CompactM NSXm

Catalogue 2017

9

Molded-case circuit breakers and switch-disconnectors up to 160 A and 690 V



Life Is On Schneider



Green Premium™

Endorsing eco-friendly products in the industry



Green Premium Product

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

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



Discover what we mean by green

Check your products!

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

RoHS

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

REACh

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

PEP: Product Environmental Profile

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

EoLI: End of Life Instructions

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

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

Efficiency that clicks.

Compact NSXm molded case circuit breakers

Life Is On Schneider

Schneider Electric introduces a new family member of the Compact[™] NSX range of circuit breakers, the Compact NSXm.

The Compact NSX and NSXm ranges benefit from 60 years of Schneider Electric background and leadership in industrial circuit breakers based on the roto-active breaking technology.

As well as offering proven performance, flexibility, and reliability, the Compact NSXm features new innovations such as EverLink[™] patented connections.

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Your efficiency is our first concern.





I design more reliable solutions with NSXm.

- Ensure reliable connection over time using creep-compensating technology — EverLink™
- Enhanced continuity of service with outstanding discrimination
- Optimize panel cost with cascading



Equipment with Compact NSXm is tested and complies with IEC 61439 1&2.



I build panels more productively using NSXm.

 Save up to 40% of time spent mounting and cabling with built-in DIN rail, EverLink™ connectors, and spring-type auxiliaries





I build more reliable and optimized machines with NSXm.

- Best combination of size and performance
- Ensure reliable connection over time using creep-compensating technology - EverLink™
- Same footprint, accessories, and auxiliaries for both IEC and multistandard (UL/IEC) range





Compact NSXm circuit breakers: Optimized for your needs

The Compact NSXm range of circuit breakers and switch disconnectors is a newcomer in the Compact NSX family. It is one of the smallest on the market with innovative features. Built on the design of roto-active breaking technology, we have made it as robust as Compact NSX products.

Compact NSXm main features and innovations

- Rated Current ,In (A) 16, 25, 32, 40, 50, 63, 80, 100, 125, 160
- Breaking capacity (kA) at 415V 16, 25, 36, 50, 70
- Thermal magnetic trip unit integrated
- Built-in DIN rail and plate mount
- Auxiliaries externally visible
- EverLink[™] connectors



EverLink[™] patented technology

The Compact NSXm features a new cable connection method with patented creep-compensating technology built directly into the terminal — EverLink™:

- With EverLink[™] connectors, save space and time during panel assembly.
- · Bare cable connections are as safe as compression lug ones.









Space for spring effect Untightened



In contact Tightened

Creep-compensating

effect



Spring maintains contact pressure: Creep compensation

ES

More than 35 patents have been registered for this new Compact NSXm offer.



Efficiency that clicks.

Compact NSXm accessories are available to answer all your needs from power connection to operating mechanism, including electrical auxiliaries. All of them are easily field installable.



Mounting: DIN rail and plate

Embedded DIN rail and plate mounting capabilities for every circuit breaker; no extra parts required.



Auxiliaries: Field-installable offer

All electrical auxiliaries (contacts OF/SD and voltage release MN/MX) can be easily installed in the product by simply opening the front cover and snapping them into cavities.

Their presence in the breaker is externally visible through flags or a window.



Power connection: Flexible

Compact NSXm circuit breakers come with EverLink[™] or compression lug or busbar connector. As an option, you can get EverLink[™] connectors with control wire terminal.

New torque-limiting breakaway bits can be used to tighten power connections in the field.





Insulation

New transparent long terminal shield can allow you to achieve IP40.



A wide range of operating mechanism

A wide range of rotary handles enables the Compact NSXm to meet all standards and applications. They are available as direct, extended, and side mount. We also feature an open door shaft operator (NFPA79 code), which allows you to operate the breaker safely when the panel door is open.



General contents Compact™ NSXm

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Installation recommendations

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A

Introduction

General characteristics of the Compact NSXm range

A



Standardised characteristics indicated on the rating plate:

- A Type of device: frame size and breaking capacity class
- B Circuit breaker/switch-disconnector symbol.
- C Commercial reference.
- D Ui: rated insulation voltage.
- E Uimp: rated impulse withstand voltage.
- **F** Ue: operational voltage.
- G Reference standard.
- H Circuit breaker rating.

Dever connections tightening torques.

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



Compliance with standards

Compact NSXm circuit breakers and auxiliaries comply with the following:

- international recommendations:
- □ IEC 60947-1: general rules
- □ IEC 60947-2: circuit breakers
- □ IEC 60947-3: switch-disconnectors
- □ IEC 60947-5-1 and following: control circuit devices and switching elements; automatic control components

European (EN 60947-1, EN 60947-2, EN 60947-3 and EN 60947-5-1) and corresponding national standards:

- China CCC
- □ EAC (Customs Union)

the specifications of the marine classification companies (Veritas, Lloyd's Register of Shipping, Det Norske Veritas, etc.), standard NF C 79-130 and recommendations issued by the CNOMO organisation for the protection of machine tools.

Pollution degree

Compact NSXm circuit breakers are certified for operation in pollution-degree 3 environments as defined by IEC standards 60947-1 and 60664-1 (industrial environments).

Climatic withstand

Compact NSXm circuit breakers have successfully passed the tests defined by the following standards for extreme atmospheric conditions. Dry cold and dry heat:

- IEC 60068-2-1: dry cold at -55 °C
- IEC 60068-2-2: dry heat at +85 °C.
- Damp heat (tropicalization)
- IEC 60068-2-30: damp heat (temperature + 55 °C and relative humidity of 95 %).
- IEC 60068-2-52: severity 2 Cycling salt mist.

Environment

Compact NSXm respects the European environment directive EC/2002/95 concerning the restriction of hazardous substances (RoHS) and is Green Premium. Product environment profiles (PEP) have been prepared, describing the environmental impact of every product throughout its life cycle, from production to the end of its service life.

All Compact NSXm production sites have set up an environmental management system certified ISO 14001.

Each factory monitors the impact of its production processes. Every effort is made to prevent pollution and to reduce consumption of natural resources.

Ambient temperature

Compact NSXm circuit breakers may be used between -25 °C and +70 °C. For temperatures higher than 40 °C, devices must be derated (pages B-4 and B-5).

Circuit breakers should be put into service under normal ambient, operating-

temperature conditions. Exceptionally, the circuit breaker may be put into service when the ambient temperature is between -35 °C and -25 °C.

■ The permissible storage-temperature range for Compact NSXm circuit breakers in the original packing is -50 °C and +85 °C.

General characteristics of the Compact NSXm range

Electromagnetic compatibility

Compact NSXm devices are protected against:

- overvoltages caused by circuit switching (e.g. lighting circuits)
- overvoltages caused by atmospheric disturbances
- devices emitting radio waves such as mobile telephones, radios, walkie-talkies, radar, etc.

electrostatic discharges produced by users.

- Immunity levels for Compact NSXm comply with the standards below.
- IEC/EN 60947-2: Low-voltage switchgear and controlgear, part 2: Circuit breakers:
- □ Annex F: Immunity tests for circuit breakers with electronic protection
- □ Annex B: Immunity tests for residual current protection
- IEC/EN 61000-4-2: Electrostatic-discharge immunity tests

 IEC/EN 61000-4-3: Radiated, radio-frequency, electromagnetic-field immunity tests

- IEC/EN 61000-4-4: Electrical fast transient/burst immunity tests
- IEC/EN 61000-4-5: Surge immunity tests
- IEC/EN 61000-4-6: Immunity tests for conducted disturbances induced by radio-frequency fields
- IEC/EN 61000-4-8: Power frequency magnetic field immunity test
- IEC/EN 61000-4-11: Voltage dips, short interruptions and voltage variations immunity tests

 CISPR 11: Limits and methods of measurement of electromagnetic disturbance characteristics of industrial, scientific and medical (ISM) radio-frequency equipment.

Suitable for isolation with positive contact indication

All Compact NSXm devices are suitable for isolation as defined in IEC standard 60947-2:

- The isolation position corresponds to the O (OFF) position.
- The operating handle cannot indicate the OFF position unless the contacts are effectively open.
- Padlocks may not be installed unless the contacts are open.

Installation of a rotary handle does not alter the reliability of the position-indication system.

The isolation function is certified by tests guaranteeing:

- the mechanical reliability of the position-indication system
- the absence of leakage currents

overvoltage withstand capacity between upstream and downstream connections. The tripped position does not insure isolation with positive contact indication. Only the OFF position guarantees isolation.

Installation in class II switchboards

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

Degree of protection

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

Bare circuit breaker with terminal shields

- With toggle: IP40, IK07.
- With direct rotary handle: IP40 IK07.

Circuit breaker installed in a switchboard

- With toggle: IP40, IK07.
- With direct rotary handle: IP40, IK07.
- With extended rotary handle: IP54 or IP65 IK08
- With side rotary handle: IP54 or IP65 IK08.

For more detail about IP, see page B-3.

