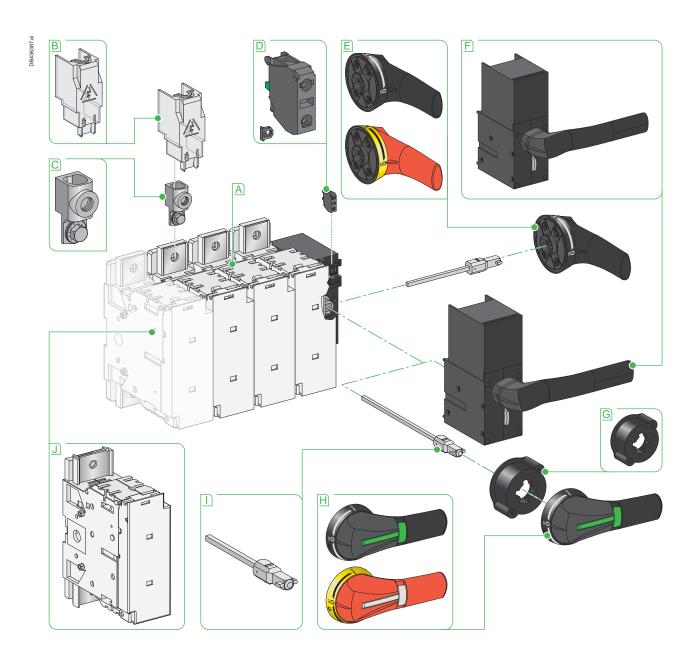


- A Switch disconnector fuse 3P or 4P
 - GSB 100/160 A
 - GSC 125 A
 - GSD 125/160 A
- B Terminal shield

- Bare cable connector
- D NO or NC auxiliary contacts
- **E** Extended lateral handles
- F Direct handle

- **G** Guide cone
- H Extended front handles
- I Shaft
- J External neutral module

Offer panorama Fu**PacT** GS 200/400 A

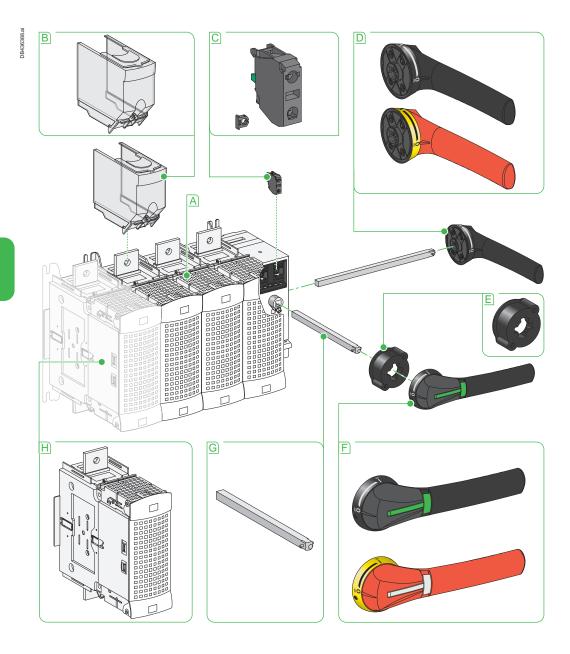


- A Switch disconnector fuse 3P or 4P
 - GSB 200/250/400 A GSD 250/400 A
- **B** Terminal shield
- **©** Bare cable connector

- NO or NC auxiliary contacts
- **E** Extended lateral handles
- F Direct handle
- G Guide cone

- H Extended front handles
- Shaft
- J External neutral module

Offer panorama Fu**PacT** GS 630/800 A



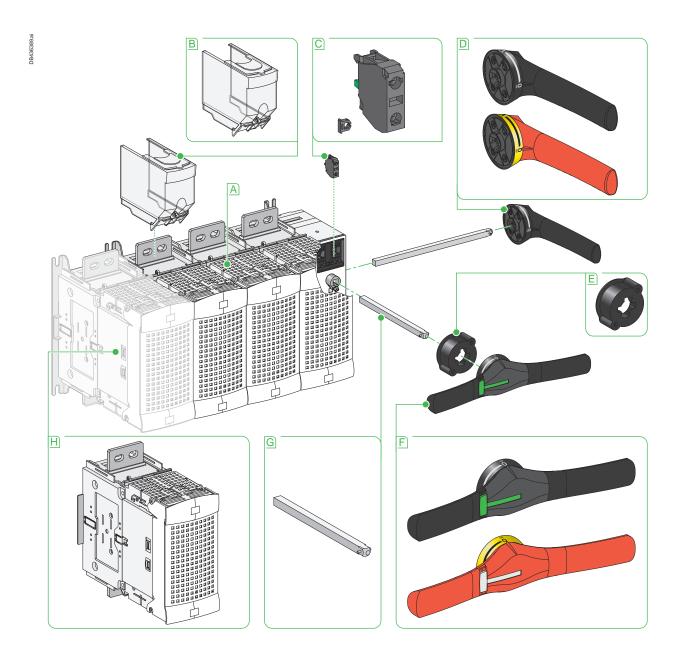
- A Switch disconnector fuse 3P or 4P
 - GSB 630/800 AGSD 630/800 A
- **B** Terminal shield

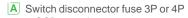
- NO or NC auxiliary contacts
- **D** Extended lateral handles
- E Guide cone

- F Extended front handles
- G Shaft
- H External neutral module



Offer panorama FuPacT GS 1250 A





GSB 1250 AGSD 1250 A

B Terminal shield

- © NO or NC auxiliary contacts
- **D** Extended lateral handles
- E Guide cone

- F Extended front handles
- G Shaft
- H External neutral module

IEC switch-disconnector-fuses for use with NFC or DIN fuses

From 32 to 1250 A

Туре				GSC32	GSC50	GSD63			
Environment									
Conforming to standards	Switch-disconnecto	r-fuses	I	IEC 60947-3					
oomoning to otaliaarao	Fuses	1 14000		IEC60269/NFC63320	0 & IEC60269/BS88				
Product certifications				IEC and CCC	7 4 12 000 203 / B000				
Degree of protection	On Front panel, with terminal covers			IP 20					
conforming to IEC 60529			°C	FO .0F					
Ambient air temperature around the device	Storage		°C	-50+85 -20+70					
Tlama rasiatanas	Operation		°C	960					
Flame resistance conforming to	Fuse cover		°C	-	850				
EC 60695-2-1				 					
Pole characteristics for	•	47-1 / IEC 60947	'-3 et EN	1	1				
Number of poles / Number of fuses				•	•	•			
orruses	3 poles / Neutral switch	ched NOT Protected		•		-			
	4 poles / 4 fuses			-	•	•			
Type of fuses	Fuse size			10x38	14x51	NH 000			
Conventional thermal	At ambient temperat	ure (Ith) at 35°C	Α	32	50	63			
current	Maximum admissible power dissipated by the fuse		W	2.9	4.6	6.0			
	Maximum power dis	sipated by a pole	W	1.2	4.6	4.4			
Derating	in the open air or in	at 40°C	Α	30	48	60			
1	cubicle	at 50°C	Α	27	43	54			
		at 60°C	Α	24	37	47			
at 70°C		at 70°C	Α	20	31	39			
Rated insulation voltage (Ui) 50/60 Hz		٧	800	800	800				
Rated impulse withstand vo	ltage (Uimp)		kV	8	8	8			
Rated operating voltage - A	C (Ue)	50/60 Hz	٧	690	690	690			
Rated operating voltage - A			V	800	800	800			
Rated operational current		220/240 V	Α	32	50	63			
at 50/60 Hz		380/415 V	Α	32	50	63			
		660/690 V	Α	32	50	63			
Rated operational current	Cat. AC-23A/B [1]	220/240 V	Α	32	50	63			
at 50/60 Hz		380/415 V	Α	32	50	63			
		660/690 V	Α	32	50	63			
Rated operational power	Cat. AC-23A/B [1]	380/415 V	kW	15	25	30			
		660/690 V	kW	25	45	55			
Breaking capacity with fuse	es (Ig)	400 V	kA rms	_	-	-			
	,	415 V	kA rms	100	100	100			
		500 V	kA rms		_	_			
		690 V	kA rms	100	100	100			
Mechanical durability		in cycle 0/C		10000	10000	10000			
Ourability in cycle 0/F	Category	• •		Category A					
, , ,	Mechanical	in cycle 0/C		8500	8500	8500			
	Electrical	AC22A 415 V		1500	1500	1500			
		AC22A 690 V		1500	1500	1500			
		AC23A 415 V		1500	1500	1500			
		AC23A 690 V		1500	1500	1500			
Sectioning ability				Yes	Yes	Yes			
Fully apparent cut				No	No	No			
Degree of pollution				III	III	III			

^[1] Category "A": frequent operating cycles, category "B": infrequent operating cycles.

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GSC125	GSD125	GSD160	GSD250	GSD400	GSD630	GSD800	GSD1250
333.23	032.23	332.00		332.00	00200	00000	332.200
LIEO 222 II -							
IEC 60947-3	00000 0 15000000	D000					
	63320 & IEC60269/I	8288					
IEC and CCC							
IP 20							
-50+85							
-20+70							
960							
850							
1_	1_	1_	1_	1_	1_	1_	1_
 •	-	-	-	•	-	•	•
 -	- -		-	-	<u> </u>	<u> </u>	-
2275	NH 00	NH 00	NILI 1	NH 2	NH 2	NH 2	NII 4
 22x58	NH 00	NH 00	NH 1	NH 2	NH 3	NH 3	NH 4
 125	125	160	250	400	630	800	1250
 10.4	12.0	12.0	23.0	33.0	60.0	65.0	110.0
9.6	9.6	10.4	10	24.4	61	60	154
8.6	8.6	10.4	19	24.4	61	68	154
119	119	152	238	382	600	762	1195
107	107	136	213	345	537	682	1079
93 78	93 78	119	186	305	469	595	955
800	800	100	156 800	262 800	393 1000	499	1000
800	8	800		8	12	1000	12
690	690	690	690	690	690	690	690
800	800	800	800	800	1000	1000	1000
125	125	160	250	400	630	800	1250
125	125	160	250	400	630	800	1250
125	125	160	250	400	630	800	1250
125	125	160	250	-	-	-	1250
 125	125	160	250				1250
100	125	-	250		-		1230
70	70	80	132	220	355	450	750
110	110	110	220	295	295	600	900
_	-	-	-			-	-
80	80	80	80	50	100	100	100
-	_		-		-	-	-
100	50	50	50	50	100	100	100
10000	10000	10000	10000	8000	5000	5000	5000
Category A				Category B			
7000	7000	7000	7000	800	800	500	500
1000	1000	1000	1000	200	200	100	100
1000	1000	1000	1000	200	200	100	100
1000	1000	1000	1000	-	-	-	100
1000	1000	1000	1000	-	-	-	-
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
No	No	No	No	No	No	No	No
III	III	III	III	III	III	III	III

IEC switch-disconnector-fuses for use with NFC or DIN fuses

From 32 to 1250 A

Switch-disconnector-fu	use chara	acterist	ics			
Туре			GSC32	GSC50	GSD63	
Installation and connection				1		
Upstream / Downstream connection			•	-	-	
Rear connection			-	-	-	
Connexion material and surface treatment			White zinc plated steel	Tinned copper		
Control auxiliaries						
Directe front rotary handle			•		-	
Front extended handle			•	•	•	
Laterale extend handle			•	•	•	
Padlocking			•	•	-	
Signaling auxiliaries						
Auxiliary contact with pre-cut information			•		-	
Test position			•	•	=	
Installation and connection access	ories					
Internal neutral link			_	•	-	
External neutral module			-	•	=	
Terminal covers			-	-	-	
Cable connector			-	-	-	
Dimensions and weights						
Overall dimensions W x H x D	3P	mm	96 x 98 x 65	121 x 118 x 87	136 x 162 x 116	
	4P	mm	96 x 98 x 65	148 x 118 x 87	168 x 162 x 116	
Approximate weigth without fuses and	3P	kg	0.5	0.8	1.0	
accessories	4P	kg	0.5	1.0	1.3	
Operating torque (typical for a 3-pole)		Nm	8.7	8.7	8.7	

GS1 AM110 and	GS1 AM101 early	brea	k and signaling contact characteristics		
Conventional thermal current (Ith) for ambient temperature ≤ 40 °C			10		
Rated operational current (le)	Cat. AC-15	Α	120 V: 6 - 240 V: 3 - 400 V: 1.8 - 480 V: 1.5		
	Cat. DC-13	Α	24 V: 2.8 - 48 V: 1.4 - 125 V: 0.55 - 250 V: 0.27 - 400 V: 0.15		
Durability	Number of operating cycles		Mechanical: 5000000 Electrical: cat. AC-15: 1000000		
Cabling	Cable (c.s.a. min/max)	mm²	Min: 1 x 0.22 - max: 2 x 2.5		

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GSC125	GSD125	GSD160	GSD250	GSD400	GSD630	GSD800	GSD1250
							Ļ
•	•	•	•	•	•	•	•
-	-	-	-	_	•		-
Tinned copper							
1.	-	-	le	-	I	I	
_		_	_		- -	- -	- -
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
•	•	•	-	-	-	-	•
1_	1_	1_	1_	1_	1_	1_	1-
•	-	-	-	-	•	•	•
•	•	-	-	-	-	-	-
1_	1_	1_	1_	1_	1_	1_	1-
-	•	-	•	-	-	-	-
-	•	-	•	-	-	•	-
-	•	-	-	-	•	•	-
-	•	•	•	-	-	-	-
1,10,100,110	1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	lee4 405 440	la=a aa=a	laa	1004 000 000	1440 000 0
148 x 162 x 116	148 x 162 x 116	148 x 162 x 116	234 x 195 x 146	252 x 205 x 149	364 x 300 x 250	364 x 300 x 250	442 x 300 x 28
184 x 162 x 116	184 x 162 x 116	184 x 162 x 116	294 x 195 x 146	318 x 205 x 149	458 x 300 x 250	458 x 300 x 250	562 x 300 x 28
1.5	1.5	1.8	3.2	4.8	16.0	17.0	25.0
2.0	2.0	2.3	4.5	6.1	20.0	21.5	30.0
8.7	8.7	9.7	13	17	56	56.7	62

