



Pact Series

ComPact NSX & NSXm

INDUSTRIAL AUTOMATION

Catalog 2019

Molded-case circuit breakers
and switch-disconnectors
from 16 to 630 A - up to 690 V



• WEB1 cat.2019

se.com

Life Is On

Schneider
Electric

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Innovation that protects

60 years of innovative and reliable protection

The Schneider Electric™ ComPact range is built on 60 years of expertise and leadership in industrial circuit breakers.

Schneider Electric is continuously introducing new features and innovations in its range of molded case circuit breakers.

The comprehensive, optimized ComPact NSX range covers your protection needs and now comes in a smaller size, and with integrated earth leakage protection.

The range combines intelligent metering and monitoring, along with advanced protective functions.

This range can be connected to Schneider Electric's open, interoperable, IoT- (Internet of Things) enabled EcoStruxure™ Power architecture. Through this platform we deliver enhanced value in terms of safety, reliability, efficiency, sustainability, and connectivity for our customers.

We leverage technologies in IoT, mobility, sensing, cloud, analytics, and cybersecurity to deliver Innovation at Every Level.

This includes connected products, edge control, apps, analytics and services.

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1952

ComPact NW



1974

ComPact C



1994

ComPact NS



2008

ComPact NSX



2017

ComPact NSXm



2018

ComPact NSX & NSXm with MicroLogic Vigi

Characteristics and performance

Com**Pact** NSXm circuit breakers from 16 to 160 A up to 690 V

 ComPact™ NSXm molded case circuit breaker (MCCB)



ComPact NSXm.

Common characteristics

Rated voltages	Insulation voltage (V)	Ui	800
	Insulation voltage for ELCB [1] (V)	Ui	500
	Impulse withstand voltage (kV)	Uimp	8
	Operational voltage (V)	Ue AC 50/60 Hz	690
	Operational voltage for ELCB [1] (V)	Ue AC 50/60 Hz	440
Suitability for isolation	IEC/EN 60947-2		yes
Utilisation category			A
Pollution degree	IEC 60664-1		3

Circuit breakers

Breaking capacity levels

Breaking capacity (kA rms)

Icu	AC 50/60 Hz	220...240 V
		380...415 V
		440 V
		500 V
		525 V
		660...690 V

Service breaking capacity (kA rms)

Ics	AC 50/60 Hz	220...240 V
		380...415 V
		440 V
		500 V
		525 V
		660...690 V

Durability (C-O cycles)

Mechanical

Electrical

440 V	In/2
	In
690 V	In/2
	In

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Protection and measurements

Overload / short-circuit protection	Thermal magnetic
	Electronic with Earth Leakage Protection (ELCB)
Options	Device status/control
	For ELCB [1]: alarming and fault differentiation

Installation / connections

Dimensions and weights

Dimensions (mm)	3P
	4P
W x H x D	ELCB [1]
	3P
	4P
Weight (kg)	ELCB [1]

Connections

Pitch (mm)	Standard
	With spreaders
EverLink lug Cu or Al [2] cables	Cross-section (mm²)
	Rigid
Crimp lugs Cu or Al	Cross-section (mm²)
	Flexible
	Rigid
	Flexible

Source changeover system

Manual mechanical interlocking

[1] ELCB: Earth Leakage Circuit Breaker (MicroLogic Vigi 4.1).

[2] Al up to 100 A.

Characteristics and performance

ComPact NSXm circuit breakers from 16 to 160 A up to 690 V



Common characteristics

Control	Manual	With toggle	<input checked="" type="radio"/>
		With direct or extended rotary handle	<input checked="" type="radio"/>
		With side rotary handle	<input checked="" type="radio"/>
Versions	Fixed		<input checked="" type="radio"/>

NSXm up to 63 A					NSXm from 80 to 160 A and ELCB [1]				
E	B	F	N	H	E	B	F	N	H
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									

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<input checked="" type="radio"/>	<input checked="" type="radio"/>
<input checked="" type="radio"/>	<input checked="" type="radio"/>
<input checked="" type="radio"/>	

81 x 137 x 80
108 x 137 x 80
108 x 144 x 80
1.06
1.42
1.63

27
35
95
70
120
95

<input checked="" type="radio"/>	<input checked="" type="radio"/>
----------------------------------	----------------------------------

Characteristics and performance

ComPact NSX circuit breakers from 100 to 250 A up to 690 V

A



ComPact NSX single-pole.



ComPact NSX two-pole.

ComPact circuit breakers

Number of poles		
Control	manual	toggle direct or extended rotary handle
Connections	electric	
	fixed	front connection rear connection
	withdrawable	front connection rear connection

Electrical characteristics as per IEC/EN 60947-2

Rated current (A)	In	40 °C
Rated insulation voltage (V)	Ui	
Rated impulse withstand voltage (kV)	Uimp	
Rated operational voltage (V)	Ue	AC 50/60 Hz DC

Type of circuit breaker

Ultimate breaking capacity (kA rms)	Icu	AC	220/240 V
		50/60 Hz	380/415 V 440 V 500/525 V 660/690 V
Service breaking capacity (kA rms)	Ics	DC	250 V (1P) 500 V (2P)
		% Icu	

Suitability for isolation			
Utilisation category			
Durability (C-O cycles)	mechanical		
	electrical	277 V	In/2 In

Protection and measurements

Type of trip units			
Ratings		In	
Overload protection (thermal)	long time threshold	Ir	
Short-circuit protection (magnetic)	instantaneous pickup	Im	value indicated for AC [1] real value for DC
Add-on earth-leakage protection	Vigi add-on combination with Vigirex relay		

Additional indication and control auxiliaries

Indication contacts	
Voltagages releases	MX shunt release MN undervoltage release

Installation

Accessories	terminal extensions and spreaders terminal shields and interphase barriers escutcheons
Dimensions (mm)	W x H x D
Weight (kg)	

Source changeover system

Manual mechanical interlocking	
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[1] The thresholds for TMD and TMG 1-pole and 2-pole magnetic trip units up to 63 A are indicated for AC. The real DC thresholds are indicated on the following line.

Characteristics and performance

ComPact NSX circuit breakers from 100 to 250 A up to 690 V

NSX100				NSX160				NSX250			
1		2		1		2		1			
⊙		⊙		⊙		⊙		⊙			
-		-		-		-		-			
-		-		-		-		-			
⊙		⊙		⊙		⊙		⊙			
⊙		⊙		⊙		⊙		⊙			
-		-		-		-		-			
-		-		-		-		-			
100		100		160		160		250			
750		750		750		750		750			
8		8		8		8		8			
277		690		277		690		277			
250		500		250		500		-			
F N M		F M S		F N M		F M S		N			
18 25 40		36 85 100		18 25 40		36 85 100		25			
- - -		18 25 70		- - -		18 25 70		-			
- - -		15 25 65		- - -		15 25 65		-			
- - -		10 18 35		- - -		10 18 35		-			
- - -		5 8 10		- - -		5 8 10		-			
36 50 85		36 85 100		36 50 85		36 85 100		-			
- - -		36 85 100		- - -		36 85 100		-			
100 %		100 %		100 %		100 %		100 %			
⊙		⊙		⊙		⊙		⊙			
A		A		A		A		A			
20000		20000		20000		20000		10000			
20000		20000		20000		20000		10000			
10000		10000		10000		10000		5000			
built-in thermal-magnetic				built-in thermal-magnetic				built-in thermal-magnetic			
16 20 25 30 40		50 63 80 100		125 160		160 200 250		160 200 250			
fixed		fixed		fixed		fixed		fixed			
16 20 25 30 40		50 63 80 100		125 160		160 200 250		160 200 250			
fixed		fixed		fixed		fixed		fixed			
190 190 300 300 500		500 500 640 800		1000 1250		850 850 850		850 850 850			
260 260 400 400 700		700 700 800 1000		1200 1250		- - -		- - -			
-		-		-		-		-			
-		⊙		-		⊙		-			
-		⊙		-		⊙		-			
-		⊙		-		⊙		-			
⊙		⊙		⊙		⊙		⊙			
⊙		⊙		⊙		⊙		⊙			
⊙		⊙		⊙		⊙		⊙			
35 x 161 x 86		70 x 161 x 86		35 x 161 x 86		70 x 161 x 86		35 x 161 x 86			
0.7		1.2		0.7		1.2		0.7			
⊙		⊙		⊙		⊙		⊙			



Characteristics and performance

ComPact NSX circuit breakers from 100 to 250 A up to 690 V

 ComPact NSX" MCCB from "Schneider electric"



ComPact NSX100/160/250.



ComPact NSX250 R.



ComPact NSX250 HB2.

[1] OSN: Over Sized Neutral protection for neutrals carrying high currents (e.g. 3rd harmonics).

[2] ZSI: Zone Selective Interlocking using pilot wires.

[3] Vigi add-on is not available for breaking capacity levels HB1/HB2.

[4] There is no 160 A frame, use 250 A frame with lower rating trip units for R, HB1, HB2.

[5] 2P circuit breaker in 3P case for B and F types, only with thermal-magnetic trip unit.

[6] Earth Leakage Circuit Breaker (MicroLogic Vigi 4.2 and 7.2 E).

Common characteristics

Rated voltages	Insulation voltage (V)	Ui	800
	Insulation voltage for ELCB [6]	Ui	500
	Impulse withstand voltage (kV)	Uimp	8
	Operational voltage (V)	Ue	AC 50/60 Hz 690
	Operation voltage for ELCB [6]	Ue	AC 50/60 Hz 440
Suitability for isolation		IEC/EN 60947-2	yes
Utilisation category			A
Pollution degree		IEC 60664-1	3

Circuit breakers

Breaking capacity levels

Electrical characteristics as per IEC/EN 60947-2

Rated current (A)	In	40 °C
Number of poles		

Breaking capacity (kA rms)

Icu	AC 50/60 Hz	220/240 V
		380/415 V
		440 V
		500 V
		525 V
		660/690 V

Service breaking capacity (kA rms)

Ics	AC 50/60 Hz	220/240 V
		380/415 V
		440 V
		500 V
		525 V
		660/690 V

Durability (C-O cycles)

Mechanical	Electrical	440 V	In/2
			In
		690 V	In/2
			In

Characteristics as per UL 508

Breaking capacity (kA rms)	AC 50/60 Hz	240 V
		480 V
		600 V

Protection and measurements

Short-circuit protection	Magnetic only
Overload / short-circuit protection	Thermal magnetic
	Electronic
	with neutral protection (Off-0.5-1-OSN) [1]
	with ground-fault protection
	with zone selective interlocking (ZSI) [2]

Display / I, U, f, P, E, THD measurements / interrupted-current measurement

Options	Power Meter display on door
	Operating assistance
	Counters
	Histories and alarms
	Metering Com
	Device status/control Com

Earth-leakage protection	By Vigi add-on [3]
	By Vigi relay

Installation / connections

Dimensions and weights

Dimensions (mm)	Fixed, front connections	2/3P
W x H x D		4P
Weight (kg)	Fixed, front connections	2/3P
		4P

Connections

Connection terminals	Pitch	With/without spreaders
Large Cu or Al cables	Cross-section	mm ²

Source-changeover system

Manual mechanical interlocking

Automatic source-changeover

Characteristics and performance

ComPact NSX switch-disconnectors from 100 to 630 A NA

Installation standards require upstream protection. However ComPact NSX100 to 630 NA switch-disconnectors are self-protected by their high-set magnetic release.

A



ComPact NSX100 to 250 NA.



ComPact NSX400 to 630 NA.

> Discover our specific switch-disconnectors offer: ComPact INS/INV



LVPED213024EN

[1] 2P in 3P case.

Common characteristics

Rated voltages	Insulation voltage (V) U_i	800
	Impulse withstand voltage (kV) U_{imp}	8
	Operational voltage (V) U_e	AC 50/60 Hz 690
Suitability for isolation	IEC/EN 60947-3	yes
Utilisation category	AC 22 A/AC 23 A - DC 22 A/DC 23 A	
Pollution degree	IEC 60664-1	3

Switch-disconnectors

Electrical characteristics as per IEC/EN 60947-3

Conventional thermal current (A) I_{th}	60 °C		
Number of poles			
Operational current (A) depending on I_e the utilisation category	AC 50/60 Hz		
		220/240 V	
		380/415 V	
		440/480 V	
		500/525 V	
		660/690 V	
	DC		
		250 V (1 pole)	
		500 V (2 poles in series)	
		750 V (3 poles in series)	
Short-circuit making capacity (kA peak) I_{cm}	min. (switch-disconnector alone)		
	max. (protection by upstream circuit breaker)		
Rated short-time withstand current (A rms) I_{cw}	for	1 s	
		3 s	
		20 s	
Durability (C-O cycles)	mechanical		
	electrical	AC	
		440 V	$I_n/2$
		690 V	I_n
			$I_n/2$
			I_n
	DC	250 V (1 pole) and	$I_n/2$
		500 V (2 poles in series)	I_n

Positive contact indication

Pollution degree

Protection

Add-on earth-leakage protection By Vigi add-on
By Vigirex relay

Additional indication and control auxiliaries

Indication contacts

Voltages releases MX shunt release
MN undervoltage release

Voltage-presence indicator

Current-transformer module

Ammeter module

Insulation monitoring module

Remote communication by bus

Device-status indication

Device remote operation

Operation counter

Installation / connections

Dimensions (mm)	fixed, front connections	2/3P
W x H x D		4P
Weight (kg)	fixed, front connections	3P
		4P

Source-changeover systems (see chapter on Source-changeover systems)

Manual mechanical interlocking

Automatic source-changeover

ComPact NSX special applications

High performances at 690 V



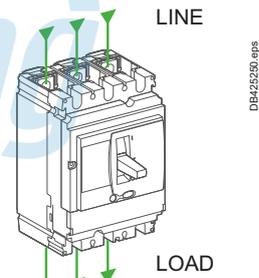
Circuit breakers			NSX100-250 [1]			NSX400			NSX630					
Breaking capacity levels			R	HB1	HB2	R	HB1	HB2	R	HB1	HB2			
Electrical characteristics														
Breaking capacity (kA rms)									Ir < 500 A		Ir > 501 A			
Icu	AC 50/60 Hz	220/240 V	200	-	-	200	-	-	200	-	-	200	-	-
		380/415 V	200	-	-	200	-	-	200	-	-	200	-	-
		440 V	200	-	-	200	-	-	200	-	-	200	-	-
		500 V	80	85	100	80	85	100	80	85	100	80	85	100
		525 V	65	80	100	65	80	100	65	80	100	65	80	100
		690 V	45	75	100	45	75	100	45	75	100	45	75	100
Service breaking capacity (kA rms)									Ir < 500 A		Ir > 501 A			
Ics	AC 50/60 Hz	220/240 V	200	-	-	200	-	-	200	-	-	200	-	-
		380/415 V	200	-	-	200	-	-	200	-	-	200	-	-
		440 V	200	-	-	200	-	-	200	-	-	200	-	-
		500 V	80	85	100	80	85	100	80	85	100	80	85	100
		525 V	65	80	100	65	80	100	65	80	100	-	-	-
		690 V	45	75	100	45	75	100	45	75	100	-	-	-

[1] There is no 160 A frame, use the 250 A frame with lower rating trip units.

Offer structure

The ComPact NSX HB offer has some differences compared to the standard NSX offer.

- 100 A frame and 250 A frame, there is no 160 A frame. The 125 - 160 A trip units are used in a 250 A frame.
- All R, HB1 and HB2 circuit breakers are restricted for use as line-load connection. They can not have power fed from the bottom of the circuit breaker. They will be marked with Line and Load markings.
- ComPact NSX400-630 R/HB1/HB2, U > 440 V, Icu 20 kA, Line/Load connection possible with insulation screen.
- All trip units will be assembled in the factory.



For breaking capacities R/HB1/HB2.

Type of protection	Distribution protection		Motor protection	
	TMD	MicroLogic	MA	MicroLogic
 PB110406_40 eps	ComPact NSX100	40-100	2.2: 40-100 5.2 E: 40-100 6.2 E: 40-100	12.5-100 2.2 M: 25, 50, 100 6.2 E-M: 25, 50, 100
	ComPact NSX250	125-250	2.2: 100, 160, 250 5.2 E: 100, 160, 250 6.2 E: 100, 160, 250	150, 220 2.2 M: 150, 220 6.2 E-M: 150, 220
 PB111001 eps	ComPact NSX400	-	2.3: 250, 400 5.3 E: 250, 400 6.3 E: 250, 400	- 1.3 M: 320 2.3 M: 320 6.3 M: 320
	ComPact NSX630	-	2.3: 630 5.3 E: 630 6.3 E: 630	- 1.3 M: 500 2.3 M: 500 6.3 M: 500

> Substitution and technical guide
ComPact NSX high performances

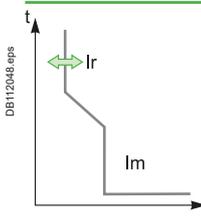


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Protection of distribution systems

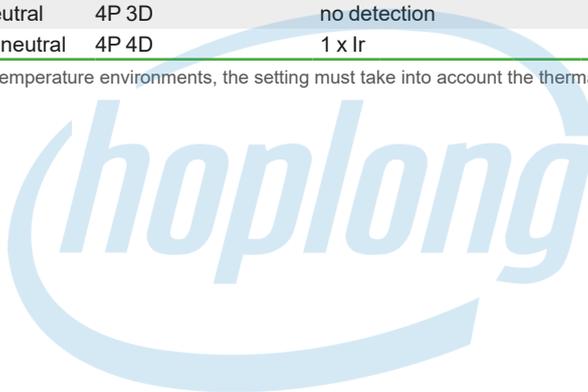
ComPact NSXm TM thermal-magnetic trip units

Thermal-magnetic trip units TM16D to 160D



Ratings (A)	In at 40 °C [1]	16	25	32	40	50	63	80	100	125	160
Circuit breaker	ComPact NSXm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Thermal protection											
Pick-up (A) tripping between 1.05 and 1.20 Ir	Ir = In x ...	adjustable in amps from 0.7 to 1 x In									
Time delay (s)	tr	non-adjustable									
Magnetic protection											
Pick-up (A)	Im	fixed									
accuracy ±20 %	ComPact NSXm	500	600	600	600	600	800	1000	1250	1250	1250
Time delay	tm	fixed									
Neutral protection											
Unprotected neutral	4P 3D	no detection									
Fully protected neutral	4P 4D	1 x Ir									

[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.



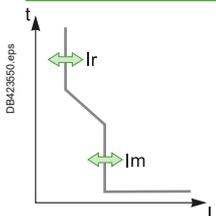
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Protection of distribution systems

ComPact NSX TM thermal-magnetic and MA magnetic trip units

Thermal-magnetic trip units TM16D to 250D



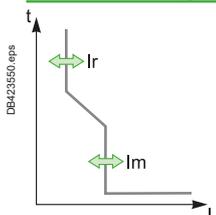
Ratings (A)	In at 40 °C [1]	16	25	32	40	50	63	80	100	125	160	200	250
Circuit breaker	ComPact NSX100	●	●	●	●	●	●	●	●	-	-	-	-
	ComPact NSX160	-	-	●	●	●	●	●	●	●	●	-	-
	ComPact NSX250	-	-	-	-	-	-	●	●	●	●	●	●

Thermal protection		
Pick-up (A) tripping between 1.05 and 1.20 Ir	Ir = In x ...	adjustable in amps from 0.7 to 1 x In
Time delay (s)	tr	non-adjustable
	tr at 1.5 x In	120 to 400
	tr at 6 x Ir	15

Magnetic protection		
Pick-up (A) accuracy ±20 %	Im	fixed
	ComPact NSX100	190 300 400 500 500 500 640 800
	ComPact NSX160/250	190 300 400 500 500 500 640 800 1250 1250 5 to 10xIn
Time delay	tm	fixed

Neutral protection		
Unprotected neutral	4P 3D	no detection
Fully protected neutral	4P 4D	1 x Ir

Thermal-magnetic trip units TM16G to 250G



Ratings (A)	In at 40 °C [1]	16	25	40	63	80	100	125	160	200	250
Circuit breaker	ComPact NSX100	●	●	●	●	●	●	-	-	-	-
	ComPact NSX160	-	●	●	●	●	●	●	●	-	-
	ComPact NSX250	-	-	-	-	-	-	-	●	●	●

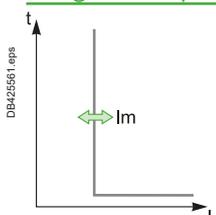
Thermal protection		
Pick-up (A) tripping between 1.05 and 1.20 Ir	Ir = In x ...	adjustable in amps from 0.7 to 1 x In
Time delay (s)	tr	non-adjustable
	tr at 1.5 x In	120 to 400
	tr at 6 x Ir	-

Magnetic protection		
Pick-up (A) accuracy ±20 %	Im	fixed
	ComPact NSX100	63 80 80 125 200 320 - - - -
	ComPact NSX160	- 80 80 125 200 320 440 440 - -
	ComPact NSX250	- - - - - - - 440 440 520
Time delay	tm	fixed

Neutral protection		
Unprotected neutral	4P 3D	no
Fully protected neutral	4P 4D	1 x Ir

[1] For temperatures greater than 40 °C, the thermal protection characteristics are modified. See the temperature derating table.

Magnetic trip units MA 2.5 to 220



Ratings (A)	In at 65 °C [1]	2.5	6.3	12.5	25	50	100 [1]	150	220
Circuit breaker	ComPact NSX100	●	●	●	●	●	●	-	-
	ComPact NSX160	-	-	-	●	●	●	●	-
	ComPact NSX250	-	-	-	-	-	●	●	●

Instantaneous magnetic protection			
Pick-up (A) accuracy ±20 %	Im = In x ...	Adjustable from 6 to 14 x In (settings 6, 7, 8, 9, 10, 11, 12, 13, 14)	Adjustable from 9 to 14 x In (settings 9, 10, 11, 12, 13, 14)
Time delay (ms)	tm	fixed	

[1] MA100 3P adjustable from 6 to 14 x In.
MA100 4P adjustable from 9 to 14 x In.

Note: all the trip units have a transparent lead-sealable cover that protects access to the adjustment dials.

Protection of distribution systems

ComPact NSXm + NSX circuit breakers trip units

B

Understanding the names of MicroLogic electronic trip units

Example: MicroLogic 6.3 E-M	6	3	E	M
	Protection	Frame	Measurements	Applications
	⋮ ↓	⋮ ↓	⋮ ↓	⋮ ↓
<p>1: I</p> <p>2: LS₀I</p> <p>4: LS₀IR</p> <p>5: LSI</p> <p>6: LSIG</p> <p>I: Instantaneous</p> <p>L: Long time</p> <p>R: Residual current</p> <p>S₀: Short time ^[2] (fixed delay)</p> <p>S: Short time</p> <p>G: Ground fault</p>	<p>1: NSXm 16 to 160</p>  <p>2: NSX 100/160/250</p>  <p>3: NSX 400/630</p> 	<p>A: Ammeter</p>  <p>E: Energy</p> 	<p>Distribution, otherwise</p> <p>G: Generator</p> <p>AB: Public distribution ^[1]</p> <p>M: Motors</p> <p>Z: 16 Hz 2/3 ^[1]</p>	
	⋮ ↓	⋮ ↓	⋮ ↓	⋮ ↓

Examples	6	3	E	M
MicroLogic 1.3	Instantaneous only	400 or 630 A	-	Distribution
MicroLogic 2.3	LS ₀ I	400 or 630 A	-	Distribution
MicroLogic Vigi 4.1	LS ₀ IR	16 to 160 A	-	Distribution
MicroLogic 5.2 A	LSI	100, 160 or 250 A	Ammeter	Distribution
MicroLogic 6.3 E-M	LSIG	400 or 630 A	Energy	Motor

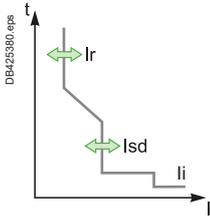
[1] AB-Z: except NSXm and NSX R, HB1, HB2.
 [2] LS₀I protection is standard on MicroLogic 2. To ensure selectivity, it offers short-time protection S₀ with a non-adjustable delay and instantaneous protection.

Protection of distribution systems

ComPact NSX MicroLogic 2 and 1.3 trip units

B

MicroLogic 2



Ratings (A)	In at 40 °C [1]	40	100	160	250	400	630
Circuit breaker	ComPact NSX100	●	●	-	-	-	-
	ComPact NSX160	●	●	●	-	-	-
	ComPact NSX250	●	●	●	●	-	-
	ComPact NSX400	-	-	-	●	●	-
	ComPact NSX630	-	-	-	●	●	●

L Long-time protection

Pick-up (A) tripping between 1.05 and 1.20 Ir	lo	value depending on trip unit rating (In) and setting on dial								
In = 40 A	lo =	18	18	20	23	25	28	32	36	40
In = 100 A	lo =	40	45	50	55	63	70	80	90	100
In = 160 A	lo =	63	70	80	90	100	110	125	150	160
In = 250 A (NSX250)	lo =	100	110	125	140	160	175	200	225	250
In = 250 A (NSX400)	lo =	70	100	125	140	160	175	200	225	250
In = 400 A	lo =	160	180	200	230	250	280	320	360	400
In = 630 A	lo =	250	280	320	350	400	450	500	570	630
Ir = lo x ...		9 fine adjustment settings from 0.9 to 1 (0.9 - 0.92 - 0.93 - 0.94 - 0.95 - 0.96 - 0.97 - 0.98 - 1) for each value of lo								

Time delay (s) accuracy 0 to -20%	tr	non-adjustable								
	1.5 x Ir	400								
	6 x Ir	16								
	7.2 x Ir	11								

Thermal memory 20 minutes before and after tripping

S Short-time protection with fixed time delay

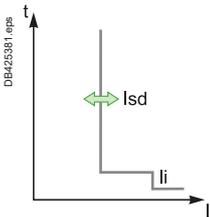
Pick-up (A) accuracy ±10 %	Isd = Ir x ...	1.5	2	3	4	5	6	7	8	10
Time delay (ms)	tsd	non-adjustable								
	Non-tripping time	20								
	Maximum break time	80								

I Instantaneous protection

Pick-up (A) accuracy ±15 %	Ii non-adjustable	600	1500	2400	3000	4800	6900			
	Non-tripping time	10 ms								
	Maximum break time	50 ms								

[1] If the trip units are used in high-temperature environments, the MicroLogic setting must take into account the thermal limitations of the circuit breaker. See the temperature derating table.

MicroLogic 1.3 M



Ratings (A)	In at 65 °C [1]	320	500
Circuit breaker	ComPact NSX400	●	-
	ComPact NSX630	●	●

S Short-time protection

Pick-up (A) accuracy ±15 %	Isd	Adjustable directly in amps	
		9 settings: 1600, 1920, 2240, 2560, 2880, 3200, 3520, 3840, 4160 A	9 settings: 2500, 3000, 3500, 4000, 4500, 5000, 5500, 6000, 6500 A
Time delay (ms)	tsd	Non-adjustable	
	Non-tripping time	10	
	Maximum break time	60	

I Instantaneous protection

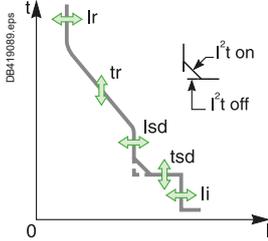
Pick-up (A) accuracy ±15 %	Ii non-adjustable	4800	6500
	Non-tripping time	0	
	Maximum break time	30 ms	

[1] Motor standards require operation at 65 °C. Circuit-breaker ratings are derated to take this requirement into account.

Protection of distribution systems

ComPact NSX MicroLogic 5 / 6 A or E trip units

Protection MicroLogic 5 / 6 A or E trip units



Ratings (A)	In at 40 °C [1]	40 [2]	100	160	250	400	630
Circuit breaker	ComPact NSX100	●	●	-	-	-	-
	ComPact NSX160	●	●	●	-	-	-
	ComPact NSX250	●	●	●	●	-	-
	ComPact NSX400	-	-	-	-	●	-
	ComPact NSX630	-	-	-	-	●	●

L Long-time protection

Pick-up (A) tripping between 1.05 and 1.20 Ir	Ir = ...	dial setting	value depending on trip unit rating (In) and setting on dial									
	In = 40 A	Io =	18	18	20	23	25	28	32	36	40	
	In = 100 A	Io =	40	45	50	55	63	70	80	90	100	
	In = 160 A	Io =	63	70	80	90	100	110	125	150	160	
	In = 250 A	Io =	100	110	125	140	160	175	200	225	250	
	In = 400 A	Io =	160	180	200	230	250	280	320	360	400	
	In = 630 A	Io =	250	280	320	350	400	450	500	570	630	
		keypad setting	Fine adjustment in 1 A steps below maximum value set on dial									
Time delay (s) accuracy 0 to -20 %	tr = ...	keypad setting	0.5	1	2	4	8	16				
		1.5 x Ir	15	25	50	100	200	400				
		6 x Ir	0.5	1	2	4	8	16				
		7.2 x Ir	0.35	0.7	1.4	2.8	5.5	11				
Thermal memory			20 minutes before and after tripping									

S Short-time protection with adjustable time delay

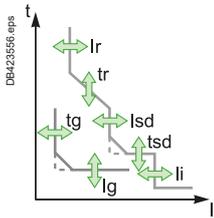
Pick-up (A) accuracy ±10 %	Isd = Ir x ...	dial setting for MicroLogic 5	1.5	2	3	4	5	6	7	8	10	
		keypad settings for MicroLogic 6	Adjustment in steps of 0.5 x Ir over the range 1.5 x Ir to 10 x Ir									
Time delay (s)	tsd = ...	keypad setting	0	0.1	0.2	0.3	0.4					
		I²Off setting	-	0.1	0.2	0.3	0.4					
		I²On setting	-	0.1	0.2	0.3	0.4					
		Non-tripping time (ms)	20	80	140	230	350					
		Maximum break time (ms)	80	140	200	320	500					

I Instantaneous protection

Pick-up (A) accuracy ±15 %	li = In x	keypad setting	Adjustment in steps of 0.5 x In over the range 1.5 x In to: 15 x In (40 to 160 A), 12 x In (250 to 400 A) or 11 x In (630 A)									
		Non-tripping time	10 ms									
		Maximum break time	50 ms									

G Ground-fault protection - for MicroLogic 6 A or E

Pick-up (A) accuracy ±10 %	Ig = In x	dial setting	Fine adjustment in 0.05 A steps using the keypad									
	In = 40 A		0.4	0.4	0.5	0.6	0.7	0.8	0.9	1	Off	
	In > 40 A		0.2	0.3	0.4	0.5	0.6	0.7	0.8	1	Off	
Time delay (s)	tg = ...	keypad setting	0	0.1	0.2	0.3	0.4					
		I²Off setting	-	0.1	0.2	0.3	0.4					
		I²On setting	-	0.1	0.2	0.3	0.4					
		Non-tripping time (ms)	20	80	140	230	350					
		Maximum break time (ms)	80	140	200	320	500					
Test	Ig function		built-in									



[1] If the trip units are used in high-temperature environments, the MicroLogic setting must take into account the thermal limitations of the circuit breaker. See the temperature derating table.

[2] For 40 A rating, the neutral N/2 adjustment is not possible.

B

Protection of distribution systems

ComPact NSXm MicroLogic Vigi 4.1 trip unit with integrated earth leakage protection

Indications

Front indications

- Green "Ready" LED: flashes slowly when the circuit breaker is ready to trip in the event of an overload or short-circuit fault.
- Orange overload pre-alarm LED: steady on when $I > 90\% I_r$.
- Red overload LED: steady on when $I > 105\% I_r$.
- Screen that indicate an earth leakage fault trip - reset when product is powered.



Alarming and fault differentiation

A side module SDx can be installed to provide alarming and fault differentiation:

- overload alarm ($I > 105\% I_r$)
- overload trip indication
- earth leakage alarm ($I_{\Delta n} > 80\%$ threshold)
- earth leakage trip indication.

This module receives the signal from the MicroLogic electronic trip unit via an optical link and makes it available on the terminal block through NO/NC dry contacts.

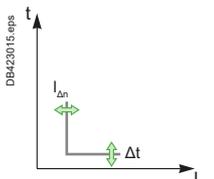
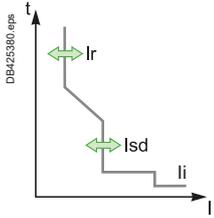
The signal is cleared when the circuit breaker is restarted.

For description, see page C-11.

B

MicroLogic Vigi 4.1

	Ratings (A)	In at 40 °C [1]	25	50	100	160					
	Circuit breaker	ComPact NSXm	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>					
L Long-time protection											
Pick-up (A)	I _r value depending on trip unit rating (I _n) and setting on dial										
tripping between 1.05 and 1.20 I _r	I _n = 25 A	I _r =	10	11	12	14	16	18	20	22	25
	I _n = 50 A	I _r =	20	22	25	28	32	36	40	45	50
	I _n = 100 A	I _r =	40	45	50	56	63	70	80	90	100
	I _n = 160 A	I _r =	63	70	80	90	100	115	130	145	160
Time delay (s)	tr non-adjustable										
accuracy 0 to -20%	1.5 x I _r 200										
	6 x I _r 8										
	7.2 x I _r 5										
Thermal memory	20 minutes before and after tripping										
S₀ Short-time protection with fixed time delay											
Pick-up (A)	I _{sd} = I _r x ...		1.5	2	3	4	5	6	7	8	10
accuracy ±15 %											
Time delay (ms)	tsd	non-adjustable									
	Non-tripping time	20									
	Maximum break time	80									
I Instantaneous protection											
Pick-up (A)	I _i non-adjustable	375	750	1500	2000						
accuracy ±15 %	Non-tripping time	10 ms			5 ms						
	Maximum break time	50 ms									
R Earth leakage protection											
Sensitivity I _{Δn} (A)	Adjustable	I _{Δn} =	0.03	0.1	0.3	0.5	1	3	5		
	Type	A and AC							AC		
Time delay Δt (ms)	Adjustable	Δt =	0	60 [2]	150 [2]	500 [2]	1000 [2]				
	Maximum break time (ms)	< 40	< 140	< 300	< 800	< 1500					



[1] If the circuit breakers are used in high-temperature environments, the setting must take into account the thermal limitations of the circuit breaker.
 [2] If the sensitivity is set to 30 mA, there is no time delay, whatever the time-delay setting.

Protection of distribution systems

ComPact NSX MicroLogic Vigi 4 trip unit with integrated earth leakage protection

Indications

Front indications

- Green "Ready" LED: flashes slowly when the circuit breaker is ready to trip in case of a fault.
- Orange overload pre-alarm LED: steady ON when $I > 90\% I_r$.
- Red overload LED: steady ON when $I > 105\% I_r$.
- Yellow Screen: indicates an earth leakage fault (reset when operating OFF/ON for the "trip" or when pressing >3sec the T button for the Alarm).



Alarming and fault differentiation

- An overload trip signal can be remotely available by installing an SDx relay module inside the circuit breaker on both "trip" and "alarm" versions.
- An earth leakage trip signal can be remotely available by installing an SDx module, only on the "trip" version.
- An earth leakage alarm signal (MicroLogic Vigi 4 AL) can be remotely available on the SDx, for the circuit breaker with MicroLogic Vigi 4 Alarm". This module receives the signal from the MicroLogic trip unit via an optical link and makes it available on the terminal block. The signal is reset when the breaker is operated.

MicroLogic Vigi 4

	Ratings (A)	In at 40 °C [1]	40	100	160	250	400	570			
	Circuit breaker		●	●							
	ComPact NSX100		●	●							
	ComPact NSX160		●	●	●						
	ComPact NSX250		●	●	●	●					
	ComPact NSX400						●				
	ComPact NSX630						●	●			
L Long-time protection											
Pick-up (A) tripping between 1.05 and 1.20 Ir	In = 40 A	Io =	value depending on the rating (In) and the dial setting								
	In = 100 A	Io =	18	18	20	23	25	28	32	36	40
	In = 160 A	Io =	40	45	50	55	63	70	80	90	100
	In = 250 A	Io =	63	70	80	90	100	110	125	150	160
	In = 400 A	Io =	100	110	125	140	160	175	200	225	250
	In = 570 A	Io =	160	180	200	230	250	280	320	360	400
	Ir = Io x		9 fine adjustment settings from 0.9 to 1 (0.9 – 0.92 ... 0.98 - 1)								
Time delay (s) accuracy 0 to -20%	tr		non-adjustable								
	at	1.5 x Ir	tr = 400 s								
	at	6 x Ir	tr = 16 s								
	at	7.2 x Ir	tr = 11 s								
Thermal memory			20 minutes before and after tripping								
S₀ Short-time protection with fixed time delay											
Pick-up (A) accuracy ±10%	Isd = Ir x ...		1.5	2	3	4	5	6	7	8	10
Time delay (ms)	tsd		non-adjustable								
	Non-tripping time		20								
	Maximum break time		80								
I Instantaneous protection											
Pick-up (A) accuracy ±15%	Ii non-adjustable		600	1500	2400	3000	4800	6900			
	Non-tripping time		10 ms								
	Maximum break time		50 ms								
R Earth leakage protection / Earth leakage alarm											
Sensitivity (A)	Type A, adjustable (9 positions)										
	In = 40 A	ΔIn =	0.03	0.03	0.1	0.3	0.5	1	3	5	OFF
	In = 100 A	ΔIn =	0.03	0.03	0.1	0.3	0.5	1	3	5	OFF
	In = 160 A	ΔIn =	0.03	0.03	0.1	0.3	0.5	1	3	5	OFF
	In = 250 A	ΔIn =	0.03	0.03	0.1	0.3	0.5	1	3	5	OFF
	In = 400 A	ΔIn =	0.3	0.3	0.5	1	3	5	10	10	OFF
	In = 570 A	ΔIn =	0.3	0.3	0.5	1	3	5	10	10	OFF
Time delay Δt (ms)	Adjustable	Δt =	0	60 [2]	150 [2]	500 [2]	1000 [2]				
	Maximum break time (ms)		<40	<140	<300	<800	<1500	ms			

[1] For the use in high temperature environment, take into account the thermal limitation of the breaker.

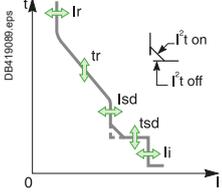
[2] The time delay (Δt) is mandatory and forced to "Δt = 0" when the ΔIn dial is set on 30mA (0.03). The time delay has no effect when the dial ΔIn is set to the "OFF" position.

Protection of distribution systems

ComPact NSX MicroLogic Vigi 7 E trip unit

with integrated earth leakage protection

MicroLogic Vigi 7 E



Ratings (A)	In at 40 °C [1]	40 [2]	100	160	250	400	570
Circuit breaker	ComPact NSX100	●	●				
	ComPact NSX160	●	●	●			
	ComPact NSX250	●	●	●	●		
	ComPact NSX400					●	
	ComPact NSX630					●	●

L Long-time protection

Pick-up (A)	Dial setting	value depending on the rating (In) and the dial setting									
tripping between 1.05 and 1.20 Ir	Ir	In = 40 A	lo = 18	18	20	23	25	28	32	36	40
	In = 100 A	lo = 40	45	50	55	63	70	80	90	100	
	In = 160 A	lo = 63	70	80	90	100	110	125	150	160	
	In = 250 A	lo = 100	110	125	140	160	175	200	225	250	
	In = 400 A	lo = 160	180	200	230	250	280	320	360	400	
	In = 570 A	lo = 250	280	320	350	400	450	500	570	570	
Time delay (s) accuracy 0 to -20%	Keypad setting	fine adjustment in 1A step below the max value set on the dial									
	tr	Keypad setting	0.5	1	2	4	8	16			
		at 1.5 x Ir	15	25	50	100	200	400			
		at 6 x Ir	0.5	1	2	4	8	16			
		at 7.2 x Ir	0.35	0.7	1.4	2.8	5.5	11			

S Short-time protection with adjustable time delay

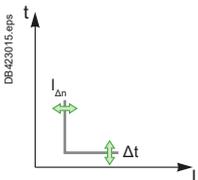
Pick-up (A) accuracy ±10 %	Isd = Ir x ... keypad settings	Adjustment in steps of 0.5 x Ir over the range 1.5 x Ir to 10 x Ir									
Time delay (ms)	tsd	I ² Of	0	0.1	0.2	0.3	0.4				
	Keypad	I ² On	-	0.1	0.2	0.3	0.4				
	Non-tripping time (ms)		20	80	140	230	350				
Maximum break time		80	140	200	320	500					

I Instantaneous protection

Pick-up (A) accuracy ±15 %	Ii = In x	Adjustment in steps of 0.5 x In over the range 1.5 x In to:								
	Keypad settings	15 x In (40 to 160A), 12 x In (250 to 400A), or 12 x In (570A)								
	Non-tripping time	10 ms								
	Maximum break time	50 ms								

R Earth leakage protection / Earth leakage alarm

Sensitivity (A)	Type A, adjustable (9 positions)									
	In = 40 A	IΔn = 0.03	0.03	0.1	0.3	0.5	1	3	5	OFF
	In = 100 A	IΔn = 0.03	0.03	0.1	0.3	0.5	1	3	5	OFF
	In = 160 A	IΔn = 0.03	0.03	0.1	0.3	0.5	1	3	5	OFF
	In = 250 A	IΔn = 0.03	0.03	0.1	0.3	0.5	1	3	5	OFF
	In = 400 A	IΔn = 0.3	0.3	0.5	1	3	5	10	10	OFF
	In = 570 A	IΔn = 0.3	0.3	0.5	1	3	5	10	10	OFF
Time delay Δt (ms)	Adjustable keypad	Δt = 0	60 [3]	150 [3]	500 [3]	1000 [3]				
	Maximum break time (ms)	<40	<140	<300	<800	<1500				



[1] For the use in high temperature environment, take into account the thermal limitation of the breaker.
 [2] For the rating 40A, the N/2 adjustment is not possible
 [3] The time delay (Δt) is mandatory and designed "Δt = 0" when the IΔn dial is set on 30mA (0.03). The time delay has no effect when the dial IΔn is set to the "OFF" position.



Protection of distribution systems

ComPact NSX Vigi add-on protection against insulation faults

ComPact NSX Vigi add-on

Addition of the Vigi add-on does not modify circuit-breaker characteristics:

- compliance with standards
- degree of protection, class II front-face insulation
- positive contact indication
- electrical characteristics
- trip-unit characteristics
- installation and connection modes
- indication, measurement and control auxiliaries
- installation and connection accessories.

Dimensions and weights		NSX100/160/250	NSX400/630
Dimensions	3 poles	105 x 236 x 86	140 x 355 x 110
W x H x D (mm)	4 poles	140 x 236 x 86	185 x 355 x 110
Weight (kg)	3 poles	2.5	8.8
	4 poles	3.2	10.8

Compliance with standards

- IEC 60947-2, annex B.
- IEC 60755, Type A, immunity to DC components up to 6 mA.
- Operation down to -25 °C as per VDE 664.

Remote indications

Vigi add-on may be equipped with an auxiliary contact (SDV) to remotely signal tripping due to an earth fault.

Use of 4-pole Vigi add-on with a 3-pole ComPact NSX

In a 3-phase installation with an uninterrupted neutral, an accessory makes it possible to use a 4-pole Vigi add-on with connection of the neutral cable.

Power supply

Vigi add-on are self-powered internally by the distribution-system voltage and therefore do not require any external source. They continue to function even when supplied by only two phases.

Vigi add-on selection

Type	Vigi ME	Vigi MH	Vigi MB
Number of poles	3, 4 ^[1]	3, 4 ^[1]	3, 4 ^[1]
NSX100	●	●	-
NXS160	●	●	-
NSX250	-	●	-
NSX400	-	-	●
NSX630	-	-	●

Protection characteristics

Sensitivity	fixed	adjustable	adjustable
I _{Δn} (A)	0.3	0.03 - 0.3 - 1 - 3 - 10	0.3 - 1 - 3 - 10 - 30
Time delay	fixed	adjustable	adjustable
Intentional delay (ms)	< 40	0 - 60 ^[2] - 150 ^[2] - 310 ^[2]	0 - 60 - 150 - 310
Max. break time (ms)	< 40	< 40 < 140 < 300 < 800	< 40 < 140 < 300 < 800
Rated voltage V AC 50/60 Hz	200...440	200... 440 - 440...550	200...440 - 440...550

[1] Vigi 3P add-on may also be used on 3P circuit breakers used for two-phase protection.

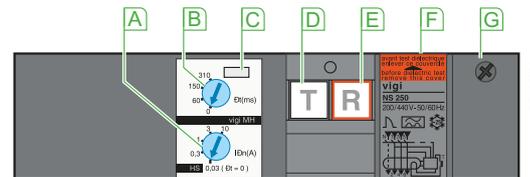
[2] If the sensitivity is set to 30 mA, there is no time delay, whatever the time-delay setting.

Operating safety

The Vigi add-on is a user safety device. It must be tested at regular intervals (every 6 months) via test button.



PE103560-36.eps



DB42378.eps

- A** Sensitivity setting
- B** Time-delay setting (for selective earth-leakage protection).
- C** Lead-seal fixture for controlled access to settings.
- D** Test button simulating an earth-fault for regular checks on the tripping function
- E** Reset button (reset required after earth-fault tripping).
- F** Rating plate
- G** Housing for SDV auxiliary contact.

Plug-in devices

The Vigi add-on can be installed on a plug-in base. Special accessories are required (see catalog number chapter).



ComPact NSX motor protection

Motor-feeder characteristics and solutions

The trip class determines the trip curve of the thermal protection device (inverse-time curve) for a motor feeder. Standard IEC 60947-4-1 defines trip classes 5, 10, 20 and 30. These classes are the maximum durations, in seconds, for motor starting with a starting current of 7.2 I_r, where I_r is the thermal setting indicated on the motor rating plate.

Example: In class 20, the motor must have finished starting within 20 seconds (6 to 20 s) for a starting current of 7.2 I_r.

Trip class of a thermal-protection device

The motor feeder includes thermal protection that may be built into the circuit breaker. The protection must have a trip class suited to motor starting. Depending on the application, the motor starting time varies from a few seconds (no-load start) to a few dozen seconds (high-inertia load). Standard IEC 60947-4-1 defines the trip classes below as a function of current setting I_r for thermal protection.

Trip class of thermal relays as a function of their I_r setting

Class	1.05 I _r [1]	1.2 I _r [1]	1.5 I _r [2]	7.2 I _r [1]
5	t > 2 h	t < 2h	t < 2 mn	2 s < t ≤ 5 s
10	t > 2 h	t < 2h	t < 4 mn	4 s < t ≤ 10 s
20	t > 2 h	t < 2h	t < 8 mn	6 s < t ≤ 20 s
30	t > 2 h	t < 2h	t < 12 mn	9 s < t ≤ 30 s

[1] Time for a cold motor (motor off and cold).

[2] Time for warm motor (motor running under normal conditions).

Currents of squirrel-cage motors at full rated load

Standardised values in HP

Rated operational power hp	Indicative values of the rated operational currents I _e (A) for						
	110 - 120 V	200 V	208 V	220 - 240 V	380 - 415 V	440 - 480 V	550 - 600 V
1/2	4.4	2.5	2.4	2.2	1.3	1.1	0.9
3/4	6.4	3.7	3.5	3.2	1.8	1.6	1.3
1	8.4	4.8	4.6	4.2	2.3	2.1	1.7
1 1/2	12	6.9	6.6	6	3.3	3	2.4
2	13.6	7.8	7.5	6.8	4.3	3.4	2.7
3	19.2	11	10.6	9.6	6.1	4.8	3.9
5	30.4	17.5	16.7	15.2	9.7	7.6	6.1
7 1/2	44	25.3	24.2	22	14	11	9
10	56	32.2	30.8	28	18	14	11
15	84	48.3	46.2	42	27	21	17
20	108	62.1	59.4	54	34	27	22
25	136	78.2	74.8	68	44	34	27
30	160	92	88	80	51	40	32
40	208	120	114	104	66	52	41
50	260	150	143	130	83	65	52
60	-	177	169	154	103	77	62
75	-	221	211	192	128	96	77
100	-	285	273	248	165	124	99
125	-	359	343	312	208	156	125
150	-	414	396	360	240	180	144
200	-	552	528	480	320	240	192
250	-	-	-	604	403	302	242
300	-	-	-	722	482	361	289

Note: 1 hp = 0.7457 kW.

Asynchronous-motor starting parameters

The main parameters of direct on-line starting of three-phase asynchronous motors (90 % of all applications) are listed below.

■ I_r: rated current

This is the current drawn by the motor at full rated load (e.g. approximately 100 A rms for 55 kW at 400 V).

■ I_d: starting current

This is the current drawn by the motor during starting, on average 7.2 I_n for a duration t_d of 5 to 30 seconds depending on the application (e.g. 720 A rms for 10 seconds). These values determine the trip class and any additional "long-start" protection devices that may be needed.

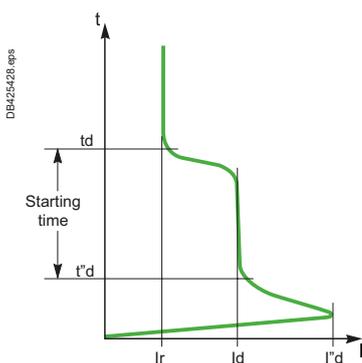
■ I''_d: peak starting current

This is the subtransient current during the first two half-waves when the system is energised, on the average 14 I_n for 10 to 15 ms (e.g. 1840 A peak).

The protection settings must effectively protect the motor, notably via a suitable thermal-relay trip class, but let the peak starting current through.

Standardised values in kW

Rated operational power kW	Standardised values in kW currents I _e (A) for:			
	230 V A	400 V A	500 V A	690 V A
0.06	0.35	0.32	0.16	0.12
0.09	0.52	0.3	0.24	0.17
0.12	0.7	0.44	0.32	0.23
0.18	1	0.6	0.48	0.35
0.25	1.5	0.85	0.68	0.49
0.37	1.9	1.1	0.88	0.64
0.55	2.6	1.5	1.2	0.87
0.75	3.3	1.9	1.5	1.1
1.1	4.7	2.7	2.2	1.6
1.5	6.3	3.6	2.9	2.1
2.2	8.5	4.9	3.9	2.8
3	11.3	6.5	5.2	3.8
4	15	8.5	6.8	4.9
5.5	20	11.5	9.2	6.7
7.5	27	15.5	12.4	8.9
11	38	22	17.6	12.8
15	51	29	23	17
18.5	61	35	28	21
22	72	41	33	24
30	96	55	44	32
37	115	66	53	39
45	140	80	64	47
55	169	97	78	57
75	230	132	106	77
90	278	160	128	93
110	340	195	156	113
132	400	230	184	134
160	487	280	224	162
200	609	350	280	203
250	748	430	344	250
315	940	540	432	313



Typical motor-starting curve

ComPact NSX motor protection

Motor-feeder solutions

ComPact NSX motor circuit breakers are designed for motor-feeder solutions using:

- three devices, including an MA or 1.3 M magnetic-only trip unit
- two devices including a 2 M or 6 E-M electronic trip units.

They are designed for use with contactors in the AC-3 utilisation category (80 % of all cases) and they ensure type 2 coordination with the contactor.

For the AC-4 utilisation category, the difficult conditions generally make it necessary to oversize the protection circuit breaker with respect to the AC-3 category.

ComPact NSX motor-protection range

ComPact NSX trip units can be used to create motor-feeder solutions comprising two or three devices. The protection devices are designed for continuous duty at 65 °C.

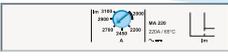
Three-device solutions

- 1 NSX circuit breaker with an MA or MicroLogic 1.3 M trip unit.
- 1 contactor.
- 1 thermal relay.

Two-device solutions

- 1 ComPact NSX circuit breaker
 - with a MicroLogic 2.2 M or 2.3 M electronic trip unit
 - with a MicroLogic 6 E-M electronic trip unit. This version offers additional protection and Power Meter functions.
- 1 contactor.

B

Type of motor protection	3 devices		2 devices	
ComPact NSX circuit breaker	NSX100/160/250	NSX400/630	NSX100 to 630	
Trip unit Type Technology	Contactor + thermal relay MA Magnetic 	MicroLogic 1.3 M Electronic 	Contactor MicroLogic 2 M Electronic 	MicroLogic 6 E-M Electronic 
Thermal relay Separate	●	●		
Built-in, class	5		●	●
	10		●	●
	20		●	●
	30			●
Protection functions of ComPact NSX circuit breaker				
Short-circuits	●	●	●	●
Overloads			●	●
Insulation faults Ground-fault				●
Special motor functions Phase unbalance			●	●
Locked rotor				●
Under-load				●
Long start				●
Built-in Power Meter functions				
I, U, energy				●
Operating assistance				
Counters (cycles, trips, alarms, hours)				●
Contact-wear indicator				●
Load profile and thermal image				●

> Discover our specific Motor Protection Offer:

TeSys GV

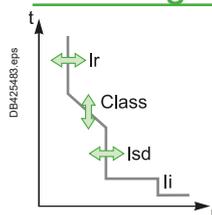


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ComPact NSX motor protection

MicroLogic 2.2 / 2.3 M electronic trip units

MicroLogic 2.2 / 2.3 M



Ratings (A)	In at 65 °C [1]	25	50	100	150	220	320	500
Circuit breaker	ComPact NSX100	●	●	●	-	-	-	-
	ComPact NSX160	●	●	●	●	-	-	-
	ComPact NSX250	●	●	●	●	●	-	-
	ComPact NSX400	-	-	-	-	-	●	-
	ComPact NSX630	-	-	-	-	-	●	●

L Overloads (or thermal protection): Long-time protection and trip class

Pick-up (A) tripping between 1.05 and 1.20 Ir	Ir	value depending on trip unit rating (In) and setting on dial									
In = 25 A	Ir =	12	14	16	18	20	22	23	24	25	
In = 50 A	Ir =	25	30	32	36	40	42	45	47	50	
In = 100 A	Ir =	50	60	70	75	80	85	90	95	100	
In = 150 A	Ir =	70	80	90	100	110	120	130	140	150	
In = 220 A	Ir =	100	120	140	155	170	185	200	210	220	
In = 320 A	Ir =	160	180	200	220	240	260	280	300	320	
In = 500 A	Ir =	250	280	320	350	380	400	440	470	500	
Trip class as per IEC 60947-4-1		5	10	20							

Time delay (s) depending on selected trip class	tr	1.5 x Ir	6 x Ir	7.2 x Ir	120	240	480	for warm motor			
					6.5	13.5	26	for cold motor			
					5	10	20	for cold motor			

Thermal memory: 20 minutes before and after tripping
 Cooling fan: non-adjustable - motor self-cooled

S₀ Short-circuits: Short-time protection with fixed time delay

Pick-up (A) accuracy ±15 %	Isd = Ir x ...	5	6	7	8	9	10	11	12	13	
Time delay (ms)	tsd	non-adjustable									
	Non-tripping time	10									
	Maximum break time	60									

I Short-circuits: Non-adjustable instantaneous protection

Pick-up (A) accuracy ±15 %	Ii non-adjustable	425	750	1500	2250	3300	4800	6500	
Time delay (ms)	Non-tripping time	0							
	Maximum break time	30							

Phase unbalance or phase loss

Pick-up (A) accuracy ±20 %	Iunbal in % average current [2]	> 30 %
Time delay (s)	non-adjustable	0.7 s during starting 4 s during normal operation

[1] Motor standards require operation at 65 °C. Circuit-breaker ratings are derated to take this requirement into account (see pages E-14 to E-17).