Functions and characteristics W Protection of distribution systems Characteristics and performance of Compact NSXm circuit breakers from 16 to 160 A up to 690 V



Compact NSXm

Common	characteristics			
Rated voltages	Insulation voltage (V)	Ui	800	
	Impulse withstand voltage (kV)	Uimp	8	
	Operational voltage (V)	Ue AC 50/60 Hz	690	
Suitability for iso	plation	IEC/EN 60947-2	yes	
Utilisation categ	Jory		А	
Pollution degree IEC 60664-1				

Circuit breakers

Breaking capacity levels

Breaking capacity (kA rms)				
	lcu	AC 50/60 Hz	220240 \	/
			380415 \	/
			440 V	
			500 V	
			525 V	
			660690 V	/
Service breaking capacity (k/	A rms)			
	lcs	AC 50/60 Hz	220240 \	/
			380415 \	/
			440 V	
			500 V	
			525 V	
			660690 V	/
Durability (C-O cycles)		Mechanical		
		Electrical	440 V	In/2
				In
			690 V	In/2
				In
Protection and measurements				
Overload / short-circuit protection	Thermal m	agnetic		
Options	Device star	tus		
Installation / connections				
Dimensions and weights				
Dimensions (mm)			3P	
WxHxD			4P	
Weight (kg)			3P	
			4P	
Connections				
Pitch (mm)			Standard	
			With sprea	ders
EverLink™ lug Cu or Al [2] cables	Cross-sect	ion (mm²)	Rigid	
			Flexible	
Crimp lugs Cu or Al	Cross-sect	tion (mm²)	Rigid	
			Flexible	
[2] Al up to 100 A.				

А

Protection of distribution systems Characteristics and performance of Compact NSXm circuit breakers from 16 to 160 A up to 690 V

Common characteristics							
Control	Manual	With toggle	\bigcirc				
		With direct or extended rotary handle	\bigcirc				
		With side rotary handle	\bigcirc				
Versions	Fixed						

NSXm up to 63 A						NSXm from 80 to 160 A					
E	В	F	N	Н	E	В	F	N	Н		
25	50	85	90	100	25	50	85	90	100		
16	25	36	50	70	16	25	36	50	70		
10	20	35	50	65	10	20	35	50	65		
8	10	15	25	30	-	-	-	-	-		
-	-	10	15	22	-	-	-	-	-		
-	-	-	10	10	-	-	-	-	-		
25	50	85	90	100	25	50	85	90	100		
16	25	36	50	70	16	25	36	50	70		
10	20	30	50	65	10	20	30	50	65		
8	10	10	25	30	-	-	-	-	-		
-	-	10	15	22	-	-	-	-	-		
-	-	-	2.5	2.5	-	-	-	-	-		
20000											
20000											
10000											
10000											
5000											
۲											
81 x 13	7 x 80										
108 x 13	37 x 80										
1.06											
1.42											
07											
21											
30											

95
70
120
95

Functions and characteristicswww.schneidProtection of distribution systemsOverview of trip units for Compact NSXm circuit breakers

Compact NSXm is available with 3 types of protection

Magnetic NA for switch-disconnectors with self-protection embeded

Thermal-magnetic TM-D which protects cables on distribution systems against over currents and short-circuits

Coordinated tripping systems

Compact NSXm detects faults even faster and its tripping time is reduced. It protects the installation better and limits contact wear.



[1] This tripping system is completely independent of the trip unit.

Because it directly actuates the mechanism, it precedes the trip unit by a few milliseconds.

Unmatched discrimination

Discrimination

Compact NSXm provides maximum continuity of service and savings through an unmatched level of discrimination:

 given the high accuracy of measurements, overload discrimination is ensured even between very close ratings

• for very high faults, the energy of the arc dissipated by the short-circuit in the downstream breaker causes reflex tripping. The current seen by the upstream device is significantly limited. The energy is not sufficient to cause tripping, so discrimination is maintained whatever the short-circuit current.

For total discrimination up to 70 kA between Compact NSX and Compact NSXm over the entire range of possible faults, from the long-time pick-up Ir to the ultimate short-circuit current Icu, a ratio of 1.6 must be maintained between the ratings of the upstream and downstream devices (for example NSXm160 with NSX250). This ratio is required to ensure selective reflex tripping for high short-circuits. For discrimination between different ranges, see rules in "Complementary technical information" document.



Compact NSX250 for total discrimination with NSXm160 up to 70 kA.

Compact NSXm100 (N and H) for total discrimination with Acti 9 devices rated \leq 40 A.

Better coordination between protection functions reduces the difference in ratings required for total discrimination.

Protection of distribution systems Overview of trip units for Compact NSXm circuit breakers

Compact NSXm offers a range of trip units, whether they are thermal-magnetic or electronic with earth leakage protection.

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Compact NSXm

Type of protection and applications TM-D thermal-magnetic



Distribution

Circuit breakers and trip units



TM-D Distribution





Adjustment and reading Pick-up set in amps using dials Non-adjustable time delay

Functions and characteristics **Protection of distribution systems** TM thermal-magnetic



TM-D thermal-magnetic trip units



Circuit breakers equipped with thermal-magnetic trip units are used mainly in industrial and commercial electrical distribution applications for protection of cables on distribution systems supplied by transformers

Protection

Thermal protection (Ir)

Thermal overload protection based on a bimetal strip providing an inverse time curve l²t, corresponding to a temperature rise limit. Above this limit, the deformation of the strip trips the circuit breaker operating mechanism.

This protection operates according to:

Ir that can be adjusted in amps from 0.7 to 1 times the rating of the circuit breaker (16 A to 160 A), corresponding to settings from 11 to 160 A for the range of products
 a non-adjustable time delay, defined to ensure protection of the cables.

Magnetic protection (Im)

Short-circuit protection with a fixed pick-up Im that initiates instantaneous tripping if exceeded with a non adjustable time delay to ensure discrimination and cascading.

Protection versions

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

 $\hfill 4P$ 4D: 4-pole frame (4P) with detection on all 4 poles (same threshold for phases and neutral).

Note: All the circuit breakers have a transparent lead-sealable cover that protects access to the adjustment dials.

Functions and characteristics **Protection of distribution systems** TM thermal-magnetic

		TAA											
i nermai-magn	etic trip units	I IVI	160	to 1	60D								
Ratings (A)	In at 40 °C [1]	16	25	32	40	50	63	80	100	125	160		
Circuit breaker	Compact NSXm	۲	۲	\bigcirc	\bigcirc	\bigcirc	۲	\bigcirc	\bigcirc	\bigcirc	\bigcirc	t , i	
Thermal protection												Ir	
Pick-up (A) tripping between 1.05 and 1.20 Ir	Ir = ln x	adjus	table in	amps	from 0.	7 to 1 x	In						
Time delay (s)	tr	non-a	idjustal	ole									Im
Magnetic protection													
Pick-up (A)	Im	fixed											
accuracy ±20 %	Compact NSXm	500	500	500	500	600	800	1000	1250	1250	1250		
Time delay	tm	fixed											
Neutral protection													
Unprotected neutral	4P 3D	no de	tection										
Fully protected neutral	4P 4D	1 x lr											

[1] If the circuit breakers are used in high-temperature environments, the setting must take into account the thermal limitations of the circuit breaker. See the temperature derating table page B-4.

Functions and characteristics **Switch-disconnectors** Characteristics and performance of Compact NSXm switch-disconnectors from 50 to 160 A up to 690 V

Installation standards require upstream protection.

However Compact NSXm 50 to 160 NA switch-disconnectors are self-protected by their high-set magnetic release.



NSXm with EverLink™ connectors and control wire terminal upstream

Common characteristics

Rated voltages Insulation voltage (V)				800
	Impulse withstand voltage (kV)	Uimp		8
	Operational voltage (V)	Ue	AC 50/60 Hz	690
Suitability for is	olation		IEC/EN 60947-3	yes
Utilisation categ	gory		AC 22 A/AC 23 A	
Pollution degre	e		IEC 60664-1	3

Switch-disconnectors

Electrical characteristics as per IEC 60947-3 and EN 60947-3

Conventional thermal current (A) Ith 40 °C

Number of poles							
Operational current (A)	le	AC 50/60 Hz					
depending on the utilisation			220/240 V				
category			380/415 V				
			440/480 V				
			500/525 V				
			660/690 V				
Short-circuit making capacity	lcm	min. (switch-	disconnector alone)				
(kA peak)		max. (protection by upstream circuit breaker)					
Rated short-time withstand	lcw	for	1 s				
current (A rms)			3 s				
			20 s				
Durability (C-O cycles)	mechanical						
	electrical	AC					
			440 V	le/2			
				le			
			690 V	le/2			
				le			
D 100 0 0 00 00 00							

Positive contact indication

Pollution degree

Additional indication and control auxiliaries Indication contacts

maloation contacto						
Voltage releases	MX shunt trip release					
	MN undervoltage release	9				
Installation / connections						
Dimensions and weights						
Dimensions (mm)		3P				
WxHxD		4P				
Weight (kg)		3P				
		4P				
Connections						
Pitch (mm)		Standard				
		With spreaders				
EverLink™ lug Cu or Al ^[1] cables	Cross-section (mm ²)	Rigid				
		Flexible				
Crimp lugs Cu or Al	Cross-section (mm ²)	Rigid				
		Flexible				
Source-changeover system	ns					
Manual source-changeover systemeter	ems					

[1] Al up to 100 A.