IEC switch-disconnector-fuses for use with BS fuses

From 32 to 1250 A

Туре				GSB32	GSB63	GSB100			
Environment				I					
				IEC 60947-3					
	Fuses				3320 & IEC60269/B	S88			
Product certifications				IEC and CCC					
Degree of protection Or conforming to IEC 60529	n Front panel, with	terminal covers		IP 20	IP 20				
	torage		°C	-50+85					
around the device O	peration		°C	-20+70					
Flame resistance Body			°C	960					
conforming to Fu EC 60695-2-1	use cover		°C	- 850					
Pole characteristics foll	lowing IEC 6094	17-1 / IEC 60947	7-3 et EN	i I 60947-1 / EN 6	0947-3				
Number of poles / Number 3	•			•		 			
of fuene	3 poles / Neutral switched NOT Protected			•	-				
·	poles / 4 fuses	2.12.1.10.0000		- -	•	 			
	use size			A1	A2-A3	A4			
			ļ. —						
current	t ambient temperatu		A W	32	63	100			
IVI	Maximum admissible power dissipated by the fuse			2.9	3.8	8.4			
M	aximum power diss	sipated by a pole	W	1.2	4.4	3.7			
	the open air or in	at 40°C	Α	30	60	95			
CU	ubicle	at 50°C	Α	27	54	85			
		at 60°C	Α	24	47	74			
		at 70°C	Α	20	39	62			
Rated insulation voltage (Ui)		50/60 Hz	V	800	800	800			
Rated impulse withstand voltage (Uimp)		kV	8	8	8				
Rated operating voltage - AC ((Ue)	50/60 Hz	٧	690	690	690			
Rated operating voltage - AC 2	20 (Ue)		٧	800	800	800			
Rated operational current Ca	at. AC-22A/B [1]	220/240 V	Α	32	63	100			
at 50/60 Hz		380/415 V	Α	32	63	100			
		660/690 V	Α	32	63	100			
Rated operational current Ca	at. AC-23A/B [1]	220/240 V	Α	32	63	100			
at 50/60 Hz		380/415 V	Α	32	63	100			
		660/690 V	Α	32	63	100			
Rated operational power Ca	at. AC-23A/B [1]	380/415 V	kW	15	30	51			
		660/690 V	kW	_	55	90			
Breaking capacity with fuses ((lq)	400 V	kA rms	_	_	-			
		415 V	kA rms	100	100	80			
		500 V	kA rms	-	_	-			
		690 V	kA rms	80	100	50			
Mechanical durability		in cycle 0/C		10000	10000	10000			
Durability in cycle 0/F Ca	ategory			Category A					
M	echanical	in cycle 0/C		8500	8500	8500			
EI	lectrical	AC22A 415 V		1500	1500	1500			
		AC22A 690 V		1500	1500	1500			
		AC23A 415 V		1500	1500	1500			
		AC23A 690 V		1500	1500	1500			
Sectioning ability				Yes	Yes	Yes			
Fully apparent cut				No	No	No			
Degree of pollution				III	III	III			

^[1] Category "A": frequent operating cycles, category "B": infrequent operating cycles.

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GSB160	GSB200	GSB250	GSB400	GSB630	GSB800	GSB1250
G3D 100	G3B200	G3B230	G3D400	G3D030	930000	G3D1230
IEC 60947-3						
IEC60269/NFC633	320 & IEC60269/BS8	38				
IEC and CCC						
IP 20						
 -50+85						
-20+70						
960						
850						
I=	-	-		-	-	
-	- -	- -	_		- _	_
-	- 	<u> </u>		_ _	- •	-
A4	B1-B2	B1B3	B1B4	C2	C3	D1
160	200	250	400	630	800	1250
15.3	14.3	19.7	29.6	55	70	100
 10.4	8.8	13.8	24.4	61	68	154
152	190	238	382	600	762	1195
136	170	213	345	537	682	1079
119	149	186	305	469	595	955
100	125	156	262	393	499	819
800	800	800	800	1000	1000	1000
8	8	8	8	12	12	12
690	690	690	690	690	690	690
800	800	800	800	1000	1000	1000
160	200	250	400	630	800	1250
160	200	250	400	630	800	1250
160	200	250	400	630	800	1250
160	200	250	400	630	800	1250
160	200	250	400	630	800	1250
-	160	250	315	-	-	-
80	100	132	220	355	450	750
110	150	220	295	295	400	900
-	-	-	-	-	-	-
80	80	80	50	100	100	100
-	_	-	_	-	-	-
50	50	50	50	100	100	100
10000	10000	10000	8000	5000	5000	5000
Category A			Category B			
7000	7000	7000	800	800	500	500
1000	1000	1000	200	200	100	100
1000	1000	1000	200	200	100	100
1000	1000	1000	_	-	-	100
1000	1000	1000	-	_	-	-
Yes	Yes	Yes	Yes	Yes	Yes	Yes
No	No	No	No	No	No	No
III	III	III	III	III	III	III

IEC switch-disconnector-fuses for use with BS fuses

From 32 to 1250 A

Switch-disconnector-fu	se chara	cteristi	cs		
Туре			GSB32	GSB63	GSB100
Installation and connection					
Upstream / Downstream connection			•	•	•
Rear connection			-	-	-
Connexion material and surface treatment			White zinc plated steel	Tinned copper	
Control auxiliaries					
Directe front rotary handle					•
Front extended handle					
Laterale extend handle			•	•	•
Padlocking					
Signaling auxiliaries					
Auxiliary contact with pre-cut information					•
Test position			•		
Installation and connection accessor	ories				
Internal neutral link			-	-	-
External neutral module			_		
Terminal covers			_	_	
Cable connector			_	_	•
Dimensions and weights					
Overall dimensions W x H x D	3P	mm	96 x 98 x 83	136 x 162 x 116	148 x 162 x 116
	4P	mm	96 x 98 x 83	168 x 162 x 116	184 x 162 x 116
Approximate weigth without fuses and	3P	kg	0.5	1.0	1.5
accessories	4P	kg	0.5	1.3	2.0
Operating torque (typical for a 3-pole)		Nm	8.7	8.7	9.7

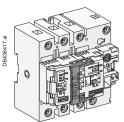
GS1 AM110 and	GS1 AM101 early	brea	k and signaling contact characteristics
Conventional thermal current (Ith) for ambient temperature ≤ 40 °C			10
Rated operational current (le)	Cat. AC-15	Α	120 V: 6 - 240 V: 3 - 400 V: 1.8 - 480 V: 1.5
	Cat. DC-13	Α	24 V: 2.8 - 48 V: 1.4 - 125 V: 0.55 - 250 V: 0.27 - 400 V: 0.15
Durability	Number of operating cycles		Mechanical: 5000000 Electrical: cat. AC-15: 1000000
Cabling	Cable (c.s.a. min/max)	mm²	Min: 1 x 0.22 - max: 2 x 2.5

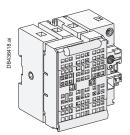
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319E2340

GSB160	GSB200	GSB250	GSB400	GSB630	GSB800	GSB1250
•	•	•			•	=
-	-	-	-			■
Tinned copper						
	-	-	-	_	I_	_
-	-	- =	-	- 	<u>-</u>	<u>-</u>
-	-	- -	-	-	-	- •
-	-	-	-	-	-	- •
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-	-	- •	- •	_	_	-
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-	-	- =	- =	- 	<u>-</u>	<u>-</u>
-	-	- -	-	-	-	-
-	-	- =	- =	- -	_	- -
-	-	-	-	_	_	_
190 x 162 x 136	234 x 195 x 146	234 x 195 x 146	252 x 205 x 149	364 x 300 x 250	364 x 300 x 250	442 x 300 x 289
240 x 162 x 136	294 x 195 x 146	294 x 195 x 146	318 x 205 x 149	458 x 300 x 250	458 x 300 x 250	562 x 300 x 289
2.3	3.2	3.2	4.8	16.0	17.0	25.0
						1 1
2.3	4.5	4.5	6.1	20.0	21.5	30.0
9.7	13	13	17	56	56.7	62

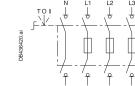
Presentation of the FuPacT GS range FuPacT GSB and GSC 32





FuPacT GSC32

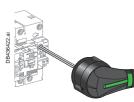
FuPacT GSB32



3 poles, 3 fuse-links

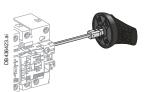
4 poles, 3 fuse-links



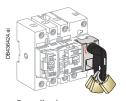


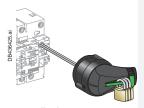
Direct handle

Extended front handles



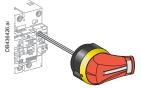
Extended lateral handles





3 padlocks on direct handle

3 padlocks on extended handle





Extended front handles, red handle on yellow front

Extended lateral handles, red handle on yellow front

Functions

The FuPacT GSB32 and GSC32 switch disconnector fuses are used with fuses that protect electrical circuits against overloading and short circuits.

They provide a circuit cut-off function by means of a double break upstream and downstream of the fuses.

They also provide a switch function allowing circuits to be cut-off when under load.

Format and installation

The FuPacT GSC32 and GSB32 devices are compact and monobloc (96 mm wide), thereby optimizing the space used.

The dimensions of the 3- and 4-pole devices are identical.

The devices are installed either on a DIN rail or by means of mounting screws on a plate. The mounting points are incorporated into the products. There is no need to add accessories to fasten the products to a plate.

Number of poles

The devices are available as 3- or 4-pole versions cut-off by the open/close control. The 3P devices are fitted with 3 fuse holders, cut-off upstream and downstream of

The 4P devices are fitted with 3 fuse holders, cut-off upstream and downstream of the fuse and a neutral connection, cut-off, UNPROTECTED.

Controlling the devices

- The devices can be controlled in three ways:
 - ☐ By direct control using reference GS1AH103. This control is fitted directly
 - □ By extended frontal control with a handle installed on the door of the electrical cabinet.
 - □ By extended lateral control with a handle installed on the side of the electrical
- The control rods are available in 3 lengths: 200, 320 or 400 m.

Note: They must be ordered separately.

- Several types of IP65 control handle are available and must be ordered separately
 - ☐ For frontal installation, black or yellow/red with or without test position
 - ☐ For lateral installation, black or yellow/red without test position
- The front handles allow the door to be interlocked with the control rod of the device. This prevents the opening of the door cabinet if the device is in the ON
- The lateral controls do not allow the door and the control rod to be interlocked. They must not be used as a frontal control.

Lockout system

The function whereby the devices can be locked in the OFF position is available on the direct control handle and the extended control handles.

It allows up to 3 padlocks to be fitted on each handle.

Using the devices as emergency switch disconnector fuse

The FuPacT switch disconnector fuse can be used as emergency cut-off devices. For this application, they must be easily visible, accessible and identifiable (see standards and rules: VDE 0660, VDE 0113, CNOMO, etc.).

For the purposes of easy identification, the emergency cut-off switch disconnectors fuse use special colors, as stipulated by the standards and different from those of the standard version:

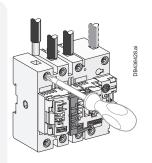
- yellow for the front face of the device or the control plate
- red for the handle.

The performance characteristics of the FuPacT emergency cut-off switch disconnector fuse are the same as those of the standard version.

Presentation of the FuPacT GS range FuPacT GSB and GSC 32

Connecting the devices

The FuPacT GSC32 and GSB32 devices are fitted with screw terminals which can accommodate conductors of 2.5 to 16 mm² cross section.



Fuse type and installation

- GSC 32 supports NF 10*38 cylindrical fuses compliant with IEC60269/NFC63320 standards.
- GSB 32 supports BS A1 fuses compliant with IEC60269/BS88 standards.

Note: The fuses are not supplied with the devices.

- For GSC 32, the fuses are installed in the cover, opened prior to installation.
- For GSB 32, the fuses are installed in the device on the mountings provided for this purpose. Manual tightening is strongly advised in order to comply with the recommended tightening torques (consult the instruction sheet).

Cone guide

This accessory allows the control rod to be re-centred with regard to the hole drilled in the door. It is fitted to the door and serves to offset a drilling discrepancy or a bowing of the long rods of ±10 mm

Auxiliary contacts/Pre cut-off

The GSC32 and GSB32 devices can be fitted with 4 auxiliary contacts enabling the mechanical position of the device to be indicated. 2 auxiliary contacts are fitted directly to the device (see manual) and 2 others can be stacked on top of the first ones.

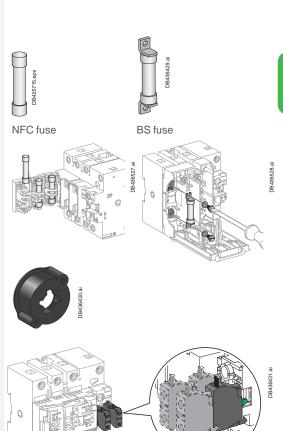
The NO or NC auxiliary contacts thus allow the ON, OFF and TEST positions of the device to be indicated.