[2] The unbalance measurement takes into account the most unbalanced phase with respect to the average current.



ComPact NSX motor protection

MicroLogic 6 E-M electronic trip units

B

Display of type of fault

On a fault trip, the type of fault (Ir, Isd, li, Ig, lunbal, ljam), the phase concerned and the interrupted current are displayed.

Indications

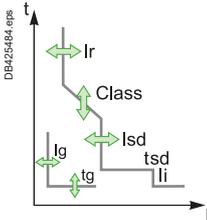
Front indications

- Green "Ready" LED: flashes slowly when the circuit breaker is ready to trip in the event of a fault.
- Red alarm LED for motor operation: goes ON when the thermal image of the rotor or stator is greater than 95% of the permissible temperature rise.

Remote indications via SDTAM or SDx module

See description on [page C-31](#) for SDTAM and for SDx.

MicroLogic 6.2 / 6.3 E-M



Ratings (A)	In at 65 °C ^[1]	25	50	80	150	220	320	500
Circuit breaker	ComPact NSX100	●	●	●	-	-	-	-
	ComPact NSX160	●	●	●	●	-	-	-
	ComPact NSX250	●	●	●	●	●	-	-
	ComPact NSX400	-	-	-	-	-	●	-
	ComPact NSX630	-	-	-	-	-	●	●

L Overloads: Long-time protection

Pick-up (A)	Ir	Dial setting	Value depending on trip-unit rating (In) and setting on dial								
Tripping between 1.05 and 1.20 Ir		In = 25 A Ir =	12	14	16	18	20	22	23	24	25
		In = 50 A Ir =	25	30	32	36	40	42	45	47	50
		In = 80 A Ir =	35	42	47	52	57	60	65	72	80
		In = 150 A Ir =	70	80	90	100	110	120	130	140	150
		In = 220 A Ir =	100	120	140	155	170	185	200	210	220
		In = 320 A Ir =	160	180	200	220	240	260	280	300	320
		In = 500 A Ir =	250	280	320	350	380	400	440	470	500
		Keypad setting	Fine adjustments in 1 A steps below maximum value defined by dial setting								
Trip class as per IEC 60947-4-1			5	10	20	30					
Time delay (s) depending on selected trip class	tr	1.5 x Ir	120	240	480	720	for warm motor				
		6 x Ir	6.5	13.5	26	38	for cold motor				
		7.2 x Ir	5	10	20	30	for cold motor				
Thermal memory			20 minutes before and after tripping								
Cooling fan			Settings for self-cooled or fan-cooled motors								

S_n Short-circuits: Short-time protection with fixed time delay

Pick-up (A) accuracy ±15 %	Isd = Ir x ...	5	6	7	8	9	10	11	12	13
Time delay	tsd	non-adjustable								
	Non-tripping time	10 ms								
	Maximum break time	60 ms								

I Short-circuits: Non-adjustable instantaneous protection

Pick-up (A) accuracy ±15 %	li non-adjustable	425	750	1200	2250	3300	4800	6500	
	Non-tripping time	0 ms							
	Maximum break time	30 ms							

G Ground faults

Pick-up (A) accuracy ±10 %	Ig = In x ...	Dial setting								
	In = 25 A Ig =	0.6	0.6	0.6	0.6	0.7	0.8	0.9	1	Off
	In = 50 A Ig =	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1	Off
	In > 50 A Ig =	0.2	0.3	0.4	0.5	0.6	0.7	0.8	1	Off
		fine adjustments in 0.05 x In steps								
Time delay (ms)	tg	0	0.1	0.2	0.3	0.4				
	Non-tripping time	20	80	140	230	350				
	Maximum break time	80	140	200	320	500				

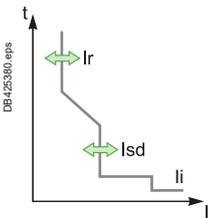
[1] Motor standards require operation at 65 °C. Circuit-breaker ratings are derated to take this requirement into account (see pages E-14 to E-17).
 [2] The unbalance measurement takes into account the most unbalanced phase with respect to the average current.

ComPact NSX special applications

Protection of public distribution systems with MicroLogic 2-AB

B

MicroLogic 2.2 / 2.3 AB



Ratings (A)	In at 40 °C ⁽¹⁾	100	160	240	400
Circuit breaker	ComPact NSX100	●	-	-	-
	ComPact NSX160	●	●	-	-
	ComPact NSX250	●	●	●	-
	ComPact NSX400	-	-	-	●
	ComPact NSX630	-	-	-	●

L Long-time protection

Pick-up (A) tripping between 1.05 and 1.20 Ir	Ir	value depending on trip unit rating (In) and setting on dial							
	In = 100 A	Ir = 40	40	50	60	70	80	90	100
	In = 160 A	Ir = 90	100	110	120	130	140	150	160
	In = 240 A	Ir = 140	150	160	170	180	200	220	240
	In = 400 A	Ir = 260	280	300	320	340	360	380	400
Time delay (s)	tr	non-adjustable							
	1.5 Ir	15							
	6 Ir	0.5							
	7.2 Ir	0.35							
Thermal memory		20 minutes before and after tripping							

S_n Short-time protection with fixed time delay

Pick-up (A) accuracy ±10 %	I_{sd} = Ir x ...	1.5	2	3	4	5	6	7	8	10
Time delay (ms)	tsd	non-adjustable: 20								
	Non-tripping time	20								
	Maximum break time	80								

I Non-adjustable instantaneous protection

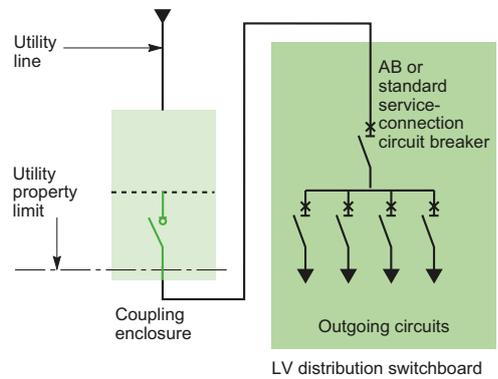
Pick-up (A) accuracy ±15 %	I_i non-adjustable	1500	1600	2880	4800
Time delay (ms)	Non-tripping time	10			
	Maximum break time	50			

[1] If the trip units are used in high-temperature environments, the MicroLogic setting must take into account the thermal limitations of the circuit breaker. See the temperature derating table.

Technical details

Advantages of the AB trip unit

- Controls the power drawn with respect to contractual power levels. If the contractual level is overrun, the circuit breaker opens and the consumer is not billed excess costs.
- If a short-circuit occurs, the circuit breaker opens and the upstream HRC fuses on utility lines are not affected. No expensive utility servicing is billed to the consumer.



Consumer connection diagram.

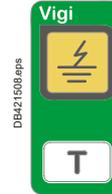
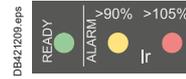
ComPact NSX special applications

ComPact NSX MicroLogic Vigi 4-AB trip unit with embedded earth leakage protection

Indications

Front indications

- Green "Ready" LED: flashes slowly when the circuit breaker is ready to trip in case of a fault.
- Orange overload pre-alarm LED: steady ON when $I > 90\%$ I_r .
- Red overload LED: steady ON when $I > 105\%$ I_r .
- Yellow Screen: indicates an earth leakage fault (reset when the device is operated OFF/ON).

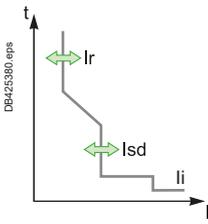


Alarming and fault differentiation

- An overload trip signal can be remotely available by installing an SDx relay module inside the circuit breaker.
- An earth leakage pre-alarm can be remotely available by installing an SDx module, only on the ComPact NSX MicroLogic Vigi 4-AB. This module receives the signal from the MicroLogic electronic trip unit via an optical link and makes it available on the terminal block. The signal is reset when the breaker is operated.

B

MicroLogic Vigi 4-AB (earth leakage "Trip" version only)



Ratings (A)	In at 40 °C [1]	100	160	240	400
Circuit breaker	ComPact NSX100	●			
	ComPact NSX160	●	●		
	ComPact NSX250	●	●	●	
	ComPact NSX400				●
	ComPact NSX630				●

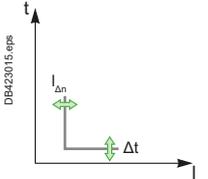
L Long-time protection																																													
Pick-up (A)	I_r value depending on the rating (I_n) and the dial setting (9 positions)																																												
tripping between 1.05 and 1.20 I_r	<table border="1"> <tr> <td>$I_n = 100$ A</td> <td>$I_o =$</td> <td>40</td> <td>40</td> <td>40</td> <td>50</td> <td>60</td> <td>70</td> <td>80</td> <td>90</td> <td>100</td> </tr> <tr> <td>$I_n = 160$ A</td> <td>$I_o =$</td> <td>90</td> <td>90</td> <td>100</td> <td>110</td> <td>120</td> <td>130</td> <td>140</td> <td>150</td> <td>160</td> </tr> <tr> <td>$I_n = 240$ A</td> <td>$I_o =$</td> <td>140</td> <td>140</td> <td>150</td> <td>160</td> <td>170</td> <td>180</td> <td>200</td> <td>220</td> <td>240</td> </tr> <tr> <td>$I_n = 400$ A</td> <td>$I_o =$</td> <td>260</td> <td>260</td> <td>280</td> <td>300</td> <td>320</td> <td>340</td> <td>360</td> <td>380</td> <td>400</td> </tr> </table>	$I_n = 100$ A	$I_o =$	40	40	40	50	60	70	80	90	100	$I_n = 160$ A	$I_o =$	90	90	100	110	120	130	140	150	160	$I_n = 240$ A	$I_o =$	140	140	150	160	170	180	200	220	240	$I_n = 400$ A	$I_o =$	260	260	280	300	320	340	360	380	400
$I_n = 100$ A	$I_o =$	40	40	40	50	60	70	80	90	100																																			
$I_n = 160$ A	$I_o =$	90	90	100	110	120	130	140	150	160																																			
$I_n = 240$ A	$I_o =$	140	140	150	160	170	180	200	220	240																																			
$I_n = 400$ A	$I_o =$	260	260	280	300	320	340	360	380	400																																			

Time delay (s)	t_r	non-adjustable
accuracy 0 to -20%	at	1.5 x I_r $t_r = 15$ s
	at	6 x I_r $t_r = 0.5$ s
	at	7.2 x I_r $t_r = 0.35$ s

Thermal memory 20 minutes before and after tripping

S ₀ Short-time protection with fixed time delay										
Pick-up (A)	$I_{sd} = I_r \times \dots$	1.5	2	3	4	5	6	7	8	10
accuracy ±10 %										
Time delay (ms)	t_{sd}	non-adjustable								
	Non-tripping time	20								
	Maximum break time	80								

I Instantaneous protection					
Pick-up (A)	I_i non-adjustable	1500	1600	2880	4800
accuracy ±15 %	Non-tripping time	10 ms			
	Maximum break time	50 ms			



R Earth leakage protection																																													
Sensitivity (A)	Type A, adjustable (9 positions)																																												
	<table border="1"> <tr> <td>$I_n = 100$ A</td> <td>$I_{\Delta n} =$</td> <td>0.03</td> <td>0.03</td> <td>0.1</td> <td>0.3</td> <td>0.5</td> <td>1</td> <td>3</td> <td>5</td> <td>OFF</td> </tr> <tr> <td>$I_n = 160$ A</td> <td>$I_{\Delta n} =$</td> <td>0.03</td> <td>0.03</td> <td>0.1</td> <td>0.3</td> <td>0.5</td> <td>1</td> <td>3</td> <td>5</td> <td>OFF</td> </tr> <tr> <td>$I_n = 240$ A</td> <td>$I_{\Delta n} =$</td> <td>0.03</td> <td>0.03</td> <td>0.1</td> <td>0.3</td> <td>0.5</td> <td>1</td> <td>3</td> <td>5</td> <td>OFF</td> </tr> <tr> <td>$I_n = 400$ A</td> <td>$I_{\Delta n} =$</td> <td>0.3</td> <td>0.3</td> <td>0.5</td> <td>1</td> <td>3</td> <td>5</td> <td>10</td> <td>10</td> <td>OFF</td> </tr> </table>	$I_n = 100$ A	$I_{\Delta n} =$	0.03	0.03	0.1	0.3	0.5	1	3	5	OFF	$I_n = 160$ A	$I_{\Delta n} =$	0.03	0.03	0.1	0.3	0.5	1	3	5	OFF	$I_n = 240$ A	$I_{\Delta n} =$	0.03	0.03	0.1	0.3	0.5	1	3	5	OFF	$I_n = 400$ A	$I_{\Delta n} =$	0.3	0.3	0.5	1	3	5	10	10	OFF
$I_n = 100$ A	$I_{\Delta n} =$	0.03	0.03	0.1	0.3	0.5	1	3	5	OFF																																			
$I_n = 160$ A	$I_{\Delta n} =$	0.03	0.03	0.1	0.3	0.5	1	3	5	OFF																																			
$I_n = 240$ A	$I_{\Delta n} =$	0.03	0.03	0.1	0.3	0.5	1	3	5	OFF																																			
$I_n = 400$ A	$I_{\Delta n} =$	0.3	0.3	0.5	1	3	5	10	10	OFF																																			
Time delay Δt (ms)	Adjustable $\Delta t =$	0	60 [2]	150 [2]	500 [2]	1000 [2]																																							
	Maximum break time (ms)	<40	<140	<300	<800	<1500																																							

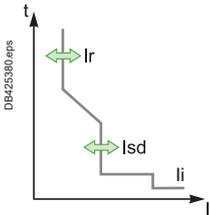
[1] For the use in high temperature environment, take into account the thermal limitation of the breaker.
 [2] The time delay (Δt) is mandatory and designed " $\Delta t = 0$ " when the $I_{\Delta n}$ dial is set on 30mA (0.03). The time delay has no effect when the dial $I_{\Delta n}$ is set to the "OFF" position.

ComPact NSX special applications

Generator protection with MicroLogic 2.2 G

B

MicroLogic 2.2 G



Ratings (A)	In at 40 °C [1]	40	100	160	250
Circuit breaker	ComPact NSX100	●	●	-	-
	ComPact NSX160	●	●	●	-
	ComPact NSX250	●	●	●	●

L Long-time protection

Pick-up (A) tripping between 1.05 and 1.20 Ir	Io	value depending on trip unit rating (In) and setting on dial									
	In = 40 A	Io =	18	18	20	23	25	28	32	36	40
	In = 100 A	Io =	40	45	50	55	63	70	80	90	100
	In = 160 A	Io =	63	70	80	90	100	110	125	150	160
	In = 250 A (NSX250)	Io =	100	110	125	140	150	176	200	225	250

Ir = Io x ... 9 fine-adjustment settings from 0.9 to 1 for each Io value

Time delay (s) accuracy 0 to -20 %	tr	non-adjustable
	1.5 x Ir	15
	6 x Ir	0.5
	7.2 x Ir	0.35

Thermal memory 20 minutes before and after tripping

S₀ Short-time protection with fixed time delay

Pick-up (A) accuracy ±10 %	I_{sd} = Ir x ...	1.5	2	2.5	3	4	5	6	7	8	9
Time delay (ms)	tsd	non-adjustable									
	Non-tripping time	140									
	Maximum break time	200									

I Non-adjustable instantaneous protection

Pick-up (A) accuracy ±15 %	Ii non-adjustable	600	1500	2400	3000
	Non-tripping time	15 ms			
	Maximum break time	50 ms			

[1] If the trip units are used in high-temperature environments, the MicroLogic setting must take into account the thermal limitations of the circuit breaker. See the temperature derating table.

ComPact NSX special applications

Protection of industrial control panels

Compliance with North American industrial control equipment standards

ComPact NSX devices have received UL508 / CSA 22-2 no. 14 approval for industrial control equipment of the "Manual Motor Controller", "Across the Line Starter", "General Use" and "Disconnecting Means" types.

Type NA devices are switch-disconnectors that must always be protected upstream.

UL508 approval

Circuit breakers	Trip units	Approvals
ComPact NSX100 to 630 F/N/H	TMD, MicroLogic 2, 5 and 6	General Use Motor Disconnecting Means
	NA, MA, MicroLogic 1.3 M, 2.2 M, 2.3 M, MicroLogic 6.2 E-M and 6.3 E-M	Manual Motor Controller Across the Line Starter Motor Disconnecting Means

Table of 3-phase motor ratings in hp (1 hp = 0.7457 kW)

V AC ratings		115	230	460	575
TMD MicroLogic 2, 5 and 6	NA, MA MicroLogic 1.3 M, 2.2 M, 2.3 M MicroLogic 6.2 E-M and 6.3 E-M				
25	25	3	7.5	15	20
50	50	7.5	15	30	40
100	100	15	30	75	100
160	150	25	50	100	150
250	220	40	75	150	200
400	320	-	125	250	300
550	500	-	150	350	500

The deratings indicated on pages E-14 to E-17 apply to TMD, MicroLogic 2, 5 and 6 trip units, rated at 40 °C.

ComPact NSX special applications

16 Hz 2/3 network protection - MicroLogic 5 A-Z trip unit

ComPact NSX circuit breakers may be used on 16 Hz 2/3 systems with special thermal-magnetic and electronic (MicroLogic 5 A-Z) trip units.

B

16 Hz 2/3 networks

Single-phase distribution networks with a frequency of 16 Hz 2/3 are used for railroad applications in certain European countries.

Breaking capacity for 16 Hz 2/3 at 250/500 V

ComPact NSX circuit breakers of the 3P 2D or the 3P 3D type protect 16 Hz 2/3 networks at 250 V or 500 V.

They can be equipped with either:

- a TM-D thermal-magnetic trip unit for ComPact NSX100 to 250
- or an electronic MicroLogic 5.2 A-Z trip unit for ComPact NSX100 to 250 or a 5.3 A-Z for ComPact NSX400/630.

The possible breaking-capacity performance levels are B, F, N and H as indicated below.

Breaking capacity I_{cu}

Operating voltage	Performance	TMD and MicroLogic 5 A-Z trip units			
		B	F	N	H
250 V / 500 V	I _{cu} (kA)	25	36	50	70

Protection

TM-D thermal-magnetic trip units

The 16 Hz 2/3 frequency does not modify the thermal settings with respect to those at 50 Hz (see page B-6). The magnetic pick-ups are modified as shown below.

Magnetic protection for ComPact NSX 100/160/250 at 50 Hz and at 16 Hz 2/3

Rating (A) I _n at 40 °C	16	25	32	40	50	63	80	100	125	160	200	250
Pick-up (A) I _m accur. ±20%	Fixed											Adjustable
NSX100 50Hz	190	300	400	500	500	500	640	800				
16Hz 2/3	170	270	360	450	450	450	580	720				
NSX160/250 50Hz	190	300	400	500	500	500	640	800	1250	1250		
16 Hz 2/3	170	270	360	450	450	450	580	720	1100	1100	4.5 to 9 I _n	

MicroLogic 5 A-Z trip units

MicroLogic 5.2 A-Z and 5.3 A-Z are dedicated to 16 Hz 2/3 networks.

They use a suitable sampling frequency. The protection settings are identical to those of MicroLogic 5 A (see page B-12). They also offer a current-measurement function for this specific frequency.

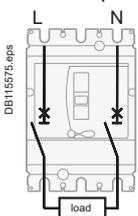
Trip-unit selection

Rating	16	63	100	160	250	400	630
ComPact							
NSX100	TM-D						
NSX160		TM-D					
NSX250				TM-D			
NSX100 to 250			MicroLogic 5.2 A-Z				
NSX400/630						MicroLogic 5.3 A-Z	

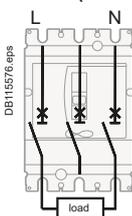
Wiring for NSX100 to 630 A

Phase and isolated neutral interrupted- 250 / 500 V

B and F (3P 2D version)

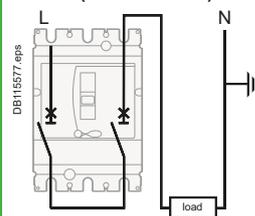


N and H (3P 3D version)

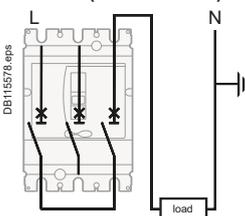


2 poles in series - Earthed neutral - 250 / 500 V

B and F (3P 2D version)



N and H (3P 3D version)



Remark. For an operating voltage > 250 V, the installation must be designed to eliminate all risk of double earth faults.

ComCompact NSX accessories and auxiliaries

Remote tripping

MX or MN voltage releases are used to trip the circuit breaker. They serve primarily for remote, emergency-off commands. It is advised to test the system every six months.

MN undervoltage release

The MN release opens the circuit breaker when its supply voltage drops to a value below 35 % of its rated voltage U_n .

Undervoltage tripping, combined with an emergency-off button, provides fail-safe tripping. The MN release is continuously supplied, i.e. if supply is interrupted:

- either voluntarily, by the emergency-off button,
- or accidentally, through loss of power or faulty wiring, the release provokes opening of the circuit breaker.

Opening conditions

Circuit-breaker tripping by an MN release meets the requirements of standard IEC 60947-2.

- Automatic opening of the circuit breaker is ensured when the continuous voltage supply to the release $U \leq 0.35 \times U_n$.
- If the supply voltage is between 0.35 and 0.7 U_n , opening is possible, but not guaranteed. Above 0.7 U_n , opening does not take place.

Closing conditions

If there is no supply to the MN release, it is impossible to close the circuit breaker, either manually or electrically. Closing is ensured when the voltage supply to the release $U \geq 0.85 \times U_n$. Below this threshold, closing is not guaranteed.

Characteristics

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

Time-delay unit for an MN release

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

Power supply	Corresponding MN release
Unit with fixed delay 200 ms	
48 V AC	48 V DC
220 / 240 V AC	250 V DC
Unit with adjustable delay ≥ 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

MX shunt release

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

Opening conditions

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

Characteristics

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

Circuit breaker control by MN or MX

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

MN or MX tripping takes priority over manual closing.

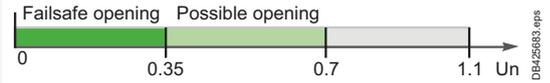
In the presence of a standing trip order, closing of the contacts, even temporary, is not possible.

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



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MX or MN voltage release.



Opening conditions of the MN release.

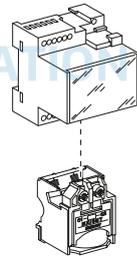


Closing conditions of the MN release.



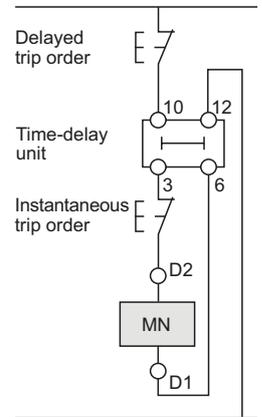
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MN voltage release.



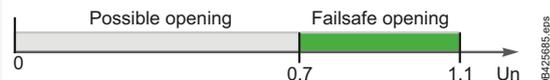
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MN release with a time-delay unit.



DB115607.eps

Wiring diagram for emergency-off function with MN + time-delay unit.



Opening conditions of the MX release.

DB425685.eps

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

ComPact NSX accessories and auxiliaries

Additional measurement module: PowerLogic PowerTag NSX

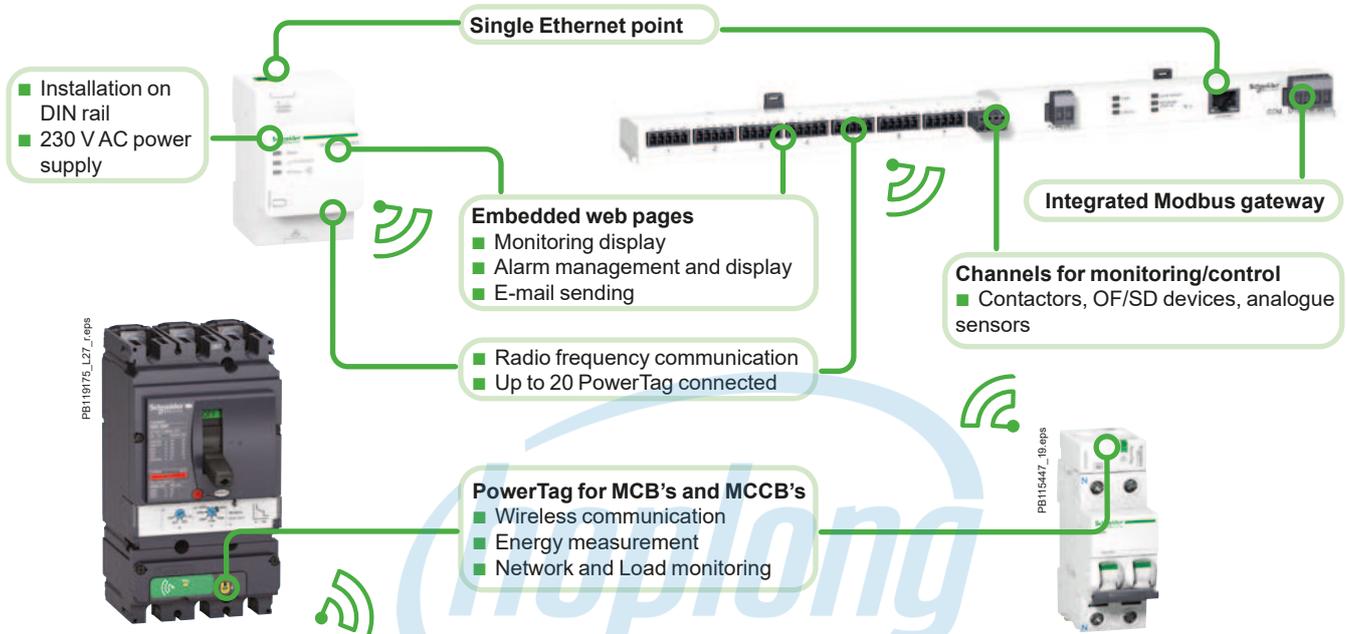
▶ How to monitor PowerTag NSX sensors in FDM128 local display

Metering and monitoring

PowerTag Link / PowerTag Link HD (Ethernet)

Metering, monitoring and control

Smartlink SI B (Ethernet)



Technical characteristics

Main characteristics			
Rated voltage	Un	Phase-to-neutral Phase-to-phase	230 VAC ± 20 % 400 VAC ± 20 %
Frequency			50/60 Hz
Operating current	In		250 A / 630 A
Maximum operating current			1.2 x In
Saturation current			2 x In
Maximum consumption			3.7 VA
Starting current	Ist		160 mA / 400 mA
Base current	Ib		40 A / 100 A
Additional characteristics			
Operating temperature			-25 °C to +70 °C
Storage temperature			-50 °C to +85 °C
Overtoltage category		As per IEC 61010-1	Cat. IV
Measuring category		As per IEC 61010-2-30	Cat. III
Pollution degree			3
Altitude			Up to 2000 m without derating [1]
Degree of protection device			IP20 IK07
Radio-frequency communication			
ISM band 2.4 GHz			2.4 GHz to 2.4835 GHz
Channels		As per IEEE 802.15.4	11 to 26
Isotropic Radiated Power		Equivalent (EIRP)	0 dBm
Maximum transmission time			< 5 ms
Channel occupancy		For 1 device	messages sent every 5 seconds
Characteristics of measuring functions			
Function	Symbol	Performance as per IEC 61557-12	Measuring range (250 A / 630 A)
Active power (per phase, total)	P	Class 1 Measuring range (250 A / 630 A)	88 W to 416 kW / 221 W to 1048 kW
Total reactive power	Q _A	2	88 VAR to 416 kVAR / 221 VAR to 1048 kVAR
Total apparent power	S _A	2	88 VA to 416 kVA / 221 VA to 1048 kVA
Active Energy (per phase, total, partial)	E _a	1	0 to 281.10 ⁹ kWh
Total reactive Energy	E _{rA}	2	0 to 281.10 ⁹ kVARh
Frequency	f	1	45 to 55 Hz
Phase current	I	1	8 to 250 A / 20 to 630 A
Voltages (Line to Line)	U	0.5	Un ± 20 %
Power factor (arithmetic)	PF _A	1	From 0.5 inductive to 0.8 capacitive
			-1 to 1

[1] Above 2000 m, please consult us.

ComPact NSXm

Operating and installation conditions

Derating and correction factor depending of temperature

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

Choosing the right rating depending of the temperature:

Over the reference temperature of 40 °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

Temperature derating for NSXm with MicroLogic Vigi 4.1 at In

Temperature °C

40	45	50	55	60	65	70
----	----	----	----	----	----	----

Rating (A) In

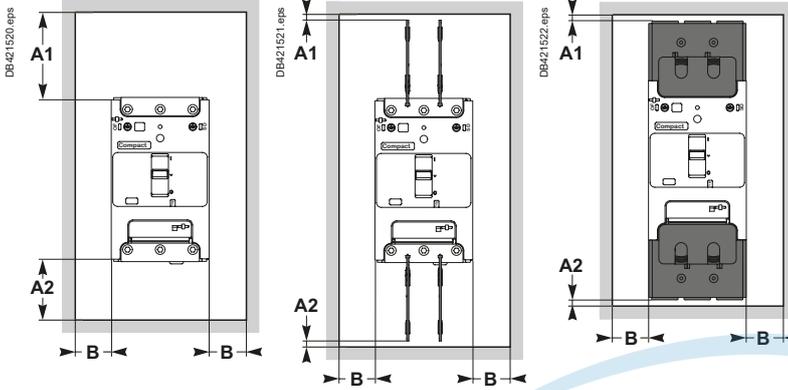
25	25	25	25	25	25	25
50	50	50	50	50	50	50
100	100	100	100	100	100	100
160	155	150	145	140	135	130

ComPact NSXm

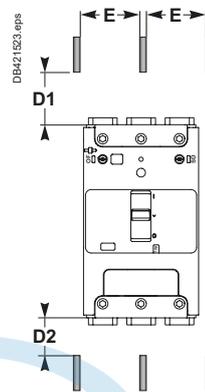
Safety clearances and minimum distances

IEC standard

Minimum safety clearances



Minimum safety clearances to bare busbars



Operating voltage	Clearance (mm)						
	Between devices	Between device and sheet metal		Bare sheet metal			
		Painted sheet metal	Bare sheet metal	A1	A2	B	
$U \leq 690\text{ V}$		A1	A2	B	A1	A2	B
for devices equipped with: no accessories	0	30 mm	5 mm	0	40 mm	5 mm	5 mm
interphase barriers [1]	0	0	0	0	0	0	5 mm
long terminal shields	0	0	0	0	0	0	5 mm

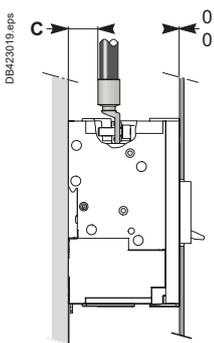
Operating voltage	Clearances to live bare busbars [2]			
	Spacing $E \leq 60\text{ mm}$		Spacing $E > 60\text{ mm}$	
	D1	D2	D1	D2
$U \leq 690\text{ V}$	200 mm	100 mm	120 mm	60 mm

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

[1] 20 mm clearance when using spreaders and 5mm clearance when using crimp lugs between devices is mandatory.

INDUSTRIAL AUTOMATION

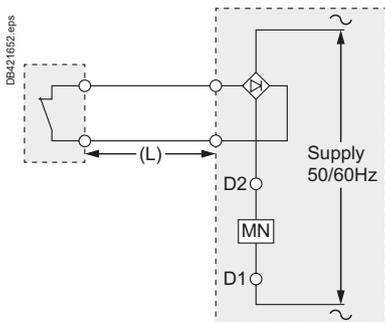
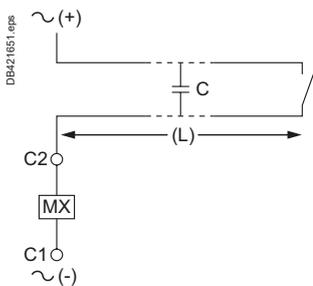
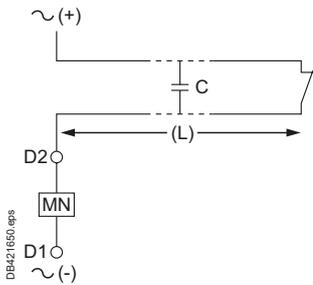
Compression lug safety clearance



An insulating screen or long terminal shield is required if $C < 8\text{ mm}$.

ComPact NSXm

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
110...130 V AC	126 m	913 m
110...130 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, 110...130, 208...240, 277, 380...415, 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	

ComPact NSXm

Power loss / Resistance

ComPact NSXm thermal power loss values are used to calculate total temperature rise in the switchboard in which the circuit breakers are installed.

The values indicated in the tables below are typical values for a device at full rated load and 50/60 Hz.

Power loss per pole (P/pole) in Watts (W)

The value indicated is the power loss at I_n , 50/60 Hz, for a three-pole or four-pole circuit breaker. Measurement and calculation of power loss are carried out in compliance with the recommendations of Annex G of standard IEC 60947-2.

Resistance per pole (R/pole) in milliohms (mΩ)

The value of the resistance per pole is provided as a general indication for a new device.

The value of the contact resistance is determined on the basis of the measured voltage drop, in accordance with the manufacturer's test procedure.

Note: this measurement is not sufficient to determine the quality of the contacts, i.e. the capacity of the circuit breaker to carry its rated current.

Calculation of total power loss

Total power loss at full rated load and 50/60 Hz is equal to power losses per pole multiplied by the number of poles (3 or 4).

ComPact NSXm with TM-D

Rating (A)	R total / pole (mΩ)	P / Pole (W)
16	8.87	2.3
25	4.50	2.8
32	3.10	3.3
40	2.30	3.8
50	1.85	4.6
63	1.44	5.7
80	0.90	5.8
100	0.75	7.5
125	0.59	9.3
160	0.53	13.7

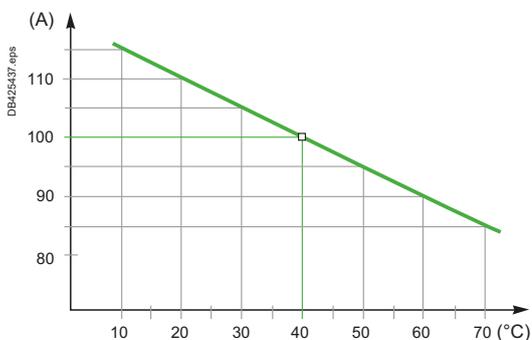
ComPact NSXm with MicroLogic Vigi 4.1

Rating (A)	R total / pole (mΩ)	P / Pole (W)
25	2.44	1.5
50	0.48	1.2
100	0.48	4.8
160	0.48	12.3

ComPact NSX temperature derating

Equipped with thermal-magnetic trip units

When thermal-magnetic trip units are used at ambient temperatures other than 40 °C, the Ir pick-up is modified.



Temperature derating curve for ComPact NSX100.

Derating and correction factor depending of temperature

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

Choosing the right rating depending of the temperature:

Over the reference temperature of 40 °C, the circuit breaker has to be derated following the table below:

Temperature derating for thermal-magnetic (TM-D) NSX at In						
Temperature °C						
40	45	50	55	60	65	70
Rating (A) In						
16	15.6	15.2	14.8	14.5	14	13.8
25	24.5	24	23.5	23	22	21
32	31.3	30.5	30	29.5	29	28.5
40	39	38	37	36	35	34
50	49	48	47	46	45	44
63	61.5	60	58	57	55	54
80	78	76	74	72	70	68
100	97.5	95	92.5	90	87.5	85
125	122	119	116	113	109	106
160	156	152	148	144	140	136
200	195	190	185	180	175	170
250	244	238	231	225	219	213

INDUSTRIAL AUTOMATION

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 pages H-5 to H-7).

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) NSX to determine setting or tripping time at In													
Rating (A) In	Temperature °C												
	10	15	20	25	30	35	40	45	50	55	60	65	70
16	1.15	1.17	1.13	1.13	1.06	1.04	1.00	0.98	0.95	0.93	0.91	0.88	0.86
25	1.15	1.12	1.10	1.08	1.05	1.02	1.00	0.98	0.96	0.94	0.92	0.88	0.84
32	1.15	1.13	1.10	1.07	1.05	1.03	1.00	0.98	0.95	0.94	0.92	0.91	0.89
40	1.15	1.13	1.10	1.08	1.05	1.03	1.00	0.98	0.95	0.93	0.9	0.88	0.85
50	1.15	1.12	1.10	1.08	1.05	1.02	1.00	0.98	0.96	0.94	0.92	0.90	0.88
63	1.14	1.13	1.10	1.08	1.05	1.03	1.00	0.98	0.95	0.92	0.90	0.87	0.86
80	1.15	1.13	1.10	1.08	1.05	1.03	1.00	0.98	0.95	0.93	0.90	0.88	0.85
100	1.15	1.13	1.10	1.08	1.05	1.03	1.00	0.98	0.95	0.93	0.90	0.88	0.85
125	1.15	1.128	1.10	1.07	1.05	1.02	1.00	0.98	0.95	0.93	0.90	0.87	0.85
160	1.15	1.125	1.10	1.08	1.05	1.03	1.00	0.98	0.95	0.93	0.90	0.88	0.85
200	1.15	1.125	1.10	1.08	1.05	1.03	1.00	0.98	0.95	0.93	0.90	0.88	0.85
250	1.15	1.124	1.11	1.08	1.05	1.02	1.00	1.63	0.95	0.92	0.90	0.88	0.85

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

ComPact NSX temperature derating

Equipped with electronic trip units

Changes in temperature do not affect measurements by electronic trip units.

- The built-in CT sensors with Rogowski toroids measure the current.
- The control electronics compare the value of the current to the settings defined for 40 °C.

Because temperature has no effect on the toroid measurements, the tripping thresholds do not need to be modified.

However, the temperature rise caused by the flow of current and the ambient temperature increase the temperature of the device. To avoid reaching the thermal withstand level of the equipment, it is necessary to limit the current flowing through the device, i.e. the maximum Ir setting as a function of the temperature.

ComPact NSX100/160/250

The table below indicates the maximum long-time (LT) protection setting Ir (A) depending on the ambient temperature.

Type of device	Rating (A)	Temperature (°C)						
		40	45	50	55	60	65	70
NSX100/160								
Fixed, plug-in or withdrawable	100	no derating						
	160	no derating						
NSX250 + MicroLogic 2.2/5.2/6.2								
Fixed	250	250	250	250	245	237	230	225
Plug-in or withdr.	250	250	245	237	230	225	220	215
NSX250 + MicroLogic Vigi 4.2/7.2								
Fixed	250	250	250	245	237	230	225	218
Plug-in or withdr.	250	225	220	215	210	205	198	190

ComPact NSX400 and 630

The table below indicates the maximum long-time (LT) protection setting Ir (A) depending on the ambient temperature.

Type of device	Rating (A)	Temperature (°C)						
		40	45	50	55	60	65	70
NSX400 + MicroLogic 2.3/5.3/6.3								
Fixed	400	400	400	400	390	380	370	360
Plug-in/withdr.	400	400	390	380	370	360	350	340
NSX400 + MicroLogic Vigi 4.3/7.3								
Fixed	400	400	400	390	380	370	360	350
Plug-in/withdr.	400	400	390	380	370	360	350	340
NSX630 + MicroLogic 2.3/5.3/6.3								
Fixed	630	630	615	600	585	570	550	535
Plug-in/withdr.	630	570	550	535	520	505	490	475
NSX630 + MicroLogic Vigi 4.3/7.3								
Fixed	630	570	555	540	530	515	500	485
Plug-in/withdr.	630	480	470	457	445	435	420	405

Example. A fixed ComPact NSX400 equipped with a MicroLogic can have a maximum Ir setting of:

- 400 A up to 50 °C
- 380 A up to 60 °C.

ComPact NSX temperature derating

Equipped with electronic trip units

Additional derating coefficient for an add-on module

For **fixed** or **plug-in / withdrawable** circuit breakers, the addition of a:

- Vigi add-on
- Vigi add-on Alarm
- ammeter module
- current-transformer module

can modify the derating values. Apply the coefficients shown below.

Derating of a ComPact NSX equipped with a MicroLogic trip unit

Type of device	Circuit breaker	MicroLogic type	Vigi add-on or Vigi add-on Alarm	PowerTag NSX	Coupling busbar	Current transformer				
Fixed	NSX100	2.2/5.2/6.2	1	1	1	1				
		4.2/7.2	-		1					
	NSX160	2.2/5.2/6.2	1		1					
		4.2/7.2	-		1					
	NSX250	2.2/5.2/6.2	1		1					
		4.2/7.2	-		0.95					
Plug-in or withdrawable	NSX100	2.2/5.2/6.2	1	-	-					
		4.2/7.2	-		-					
	NSX160	2.2/5.2/6.2	1		-					
		4.2/7.2	-		-					
	NSX250	2.2/5.2/6.2	0.86		-					
		4.2/7.2	-		-					
Fixed	NSX400	2.3/5.3/6.3	0.97	0.97	1	1				
		4.3/7.3	-		0.97					
	NSX630	2.3/5.3/6.3	0.9		0.9		1			
		4.3/7.3	-				0.9			
	Plug-in or withdrawable	NSX400	2.3/5.3/6.3				0.97	1	-	
			4.3/7.3				-		-	
NSX630		2.3/5.3/6.3	0.9	-						
		4.3/7.3	-	-						

Note:

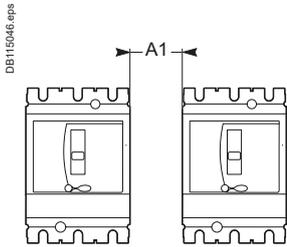
- Coupling busbar is forbidden with Vigi add-on.
- Current transformer is forbidden with Vigi add-on and coupling busbar.
- Coupling busbar is forbidden with withdrawable installation.
- To provide the Visu function, ComPact NSX circuit breakers, with or without a Vigi add-on, are combined with INV switch-disconnectors. Tripping values for the selected combination are indicated in the ComPact INS/INV catalog.

ComCompact NSX installation in switchboards

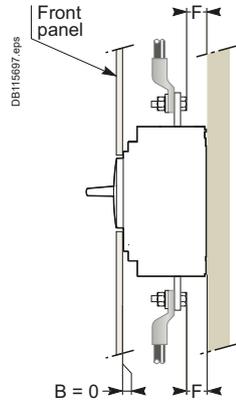
Installation example

Safety clearance

Minimum distance between two adjacent circuit breakers



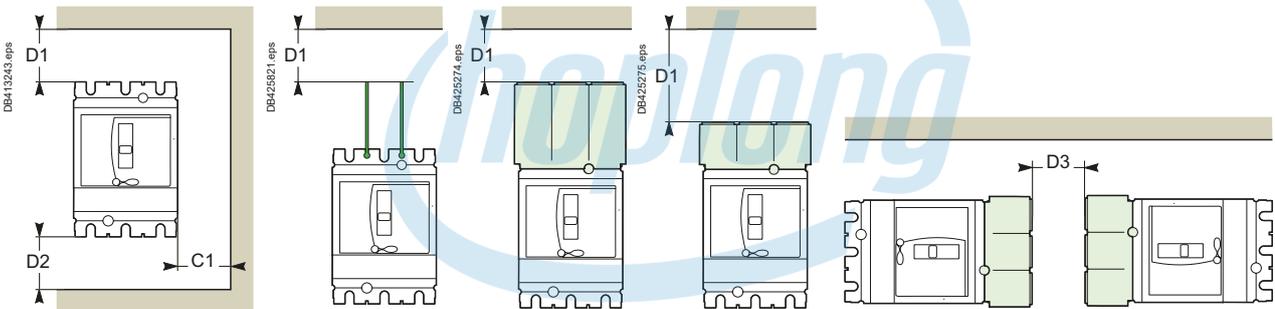
Minimum distance between circuit breaker and front or rear panels



Bare or painted sheetmetal

Note: if $F < 8$ mm: an insulating screen or long terminal shield is mandatory (see page C-23).

Minimum distance between circuit breaker and top, bottom or side panels



Devices without accessories.

Devices with interphase barriers or long or short terminal shields.

Short terminal shield rear connected.

Minimum safety clearances for ComCompact NSX100 to 630

Operating voltage	Clearance (mm)							
	Between devices	Between device and sheetmetal						
		C1	D1	D2	C1	D1	D2	D3
U ≤ 440 V								
for devices equipped with:								
■ no accessories	0	0	30	30	5	40	40	-
■ short terminal shields	0	0	30	30	5	40	40	50
■ interphase barriers	0	0	0	0	5	0	0	-
■ long terminal shields	0	0	0	0	0	0	0	-
440 V < U ≤ 500 V								
for devices equipped with:								
■ short terminal shields	0	0	30	30	10	40	40	50
■ interphase barriers ^[1]	0	0	0	0	20	10	10	-
■ long terminal shields ^[2]	0	0	0	0	10	10	10	-
U > 500 V								
for devices equipped with:								
■ short terminal shields	0	10	50	50	20	100	100	50
■ long terminal shields	0	10	30	30	20	40	40	-

[1] Only for NSX100 to 250.

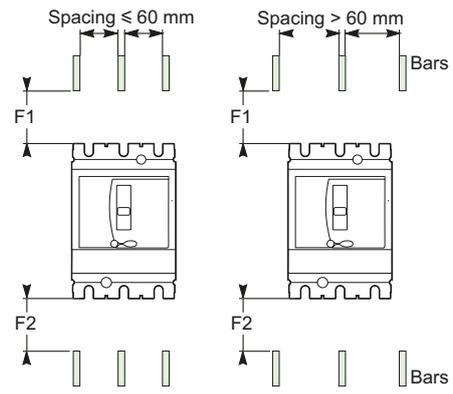
[2] For all cases.

Clearances with respect to live bare busbars

Minimum clearances for ComCompact NSX100 to 630

Operating voltage	Clearances with respect to live bare busbars			
	spacing ≤ 60 mm		spacing > 60 mm	
	F1	F2	F1	F2
U < 440 V	350	350	80	80
440 V ≤ U ≤ 500 V	350	350	120	120
U > 500 V	prohibited: insulating screen required between device and busbars			

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



Live busbars.

ComPact NSX power loss/ resistance

Equipped with thermal-magnetic trip units

ComPact NSX thermal power loss values are used to calculate total temperature rise in the switchboard in which the circuit breakers are installed.

The values indicated in the tables below are typical values for a device at full rated load and 50/60 Hz.

Power loss per pole (P/pole) in Watts (W)

The value indicated is the power loss at I_N , 50/60 Hz, for a three-pole or four-pole circuit breaker. Measurement and calculation of power loss are carried out in compliance with the recommendations of Annex G of standard IEC 60947-2.

Resistance per pole (R/pole) in milliohms (mΩ)

The value of the resistance per pole is provided as a general indication for a new device.

The value of the contact resistance must be determined on the basis of the measured voltage drop, in accordance with the manufacturer's test procedure (ABT instruction document no. 1 - BEE - 02.2 -A).

Note: this measurement is not sufficient to determine the quality of the contacts, i.e. the capacity of the circuit breaker to carry its rated current.

Additional power loss

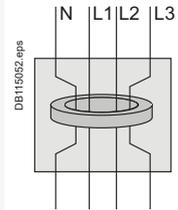
Additional power loss is equal to the sum of the power dissipated by the following:

- **Vigi add-on:** note that the deviation of the N and L3 bars required to pass through the toroid results in higher power losses compared to those of the L1 and L2 bars (diagram opposite). When calculating total power loss, use L1, L2, L3 for a 3P device and N, L1, L2, L3 for a 4P device
- disconnecting contacts (plug-in and withdrawable devices)
- ammeter module
- transformer module.

Calculation of total power loss

Total power loss at full rated load and 50/60 Hz is equal to the sum of the device and additional power losses per pole multiplied by the number of poles (2, 3 or 4).

If a Vigi is installed, it is necessary to differentiate between N and L3 on one hand and L1 and L2 on the other.



With a Vigi add-on, the deviation of the N and L3 bars required to pass through the toroid results in higher power losses compared to those of the L1 and L2 bars.

ComPact NSX100 to 250 equipped with TM-D and TM-G trip units

Type of device	Fixed device			Additional power / pole						
	3/4 poles	Rat. (A)	R/pole	P/pole	Vigi add-on (N, L3)	Vigi add-on (L1, L2)	Plug-in / withdr.	Ammeter module	Transfo. module	PowerTag NSX module
NSX100	16	11.42	2.92	0	0	0	0	0	0	0
	25	6.42	4.01	0	0	0.1	0	0	0	0
	32	3.94	4.03	0.06	0.03	0.15	0.1	0.1	0.1	0
	40	3.42	5.47	0.10	0.05	0.2	0.1	0.1	0.1	0
	50	1.64	4.11	0.15	0.08	0.3	0.1	0.1	0.1	0.1
	63	2.17	8.61	0.3	0.15	0.4	0.1	0.1	0.1	0.1
	80	1.37	8.77	0.4	0.2	0.6	0.1	0.1	0.1	0.1
	100	0.88	8.8	0.7	0.35	1	0.2	0.2	0.2	0.2
NSX160	80	1.26	8.06	0.4	0.2	0.6	0.1	0.1	0.1	0.1
	100	0.77	7.7	0.7	0.35	1	0.2	0.2	0.2	0.2
	125	0.69	10.78	1.1	0.55	1.6	0.3	0.3	0.3	0.3
	160	0.55	13.95	1.8	0.9	2.6	0.5	0.5	0.5	0.5
NSX250	125	0.61	9.45	1.1	0.55	1.6	0.3	0.3	0.3	0.3
	160	0.46	11.78	1.8	0.9	2.6	0.5	0.5	0.5	0.5
	200	0.39	15.4	2.8	1.4	4	0.8	0.8	0.8	0.8
	250	0.3	18.75	4.4	2.2	6.3	1.3	1.3	1.3	1.3

ComPact NSX100 to 630 equipped with MA/1.3-M trip units

Type of device	Fixed device			Additional power / pole						
	3 poles	Rat. (A)	R/pole	P/pole	Vigi add-on (N, L3)	Vigi add-on (L1, L2)	Plug-in / withdr.	Ammeter module	Transfo. module	PowerTag NSX module
NSX100	2.5	148.42	0.93	0	0	0	0	0	0	0
	6.3	99.02	3.93	0	0	0	0	0	0	0
	12.5	4.05	0.63	0	0	0	0	0	0	0
	25	1.66	1.04	0	0	0.1	0	0	0	0
	50	0.67	1.66	0.2	0.1	0.3	0.1	0.1	0.1	0.1
	100	0.52	5.2	0.7	0.35	1	0.2	0.2	0.2	0.2
NSX160	150	0.38	8.55	1.35	0.68	2.6	0.45	0.45	0.45	0.5
NSX250	220	0.3	14.52	2.9	1.45	4.89	0.97	0.97	0.97	1
NSX400	320	0.12	12.29	3.2	1.6	6.14	1.54	1.54	1.54	1.43
NSX630	500	0.1	25	13.99	7	15	3.75	3.75	3.75	3.5

ComPact NSX power loss/ resistance

Equipped with electronic trip units

The values indicated in the table below are typical values for a device at full rated load and 50/60 Hz. The definitions and information are the same as that for circuit breakers equipped with thermal-magnetic trip units.

ComPact NSX100 to 630 equipped with MicroLogic trip units

Type of device 3/4 poles	Rating (A)	Fixed device		Additional power (W)/ pole						
		R/pole (mΩ)	P/Pole (w)	Vigi add-on (N/L3)	Vigi add-on (L1/L2)	Plug-In	Transfo Module	PowerTag NSX module		
NSX + MicroLogic 2.2/5.2/6.2										
NSX100	<40 A	0.84	1.3	0.1	0.06	0.2	0.1	0		
	40 A ≤ 100 A	0.47	4.7	0.7	0.35	1	0.2	0.2		
NSX160	<40 A	0.73	1.2	0.4	0.2	0.6	0.1	0		
	40 A ≤ 160 A	0.36	9.2	1.8	0.9	2.6	0.5	0.5		
NSX250	<40 A	0.27	2.7	1.1	0.55	1.6	0.2	0		
	40 A ≤ 250 A	0.28	17.6	4.4	2.2	6.3	1.3	1.3		
NSX + MicroLogic 2.3/5.3/6.3										
NSX400	<400 A	0.12	19.2	3.2	1.6	9.6	2.4	2.24		
NSX630	<630 A	0.1	39.7	6.5	3.25	19.49	5.95	5.56		
NSX + MicroLogic add-on 4.2/7.2										
		N/L1/L3	L2	N/L1/L3	L2					
NSX100	<100 A	0.58	0.49	5.8	4.9	-	-	1	0.2	
NSX160	<160 A	0.48	0.39	12.3	10.0	-	-	2.6	0.5	
NSX250	<250 A	0.4	0.33	25	20.6	-	-	6.3	1.3	
NSX + MicroLogic add-on 4.3/7.3										
NSX400	<400 A	0.16	0.14	25.6	22.4	-	-	9.6	2.4	2.24
NSX630 ^[1]	<630 A	0.14	0.12	55.6	47.6	-	-	19.49	5.95	5.56

Power loss/resistance values presented above are not contractual.