Switch-disconnectors

Characteristics and performance of Compact NSXm switch-disconnectors from 50 to 160 A up to 690 V

Common characteristics							
Control	Manual	With toggle	\odot				
		With direct or extended rotary handle	\odot				
		With side rotary handle	\odot				
Versions	Fixed						

NSXm50NA	NSXm100NA	NSXm160NA
50	100	160
3.4	3.4	3.4
AC22A/AC23A	AC22A/AC23A	AC22A/AC23A
50	100	160 / 100
50	100	160 / 100
50	100	160 / 100
50	100	160 / 100
50	100	160 / 100
1.28	2.13	2.13
330	330	330
900	1500	1500
900	1500	1500
200	335	335
20000	20000	20000
AC22A/AC23A	AC22A/AC23A	AC22A/AC23A
20000/20000	20000 / 20000	20000/20000
10000 / 10000	10000 / 10000	10000 / 10000
10000/6000	10000 / 6000	10000/6000
5000/3000	5000/3000	5000/3000
۲	۲	۲
3	3	3
۲	۲	۲
۲	۲	۲
۲	۲	۲

81 x 137 x 80	
108 x 137 x 80	
1.06	
1.42	
27	
35	
95	

95	
70	
120	
95	
۲	

Functions and characteristics Switch-disconnectors Overview of applications

A

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A switch-disconnector is a control device that can be used to open and close a circuit under normal operating conditions. It is suitable for isolation as indicated on the front by the symbol

Position of switch-disconnectors

Compact switch-disconnectors are used primarily for the following applications: busbar coupling and isolation

- solation of industrial distribution boards and industrial control panels
- isolation of subdistribution boards for modular devices
- isolation of local enclosures
- isolation of final distribution enclosures for commercial applications
- industrial control panel switch-disconnectors.



Functions and characteristics Switch-disconnector functions Overview of applications

Suitability for isolation with positive contact indication

Compact NSXm switch-disconnectors are suitable for isolation as defined by standard IEC 60947-3. The corresponding conformity tests guarantee: the mechanical reliability of the position indication, i.e. the O (OFF) position

- indicated by the control device always reflects the open position of the contacts: the required distance between contacts is provided
- □ padlocks may not be installed unless the contacts are open
- the absence of leakage currents

overvoltage withstand capacity between upstream and downstream connections. Installation of a rotary handle does not alter the reliability of the position-indication system.

Emergency-off function

A Compact NSXm NA is combined with an MN release connected to an emergencyoff button. In an emergency, an operator at a remote location can interrupt the circuit at rated load to isolate the entire switchboard and the downstream loads.

Switch-disconnector protection

The switch-disconnector can make and break its rated current. For an overload or a short-circuit, it must be protected by an upstream device, in compliance with installation standards.

The circuit breaker/switch-disconnector coordination tables determine the required upstream circuit breaker. However, due to their high-set magnetic release, Compact NSXm 50 to160 A switch-disconnectors are self-protected.

Switch-disconnector utilisation category

Depending on the rated operational current and the mechanical durability (A for frequent operation or B for infrequent operation), standard IEC 60947-3 defines the utilisation categories as shown in the table below. Compact NSXm NA switch-disconnectors comply with utilisation categories AC-21A or AC-22A up to 160 A and AC-23A up to 100 A.

Utilisation categories					
Infrequent operation	Frequent operation	Characteristics			
AC-21B	AC-21A	Switching of resistive loads including moderate overloads (cos = 0.95)			
AC-22B	AC-22A	Switching of mixed resistive and inductive loads, including moderate overloads (cos = 0.65)			
AC-23B	AC-23A	Switching of motor loads or other highly inductive loads (cos = 0.45 or 0.35)			

Compact NSXm NA switch-disconnectors use the same accessories and offer the same connection possibilities as the circuit breaker versions.



Compact NSXm switch-disconnector.

Functions and characteristics Installation

A



Mounting

Compact NSXm may be mounted vertically, horizontally or flat on their back or on their side without any derating of characteristics.

These devices can be mounted on a DIN rail using the integrated DIN rail mounting feature.

For backplate mounting, the devices are supplied with two mounting screws (M4), washers and nuts. These mounting screws can be inserted through mounting holes molded into the device case and threaded into the mounting enclosure, rails or plate.







Mounting on a backplate.

Mounting on rails.

Mounting on DIN rail.

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Installation positions.

DB421204.eps

Functions and characteristics Accessories and auxiliaries Overview





Functions and characteristics Accessories and auxiliaries Power connection of fixed devices

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Fixed circuit breakers are designed for standard front connection using bare cables

Bars or cables with lugs connectors are also available.



EverLink[™]lug connector (standard).



EverLink[™]lug connector with control wire terminal (spare part).





Power connection

Circuit breakers are delivered with EverLink[™] lug connectors for bare cables. They may be delivered with connectors for bars or cables with compression lugs. Whatever, the connectors can be removed for the installation of one of the 4 kinds of connectors available (EverLink[™] lug with control wire terminal, EverLink[™] lug, compression lug / busbar, aluminium mechanical lug).

For connection of large cables, a number of solutions with spreaders may be used for both cables with lugs or bars.

Bare cables

Standard terminal: EverLink™ lug connector

This type of connection uses the EverLink[™] system with creep ^[1] compensation (Schneider Electric patent).

This technique makes it possible to achieve accurate and durable tightening torque, in order to avoide cable creep.

When ordered as spare part, EverLink™ connectors have control wire terminal in order to make some measurment connection (limited to 10 A).

EverLink[™] lugs for use with AI or Cu wire

Wire range						
Solid/stranded	Torque					
Power connection 15-160 A (Cu), 15-100 A (Al)						
2.5 - 10 mm ²	2.5 - 10 mm ²	5 N.m ±0.5				
16 - 95 mm²	16 - 70 mm ²	9 N.m ±0.9				
Control wire terminal up to 10 A (Cu)						
1.5 - 6 mm²	0.5 - 6 mm ²	1 N.m ±0.1				

Aluminium mechanical connectors up to 125 A

The standard EverLink[™] lugs can be removed for the installation of mechanical lugs. Lugs suitable for copper and aluminum conductors are made of tin-plated aluminum. The mechanical lugs are fastened to the terminals with lug mounting screws, inserted from the bottom of the circuit breaker. The lug cover is held in place with built-in snap features. They are sold as field installable kits.

Aluminium mechanical connectors, 15-125 A (Cu/Al)

Wire range	
Solid/stranded	Torque
2.5 - 6 mm ²	4 N.m ±0.4
10 - 70 mm ²	5.6 N.m ±0.6

[1] Creep: normal crushing phenomenon of conductors, that is accentuated over time. [*] Available Q4 2017.



Functions and characteristics Accessories and auxiliaries Power connection of fixed devices

Bars or cables with lugs

Compression lug / busbar connectors

The Compact NSXm circuit breakers may be equipped with captive nuts and M6 screws connectors. These are readily field-installable, simply by removing the EverLink™ lug and replacing with the appropriate terminal nut.

- They are also available factory installed. These terminals may be used for:
- direct connection of insulated bars or cables with compression (crimp) lugs.
- terminal extensions offering a wide range of connection possibilities.

Compression lug / busbar connectors, 15-160 A

	•
Power connection	Torque
≤ 10 mm ²	5.0 N.m ±0.5
≥ 16 mm ²	9 N.m ±0.9

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

Crimp lugs large size cables

There are two models, for aluminium and for copper cables. It is necessary to use narrow lugs, compatible with device connections. They must be used with interphase barriers or long terminal shields.

The lugs are supplied with interphase barriers and may be used for the types of cables listed below.

Crimp lugs for use with Compact NSXm							
Copper cables	size	rigid	70 mm ²	95 mm ²	120 mm ²		
		flexible	50 mm ²	70 mm ²	95 mm²		
	crimping		hexagonal barrels or punching				
Aluminium cables	size	rigid		95 mm ²	120 mm ²		
	crimping		hexagonal	barrels			

Bars

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

Bar and lugs dimensions

Dimensions	A	В	С	D	E
mm	6.4	≤8	≤20	7	≥17

Spreaders

Spreaders may be used to increase the pitch from 21 mm to 35 mm. Bars or cable lugs can be attached to the ends.

They are provided with M8 screws for power connection and interphase barriers (not compatible with long terminal shield). Rear insulation screens may have to be used too depending on the distance between the live uninsulated parts and the grounded metallic back pan (see page B-6).

Torque limiting breakaway bits

Torque limiting breakaway bits may be used, particularly in the field, to tighten at the right torque EverLink™, compression lug or busbar power connections.

Throwaway tips

Circuit breaker app	Qty				
Frame	Ampere rating	Torque		per kit	
BD, BG, BJ	15-125 A	5 N.m		6 or 8	
BD, BG, BJ	15-125 A	9 N.m		6 or 8	









Life Is On

Functions and characteristics Accessories and auxiliaries Insulation of live parts

A



Long terminal shields.



Interphase barriers.



Rear insulating screens.