The TEST position is indicated if a handle WITH TEST position is used.

The auxiliary contacts also serve to indicate the pre cut-off of the device, as soon as the handle is activated but before the poles are opened.

This allows a charge to be stopped before cutting the main power supply.

- References GS1AM110 and GS1AM101 have 1 auxiliary contact (NO or NC) + 2 plastic tappets.
- References ZBE101 and ZBE102 are the auxiliary contacts alone.
- Reference LV481110 is a packet of 10 plastic tappets.



3 padlocks

on direct handle

single padlock

directly on device

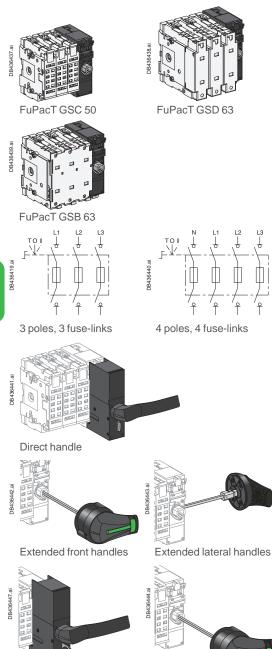
Extended front handles,

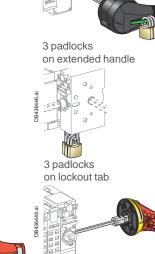
C-18

red handle on yellow front

Life Is On

Presentation of the FuPacT GS range FuPacT GSC 50, GSB and GSD 63





Extended lateral handles,

red handle on yellow front

Schneider

Functions

The FuPacT GSC50, GSB63 and GSD63 switch disconnector fuses are used with fuses that protect electrical circuits against overloading and short circuits.

They provide a circuit cut-off function by means of a double break upstream and downstream of the fuses.

They also provide a switch function allowing circuits to be cut-off when under load.

Format and installation

The FuPacT GSC 50, GSD 63 and GSB 63 devices are compact, optimizing the space used. They consist of poles assembled and tested in factory as well as a housing for the control mechanism.

The transparent covers make it possible to see the presence or absence of fuses and their rating.

The devices are installed either on a DIN rail or by means of mounting screws on a plate. The mounting points are incorporated into the products. There is no need to add accessories to fasten the products to a plate.

Number of poles

The devices are available as 3- or 4-pole versions cut-off by the open/close control. The 3P devices are fitted with 3 fuse holders, cut-off upstream and downstream of the fuse.

The 4P devices are fitted with 4 fuse holders, cut-off upstream and downstream of the fuse. One of the poles may be fitted with a neutral link (see internal neutral links).

Controlling the devices

- The devices can be controlled in three ways:
- By direct control using reference LV481701. This control is fitted directly to the housing of the device control mechanism.
- By extended frontal control with a handle installed on the door of the electrical cabinet.
- □ By extended lateral control with a handle installed on the side of the electrical cabinet.
- The control rods are available in 3 lengths: 200, 320 or 400 m.

Note: They must be ordered separately.

- Several types of IP65 control handle are available and must be ordered separately.
 - □ In the event of frontal installation, black or yellow/red, with or without test position.
 - □ For lateral installation, black or yellow/red, without test position.
- The front handles allow the door to be interlocked with the control rod of the device. This prevents the opening of the door cabinet if the device is in the ON position.
- The lateral controls do not allow the door and the control rod to be interlocked. They must not be used as a frontal control.

Lockout system

The function whereby the devices can be locked in the OFF position is available on the direct control handle and the extended control handles.

It allows up to 3 padlocks to be fitted on each handle.

It is also possible to padlock the devices directly, either on the control unit using a single padlock or a multi-padlock lockout accessory or on the lockout tab located on the lower face of the control unit. This can accommodate up to 3 padlocks.

Using the devices as emergency switch disconnector fuse

The FuPacT switch disconnector fuse can be used as emergency cut-off devices. For this application, they must be easily visible, accessible and identifiable (see standards and rules: VDE 0660, VDE 0113, CNOMO, etc.).

For the purposes of easy identification, the emergency cut-off switch disconnector fuse use special colors, as stipulated by the standards and different from those of the standard version:

- yellow for the front face of the device or the control plate
- red for the handle.

The performance characteristics of the FuPacT emergency cut-off switch disconnector fuse are the same as those of the standard version.

Presentation of the FuPacT GS range FuPacT GSC 50, GSB and GSD 63

Connecting the devices

The FuPacT GSC 50, GSD 63 and GSB 63 devices are fitted with screw terminals which can accommodate conductors of:

- 10 to 25 mm² for the GSC 50
- 16 to 25 mm² for the GSD 63 and GSB 63.

Fuse type and installation

- GSC 50 supports NF 14*51 cylindrical fuses compliant with IEC60269/NFC63320 standards
- GSD 63 supports DIN 000 fuses compliant with IEC60269/NFC63320 standards
- GSB 63 supports BS A2 and A3 fuses compliant with IEC60269/BS88 standards

Note: The fuses are not supplied with the devices.

- For GSC 50 and GSD 63, the fuses are installed by rotating the transparent protective cover, with the power supply switched off, then inserting the fuses in the fuse holders.
- For GSB 63, the fuses are installed by removing the transparent protective cover, with the power supply switched off, then installing the fuses on the mounitng provided for this purpose. Manual tightening is strongly advised in order to comply with the recommended tightening torques (consult the device manual).

External neutral module and internal neutral link

The NFC 50A and DIN 63A (LV481911 and LV481913) neutral links create a neutral connection in the device. The links are fitted instead of a fuse.

The external neutral modules are poles fitted with a removable neutral connection which is NOT CUT (no mechanism).

They are installed directly on the left-hand side of the product on the 3-pole device.

Cone guide

This accessory allows the control rod to be re-centred with regard to the hole drilled in the door. It is fitted to the door and serves to offset a drilling discrepancy or a bowing of the long rods of ± 10 mm.

Auxiliary contacts / Pre cut-off

The FuPacT GSC 50, GSB 63 and GSD 63 devices can be fitted with 4 auxiliary contacts enabling the mechanical position of the device to be indicated.

2 auxiliary contacts are fitted directly to the device (see manual) and 2 others can be stacked on top of the first ones.

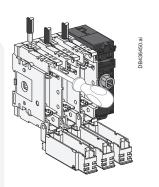
The NO or NC auxiliary contacts thus allow the ON, OFF and TEST positions of the device to be indicated

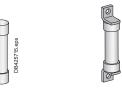
The TEST position is indicated if a handle WITH TEST position is used

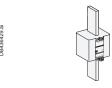
The auxiliary contacts also serve to indicate the pre cut-off of the device, as soon as the handle is activated but before the poles are opened.

This allows a charge to be stopped before cutting the main power supply.

- References GS1AM110 and GS1AM101 have 1 auxiliary contact (NO or NC)
 + 2 plastic tappets.
- References ZBE101 and ZBE102 are the auxiliary contacts alone Reference LV481110 is a packet of 10 plastic tappets

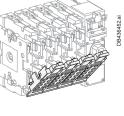


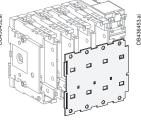


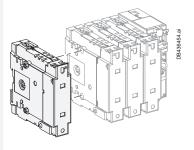


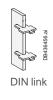
NFC fuse BS fuse

DIN fuse

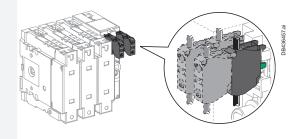




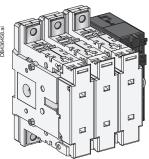








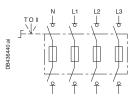
Presentation of the FuPacT GS range FuPacT GSB 100, GSC and GSD 125, GSB and GSD 160



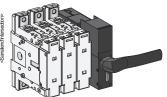
FuPacT GSB 100



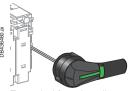
3 poles, 3 fuse-links



4 poles, 4 fuse-links



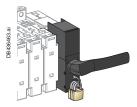
Direct handle



Extended front handles



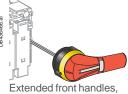
Extended lateral handles



3 padlocks on direct handle



single padlock directly on device

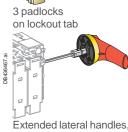


red handle on yellow front



C-20

Life Is On



on extended handle

red handle on yellow front

Schneider

Functions

The FuPacT GSB 100, GSC and GSD 125, GSD and GSB 160 switch disconnector fuses are used with fuses that protect electrical circuits against overloading and

They provide a circuit cut-off function by means of a double break upstream and downstream of the fuses.

They also provide a switch function allowing circuits to be cut-off when under load.

Format and installation

The FuPacT GSB 100, GSC and GSD 125, GSD and GSB 160 devices are compact, optimizing the space used.

They consist of poles assembled and tested in factory as well as a housing for the control mechanism.

The transparent covers make it possible to see the presence or absence of fuses and their rating.

The devices are installed on a plate. The mounting points are incorporated into the products. There is no need to add accessories to fasten the products to a plate.

Number of poles

The devices are available as 3- or 4-pole versions cut-off by the open/close control. The 3P devices are fitted with 3 fuse holders, cut-off upstream and downstream of

The 4P devices are fitted with 4 fuse holders, cut-off upstream and downstream of the fuse. One of the poles may be fitted with a neutral links.

Controlling the devices

- The devices can be controlled in three ways:
- □ By direct control using reference LV481701. This control is fitted directly to the housing of the device control mechanism.
- □ By extended frontal control with a handle installed on the door of the electrical cabinet.
- □ By extended lateral control with a handle installed on the side of the electrical cabinet.
- The control rods are available in 3 lengths: 200, 320 or 400 m.

Note: They must be ordered separately.

- Several types of IP65 control handle are available and must be ordered separately.
 - □ In the event of frontal installation, black or yellow/red, with or without test position.
 - □ For lateral installation, black or yellow/red, without test position.
- The front handles allow the door to be interlocked with the control rod of the device. This prevents the opening of the door cabinet if the device is in the ON
- The lateral controls do not allow the door and the control rod to be interlocked. They must not be used as a frontal control.

Lockout system

The function whereby the devices can be locked in the OFF position is available on the direct control handle and the extended control handles.

It allows up to 3 padlocks to be fitted on each handle.

It is also possible to padlock the devices directly, either on the control unit using a single padlock or a multi-padlock lockout accessory or on the lockout tab located on the lower face of the control unit. This can accommodate up to 3 padlocks.

Using the devices as emergency switch disconnector fuse

The FuPacT switch disconnector fuse can be used as emergency cut-off devices. For this application, they must be easily visible, accessible and identifiable (see standards and rules: VDE 0660, VDE 0113, CNOMO, etc.).

For the purposes of easy identification, the emergency cut-off switch disconnector fuse use special colors, as stipulated by the standards and different from those of the standard version:

- yellow for the front face of the device or the control plate
- red for the handle.

The performance characteristics of the FuPacT emergency cut-off switch disconnector fuse are the same as those of the standard version.

Presentation of the FuPacT GS range FuPacT GSB 100, GSC and GSD 125, GSB and GSD 160

Connecting the devices

The FuPacT GSB 100, GSC and GSD 125, GSD and GSB 160 devices are fitted with tin-plated terminal to connect conductors fitted with cable lugs.

Connection accessories can be used to connect directly conductors without cable lugs. The accessories are fitted to the terminal and accommodate the bare conductors.

FuPacT GSB 100, GSC and GSD 125, GSD and GSB 160: GS1AW33 (set of 3) or GS1AW34 (set of 4).

In order to protect the direct contact connections, terminal covers may be used.

- For FuPacT GSB 100, GSC and GSD 125: GS1AP33 (set of 3) or GS1AP34 (set of 4).
- For FuPacT GSD and GSB 160: GS1AP43 (set of 3) or GS1AP44 (set of 4).

Fuse type and installation

- GSB 100 support BS A4 fuses compliant with IEC60269/BS88 standards.
- GSC 125 support NF 22*58 cylindrical fuses compliant with IEC60269/NFC63320 standards.
- GSD 125 and GSD 160 support DIN 00 fuses compliant with IEC60269/ NFC63320 standards.
- GSB 160 support BS A4 fuses compliant with IEC60269/BS88 standards.

Note: The fuses are not supplied with the devices.

- For all FuPacT GSC and GSD 125, GSD 160, the fuses are installed by rotating the transparent protective cover, with the power supply switched off, then inserting the fuses in the fuse holders.
- For the FuPacT GSB 100, GSB 160, the fuses are installed by rotating the transparent protective cover, with the power supply switched off, then installing the fuses in the housings provided for this purpose. Manual tightening is strongly advised in order to comply with the recommended tightening torques (consult the device manual).

External neutral module and internal neutral link

The NFC 125A and DIN 125A (LV481912 and LV481913) neutral links create a neutral connection in the device. The links are fitted instead of a fuse.

The external neutral modules are poles fitted with a removable neutral connection which is NOT CUT (no mechanism).

They are installed directly on the left-hand side of the product on the 3-pole device.

Cone guide

This accessory allows the control rod to be re-centred with regard to the hole drilled in the door. It is fitted to the door and serves to offset a drilling discrepancy or a bowing of the long rods of ± 10 mm.

Auxiliary contacts / Pre cut-off

The FuPacT GSB 100, GSC and GSD 125, GSD and GSB 160 devices can be fitted with 4 auxiliary contacts enabling the mechanical position of the device to be indicated.

2 auxiliary contacts are fitted directly to the device (see manual) and 2 others can be stacked on top of the first ones.