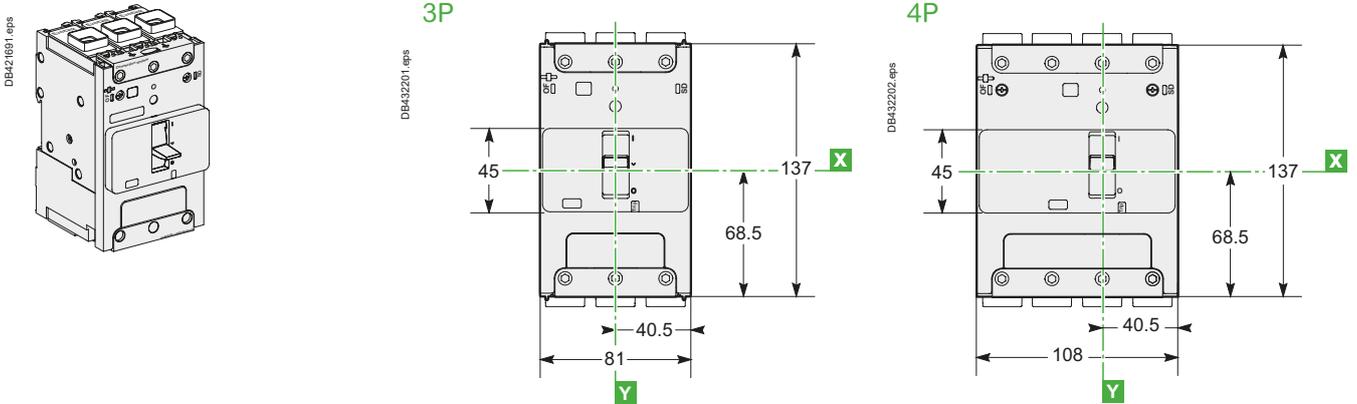
[1] The power loss values for Vigi add-on and withdrawable circuit breakers are given for 570 A.

INDUSTRIAL AUTOMATION

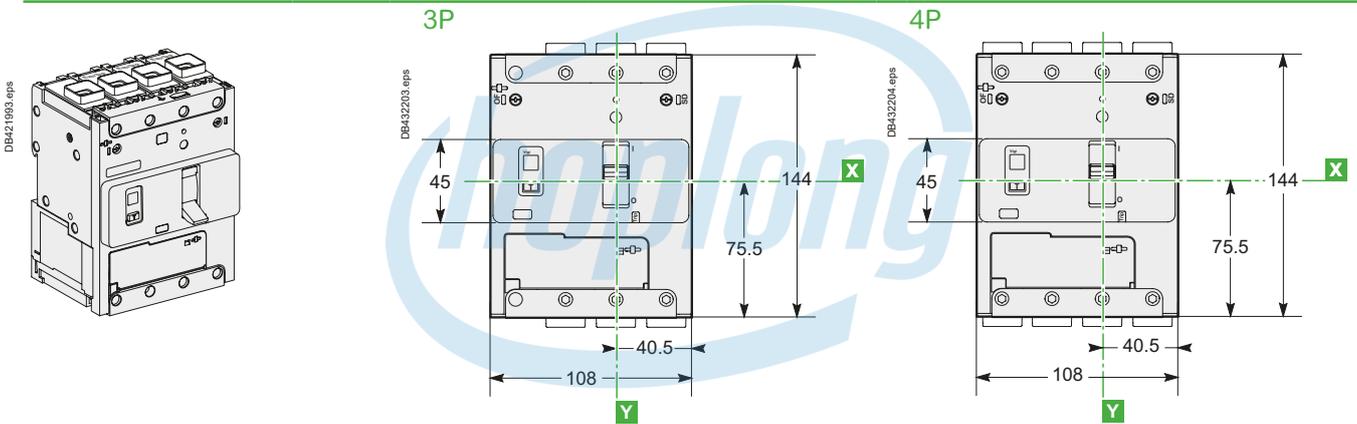
ComPact NSXm dimensions and mounting

Circuit breaker and switch-disconnector

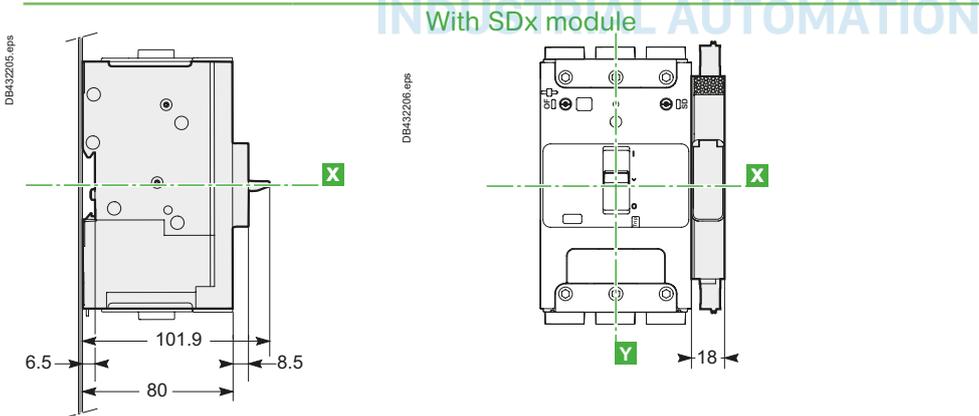
Circuit breaker



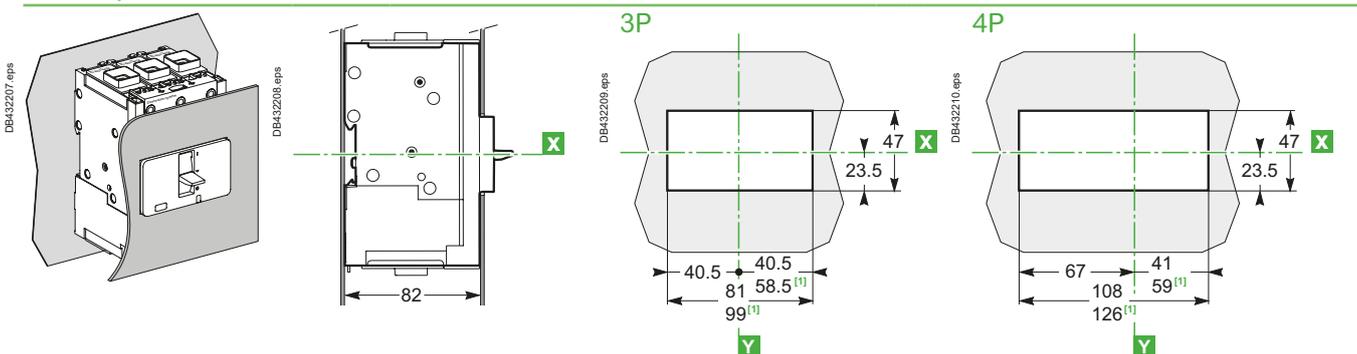
Circuit breaker with MicroLogic Vigi 4.1



Side view



Front-panel cutouts



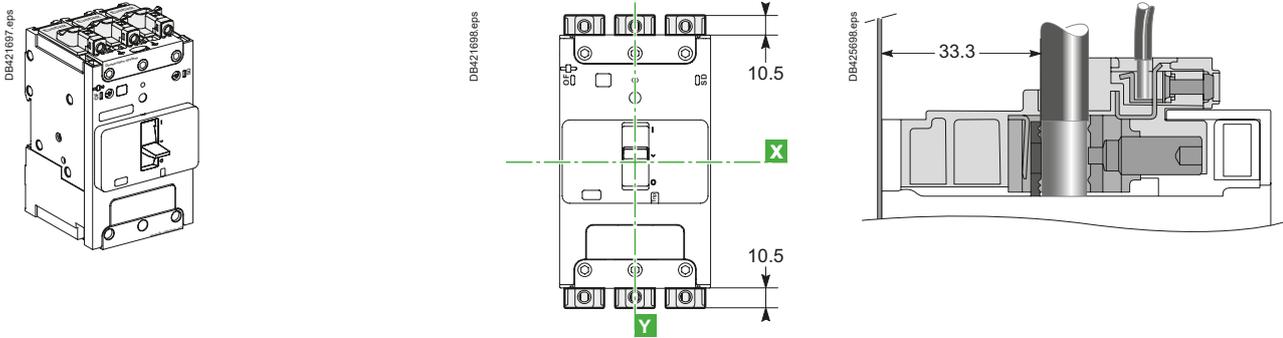
[1] With SDx module.

ComPact NSXm dimensions and mounting

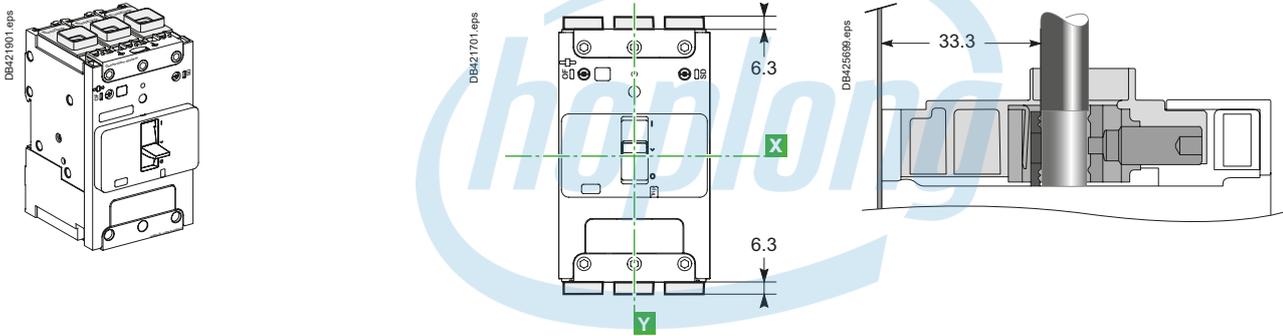
Circuit breaker and switch-disconnector

Connectors

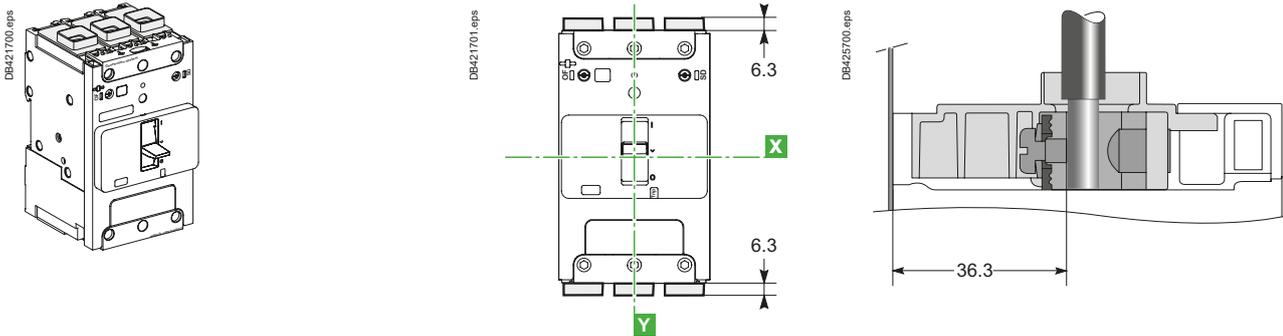
EverLink with control wire terminal connector



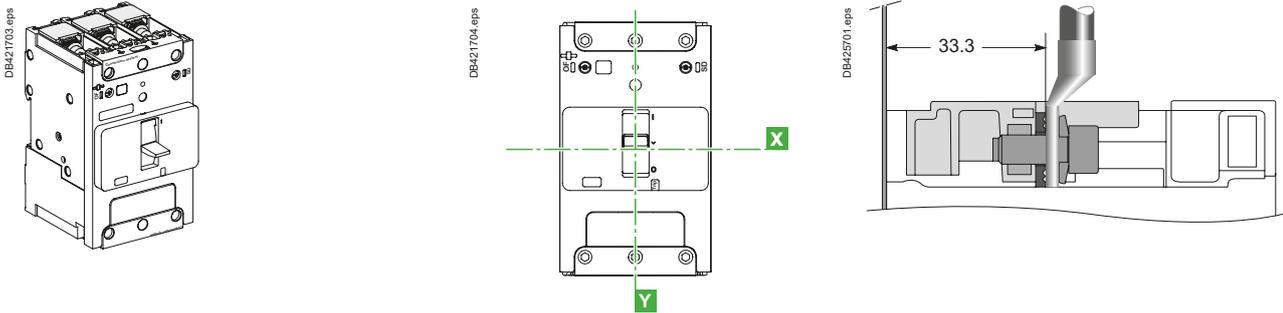
EverLink without control wire terminal connector



Mechanical lug connector



Compression lug / busbar connector



E

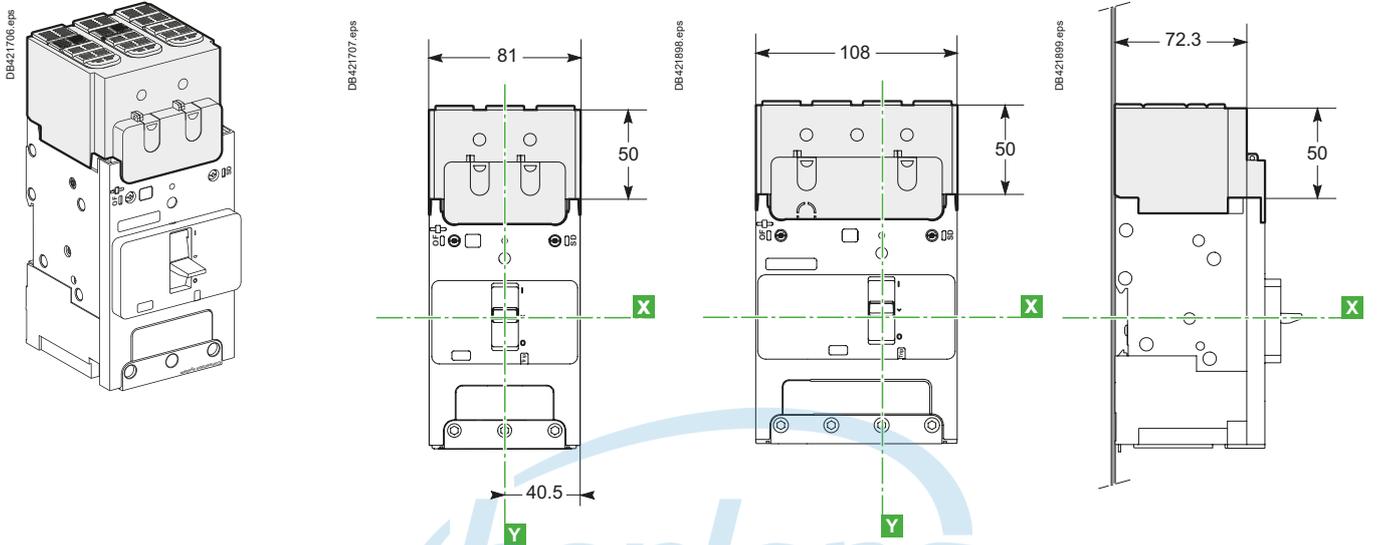
INDUSTRIAL AUTOMATION

ComPact NSXm dimensions and mounting

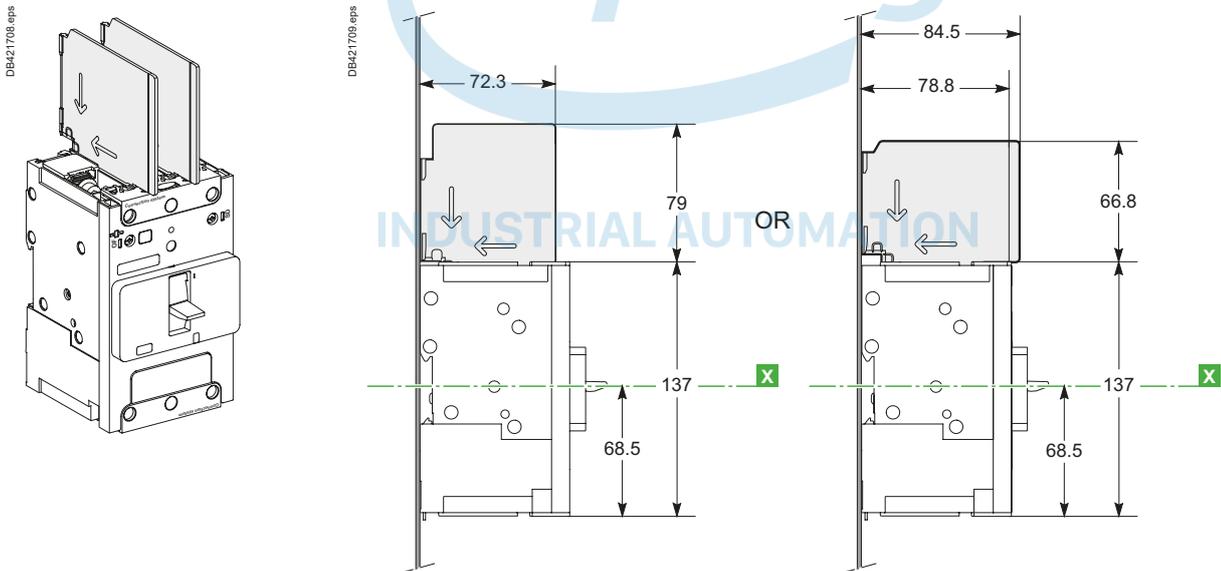
Circuit breaker and switch-disconnector

Insulation of live parts

Long terminal shields



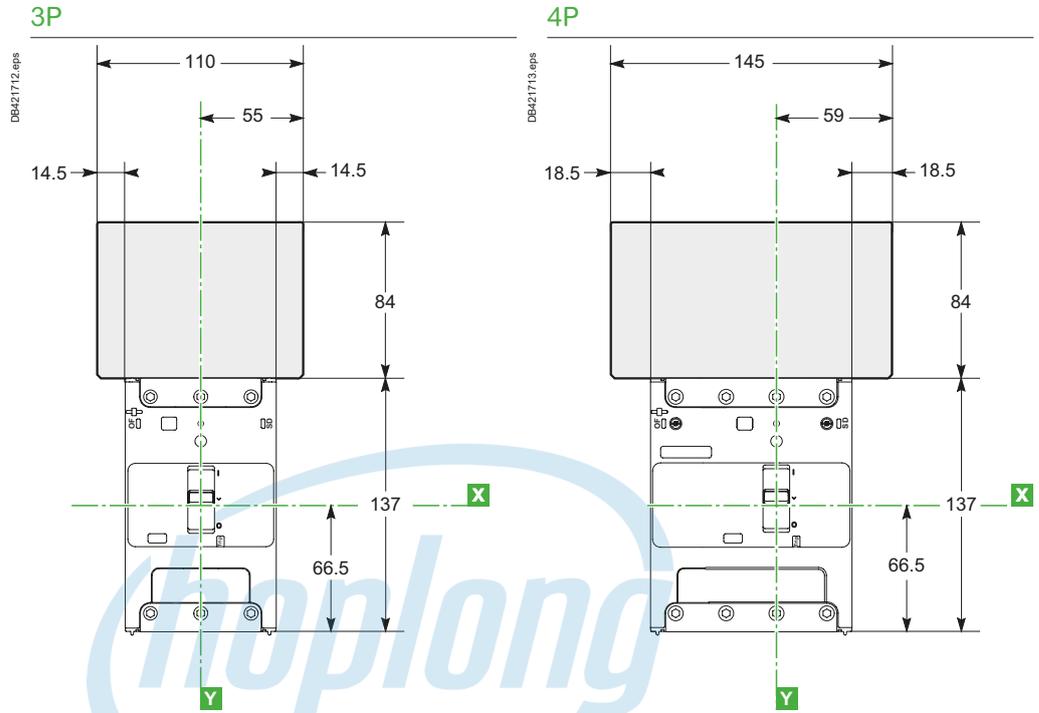
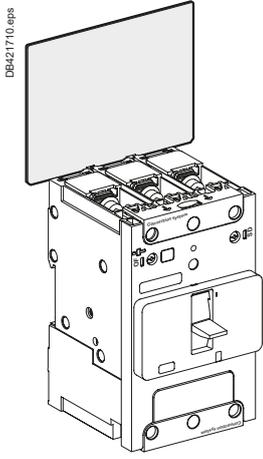
Interphase barriers



ComPact NSXm dimensions and mounting

Circuit breaker and switch-disconnector

Rear insulating screens



INDUSTRIAL AUTOMATION

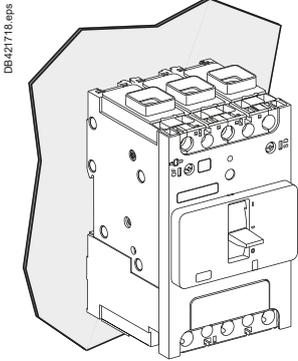
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ComPact NSXm dimensions and mounting

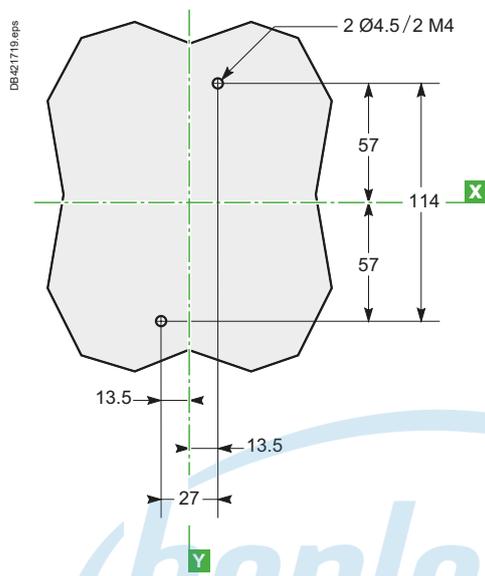
Circuit breaker and switch-disconnector

Mounting on backplate

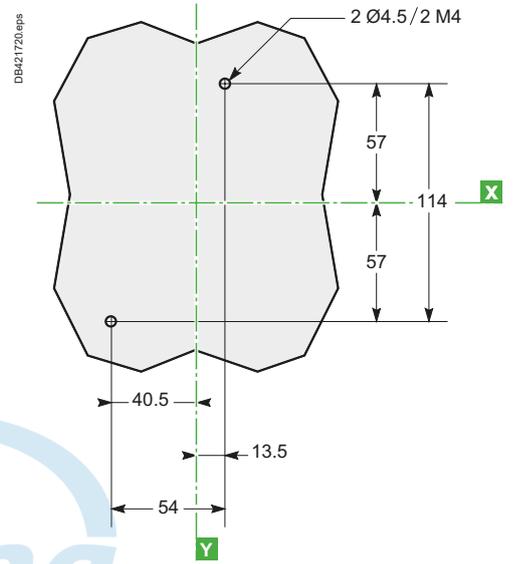
3P/4P



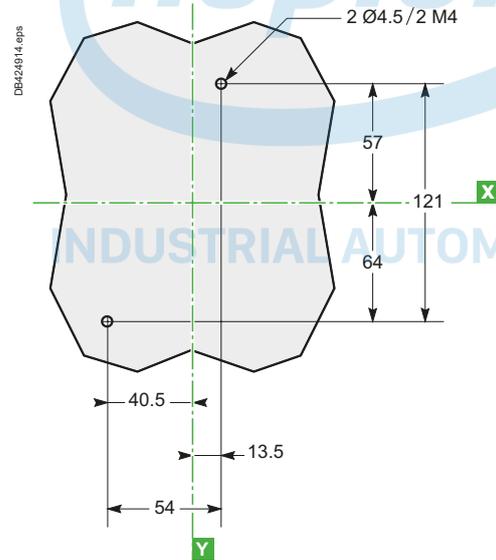
3P



4P

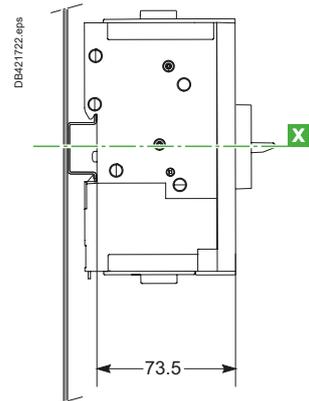
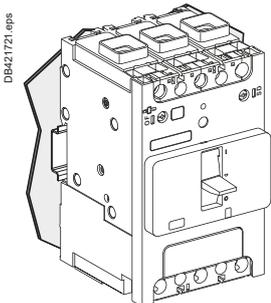


3P/4P Circuit breaker with MicroLogic Vigi 4.1



Mounting on DIN rail

3P

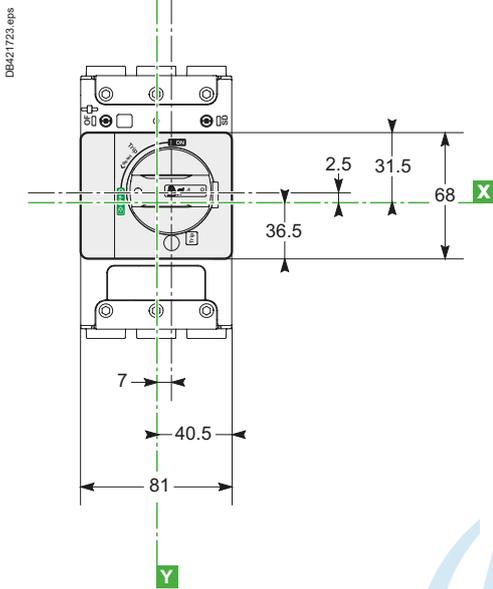


ComPact NSXm dimensions and mounting

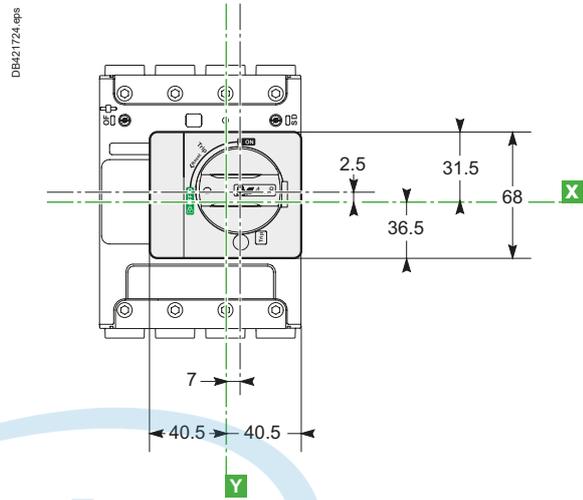
Circuit breaker and switch-disconnector

Direct rotary handle

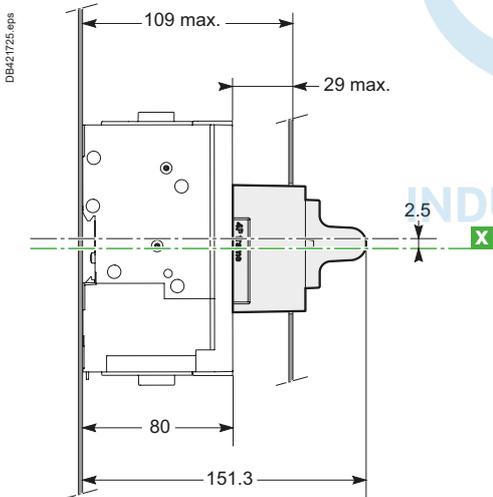
3P



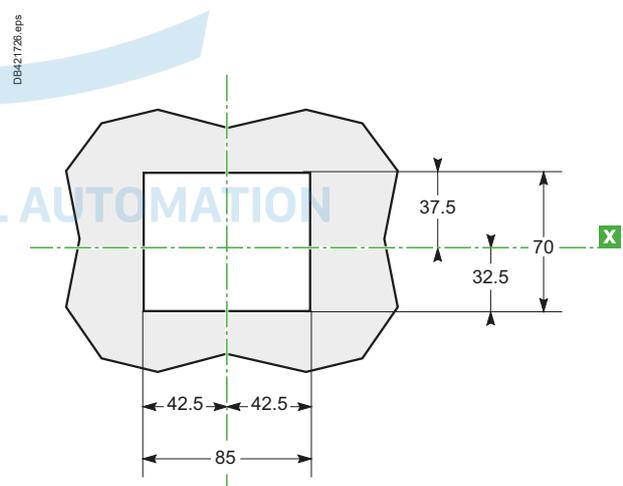
4P



Side view



Door cutout for 3P/4P



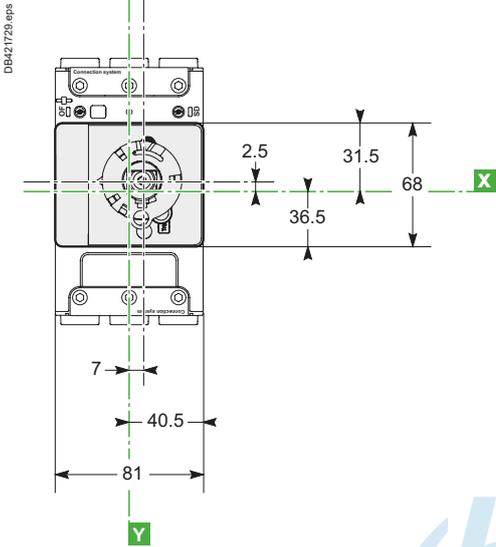
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ComPact NSXm dimensions and mounting

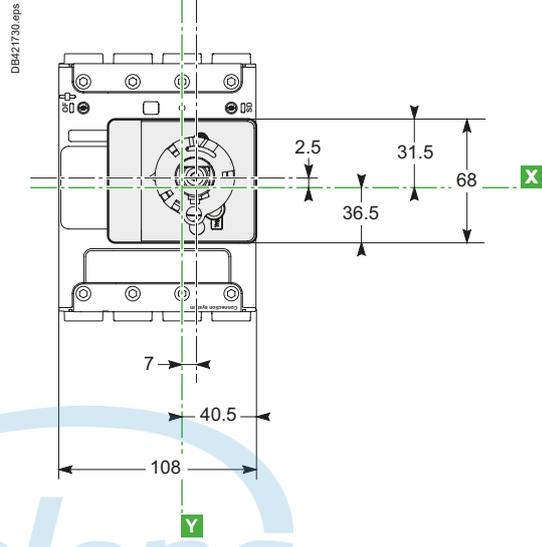
Circuit breaker and switch-disconnector

Extended rotary handle

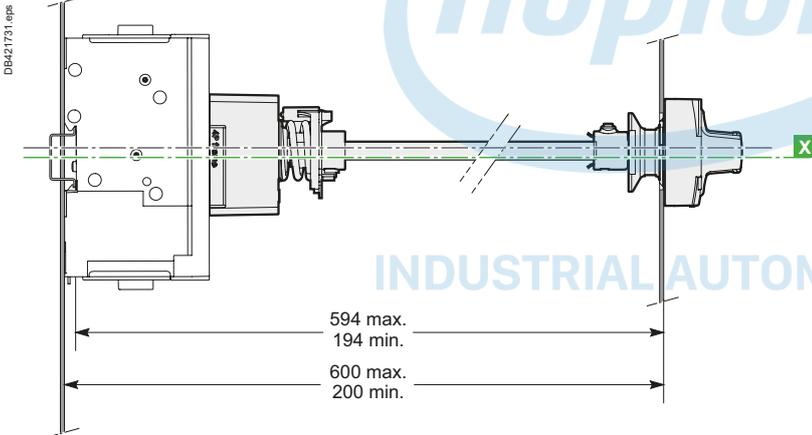
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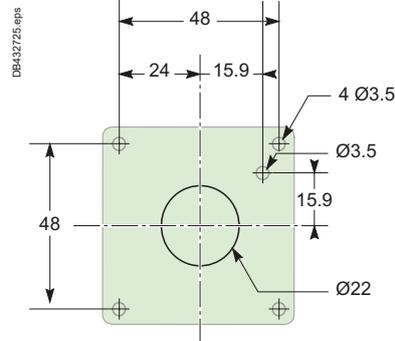
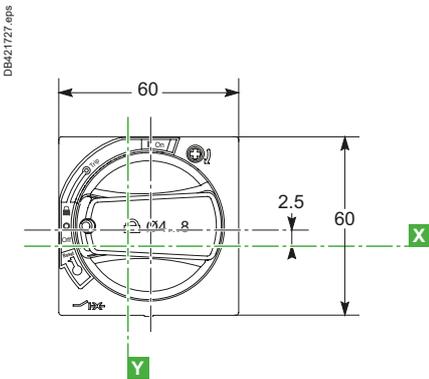
4P



3P/4P



Dimensions and front-panel cutout

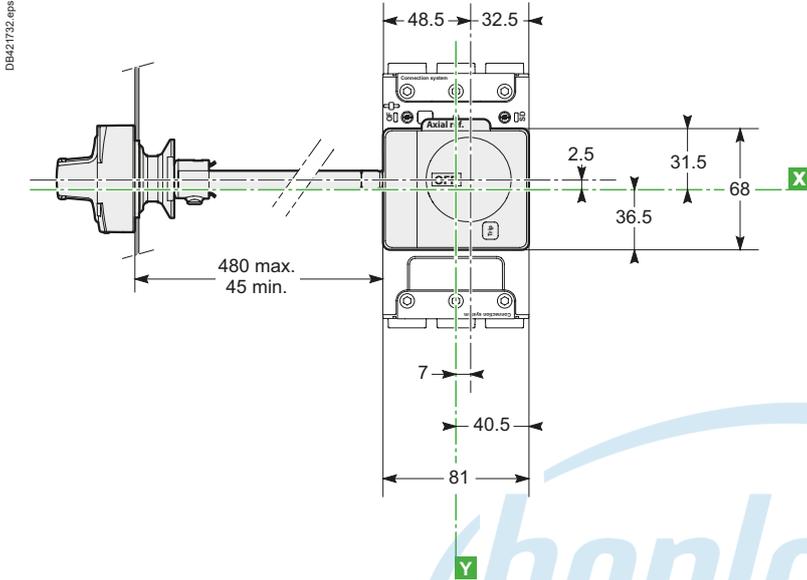


ComPact NSXm dimensions and mounting

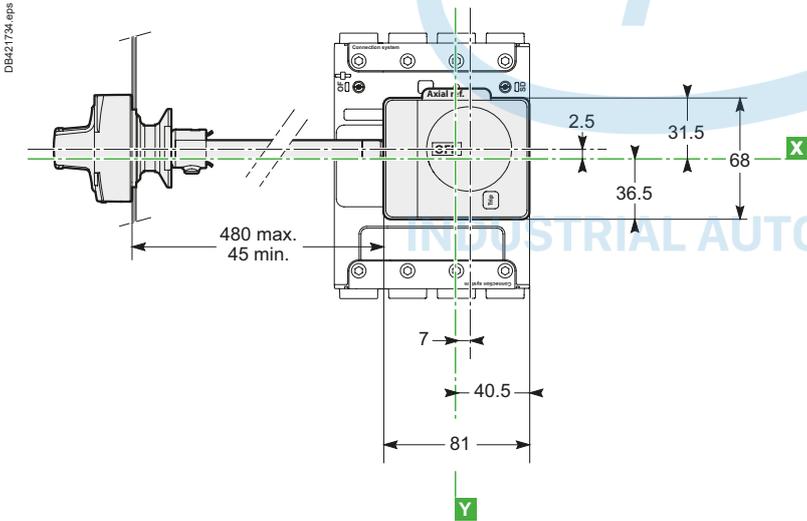
Circuit breaker and switch-disconnector

Side rotary handle

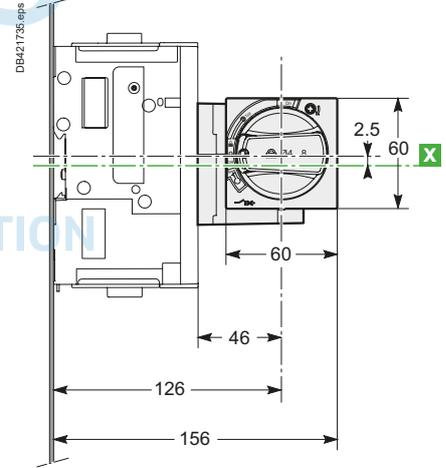
3P - Extended



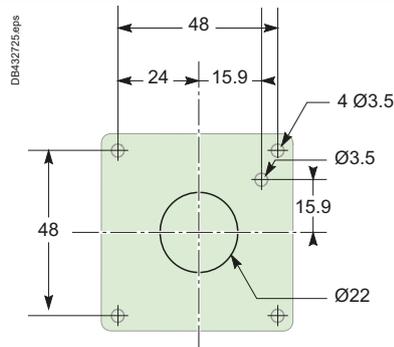
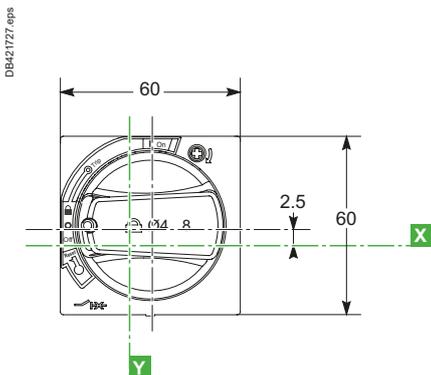
4P - Extended



4P - Direct



Dimensions side rotary handle cutout



ComPact NSXm dimensions and mounting

Circuit breaker and switch-disconnector

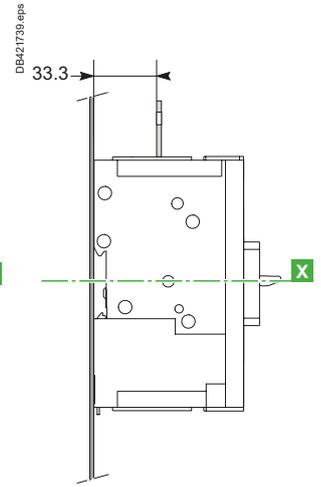
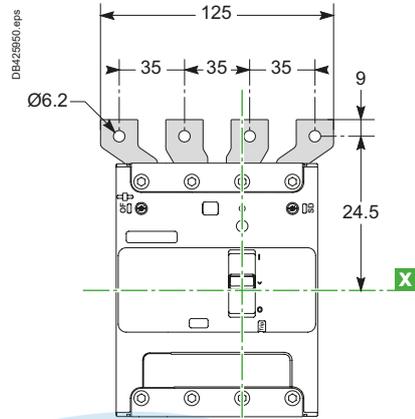
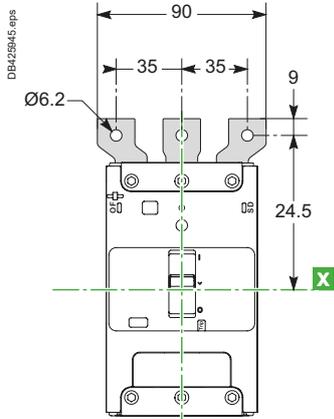
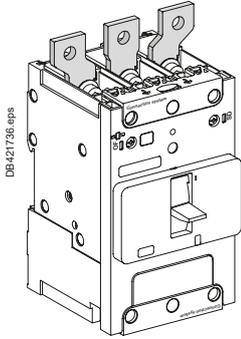
Connection with accessories

Spreaders

3P

4P

Side view



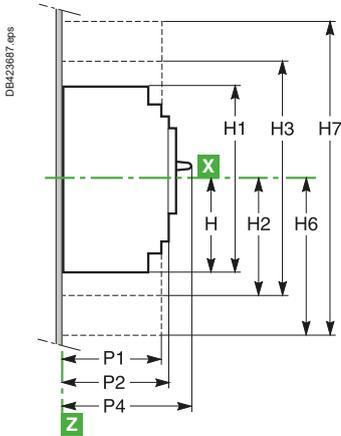
INDUSTRIAL AUTOMATION



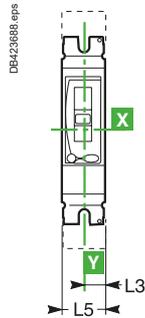
ComPact NSX dimensions and mounting

ComPact NSX100 to NSX250 fixed version, 1P-2P

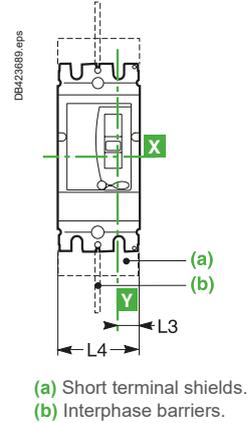
Dimensions



1 pole



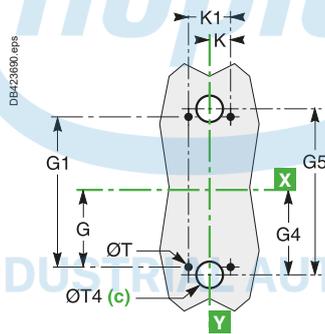
2 poles



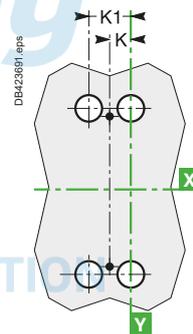
Mounting

On backplate

1 pole

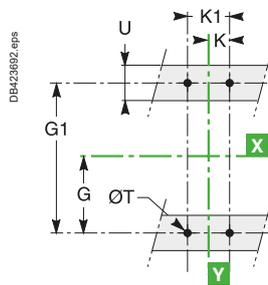


2 poles

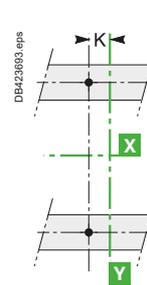


On rails

1 pole



2 poles

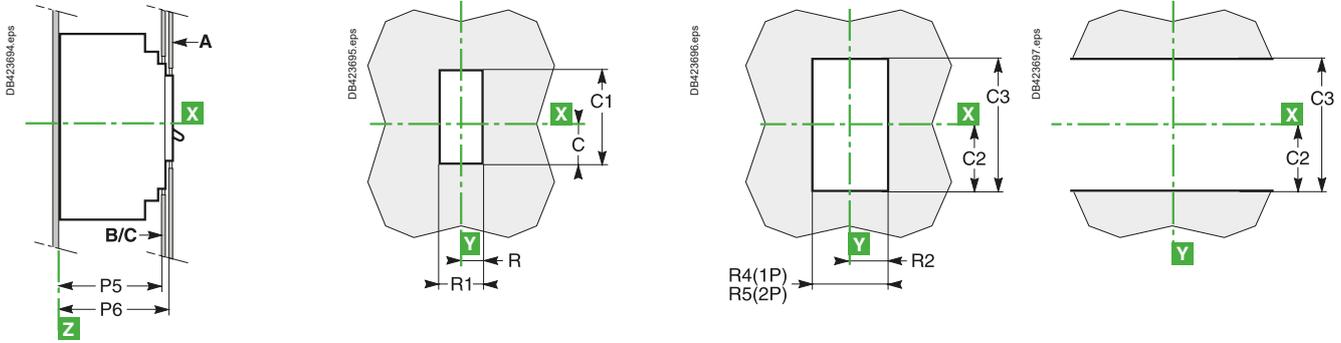


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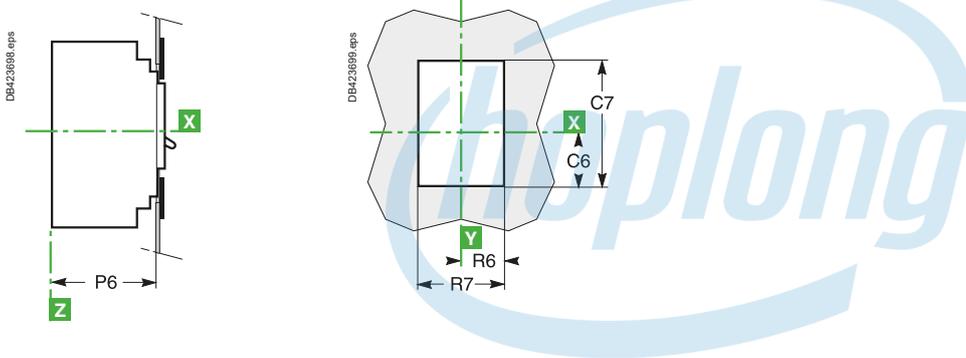
ComPact NSX dimensions and mounting
ComPact NSX100 to NSX250 fixed version, 1P-2P

Front-panel cutout

On backplate



With escutcheon

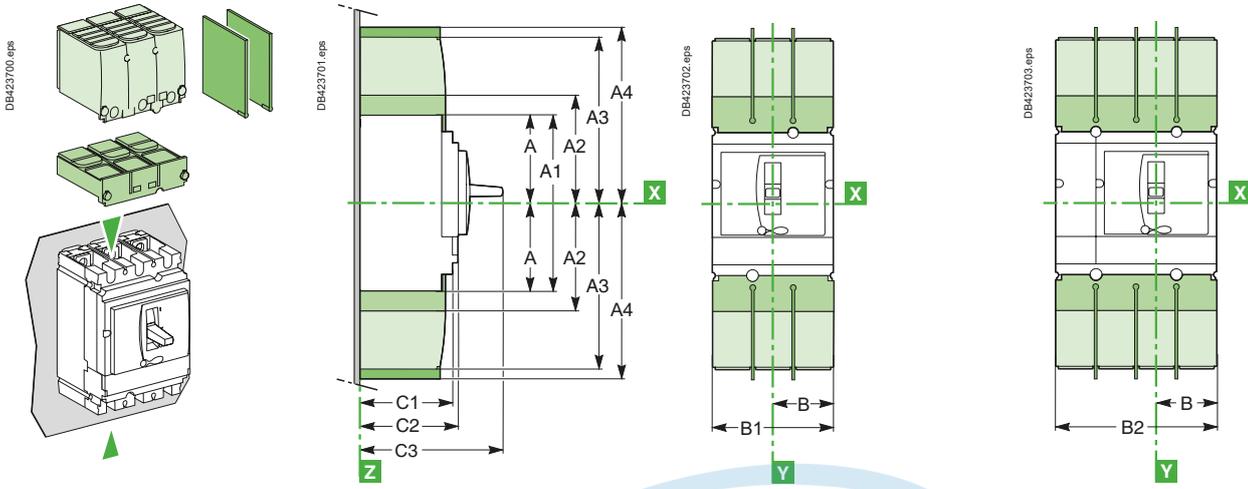


Dimensions (mm)											
Type	C	C1	C2	C3	C6	C7	G	G1	G4	G5	H
NSX100/250	29	76	54	108	43	104	62.5	125	70	140	80.5
Type	H1	H2	H3	H4	H6	H7	K	K1	L3	L4	L5
NSX100/250	161	94	188	160.5	178.5	357	17.5	35	17.5	70	35
Type	P1	P2	P4	P5	P6	R	R1	R2	R4	R5	R6
NSX100/250	81	86	111	83	88	14.5	29	19	38	73	29
Type	R7	ØT	ØT4	U							
NSX100/250	58	6	22	≤ 32							

ComPact NSX dimensions and mounting

ComPact NSX100 to 630 fixed version

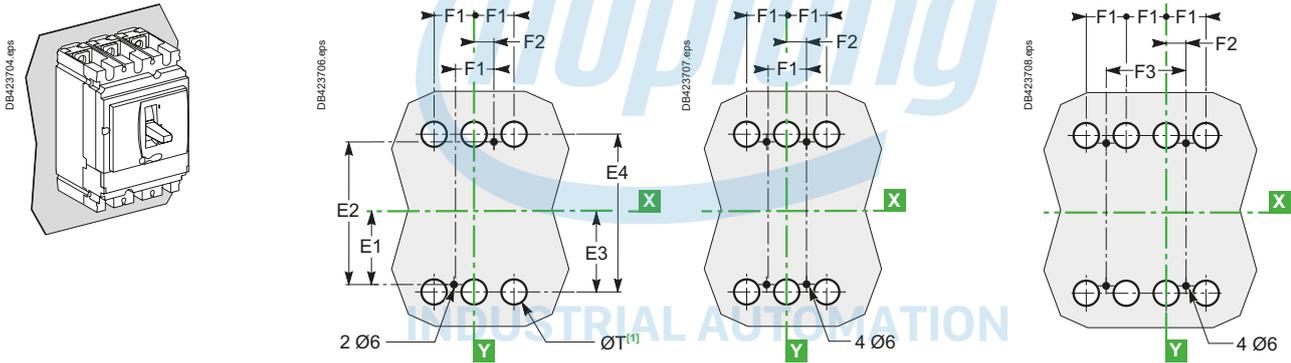
Dimensions



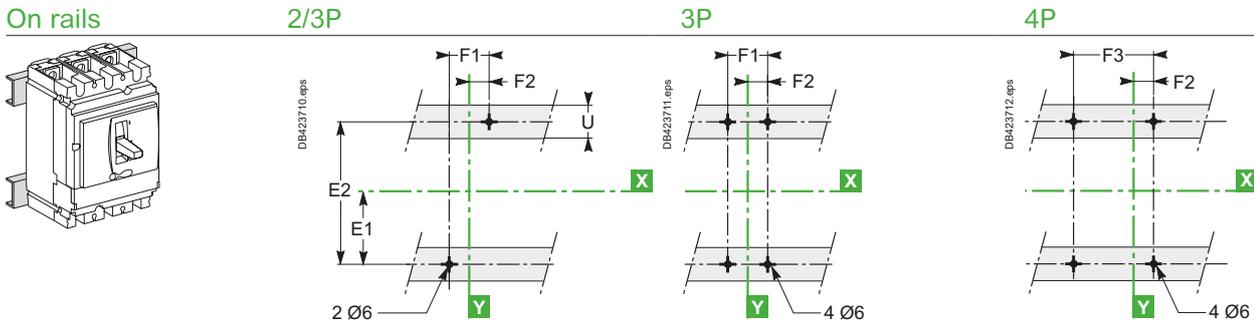
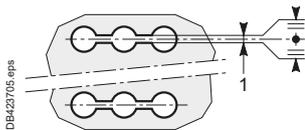
Interphase barriers.
 Long terminal shields (also available for NSX400/630 spreaders with 52.5 mm pitch:

 Short terminal shields. B1 = 157.5 mm, B2 = 210 mm.

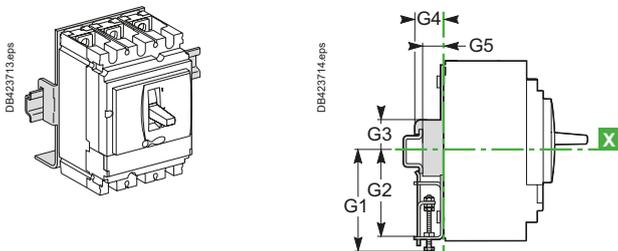
Mounting	NSX100 to 250	NSX400/630 [2]	NSX100 to 630 [2]
On backplate	2/3P	3P	4P



[2] For 630 A only: [1] The ØT holes are required for rear connection only.
 For two-pole circuit breakers, the middle holes are not required.



On DIN rail with adapter plate (NSX100 to 250)

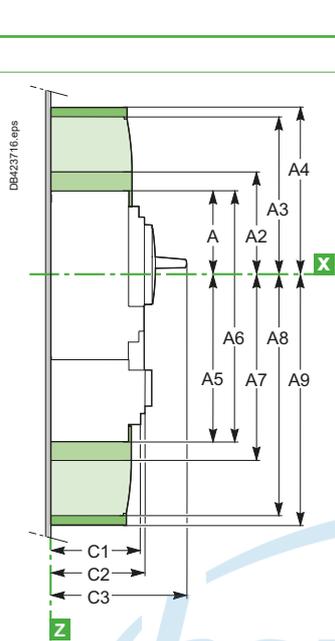
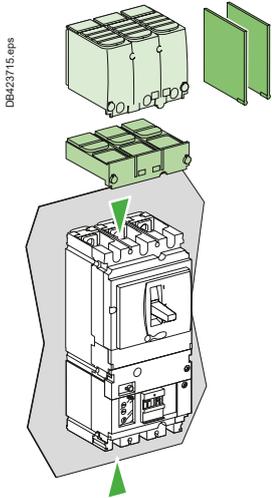


CÔNG TY CỔ PHẦN CÔNG NGHỆ HỢP LONG Switchboard integration

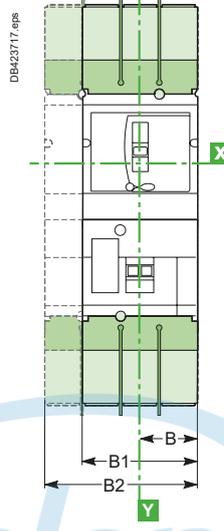
ComPact NSX dimensions and mounting

ComPact NSX100 to 630 Vigi add-on fixed version

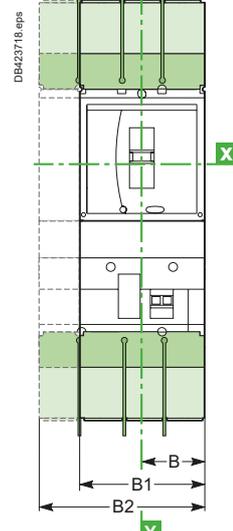
Dimensions



3/4P
NSX100 to 250



3/4P
NSX400/630



Mounting

On backplate

NSX100 to 250

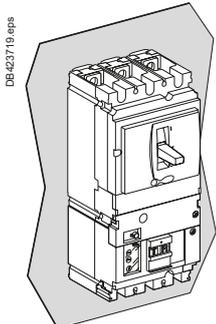
3P

NSX400/630 [2]

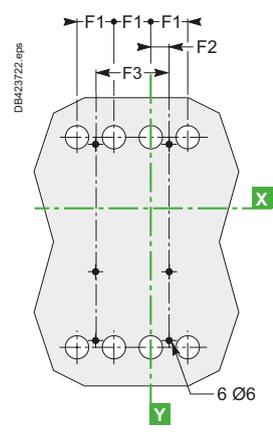
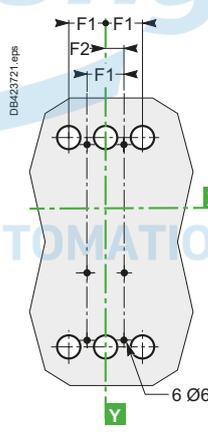
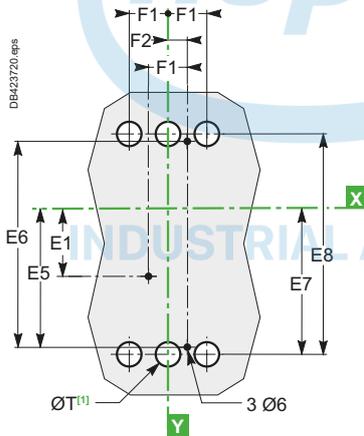
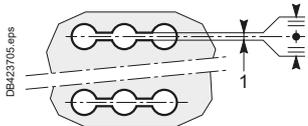
3P

NSX100 to 630 [2]

4P



[2] For 630 A only:



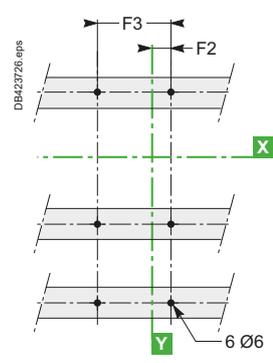
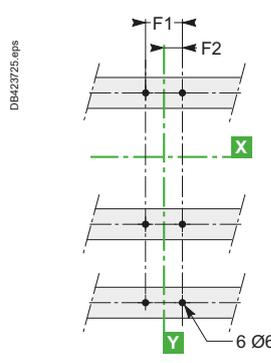
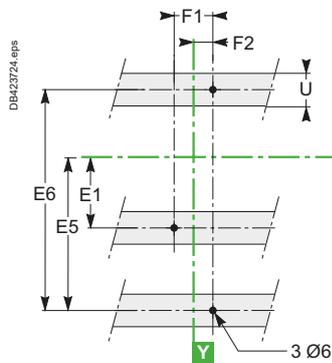
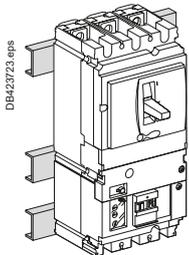
[1] The ØT holes are required for rear connection only.
For two-pole circuit breakers, the middle holes are not required.