Long terminal shields IP40

Compact NSXm 3P or 4P can be equiped with long terminal shields. They can be mounted upstream and downstream and are used for protection against direct contact with power circuits. They provide IP40 degree of protection and IK07 mechanical impact protection. Moreover long terminal shields can be mounted after product installation on plate or DIN rail, and can be removed and put in place even if there are auxiliary wires.

They are used for connection with cables or insulated bars.

They are comprised of two parts assembled with 2 locks and/or captive screws, forming an IP40 cover.

The top part is transparent in order to be able to see the connection through it and is equipped with sliding grids with break marks for precise adaptation to cables or insulated bars.

The rear part completely blocks off the connection zone. Partially cut squares can be removed to adapt to all types of connection for cables with lugs or copper bars.

Interphase barriers

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

- they clip easily onto the circuit breaker
- not compatible with long terminal shield
- 2 ways mounting: short / long insulation.

Rear insulating screens

Safety accessories providing insulation at the rear of the device. Their use may be mandatory if no long terminal shield depending of the distance between bare conductors and backplate (see table page B-6). The screen dimensions are shown below.

Circ	cuit breaker	NSXm
3P	W x H x thickness (mm)	110 x 84 x 1
4P	W x H x thickness (mm)	145 x 84 x 1

Standard

All Compact NSXm circuit breakers and switch-disconnectors have slots for the electrical auxiliaries listed below:

- 2 indication contacts (see page A-21) :
- □ 1 ON/OFF (OF)
- □ 1 trip indication (SD)
- either 1 MN undervoltage release or 1 MX shunt trip (see page A-22).

All these auxiliaries may be installed with a rotary handle or a toggle handle.

The following drawing indicates auxiliary possibilities depending on the type of device.

Thermal magnetic circuit breaker (TM-D), switch (NA)









3 poles device

4 poles device

Functions and characteristics Accessories and auxiliaries Connection of auxiliaries

Wiring

Electrical accessories are fitted with numbered spring terminal blocks for wires. The maximum wire size is 1.5 mm^2 for auxiliary switches (OF or SD), shunt trip MX or undervoltage release MN.

Electrical accessory wire routing can be exited out any of the four corners of the breaker, under the accessory cover even when using long terminal shield



Functions and characteristics Accessories and auxiliaries Indication contacts

Auxiliary and alarm indication contacts

Indication contacts provide remote information of the circuit breaker status and can thus be used for indications, electrical locking, relays, etc. They are common point changeover type contacts, with a normaly open (NO) contact and a normaly closed (NC) contact.

Open/Closed - Auxiliary switches (OF)

Indicates the position of the circuit breaker contacts.

Trip indication - Alarm switch (SD)

- Indicates that the circuit breaker has tripped due to:
- □ an electrical fault (overload, short circuit)
- the operation of a shunt trip
- undervoltage release
- □ the "push-to-trip" button.
- Resets when the circuit breaker is reset.

Installation and connection

- The auxiliary switch (OF) and alarm switch (SD) indication contacts snap into cavities behind the front accessory cover of the circuit breaker and their presence is visible on the front face through green flags.
- One model serves for all indication functions depending on where it is fitted in the circuit breaker.
- Each NO and NC spring terminal may be connected by one 0.5...1.5 mm² flexible copper wire and by two for the common point.

Electrical characteristics of auxiliary contacts

Characteristics

Rated therma	5					
Minimum load		5 mA at 17 V DC				
Utilization	cat. (IEC 60947-5-1)	AC12	AC15	DC12	DC13	DC14
Operational	24 V AC/DC	5	5	5	2.5	1
current (A)	48 V AC/DC	5	5	2.5	1.2	0.2
	110127 V AC / 110 V DC	5	4	0.6	0.35	0.05
	220/240 V AC	5	3	-	-	-
	250 V DC	-	-	0.3	0.05	0.03
	380/440 V AC	5	2.5	-	-	-
	660/690 V AC	5	0.11	-	-	-

Standards

- Auxiliary indicator contacts comply with IEC 60947-5-1 Standards.
- Auxiliary contacts have also been tested according IEC 60 947-5-4 standard.



Auxiliary Switch (OF) / Alarm Switch (SD).



eps

PB114961

Functions and characteristics Accessories and auxiliaries Voltage release

HBI14963 Apr

MX or MN voltage release.





Closing conditions of the MN release.

0.85

. 1 1 Un

DB421270.eps



Operating voltages for MN/MX.

Shunt trip (MX) and undervoltage release (MN)

A voltage release can be used to trip the circuit breaker using a control signal. They serve primarily for remote, emergency-off commands. It is advised to test the system every six months.

Shunt trip (MX)

- Trips the circuit breaker when the control voltage rises above 70 % of its rated voltage (Un).
- Impulse type ≥ 20 ms or maintained control signals.
- Shunt trip 110...130 V AC is suitable for ground-fault protection when combined with a Class I ground-fault sensing element.
- Continuous duty rated coil [1].

Undervoltage release (MN)

- Trips the circuit breaker when the control voltage drops below 35 % of its rated voltage.
- Between 35 % and 70 % of the rated voltage opening is possible but not guaranted.
- Above 70 % of the rated voltage, opening does not take place.
- Continuous duty rated coil.

Circuit breaker closing is possible only if the voltage exceeds 85 % of the rated voltage. If an undervoltage condition exists, operation of the closing mechanism of the circuit breaker will not permit the main contacts to touch, even momentarily. This is commonly called "Kiss Free".

Time-delay unit for an undervoltage release (MN)

A time delay unit eliminates the risk of nuisance tripping due to a transient voltage dip lasting less than 200 ms for fixed delay units and up to 3 seconds for adjustable units. For shorter micro-outages, a system of capacitors provides temporary supply to the MN at U > 0.7 Un to ensure non tripping.

The correspondence between MN and time-delay units is shown below.

Power supply	Corresponding MN
Unit with fixed delay 200 ms	
48 V A C	48 V DC
220 / 240 V AC	250 V DC
Unit with adjustable delay ≥ 200 ms	
48 - 60 V AC/DC	48 V DC
100 - 130 V AC/DC	125 V DC
220 - 250 V AC/DC	250 V DC

Installation and connection

Accessories snap into cavities under the front accessory cover of the circuit breaker. The presence and characteristics of the voltage release is visible from the front face through a window

- Terminals are spring type in order to insure a fast and reliable connection
- Each terminal may be connected by one 0.5...1.5 mm² flexible copper wire.

Operation

The circuit breaker must be reset locally after being tripped by shunt trip (MX) or undervoltage release (MN)

Tripping by the shunt trip or undervoltage release has priority over manual closing; in the presence of a standing trip order such an action does not result in any closing, even temporarily, of the main contacts

Endurance: 50 % of the rated mechanical endurance of the circuit breaker.

Standard

MN/MX voltage releases comply with IEC 60947-2 Standards.

[1] Except for MX 24 V AC/DC (in case of continuous activation, may generate some minor perturbation in sensitive environment).

A-22 Life Is On Schneider

Functions and characteristics Accessories and auxiliaries Rotary handles



Directly mounted rotary handle.



Door-mounted rotary handle.



Direct rotary handles

Installation

The direct mounted rotary handle has to be mounted by 3 screws on the front accessory cover.

Operation

The direct rotary handle maintains:

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

Device padlocking

The circuit breaker may be locked in the OFF position by using one to three padlocks (not supplied) or in ON position after customer modification of the rotary handle before installation, padlock shackle Ø4-8 mm. Locking in the ON position does not prevent the circuit breaker from tripping if a fault occurs. In this case, the handle remains in the ON position after the circuit breaker trips. Unlocking is required for the handle to go to the tripped then the OFF position.

Variations: door locking

Door locking built-in functionality can be activated by the customer to prevent opening the door when the circuit breaker is ON or in trip position. For exceptional situations, door locking can be temporarily disabled with a tool by qualified personel to open the door when the circuit breaker is closed.

Models

- Standard with black handle.
- VDE type with red handle and yellow bezel for machine tool control.

Extended rotary handles

Installation

The door-mounted (extended) rotary handle is made up of:

- a unit that has to be screwed on the front accessory cover of the circuit breaker
 an assembly (handle mechanism and front plate) on the door that is always
- secured in the same position, whether the circuit breaker is installed vertically or horizontally
- an adjustable extension shaft.

The handle mechanism is fixed with a nut (Ø22 mm) assembly easier. The Laser Square tool (GVAPL01) can be used to accurately align the hole on the door with the circuit breaker.

Operation when door is closed

The door mounted handle makes it possible to operate a circuit breaker installed in an enclosure from the front. The door mounted operating handle maintains:

- suitability for isolation
- indication of the three positions OFF (O), ON (I) and tripped (Trip)
- visibility and access to trip unit when the door is open
- degree of protection of the handle on the door: IP54 or IP65 as per IEC 529.

Mechanical door locking when device closed

A standard feature of the extended rotary handle is a locking function, built into the shaft, that disables door opening when the circuit breaker is in the ON or tripped positions.

Door locking can be temporarily disabled with a tool by qualified personnel to open the door without opening the circuit breaker. This operation is not possible if the handle is locked by a padlock.