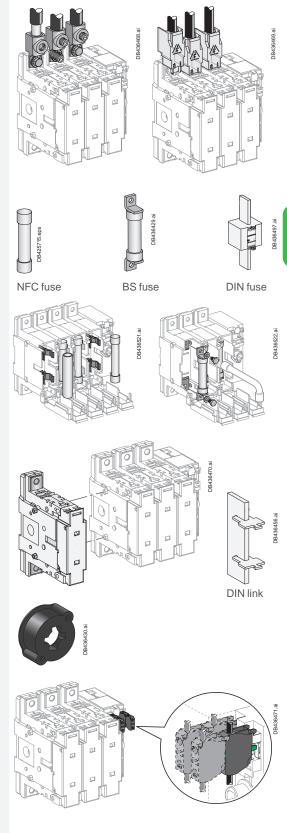
The NO or NC auxiliary contacts thus allow the ON, OFF and TEST positions of the device to be indicated

The TEST position is indicated if a handle WITH TEST position is used

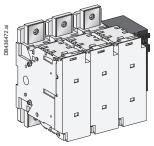
The auxiliary contacts also serve to indicate the pre cut-off of the device, as soon as the handle is activated but before the poles are opened.

This allows a charge to be stopped before cutting the main power supply.

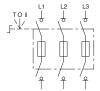
- References GS1AM110 and GS1AM101 have 1 auxiliary contact (NO or NC) + 2 plastic tappets.
- References ZBE101 and ZBE102 are the auxiliary contacts alone.
- Reference LV481110 is a packet of 10 plastic tappets.



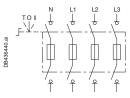
Presentation of the FuPacT GS range FuPacT GSB 200, GSB and GSD 250, GSB and GSD 400



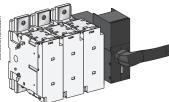
FuPacT GSB 250



3 poles, 3 fuse-links



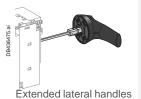
4 poles, 4 fuse-links



Direct handle



Extended front handles





3 padlocks

3 padlocks

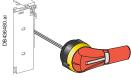
on lockout tab

on extended handle

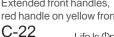
3 padlocks on direct handle



single padlock directly on device



Extended front handles, red handle on yellow front



Life Is On

Extended lateral handles. red handle on yellow front

Schneider

Functions

The FuPacT GSB 200, GSD and GSB 250, GSD and GSB 400 switch disconnector fuses are used with fuses that protect electrical circuits against overloading and

They provide a circuit cut-off function by means of a double break upstream and downstream of the fuses.

They also provide a switch function allowing circuits to be cut-off when under load.

Format and installation

The FuPacT GSB 200, GSD and GSB 250, GSD and GSB 400 devices are compact, optimizing the space used.

They consist of poles assembled and tested in factory as well as a housing for the control mechanism.

The transparent covers make it possible to see the presence or absence of fuses

The devices are installed on a plate. The mounting points are incorporated into the products. There is no need to add accessories to fasten the products to a plate.

Number of poles

The devices are available as 3- or 4-pole versions cut-off by the open/close control. The 3P devices are fitted with 3 fuse holders, cut-off upstream and downstream of

The 4P devices are fitted with 4 fuse holders, cut-off upstream and downstream of the fuse. One of the poles may be fitted with a neutral links.

Controlling the devices

- The devices can be controlled in three ways:
 - $\hfill \square$ By direct control using reference LV481702. This control is fitted directly to the housing of the device control mechanism.
 - $\hfill\Box$ By extended frontal control with a handle installed on the door of the electrical cabinet.
 - ☐ By extended lateral control with a handle installed on the side of the electrical cabinet.
- The control rods are available in 3 lengths: 200, 320 or 400 m.

Note: They must be ordered separately.

- Several types of IP65 control handle are available and must be ordered separately.
 - □ In the event of frontal installation, black or yellow/red, with or without test position.
 - □ For lateral installation, black or yellow/red, without test position.
- The front handles allow the door to be interlocked with the control rod of the device. This prevents the opening of the door cabinet if the device is in the ON
- The lateral controls do not allow the door and the control rod to be interlocked. They must not be used as a frontal control.

Lockout system

The function whereby the devices can be locked in the OFF position is available on the direct control handle and the extended control handles.

It allows up to 3 padlocks to be fitted on each handle.

It is also possible to padlock the devices directly, either on the control unit using a single padlock or a multi-padlock lockout accessory or on the lockout tab located on the lower face of the control unit. This can accommodate up to 3 padlocks.

Using the devices as emergency switch disconnector fuse

The FuPacT switch disconnector fuse can be used as emergency cut-off devices.

For this application, they must be easily visible, accessible and identifiable (see standards and rules: VDE 0660, VDE 0113, CNOMO, etc.).

For the purposes of easy identification, the emergency cut-off switch disconnectors fuse use special colors, as stipulated by the standards and different from those of the standard version:

- yellow for the front face of the device or the control plate
- red for the handle.

The performance characteristics of the FuPacT emergency cut-off switch disconnector fuse are the same as those of the standard version.

Presentation of the FuPacT GS range FuPacT GSB 200, GSB and GSD 250, GSB and GSD 400

Connecting the devices

The FuPacT GSB200, GSD and GSB 250, GSD and GSB 400 devices are fitted with tin-plated terminal to connect conductors fitted with cable lugs.

Connection accessories can be used to connect directly conductors without cable lugs. The accessories are fitted to the terminal and accommodate the bare conductors.

- FuPacT GSB 200: GS1AW43 (set of 3) or GS1AW44 (set of 4).
- FuPacT GSD and GSB 250: GS1AW43 (set of 3) or GS1AW44 (set of 4).
- FuPacT GSD and GSB 400: LV481203 (set of 3) or LV481204 (set of 4).

In order to protect the direct contact connections, terminal covers may be used. For FuPacT GSB 200, GSD and GSB 250, GSD and GSB 400:

- GS1AP43 (set of 3)
- GS1AP44 (set of 4)

Fuse type and installation

- GSB 200 supports BS B1 and B2 fuses compliant with IEC60269/BS88 standards.
- GSD 250 supports DIN 1 fuses compliant with IEC60269/NFC63320 standards.
 GSB 250 supports BS B1, B2 and B3 fuses compliant with IEC60269/BS88
- GSB 250 supports BS B1, B2 and B3 fuses compliant with IEC60269/BS88 standards.
- GSD 400 supports DIN 2 fuses compliant with IEC60269/NFC63320 standards.
- The GSB 400 support BS B1, B2, B3 and B4 fuses compliant with IEC60269/BS88 standards.

Note: The fuses are not supplied with the devices.

- For all FuPacT GSD 250 and GSD 400, the fuses are installed by rotating the transparent protective cover, with the power supply switched off, then inserting the fuses in the fuse holders.
- For the FuPacT GSB 200, GSB 250 and GSB 400, the fuses are installed by rotating the transparent protective cover, with the power supply switched off, then installing the fuses in the housings provided for this purpose. Manual tightening is strongly advised in order to comply with the recommended tightening torques (consult the device manual).

External neutral module and internal neutral link

The DIN 250 and DIN 400A (LV481915 and LV481916) neutral links create a neutral connection in the device. The links are fitted instead of a fuse.

The external neutral modules are poles fitted with a removable neutral connection which is NOT CUT (no mechanism).

They are installed directly on the left-hand side of the product on the 3-pole device.

Cone guide

This accessory allows the control rod to be re-centred with regard to the hole drilled in the door. It is fitted to the door and serves to offset a drilling discrepancy or a bowing of the long rods of ± 10 mm.

Auxiliary contacts / Pre cut-off

The FuPacT GSB 200, GSD and GSB 250, GSD and GSB 400 devices can be fitted with 8 auxiliary contacts enabling the mechanical position of the device to be indicated. 4 auxiliary contacts are fitted directly to the device (see manual) and 4 others can be stacked on top of the first ones.

Note: if using an LV481702 direct control fitted with its auxiliary contacts protective cover, the number of contacts that can be used is reduced to 4.

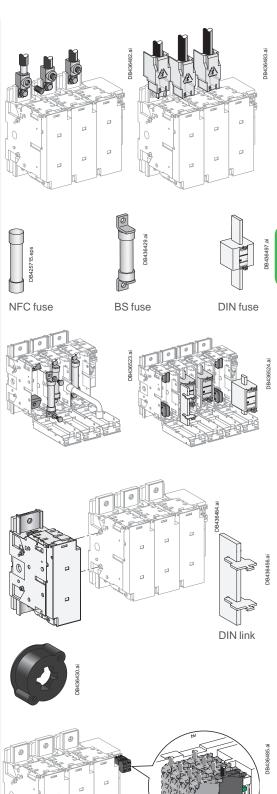
The NO or NC auxiliary contacts thus allow the ON, OFF and TEST positions of the device to be indicated.

The TEST position is indicated if a handle WITH TEST position is used

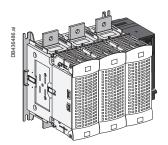
The auxiliary contacts also serve to indicate the pre cut-off of the device, as soon as the handle is activated but before the poles are opened.

This allows a charge to be stopped before cutting the main power supply.

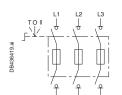
- References GS1AM110 and GS1AM101 have 1 auxiliary contact (NO or NC) + 2 plastic tappets.
- References ZBE101 and ZBE102 are the auxiliary contacts alone.
- Reference LV481110 is a packet of 10 plastic tappets.



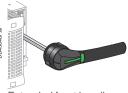
Presentation of the FuPacT GS range FuPacT GSB and GSD 630, GSB and GSD 800



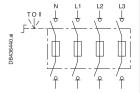
FuPacT GSB 630



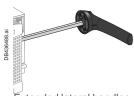




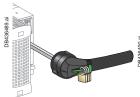
Extended front handles



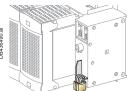
4 poles, 4 fuse-links



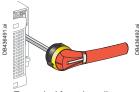
Extended lateral handles



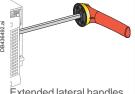
3 padlocks on extended handle



3 padlocks directly on the device



Extended front handles, red handle on yellow front



Extended lateral handles. red handle on yellow front

Functions

The FuPacT GSD and GSB 630, GSD and GSB 800 switch disconnector fuses are used with fuses that protect electrical circuits against overloading and short circuits. They provide a circuit cut-off function by means of a double break upstream and downstream of the fuses.

They also provide a switch function allowing circuits to be cut-off when under load.

Format and installation

The GSD and GSB 630, GSD and GSB 800 devices are compact, optimizing the

They consist of poles assembled and tested in factory as well as a housing for the control mechanism.

The transparent covers make it possible to see the presence or absence of fuses and their rating.

The devices are installed on a plate. The mounting points are incorporated into the products. There is no need to add accessories to fasten the products to a plate.

Note: The weight of the devices may require the intervention of 2 people when installing on a

Number of poles

The devices are available as 3- or 4-pole versions cut-off by the open/close control. The 3P devices are fitted with 3 fuse holders, cut-off upstream and downstream of

The 4P devices are fitted with 4 fuse holders, cut-off upstream and downstream of the fuse. One of the poles may be fitted with a neutral bar.

Controlling the devices

- The devices can be controlled in two ways:
 - □ By extended frontal control with a handle installed on the door of the electrical
 - $\hfill \square$ By extended lateral control with a handle installed on the side of the electrical
- The control rods are available in 3 lengths: 200, 320 or 400 m.

Note: They must be ordered separately.

- Several types of IP65 control handle are available and must be ordered separately ☐ For frontal installation, black or yellow/red without test position.

 - □ For lateral installation, black or yellow/red without test position.
- The front handles allow the door to be interlocked with the control rod of the device. This prevents the opening of the door cabinet if the device is in the ON
- The lateral controls do not allow the door and the control rod to be interlocked. They must not be used as a frontal control.

Lockout system

The function whereby the devices can be locked in the OFF position is available on the direct control handle and the extended control handles.

It allows up to 3 padlocks to be fitted on each handle

It is also possible to padlock the devices on the control unit directly using the padlocking lug accessible on the front panel of the control unit. This lug can accommodate up to 3 padlocks.

Using the devices as emergency switch disconnector fuse

The FuPacT switch disconnectors fuse can be used as emergency cut-off devices. For this application, they must be easily visible, accessible and identifiable (see standards and rules: VDE 0660, VDE 0113, CNOMO, etc.).

For the purposes of easy identification, the emergency cut-off switch disconnector fuse use special colors, as stipulated by the standards and different from those of the standard version:

- yellow for the front face of the device or the control plate
- red for the handle.

The performance characteristics of the FuPacT emergency cut-off switch disconnector fuse are the same as those of the standard version.

Presentation of the FuPacT GS range FuPacT GSB and GSD 630, GSB and GSD 800

Connecting the devices

The FuPacT GSD and GSB 630, GSD and GSB 800 devices are fitted with tin-plated terminal to connect directly conductors fitted with cable lugs or bars.

To facilitate rear connections, the connection terminal can be rotated.

In order to protect the direct contact connections, terminal covers may be used. For FuPacT GSD and GSB 630, GSD and GSB 800:

- GS2AP73 (set of 3)
- GS2AP64 (set of 4).

Fuse type and installation

- GSD 630 and GSD 800 supports DIN 3 fuses compliant with IEC60269/ NFC63320 standards.
- GSB 630 and GSB 800 supports BS C2 and C3 fuses respectively compliant with IEC60269/BS88 standards.

Note: The fuses are not supplied with the devices.

- For FuPacT GSD 630 and 800, the fuses are installed by rotating the transparent protective cover, with the power supply switched off, then inserting the fuses in the fuse holders.
- For FuPacT GSB 630 and GSB 800, the fuses are installed by rotating the transparent protective cover, with the power supply switched off, then installing the fuses in the housings provided for this purpose. Manual tightening is strongly advised in order to comply with the recommended tightening torques (consult the device manual).