On rails

3P

3P

4P



Type	A	A1	A2	A3	A4	A5	A6	A7	A8	A9	B	B1	B2	C1	C2	C3	E1
NSX100/160/250	80.5	161	94	145	178.5	155.5	236	169	220	253.5	52.5	105	140	81	86	126	62.5
NSX400/630	127.5	255	142.5	200	237	227.5	355	242.5	300	337	70	140	185	105	110	168	100
Type	E2	E3	E4	E5	E6	E7	E8	F1	F2	F3	G1	G2	G3	G4	G5	ØT	U
NSX100/160/250	125	70	140	137.5	200	145	215	35	17.5	70	95	75	13.5	23	17.5	24	≤ 32
NSX400/630	200	113.5	227	200	300	213.5	327	45	22.5	90	-	-	-	-	-	32	≤ 35

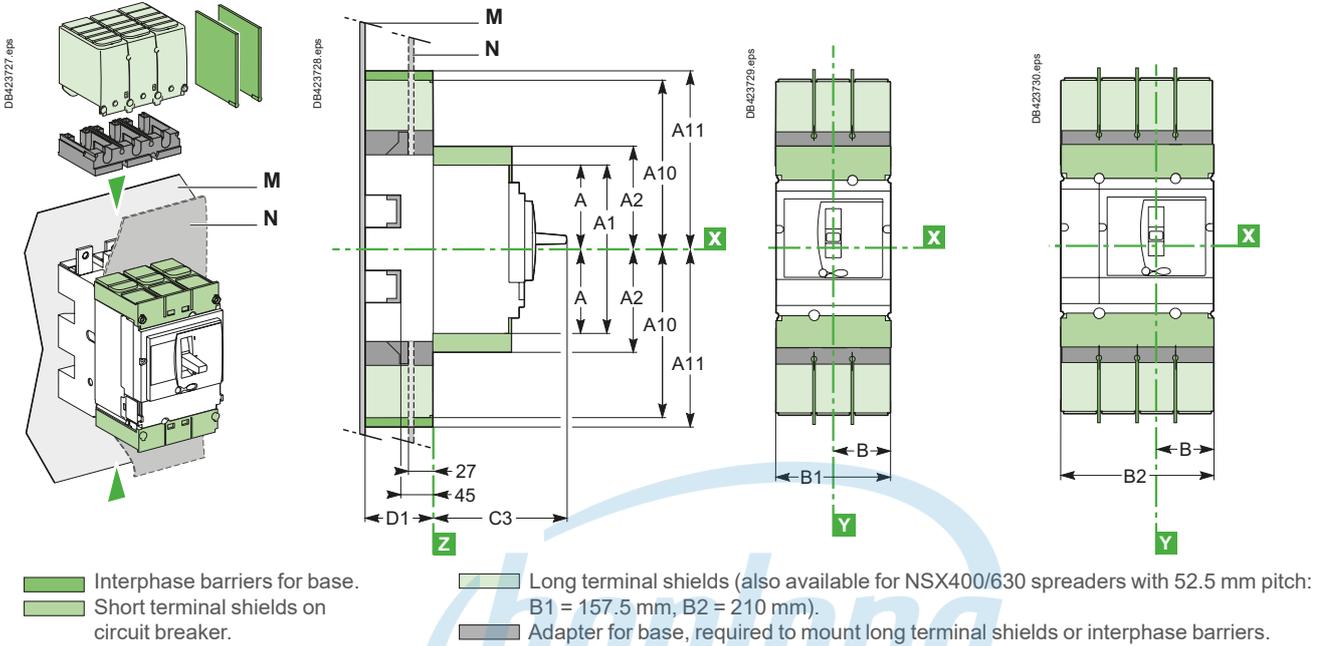
ComPact NSX dimensions and mounting

ComPact NSX100 to 630 plug-in version

Dimensions

2/3P

4P



Mounting

Through front panel (N)

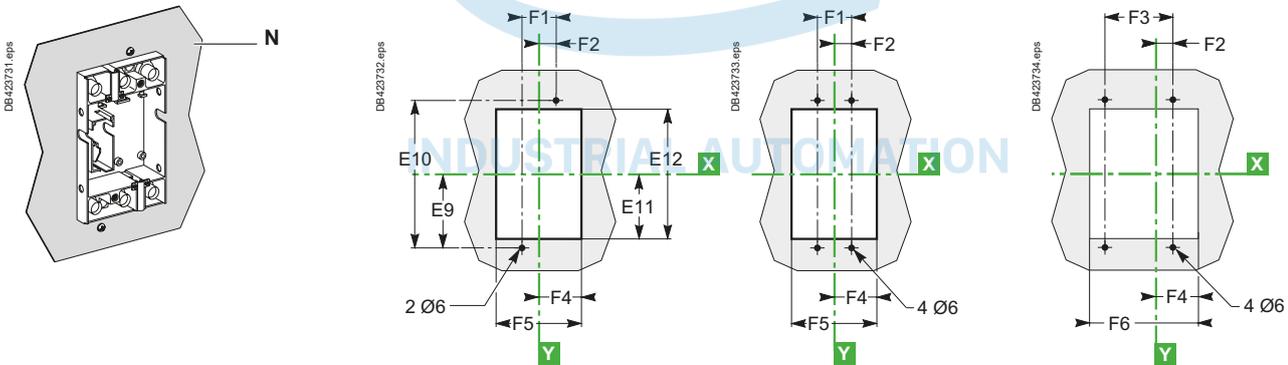
2/3P

3P

4P

NSX400/630

NSX100 to 630



ComPact NSX dimensions and mounting

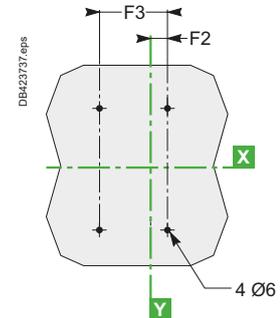
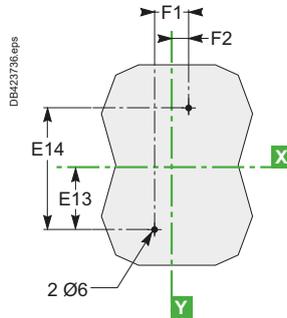
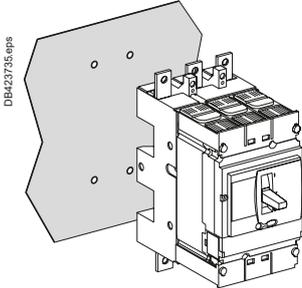
ComPact NSX100 to 630 plug-in version

On backplate (M)

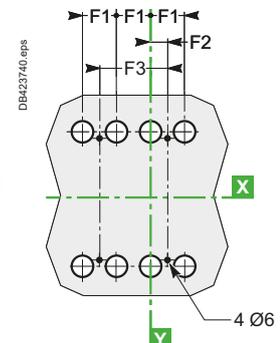
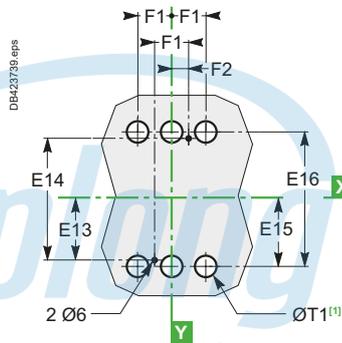
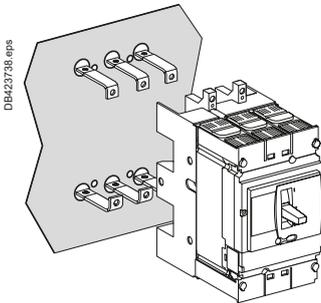
2/3P

4P

Front connection (an insulating screen is supplied with the base and must be fitted between the base and the backplate)

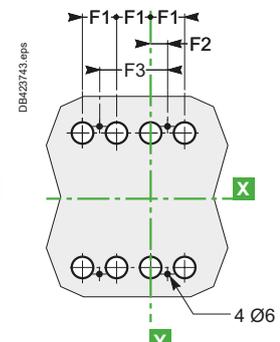
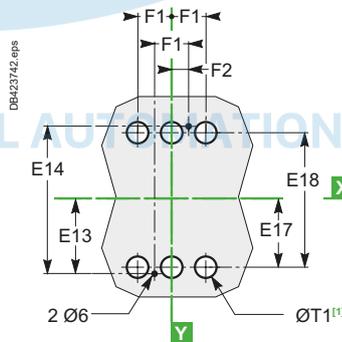
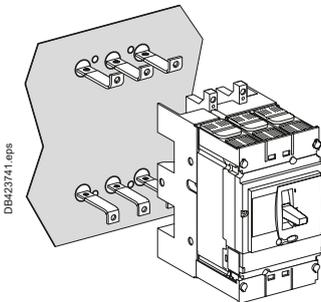


Connection by exterior-mounted rear connectors



[1] The ØT1 holes are required for rear connection only (for two-pole circuit breakers, the middle holes are not required).

Connection by interior-mounted rear connectors

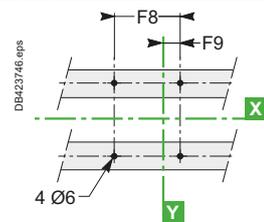
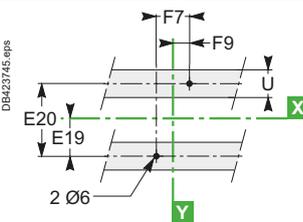
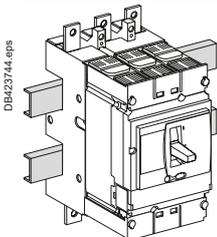


[1] The ØT1 holes are required for rear connection only (for two-pole circuit breakers, the middle holes are not required).

On rails

2/3P

4P



Type	A	A1	A2	A10	A11	B	B1	B2	C3	D1	E9	E10	E11	E12	E13	E14	E15
NSX100/160/250	80.5	161	94	175	210	52.5	105	140	126	75	95	190	87	174	77.5	155	79
NSX400/630	127.5	255	142.5	244	281	70	140	185	168	100	150	300	137	274	125	250	126
Type	E16	E17	E18	E19	E20	F1	F2	F3	F4	F5	F6	F7	F8	F9	ØT1	U	
NSX100/160/250	158	61	122	37.5	75	35	17.5	70	54.5	109	144	70	105	35	24	≤ 32	
NSX400/630	252	101	202	75	150	45	22.5	90	71.5	143	188	100	145	50	33	≤ 35	

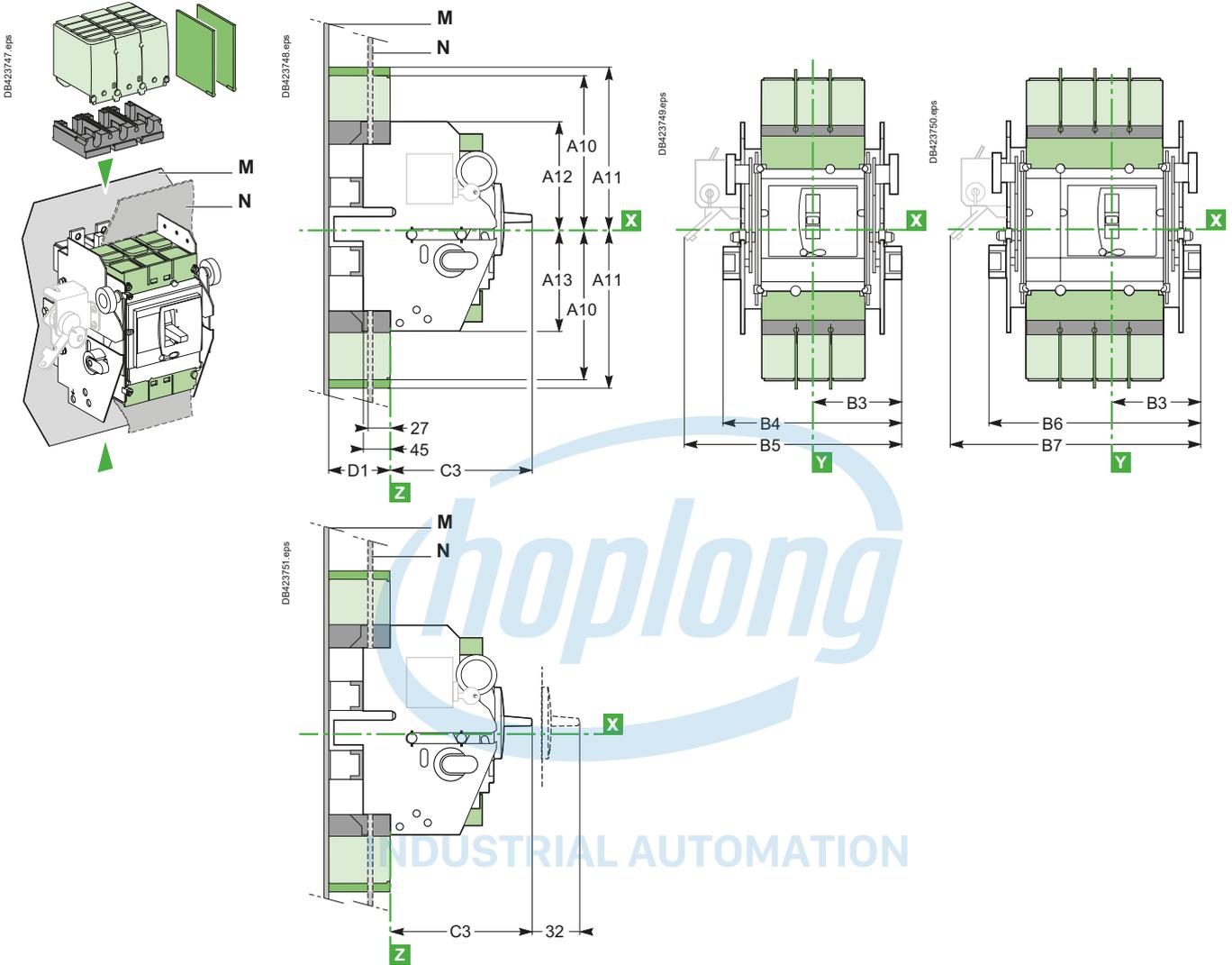
ComPact NSX dimensions and mounting

ComPact NSX100 to 630 withdrawable version

Dimensions

2/3P

4P



- Interphase barriers for base.
- Short terminal shields on circuit breaker.
- Long terminal shields.
- Adapter for base, required to mount long terminal shields or interphase barriers.

Mounting

Through front panel (N)

2/3P

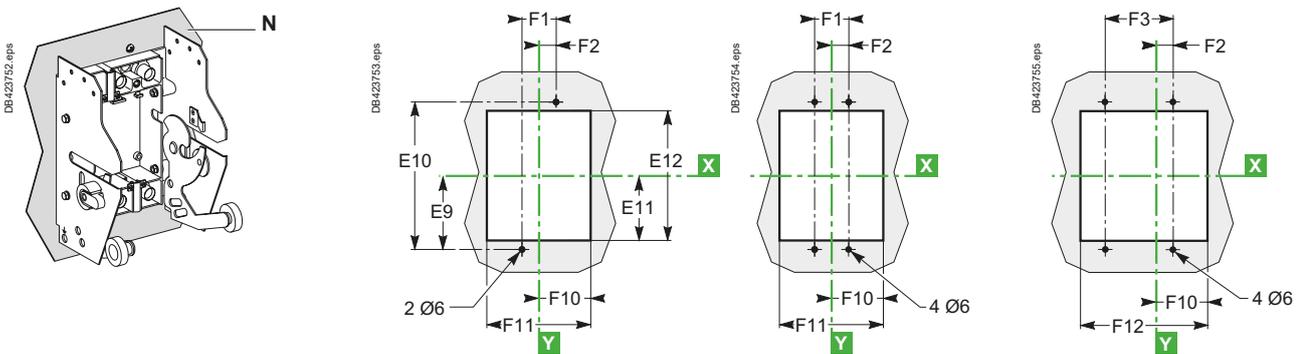
3P

4P

NSX100 to 250

NSX400/630

NSX100 to 630



ComPact NSX dimensions and mounting

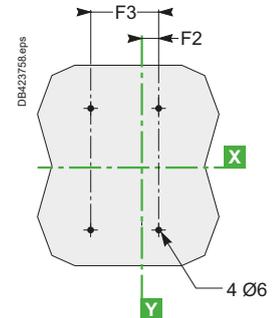
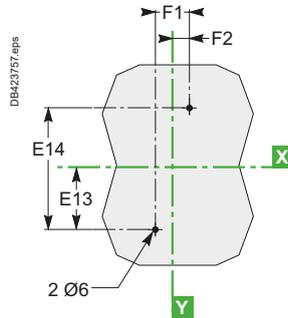
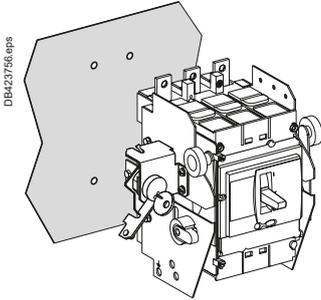
ComPact NSX100 to 630 withdrawable version

On backplate (M)

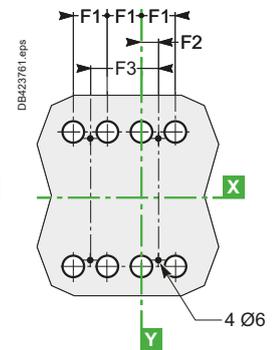
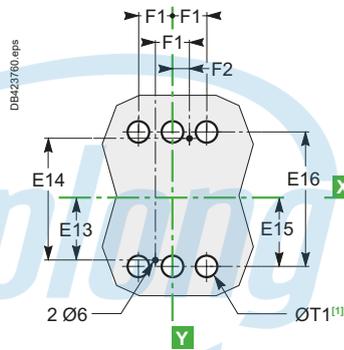
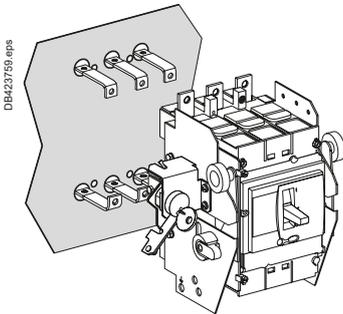
2/3P

4P

Front connection (an insulating screen is supplied with the base and must be fitted between the base and the backplate)

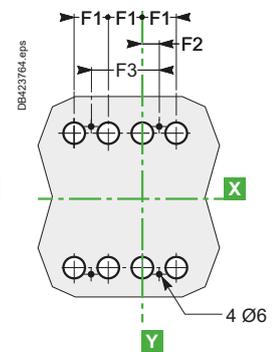
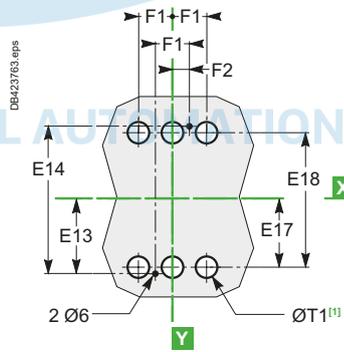
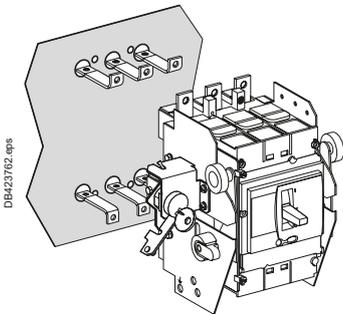


Connection by exterior-mounted rear connectors



[1] The ØT1 holes are required for rear connection only (for two-pole circuit breakers, the middle holes are not required).

Connection by interior-mounted rear connectors

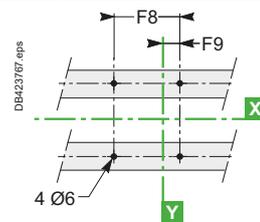
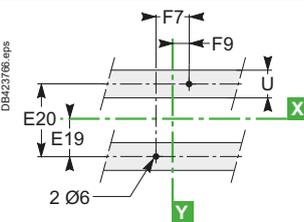
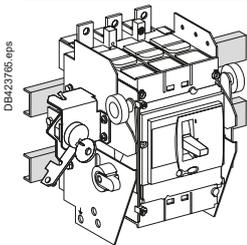


[1] The ØT1 holes are required for rear connection only (for two-pole circuit breakers, the middle holes are not required).

On rails

2/3P

4P



Type	A10	A11	A12	A13	B3	B4	B5	B6	B7	C3	D1	E9	E10	E11	E12	E13	E14
NSX100/160/250	175	210	106.5	103.5	92.5	185	216	220	251	126	75	95	190	87	174	77.5	155
NSX400/630	244	281	140	140	110	220	250	265	295	168	100	150	300	137	274	125	250
Type	E15	E16	E17	E18	E19	E20	F1	F2	F3	F7	F8	F9	F10	F11	F12	ØT1	U
NSX100/160/250	79	158	61	122	37.5	75	35	17.5	70	70	105	35	74	148	183	24	≤ 32
NSX400/630	126	252	101	202	75	150	45	22.5	90	100	145	50	91.5	183	228	33	≤ 35

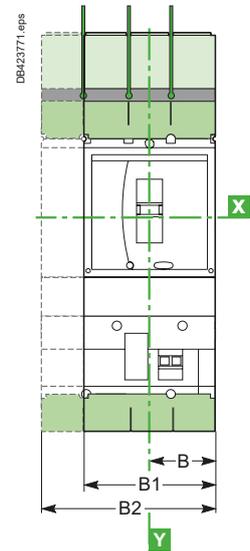
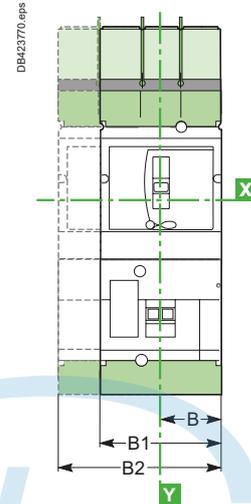
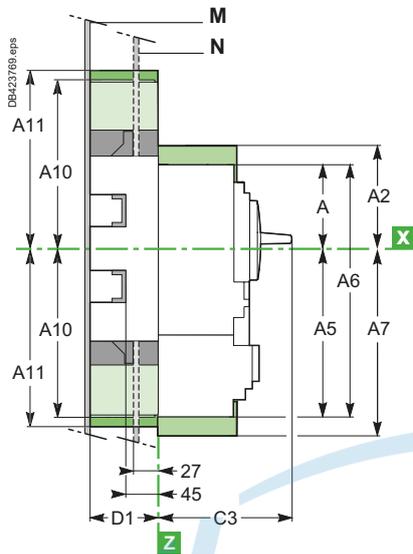
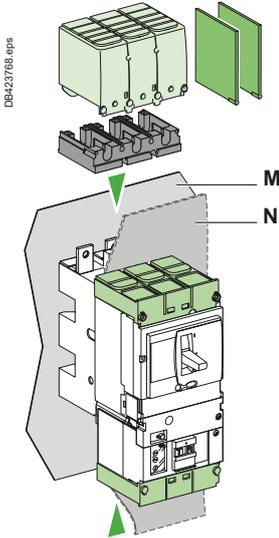
ComPact NSX dimensions and mounting

ComPact NSX100 to 630 Vigi add-on plug-in and withdrawable versions

Dimensions - plug-in version

NSX100 to 250
3/4P

NSX400/630
3/4P



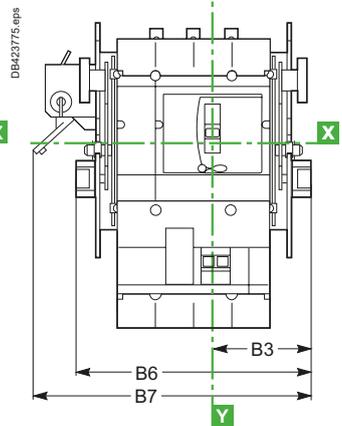
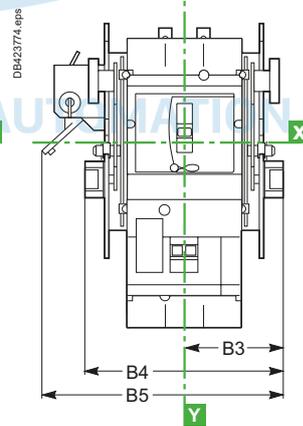
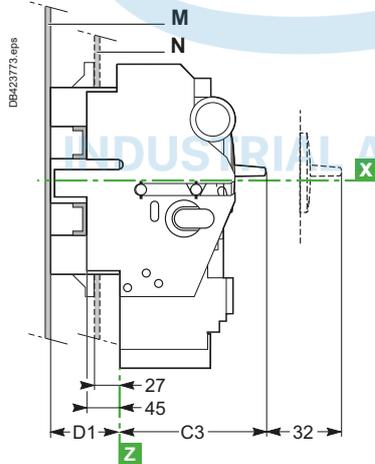
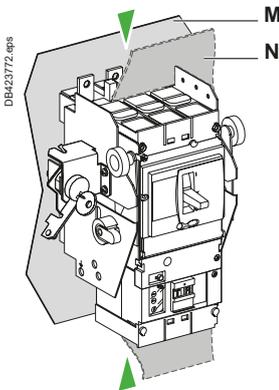
Interphase barriers for base.
Short terminal shields on circuit breaker.

Long terminal shields (also available for NSX400/630 spreaders with 52.5 mm pitch):
B1 = 157.5 mm, B2 = 210 mm).
Adapter for base, required to mount long terminal shields or interphase barriers.

Dimensions - withdrawable version

NSX100 to 630
3P

4P



Mounting

Through front panel (N)

See ComPact NSX100 to 630 plug-in version, [page E-38](#), or withdrawable version, [page E-40](#)

On backplate (M)

See ComPact NSX100 to 630 plug-in version, [page E-39](#), or withdrawable version, [page E-41](#)

On rails

See ComPact NSX100 to 630 plug-in version, [page E-39](#), or withdrawable version, [page E-41](#)

Type	A	A2	A5	A6	A7	A10	A11	B	B1	B2	B3	B4	B5	B6	B7	C3	D1
NSX100/160/250	80.5	94	155.5	236	169	175	210	52.5	105	140	92.5	185	216	220	251	126	75
NSX400/630	127.5	142.5	227.5	355	242.5	244	281	70	140	185	110	220	250	265	295	168	100

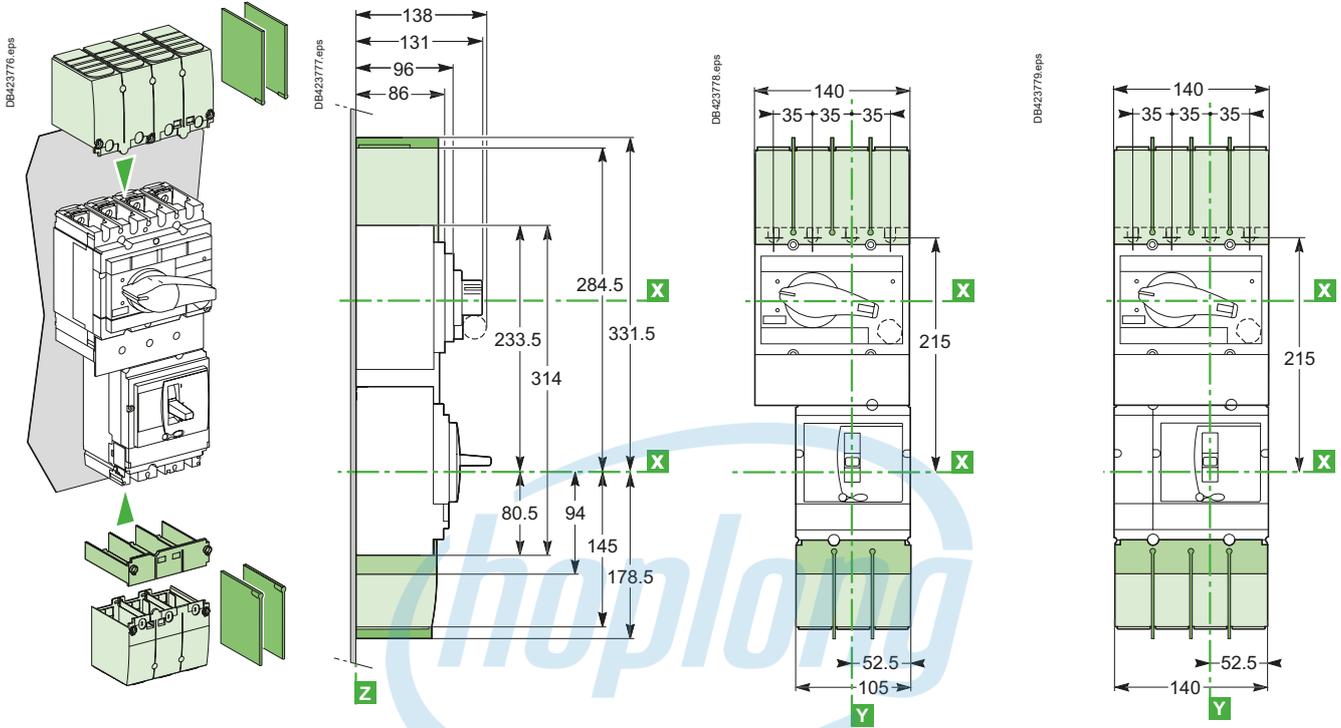
ComPact NSX dimensions and mounting

Visu function for ComPact NSX100 to 250 fixed version

Dimensions - combination with ComPact INV100 to 250

3P

4P

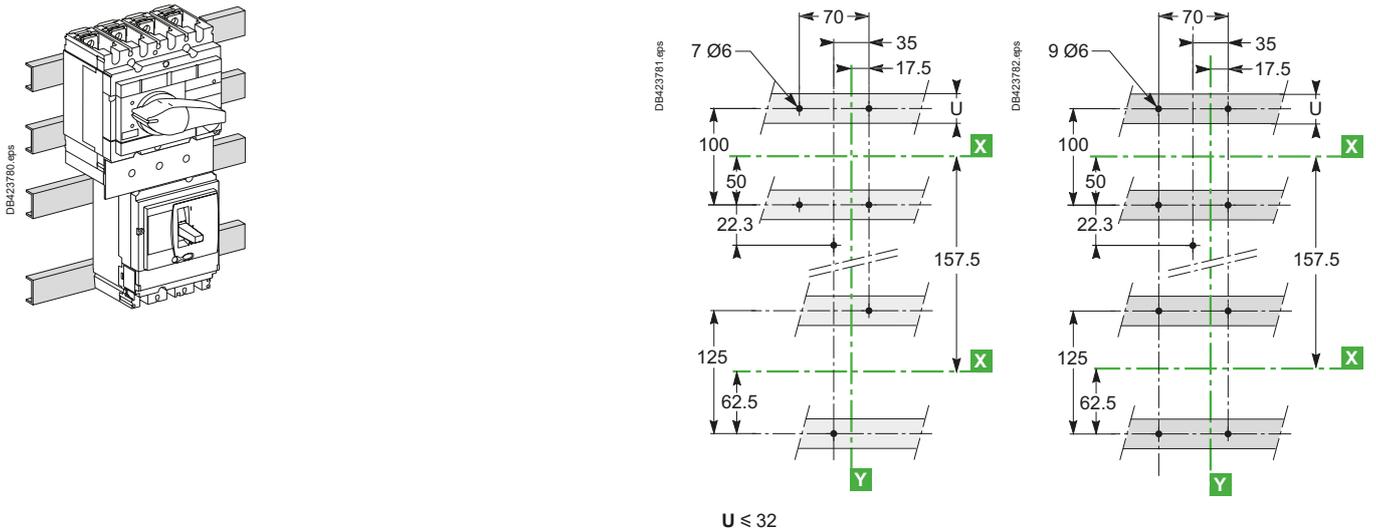


Mounting

On rails or backplate

3P

4P



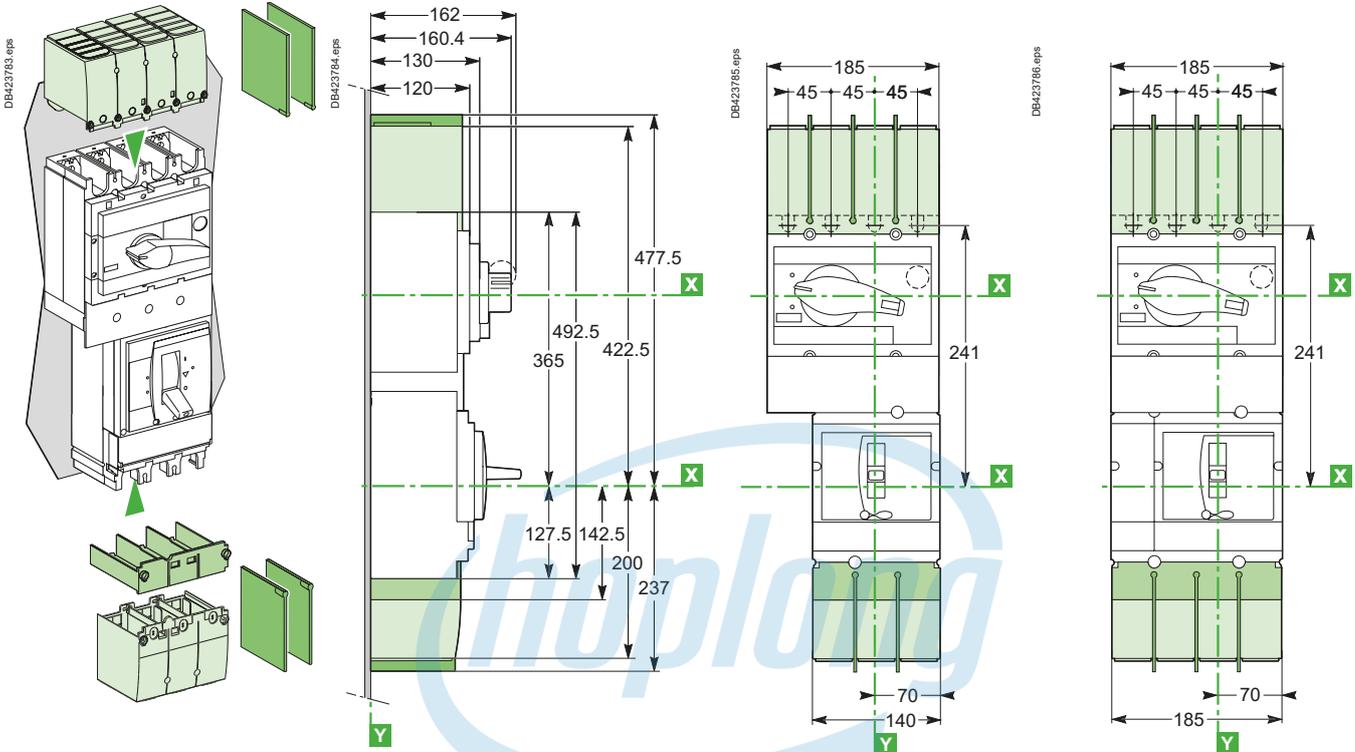
ComPact NSX dimensions and mounting

Visu function for ComPact NSX400/630 fixed version

Dimensions - combination with ComPact INV400 to 630

3P

4P



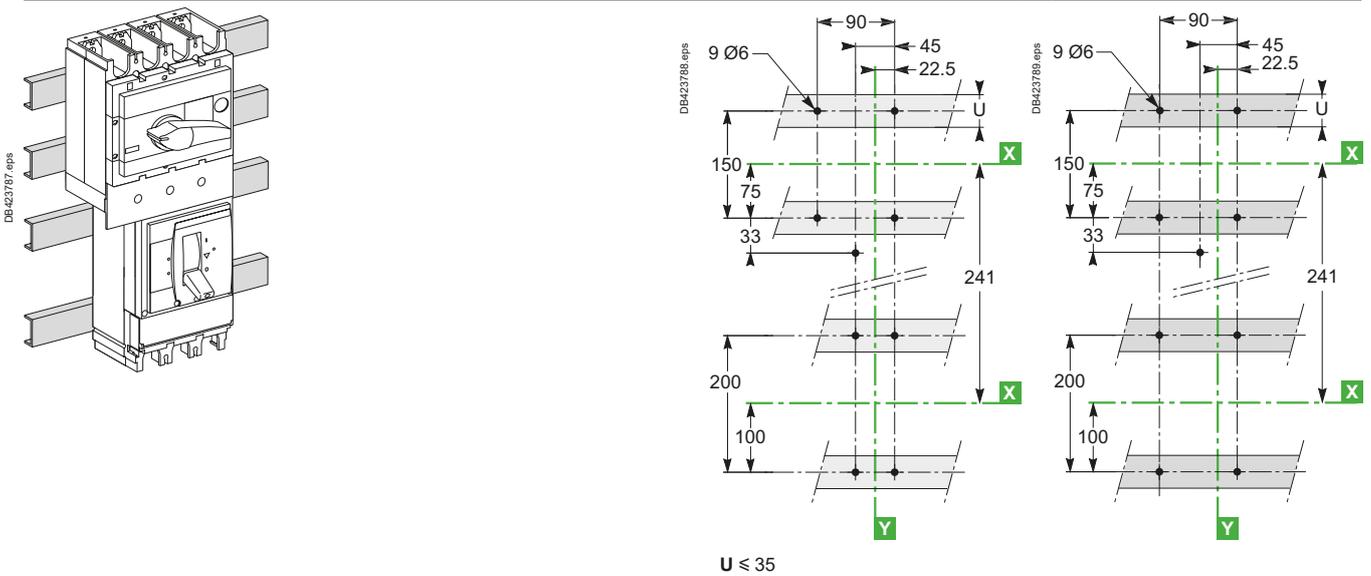
E

Mounting

On rails or backplate

3P

4P



ComPact NSX dimensions and mounting

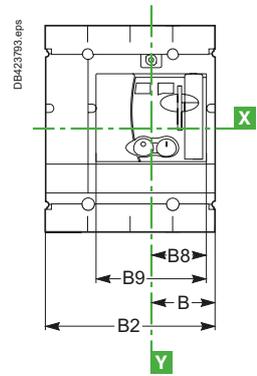
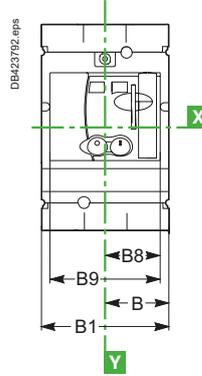
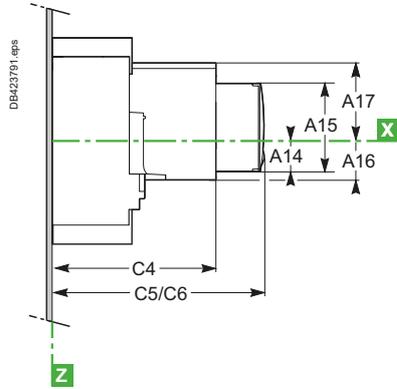
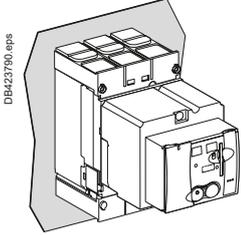
Motor mechanism module for ComPact NSX100 to 630

Dimensions

3P

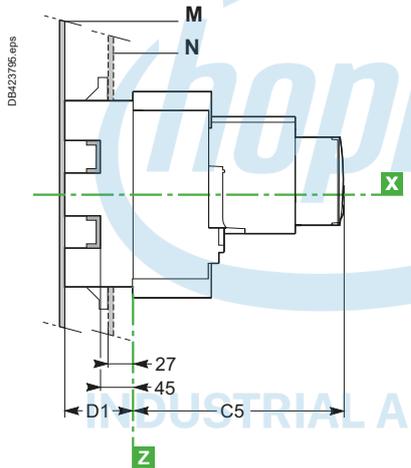
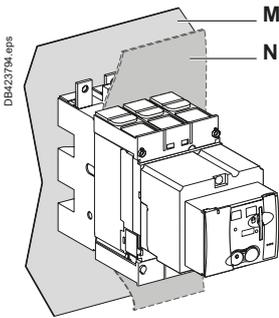
4P

Fixed circuit breaker

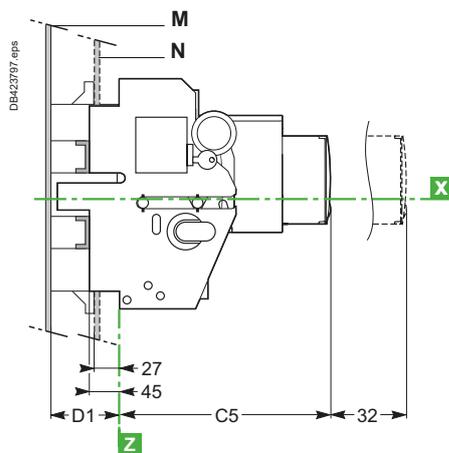
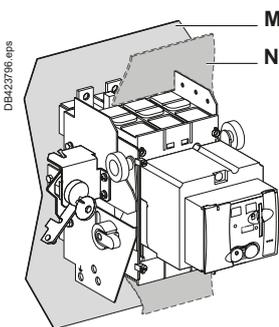


C5: without keylock
C6: with keylock

Plug-in circuit breaker



Withdrawable circuit breaker



Type	A14	A15	A16	A17	B	B1	B2	B8	B9	C4	C5	C6	D1
NSX100/160/250	27.5	73	34.5	62.5	52.5	105	140	45.5	91	143	182	209.5	75
NSX400/630	40	123	52	100	70	140	185	61.5	123	215	256	258	100

ComPact NSX dimensions and mounting

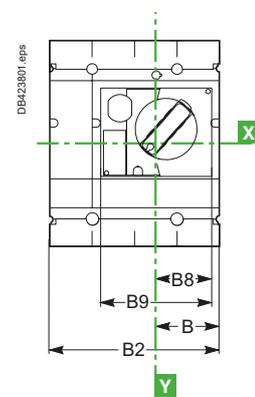
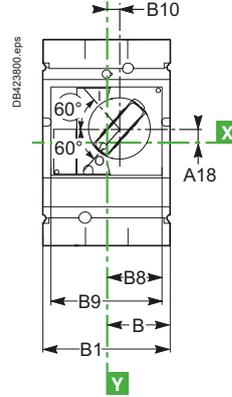
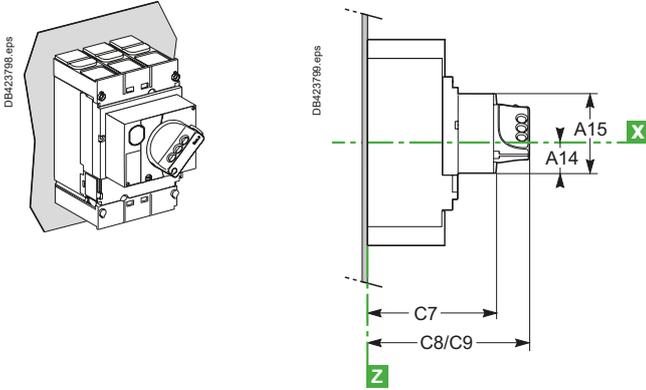
Direct rotary handle for ComPact NSX100 to 630

Dimensions

Fixed circuit breaker

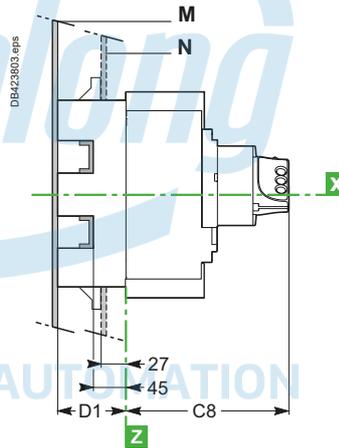
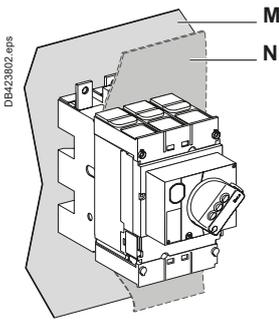
3P

4P

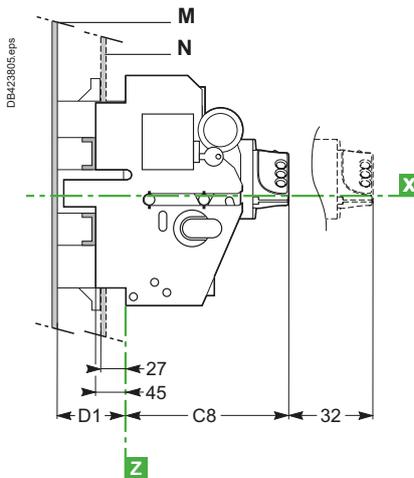
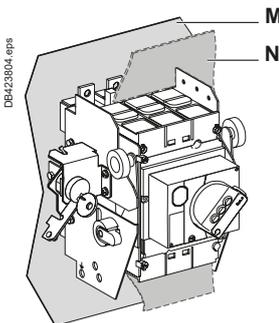


C8: without keylock
C9: with keylock

Plug-in circuit breaker



Withdrawable circuit breaker



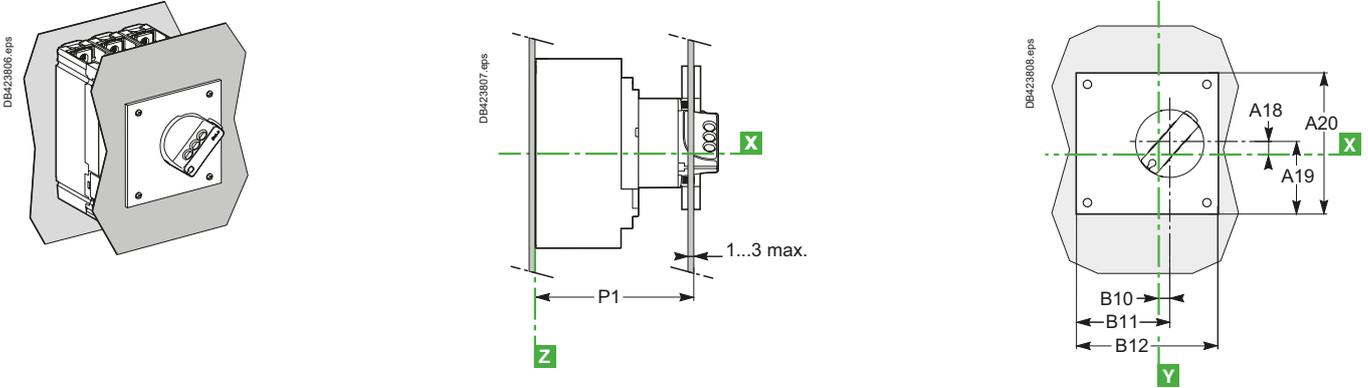
Type	A14	A15	A18	B	B1	B2	B8	B9	B10	C7	C8	C9	D1
NSX100/160/250	27.5	73	9	52.5	105	140	45.5	91	9.25	121	155	164	75
NSX400/630	40	123	24.6	70	140	185	61.5	123	5	145	179	188	100

ComPact NSX dimensions and mounting

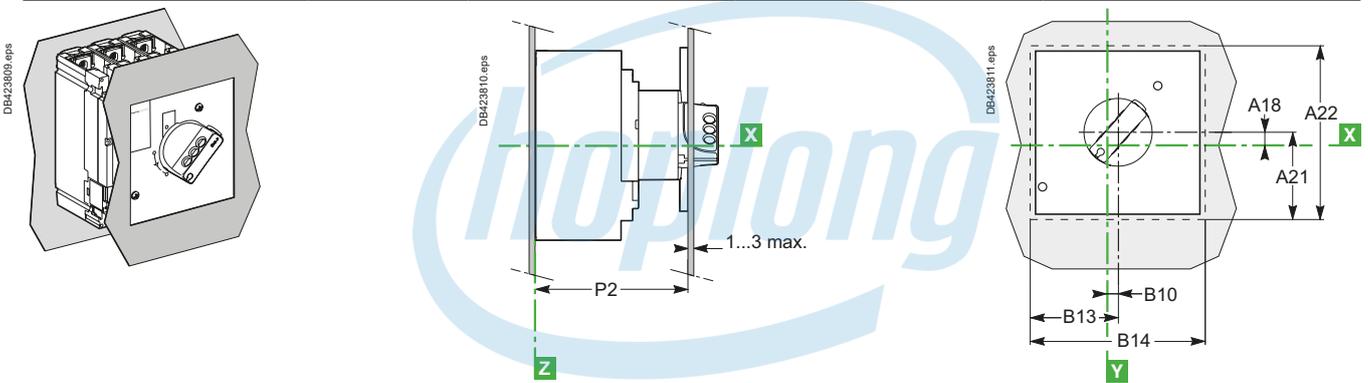
MCC and CNOMO type direct rotary handles for ComPact NSX100 to 630 fixed version

Dimensions

MCC type direct rotary handle



CNOMO type direct rotary handle

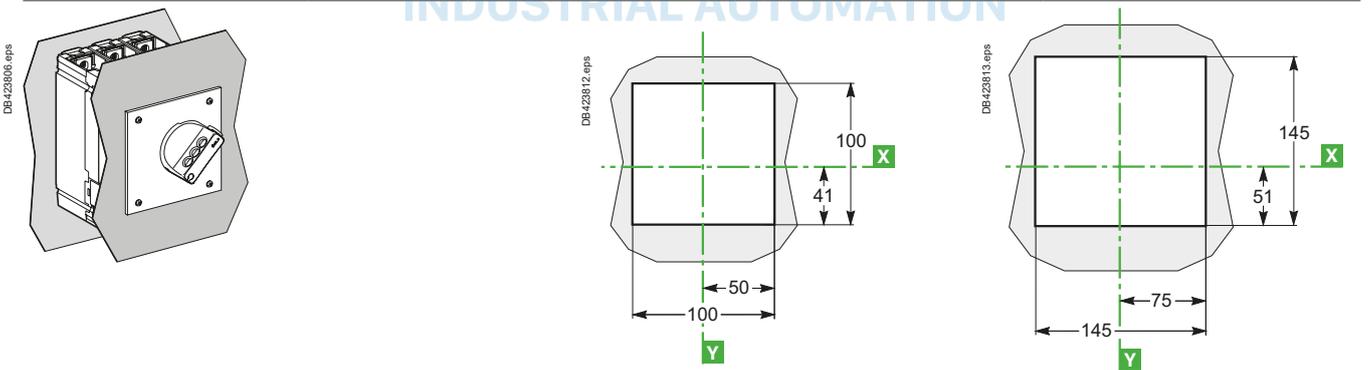


Front-panel cutout

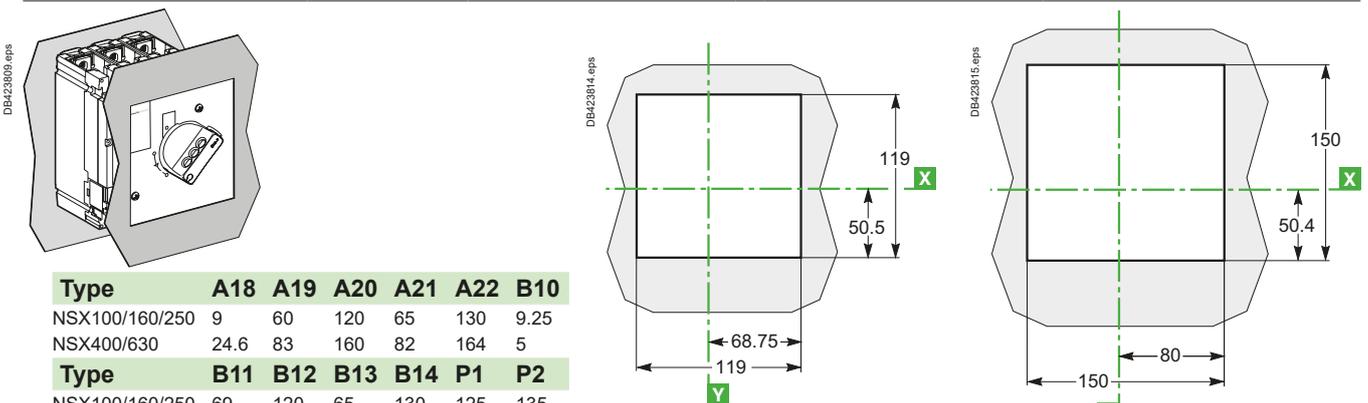
NSX100 to 250

NSX400/630

MCC type direct rotary handle



CNOMO type direct rotary handle



Type	A18	A19	A20	A21	A22	B10
NSX100/160/250	9	60	120	65	130	9.25
NSX400/630	24.6	83	160	82	164	5

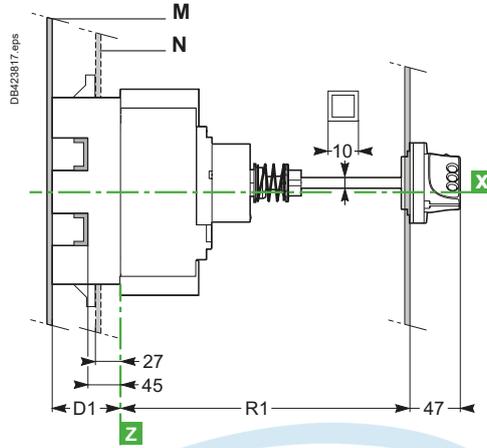
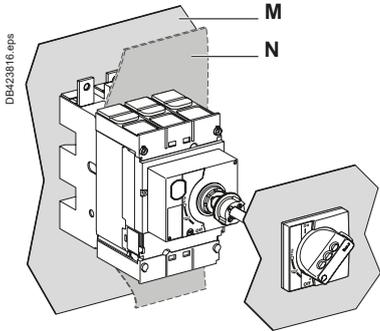
Type	B11	B12	B13	B14	P1	P2
NSX100/160/250	69	120	65	130	125	135
NSX400/630	85	160	82	164	149	158