Device and door padlocking

Padlocking locks the circuit breaker handle and disables door opening:

standard situation, in the OFF position, using 1 to 3 padlocks, shackle Ø4-8 mm, padlocks are not supplied

for the black handle, with a voluntary modification of the door handle (to be done by the customer during installation), in the ON and OFF positions. Locking in the ON position does not prevent the circuit breaker from tripping if a fault occurs. In this case, the handle remains in the ON position after the circuit breaker trips. Unlocking is required for the handle to go to the tripped then the OFF position.

Functions and characteristics Accessories and auxiliaries Rotary handles

A

Operation when door is opened

An open door shaft operator can be used to operate the circuit breaker when door is opened. This accessory complies with UL508.

The indication of the three positions OFF (O), ON (I) and tripped (Trip) is visible on the circuit breaker.

The circuit breaker itself may be locked in OFF position when the door is opened by 1 padlock / lockout hasp, shackle \emptyset 4-8 mm.

Shaft length

- The shaft length is the distance between the back of the circuit breaker and the door:
- minimum shaft length is 200 mm
- maximum shaft length is 600 mm
- shaft length must be adjusted.

Models

- Standard with black handle (IP54).
- VDE type with red handle and yellow bezel for machine tool control (IP54).
- IP65 with red handle and yellow bezel.

Side rotary handles (left or right)

Installation

- The side-mounted rotary handle is made up of:
- a unit that has to be screwed on the front accessory cover of the circuit breaker
- an assembly (handle and front plate) on the side (left or right) of the enclosure
- an adjustable extension shaft
- IP54 handle mechanisms
- IP65 handle mechanisms.
- The handle mechanism is fixed with a nut (Ø22 mm) to make easier the assembling.

Operation

The side mounted rotary handle makes it possible to operate circuit breakers installed in enclosure from the side. The side mounted rotary handle maintains:

- suitability for isolation
- indication of the three positions OFF (**O**), ON (**I**) and tripped (**Trip**). Moreover, the position is visible on the circuit breaker itself.
- visibility and access to trip unit when the door is open
- degree of protection of the handle on the side: IP54 or IP65 as per IEC 529.

Device padlocking

The circuit breaker may be locked in the OFF position, or, for the black rotary handle only, in ON position after voluntary modification of the side handle (to be done by the customer during installation), by using one to three padlocks, padlock shackle Ø4-8 mm; padlocks are not supplied.

Locking in the ON position does not prevent free circuit breaker from tripping if a fault occurs. In this case, the handle remains in the ON position after the circuit breaker tripping. Unlocking is required to go to the tripped then the OFF position.

Shaft length

The shaft length is the distance between the side of the circuit breaker and the side of the enclosure:

- minimum shaft length is 45 mm
- maximum shaft length is 480 mm
- shaft length must be adjusted.

Models

- Standard with black handle (IP54).
- VDE type with red handle and vellow bezel for machine tool control (IP54).
- IP65 with red handle and yellow bezel (by ordering a standard one and an IP65 universal handle).



Door-mounted rotary handle with open door shaft operator.



Side mounted rotary handle.
Functions and characteristics Accessories and auxiliaries Locks and sealing accessories

Handle padlocking device ^[1]



[1] Rotary handle has integrated padlocking capability.



LV429335: Bag of sealing accessories.

Locks

Padlocking systems can receive up to three padlocks with diameters of 5-8 mm ; padlocks not supplied. Locking in the OFF position guarantees isolation as per IEC 60947-2.

Control device	Function	Means	Required accessories
Toggle	Lock in OFF position	Padlock	Removable device
	Lock in OFF or ON position	Padlock	Fixed device
	Lock in OFF position	Padlock	Fixed device
Direct rotary handle	Lock in OFF position OFF or ON position ^[1]	Padlock	-
Extended/side rotary handle	Lock in OFF position OFF or ON position ^[2] with door opening prevented	Padlock	-

[1] Following a simple modification of the mechanism.

[2] Following a simple modification of the mechanism - black handle only.

Sealing accessories

Sealing accessories are available. Each bag of accessories contains all the parts required for the types of sealing indicated below.

- A bag contains:
- 6 sealing accessories
- 6 lead seals.

Types of seals and corresponding functions

Protected operations





Installation recommendations

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Safety clearances and minimum distances	.B-6
Voltage release wiring rules	.B-8

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Installation recommendations Operating and installation conditions

В







Altitude derating

Altitude does not significantly affect the characteristics of Compact NSXm circuit breakers up to 2000 m. Above this altitude, it is necessary to take into account the decrease in the dielectric strength and cooling capacity of air.

The following table gives the corrections to be applied for altitudes above 2000 m. The breaking capacities remain unchanged.

Altitude (m)		2000	3000	4000	5000
Impulse withstand voltage (kV)		8	7.1	6.4	5.6
Insulation voltage (V)	Ui	800	710	635	560
Maximum operational voltage (V)	Ue	690	690	635	560
Average current capacity (A) at 40 °C	ln x	1.0	0.98	0.96	0.94

Vibrations

Compact NSXm devices resist mechanical vibrations. They meet IEC 60068-2-6:

- 2.0 to 13.2 Hz and amplitude ±1 mm
- 13.2 to 100 Hz acceleration ±0.7 g.

Excessive vibration may cause tripping, breaks in connections or damage to mechanical parts.

Electromagnetic disturbances

- Compact NSXm devices are protected against:
- overvoltages caused by circuit switching
- overvoltages caused by an atmospheric disturbances or by a distribution-system outage (e.g. failure of a lighting system)
- devices emitting radio waves (radios, walkie-talkies, radar, etc.)
- electrostatic discharges produced directly by users.

Compact NSXm devices have successfully passed the electromagnetic-compatibility tests (EMC) defined by the international standards listed page A-3. These tests ensure that:

- no nuisance tripping occurs
- tripping times are respected.

Installation recommendations Operating and installation conditions

Protection degree

Protection degree of the product, according to IEC60259, depends of its configuration:

Colours	Definition
	IP54/65: side / front extended rotary handle
	IP40: front cover, side, back, long terminal shield, direct rotary handle
	IP20: power connection cover
	may be IP20 or less depending of the kind of power connections and cable size used







Power supply from the top or bottom

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

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



Installation recommendations Operating and installation conditions

Derating and correction factor depending of temperature

The overload protection is calibrated at 40 $^\circ C$ in the lab. This means that when the ambient temperature is less or greater than 40 $^\circ C$, the Ir protection pick-up is slightly modified.

Choosing the right rating depending of the temperature:

Over the reference temperature of 40 $^{\circ}\text{C},$ the circuit breaker has to be derated following the table below:

Temperature derating for thermal-magnetic (TM-D) NSXm at In

Temperature °C							
40	45	50	55	60	65	70	
Rating (/	A) In						
16	16	15	15	14	14	13	
25	24	24	23	23	22	21	
32	31	30	30	29	28	27	
40	39	38	37	36	34	33	
50	49	48	46	45	44	42	
63	61	60	58	56	54	53	
80	77	73	70	67	64	60	
100	96	94	90	87	83	80	
125	120	117	113	109	104	100	
160	155	149	144	139	133	126	

Doing the setting or calculating the tripping time for a given temperature:

After having determine the corrected ratio I/In, the tripping time at 40 °C is defined with the tripping curves (see page E-2 to page E-3).

To obtain the right setting or the tripping time at a different temperature, the ratio I/In has to be corrected with the correction factor below:

Correction factor table for thermal magnetic (TM-D) NSXm to determine setting or tripping time at In

Rating	Tem	Temperature °C											
(A) In	10	15	20	25	30	35	40	45	50	55	60	65	70
16	1.16	1.13	1.11	1.08	1.05	1.03	1.00	0.97	0.94	0.91	0.88	0.85	0.81
25	1.13	1.11	1.09	1.07	1.05	1.02	1.00	0.98	0.95	0.93	0.90	0.88	0.85
32	1.14	1.11	1.09	1.07	1.05	1.02	1.00	0.98	0.95	0.93	0.90	0.87	0.84
40	1.15	1.12	1.10	1.08	1.05	1.03	1.00	0.97	0.95	0.92	0.89	0.86	0.83
50	1.13	1.11	1.09	1.07	1.05	1.02	1.00	0.98	0.95	0.93	0.90	0.87	0.85
63	1.14	1.12	1.10	1.07	1.05	1.02	1.00	0.97	0.95	0.92	0.89	0.86	0.83
80	1.21	1.18	1.14	1.11	1.07	1.04	1.00	0.96	0.92	0.88	0.83	0.80	0.75
100	1.18	1.16	1.12	1.10	1.06	1.04	1.00	0.96	0.94	0.90	0.87	0.83	0.80
125	1.17	1.14	1.11	1.08	1.06	1.03	1.00	0.96	0.93	0.90	0.87	0.84	0.80
160	1.17	1.15	1.12	1.09	1.06	1.03	1.00	0.97	0.93	0.90	0.87	0.83	0.79

Doing the right setting depending of the temperature:

Example: What is the setting to obtain a real Ir of 105 A, taking into account the

temperature, for a Compact NSXm 125 A? The necessary dial setting, in amperes, is shown below.