External neutral module and internal neutral bar

The DIN 630 and DIN 800A (LV481917) neutral links create a neutral connection in the device. The links are fitted instead of a fuse.

The external neutral modules are poles fitted with a removable neutral connection which is NOT CUT (no mechanism).

They are installed directly on the left-hand side of the product on the 3-pole device.

Cone guide

This accessory allows the control rod to be re-centred with regard to the hole drilled in the door. It is fitted to the door and serves to offset a drilling discrepancy or a bowing of the long rods of ±10 mm.

Auxiliary contacts / Pre cut-off

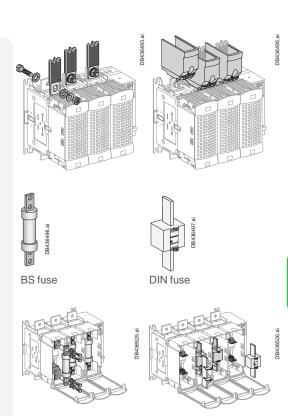
FuPacT GSD and GSB 630, GSD and GSB 800 devices can be fitted with 8 auxiliary contacts enabling the mechanical position of the device to be indicated. 4 auxiliary contacts are fitted directly to the device (see manual) and 4 others can be stacked on top of the first ones.

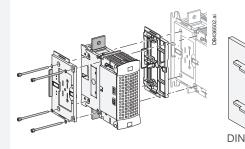
The NO or NC auxiliary contacts thus allow the ON and OFF positions of the device to be indicated

The auxiliary contacts also serve to indicate the pre cut-off of the device, as soon as the handle is activated but before the poles are opened.

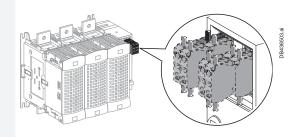
This allows a charge to be stopped before cutting the main power supply.

- References GS1AM110 and GS1AM101 have 1 auxiliary contact (NO or NC) + 2 plastic tappets.
- References ZBE101 and ZBE102 are the auxiliary contacts alone.
- Reference LV481110 is a packet of 10 plastic tappets.

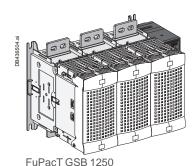


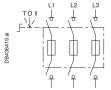




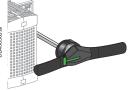


Presentation of the FuPacT GS range FuPacT GSB and GSD 1250

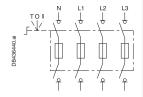




3 poles, 3 fuse-links



Extended front handles



4 poles, 4 fuse-links

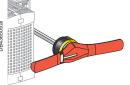


Extended lateral handles

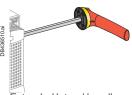


on extended handle





Extended front handles, red handle on yellow front



Extended lateral handles, red handle on yellow front

Functions

The FuPacT GSD and GSB 1250 A switch disconnector fuses are used with fuses that protect electrical circuits against overloading and short circuits.

They provide a circuit cut-off function by means of a double break upstream and

They also provide a switch function allowing circuits to be cut-off when under load.

Format and installation

The GSD and GSB 1250 A devices are compact, optimizing the space used. They consist of poles assembled and tested in factory as well as a housing for the control mechanism

The transparent covers make it possible to see the presence or absence of fuses

The devices are installed on a plate. The mounting points are incorporated into the products. There is no need to add accessories to fasten the products to a plate. Note: The weight of the devices may require the intervention of 2 people when installing on a

Number of poles

The devices are available as 3- or 4-pole versions cut-off by the open/close control. The 3P devices are fitted with 3 fuse holders, cut-off upstream and downstream of

The 4P devices are fitted with 4 fuse holders, cut-off upstream and downstream of the fuse. One of the poles may be fitted with a neutral bar.

Controlling the devices

- The devices can be controlled in two ways:
 - □ By extended frontal control with a handle installed on the door of the electrical
 - □ By extended lateral control with a handle installed on the side of the electrical cabinet.
- The control rods are available in 3 lengths: 200, 320 or 400 m. Note: They must be ordered separately.
- Several types of IP65 control handle are available and must be ordered separately
 - ☐ For frontal installation, black or yellow/red without test position
 - □ For lateral installation, black or yellow/red without test position
- The frontal handles for the FuPacT GSD and GSB 1250 A devices are relatively wide dual-branch handles. Remember to provide for an installation allowing the control to be activated easily.
- The front handles allow the door to be interlocked with the control rod of the device. This prevents the opening of the door cabinet if the device is in the ON
- The lateral controls do not allow the door and the control rod to be interlocked. They must not be used as a frontal control.

Lockout system

The function whereby the devices can be locked in the OFF position is available on the direct control handle and the extended control handles.

It allows up to 3 padlocks to be fitted on each handle.

It is also possible to padlock the devices on the control unit directly using the padlocking lug accessible on the front panel of the control unit. This lug can accommodate up to 3 padlocks.

Using the devices as emergency switch disconnector fuse

The FuPacT switch disconnectors fuse can be used as emergency cut-off devices.

For this application, they must be easily visible, accessible and identifiable (see standards and rules: VDE 0660, VDE 0113, CNOMO, etc.).

For the purposes of easy identification, the emergency cut-off switch disconnector fuse use special colors, as stipulated by the standards and different from those of the standard version:

- yellow for the front face of the device or the control plate
- red for the handle.

The performance characteristics of the FuPacT emergency cut-off switch disconnector fuse are the same as those of the standard version.

Presentation of the FuPacT GS range FuPacT GSB and GSD 1250

Connecting the devices

The FuPacT GSD and GSB 1250 A devices are fitted with tin-plated terminal to connect directly conductors fitted with cable lugs or bars.

To facilitate rear connections, the connection terminal can be rotated.

In order to protect connections from direct contact, terminal covers may be used. For FuPacT GSD and GSB 1250 A:

- GS2AP83 (set of 3)
- GS2AP84 (set of 4).

Fuse type and installation

- The GSD 1250 supports DIN 4 fuses compliant with IEC60269/NFC63320 standards
- The GSB 1250 devices support BS D1 fuses compliant with IEC60269/BS88 standards.

Note: The fuses are not supplied with the devices.

- For FuPacT GSD 1250, the fuses are installed by rotating the transparent protective cover, with the power supply switched off, then inserting the fuses in the fuse holders. The fuse holder terminal must be tightened for correct installation of the fuses
- For FuPacT GSB 1250, the fuses are installed by rotating the transparent protective cover, with the power supply switched off, then installing the fuses in the housings provided for this purpose. Manual tightening is strongly advised in order to comply with the recommended tightening torques (consult the device manual).

External neutral module and internal neutral link

The DIN 1250A (LV481918) neutral links create a neutral connection in the device. The links are fitted instead of a fuse.

The external neutral modules are poles fitted with a removable neutral connection which is NOT CUT (no mechanism).

They are installed directly on the left-hand side of the product on the 3-pole device.

Cone guide

This accessory allows the control rod to be re-centred with regard to the hole drilled in the door. It is fitted to the door and serves to offset a drilling discrepancy or a bowing of the long rods of ± 10 mm.

Auxiliary contacts / Pre cut-off

FuPacT GSD and GSB 1250A devices can be fitted with 8 auxiliary contacts enabling the mechanical position of the device to be indicated.

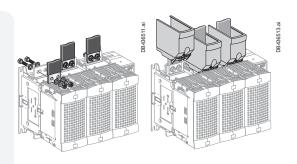
4 auxiliary contacts are fitted directly to the device (see manual) and 4 others can be stacked on top of the first ones.

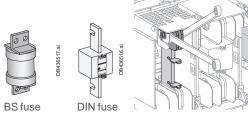
The NO or NC auxiliary contacts thus allow the ON and OFF positions of the device to be indicated

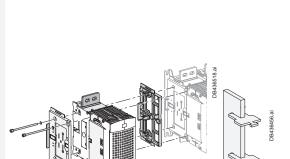
The auxiliary contacts also serve to indicate the pre cut-off of the device, as soon as the handle is activated but before the poles are opened.

This allows a charge to be stopped before cutting the main power supply.

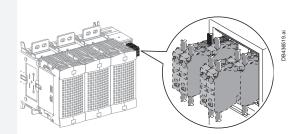
- References GS1AM110 and GS1AM101 have 1 auxiliary contact (NO or NC) + 2 plastic tappets.
- References ZBE101 and ZBE102 are the auxiliary contacts alone.
- Reference LV481110 is a packet of 10 plastic tappets.











DIN link

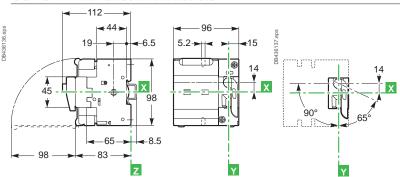
FuPacT GS 32 A

Dimensions

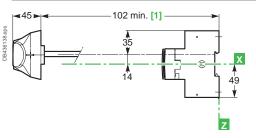
Dimensions

GSC 32 A with direct front handle **-6.5** ₹8.5 21.5 → -65z

GSB 32 A with direct front handle

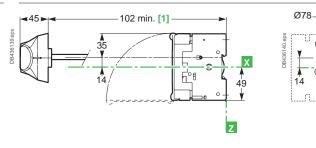


GSC 32 A with extended front handle

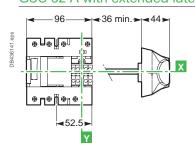


[1] With 1 or 2 auxiliary contacts GS1 AM1 ••: 130 mm. With 3 or 4 auxiliary contacts GS1 AM1 ••: 155 mm.

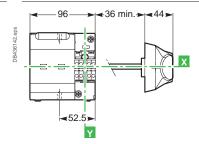
GSB 32 A with extended front handle

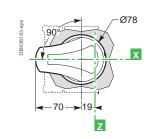


GSC 32 A with extended lateral handle



GSB 32 A with extended lateral handle

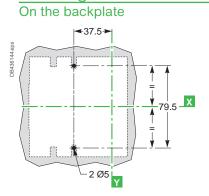




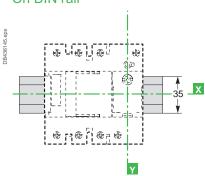
FuPacT GS 32 A

Mounting and front panel cut-outs

Mounting

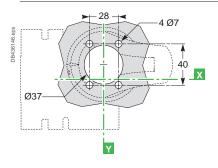


On DIN rail

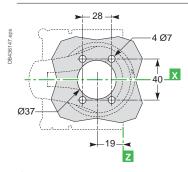


Front panel cut-outs

Extended front handle

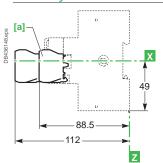


Extended lateral handle



Accessories

Auxiliary contacts



[c] 1 to 4 auxiliary contacts GS1 AM1...

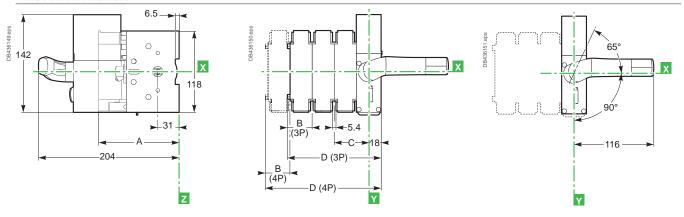
X

FuPacT GS 50/63 A

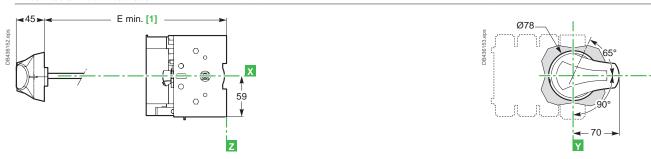
Dimensions

Dimensions

Direct front handle

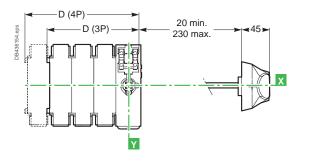


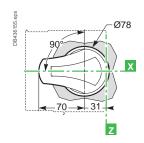
Extended front handle



[1] FuPacT GS 50 A: 1 auxiliary contact GS1 AM1 ••: E + 23.5 mm, 2 auxiliary contacts GS1 AM1 ••: E + 47 mm.