ComPact NSX dimensions and mounting

Extended rotary handle for ComPact NSX100 to 630

Dimensions

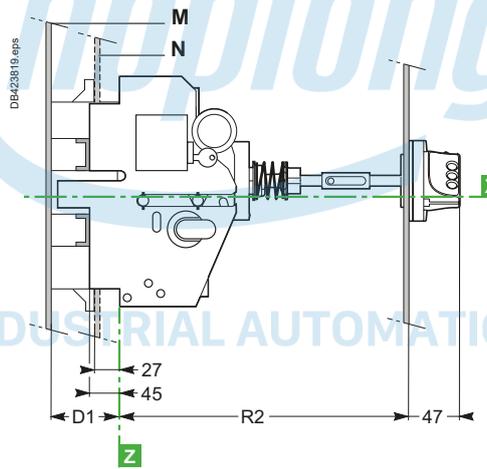
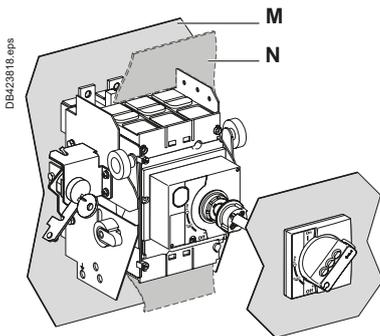
Fixed and plug-in circuit breakers



Cutout for shaft (mm)

Type	R1
NSX100/160/250	min. 171 max. 600
NSX400/630	min. 195 max. 600

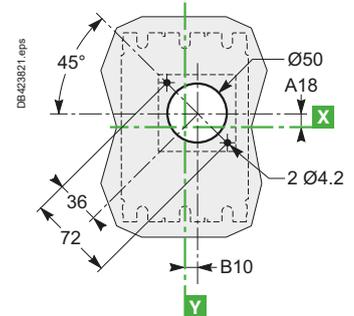
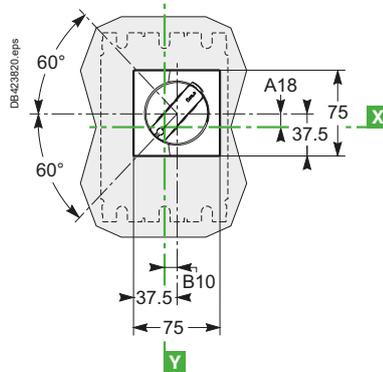
Withdrawable circuit breaker



Cutout for shaft (mm)

Type	R2
NSX100/160/250	min. 248 max. 600
NSX400/630	min. 272 max. 600

Dimensions and front-panel cutout



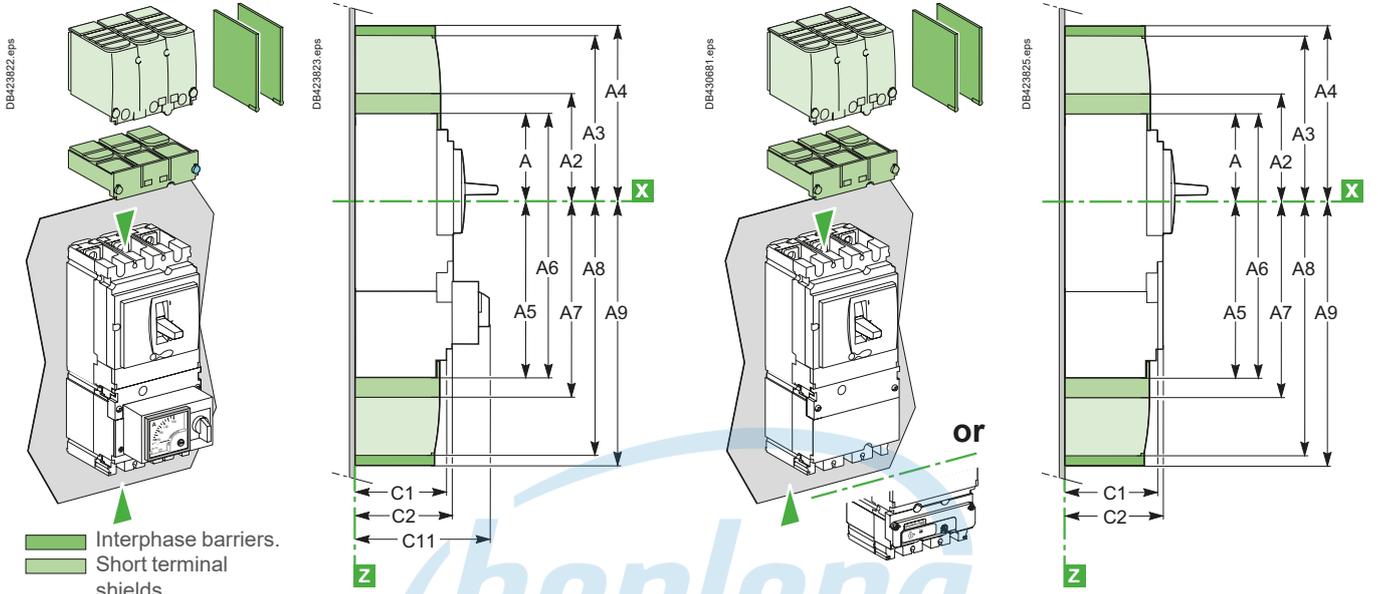
Type	A18	B10	D1
NSX100/160/250	9	9.25	75
NSX400/630	24.6	5	100

ComPact NSX dimensions and mounting

Indication and measurement modules for ComPact NSX100 to 630 fixed version

Dimensions of circuit breaker with Ammeter module

Current-transformer / PowerLogic PowerTag NSX module

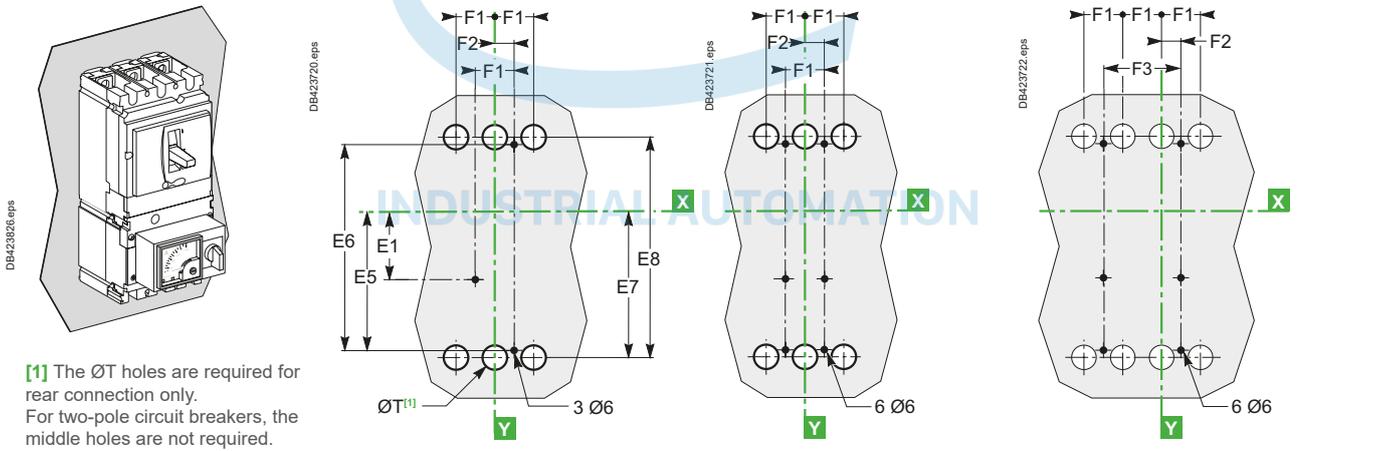


Mounting

On backplate

NSX100 to 250 2/3P NSX400/630 3P

NSX100 to 630 4P

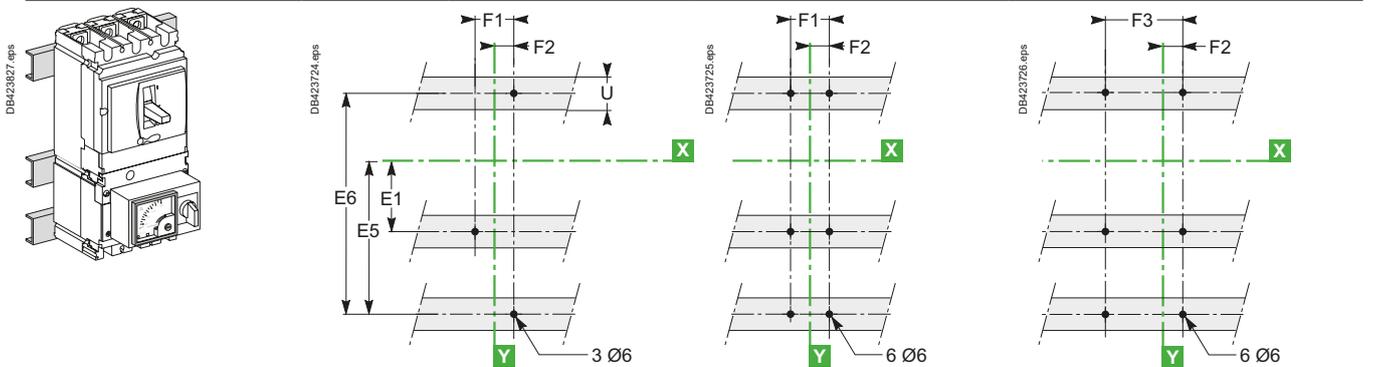


On rails

2/3P

3P

4P

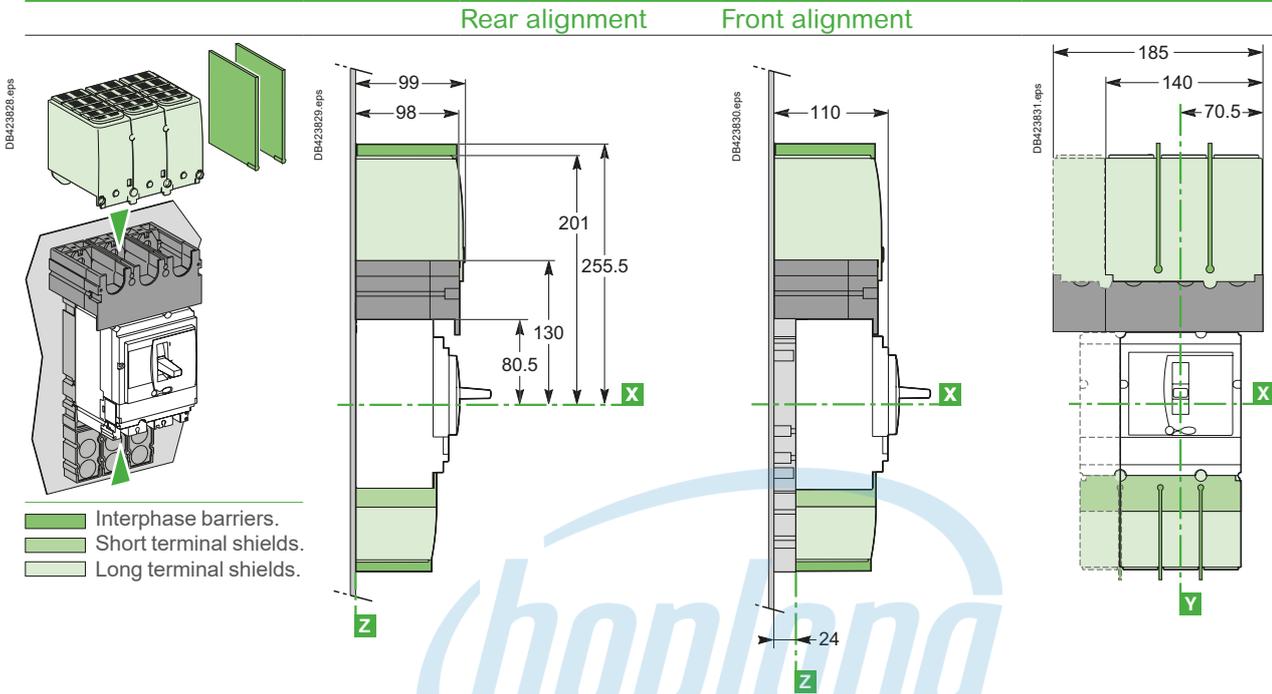


Type	A	A2	A3	A4	A5	A6	A7	A8	A9	C1	C2	C11	E1	E5	E6	E7	E8	F1
NSX100/160/250	80.5	94	145	178.5	155.5	236	169	220	253.5	81	86	137	62.5	137.5	200	145	215	35
NSX400/630	127.5	142.5	200	237	227.5	355	242.5	300	337	95.5	110	162	100	200	300	213.5	327	45
Type	F2	F3	ØT	U	Type	A5	A6	A7	A8	A9	E5	E6	E7	E8				
NSX100/160/250	17.5	70	24	≤ 32	NSX100/160/250 with PowerTag NSX	120.5	201	134	185	219.5	102.5	165	110	180				
NSX400/630	22.5	90	32	≤ 35	NSX400/630 with PowerTag NSX	192.5	320	207.5	265	302.5	165	265	178.5	192				

ComPact NSX dimensions and mounting

One-piece spreader for ComPact NSX100 to 250 fixed version

Dimensions

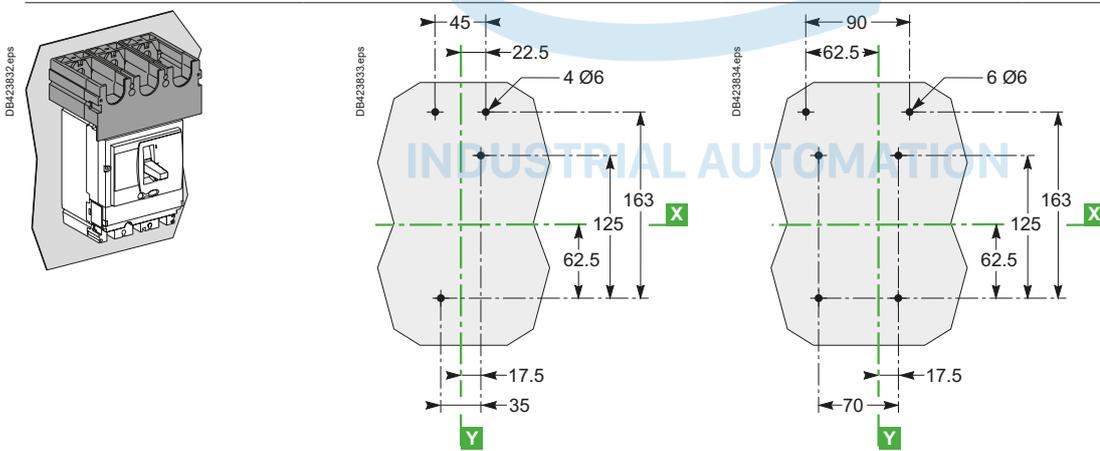


Mounting

Rear alignment

2/3P

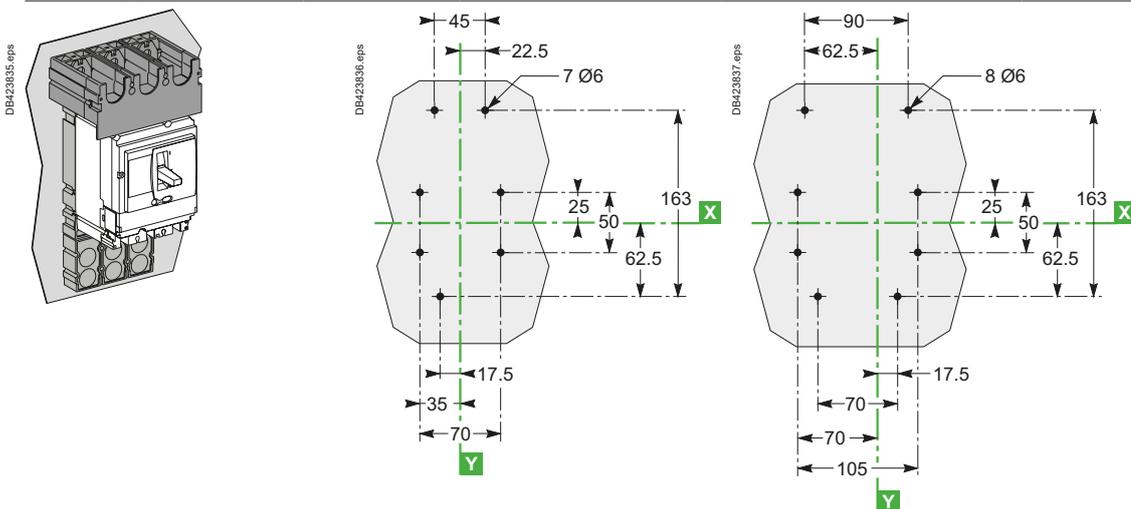
4P



Front alignment

2/3P

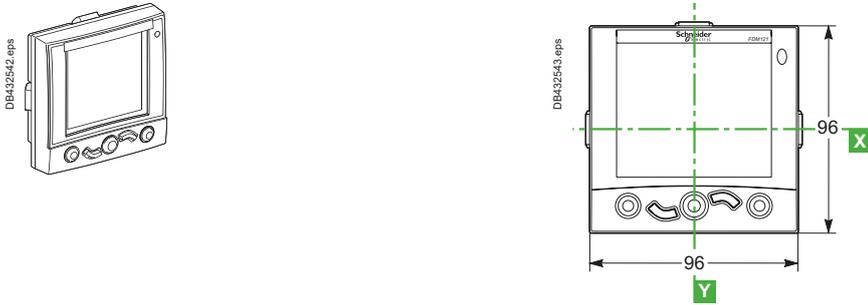
4P



ComPact NSX dimensions and mounting

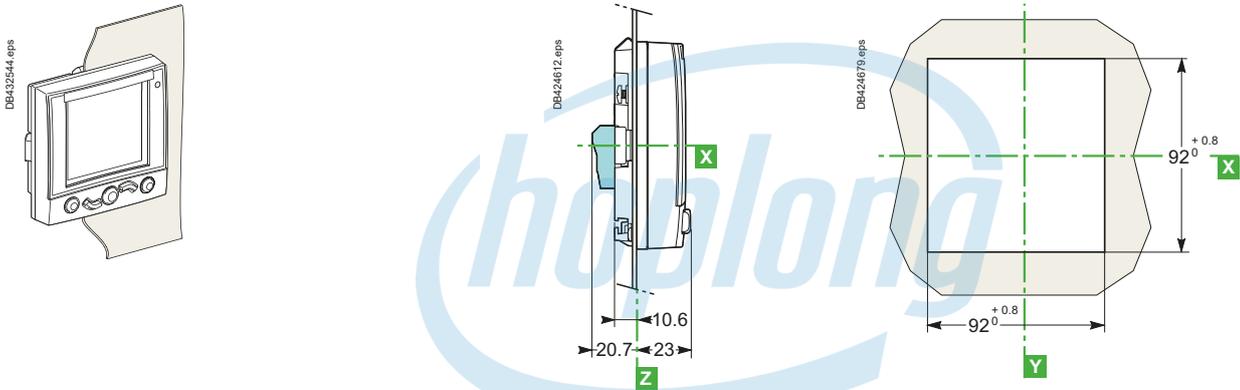
FDM121 switchboard display

Dimensions

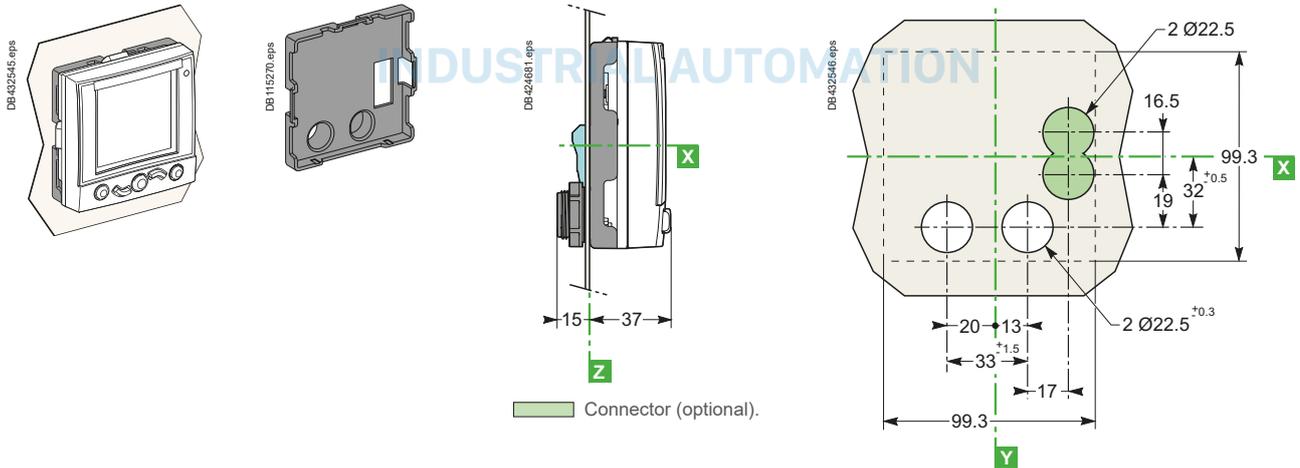


Mounting

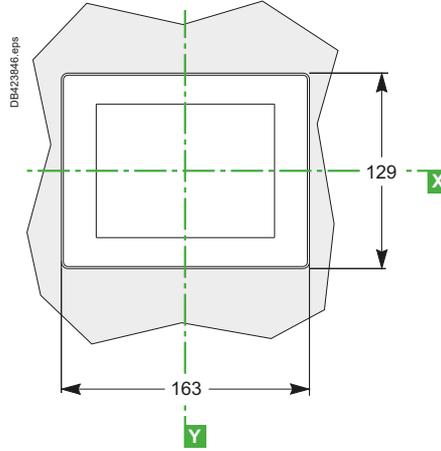
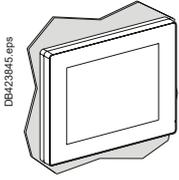
Through panel



On panel

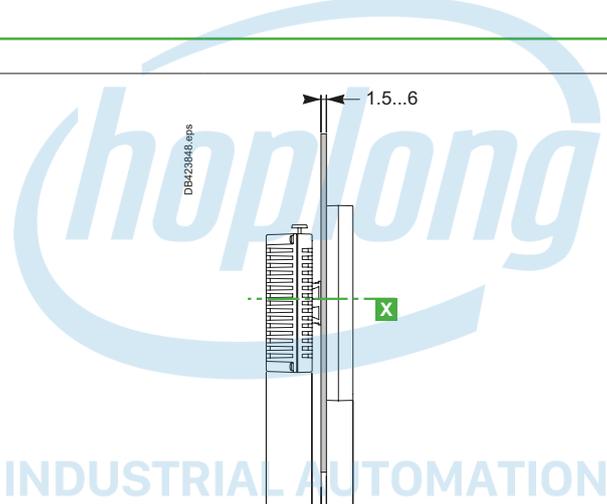
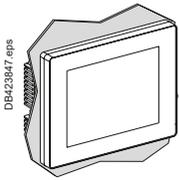


Dimensions

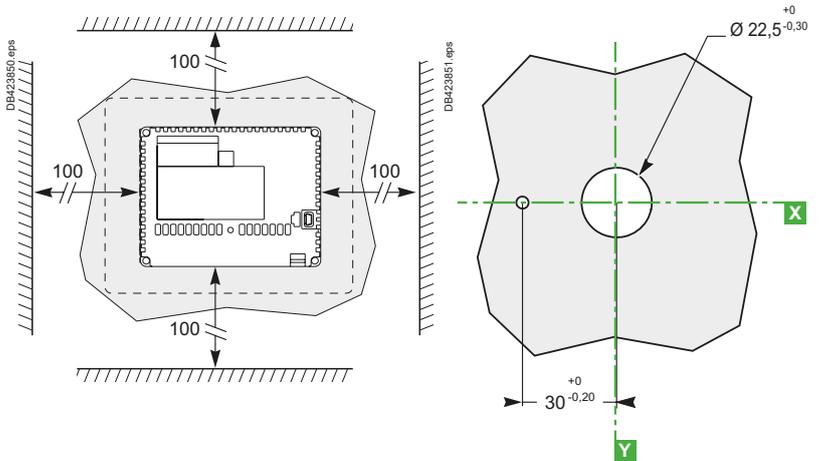
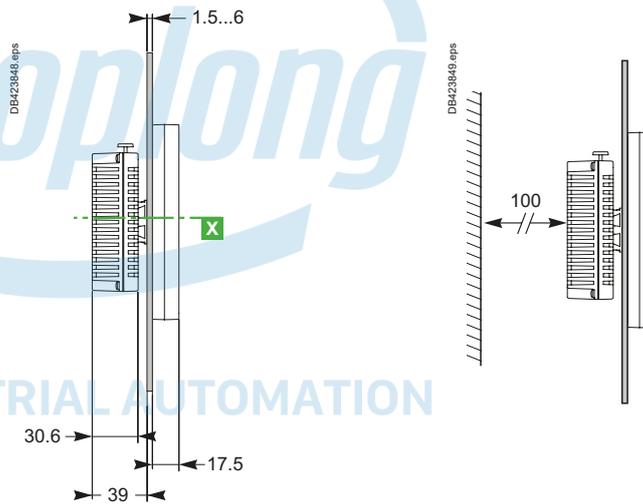


Mounting

On panel



INDUSTRIAL AUTOMATION

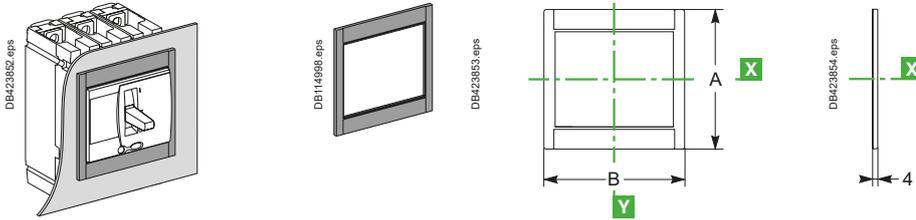


ComPact NSX front-panel accessories

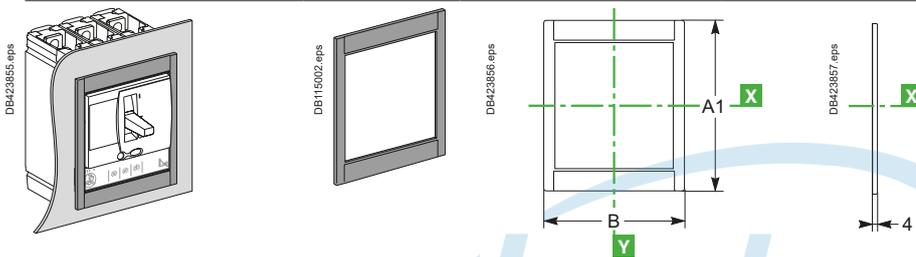
ComPact NSX100 to 630

IP30 front-panel escutcheons

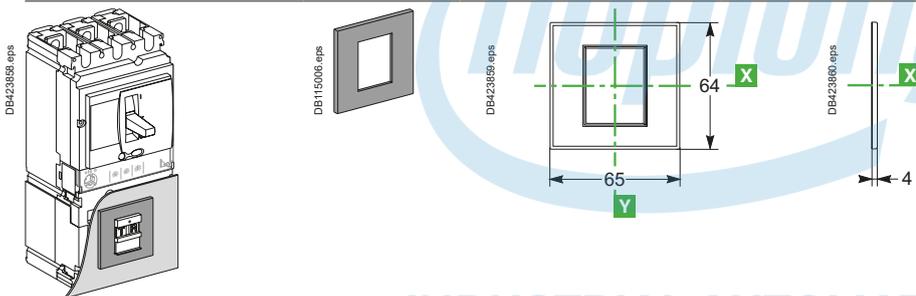
For toggle, rotary handle or motor mechanism module



For toggle or rotary handle with access to trip unit



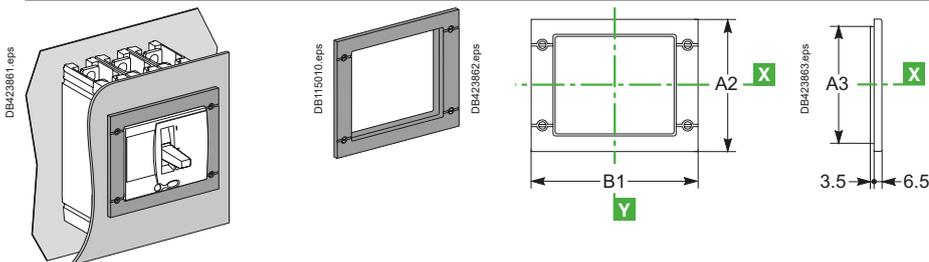
For Vigi add-on



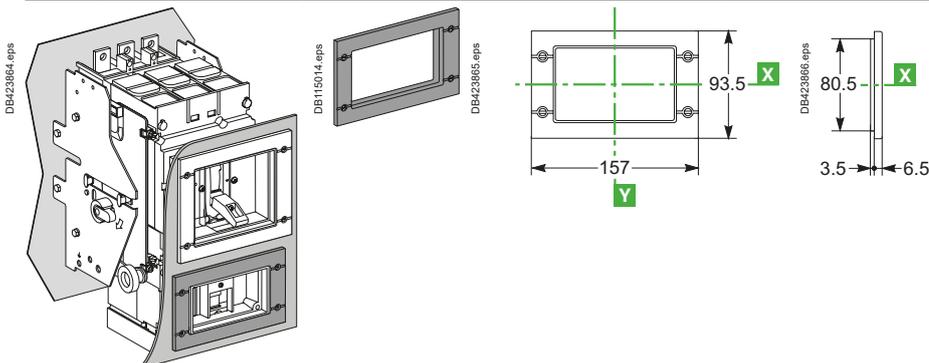
INDUSTRIAL AUTOMATION

IP40 front-panel escutcheons

For toggle, rotary handle or motor mechanism module and protection collar

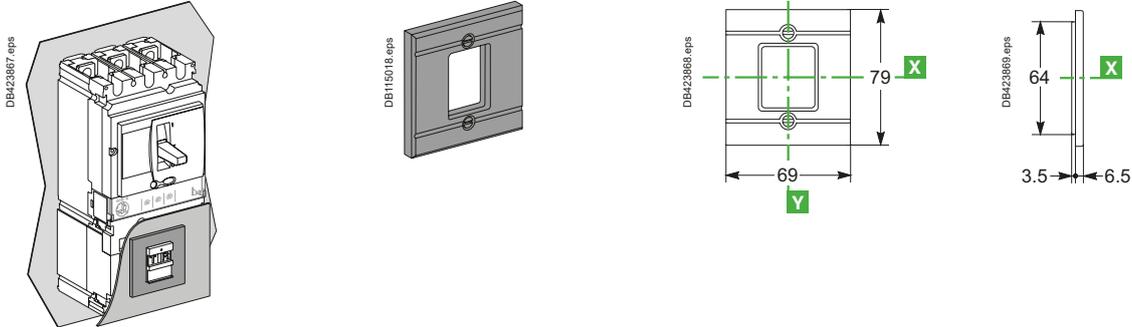


For Vigi add-on with protection collar or ammeter module



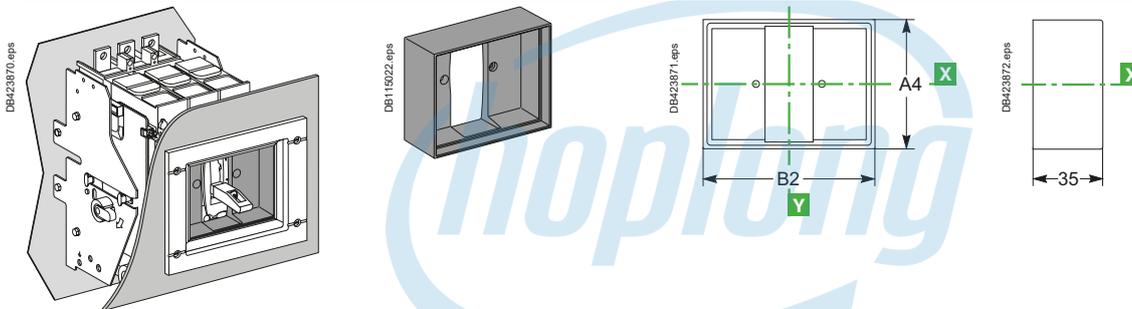
IP40 front-panel escutcheons (cont.)

For Vigi add-on

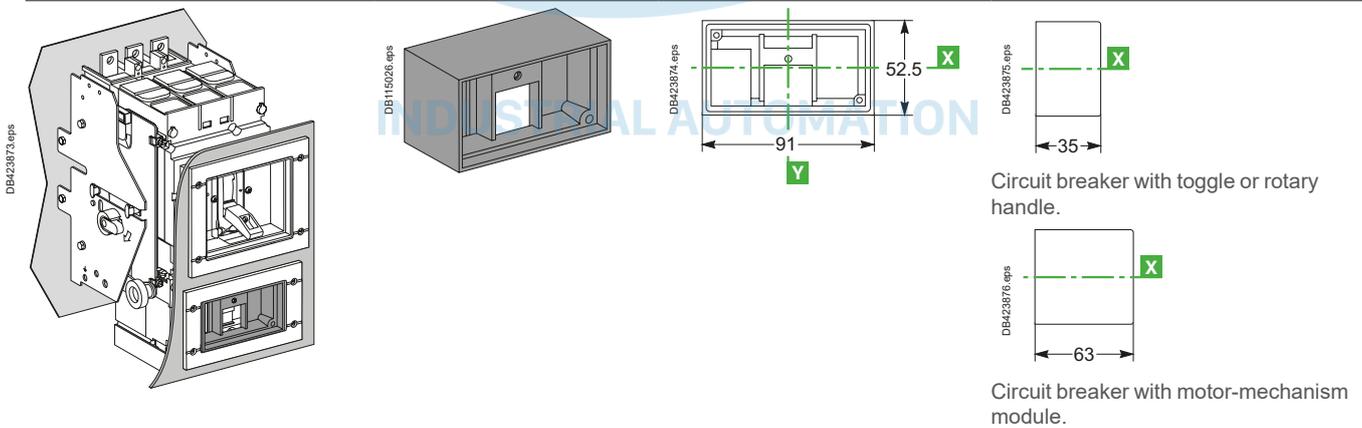


Protection collars for IP40 front-panel escutcheons

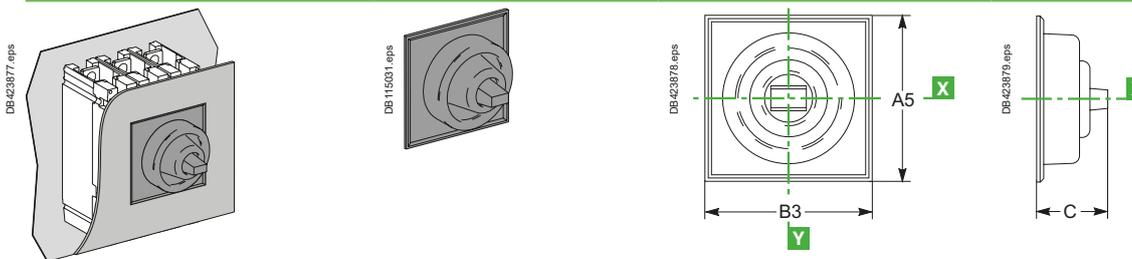
For toggle



For Vigi add-on



IP43 toggle cover



Type	A	A1	A2	A3	A4	A5	B	B1	B2	B3	C
NSX100/160/250	113	138	114	101	73	85	113	157	91	103	40
NSX400/630	163	211	164	151	122.5	138	163	189	122.5	138	60

ComPact NSX front-panel cutouts

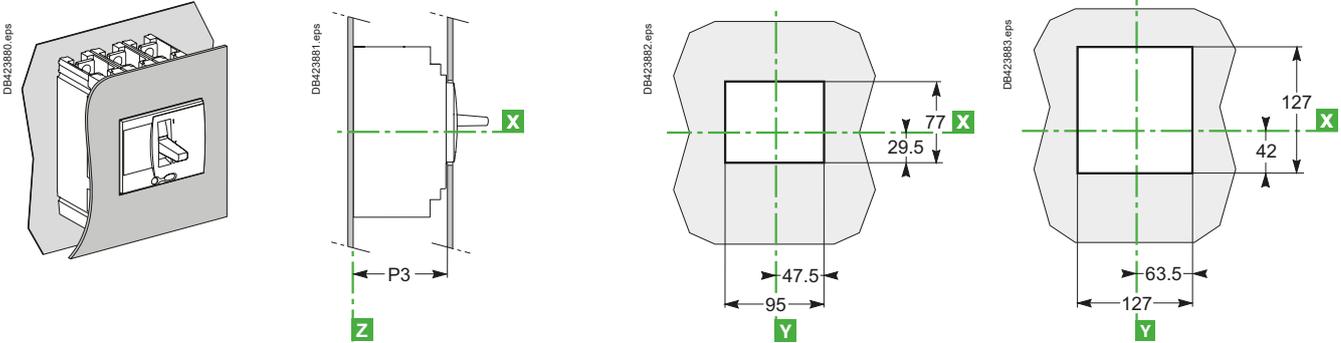
ComPact NSX100 to 630 fixed version

Bare sheet metal

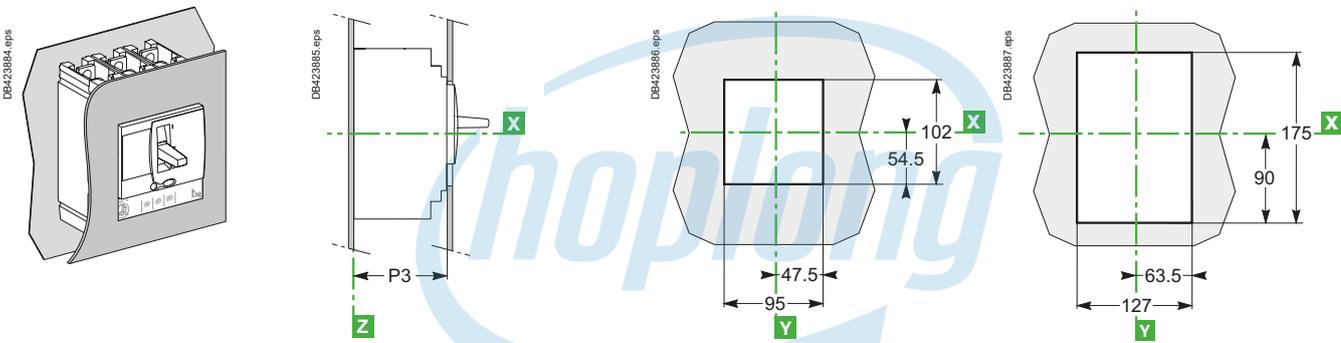
NSX100 to 250

NSX400/630

For toggle



For toggle with access to trip unit

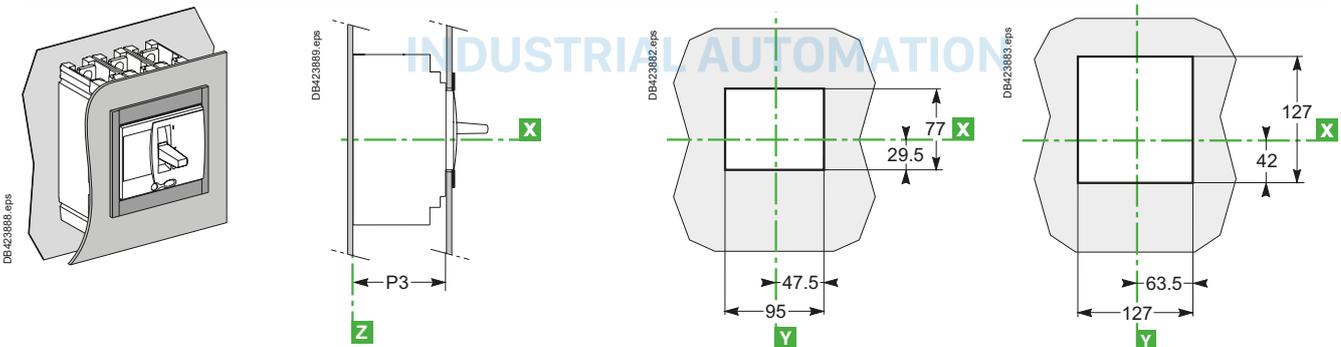


With IP30 front-panel escutcheon

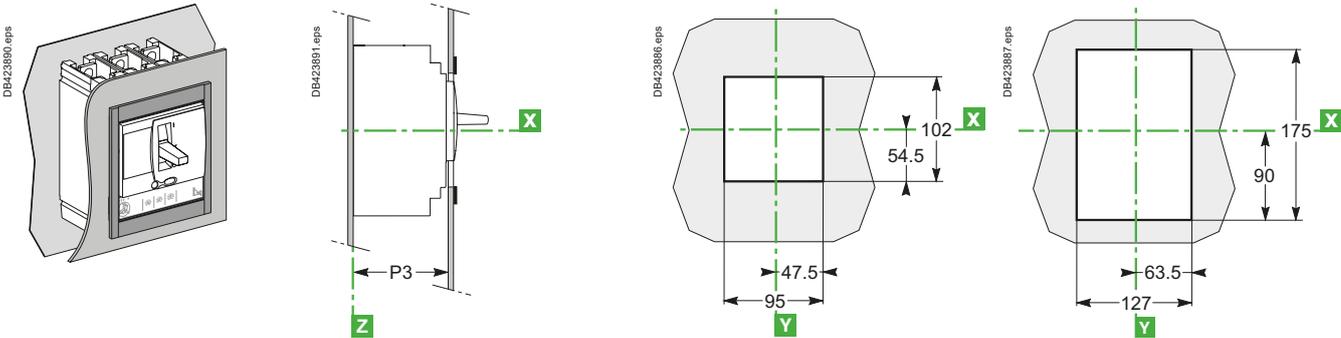
NSX100 to 250

NSX400/630

For toggle



For toggle with access to trip unit



E

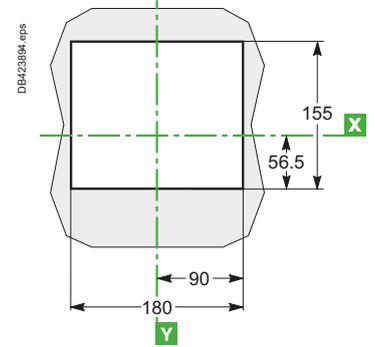
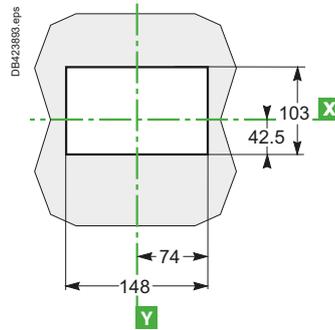
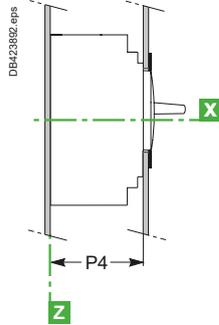
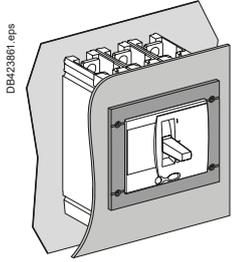
ComPact NSX front-panel cutouts

ComPact NSX100 to 630 fixed version

With IP40 front-panel escutcheon
For toggle

NSX100 to 250

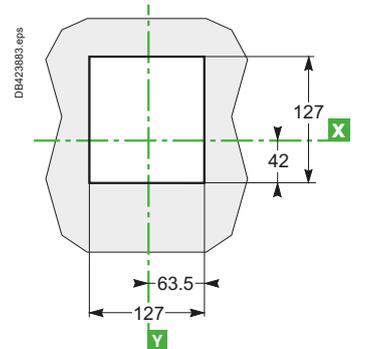
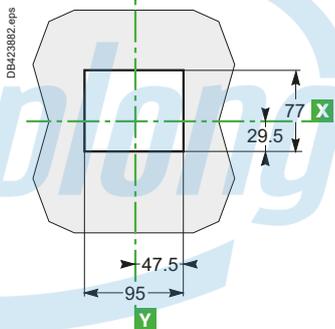
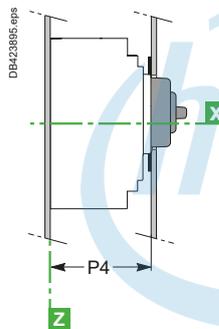
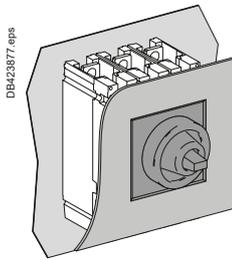
NSX400/630



With IP43 toggle cover
For toggle

NSX100 to 250

NSX400/630

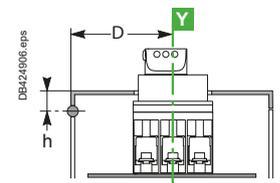


INDUSTRIAL AUTOMATION



Type	P3	P4
NSX100/160/250	88	89
NSX400/630	112	113

Note: door cutout dimensions are given for a device position in the enclosure where $D \geq 100 + (h \times 5)$ with respect to the door hinge.



ComPact NSX front-panel cutouts

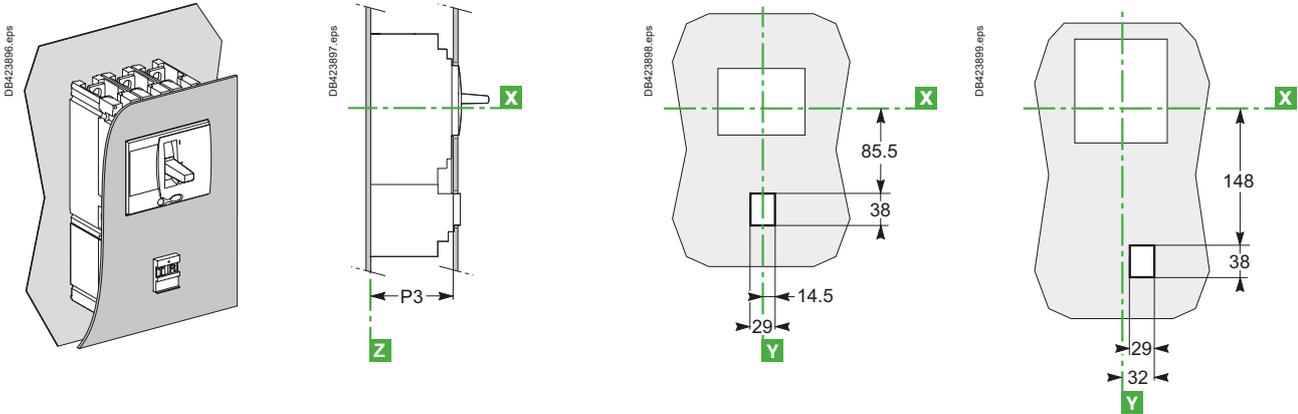
ComPact NSX100 to 630 Vigi add-on fixed version

Bare sheet metal

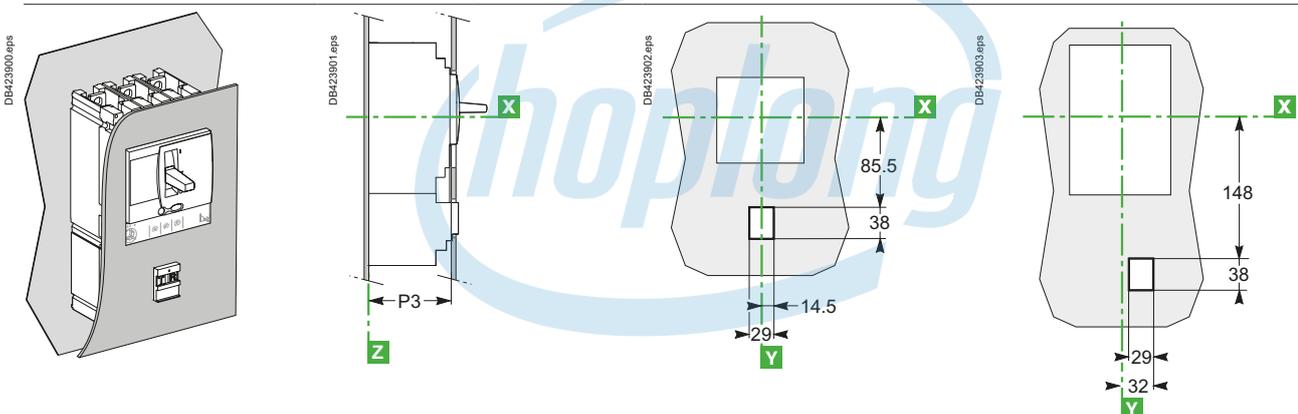
NSX100 to 250

NSX400/630

For toggle



For toggle with access to trip unit



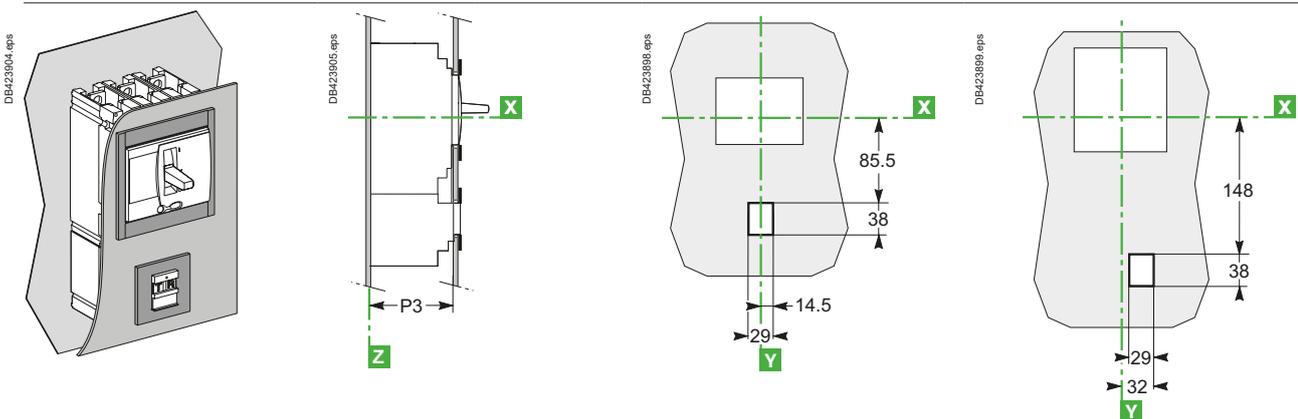
E

With IP30 front-panel escutcheon

NSX100 to 250

NSX400/630

For toggle



ComPact NSX front-panel cutouts

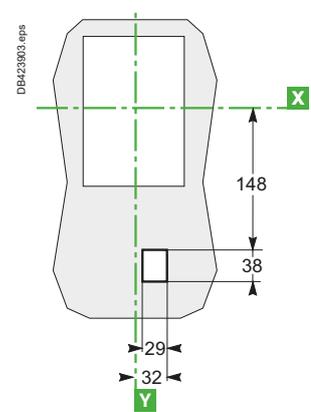
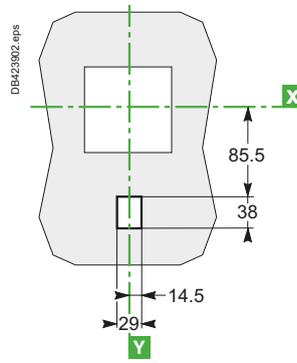
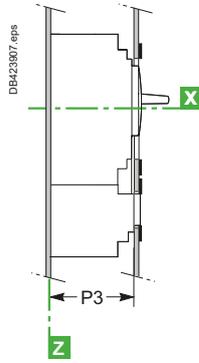
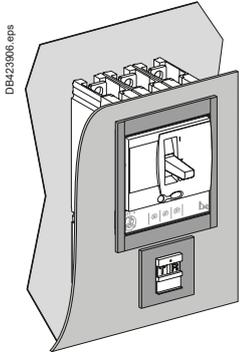
ComPact NSX100 to 630 Vigi add-on fixed version

With IP30 front-panel escutcheon

For toggle with access to trip unit

NSX100 to 250

NSX400/630

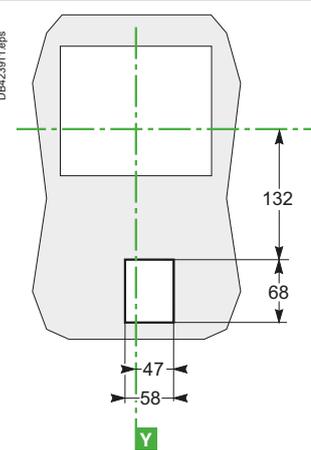
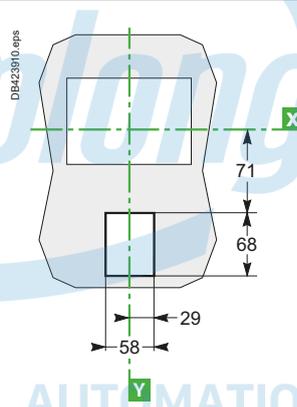
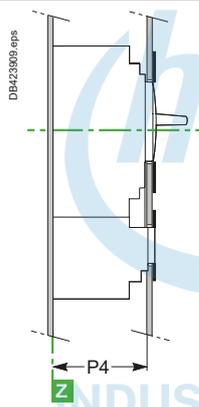
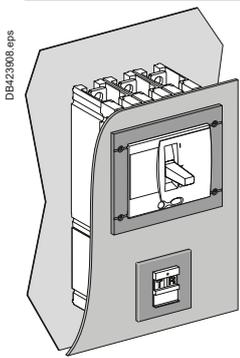


With IP40 front-panel escutcheon

For toggle

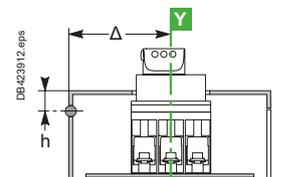
NSX100 to 250

NSX400/630



Type	P3	P4
NSX100/160/250	88	89
NSX400/630	112	113

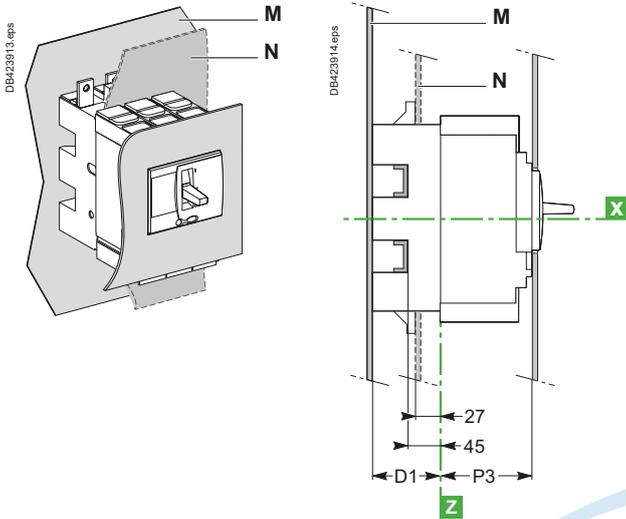
Note: door cutout dimensions are given for a device position in the enclosure where $\Delta \geq 100 + (h \times 5)$ with respect to the door hinge.