- At 40 °C, Ir = 105 / 1 = 105 A
- At 20 °C, Ir = 105 / 1.11 = 95 A
- At 60 °C, Ir = 105 / 0.87 = 121 A.

Calculating the tripping time at Ir = In for a given temperature:

Example: What is the tripping time of a Compact NSXm 100A at Ir = In for an overload of 500 A?

- At 40 °C, I/Ir = 5, tripping time is between 6 and 60 seconds
- At 20 °C, I/Ir = 5 / 1.12 = 4.46, tripping time is between 8 and 80 seconds
- At 60 °C, I/Ir = 5 / 0.87 = 5.75, tripping time is between 5 and 50 seconds

For Ir = 0.7 to 0.9 In, additional correction factor need to be applied - please consult us.



Installation recommendations Safety clearances and minimum distances

General rules

When installing a circuit breaker, minimum distances (safety clearances) must be maintained between the device and panels, bars and other protection devices installed nearby. These distances, which depend on the ultimate breaking capacity, are defined by tests carried out in accordance with standard IEC 60947-2. If installation conformity is not checked by type tests, it is also necessary to:

- use insulated bars for circuit-breaker connections
- segregate the busbars using insulating screens.

For Compact NSXm devices, terminal shields and interphase barriers are recommended and may be mandatory depending on the kind of power connections of the device and type of installation.

Power connections

(mechanical impact).

The table below indicates the rules to be respected for Compact NSXm devices to ensure insulation of live parts for the various types of connection. Connection accessories such as crimp lugs, power distribution connectors, and spreaders are supplied with interphase barriers. Long terminal shields provide a degree of protection of IP40 (ingress) and IK07

Compact NSXm: rules to be respected to ensure insulation of live parts

EverLink™ connector with or without control wire terminal





Mechanical lug connector



Compression lug /

						- Berli		1.0.2		
Insulation access	sory options	per con	ductor ty	ре						
Type of conductor		No insulating accessory	Interphase barriers	Long terminal shield	No insulating accessory	Interphase barriers	Long terminal shield	No insulating accessory	Interphase barriers	Long terminal shield
Cables	DB419248.eps	Possible	Possible	Possible	Possible	Possible	Possible	-	-	-
Insulated bars	DB419249.eps	-	-	-	-	-	-	Forbidden	Mandatory	Possible ^[1]
Cables + crimp lugs	DB419250.eps	-	-	-	-	-	-	Forbidden	Mandatory	Possible ^[1]
Extension terminals: spreader	00119252.eps	-	-	-	-	-	-	Forbidden	Mandatory	-
Extension terminals: cables + power distribution connector	DB419253.eps	-	-	-	-	-	-	Forbidden	Mandatory	Possible [1]

[1] Instead of phase barriers.

Note: For uninsulated bar connections, please consult us.

Installation recommendations Safety clearances and minimum distances

IEC

IEC standard

Minimum safety clearances







Operating voltage	Clearanc Between	e (mm) Betwe	etal				
	devices	Painte	d sheet	metal	Bare sheet metal		
U ≤ 690 V		A1	A2	В	A1	A2	В
for devices equipped with:							
no accessories	0	30 mm	5 mm	0	40 mm	5 mm	5 mm
interphase barriers	0	0	0	0	0	0	5 mm
long terminal shields	0	0	0	0	0	0	5 mm

Minimum safety clearances to bare busbars

В



Operating voltage	Clearances to live bare busbars ^[1]							
	Spacing E ≤ 60 m	n m	Spacing E > 60 mm					
	D1	D2	D1	D2				
U ≤ 690 V	200 mm	100 mm	120 mm	60 mm				

[1] These clearances can be reduced for special installations as long as the configuration is checked by tests.

Compression lug safety clearance



An insulating screen or long terminal shield is required if C < 9.5 mm.

Installation recommendations Voltage release wiring rules









Shunt trip (MX) and undervoltage release (MN)

Recommended maximum cable lengths

In certain circumstances, high cable capacitance due to an excessive cable length could prevent an undervoltage release MN from dropping out resulting in safety issues. In case of a shunt trip MX, an untimely trip may occur due to capacitive current leak.

To avoid these dysfunction due to cable capacitance C, the maximum cable length (L) is defined by the following table for a 1.5 mm² cable.

Power supply voltage (Un)	Maximum cable length undervoltage trip (MN) [1]	Shunt trip (MX) ^[1]
24 V AC	1 243 m	3 653 m
24 V DC	unlimited	> 3653 m
48 V AC	583 m	1 667 m
48 V DC	unlimited	> 1667 m
110130 V AC	126 m	913 m
110130 V DC	unlimited	> 913 m
208-240 V AC	109 m	160 m
250 V DC	unlimited	> 160 m
277 V AC	98 m	120 m
380-415 V AC	86 m	80 m
440-480 V AC	56 m	67 m

[1] Make sure auxiliaries supply voltage is within working range (0.85 Un mini...1.1 Un maxi).

If a longer cable length is required, several solutions are possible to counteract excessive cable capacitance:

use DC operated auxiliaries

 use lower control voltage (make sure auxiliaries supply voltage is within working range: 0.85 Un minimum...1.1 Un maximum)

If high voltage and long control cables are required for an AC undervoltage release (MN), add a rectifier bridge (ref LV426899 – DIN rail compatible) in the control circuit. It will prevent drop out problems but increase operating time.

Electrical characteristics of MN/MX

Characteristics				
			AC	DC
Rated voltage (V)			24, 48, 110130, 208240, 277, 380415, 440 480	24, 48, 125, 250
Power requirements	MX	Pickup (< 50 ms)	< 6 VA	< 10 W
		Seal-in	< 4 VA	< 1 W
	MN		< 7 VA	< 2 W
Clearing time (ms)			< 50	< 50
Operating range			up to 1.1 Un	

Dimensions and connection

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Circuit breaker



Side view



Connectors

EverLink™ with control wire terminal connector

R421

DB421701.eps

DB421701.eps

DB421704.eps







EverLink™ without control wire terminal connector







Mechanical lug connector







Compression lug / busbar connector







Insulation of live parts





Interphase barriers







С



Mounting on DIN rail









Door cutout for 3P/4P



Extended rotary handle





Dimensions and front-panel cutout





Connection with accessories



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Wiring diagrams

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Wiring diagrams **Compact NSXm** Auxiliaries

The diagram is shown with circuits de-energized, relays in normal position, and all devices open, connected, and charged. Terminal connections shown as **O** must be connected by the customer.

Indication contacts



Remote operation

 \square



Wiring diagrams Compact NSXm Communication

Connection of circuit breakers to the Modbus communication network







Additional characteristics

Tripping curves TMD magnetic trip units, Protection of distribution systemsE-2 Reflex trippingE-4 Current and energy limiting curvesE-5

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Tripping curves TMD magnetic trip units, Protection of distribution systems



Reflex tripping.

Additional characteristics

Tripping curves TMD magnetic trip units, Protection of distribution systems



Reflex tripping.

For all TDM curves :

Values are given for 40 °C ambiant, Ir = 1xln, 3 poles loaded, cold start. For Ir = k x In, read the time corresponding to 1/k times given current. For 1 pole tripping, read the time corresponding to 0.85 times given current. For hot start (0.9 x Ir), divide max. time by 2, min. time by 4.

Additional characteristics

Tripping curves Reflex tripping

Compact NSXm and NSX100 to 630 devices incorporate the exclusive reflex-tripping system. This system breaks very high fault currents. The device is mechanically tripped via a "piston" actuated directly by the pressure produced in the breaking units by the short-circuit.

For high short-circuits, this system provides a faster break, thereby ensuring discrimination. Reflex-tripping curves are exclusively a function of the circuit-breaker rating.



Additional characteristics Current and energy limiting curves

The limiting capacity of a circuit breaker is its aptitude to let through a current, during a short-circuit, that is less than the prospective short-circuit current.



The exceptional limiting capacity of the Compact NSX range is due to the rotating double-break technique (very rapid natural repulsion of contacts and the appearance of two arc voltages in-series with a very steep wave front).

Ics = 100 % Icu

The exceptional limiting capacity of the Compact NSX and NSXm ranges greatly reduces the forces created by fault currents in devices.

The result is a major increase in breaking performance.

In particular, the service breaking capacity Ics is equal to 100 % of Icu. The Ics value, defined by IEC standard 60947-2, is guaranteed by tests comprising the following steps:

- break three times consecutively a fault current equal to 100 % of Icu
- check that the device continues to function normally, that is:
- □ it conducts the rated current without abnormal temperature rise

protection functions perform within the limits specified by the standard

suitability for isolation is not impaired.

Longer service life of electrical installations

Current-limiting circuit breakers greatly reduce the negative effects of short-circuits on installations.

Thermal effects

Less temperature rise in conductors, therefore longer service life for cables.

Mechanical effects

Reduced electrodynamic forces, therefore less risk of electrical contacts or busbars being deformed or broken.

Electromagnetic effects

Fewer disturbances for measuring devices located near electrical circuits.