Extended lateral handle



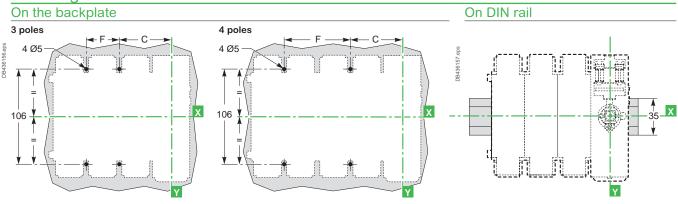


Туре		Α	В	С	D	E min.	F	G	Н	I
GSC 50 A	3P	87	31	45	121	100	27	110.5	134	31
	4P	87	31	45	148	100	54	110.5	134	-
GSB/GSD 63 A	3P	116.5	36	50	136	139	32	108.5	132	36
	4P	116.5	36	50	168	139	64	108.5	132	-

FuPacT GS 50/63 A

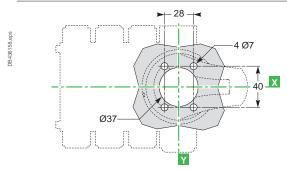
Mounting and front panel cut-outs



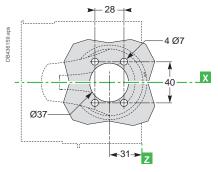


Front panel cut-outs

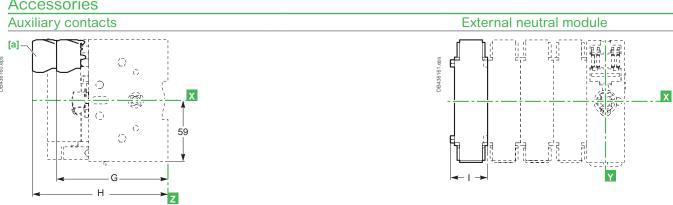
Extended front handle



Extended lateral handle



Accessories



108.5 132

[c] 1 to 4 auxiliary contacts GS1 AM1													
Туре		Α	В	С	D	E min.	F	G	Н	I			
GSC 50 A	3P	87	31	45	121	100	27	110.5	134	31			
	4P	87	31	45	148	100	54	110.5	134	-			
GSB/GSD 63 A	3P	116.5	36	50	136	139	32	108.5	132	36			

50

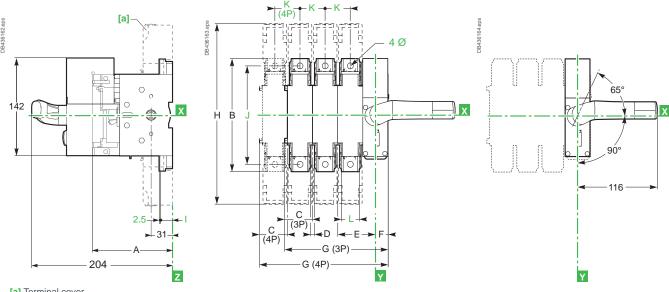
116.5 36

FuPacT GS 100/160 A

Dimensions

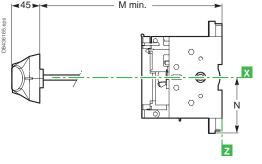
Dimensions

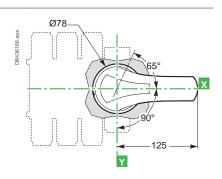
Direct front handle



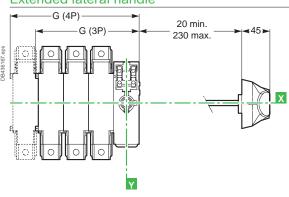
[a] Terminal cover.

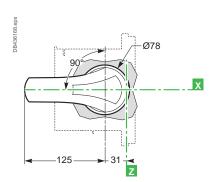
Extended front handle





Extended lateral handle



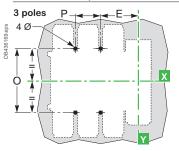


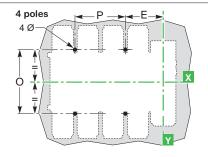
Туре		Α	В	С	D	E min.	F	G	Н	1	J	K	L	Ø	M min.	N
GSB 100 A	3P	116	162	40	5.4	54	18	148	268	19.5	141	36	20	8.5	135	81
	4P	116	162	40	5.4	54	18	184	268	19.5	141	36	20	8.5	135	81
GSC 125 A	3P	116	162	40	5.4	54	18	148	268	19.5	141	36	20	8.5	135	81
	4P	116	162	40	5.4	54	18	184	268	19.5	141	36	20	8.5	135	81
GSD 125 A	3P	126.5	162	40	5.4	54	18	148	268	19.5	141	36	20	8.5	135	81
	4P	126.5	162	40	5.4	54	18	184	268	19.5	141	36	20	8.5	135	81
GSD 160 A	3P	126.5	162	40	5.4	54	18	148	268	19.5	141	36	20	8.5	135	81
	4P	126.5	162	40	5.4	54	18	184	268	19.5	141	36	20	8.5	135	81
GSB 160 A	3P	136.5	162	54	5.4	64	18	190	268	19.5	141	50	20	8.5	145	81
	4P	136.5	162	54	5.4	64	18	240	268	19.5	141	50	20	8.5	145	81

FuPacT GS 100/160 A Mounting and front panel cut-outs

Mounting

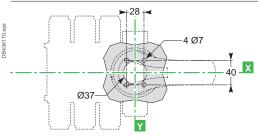
On the backplate



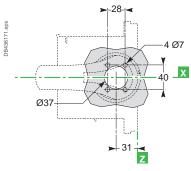


Front panel cut-outs

Extended front handle

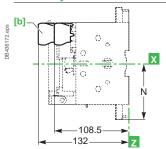


Extended lateral handle



Accessories

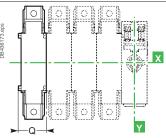
Auxiliary contacts



	◄	_132	→ Z	
[b] 1	to 4 aux	iliary conta	cts GS1 Al	M1●●.

Type		E	0	Р	Ø	Q
GSB 100 A	3P	54	127	36	5	40
	4P	54	127	72	5	-
GSC 125 A	3P	54	127	36	5	40
	4P	54	127	72	5	-
GSD 125 A	3P	54	127	36	5	40
	4P	54	127	72	5	-
GSD 160 A	3P	54	127	36	5	40
	4P	54	127	72	5	-
GSB 160 A	3P	64	140	50	5	54
	4P	64	140	100	5	-

External neutral module

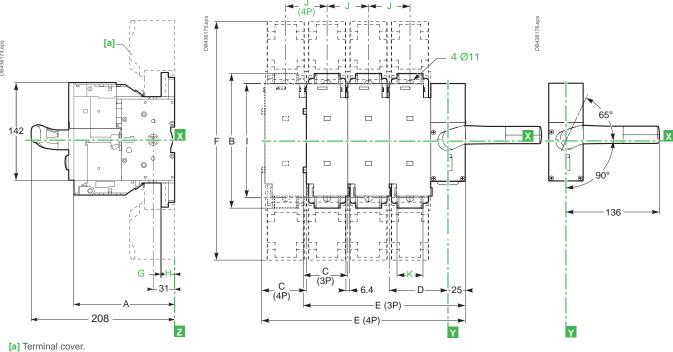


Fu**PacT** GS 200/400 A

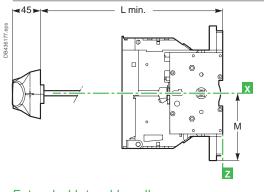
Dimensions

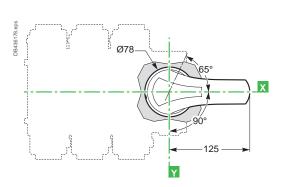
Dimensions



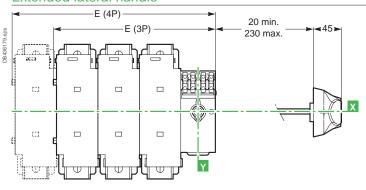


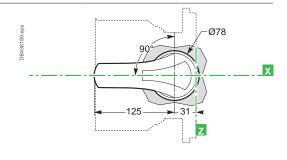
Extended front handle





Extended lateral handle





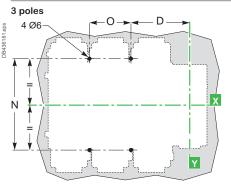
Туре		Α	В	С	D	E	F	G	Н	1	J	K	L min.	M	N	0	Р
GSB 200 A	3P	146	195	64	86	234	345	2.5	19.5	166	60	32	154	97.5	162	60	64
	4P	146	195	64	86	294	345	2.5	19.5	166	60	32	154	97.5	162	120	-
GS 250 A	3P	146	195	64	86	234	345	2.5	19.5	166	60	32	154	97.5	162	60	64
	4P	146	195	64	86	294	345	2.5	19.5	166	60	32	154	97.5	162	120	-
GS 400 A	3P	149	205	70	91	252	355	3	20	175	66	50	157	102.5	172	66	70
	4P	149	205	70	91	318	355	3	20	175	66	50	157	102.5	172	132	-

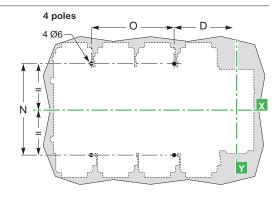
FuPacT GS 200/400 A

Mounting and front panel cut-outs



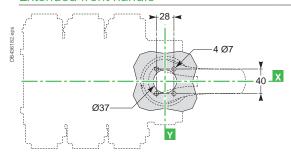




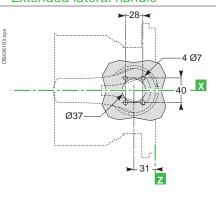


Front panel cut-outs

Extended front handle

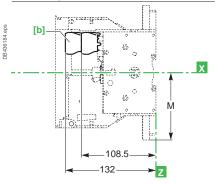


Extended lateral handle



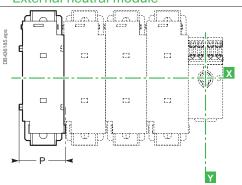
Accessories

Auxiliary contacts





External neutral module



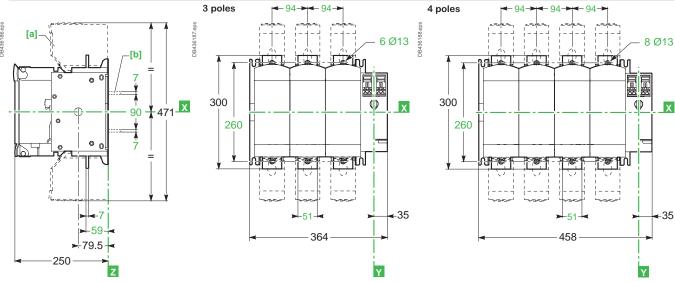
Туре		Α	В	С	D	E	F	G	Н	1	J	K	L min.	M	N	0	Р
GSB 200 A	3P	146	195	64	86	234	345	2.5	19.5	166	60	32	154	97.5	162	60	64
	4P	146	195	64	86	294	345	2.5	19.5	166	60	32	154	97.5	162	120	-
GS 250 A	3P	146	195	64	86	234	345	2.5	19.5	166	60	32	154	97.5	162	60	64
	4P	146	195	64	86	294	345	2.5	19.5	166	60	32	154	97.5	162	120	-
GS 400 A	3P	149	205	70	91	252	355	3	20	175	66	50	157	102.5	172	66	70
	4P	149	205	70	91	318	355	3	20	175	66	50	157	102.5	172	132	-

Fu**PacT** GS 630/800 A

Dimensions

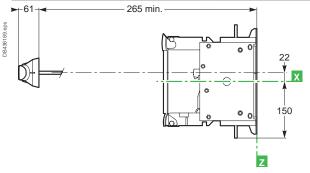
Dimensions

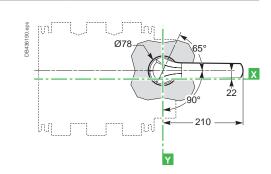




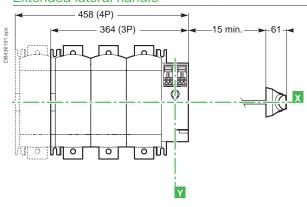
- [a] Terminal cover.
- [b] Rear access connector plates.

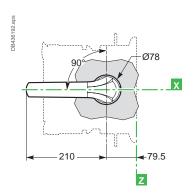
Extended front handle





Extended lateral handle

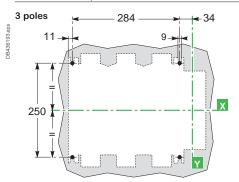


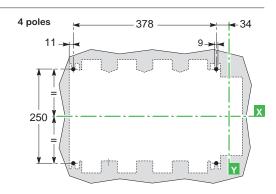


FuPacT GS 630/800 A Mounting and front panel cut-outs



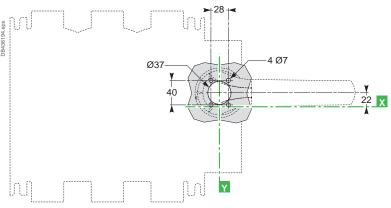




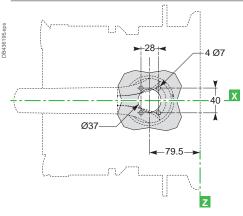


Front panel cut-outs

Extended front handle

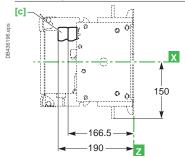


Extended lateral handle



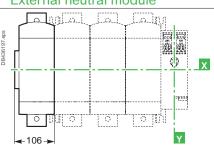
Accessories

Auxiliary contacts





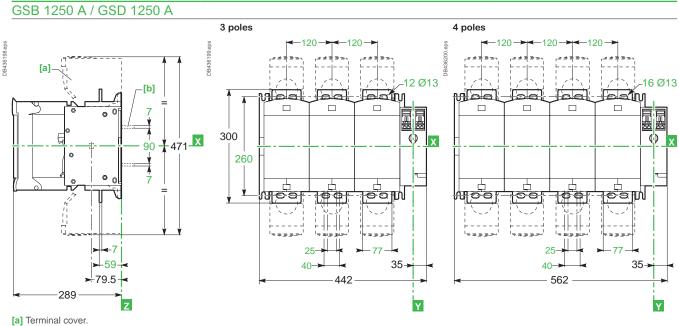
External neutral module



FuPacT GS 1250 A

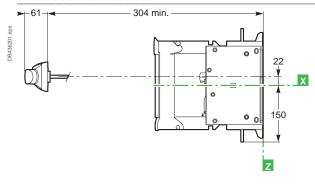
Dimensions

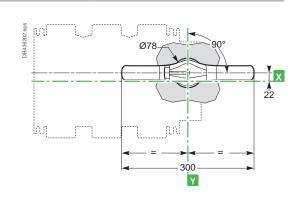
Dimensions



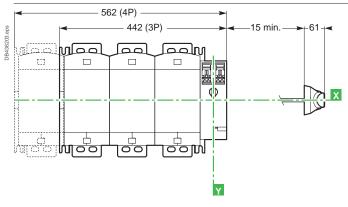
- [b] Rear access connector plates.