ComPact NSX front-panel cutouts

ComPact NSX100 to 630 plug-in and withdrawable versions

Plug-in version



Bare sheet metal

See ComPact NSX100 to 630 fixed version, [page E-56](#)

With IP30 front-panel escutcheon

See ComPact NSX100 to 630 fixed version, [page E-56](#)

With IP40 front-panel escutcheon

See ComPact NSX100 to 630 fixed version, [page E-57](#)

With toggle cover

See ComPact NSX100 to 630 fixed version, [page E-57](#)

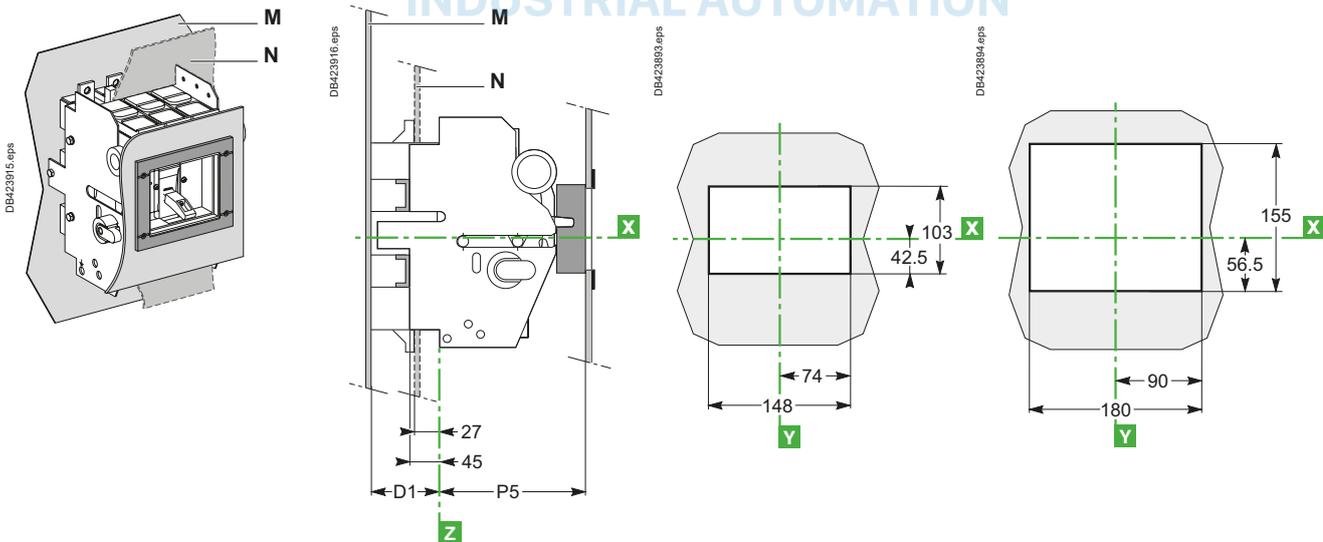
E

Withdrawable version

NSX100 to 250

NSX400/630

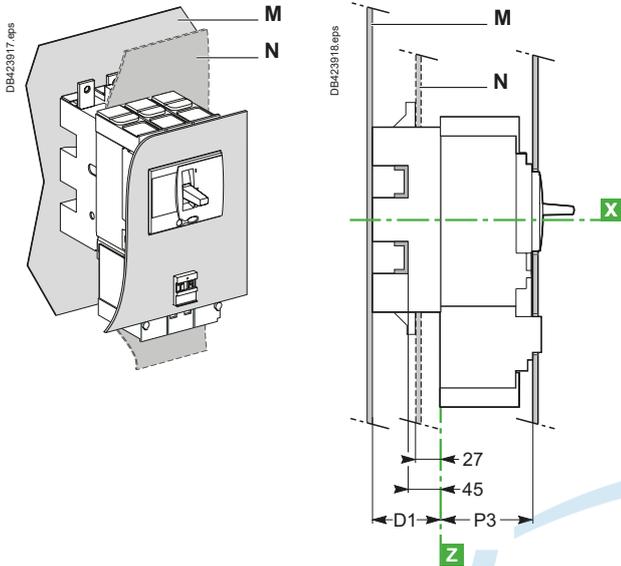
With protection collar and IP40 front-panel escutcheon



ComPact NSX front-panel cutouts

ComPact NSX100 to 630 Vigi add-on plug-in and withdrawable versions

Plug-in version



Bare sheet metal

See ComPact NSX100 to 630 fixed version, [page E-58](#)

With IP30 front-panel escutcheon

See ComPact NSX100 to 630 fixed version, [page E-58](#)

With IP40 front-panel escutcheon

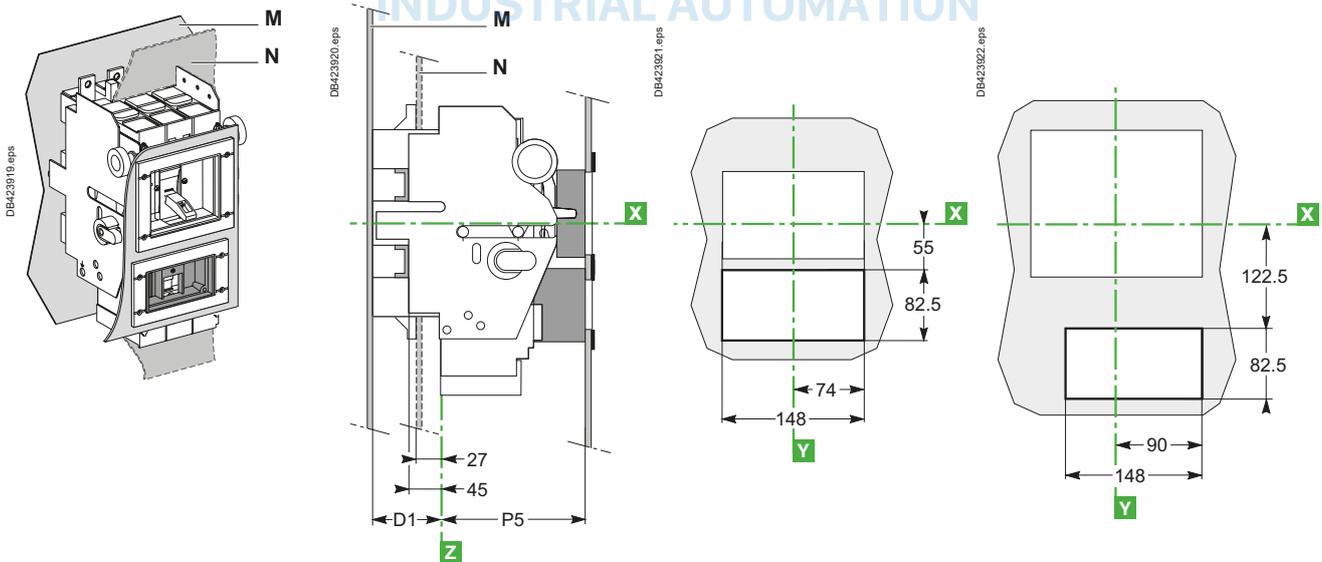
See ComPact NSX100 to 630 fixed version, [page E-59](#)

Withdrawable version

NSX100 to 250

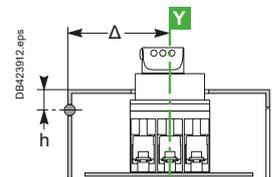
NSX400/630

With protection collar and IP40 front-panel escutcheon



Type	D1	P3	P5
NSX100/160/250	75	88	123
NSX400/630	100	112	147

Note: door cutout dimensions are given for a device position in the enclosure where $\Delta \geq 100 + (h \times 5)$ with respect to the door hinge.

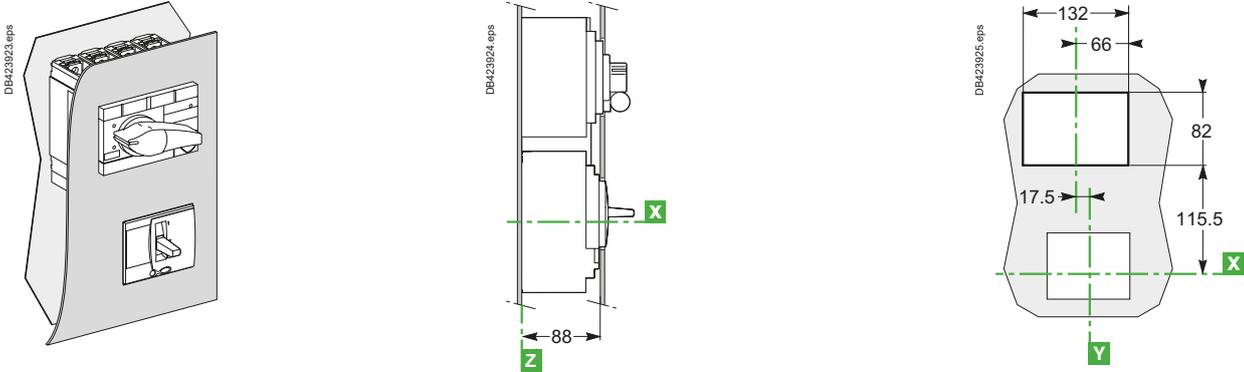


ComPact NSX front-panel cutouts

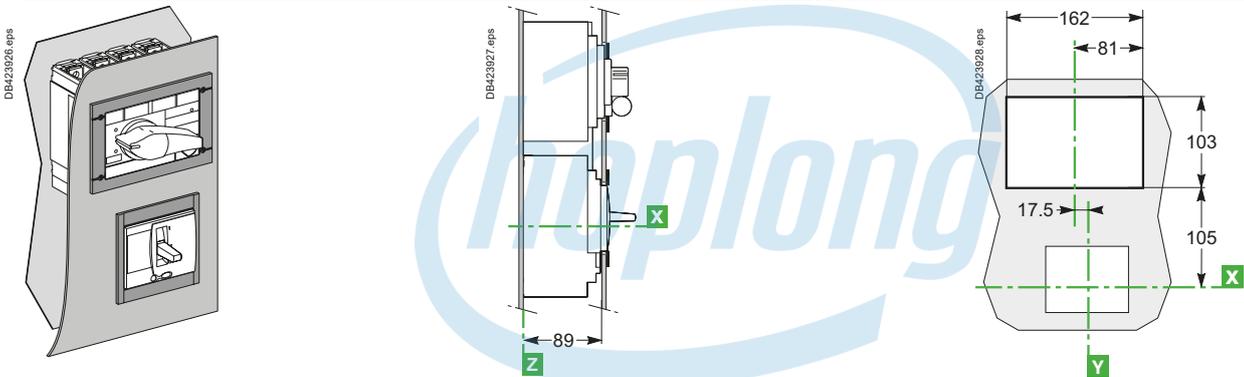
Visu function for ComPact NSX100 to 630 fixed version

ComPact NSX100 to 250 with ComPact INV100 to 250 Visu function

Bare sheet metal

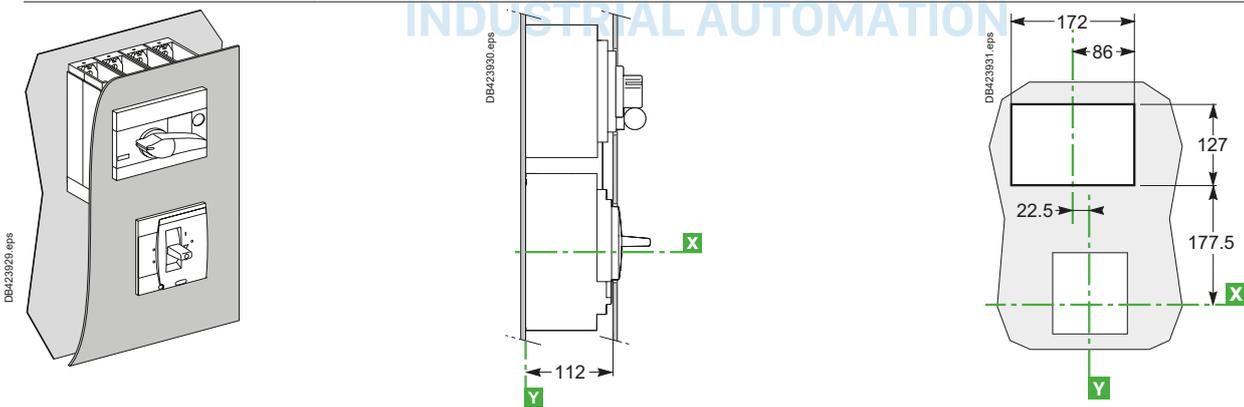


With IP40 front-panel escutcheon

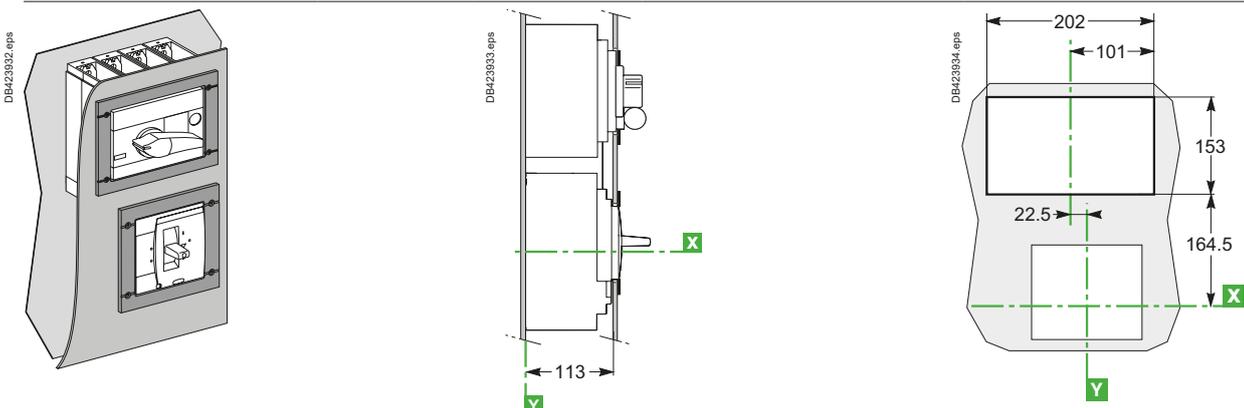


ComPact NSX400/630 with ComPact INV400 to 630 Visu function

Bare sheet metal



With IP40 front-panel escutcheon



ComPact NSX front-panel cutouts

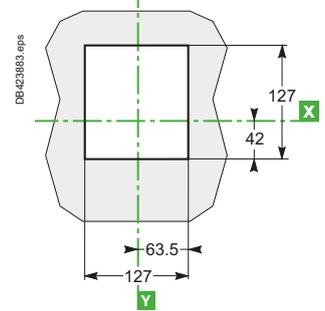
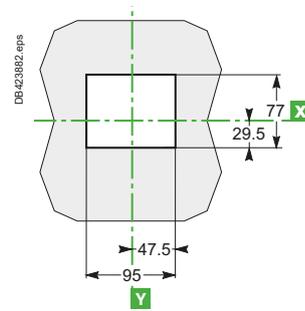
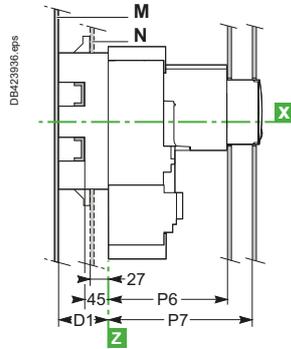
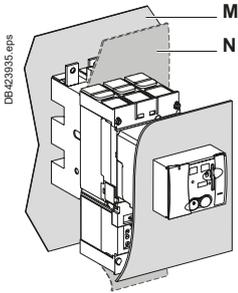
Motor mechanism module for ComPact NSX100 to 630 with/without Vigi add-on

Bare sheet metal

Fixed, plug-in or withdrawable circuit breaker

NSX100 to 250

NSX400/630

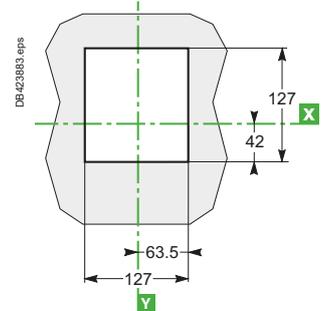
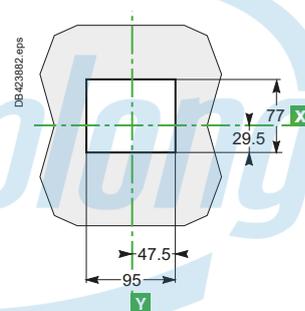
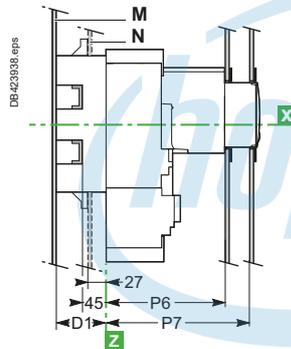
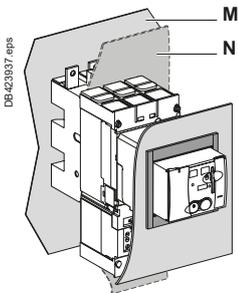


With IP30 front-panel escutcheon

Fixed, plug-in or withdrawable circuit breaker

NSX100 to 250

NSX400/630

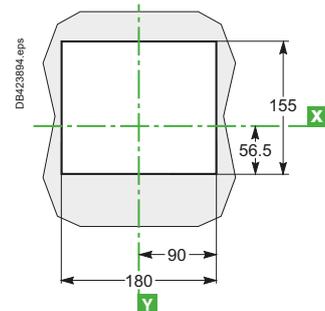
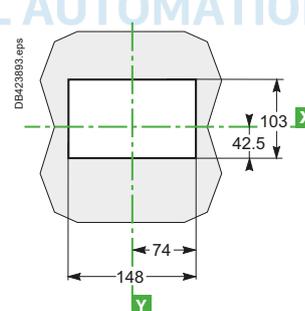
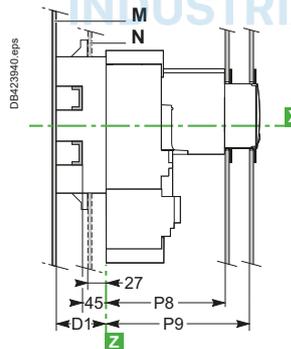
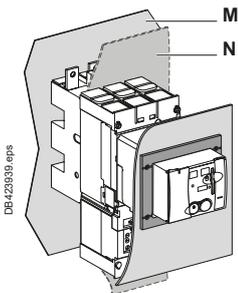


With IP40 front-panel escutcheon

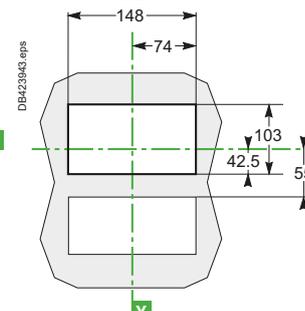
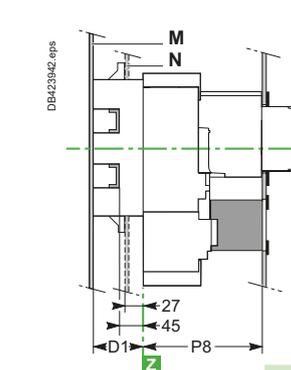
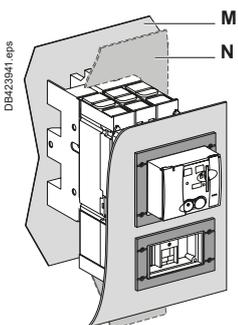
Fixed, plug-in or withdrawable circuit breaker without access to Vigi add-on

NSX100 to 250

NSX400/630



Fixed or plug-in circuit breaker with access to Vigi add-on



Type	D1	P6 ^[1]	P7 ^[2]	P8 ^[1]	P9 ^[2]
NSX100/160/250	75	145	177	146	178

[1] Plug-in version.

[2] Withdrawable version.

ComPact NSX front-panel cutouts

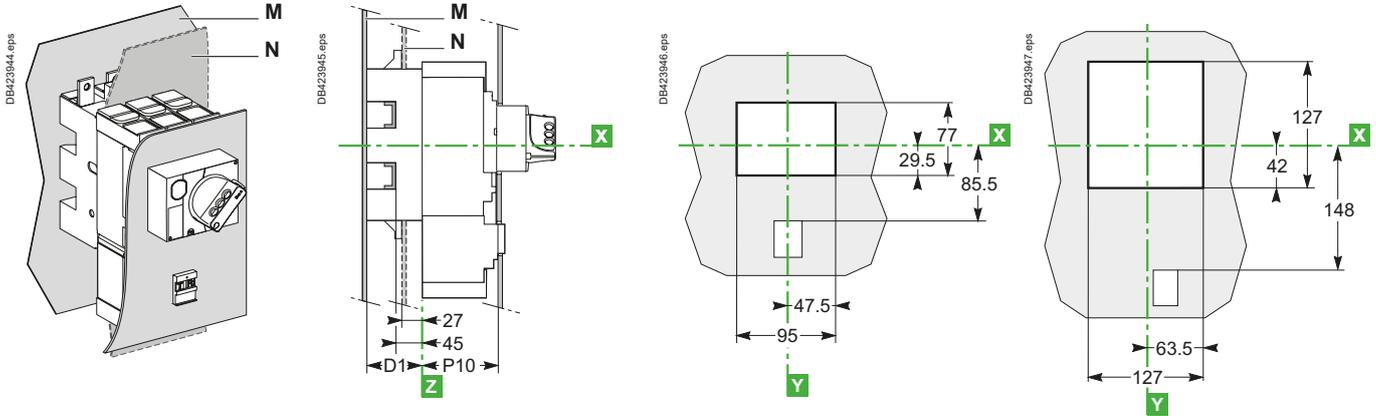
Direct rotary handle for ComPact NSX100 to 630 with/without Vigi add-on

Fixed or plug-in circuit breakers

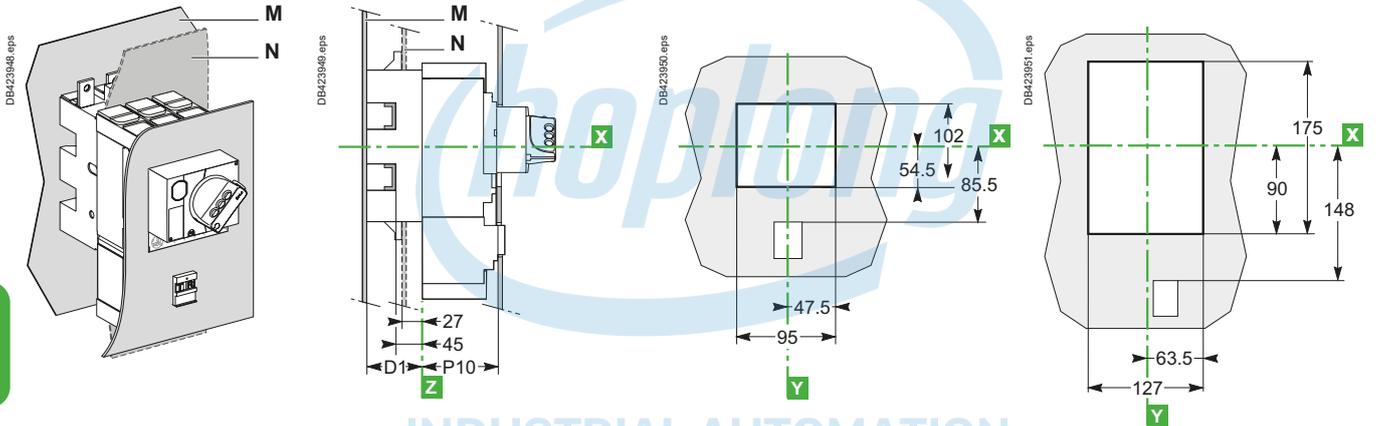
NSX100 to 250

NSX400/630

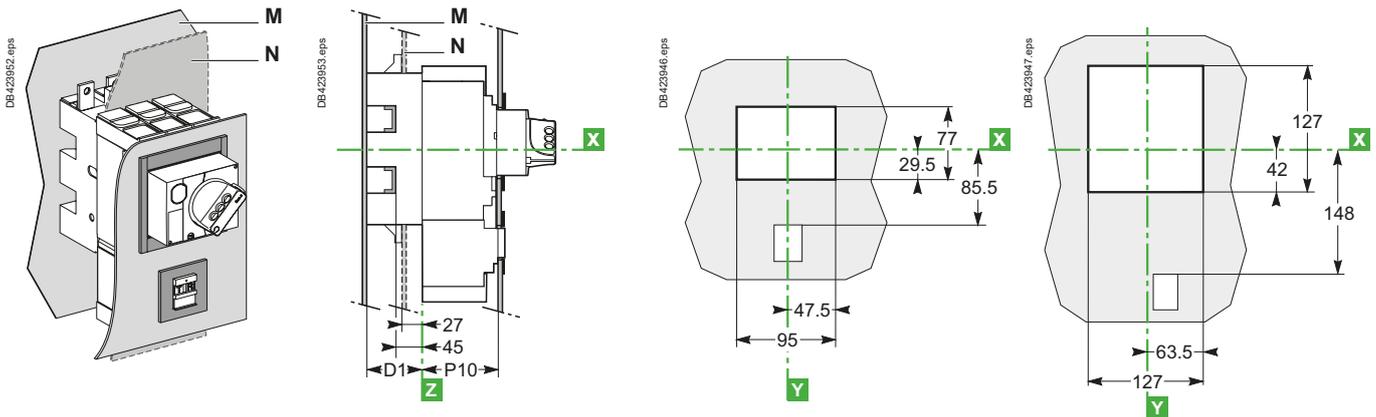
Bare sheet metal



Bare sheet metal with access to the trip unit



With IP30 front-panel escutcheon



E

INDUSTRIAL AUTOMATION

ComPact NSX front-panel cutouts

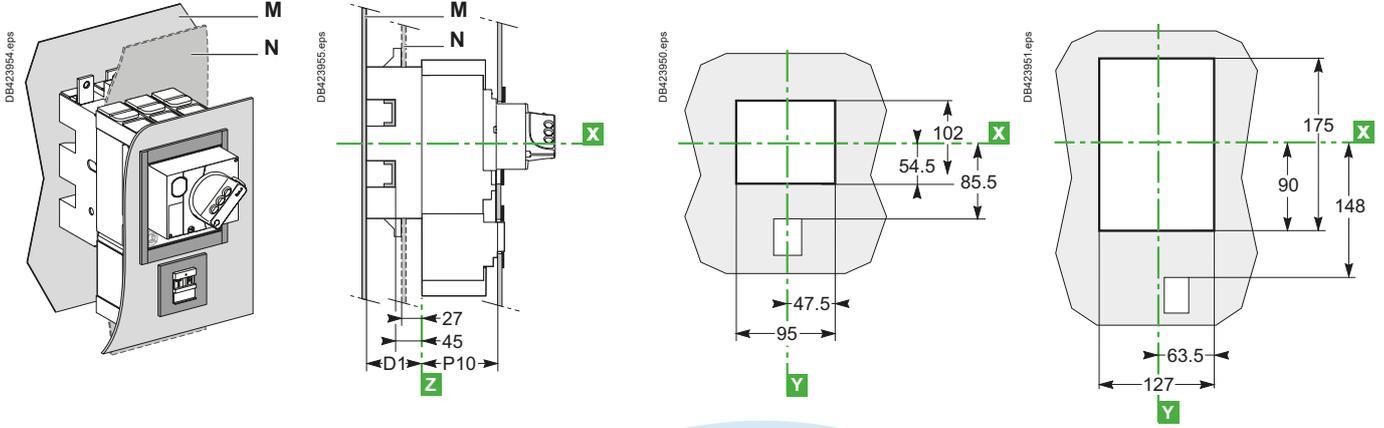
Direct rotary handle for ComPact NSX100 to 630 with/without Vigi add-on

Fixed or plug-in circuit breakers

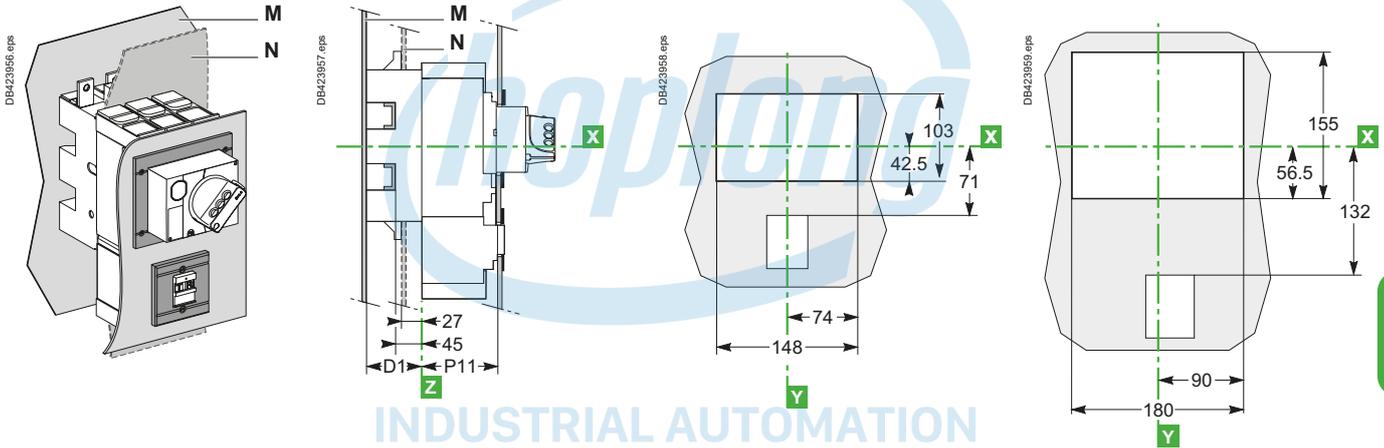
NSX100 to 250

NSX400/630

With IP30 front-panel escutcheon with access to the trip unit



With IP40 front-panel escutcheon

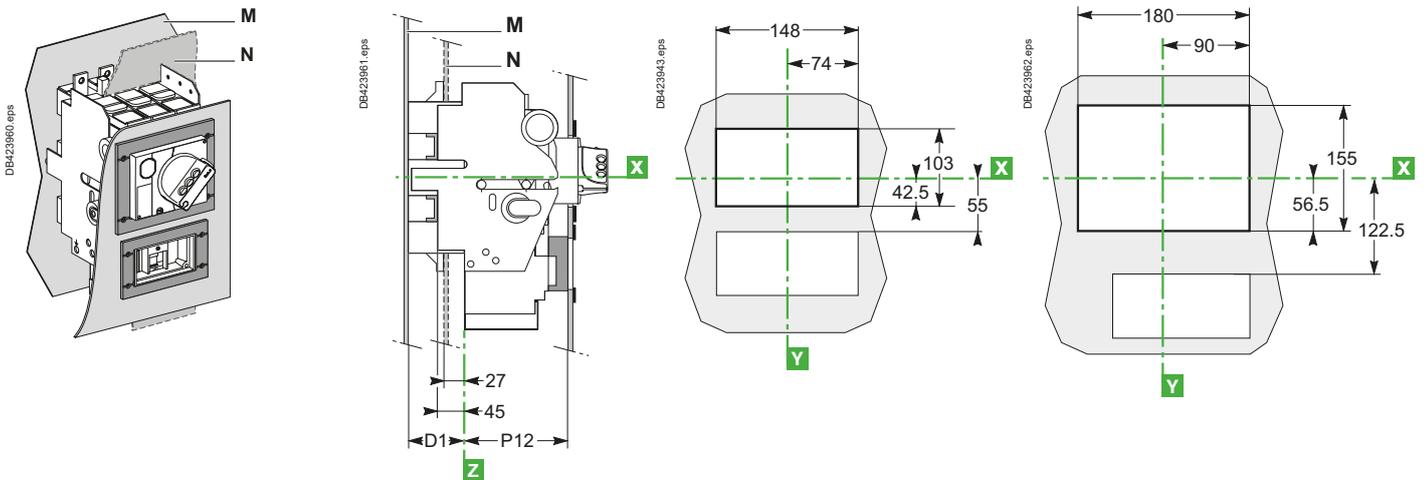


Fixed or withdrawable circuit breakers

NSX100 to 250

NSX400/630

With IP40 front-panel escutcheon

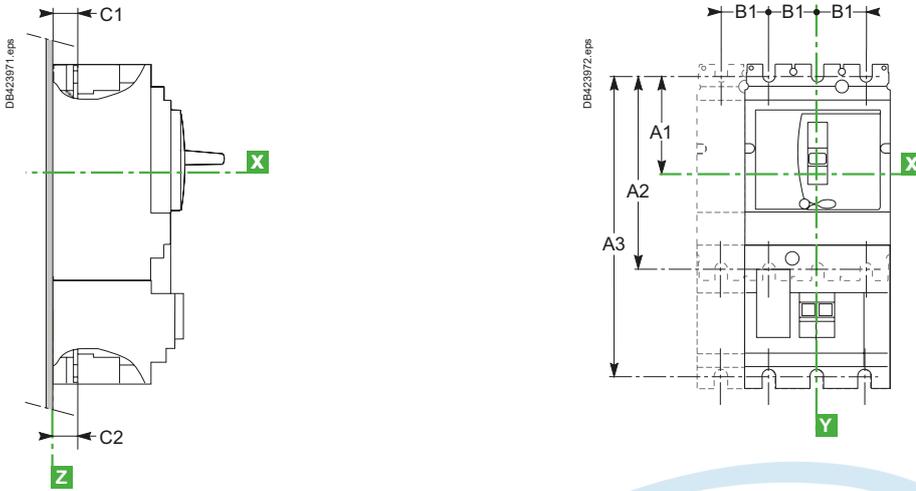


Type	D1	P10	P11	P12
NSX100/160/250	75	89	90	123
NSX400/630	100	112	113	147

ComPact NSX power connections

ComPact NSX100 to 630 with/without Vigi add-on fixed version

Connection locations

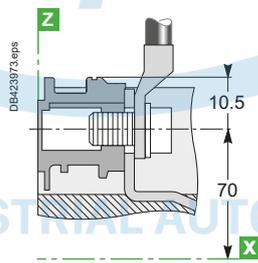
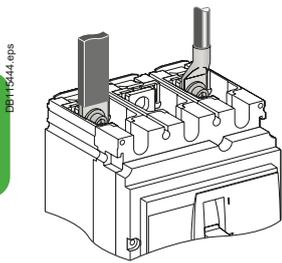


Type	A1	A2	B1	C1	C2	Type	A1	A3	B1	C1	C2
NSX100/160	70	140	35	19.5	19.5	NSX100/160 + Vigi	70	215	35	19.5	21.5
NSX250	70	140	35	21.5	19.5	NSX250 + Vigi	70	215	35	21.5	21.5
NSX400/630	113.5	227	45	26	26	NSX400/630 + Vigi	113.5	327	45	26	26

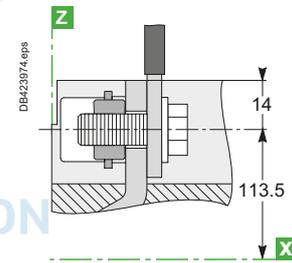
Front connection without accessories

NSX100 to 250

NSX400/630



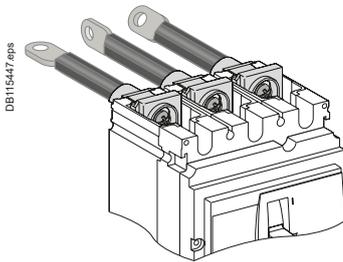
Cables with lugs/bars



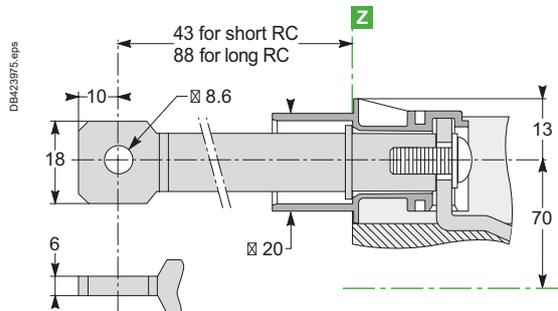
Bars/cables with lugs

Connection with accessories

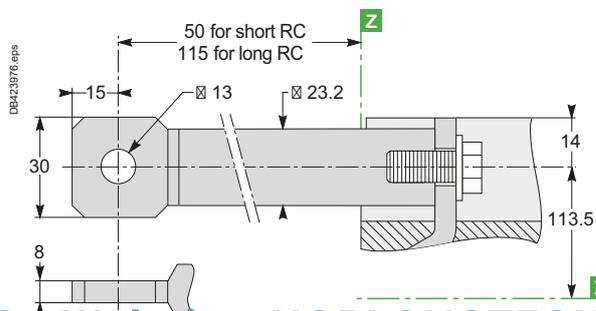
Long and short rear connectors



NSX100 to 250



NSX400/630



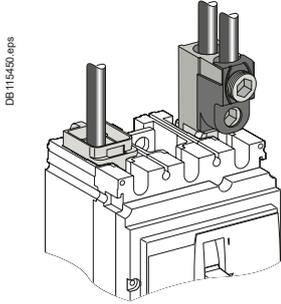
ComPact NSX power connections

ComPact NSX100 to 630 with/without Vigi add-on fixed version

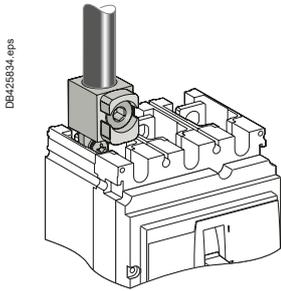
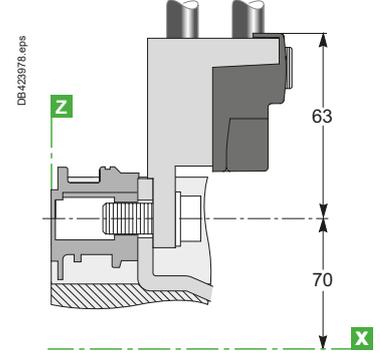
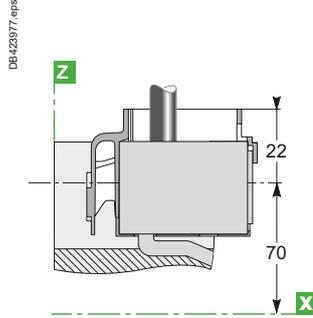
Connection with accessories

Bare-cable connectors

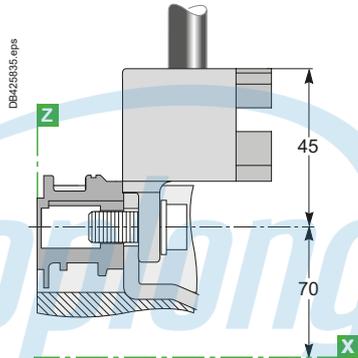
NSX100 to 250



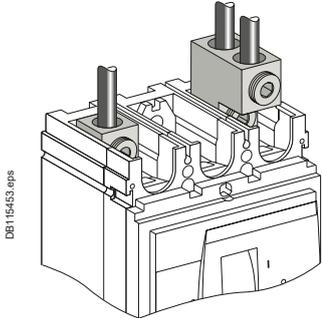
DB115430 eps



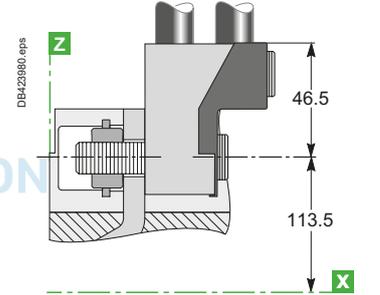
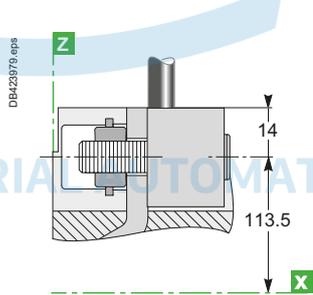
DB423954 eps



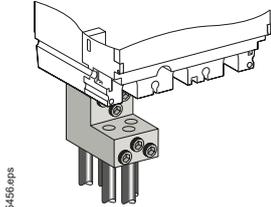
NSX400/630



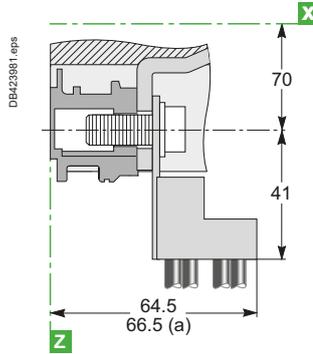
DB115453 eps



Distribution connectors (for NSX100 to 250 only)



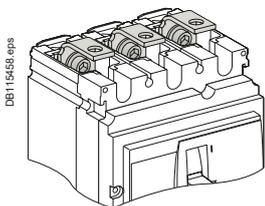
DB115456 eps



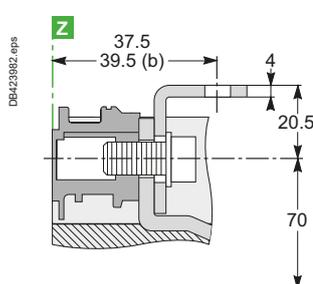
[a] Vigi add-on or NSX250.

Right-angle terminal extensions (upstream only) NSX100 to 250

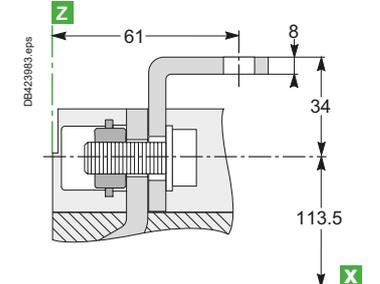
NSX400/630



DB115465 eps



[b] NSX250.

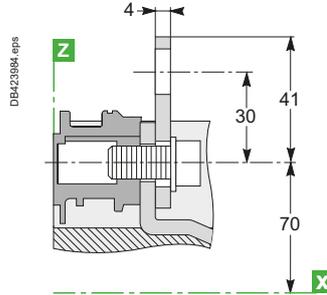
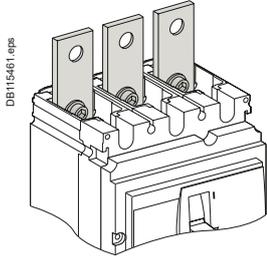


ComPact NSX power connections

ComPact NSX100 to 630 with/without Vigi add-on fixed version

Connection with accessories

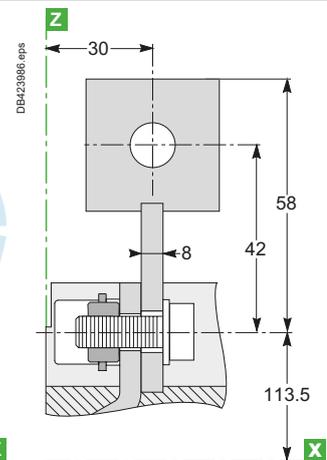
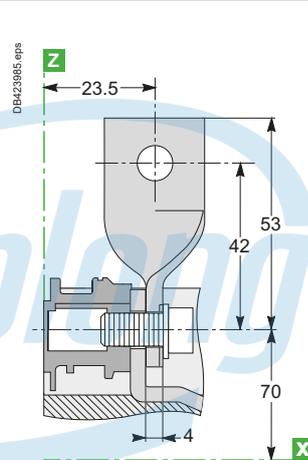
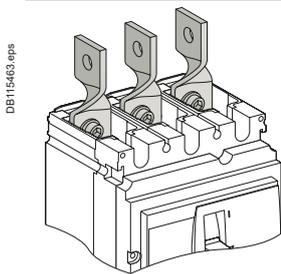
Straight terminal extensions (for NSX100 to 250 only)



Edgewise terminal extensions

NSX100 to 250

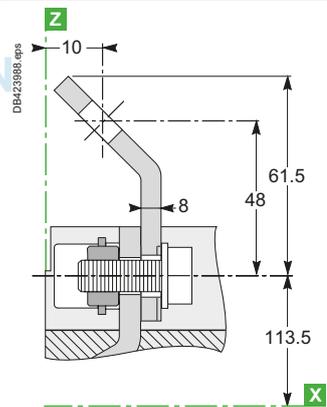
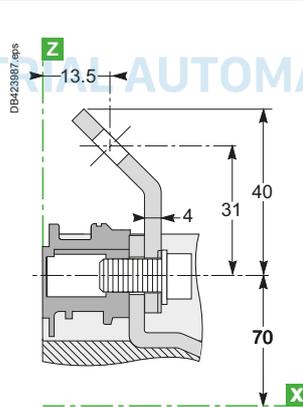
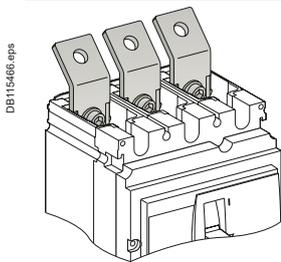
NSX400/630



45° terminal extensions

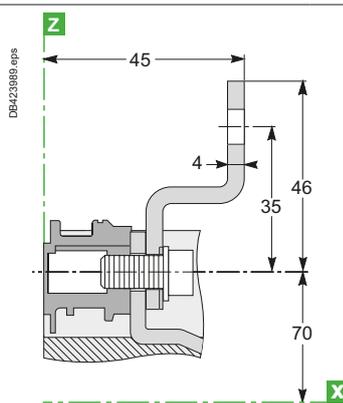
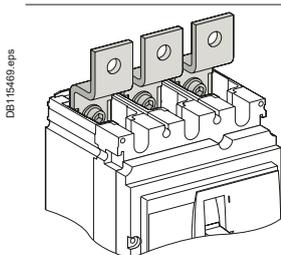
NSX100 to 250

NSX400/630

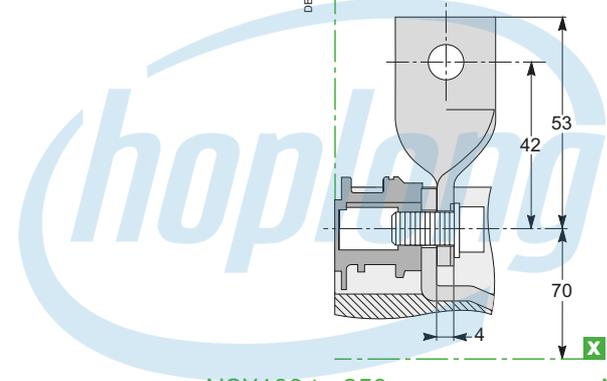


Double-L terminal extensions

NSX100 to 250



E



INDUSTRIAL AUTOMATION

ComPact NSX power connections

ComPact NSX100 to 630 with/without Vigi add-on fixed version

Connection with accessories

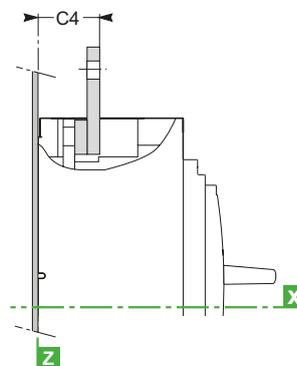
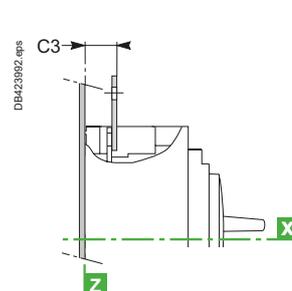
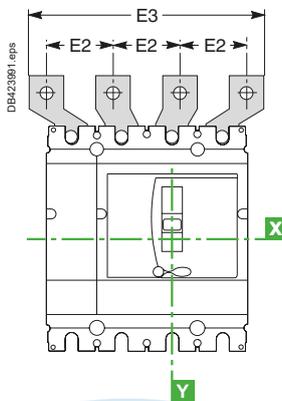
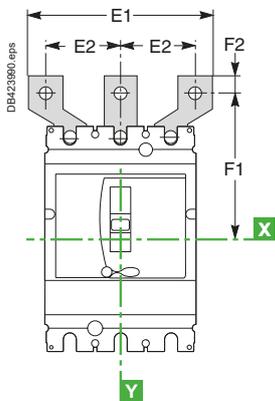
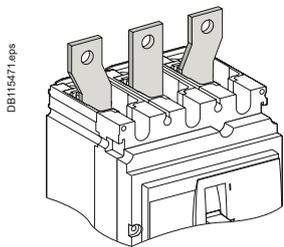
Spreaders

3P

4P

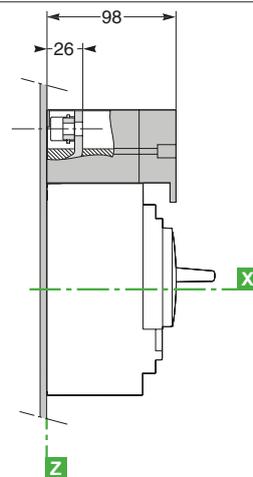
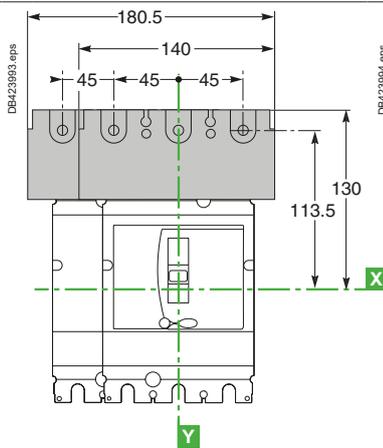
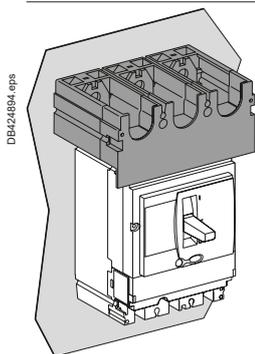
NSX100 to 250

NSX400/630



Type	C3	C4	E1	E2	E3	F1	F2
NSX100/160	23.5	-	114	45	159	100	11
NSX250	25.5	-	114	45	159	100	11
NSX400/630	-	44	135	52.5	187.5	152.5	15
			170	70	240	166	15

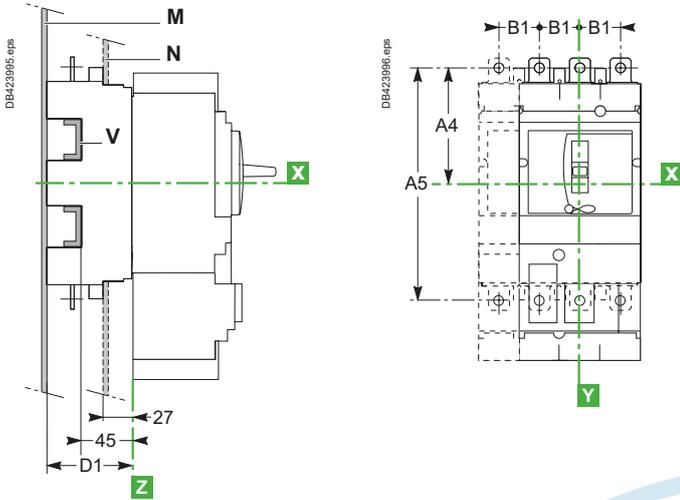
One-piece spreader (for NSX100 to 250 only)



ComPact NSX power connections

ComPact NSX100 to 630 with/without Vigi add-on plug-in and withdrawable versions

Connection locations



Type	A4	A5	B1	D1
NSX100 to 250	100	200	35	75
NSX400/630	156.5	313	45	100

Note :

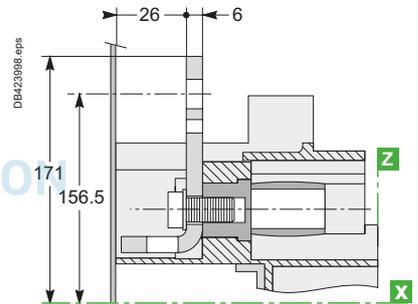
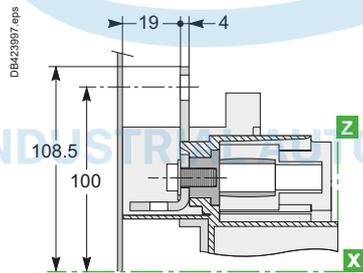
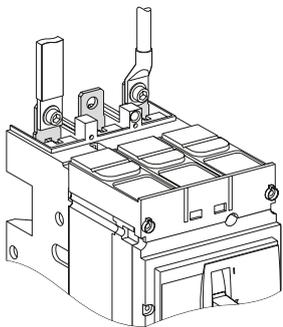
- for mounting on a backplate, the insulating screen supplied with the plug-in base must be installed.
- for withdrawable versions, terminal shields are recommended.