Economy by means of cascading

Cascading is a technique directly derived from current limiting. Circuit breakers with breaking capacities less than the prospective short-circuit current may be installed downstream of a limiting circuit breaker. The breaking capacity is reinforced by the limiting capacity of the upstream device. It follows that substantial savings can be made on downstream equipment and enclosures.

Current and energy limiting curves

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

the actual peak current (limited current)

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

Example

What is the real value of a 150 kA rms prospective short-circuit (i.e. 330 kA peak) limited by an NSX250L upstream ? The answer is 30 kA peak (curve page <?>).

Maximum permissible cable stresses

The table below indicates the maximum permissible thermal stresses for cables depending on their insulation, conductor (Cu or Al) and their cross-sectional area (CSA). CSA values are given in mm² and thermal stresses in A²s.

CSA		1.5 mm ²	2.5 mm ²	4 mm ²	6 mm ²	10 mm ²
PVC	Cu	2.97x10 ⁴	8.26x10 ⁴	2.12x10⁵	4.76x10⁵	1.32x10 ⁶
	AI					5.41x10 ⁵
PRC	Cu	4.10x10 ⁴	1.39x10⁵	2.92x10⁵	6.56x10⁵	1.82x10 ⁶
	AI					7.52x10⁵
CSA		16 mm ²	25 mm ²	35 mm²	50 mm ²	
PVC	Cu	3.4x10 ⁶	8.26x10 ⁶	1.62x10 ⁷	3.31x10 ⁷	
	AI	1.39x10 ⁶	3.38x10 ⁶	6.64x10 ⁶	1.35x10 ⁷	
PRC	Cu	4.69x10 ⁶	1.39x10 ⁷	2.23x10 ⁷	4.56x10 ⁷	
	AI	1.93x10 ⁶	4.70x10 ⁶	9.23x10 ⁶	1.88x10 ⁷	

Example

Is a Cu/PVC cable with a CSA of 10 mm² adequately protected by an NSX160F? The table above indicates that the permissible stress is $1.32 \times 10^6 A^2 s$.

All short-circuit currents at the point where an NSX160F (Icu = 35 kA) is installed are limited with a thermal stress less than $6x10^5 A^{2}s$ (curve page <?>). Cable protection is therefore ensured up to the limit of the breaking capacity of the

cable protection is therefore ensured up to the limit of the breaking capacity of the circuit breaker.

E-5

Additional characteristics Current and energy limiting curves

Current-limiting curves





E-6 Life Is On Schneider

Catalogue numbers

Compact NSXm: complete fixed device

Compact NSXm	E/B (16/25 kA at 380/415 V)	F-2
Compact NSXm	F/N (36/50 kA at 380/415 V)	F-3
Compact NSXm	H (70 kA at 380/415 V)	F-4
Compact NSXm	NA	F-5

Compact NSXm: accessories

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Catalogue numbers **Compact NSXm: complete fixed device** Compact NSXm E/B (16/25 kA at 380/415 V)

Compact NSXm E (16 kA at 380/415 V)

With thermal-magne	tic trip unit TM-D					
- A A A	EverLink [™] connectors	EverLink™ connectors				
	Rating	3P	4P 3d	4P 4d		
	TM16D	LV426100	LV426110	LV426120		
	TM25D	LV426101	LV426111	LV426121		
	TM32D	LV426102	LV426112	LV426122		
	TM40D	LV426103	LV426113	LV426123		
	TM50D	LV426104	LV426114	LV426124		
·Ui	TM63D	LV426105	LV426115	LV426125		
	TM80D	LV426106	LV426116	LV426126		
	TM100D	LV426107	LV426117	LV426127		
	TM125D	LV426108	LV426118	LV426128		
	TM160D	LV426109	LV426119	LV426129		
	Compression lug/busbar connectors					
	Rating	3P	4P 3d	4P 4d		
	TM16D	LV426150	LV426160	LV426170		
	TM25D	LV426151	LV426161	LV426171		
	TM32D	LV426152	LV426162	LV426172		
	TM40D	LV426153	LV426163	LV426173		
	TM50D	LV426154	LV426164	LV426174		
	TM63D	LV426155	LV426165	LV426175		
	TM80D	LV426156	LV426166	LV426176		
	TM100D	LV426157	LV426167	LV426177		
	TM125D	LV426158	LV426168	LV426178		
	TM160D	LV426159	LV426169	LV426179		

Compact NSXm B (25 kA at 380/415 V)

EverLink™ connectors	3		
Rating	3P	4P 3d	4P 4d
TM16D	LV426200	LV426210	LV426220
TM25D	LV426201	LV426211	LV426221
TM32D	LV426202	LV426212	LV426222
TM40D	LV426203	LV426213	LV426223
TM50D	LV426204	LV426214	LV426224
TM63D	LV426205	LV426215	LV426225
TM80D	LV426206	LV426216	LV426226
TM100D	LV426207	LV426217	LV426227
TM125D	LV426208	LV426218	LV426228
TM160D	LV426209	LV426219	LV426229
Compression lug/bush	par connectors		
Rating	3P	4P 3d	4P 4d
TM16D	LV426250	LV426260	LV426270
TM25D	LV426251	LV426261	LV426271
TM32D	LV426252	LV426262	LV426272
TM40D	LV426253	LV426263	LV426273
TM50D	LV426254	LV426264	LV426274
TM63D	LV426255	LV426265	LV426275
TM80D	LV426256	LV426266	LV426276
TM100D	LV426257	LV426267	LV426277
TM125D	LV426258	LV426268	LV426278
TM160D	LV426259	LV426269	LV426279

DB421675.eps

DB421676.eps



Catalogue numbers

Compact NSXm: complete fixed device Compact NSXm F/N (36/50 kA at 380/415 V)

Compact NSXm F (36 kA at 380/415 V)

	Evert inkTM connectors					
	LVEI LITIK COTTIECTORS					
	Rating	3P	4P 3d	4P 4d		
	TM16D	LV426300	LV426310	LV426320		
	TM25D	LV426301	LV426311	LV426321		
	TM32D	LV426302	LV426312	LV426322		
	TM40D	LV426303	LV426313	LV426323		
	TM50D	LV426304	LV426314	LV426324		
	TM63D	LV426305	LV426315	LV426325		
	TM80D	LV426306	LV426316	LV426326		
	TM100D	LV426307	LV426317	LV426327		
	TM125D	LV426308	LV426318	LV426328		
	TM160D	LV426309	LV426319	LV426329		
	Compression lug/busbar connectors					
	Rating	3P	4P 3d	4P 4d		
	TM16D	LV426350	LV426360	LV426370		
	TM25D	LV426351	LV426361	LV426371		
	TM32D	LV426352	LV426362	LV426372		
	TM40D	LV426353	LV426363	LV426373		
	TM50D	LV426354	LV426364	LV426374		
	TM63D	LV426355	LV426365	LV426375		
	TM80D	LV426356	LV426366	LV426376		
	TM100D	LV426357	LV426367	LV426377		
	TM125D	LV426358	LV426368	LV426378		
	TM160D	LV426359	LV426369	LV426379		

Compac

With therr

t NSXM N (5	0 kA at 380/415 V)					
ial-magnetic trip unit TM-D						
ς	EverLink™ connectors					
3	Rating	3P	4P 3d	4P 4d		
01º	TM16D	LV426400	LV426410	LV426420		
7	TM25D	LV426401	LV426411	LV426421		
	TM32D	LV426402	LV426412	LV426422		
P	TM40D	LV426403	LV426413	LV426423		
3	TM50D	LV426404	LV426414	LV426424		
	TM63D	LV426405	LV426415	LV426425		
	TM80D	LV426406	LV426416	LV426426		
	TM100D	LV426407	LV426417	LV426427		
	TM125D	LV426408	LV426418	LV426428		
	TM160D	LV426409	LV426419	LV426429		
~	Compression lug/busbar connectors					
3	Rating	3P	4P 3d	4P 4d		
01 ²	TM16D	LV426450	LV426460	LV426470		
- - - - - - - - - - -	TM25D	LV426451	LV426461	LV426471		
	TM32D	LV426452	LV426462	LV426472		
	TM40D	LV426453	LV426463	LV426473		
	TM50D	LV426454	LV426464	LV426474		
	TM63D	LV426455	LV426465	LV426475		
	TM80D	LV426456	LV426466	LV426476		
	TM100D	LV426457	LV426467	LV426477		
	TM125D	LV426458	LV426468	LV426478		
	TM160D	LV426459	LV426469	LV426479		

Catalogue numbers **Compact NSXm: complete fixed device** Compact NSXm H (70 kA at 380/415 V)