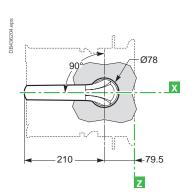
Extended front handle





Extended lateral handle



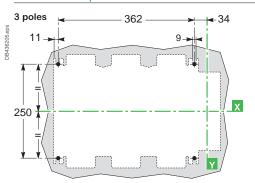


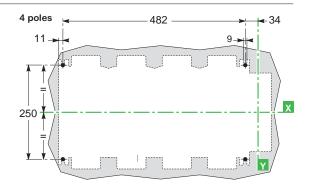
FuPacT GS 1250 A

Mounting and front panel cut-outs



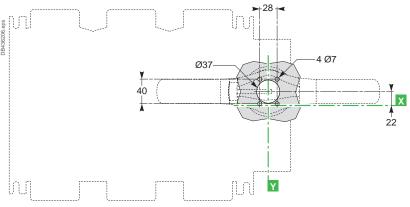




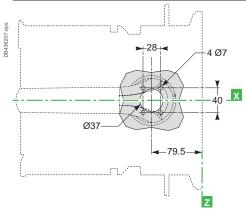


Front panel cut-outs

Extended front handle

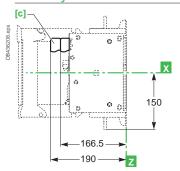


Extended lateral handle



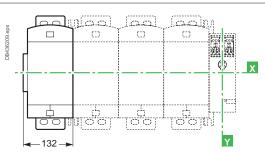
Accessories

Auxiliary contacts



[c] 1 to 8 auxiliary contacts GS1 AM1 • •.

External neutral module

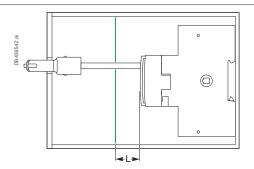


FuPacT GS 32 to 1250 A

Class II installation

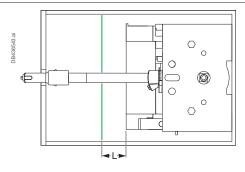
Minimun Air distance to respect between the protective screen and the plastic covers of fuses in a Class II installation

GS 32 A



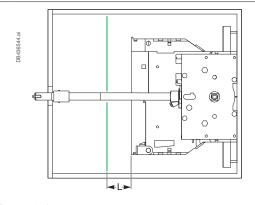
Reference	L min.
LV481503	35
LV481504	
LV481603	
LV481604	

GS 50 A / GS 63 A / GS 100 A / GS 125 A / GS 160 A



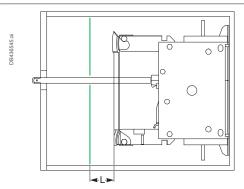
Reference	L min.
LV481513	40
LV481514	
LV481403	
LV481404	
LV481613	
LV481614	
LV481623	35
LV481624	
LV481413	
LV481414	
LV481523	
LV481524	
LV481633	
LV481634	
LV481423	
LV481424	

GS 200 A / GS 250 A / GS 400 A



Reference	L min.
LV481643	32
LV481644	
LV481653	
LV481654	
LV481663	
LV481664	
LV481433	
LV481434	
LV481443	
LV481444	

GS 630 A / GS 800 A / GS 1250 A



Reference	L min.
LV481453	30
LV481454	
LV481463	
LV481464	
LV481673	
LV481674	
LV481683	
LV481684	
LV481693	
LV481694	
LV481473	
LV481474	

ISFT100N	D-2
Devices and accessories	
ISFT100 Devices and accessories	
ISFT160 Devices and accessories	
ISFT250 to ISFT630	
ISFL160 Devices and accessories	
ISFL250 to ISFL1250 Devices and accessories	
GSC32 - GSC50 - GSC125 Devices Accessories	D-10
GSD 63 to 1250	D-12
GSB 32 to 1250	D-14
FuPacT protection components Cartridge fuses type aM	D-16

Other chapters Presentation. 2 FuPacT ISFT A-1 FuPacT ISFL B-1 FuPacT GS C-1

ISFT100N

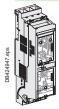
Devices and accessories

ISFT100N 3P fixed front-connected

Basic device for mounting on a backplate

Connection via 2.5 to 50 mm² cable connectors

LV480750



Basic device for mounting on busbars

Hook-on connection to 60 mm busbars

Upstream distribution Downstream distribution LV480751 LV480752



Accessories

DIN rail fixing kit

LV480753



Support profile laterally attachable

Set of 2

LV480754



Terminal shield

Set of 2

LV480756



Auxiliary changeover contact NO + NC

LV480841

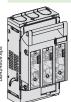
ISFT100 3P fixed front-connected

ISF1100 3P fixed f				
Basic device for mou				
DB424608 eps	Connection via 1.5 to 50 mm ² cable of	connectors		LV480800
Accessories				
Mounting accessorie				
DB4013252 eps	Accessory for mounting on a DIN rai	I		49877
	Escutcheon (not compatible with	For 1 device		49878
	feeding busbars)	For 2 devices		49879
DB401326 eps				
Connection accessor	ries			
	Distribution connector 3 x 16 mm ²		Set of 3	49860
DB401327 eps	Feeding busbar to supply 2 devices			49861
08401328-eps	recurring business to Supply 2 devices			140001
	Feeding busbar to supply 3 devices			49862
DB401328 eps				
BAAAAAAAAAA	Feeding busbar to supply 4 devices			49863
sde II	Incoming connector (25 to 95 mm²) f	or feeding busbars	Set of 3	49865
DB401331.pp				
Electrical auxiliarie	es			
	Auxiliary changeover contact NO + N	NC		LV480841
38511 eps				

Devices and accessories

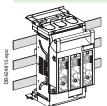
ISFT160 3P fixed front-connected

Basic device for mour



unting on a backplate	
M8 terminals	LV480801
2,5 to 95 mm² cable connectors (box clamp)	LV480802

Basic device for mounting on busbars with turnable hooks



LV480803

Accessories

Mounting accessories



Handle with electronic fuse monitor	LV480810
Support profile laterally attachable	LV480817



LV480819 Terminal shields

Connection accessories



Incoming connector LV480818



Feeding busbars	for 2 devices	LV480811
	for 3 devices	LV480812
	for 4 devices	LV480813



Dist	ribution connector:	$3 \times 16 \text{ mm}^2 \text{ for } 1$	1,5 to 50 mm	cable connectors	LV480814



LV480815 Pressure plate for multiple-use terminal from 6 to 50mm²



Pressure plate with contact prism for multiple-use terminal with Cu/Alu conductors from 6 to 70 mm²

LV480816

Electrical auxiliaries



LV480841 Auxiliary changeover contact NO+NC

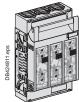


ISFT250 to ISFT630

Devices and accessories

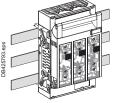
ISFT250 to ISFT630 3P fixed front-connected

Basic device for mounting on a backplate ISFT250 LV480804 ISFT400 LV480806 ISFT630 LV480808



Basic device for mounting on busbars with turnable hooks

ISFT400 LV480807	



Accessories

Mounting accessories



Handle with electronic fuse monitor	ISFT250	LV480821
	ISFT400	LV480825
	ISFT630	LV480828



Support profile laterally attchable

LV480832

Connection accessories



Pressure plate with contact prism for multiple-use terminal with Cu/Al conductors

from 70 to 150 mm ²	ISFT250	LV480822
from 120 to 240 mm ²	ISFT400	LV480826
from 150 to 300 mm ²	ISFT630	LV480829



ISFT250 box clamp from 35 to 150 mm² 35...150 mm² re/rm $50\,to\,150\,mm^2\,se/sm$

ISFT400 and ISFT 630 box clamp LV480830 95...300 mm2 re/rm



120 to 300 mm² se/sm LV480824 Terminal shields ISFT250 ISFT400 LV480827 LV480831 ISFT630

Electrical auxiliaries



Auxiliary changeover contact NO + NC

LV480841

LV480823

ISFL160

Devices and accessories

ISFL160 1-pole switchable fixed front-connected

Basic device for mounting on busbars

Direct connection to 185mm busbars (M12)

LV480900



ISFL160 3-pole switchable fixed front-connected

Racio	dovico	for mo	untina	on h	usbars
Dasic		1())	()	IIISDAIS

Resident	
No.	
100 m	
ESPAN FILL	
De la	
St 124	
Bell.	

nting on busbars		
Direct hook-on connection to 60 mm busbars	Screws M8	LV480850
	Terminals 95 mm ²	LV480851
Direct connection to 100 mm busbars	Screws M8	LV480852
	Terminals 95 mm ²	LV480853

Conversion kit for connection to busbars (for ISFL160 direct connection)



Direct connection to 185 mm busbars Direct connection to 185 mm busbars for 2 ISFL160 devices LV480854

LV480855



Sideframe door cut out - 850 mm	LV480868
Sidewise angle bracket for side frame (x4)	LV480869





Length adaptor	LV480870
Empty plastic box (46 x 46 mm)	LV480878



Bank panel cover	LV480871
Bank panel cover	LV480871



Contact hooks for ISFL 1-pole switchable	Set of 3 LV480905
--	--------------------------

Connection ((accessories	for standard	M8	terminals)
--------------	--------------	--------------	----	------------

Lugs for 95 mm² copper cables

28951 Set of 3



Connectors	for Cu/Al bare cables	1.5 x 95 mm ²	Set of 3	LV480861
	for flexible bars	12 x 6 mm	Set of 3	LV480862



Electrical auxiliaries





ISFL250 to ISFL1250

Devices and accessories

ISFL250 to ISFL630 1-pole switchable

Basic device for mounting on busbars

Direct connection to 185 mm busbars (screw M12)

LV480901 LV480902 ISFL400 ISFL630 LV480903



Hooks for mounting without drilling

LV480859

ISFL250 to ISFL630 3-pole switchable

Basic device for mounting on busbars

Direct connection to 185 mm busbars ISFL250 LV480856 LV480857 ISFL400 ISFL630 LV480858 ISFL1250 LV480875



Hooks for mounting without drilling

LV480859



Fuse monitor (direct connection to 185 mm busbars)

ISFL250	LV480863
ISFL400	LV480864
ISFL630	LV480865
ISFL1250	LV480876

ISFL250 to ISFL1250

Devices and accessories

3	Sideframe door o			LV480868
DB401728 eres	Sidewise angle b	racket for side frame	Set of 4	LV480869
	Empty plastic bo			LV480879 [1]
		,		,
FI.	Blank panel cove	r		LV480872
onnection (accessories				
	Connectors	For Cu/Al bare cable 1 x 35 to 300 mm ²	Set of 3	LV480867 [1]
Db 105281.eps		For Cu/Al bare cable 2 x 50 to 185 mm ² For Cu/Al cable 4 x 240 mm ²	Set of 3 Set of 3	49895 [1] LV480890 [2]
	Screws with plas	tic support	Set of 3	LV480866 ¹³
	Coupling kit ISFL	250-630		LV480891 ^[1]
lectrical auxiliaries	Auxiliary change	over contact NO + NC		LV480841
31	Current transforr			LV480885
		250/5 class 1 5 VA	Set of 1	LV480886
		400/5 class 1 5 VA	Set of 1	LV480887
	Click-lock cable t	600/5 class 1 5 VA	Set of 1 Set of 1	LV480888 LV480889
	(SS. (SSE))		55.5.	1=: :::::::

[1] Except for ISFL1250. [2] Only for ISFL1250.

D-9

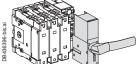
Devices

GSC32 - GSC50 - GSC125

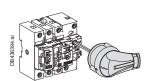
00002 000	00 000 120		
Basic Device : Fr	ront or lateral control		
	Switch/Type of fuse	3P/3F	4P/3F+N
Devises a		198-2410 198-24	E T-1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
	GSC32 / NFC	LV481503	LV481504
100	(10 x 38), 32 A		
	Switch/Type of fuse	3P/3F	4P/4F
DB-585396 ai		18.00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	84 84 84 84 84 84 84 84 84 84 84 84 84 8
	GSC50 / NFC	LV481513	LV481514
JONE .	(14 x 51), 50 A		
	GSC125 / NFC	LV481523	LV481524
	(22 x 58), 125 A		
Direct handle wit	th Test position		
	A Par	32 A	50 and 125 A

Front

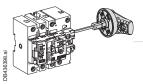




Extended Rotary Handle IP 65



FIGHT Handle		
	32 and 50 A	125 A
Front Black Handle	GS2AH510	GS2AH530
Front Red/Yellow Handle	GS2AH520	GS2AH540
Front Black Handle + test position	GS2AHT510	GS2AHT530
Front Red/Yellow Handle + test position	GS2AHT520	GS2AHT540
Lateral handle		



Lateral handle		
	32 and 50 A	125 A
Lateral Black Handle	GS2AH210	GS2AH230
Lateral Red/Yellow Handle	GS2AH220	GS2AH240

Accessories

, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Shaft			
		32 and 50 A	125 A
99.ai	200 mm shaft	GS2AE82	GS2AE22
DB436399.ai	320 mm shaft	GS2AE8	GS2AE2
and the state of t	400 mm shaft	GS2AE81	GS2AE21
Cuido cono			

Guide cone



32 to 1250 A GS2AEH12

GS1AH103

LV481701 [1]

[1] Available Q4 2020.