Connection without accessories

Front connection: mounting on backplate (M) or rails (V)

NSX100 to 250

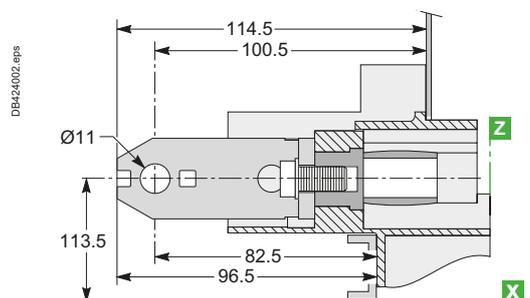
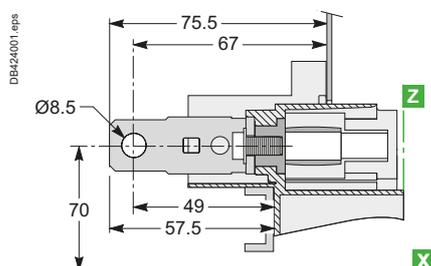
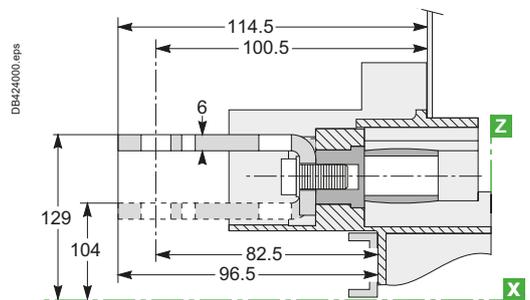
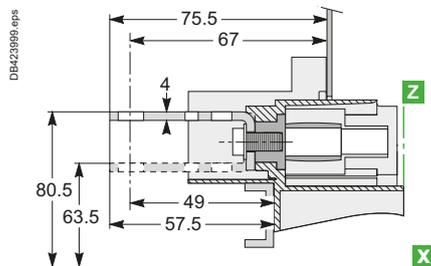
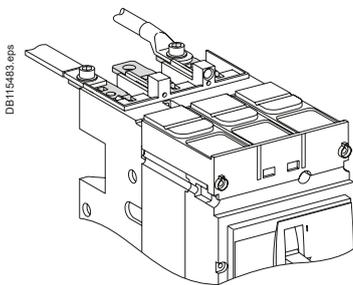
NSX400/630



Rear connection: mounting through front panel (N) or on rails (V)

NSX100 to 250

NSX400/630



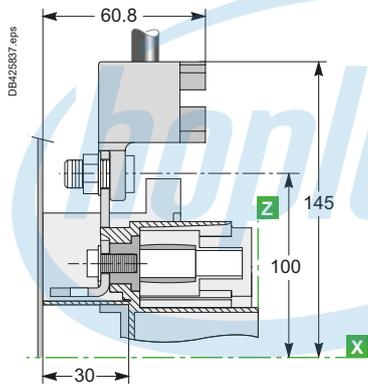
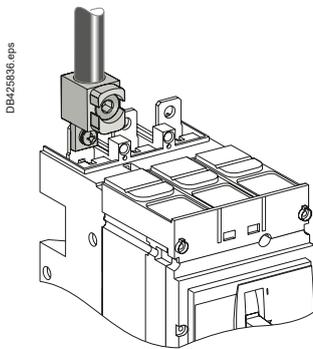
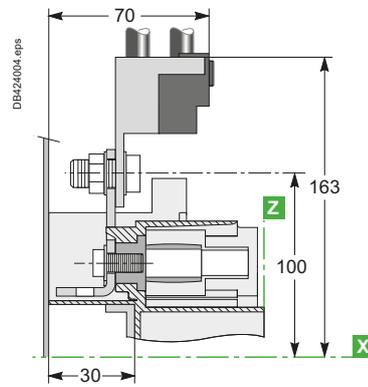
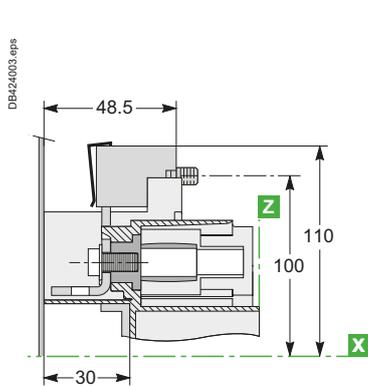
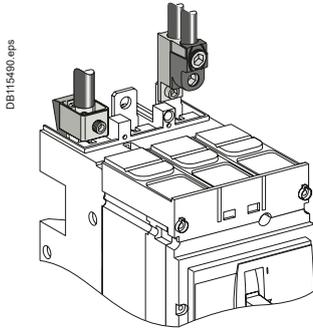
ComPact NSX power connections

ComPact NSX100 to 630 with/without Vigi add-on plug-in and withdrawable versions

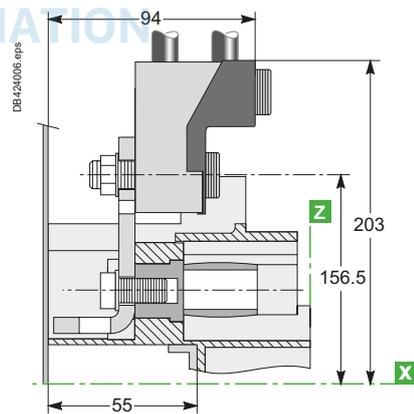
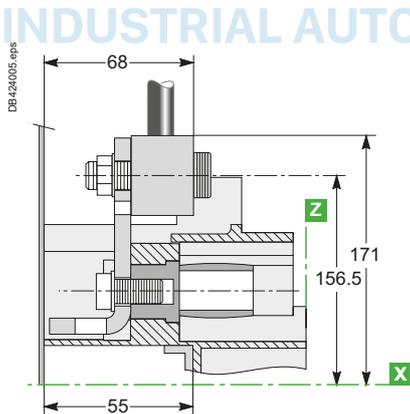
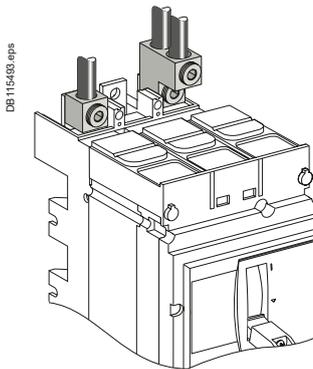
Connection with accessories

Bare-cable connectors: mounting on backplate (M) or rails (V)

NSX100 to 250

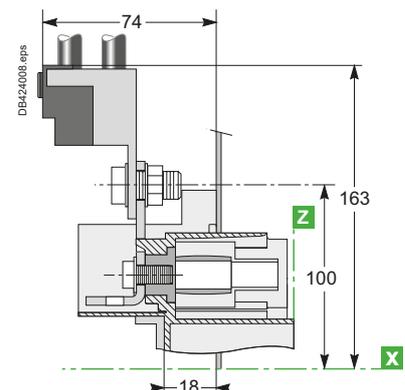
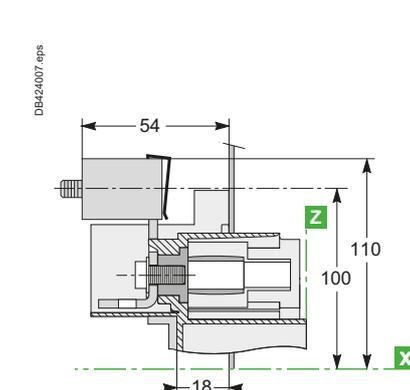
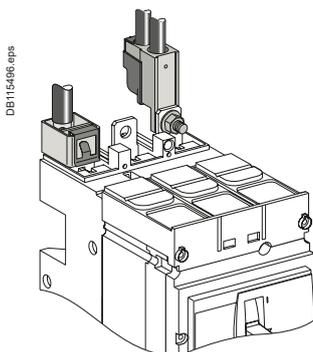


NSX400/630



Bare-cable connectors: mounting through front panel (N) or on rails (V)

NSX100 to 250

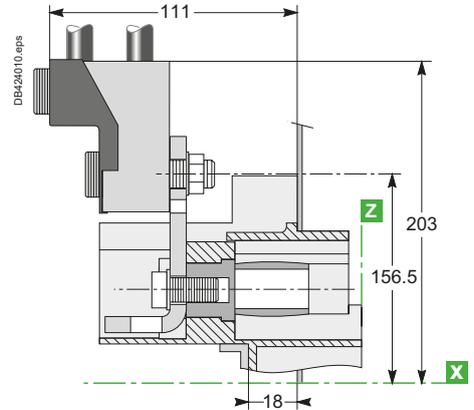
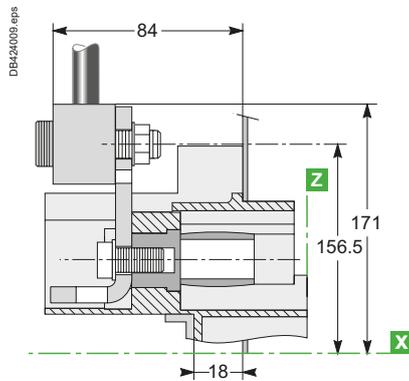
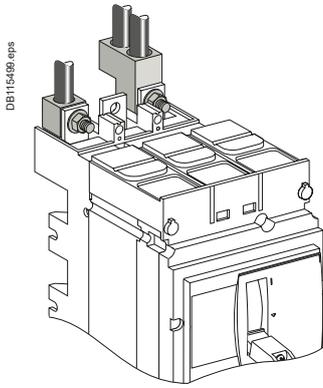


ComPact NSX power connections

ComPact NSX100 to 630 with/without Vigi add-on plug-in and withdrawable versions

Bare-cable connectors: mounting through front panel (N) or on rails (V)

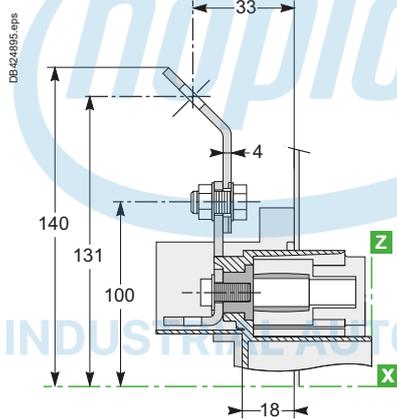
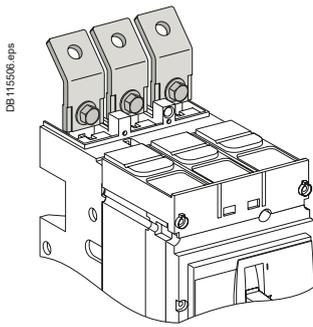
NSX400/630



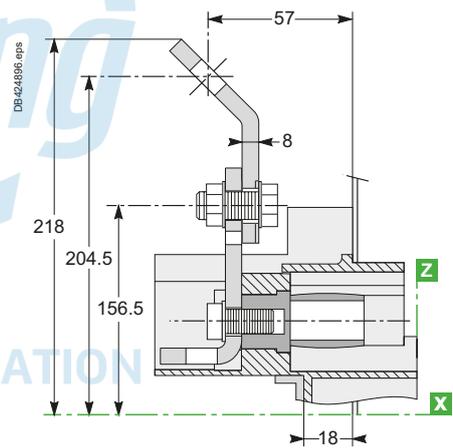
Connection with accessories

45° extensions: mounting through front panel (N) or on rails (V)

NSX100 to 250

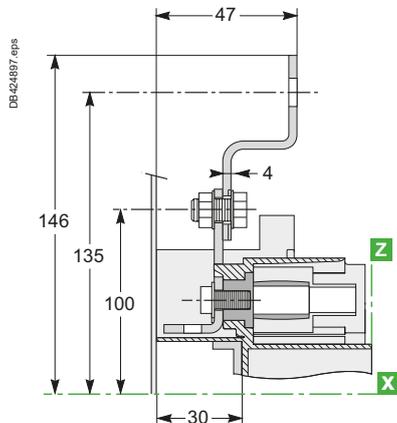
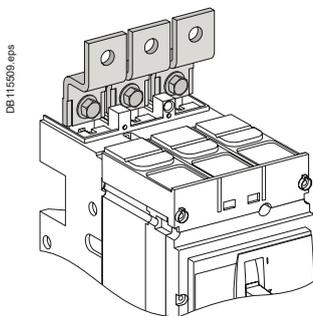


NSX400/630



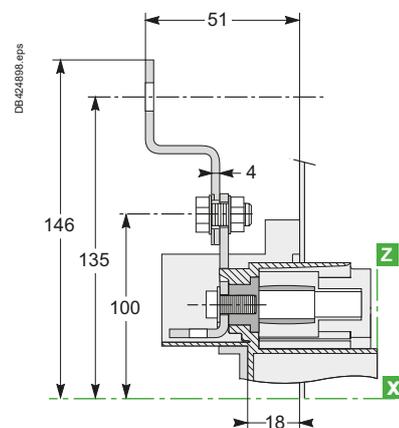
Double-L extensions: mounting on backplate (M) or rails (V)

NSX100 to 250



Double-L extensions: mounting through front panel (N) or on rails (V)

NSX100 to 250



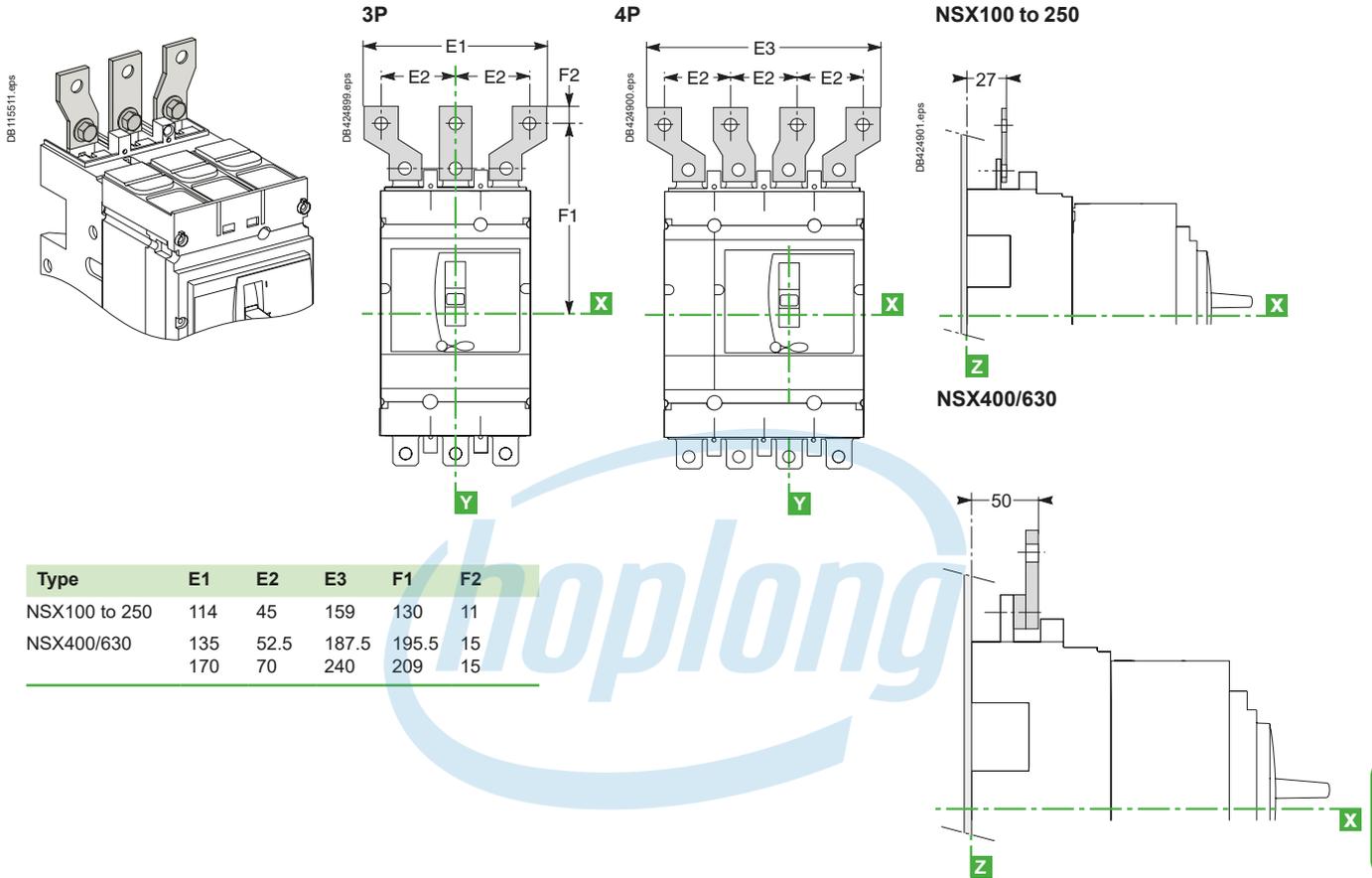
E

ComPact NSX power connections

ComPact NSX100 to 630 with/without Vigi add-on plug-in and withdrawable versions

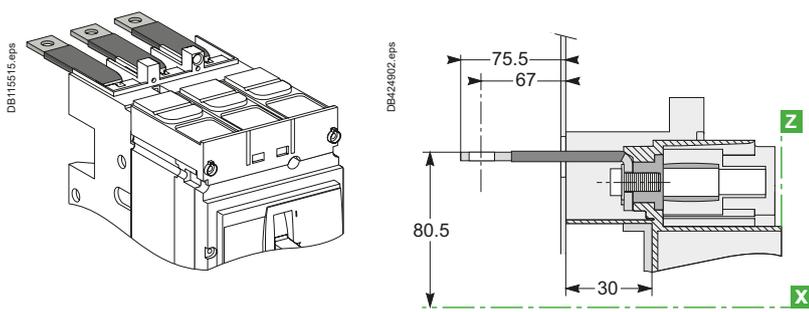
Connection with accessories

Spreaders: mounting on backplate (M) or rails (V)

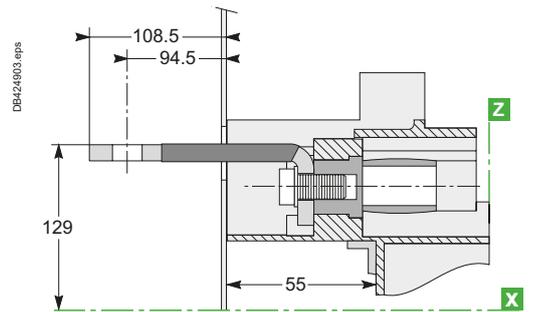


Long insulated rear connectors: mounting on backplate (M) or rails (V)

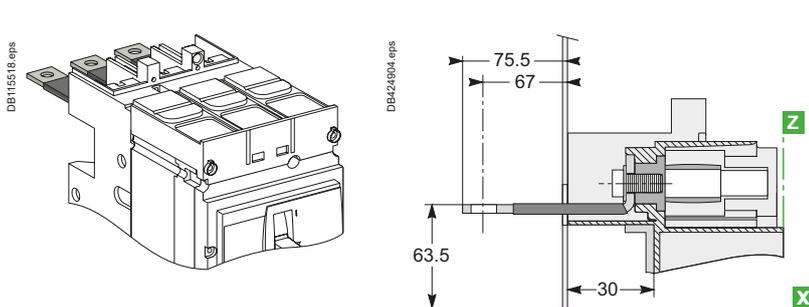
Exterior-mounted rear connectors NSX100 to 250



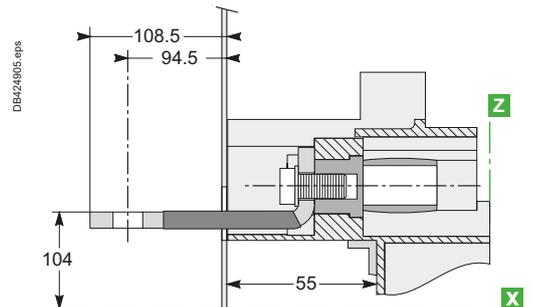
NSX400/630



Interior-mounted rear connectors NSX100 to 250



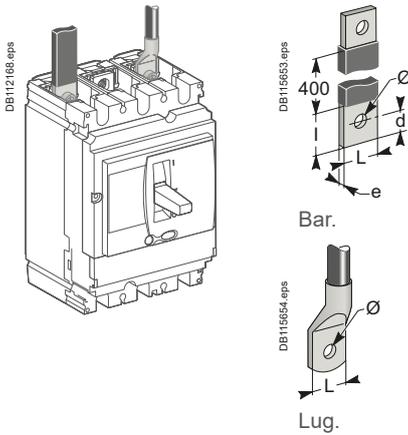
NSX400/630



Long, insulated connectors are mandatory.

ComPact NSX power connections

Connection of insulated bars or cables with lugs to ComPact NSX100 to 630 with/without Vigi add-on



Direct connection for NSX100 to 630

Dimensions		NSX100	NSX160/250	NSX400/630
Bars	L (mm)	≤ 25	≤ 25	≤ 32
	l (mm)	d + 10	d + 10	d + 15
	d (mm)	≤ 10	≤ 10	≤ 15
	e (mm)	≤ 6	≤ 6	3 ≤ e ≤ 10
	Ø (mm)	6.5	8.5	10.5
Lugs	L (mm)	≤ 25	≤ 25	≤ 32
	Ø (mm)	6.5	8.5	10.5
Torque (Nm) [1]		10	15	50
Torque (Nm) [2]		5/5	5/5	20/11
Torque (Nm) [3]		8	8	20

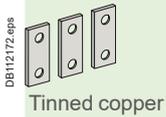
[1] Tightening torque on the circuit breaker for lugs or bars.

[2] Tightening torque on fixed devices for rear connectors//tightening torque on plug-in or withdrawable devices for power connectors.

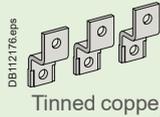
[3] Tightening torque on the plug-in base for terminal extensions.

Accessories for NSX100 to 250

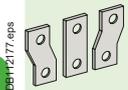
Straight terminal extensions



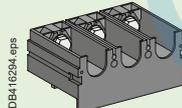
Double-L terminal extensions



Spreaders: separate parts



one-piece spreader



Tinned copper

For U > 600 V, the mandatory insulation kit is not compatible with spreaders made up of separate parts. The one-piece spreader must be used.

Connection with accessories for NSX100 to 250 (60228)

Pole pitch		With spreaders or terminal extensions		
		NSX100	NSX160/250	
Without spreaders	35 mm			
	45 mm			
	Dimensions	L (mm)	≤ 25	≤ 25
		l (mm)	20 ≤ l ≤ 25	20 ≤ l ≤ 25
		d (mm)	≤ 10	≤ 10
e (mm)		≤ 6	≤ 6	
Lugs	L (mm)	≤ 25	≤ 25	
	Ø (mm)	6.5	8.5	
Torque (Nm) [1]		10	15	
Torque (Nm) [2]		5	5	

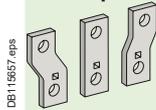
[1] Tightening torque on the circuit breaker for spreaders or terminal extensions.

[2] Tightening torque on the plug-in base for spreaders or terminal extensions.

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

Accessories for NSX400 and 630

Spreaders made up of separate parts for 52.5 and 70 mm pitch



Tinned copper

For U > 600 V, use of the 52.5 mm pitch spreaders requires a specific insulation kit. The 70 mm pitch spreaders may not be used.

Connection with accessories for NSX400 and 630 (60228)

Pole pitch		With spreaders		With terminal extensions	
Without spreaders		45 mm			
With spreaders		52.5 or 70 mm			
Dimensions	L (mm)	≤ 40	≤ 32		
	l (mm)	d + 15	30 ≤ l ≤ 34		
	d (mm)	≤ 20	≤ 15		
	e (mm)	3 ≤ e ≤ 10	3 ≤ e ≤ 10		
	Ø (mm)	12.5	10.5		
	Ø (mm)	12.5	10.5		
Torque (Nm) [1]		50		50	
Torque (Nm) [2]		20		20	

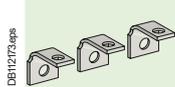
[1] Tightening torque on the circuit breaker for spreaders or terminal extensions.

[2] Tightening torque on the plug-in base for spreaders or terminal extensions.

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

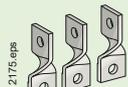
Accessories for NSX100 to 630

Right-angle terminal extensions



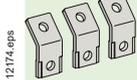
Tinned copper
To be mounted on upstream side.

Edgewise terminal extensions

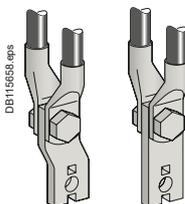


Tinned copper

45° terminal extensions



Tinned copper

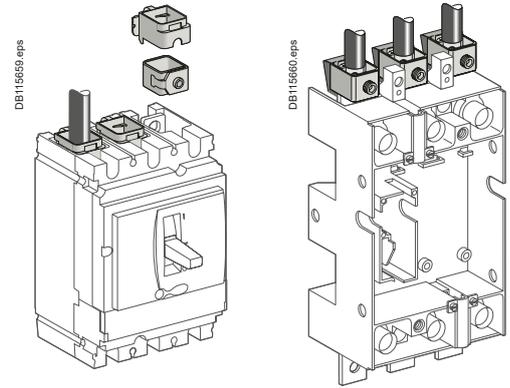
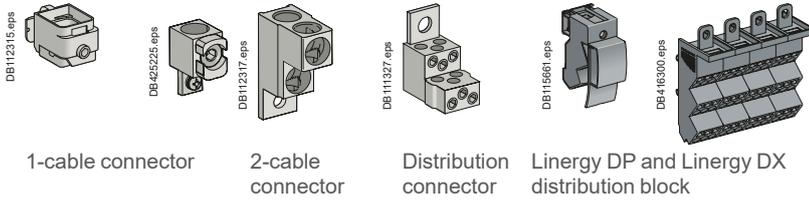


Mounting detail: 2 cables with lugs.

ComPact NSX power connections

Connection of bare cables to ComPact NSX100 to 630 with/without Vigi add-on

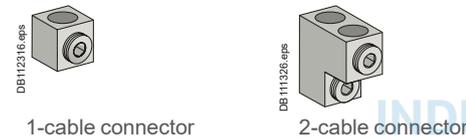
Connection for NSX100 to 250



	1-cable connector	Steel ≤ 160 A	Aluminium ≤ 250 A		
	L (mm)	25	25		
	S (mm ²) Cu / Al	1.5 to 95 [1]	25 to 50	70 to 95	120 to 240 150 max. flex.
	Torque (Nm)	12	20	26	31
	2-cable connector				
	L (mm)	25 or 50			
	S (mm ²) Cu / Al	2 x 50 to 2 x 120			
	Torque (Nm)	22			
	6-cable distribution connector (copper or aluminium)				
	L (mm)	15 or 30			
	S (mm ²) Cu / Al	1.5 to 6 [1]	8 to 35		
	Torque (Nm)	4	6		
	Linergy DX and Linergy DP distribution block (6 or 9 cables)				
	L (mm)	12	16		
	S (mm ²) Cu / Al	6 x 4 to 10	3 x 6 to 16		

[1] For flexible cables from 1.5 to 4 mm², connection with crimped or self-crimping ferrules.

Connection for NSX400 and 630



	1-cable connector	2-cable connector
	L (mm)	30
	S (mm ²) Cu / Al	35 to 300 rigid 240 max. flex.
	Torque (Nm)	31

Conductor materials and electrodynamic stresses

ComPact NSX circuit breakers can be connected indifferently with bare-copper, tinned-copper and tinned-aluminium conductors (flexible or rigid bars, cables). In the event of a short-circuit, thermal and electrodynamic stresses will be exerted on the conductors. They must therefore be correctly sized and held in place by supports.

Electrical connection points on switchgear devices (switch-disconnectors, contactors, circuit breakers, etc.) should not be used for mechanical support. Any partition between upstream and downstream connections of the device must be made of non-magnetic material.

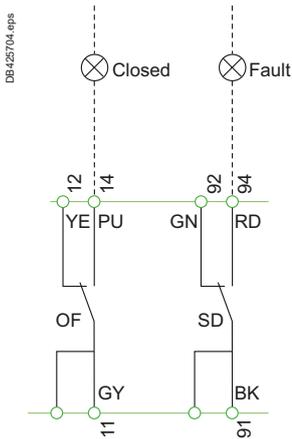


ComPact NSXm

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



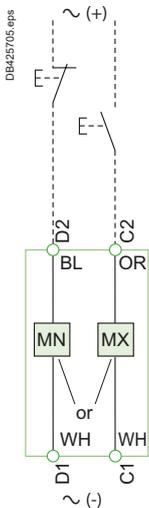
Indication contacts

- OF** Device ON/OFF indication contacts
- SD** Trip indication contact

Color code for auxiliary wiring

- BK:** Black
- GN:** Green
- GY:** Grey
- RD:** Red
- PU:** Purple
- YE:** Yellow

Remote operation



Remote operation

- MN** Undervoltage Release
- or
- MX** Shunt trip Release

Color code for auxiliary wiring

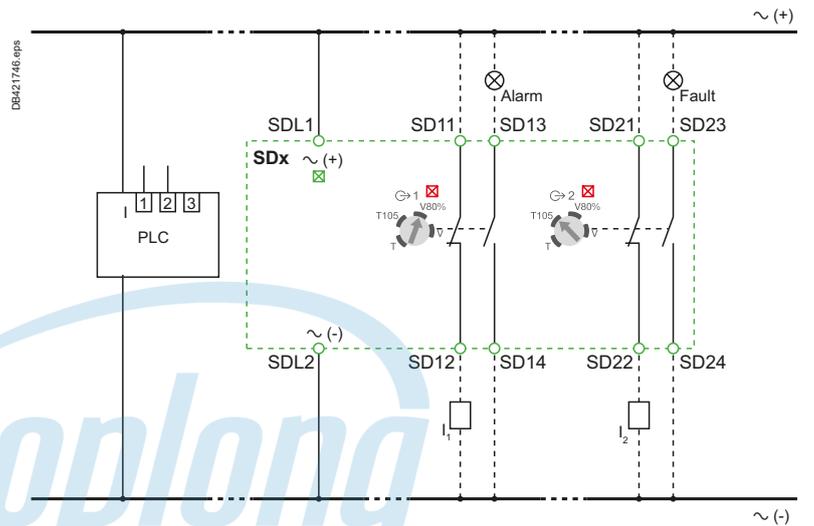
- BL:** Blue
- OR:** Orange
- WH:** White

E

INDUSTRIAL AUTOMATION

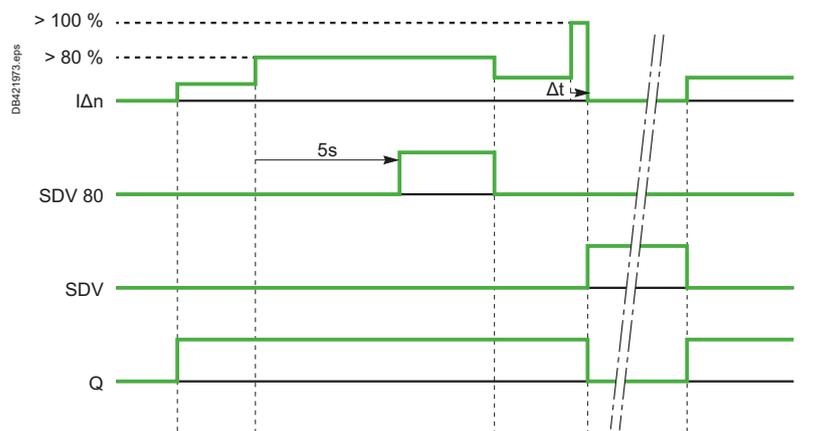
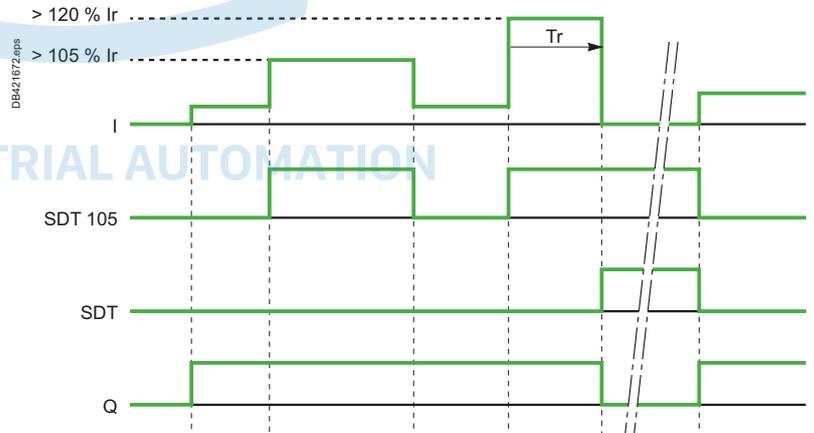
The diagram is shown with circuits de-energised, all devices open, connected and charged and relays in normal position.

Connection



Operation

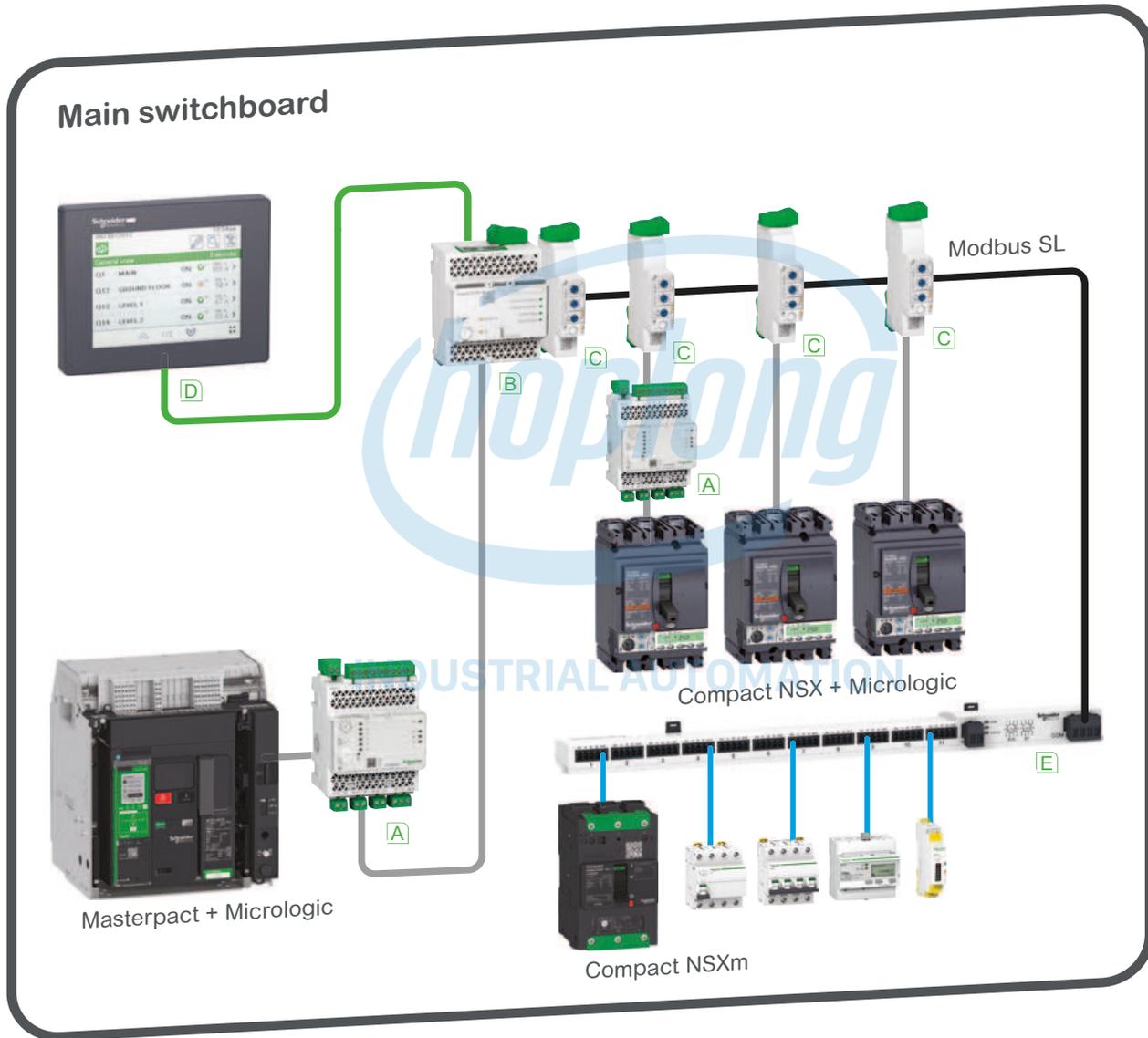
- I: charge current
- SDT105: overload alarm
- SDT: overload trip indication
- $I_{\Delta n}$: earth leakage current
- SDV80: earth leakage alarm
- SDV: earth leakage trip indication
- Q: circuit breaker



Connection of circuit breakers to the Modbus communication network

DB452561 eps

E



A I/O

B IFE interface + gateway

C IFM

D FDM128

E Acti9 Smartlink Modbus

Ethernet

Modbus SL

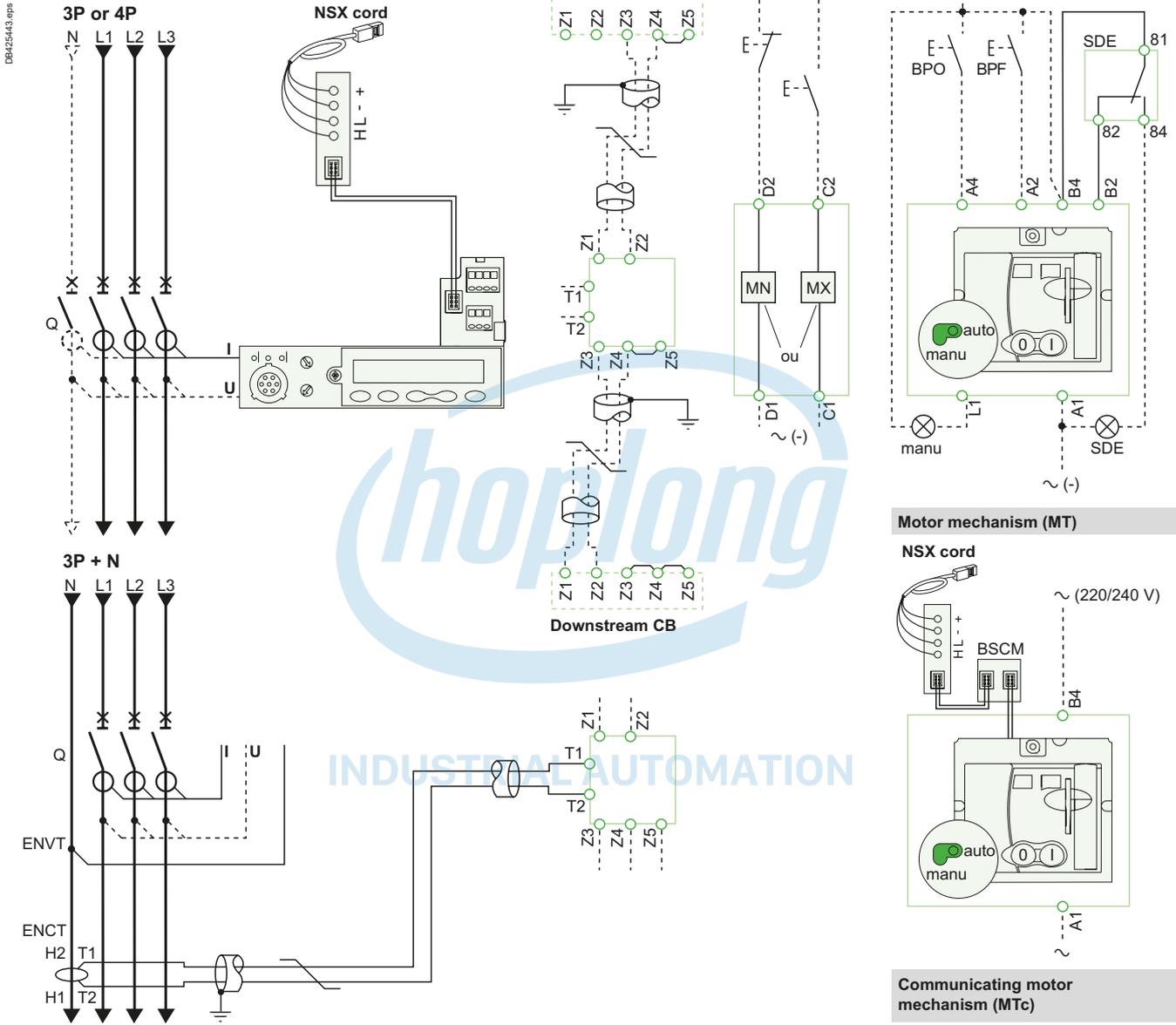
ULP

Hard wired

Power

MicroLogic

Remote operation



MicroLogic A or E

- A/E Communication**
H(WH), L(BL): data
- (BK), + (RD): 24 V DC power supply
- A/E ZSI (Zone Selective Interlocking)**
Z1: ZSI OUT SOURCE
Z2: ZSI OUT
Z3: ZSI IN SOURCE
Z4: ZSI IN ST (short time)
Z5: ZSI IN GF (ground fault)
Note: Z3, Z4, Z5 for NSX400/630 only.
- A/E ENCT:** external neutral current transformer:
- shielded cable with 1 twisted pair (T1, T2)
- shielding earthed at one end only (CT end).
Connection L = 30 cm max.
- maximum length of 10 metres
- cable size 0.4 to 1.5 mm²
- recommended cable: Belden 8441 or equivalent.
- E ENVT:** external neutral voltage tap for connection to the neutral via a 3P circuit breaker.

Remote operation

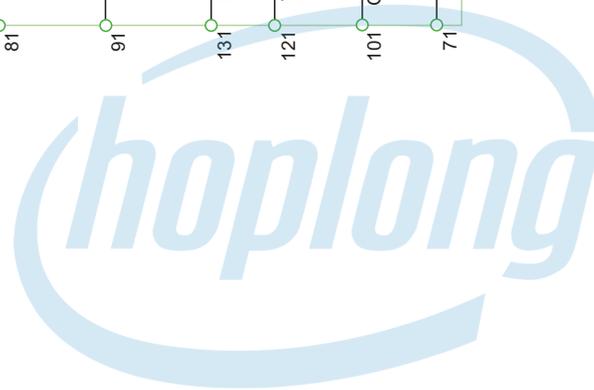
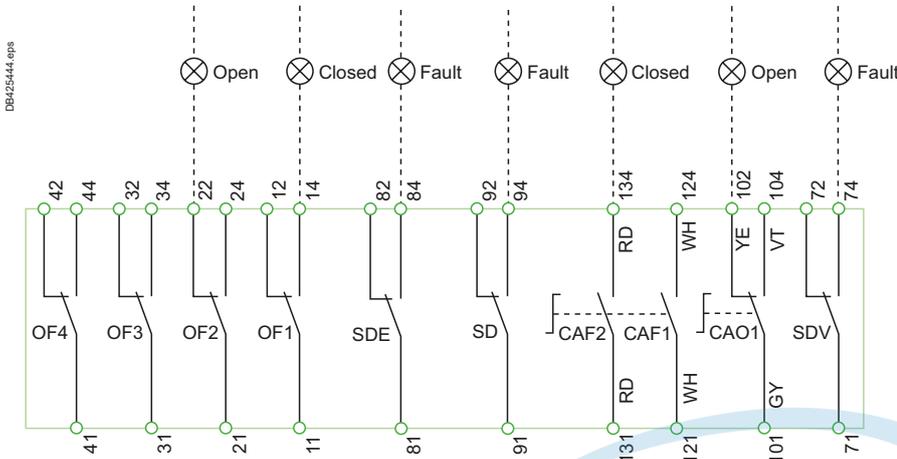
- MN:** undervoltage release
 - or**
 - MX:** shunt release
- Motor mechanism (MT)**
- A4:** opening order
 - A2:** closing order
 - B4, A1:** power supply to motor mechanism
 - L1:** manual position (manu)
 - B2:** SDE interlocking (mandatory for correct operation)
- BPO:** opening pushbutton
 - BPF:** closing pushbutton
- Communicating motor mechanism (MTc)**
- B4, A1:** motor mechanism power supply
 - BSCM:** breaker status and control module



ComPact NSX

Fixed circuit breakers

Indication contacts



INDUSTRIAL AUTOMATION

The diagram is shown with circuits de-energised, all devices open, connected and charged and relays in normal position. Terminals shown in green ● must be connected by the customer.

Indication contacts

- OF2 / OF1:** device ON/OFF indication contacts
- OF4 / OF3:** device ON/OFF indication contacts (NSX400/630)
- SDE:** fault-trip indication contact (short-circuit, overload, ground fault, earth leakage)
- SD:** trip-indication contact
- CAF2/CAF1:** early-make contact (rotary handle only)
- CAO1:** early-break contact (rotary handle only)
- SDV:** earth leakage fault trip indication contact (Vigi add-on)

Colour code for auxiliary wiring

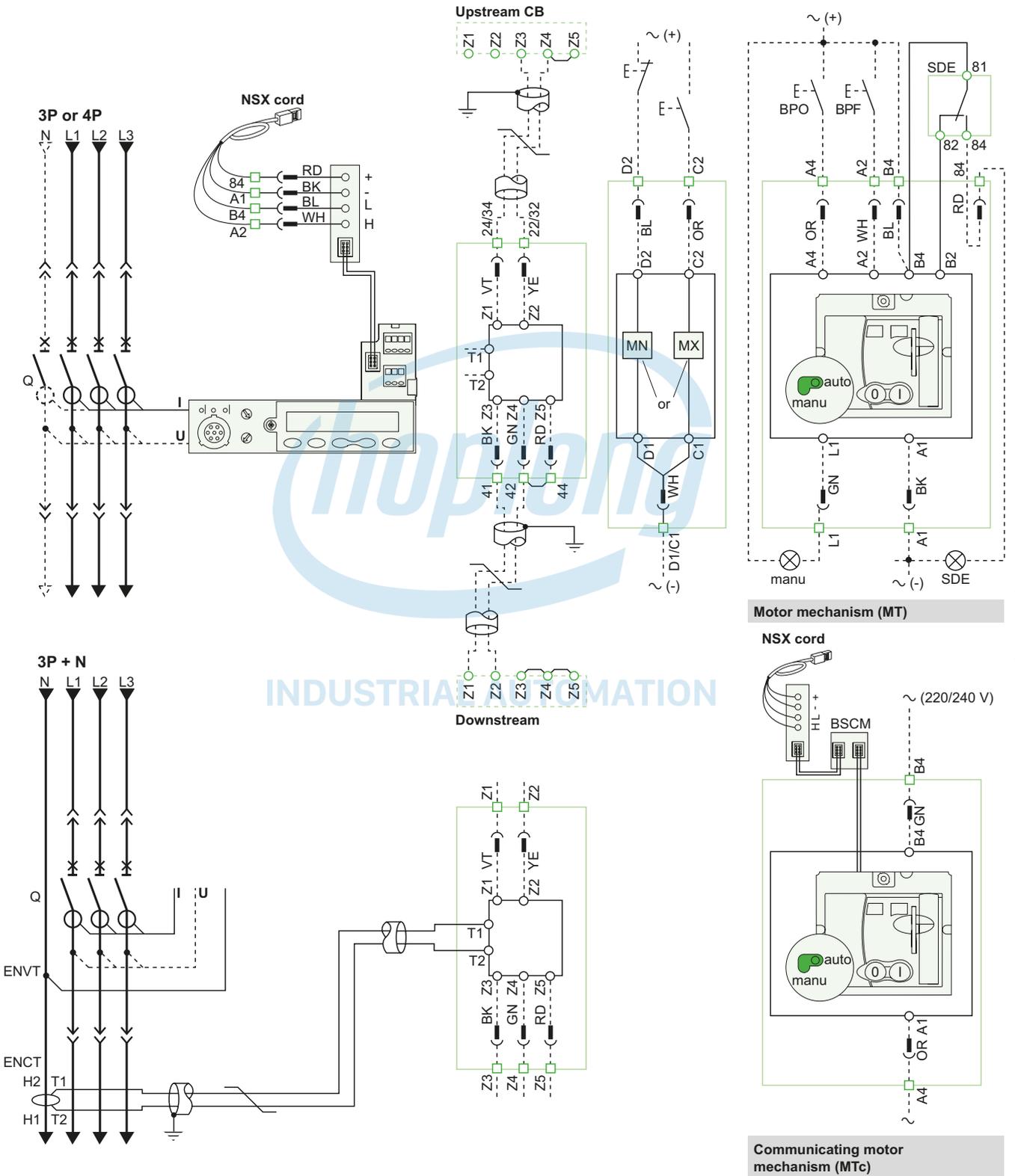
- | | |
|-------------------|-------------------|
| RD: red | VT: violet |
| WH: white | GY: grey |
| YE: yellow | OR: orange |
| BK: black | BL: blue |
| GN: green | |

Power

MicroLogic

Remote operation

DB425445.eps



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

Characteristics and performance

ComPact NSX circuit breakers from 400 to 630 A up to 690 V

PB1108106.eps



ComPact NSX400/630.

PB111001.eps



ComPact NSX630 R.

PB111013.eps



ComPact NSX630 HB2.

[1] OSN: Over Sized Neutral protection for neutrals carrying high currents (e.g. 3rd harmonics).

[2] ZSI: Zone Selective Interlocking using pilot wires.

[3] Vigi add-on is not available for breaking capacity levels HB1/HB2.