Compact NSXm H (70 kA at 380/415 V)

with thermal-magnetic	INP UNIT IN-D				
	EverLink™ connectors				
	Rating	3P	4P 3d	4P 4d	
	TM16D	LV426500	LV426510	LV426520	
	TM25D	LV426501	LV426511	LV426521	
	TM32D	LV426502	LV426512	LV426522	
	TM40D	LV426503	LV426513	LV426523	
	TM50D	LV426504	LV426514	LV426524	
	TM63D	LV426505	LV426515	LV426525	
	TM80D	LV426506	LV426516	LV426526	
	TM100D	LV426507	LV426517	LV426527	
	TM125D	LV426508	LV426518	LV426528	
	TM160D	LV426509	LV426519	LV426529	
DB4211676 Apr	Compression lug/busbar connectors	3			
	Rating	3P	4P 3d	4P 4d	
	TM16D	LV426550	LV426560	LV426570	
	TM25D	LV426551	LV426561	LV426571	
	TM32D	LV426552	LV426562	LV426572	
	TM40D	LV426553	LV426563	LV426573	
	TM50D	LV426554	LV426564	LV426574	
	TM63D	LV426555	LV426565	LV426575	
	TM80D	LV426556	LV426566	LV426576	
	TM100D	LV426557	LV426567	LV426577	
	TM125D	LV426558	LV426568	LV426578	
	TM160D	LV426559	LV426569	LV426579	

Catalogue numbers Compact NSXm: complete fixed device Compact NSXm NA

Compact NSXm NA switch-disconnector



EverLink™ connectors		
Rating	3P	4P
50NA	LV426600	LV426610
100NA	LV426601	LV426611
160NA	LV426602	LV426612



Rating	3P	4P
100NA	LV426650	LV426660
125NA	LV426651	LV426661
160NA	LV426652	LV426662

Catalogue numbers **Compact NSXm: accessories** Connection and insulation

Connection accessories (Cu or Al)

EverLink™ connector with control wire 1x (2.5 to 95 mm ²); terminal ≤ 160 A Cu or ≤ 100 A Al	Set of 3 Set of 4 Set of 2	LV426970 LV426971
	Set of 4 Set of 2	LV426971
	Set of 2	
Auminium connector 1x (2.5 to /0 mm²); ≤ 125 A Cu or Al		LV426966
	Set of 3	LV426967
Aluminium connector for 3 cables ^{[1][*]} 3x (2.5 to 35 mm ²) ; ≤ 125 A Cu or Al	Set of 3	PDC3BD2
Aluminium connector for 6 cables ^{[1][*]} $6x (2.5 \text{ to } 16 \text{ mm}^2); \le 125 \text{ A Cu or Al}$	Set of 3	PDC6BD6
Compression lugs / busbar connectors		Lauren
Terminal with nuts and screws M6 ≤ 160 A	Set of 3	LV426960
	Set of 4	LV426961
Terminal extensions		
Spreaders from 27 to 35 mm pitch ^[1]	3P	LV426940
	4P	LV426941
Crimp lugs for copper cable ^[1]		
For cable 70 mm ² rigid / 50 mm ² flexible	Set of 3	LV426978
s do c	Set of 4	LV426979
For cable 95 mm ² rigid / 70 mm ² flexible	Set of 3	LV426980
**************************************	Set of 4	LV426981
For cable 120 mm ² rigid / 95 mm ² flexible	Set of 3	LV426982
	Set of 4	LV426983
Crimp lugs for aluminium cable ^[1]		
For cable 95 mm ² rigid	Set of 3	LV426984
	Set of 4	LV426985
E For cable 120 mm ² rigid	Set of 3	LV426976
0 04/2 14/0 0	Set of 4	LV426977
Torque limiting breakoway hits		1
	Set of 6	1.1/426000
9 N.III	Set of 8	
5 N m	Set of 6	1 1 1 1 2 6 9 9 2
	Set of 8	LV426993
Insulation accessories		
1 long terminal shield	3P	LV426912
	4P	LV426913
Decretation of the second seco		
Interphase barriers	Set of 6	LV426920
DB42:E43-045		
2 rear insulation screens	3P	LV426922
84218	4P	LV426923

[1] Supplied with 2 or 3 interphase barriers.[*] Available Q3 2017.
Catalogue numbers

Compact NSXm: accessories Electrical auxiliaries

	Electrical auxiliaries				
	Auxiliary contacts (chan	geover)			
sda		Standard OF or S	SD		LV426950
DB421545.e					
ebs	K	Pre-wired OF [2]			LV426951
21546.		Pre-wired SD [2]			LV426952
DB4					
	Voltage releases			Luna	la ma
ş		Standard	Voltage	MX	MN
548.ep		AC	24 V 50/60 Hz	LV426841	LV426801
B4215			48 V 50/60 Hz	LV426842	LV426802
Δ			110130 V 50/60 Hz	LV426843	LV426803
			220240 V 50 Hz	LV426844	LV426804
			277 \/ 60 Hz	1.1/426844	1.1/126905
			380 415 V 50 Hz	LV426846	1 V426806
			440 480 V 60 Hz	I V426846	1 V426807
		DC	24 V DC	I V426841	1 V426801
		20	48 V DC	LV426842	LV426802
			125 V DC	LV426843	LV426803
			250 V DC	LV426844	LV426815
		Pre-wired ^[2]	Voltage	MX	MN
eps		AC	24 V 50/60 Hz	LV426861	LV426821
21546			48 V 50/60 Hz	LV426862	LV426822
DB4			110130 V 50/60 Hz	LV426863	LV426823
			220240 V 50 Hz	LV426864	LV426824
			208240 V 60 Hz		
			277 V 60 Hz	LV426864	LV426825
			380415 V 50 Hz	LV426866	LV426826
			440480 V 60 Hz	LV426866	LV426827
		DC	24 V DC	LV426861	LV426821
			48 V DC	LV426862	LV426822
			125 V DC	LV426863	LV426823
			250 V DC	LV426864	LV426835
	Time delay unit for unde	rvoltage relea	se (MN)		
ωſ	Sel annu	MN 48 V 50/60) Hz with fixed time delay		
88.ep	00000	Composed of:	MN 48 V DC		LV426802
B4216			Delay unit 48 V 50/60 Hz		LV429426
۹ (MN 220-240 V	50/60 Hz with fixed time delay		
		Composed of:	MN 250 V DC		LV426815
			Delay unit 220-240 V 50/60 Hz		LV429427
		MN 48 V DC/A	C 50/60 Hz with adjustable time delay	y	
		Composed of:	MN 48 V DC		LV426802
			Delay unit 48 V DC/AC 50/60 Hz		33680
		MN 110-130 V	DC/AC 50/60 Hz with adjustable time	e delay	
		Composed of:	MN 125 V DC		LV426803
			Delay unit 100-130 V DC/AC 50/60 Hz		33681
		MN 220-250 V	DC/AC 50/60 Hz with adjustable time	e delay	· · ·
		Composed of:	MN 250 V DC	,	LV426815
			Delay unit 200-250 V DC/AC 50-60 Hz		33682

[2] Cable: 1 meter long - AWG 18 - 480 V UL certified.

Catalogue numbers **Compact NSXm: accessories** Rotary handles, locks and seals

Rotary handle		
Direct rotary handle		
	With black handle	LV426930
sda:	With red handle on yellow font	LV426931
		I
DB43		
Extended rotary handle		
	With black handle IP54	LV426932
	With red handle on yellow font IP54	LV426933
451	With red handle on yellow font IP65	LV426934
9		
	Open door shaft operator	LV426937
i (ABY		
1718 B421		
~~~~		
	Laser tool	GVAPL01
677.6		
38421		
Side rotary handle		
	With black handle IP54	LV426935
22.eps	With red handle on yellow font IP54	LV426936
Universal handle	Plack bandla ID54	11/400007
sda	Black nandle IP54	LV426997
	Red handle on yellow font IP54	LV426998
DB42	Red handle on yellow font IP65	LV426999
Locks		
Togale locking device for	or 1 to 3 padlocks	
	By removable device	29370
	-	
54.ep		
4215		
	By fixed device (OFE or ON)	1 1/426905
		LV420303
1992		
<u>س</u> ہ جن		
	By fixed device (OFF only)	LV426906
Star Star Star Star Star Star Star Star		
51 ²		
é l		
Lood Scaling acces	agerica	
Leau - Sealing acces		
n Dala	Bag of accessories	LV429375
¥4215		
<u>۵</u>		

### Catalogue numbers

# Compact NSXm: accessories Spare parts, test tool and software



#### Test tool, software, demo

Tes

DB111449.

DB111451.eps

Test tool		
	Pocket battery for Micrologic	LV434206
CP .		
	Maintenance case	TRV00910
	Comprising: USB maintenance interface	
	Power supply	
	USB cord	
	RJ45/RJ45 male cord	
$\sim$	Spare USB maintenance	TRV00911
. HO	interface	
R	Spare power supply	TRV00915
	110-240 V AC	
THE FU		
	Spare Micrologic cord for USB	TRV00917
	maintenance interrace	
AD .	Bluetooth/Modbus option for USB	VW3A8114
	maintenance interface	

Software

DB111452.eps

DB111453.eps

0 DB111448.eps Ø

DB117158.ept

Configu softwar	ration and setting e Ecoreach	LV4ST100
Test so	ftware LTU	LV4ST121 [2]
Monitor	ing software RCU	LV4SM100 ^[2]

#### Demo tool

Demo case for Compact	
unleadable from http://achnoider.eleatric.com	

[2] Downloadable from http://schneider-electric.com.

LV434207

N	of	e
1.4		

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N	ote


N	ote


# Life Is On Schneider

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