GSC32 - GSC50 - GSC125

Accessories

Accessories - GSC32 - GSC50 - GSC125

External neutral module	For GSC50	LV481900
	For GSC125	LV481902
Internal neutral link	For GSC50	LV481911

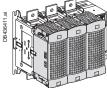
		Compatible with all GSC products)		
	Auxiliary contacts	1 NO contact with 2 accessories	GS1AM110	
DB 436403.ai		1 NC contact with 2 accessories	GS1AM101	
		Set of 5 NO contacts	ZBE101	
DB436402.ai		Set of 5 NC contacts	ZBE102	
DB436404.ai	i x10	Set of 10 accessories for auxiliary contact	LV481110	
	Cable connectors			
			3P (set of 3)	4P (set of 4)
DB436405.ai		For GSC125	GS1AW33	GS1AW34
	Terminal shield			
			3P (set of 3)	4P (set of 4)
DB436406.ai		For GSC125	GS1AP33	GS1AP34

GSD 63 to 1250

Devices

GSD63 - GSD125 - GSD160 - GSD250 - GSD400 - GSD630 - GSD800 - GSD1250

0000	000120	000100	000200	005.00	00000	00000	000	1200	
Basic Dev	vice : Front	or lateral co	ntrol						
		Switch/T	pe of fuse					3P/3F	4P/4F
								100 00 00 00 00 00 00 00 00 00 00 00 00	P
		GSD63/DI 63 A	N 000					LV481403	LV481404
		GSD125/D 125 A	00 NIO					LV481413	LV481414
		GSD160/D 160 A	00 NIN 00					LV481423	LV481424
		GSD250/D 250 A	DIN 1					LV481433	LV481434
		GSD400/E 400 A	OIN 2					LV481443	LV481444
	sl.	GSD630/E	IN 3					LV481453	LV481454
		630 A							
		GSD800/E 800 A	OIN 3					LV481463	LV481464
		GSD1250/ 1250 A	DIN 4					LV481473	LV481474

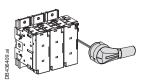


Direct handle with Test position



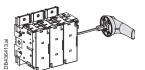
	63 to 160 A	250 to 400 A	630 to 800 A	1250 A
Front	LV481701 [1]	LV481702 [1]	-	-

Extended Rotary Handle IP 65



Fr	Ol	nt	hai	ndl	le

T TOTIC HATTAIO					
	63 A	125 to 400 A	630 to 800 A	1250 A	
Front Black Handle	GS2AH510	GS2AH530	GS2AH550	GS2AH570	
Front Red/Yellow Handle	GS2AH520	GS2AH540	GS2AH560	GS2AH580	
Front Black Handle + test position	GS2AHT510	GS2AHT530	-	-	
Front Red/Yellow Handle + test position	GS2AHT520	GS2AHT540	-	-	
Lateral handle					



La	LEI	ai i	ıaı	iuie

Lateral Red/Yellow Handle	GS2AH220	GS2AH240	GS2AH260
Lateral Black Handle	GS2AH210	GS2AH230	GS2AH250
	63 A	125 to 400 A	630 to 1250 A
Laterarriandio			

Accessories			
Shaft			
		63 to 400 A	630 to 1250 A
	200 mm shaft	GS2AE22	GS2AE52
	320 mm shaft	GS2AE2	GS2AE5
	400 mm shaft	GS2AE21	GS2AE51
Guide cone			
			63 to 1250A
(/ ~0)			GS2AEH12

[1] Available Q4 2020.

Catalog numbers GSD 63 to 1250 Accessories

Accessories - GSD63 - GSD125 - GSD160 - GSD250 - GSD400 - GSD630 - GSD800 - GSD1250

Connection				
	External neutral module	For GSD63	LV481901	
		For GSD100 to GSD160	LV481902	
		For GSD200 to GSD250	LV481904	
10 1 1		For GSD400	LV481905	
		For GSD630 to GSD800	LV481906	
		For GSD1250	LV481907	
	Internal neutral link	For GSD63 to GSD160	LV481913	
8/3		For GSD250	LV481915	
		For GSD400	LV481916	
		For GSD630 to GSD800	LV481917	
T		For GSD1250	LV481918	
Electrical auxilian Auxiliary contacts	ries (Compatible with all GSD products)			
	1 NO contact with 2 accessories		GS1AM110	
	1 NC contact with 2 accessories		GS1AM101	
	0.1.75.00		705404	
	Set of 5 NO contacts		ZBE101	
	Set of 5 NC contacts		ZBE102	
863 40	Set of 10 accessories for auxiliary contact		LV481110	
ଢ଼ି x10			·	
Cable connectors			land district	l
	5 0004004 000400		3P (set of 3)	4P (set of 4)
L K(@)	For GSD100 to GSD160		GS1AW33	GS1AW34
	For GSD200 to GSD250		GS1AW43	GS1AW44
	For GSD400		LV481203	LV481204
Terminal shield [1]				
			3P (set of 3)	4P (set of 4)
1 4 4	For GSD125 to GSD160		GS1AP33	GS1AP34
PMA	E 0000000 000 100		0011010	

^[1] The use of terminal shields is mandatory at 690 V AC.

For GSD250 to GSD400

For GSD630 to GSD 800

For GSD1250

Note: FuPacT GS and its accessories are not compatible with the FuPacT INF former range.

GS1AP43

GS2AP73

GS2AP83

GS1AP44 GS2AP64

GS2AP84

GSB 32 to 1250

Devices

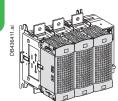
GSB32 - GSB63 - GSB100 - GSB160 - GSB200 - GSB250 - GSB400 - GSB630 - GSB800 - GSB1250

	Basic Device
DB436416.ai	

lateral control		
Switch/Type of fuse	3P/3F	4P/3F+N
	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	E
GSB32 - BS A1 32A	LV481603	LV481604



Switch/Type of fuse	3P/3F	4P/4F
	is 614.98.44	PB84964 10 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
GSB63 - BS A2/A3 63A	LV481613	LV481614
GSB100 - BS A4 100A	LV481623	LV481624
GSB160 - BS A4 160A	LV481633	LV481634
GSB200 - BS B1/B2 200A	LV481643	LV481644
GSB250 - BS B1/B2/B3 250A	LV481653	LV481654
GSB400 - BS B1/B2/B3/B4 400A	LV481663	LV481664
	I	
GSB630 - BS C2 630A	LV481673	LV481674
GSB800 - BS C3 800A	LV481683	LV481684
GSB1250 - BS D1 1250A	LV481693	LV481694

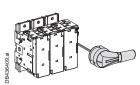


Direct handle with Test position



Front GS1AH103 LV481701 [1] LV481702 [1]		32 A	63 to 160 A	200 to 400 A
	Front	GS1AH103	LV481701 [1]	LV481702 [1]

Extended Rotary Handle IP 65



32 to 63 A	125 to 400 A	630 to 800 A	1250 A
GS2AH510	GS2AH530	GS2AH550	GS2AH570
GS2AH520	GS2AH540	GS2AH560	GS2AH580
GS2AHT510	GS2AHT530	-	-
GS2AHT520	GS2AHT540	-	-
	GS2AH510 GS2AH520 GS2AHT510	GS2AH510 GS2AH530 GS2AH520 GS2AH540 GS2AHT510 GS2AHT530	GS2AH530 GS2AH550 GS2AH520 GS2AH540 GS2AH560 GS2AHT510 GS2AHT530 -



Lateral handle				
	63 A	125 to 400 A	630 to 1250 A	
Lateral Black Handle	GS2AH210	GS2AH230	GS2AH250	
Lateral Red/Yellow Handle	GS2AH220	GS2AH240	GS2AH260	
	_	•	•	

[1] Available Q4 2020.

Catalog numbers GSB 32 to 1250

Accessories

Accessories

	Shaft				
DB436399.ai			32 A	63 to 400 A	630 to 1250 A
		200 mm shaft	GS2AE82	GS2AE22	GS2AE52
		320 mm shaft	GS2AE8	GS2AE2	GS2AE5
		400 mm shaft	GS2AE81	GS2AE21	GS2AE51
	Guide cone				
00.ai					63 to 1250A
	(5%)				GS2AEH12

Accessories - GSB32 - GSB63 - GSB100 - GSB160 - GSB200 - GSB250 - GSB400 - GSB630 - GSB800 - GSB1250

Connection			
	External neutral module	For GSB63	LV481901
		For GSB100	LV481902
		For GSB160	LV481903
OPPOSITOR OF THE PROPERTY OF T		For GSB200 - GSB250	LV481904
		For GSB400	LV481905
		For GSB630 - GSB800	LV481906
		For GSB1250	LV481907

Electrical auxilia	aries (Compatible with all GSB products)							
Auxiliary contacts								
	1 NO contact with 2 accessories	GS1AM110						
	1 NC contact with 2 accessories	GS1AM101						
DB436403.ai								
	Set of 5 NO contacts	ZBE101						
in S	Set of 5 NC contacts	ZBE102						
DB436402.ai								
ïe	Set of 10 accessories for auxiliary contact	LV481110						
0B436404 ai								
Cable connectors								
. 25. ai		3P (set of 3) 4P (set of 4)						

	Cable connectors			
<u>s</u> k			3P (set of 3)	4P (set of 4)
JB43640 5		For GSB100 to GSB160	GS1AW33	GS1AW34
DB4		For GSB200 to GSB250	GS1AW43	GS1AW44
		For GSB400	LV481203	LV481204
	Terminal shield [1]			
.ai			3P (set of 3)	4P (set of 4)
DB436406.a		For GSB125 to GSB160	GS1AP33	GS1AP34
A80		For GSB200 to GSB400	GS1AP43	GS1AP44
		For GSB630 to GSB 800	GS2AP73	GS2AP64
	4 -0	For GSB1250	GS2AP83	GS2AP84
	[41 The use of terminal shields is	a mandatory at 600 V AC		

[1] The use of terminal shields is mandatory at 690 V AC.

FuPacT protection components

Cartridge fuses type aM
For protection of equipment with current peaks







Fuse type	Maximum	Rating	Set of	Fuses without s	triker
	rated voltage			Unit reference	Weight
	V	А			kg
Cylindrical	\sim 500	20	10	DF2CA20	0.010
10 x 38	\sim 400	25	10	DF2CA25	0.010
		32	10	DF2CA32	0.010
Cylindrical	\sim 690	20	10	DF2EA20	0.020
14 x 51		25	10	DF2EA25	0.020
	\sim 500	32	10	DF2EA32	0.020
		40	10	DF2EA40	0.020
		50	10	DF2EA50	0.020
Cylindrical	\sim 690	40	10	DF2FA40	0.045
22 x 58		50	10	DF2FA50	0.045
		63	10	DF2FA63	0.045
		80	10	DF2FA80	0.045
	\sim 500	100	10	DF2FA100	0.045
		125	10	DF2FA125	0.045



Fuse type	Maximum	Rating	Set of	Fuses without s	triker
	rated voltage			Unit reference	Weight
	V	А			kg
Blade NH 1	\sim 690	200	3	DF2HA1201	0.400
	∼500	315	3	DF2HA1311	0.400
Blade	\sim 690	250	3	DF2JA1251	0.560
NH 2		315	3	DF2JA1311	0.560
		400	3	DF2JA1401	0.560

^[1] Set of 3.

D-16

FuPacT protection components

Cartridge fuses type gG
For protection of circuits without significant current peaks

Fuse	Maximum	Rating Set of		Fuses without striker	
type	rated voltage	Э		Unit reference	Weight
	V	А			kg
Cylindrical	\sim 500	20	10	DF2CN20	0.010
10 x 38	\sim 400	25	10	DF2CN25	0.010
		32	10	DF2CN32	0.010
Cylindrical	\sim 690	25	10	DF2EN25	0.020
14 x 51	∼ 500	32	10	DF2EN32	0.020
		40	10	DF2EN40	0.020
		50	10	DF2EN50	0.020
Cylindrical	∼690	20	10	DF2FN20	0.045
22 x 58		25	10	DF2FN25	0.045
		32	10	DF2FN32	0.045
		40	10	DF2FN40	0.045
		50	10	DF2FN50	0.045
		63	10	DF2FN63	0.045
		80	10	DF2FN80	0.045
	∼ 500	100	10	DF2FN100	0.045

Fuse	Maximum	Rating	Set of	Fuses without s	triker
type	rated voltag	le		Unit reference	Weight
	V	Α			kg
Cylindrical	\sim 500	20	10	DF2CN20	0.010
10 x 38	~ 400	25	10	DF2CN25	0.010
		32	10	DF2CN32	0.010
Cylindrical	∼ 690	25	10	DF2EN25	0.020
14 x 51	\sim 500	32	10	DF2EN32	0.020
		40	10	DF2EN40	0.020
		50	10	DF2EN50	0.020
Cylindrical	\sim 690	20	10	DF2FN20	0.045
22 x 58		25	10	DF2FN25	0.045
		32	10	DF2FN32	0.045
		40	10	DF2FN40	0.045
		50	10	DF2FN50	0.045
		63	10	DF2FN63	0.045
		80	10	DF2FN80	0.045
	\sim 500	100	10	DF2FN100	0.045

Fuse type	Maximum	Rating	Set of	Fuses without s	triker
	rated voltage		Unit reference	Weight	
	V	А			kg
Blade NH 000	> 500	100	9	DF2FGN100	0.160
Blade	\sim 690	125	3	DF2FGN125	0.160
NH 00	∼ 500	160	3	DF2FGN160	0.160
Blade	∼ 690	160	1	DF2HN1161	0.400
NH 1		200	1	DF2HN1201	0.400
	\sim 500	250	3	DF2HN1251	0.400
141.0					

[1] Set of 3.

DF2 FN••

DF2 CN••



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02/2023

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Document reference: LVPED216031EN