[4] Earth Leakage Circuit Breaker (MicroLogic Vigi 4.3 and 7.3 E)

Common characteristics

Rated voltages	Insulation voltage (V)	Ui	800
	Insulation voltage for ELCB [4]		500
	Impulse withstand voltage (kV)	Uimp	8
	Operational voltage (V)	Ue AC 50/60 Hz	690
	Operation voltage for ELCB [4]	Ue AC 50/60 Hz	440
Suitability for isolation		IEC/EN 60947-2	yes
Utilisation category			A
Pollution degree		IEC 60664-1	3

Circuit breakers

Breaking capacity levels

Electrical characteristics as per IEC/EN 60947-2

Rated current (A)	In	40 °C
-------------------	----	-------

Number of poles

Breaking capacity (kA rms)

Icu	AC 50/60 Hz	220/240 V
		380/415 V
		440 V
		500 V
		525 V
		660/690 V

Service breaking capacity (kA rms)

Ics	AC 50/60 Hz	220/240 V
		380/415 V
		440 V
		500 V
		525 V
		660/690 V

Durability (C-O cycles)

Mechanical	Electrical	440 V	In/2
			In
		690 V	In/2
			In

Characteristics as per UL 508

Breaking capacity (kA rms)	AC 50/60 Hz	240 V
		480 V
		600 V

Protection and measurements

Short-circuit protection	Magnetic only
Overload / short-circuit protection	Thermal magnetic
	Electronic
	with neutral protection (Off-0.5-1-OSN) [1]
	with ground-fault protection
	with zone selective interlocking (ZSI) [2]

Display / I, U, f, P, E, THD measurements / interrupted-current measurement

Options	Power Meter display on door
	Operating assistance
	Counters
	Histories and alarms
	Metering Com
	Device status/control Com

Earth-leakage protection	By Vigi add-on [3]
	By Vigirex relay

Installation / connections

Dimensions and weights

Dimensions (mm) W x H x D	Fixed, front connections	2/3P
		4P
Weight (kg)	Fixed, front connections	2/3P
		4P

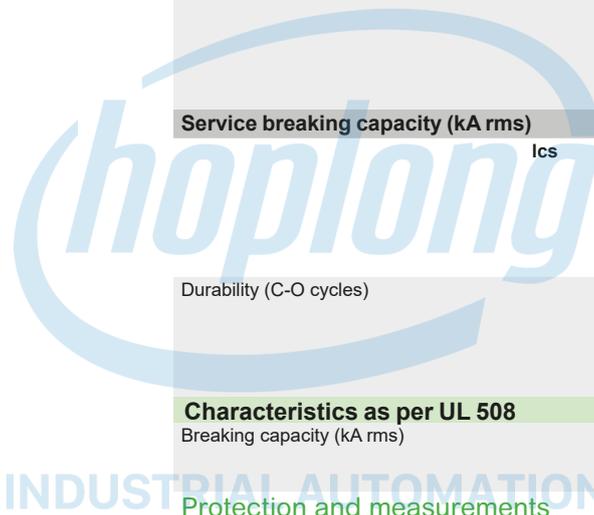
Connections

Connection terminals	Pitch	With/without spreaders
Large Cu or Al cables	Cross-section	mm ²

Source-changeover system

Manual mechanical interlocking

Automatic source-changeover



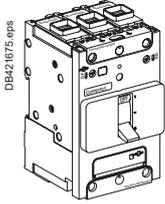
INDUSTRIAL AUTOMATION

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-magnetic trip unit TM-D



EverLink™ connectors

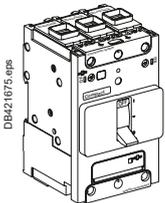
Rating	3P	4P 3d	4P 4d
TM16D	LV426100	LV426110	LV426120
TM25D	LV426101	LV426111	LV426121
TM32D	LV426102	LV426112	LV426122
TM40D	LV426103	LV426113	LV426123
TM50D	LV426104	LV426114	LV426124
TM63D	LV426105	LV426115	LV426125
TM80D	LV426106	LV426116	LV426126
TM100D	LV426107	LV426117	LV426127
TM125D	LV426108	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)

With thermal-magnetic trip unit TM-D



EverLink™ connectors

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/busbar 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

F

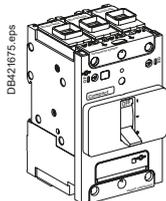


Complete fixed device

ComPact NSXm F/N (36/50 kA at 380/415 V)

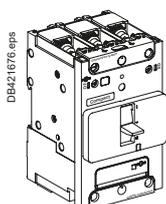
ComPact NSXm F (36 kA at 380/415 V)

With thermal-magnetic trip unit TM-D



EverLink™ connectors

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

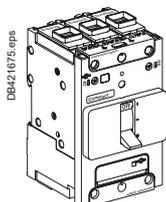


Compression lug/busbar connectors

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

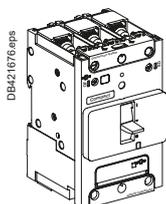
ComPact NSXm N (50 kA at 380/415 V)

With thermal-magnetic trip unit TM-D



EverLink™ connectors

Rating	3P	4P 3d	4P 4d
TM16D	LV426400	LV426410	LV426420
TM25D	LV426401	LV426411	LV426421
TM32D	LV426402	LV426412	LV426422
TM40D	LV426403	LV426413	LV426423
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

Rating	3P	4P 3d	4P 4d
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

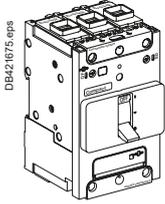


Complete fixed device

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

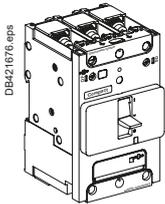
ComPact NSXm H (70 kA at 380/415 V)

With thermal-magnetic trip unit TM-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



Compression lug/busbar connectors

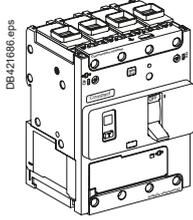
Rating	3P	4P 3d	4P 4d
TM16D	LV426550	LV426560	LV426570
TM25D	LV426551	LV426561	LV426571
TM32D	LV426552	LV426562	LV426572
TM40D	LV426553	LV426563	LV426573
TM50D	LV426554	LV426564	LV426574
TM63D	LV426555	LV426565	LV426575
TM80D	LV426556	LV426566	LV426576
TM100D	LV426557	LV426567	LV426577
TM125D	LV426558	LV426568	LV426578
TM160D	LV426559	LV426569	LV426579

INDUSTRIAL AUTOMATION

Complete fixed device
Com**Pact** NSXm MicroLogic Vigi 4.1 E/B/F
(16/25/36 kA at 380/415 V)

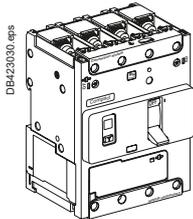
ComPact NSXm MicroLogic Vigi 4.1 E (16 kA at 380/415 V)

With MicroLogic Vigi 4.1



EverLink™ connectors

Rating	3P	4P
25 A	LV426700	LV426705
50 A	LV426701	LV426706
100 A	LV426702	LV426707
160 A	LV426703	LV426708

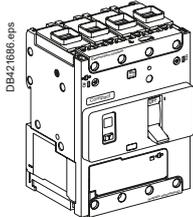


Compression lug/busbar connectors

Rating	3P	4P
25 A	LV426750	LV426755
50 A	LV426751	LV426756
100 A	LV426752	LV426757
160 A	LV426753	LV426758

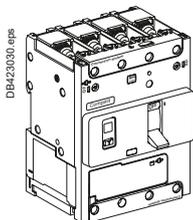
ComPact NSXm MicroLogic Vigi 4.1 B (25 kA at 380/415 V)

With MicroLogic Vigi 4.1



EverLink™ connectors

Rating	3P	4P
25 A	LV426710	LV426715
50 A	LV426711	LV426716
100 A	LV426712	LV426717
160 A	LV426713	LV426718

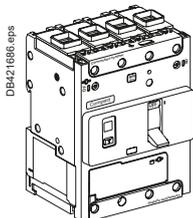


Compression lug/busbar connectors

Rating	3P	4P
25 A	LV426760	LV426765
50 A	LV426761	LV426766
100 A	LV426762	LV426767
160 A	LV426763	LV426768

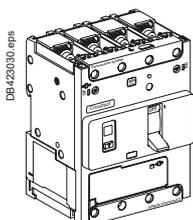
ComPact NSXm MicroLogic Vigi 4.1 F (36 kA at 380/415 V)

With MicroLogic Vigi 4.1



EverLink™ connectors

Rating	3P	4P
25 A	LV426720	LV426725
50 A	LV426721	LV426726
100 A	LV426722	LV426727
160 A	LV426723	LV426728



Compression lug/busbar connectors

Rating	3P	4P
25 A	LV426770	LV426775
50 A	LV426771	LV426776
100 A	LV426772	LV426777
160 A	LV426773	LV426778

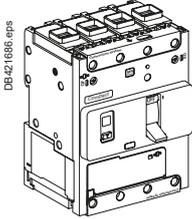


Complete fixed device

ComPact NSXm MicroLogic Vigi 4.1 N/H (50/70kA at 380/415 V)

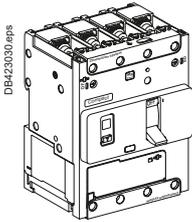
ComPact NSXm MicroLogic Vigi 4.1 N (50 kA at 380/415 V)

With MicroLogic Vigi 4.1



EverLink™ connectors

Rating	3P	4P
25 A	LV426730	LV426735
50 A	LV426731	LV426736
100 A	LV426732	LV426737
160 A	LV426733	LV426738

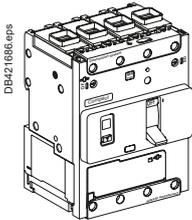


Compression lug/busbar connectors

Rating	3P	4P
25 A	LV426780	LV426785
50 A	LV426781	LV426786
100 A	LV426782	LV426787
160 A	LV426783	LV426788

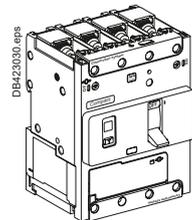
ComPact NSXm MicroLogic Vigi 4.1 H (70 kA at 380/415 V)

With MicroLogic Vigi 4.1



EverLink™ connectors

Rating	3P	4P
25 A	LV426740	LV426745
50 A	LV426741	LV426746
100 A	LV426742	LV426747
160 A	LV426743	LV426748

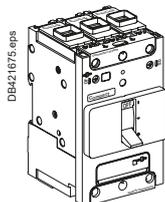


Compression lug/busbar connectors

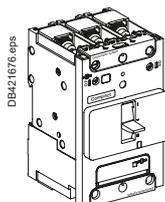
Rating	3P	4P
25 A	LV426790	LV426795
50 A	LV426791	LV426796
100 A	LV426792	LV426797
160 A	LV426793	LV426798

F

ComPact NSXm NA switch-disconnector



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



Compression lug/busbar connectors		
Rating	3P	4P
50NA	LV426650	LV426660
100NA	LV426651	LV426661
160NA	LV426652	LV426662



INDUSTRIAL AUTOMATION

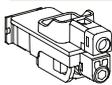


Accessories

Connection and insulation

Connection accessories (Cu or Al)

Bare cable connectors

 DB421533.eps	Everlink connector with control wire terminal	1x (2.5 to 95 mm ²); ≤ 160 A Cu or ≤ 100 A Al	Set of 3	LV426970
			Set of 4	LV426971
 DB419793.eps	Aluminium connector	1x (2.5 to 70 mm ²); ≤ 125 A Cu or Al	Set of 2	LV426966
			Set of 3	LV426967

Compression lugs / busbar connectors

 DB421537.eps	Terminal with nuts and screws M6	≤ 160 A	Set of 3	LV426960
			Set of 4	LV426961

Terminal extensions

 DB421538.eps	Spreaders from 27 to 35 mm pitch ^[1]	3P	LV426940
		4P	LV426941

Crimp lugs for copper cable ^[1]

 DB421539.eps	For cable 50 mm ²	Set of 3	LV426978
		Set of 4	LV426979
	For cable 70 mm ²	Set of 3	LV426980
		Set of 4	LV426981
	For cable 95 mm ²	Set of 3	LV426982
		Set of 4	LV426983

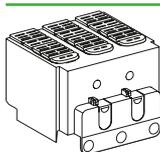
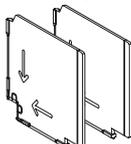
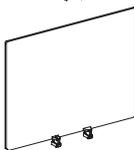
Crimp lugs for aluminium cable ^[1]

 DB421540.eps	For cable 95 mm ² rigid	Set of 3	LV426984
		Set of 4	LV426985
	For cable 120 mm ² rigid	Set of 3	LV426976
		Set of 4	LV426977

Torque limiting breakaway bits

 DB421541.eps	9 N.m	Set of 6	LV426990
		Set of 8	LV426991
	5 N.m	Set of 6	LV426992
		Set of 8	LV426993

Insulation accessories

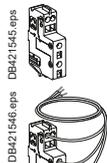
 DB421542.eps	1 long terminal shield	3P	LV426912
		4P	LV426913
 DB421543.eps	Interphase barriers	Set of 6	LV426920
 DB21544eps	2 rear insulation screens	3P	LV426922
		4P	LV426923

[1] Supplied with 2 or 3 interphase barriers.

F

Electrical auxiliaries

Auxiliary contacts (changeover)



Standard OF or SD	LV426950
Pre-wired OF ^[1]	LV426951
Pre-wired SD ^[1]	LV426952

SDx for MicroLogic Vigi 4.1



SDx module 24-250 V AC/DC	LV426900
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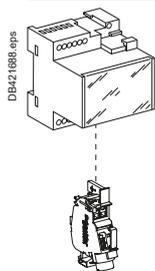
Voltage releases



Standard	Voltage	MX	MN		
AC	24 V 50/60 Hz	LV426841	LV426801		
	48 V 50/60 Hz	LV426842	LV426802		
	110...130 V 50/60 Hz	LV426843	LV426803		
	220...240 V 50 Hz	LV426844	LV426804		
	208...240 V 60 Hz				
	277 V 60 Hz	LV426844	LV426805		
	380...415 V 50 Hz	LV426846	LV426806		
DC	440...480 V 60 Hz	LV426846	LV426807		
	12 V DC	LV426850	-		
	24 V DC	LV426841	LV426801		
	48 V DC	LV426842	LV426802		
	125 V DC	LV426843	LV426803		
	250 V DC	LV426844	LV426815		
Pre-wired ^[1]	Voltage	MX	MN		
		AC	24 V 50/60 Hz	LV426861	LV426821
			48 V 50/60 Hz	LV426862	LV426822
			110...130 V 50/60 Hz	LV426863	LV426823
			220...240 V 50 Hz	LV426864	LV426824
			208...240 V 60 Hz		
			277 V 60 Hz	LV426864	LV426825
	380...415 V 50 Hz		LV426866	LV426826	
	DC	440...480 V 60 Hz	LV426866	LV426827	
		12 V DC	LV426870	-	
		24 V DC	LV426861	LV426821	
		48 V DC	LV426862	LV426822	
		125 V DC	LV426863	LV426823	
250 V DC		LV426864	LV426835		



Time delay unit for undervoltage release (MN)



MN 48 V 50/60 Hz with fixed time delay		
Composed of:	MN 48 V DC	LV426802
	Delay unit 48 V 50/60 Hz	LV429426
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/AC 50/60 Hz with adjustable time delay		
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 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 delay		
Composed of:	MN 250 V DC	LV426815
	Delay unit 200-250 V DC/AC 50-60 Hz	33682

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

Accessories

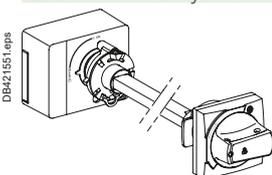
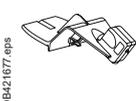
Rotary handles, locks and seals

Rotary handle

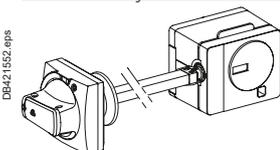
Direct rotary handle

	With black handle	LV426930
	With red handle on yellow front	LV426931

Extended rotary handle

	With black handle IP54	LV426932
	With red handle on yellow front IP54	LV426933
	With red handle on yellow front IP65	LV426934
	Open door shaft operator	LV426937
	Laser tool	GVAPL01

Side rotary handle

	With black handle IP54	LV426935
	With red handle on yellow front IP54	LV426936

Universal handle

	Black handle IP54 (spare part for replacement of front, ext. or side rotary handle)	LV426997
	Red handle on yellow front IP54	LV426998
	Red handle on yellow front IP65	LV426999

Locks

Toggle locking device for 1 to 3 padlocks

	By removable device	29370
	By fixed device (OFF or ON)	LV426905
	By fixed device (OFF only)	LV426906
		

Lead - Sealing accessories

	Bag of accessories	LV429375
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INDUSTRIAL AUTOMATION

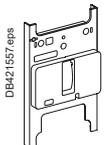
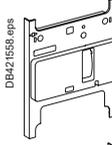
F



Accessories

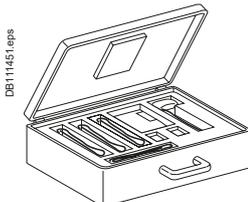
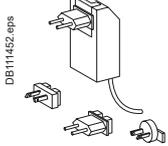
Spare parts, test tool and software

Spare parts

 DB421557.eps	Front cover	3P	LV426946
	 DB421558.eps	4P	LV426947
		ELCB ^[1]	LV426948

Test tool, software, demo

Test tool

 DB111449.eps	Pocket battery for MicroLogic		LV434206
 DB111451.eps	Maintenance case		TRV00910
	Comprising: <ul style="list-style-type: none"> ■ USB maintenance interface ■ Power supply ■ MicroLogic cord ■ USB cord ■ RJ45/RJ45 male cord 		
 DB111450.eps	Spare USB maintenance interface		TRV00911
 DB111452.eps	Spare power supply 110-240 V AC		TRV00915
 DB111453.eps	Spare MicroLogic cord for USB maintenance interface		TRV00917

Software

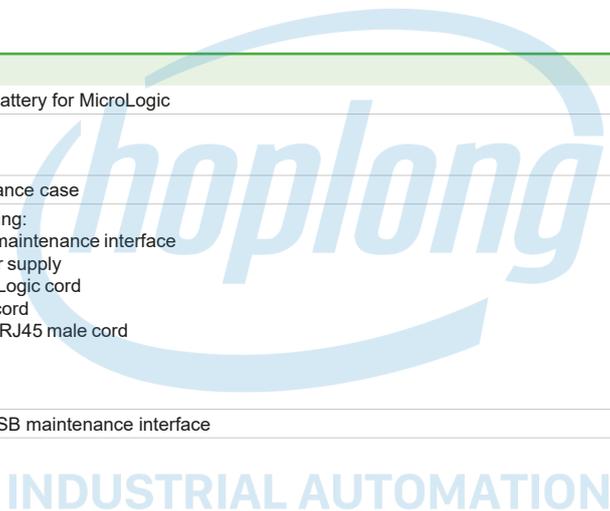
 DB111758.eps	Configuration and setting EcoStruxure Power Commission software		LV4ST100
	Test software LTU		LV4ST121 ^[2]
	Monitoring EcoStruxure Power Commission software		LV4SM100 ^[2]

Demo tool

	Demo case for ComPact		LV434207
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[1] ELCB: Earth Leakage Circuit Breaker.

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



Characteristics and performance

ComPact NSXm switch-disconnectors from 50 to 160 A NA

Installation standards require upstream protection. However ComPact NSXm 50 to 160 NA switch-disconnectors are self-protected by their high-set magnetic release.



ComPact NSXm switch-disconnectors.

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 isolation		IEC/EN 60947-3	yes
Utilisation category		AC 22 A/AC 23 A	
Pollution degree		IEC 60664-1	3

Switch-disconnectors

Electrical characteristics as per IEC/EN 60947-3

Conventional thermal current (A) Ith 40 °C			
Number of poles			
Operational current (A) depending on the utilisation category	Ie	AC 50/60 Hz	220/240 V 380/415 V 440/480 V 500/525 V 660/690 V
Short-circuit making capacity (kA peak)	Icm	min. (switch-disconnector alone) max. (protection by upstream circuit breaker)	
Rated short-time withstand current (A rms)	Icw	for	1 s 3 s 20 s
Durability (C-O cycles)	mechanical		
	electrical	AC	440 V Ie/2 690 V Ie/2

Positive contact indication

Pollution degree

Additional indication and control auxiliaries

Indication contacts

Voltage releases	MX shunt trip release
	MN undervoltage release

Installation / connections

Dimensions and weights

Dimensions (mm)	3P
W x H x D	4P
Weight (kg)	3P
	4P

Connections

Pitch (mm)	Standard
	With spreaders
EverLink lug Cu or Al [1] cables	Cross-section (mm²)
	Rigid Flexible
Crimp lugs Cu or Al	Cross-section (mm²)
	Rigid Flexible

Source-changeover systems

Manual mechanical interlocking

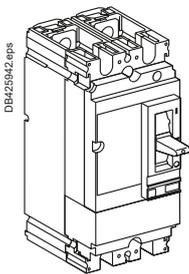
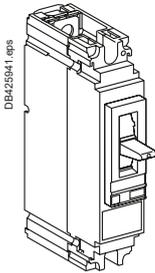
[1] Al up to 100 A.

Complete fixed device

ComPact NSX100/160 1P-2P NSX250N 1P

ComPact NSX100/160 F/N/M/S 1P/2P

With thermal-magnetic trip unit TM-D



ComPact NSX100F AC/DC

Rating	1P 1d (Icu = 18 kA 220/240 V AC)
TM16D	LV438562
TM20D	LV438563
TM25D	LV438564
TM30D	LV438565
TM40D	LV438566
TM50D	LV438567
TM63D	LV438568
TM80D	LV438569
TM100D	LV438570

ComPact NSX100F AC/DC

Rating	2P 2d (Icu = 18 kA 380/415 V AC)
	LV438592
	LV438593
	LV438594
	LV438595
	LV438596
	LV438597
	LV438598
	LV438599
	LV438600

ComPact NSX160F AC/DC

Rating	1P 1d (Icu = 18 kA 220/240 V AC)
TM125D	LV438669
TM160D	LV438670

ComPact NSX160F AC/DC

Rating	2P 2d (Icu = 18 kA 380/415 V AC)
	LV438699
	LV438700

ComPact NSX100N AC/DC

Rating	1P 1d (Icu = 25 kA 220/240 V AC)
TM16D	LV438572
TM20D	LV438573
TM25D	LV438574
TM30D	LV438575
TM40D	LV438576
TM50D	LV438577
TM63D	LV438578
TM80D	LV438579
TM100D	LV438580

ComPact NSX100M AC/DC

Rating	2P 2d (Icu = 25 kA 380/415 V AC)
	LV438602
	LV438603
	LV438604
	LV438605
	LV438606
	LV438607
	LV438608
	LV438609
	LV438610

ComPact NSX160N AC/DC

Rating	1P 1d (Icu = 25 kA 220/240 V AC)
TM125D	LV438679
TM160D	LV438680

ComPact NSX160M AC/DC

Rating	2P 2d (Icu = 40 kA 380/415 V AC)
	LV438709
	LV438710

ComPact NSX100M AC/DC

Rating	1P 1d (Icu = 40 kA 220/240 V AC)
TM16D	LV438582
TM20D	LV438583
TM25D	LV438584
TM30D	LV438585
TM40D	LV438586
TM50D	LV438587
TM63D	LV438588
TM80D	LV438589
TM100D	LV438590

ComPact NSX100S AC/DC

Rating	2P 2d (Icu = 70 kA 380/415 V AC)
	LV438612
	LV438613
	LV438614
	LV438615
	LV438616
	LV438617
	LV438618
	LV438619
	LV438620

ComPact NSX160M AC/DC

Rating	1P 1d (Icu = 40 kA 220/240 V AC)
TM125D	LV438689
TM160D	LV438690

ComPact NSX160S AC/DC

Rating	2P 2d (Icu = 70 kA 380/415 V AC)
	LV438719
	LV438720

ComPact NSX250 N 1P

With thermal-magnetic trip unit TM-D

ComPact NSX250N AC

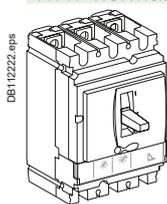
Rating	1P 1d (Icu = 25 kA 220/240 V AC)
TM160D	LV438693
TM200D	LV438694
TM250D	LV438695

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ComPact NSX100/160/250B

With thermal-magnetic trip unit TM-D

**ComPact NSX100B (25 kA at 380/415 V)**

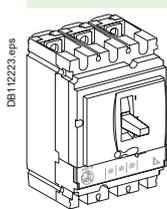
Rating	3P 2d	3P 3d	4P 3d	4P 4d
TM16D	LV429547	LV429557	LV429567	LV429577
TM25D	LV429546	LV429556	LV429566	LV429576
TM32D	LV429545	LV429555	LV429565	LV429575
TM40D	LV429544	LV429554	LV429564	LV429574
TM50D	LV429543	LV429553	LV429563	LV429573
TM63D	LV429542	LV429552	LV429562	LV429572
TM80D	LV429541	LV429551	LV429561	LV429571
TM100D	LV429540	LV429550	LV429560	LV429570

ComPact NSX160B (25 kA at 380/415 V)

Rating	3P 2d	3P 3d	4P 3d	4P 4d
TM80D	LV430303	LV430313	LV430323	LV430333
TM100D	LV430302	LV430312	LV430322	LV430332
TM125D	LV430301	LV430311	LV430321	LV430331
TM160D	LV430300	LV430310	LV430320	LV430330

ComPact NSX250B (25 kA at 380/415 V)

Rating	3P 2d	3P 3d	4P 3d	4P 4d
TM125D	LV431103	LV431113	LV431123	LV431133
TM160D	LV431102	LV431112	LV431122	LV431132
TM200D	LV431101	LV431111	LV431121	LV431131
TM250D	LV431100	LV431110	LV431120	LV431130

With electronic trip unit MicroLogic 2.2 (LS_oI protection)**ComPact NSX100B (25 kA at 380/415 V)**

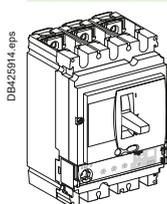
Rating	3P 3d	4P 3d, 4d, 3d + N/2
40	LV429777	LV429787
100	LV429775	LV429785

ComPact NSX160B (25 kA at 380/415 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2
100	LV430746	LV430751
160	LV430745	LV430750

ComPact NSX250B (25 kA at 380/415 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2
100	LV431142	LV431152
160	LV431141	LV431151
250	LV431140	LV431150

With electronic trip unit MicroLogic Vigi 4.2 (LS_oIR protection)**ComPact NSX100B (25 kA 380/415V)**

Rating	3P 3d	4P 4d, 3d + N/2
40 A	LV433810	LV433818
100 A	LV433811	LV433819

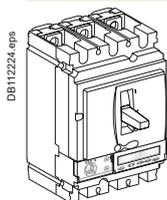
ComPact NSX160B (25 kA 380/415V)

Rating	3P 3d	4P 4d, 3d + N/2
100 A	LV433812	LV433820
160 A	LV433813	LV433821

ComPact NSX250B (25 kA 380/415V)

Rating	3P 3d	4P 4d, 3d + N/2
100 A	LV433814	LV433822
160 A	LV433815	LV433823
250 A	LV433816	LV433824

With electronic trip unit MicroLogic 5.2 A (LSI protection, ammeter)

**ComPact NSX100B (25 kA at 380/415 V)**

Rating	3P 3d	4P 3d, 4d, 3d + N/2, 3d + OSN
40	LV429872	LV429877
100	LV429870	LV429875

ComPact NSX160B (25 kA at 380/415 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2, 3d + OSN
100	LV430871	LV430876
160	LV430870	LV430875

ComPact NSX250B (25 kA at 380/415 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2, 3d + OSN
100	LV431147	LV431157
160	LV431146	LV431156
250	LV431145	LV431155

With electronic trip unit MicroLogic 5.2 E (LSI protection, energy meter)

To be ordered with 2 catalog numbers: 1 basic frame + 1 trip unit

With electronic trip unit MicroLogic 6.2 A (LSIG protection, ammeter)

To be ordered with 2 catalog numbers: 1 basic frame + 1 trip unit

With electronic trip unit MicroLogic 6.2 E (LSIG protection, energy meter)

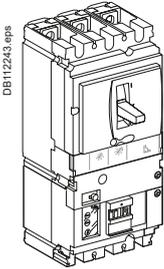
To be ordered with 2 catalog numbers: 1 basic frame + 1 trip unit

Complete fixed device

ComPact NSX100/160/250B Vigi add-on (25 kA 380/415 V)

ComPact NSX100/160/250B Vigi add-on

With thermal-magnetic trip unit TM-D



ComPact NSX100B (25 kA at 380/415 V) MH Vigi add-on (200 to 440 V)

Rating	3P 3d	4P 3d	4P 4d
TM16D	LV429667	LV429707	LV429967
TM25D	LV429666	LV429706	LV429966
TM32D	LV429665	LV429705	LV429965
TM40D	LV429664	LV429704	LV429964
TM50D	LV429663	LV429703	LV429963
TM63D	LV429662	LV429702	LV429962
TM80D	LV429661	LV429701	LV429961
TM100D	LV429660	LV429700	LV429960

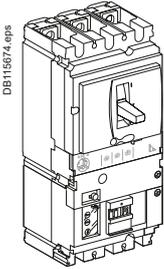
ComPact NSX160B (25 kA at 380/415 V) MH Vigi add-on (200 to 440 V)

Rating	3P 3d	4P 3d	4P 4d
TM80D	LV430343	LV430353	LV430363
TM100D	LV430342	LV430352	LV430362
TM125D	LV430341	LV430351	LV430361
TM160D	LV430340	LV430350	LV430360

ComPact NSX250B (25 kA at 380/415 V) MH Vigi add-on (200 to 440 V)

Rating	3P 3d	4P 3d	4P 4d
TM125D	LV431903	LV431913	LV431963
TM160D	LV431902	LV431912	LV431962
TM200D	LV431901	LV431911	LV431961
TM250D	LV431900	LV431910	LV431960

With electronic trip unit MicroLogic 2.2 (LS₀₁I protection)



ComPact NSX100B (25 kA at 380/415 V) MH Vigi add-on (200 to 440 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2
40	LV429975	LV429985
100	LV429974	LV429984

ComPact NSX160B (25 kA at 380/415 V) MH Vigi add-on (200 to 440 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2
40	LV430962	LV430997
100	LV430961	LV430996
160	LV430960	LV430995

ComPact NSX250B (25 kA at 380/415 V) MH Vigi add-on (200 to 440 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2
100	LV431977	LV431987
160	LV431976	LV431986
250	LV431975	LV431985

With electronic trip unit MicroLogic 5.2 A or 5.2 E (LSI protection, ammeter or energy meter)

To be ordered with 2 catalog numbers: 1 basic frame + 1 trip unit

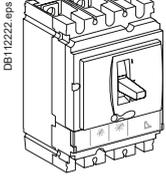
F

Complete fixed device

ComPact NSX100/160/250F (36 kA 380/415 V)

ComPact NSX100/160/250F

With thermal-magnetic trip unit TM-D



ComPact NSX100F (36 kA at 380/415 V)

Rating	3P 2d	3P 3d	4P 3d	4P 4d
TM16D	LV429627	LV429637	LV429647	LV429657
TM25D	LV429626	LV429636	LV429646	LV429656
TM32D	LV429625	LV429635	LV429645	LV429655
TM40D	LV429624	LV429634	LV429644	LV429654
TM50D	LV429623	LV429633	LV429643	LV429653
TM63D	LV429622	LV429632	LV429642	LV429652
TM80D	LV429621	LV429631	LV429641	LV429651
TM100D	LV429620	LV429630	LV429640	LV429650

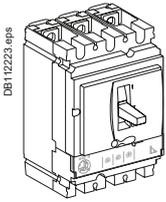
ComPact NSX160F (36 kA at 380/415 V)

Rating	3P 2d	3P 3d	4P 3d	4P 4d
TM80D	LV430623	LV430633	LV430643	LV430653
TM100D	LV430622	LV430632	LV430642	LV430652
TM125D	LV430621	LV430631	LV430641	LV430651
TM160D	LV430620	LV430630	LV430640	LV430650

ComPact NSX250F (36 kA at 380/415 V)

Rating	3P 2d	3P 3d	4P 3d	4P 4d
TM125D	LV431623	LV431633	LV431643	LV431653
TM160D	LV431622	LV431632	LV431642	LV431652
TM200D	LV431621	LV431631	LV431641	LV431651
TM250D	LV431620	LV431630	LV431640	LV431650

With electronic trip unit MicroLogic 2.2 (LS_oI protection)



ComPact NSX100F (36 kA at 380/415 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2
40	LV429772	LV429782
100	LV429770	LV429780

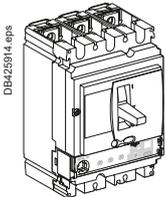
ComPact NSX160F (36 kA at 380/415 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2
100	LV430771	LV430781
160	LV430770	LV430780

ComPact NSX250F (36 kA at 380/415 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2
100	LV431772	LV431782
160	LV431771	LV431781
250	LV431770	LV431780

With electronic trip unit MicroLogic Vigi 4.2 (LS_oIR protection)



ComPact NSX100F (36 kA 380/415V)

Rating	3P 3d	4P 4d, 3d + N/2
40 A	LV433826	LV433834
100 A	LV433827	LV433835

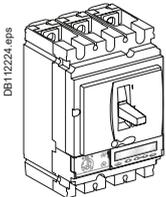
ComPact NSX160F (36 kA 380/415V)

Rating	3P 3d	4P 4d, 3d + N/2
100 A	LV433828	LV433836
160 A	LV433829	LV433837

ComPact NSX250F (36 kA 380/415V)

Rating	3P 3d	4P 4d, 3d + N/2
100 A	LV433830	LV433838
160 A	LV433831	LV433839
250 A	LV433832	LV433840

With electronic trip unit MicroLogic 5.2 A (LSI protection, ammeter)



ComPact NSX100F (36 kA at 380/415 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2, 3d + OSN
40	LV429882	LV429887
100	LV429880	LV429885

ComPact NSX160F (36 kA at 380/415 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2, 3d + OSN
100	LV430881	LV430886
160	LV430880	LV430885

ComPact NSX250F (36 kA at 380/415 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2, 3d + OSN
100	LV431862	LV431867
160	LV431861	LV431866
250	LV431860	LV431865

With electronic trip unit MicroLogic 5.2 E (LSI protection, energy meter)

To be ordered with 2 catalog numbers: 1 basic frame + 1 trip unit

With electronic trip unit MicroLogic 6.2 A (LSIG protection, ammeter)

To be ordered with 2 catalog numbers: 1 basic frame + 1 trip unit

With electronic trip unit MicroLogic 6.2 E (LSIG protection, energy meter)

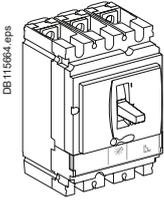
To be ordered with 2 catalog numbers: 1 basic frame + 1 trip unit

Complete fixed device

ComPact NSX100/160/250F (36 kA 380/415 V)

ComPact NSX100/160/250F

With magnetic trip unit MA



ComPact NSX100F (36 kA at 380/415 V)

Rating	3P 3d
MA2.5	LV429745
MA6.3	LV429744
MA12.5	LV429743
MA25	LV429742
MA50	LV429741
MA100	LV429740

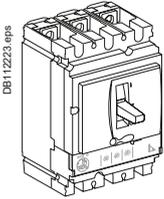
ComPact NSX160F (36 kA at 380/415 V)

Rating	3P 3d
MA100	LV430831
MA150	LV430830

ComPact NSX250F (36 kA at 380/415 V)

Rating	3P 3d
MA150	LV431749
MA220	LV431748

With electronic trip unit MicroLogic 2.2 M (LS_o motor protection)



ComPact NSX100F (36 kA at 380/415 V)

Rating	3P 3d
25 A	LV429828
50 A	LV429827
100 A	LV429825

ComPact NSX160F (36 kA at 380/415 V)

Rating	3P 3d
100 A	LV430986
150 A	LV430985

ComPact NSX250F (36 kA at 380/415 V)

Rating	3P 3d
150 A	LV431161
220 A	LV431160

With electronic trip unit MicroLogic 6.2 E-M (LSIG motor protection, energy meter)

To be ordered with 2 catalog numbers: 1 basic frame + 1 trip unit

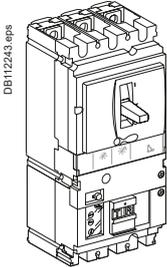
INDUSTRIAL AUTOMATION

Complete fixed device

ComPact NSX100/160/250F Vigi add-on (36 kA 380/415 V)

ComPact NSX100/160/250F Vigi add-on

With thermal-magnetic trip unit TM-D



ComPact NSX100F (36 kA at 380/415 V) MH Vigi add-on (200 to 440 V)

Rating	3P 3d	4P 3d	4P 4d
TM16D	LV429937	LV429947	LV429957
TM25D	LV429936	LV429946	LV429956
TM32D	LV429935	LV429945	LV429955
TM40D	LV429934	LV429944	LV429954
TM50D	LV429933	LV429943	LV429953
TM63D	LV429932	LV429942	LV429952
TM80D	LV429931	LV429941	LV429951
TM100D	LV429930	LV429940	LV429950

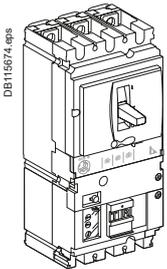
ComPact NSX160F (36 kA at 380/415 V) MH Vigi add-on (200 to 440 V)

Rating	3P 3d	4P 3d	4P 4d
TM80D	LV430933	LV430943	LV430953
TM100D	LV430932	LV430942	LV430952
TM125D	LV430931	LV430941	LV430951
TM160D	LV430930	LV430940	LV430950

ComPact NSX250F (36 kA at 380/415 V) MH Vigi add-on (200 to 440 V)

Rating	3P 3d	4P 3d	4P 4d
TM125D	LV431933	LV431943	LV431953
TM160D	LV431932	LV431942	LV431952
TM200D	LV431931	LV431941	LV431951
TM250D	LV431930	LV431940	LV431950

With electronic trip unit MicroLogic 2.2 (LS₀I protection)



ComPact NSX100F (36 kA at 380/415 V) MH Vigi add-on (200 to 440 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2
40 A	LV429972	LV429982
100 A	LV429970	LV429980

ComPact NSX160F (36 kA at 380/415 V) MH Vigi add-on (200 to 440 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2
40 A	LV430973	LV430983
100 A	LV430971	LV430981
160 A	LV430970	LV430980

ComPact NSX250F (36 kA at 380/415 V) MH Vigi add-on (200 to 440 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2
100 A	LV431972	LV431982
160 A	LV431971	LV431981
250 A	LV431970	LV431980

With electronic trip unit MicroLogic 5.2 A or 5.2 E (LSI protection, energy meter)

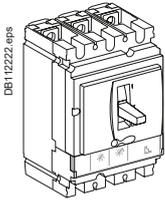
To be ordered with 2 catalog numbers: 1 basic frame + 1 trip unit

Complete fixed device

ComPact NSX100/160/250N (50 kA 380/415 V)

ComPact NSX100/160/250N

With thermal-magnetic trip unit TM-D



ComPact NSX100N (50 kA at 380/415 V)

Rating	3P 3d	4P 3d	4P 4d
TM16D	LV429847	LV429857	LV429867
TM25D	LV429846	LV429856	LV429866
TM32D	LV429845	LV429855	LV429865
TM40D	LV429844	LV429854	LV429864
TM50D	LV429843	LV429853	LV429863
TM63D	LV429842	LV429852	LV429862
TM80D	LV429841	LV429851	LV429861
TM100D	LV429840	LV429850	LV429860

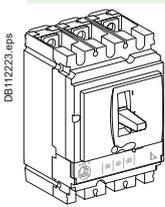
ComPact NSX160N (50 kA at 380/415 V)

Rating	3P 3d	4P 3d	4P 4d
TM80D	LV430843	LV430853	LV430863
TM100D	LV430842	LV430852	LV430862
TM125D	LV430841	LV430851	LV430861
TM160D	LV430840	LV430850	LV430860

ComPact NSX250N (50 kA at 380/415 V)

Rating	3P 3d	4P 3d	4P 4d
TM125D	LV431833	LV431843	LV431853
TM160D	LV431832	LV431842	LV431852
TM200D	LV431831	LV431841	LV431851
TM250D	LV431830	LV431840	LV431850

With electronic trip unit MicroLogic 2.2 (LS_oI protection)



ComPact NSX100N (50 kA at 380/415 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2
40 A	LV429797	LV429807
100 A	LV429795	LV429805

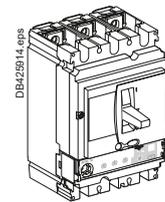
ComPact NSX160N (50 kA at 380/415 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2
100 A	LV430776	LV430786
160 A	LV430775	LV430785

ComPact NSX250N (50 kA at 380/415 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2
100 A	LV431872	LV431877
160 A	LV431871	LV431876
250 A	LV431870	LV431875

With electronic trip unit MicroLogic Vigi 4.2 (LS_oIR protection)



ComPact NSX100N (50 kA 380/415V)

Rating	3P 3d	4P 4d, 3d + N/2
40 A	LV433842	LV433850
100 A	LV433843	LV433851

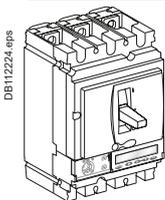
ComPact NSX160N (50 kA 380/415V)

Rating	3P 3d	4P 4d, 3d + N/2
100 A	LV433844	LV433852
160 A	LV433845	LV433853

ComPact NSX250N (50 kA 380/415V)

Rating	3P 3d	4P 4d, 3d + N/2
100 A	LV433846	LV433854
160 A	LV433847	LV433855
250 A	LV433848	LV433856

With electronic trip unit MicroLogic 5.2 A (LSI protection, ammeter)



ComPact NSX100N (50 kA at 380/415 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2, OSN
40 A	LV429892	LV429897
100 A	LV429890	LV429895

ComPact NSX160N (50 kA at 380/415 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2, OSN
100 A	LV430891	LV430896
160 A	LV430890	LV430895

ComPact NSX250N (50 kA at 380/415 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2, OSN
100 A	LV431882	LV431887
160 A	LV431881	LV431886
250 A	LV431880	LV431885

With electronic trip unit MicroLogic 5.2 E (LSI protection, energy meter)

To be ordered with 2 catalog numbers: 1 basic frame + 1 trip unit

With electronic trip unit MicroLogic 6.2 A (LSIG protection, ammeter)

To be ordered with 2 catalog numbers: 1 basic frame + 1 trip unit

With electronic trip unit MicroLogic 6.2 E (LSIG protection, energy meter)

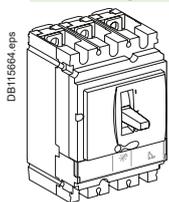
To be ordered with 2 catalog numbers: 1 basic frame + 1 trip unit

Complete fixed device

ComPact NSX100/160/250N (50 kA 380/415 V)

ComPact NSX100/160/250N

With magnetic trip unit MA



ComPact NSX100N (50 kA at 380/415 V)

Rating	3P 3d
MA2.5	LV429755
MA6.3	LV429754
MA12.5	LV429753
MA25	LV429752
MA50	LV429751
MA100	LV429750

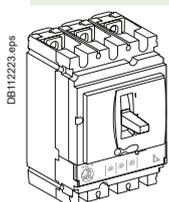
ComPact NSX160N (50 kA at 380/415 V)

Rating	3P 3d
MA100	LV430833
MA150	LV430832

ComPact NSX250N (50 kA at 380/415 V)

Rating	3P 3d
MA150	LV431753
MA220	LV431752

With electronic trip unit MicroLogic 2.2 M (LS_oJ motor protection)



ComPact NSX100N (50 kA at 380/415 V)

Rating	3P 3d
25 A	LV429833
50 A	LV429832
100 A	LV429830

ComPact NSX160N (50 kA at 380/415 V)

Rating	3P 3d
100 A	LV430989
150 A	LV430988

ComPact NSX250N (50 kA at 380/415 V)

Rating	3P 3d
150 A	LV431166
220 A	LV431165

With electronic trip unit MicroLogic 6.2 E-M (LSIG motor protection, energy meter)

To be ordered with 2 catalog numbers: 1 basic frame + 1 trip unit

INDUSTRIAL AUTOMATION



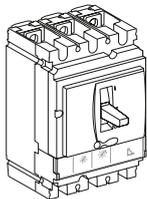
Complete fixed device

ComPact NSX100/160/250H (70 kA 380/415 V)

ComPact NSX100/160/250H

With thermal-magnetic trip unit TM-D

DB112222_4ps



ComPact NSX100H (70 kA at 380/415 V)

Rating	3P 3d	4P 3d	4P 4d
TM16D	LV429677	LV429687	LV429697
TM25D	LV429676	LV429686	LV429696
TM32D	LV429675	LV429685	LV429695
TM40D	LV429674	LV429684	LV429694
TM50D	LV429673	LV429683	LV429693
TM63D	LV429672	LV429682	LV429692
TM80D	LV429671	LV429681	LV429691
TM100D	LV429670	LV429680	LV429690

ComPact NSX160H (70 kA at 380/415 V)

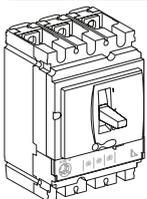
Rating	3P 3d	4P 3d	4P 4d
TM80D	LV430673	LV430683	LV430693
TM100D	LV430672	LV430682	LV430692
TM125D	LV430671	LV430681	LV430691
TM160D	LV430670	LV430680	LV430690

ComPact NSX250H (70 kA at 380/415 V)

Rating	3P 3d	4P 3d	4P 4d
TM125D	LV431673	LV431683	LV431693
TM160D	LV431672	LV431682	LV431692
TM200D	LV431671	LV431681	LV431691
TM250D	LV431670	LV431680	LV431690

With electronic trip unit MicroLogic 2.2 (LS_oI protection)

DB112223_4ps



ComPact NSX100H (70 kA at 380/415 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2
40 A	LV429792	LV429802
100 A	LV429790	LV429800

ComPact NSX160H (70 kA at 380/415 V)

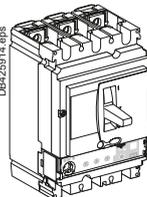
Rating	3P 3d	4P 3d, 4d, 3d + N/2
100 A	LV430791	LV430801
160 A	LV430790	LV430800

ComPact NSX250H (70 kA at 380/415 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2
100 A	LV431792	LV431802
160 A	LV431791	LV431801
250 A	LV431790	LV431800

With electronic trip unit MicroLogic Vigi 4.2 (LS_oIR protection)

DB425914_4ps



ComPact NSX100H (70 kA 380/415V)

Rating	3P 3d	4P 4d, 3d + N/2
40 A	LV433858	LV433866
100 A	LV433859	LV433867

ComPact NSX160H (70 kA 380/415V)

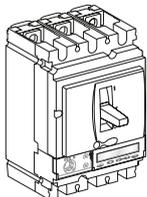
Rating	3P 3d	4P 4d, 3d + N/2
100 A	LV433860	LV433868
160 A	LV433861	LV433869

ComPact NSX250H (70 kA 380/415V)

Rating	3P 3d	4P 4d, 3d + N/2
100 A	LV433862	LV433870
160 A	LV433863	LV433871
250 A	LV433864	LV433872

With electronic trip unit MicroLogic 5.2 A (LSI protection, ammeter)

DB112224_4ps



ComPact NSX100H (70 kA at 380/415 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2, OSN
40 A	LV429794	LV429804
100 A	LV429793	LV429803

ComPact NSX160H (70 kA at 380/415 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2, OSN
100 A	LV430795	LV430805
160 A	LV430794	LV430804

ComPact NSX250H (70 kA at 380/415 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2, OSN
100 A	LV431797	LV431807
160 A	LV431796	LV431806
250 A	LV431795	LV431805

With electronic trip unit MicroLogic 5.2 E (LSI protection, energy meter)

To be ordered with 2 catalog numbers: 1 basic frame + 1 trip unit

With electronic trip unit MicroLogic 6.2 A (LSIG protection, ammeter)

To be ordered with 2 catalog numbers: 1 basic frame + 1 trip unit

With electronic trip unit MicroLogic 6.2 E (LSIG protection, energy meter)

To be ordered with 2 catalog numbers: 1 basic frame + 1 trip unit

Characteristics and performance

ComPact NSXm switch-disconnectors from 50 to 160 A NA

A

Common characteristics

Control	Manual	With toggle	<input checked="" type="radio"/>
		With direct or extended rotary handle	<input checked="" type="radio"/>
		With side rotary handle	<input checked="" type="radio"/>
Versions	Fixed		<input checked="" type="radio"/>

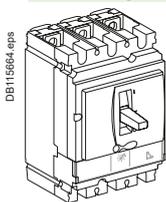
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	50	100	160
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	AC22A / AC23A	AC22A / AC23A	AC22A / AC23A
	50	100	160 / 100
	50	100	160 / 100
	50	100	160 / 100
	50	100	160 / 100
	50	100	160 / 100
	1.28	2.13	2.13
	150	150	150
	900	1500	1500
	900	1500	1500
	200	335	335
	20000	20000	20000
	AC22A / AC23A	AC22A / AC23A	AC22A / AC23A
	20000 / 20000	20000 / 20000	20000 / 20000
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	10000 / 6000	10000 / 6000	10000 / 6000
	5000 / 3000	5000 / 3000	5000 / 3000
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	108 x 137 x 80		
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	1.42		
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	35		
	95		
	70		
	120		
	95		
	<input checked="" type="radio"/>		

Complete fixed device

ComPact NSX100/160/250H (70 kA 380/415 V)

ComPact NSX100/160/250H

With magnetic trip unit MA



ComPact NSX100H (70 kA at 380/415 V)

Rating	3P 3d
MA2.5	LV429765
MA6.3	LV429764
MA12.5	LV429763
MA25	LV429762
MA50	LV429761
MA100	LV429760

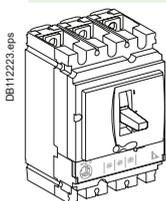
ComPact NSX160H (70 kA at 380/415 V)

Rating	3P 3d
MA100	LV430835
MA150	LV430834

ComPact NSX250H (70 kA at 380/415 V)

Rating	3P 3d
MA150	LV431757
MA220	LV431756

With electronic trip unit MicroLogic 2.2 M (LS_oI motor protection)



ComPact NSX100H (70 kA at 380/415 V)

Rating	3P 3d
25 A	LV429838
50 A	LV429837
100 A	LV429835

ComPact NSX160H (70 kA at 380/415 V)

Rating	3P 3d
100 A	LV430992
150 A	LV430991

ComPact NSX250H (70 kA at 380/415 V)

Rating	3P 3d
150 A	LV431171
220 A	LV431170

With electronic trip unit MicroLogic 6.2 E-M (LSIG motor protection, energy meter)

To be ordered with 2 catalog numbers: 1 basic frame + 1 trip unit

INDUSTRIAL AUTOMATION

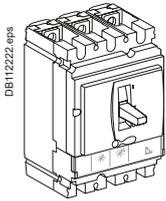


Complete fixed device

ComPact NSX100/250R (200 kA 380/415 V - 45 kA 690 V)

ComPact NSX100/250R

With thermal-magnetic trip unit TM-D



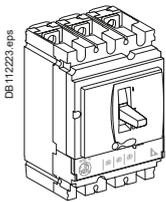
ComPact NSX100R (200 kA at 380/415 V - 45 kA at 690 V)

Rating	3P 3d	4P 4d
TM40D	LV433200	LV433201
TM50D	LV433202	LV433203
TM63D	LV433204	LV433205
TM80D	LV433206	LV433207
TM100D	LV433208	LV433209

ComPact NSX250R (200 kA at 380/415 V - 45 kA at 690 V)

Rating	3P 3d	4P 4d
TM125D	LV433470	LV433471
TM160D	LV433472	LV433473
TM200D	LV433474	LV433475
TM250D	LV433476	LV433477

With electronic trip unit MicroLogic 2.2 (LS_oI protection)



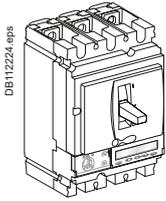
ComPact NSX100R (200 kA at 380/415 V - 45 kA at 690 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2
40 A	LV433270	LV433271
100 A	LV433272	LV433273

ComPact NSX250R (200 kA at 380/415 V - 45 kA at 690 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2
100 A	LV433510	LV433511
160 A	LV433512	LV433513
250 A	LV433514	LV433515

With electronic trip unit MicroLogic 5.2 E (LSI protection, energy meter)



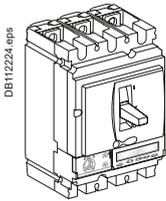
ComPact NSX100R (200 kA at 380/415 V - 45 kA at 690 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2, OSN
40 A	LV433277	LV433278
100 A	LV433279	LV433280

ComPact NSX250R (200 kA at 380/415 V - 45 kA at 690 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2, OSN
100 A	LV433518	LV433519
160 A	LV433520	LV433521
250 A	LV433522	LV433523

With electronic trip unit MicroLogic 6.2 E (LSIG protection, energy meter)



ComPact NSX100R (200 kA at 380/415 V - 45 kA at 690 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2, OSN
40 A	LV433281	LV433282
100 A	LV433283	LV433284

ComPact NSX250R (200 kA at 380/415 V - 45 kA at 690 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2, OSN
100 A	LV433524	LV433525
160 A	LV433526	LV433527
250 A	LV433528	LV433529

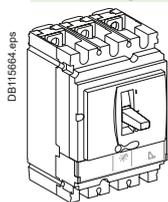
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Complete fixed device

ComPact NSX100/250R (200 kA 380/415 V - 45 kA 690 V)

ComPact NSX100/250R

With magnetic trip unit MA



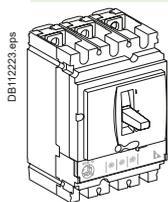
ComPact NSX100R (200 kA at 380/415 V - 45 kA at 690 V)

Rating	3P 3d
MA12.5	LV433242
MA25	LV433243
MA50	LV433244
MA100	LV433245

ComPact NSX250R (200 kA at 380/415 V - 45 kA at 690 V)

Rating	3P 3d
MA150	LV433500
MA220	LV433501

With electronic trip unit MicroLogic 2.2 M (LS_oI motor protection)



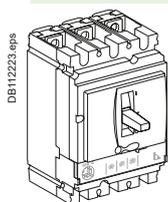
ComPact NSX100R (200 kA at 380/415 V - 45 kA at 690 V)

Rating	3P 3d
25 A	LV433274
50 A	LV433275
100 A	LV433276

ComPact NSX250R (200 kA at 380/415 V - 45 kA at 690 V)

Rating	3P 3d
150 A	LV433516
220 A	LV433517

With electronic trip unit MicroLogic 6.2 E-M (LSIG motor protection, energy meter)



ComPact NSX100R (200 kA at 380/415 V - 45 kA at 690 V)

Rating	3P 3d
25 A	LV433285
50 A	LV433286
80 A	LV433287

ComPact NSX250R (200 kA at 380/415 V - 45 kA at 690 V)

Rating	3P 3d
150 A	LV433530
220 A	LV433531

INDUSTRIAL AUTOMATION

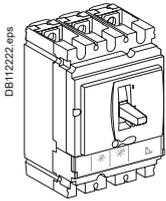


Complete fixed device

ComPact NSX100/250HB1 (85 kA 500 V - 75 kA 690 V)

ComPact NSX100/250HB1

With thermal-magnetic trip unit TM-D



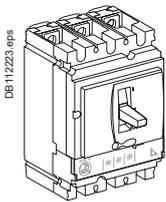
ComPact NSX100HB1 (85 kA at 500 V - 75 kA at 690 V)

Rating	3P 3d	4P 4d
TM40D	LV433210	LV433211
TM50D	LV433212	LV433213
TM63D	LV433214	LV433215
TM80D	LV433216	LV433217
TM100D	LV433218	LV433219

ComPact NSX250HB1 (85 kA at 500 V - 75 kA at 690 V)

Rating	3P 3d	4P 4d
TM125D	LV433478	LV433479
TM160D	LV433480	LV433481
TM200D	LV433482	LV433483
TM250D	LV433484	LV433485

With electronic trip unit MicroLogic 2.2 (LS₀I protection)



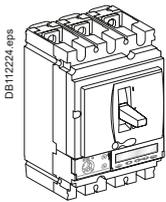
ComPact NSX100HB1 (85 kA at 500 V - 75 kA at 690 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2
40 A	LV433300	LV433301
100 A	LV433302	LV433303

ComPact NSX250HB1 (85 kA at 500 V - 75 kA at 690 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2
100 A	LV433540	LV433541
160 A	LV433542	LV433543
250 A	LV433544	LV433545

With electronic trip unit MicroLogic 5.2 E (LSI protection, energy meter)



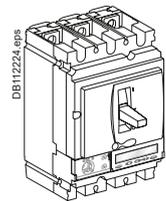
ComPact NSX100HB1 (85 kA at 500 V - 75 kA at 690 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2, OSN
40 A	LV433307	LV433308
100 A	LV433309	LV433310

ComPact NSX250HB1 (85 kA at 500 V - 75 kA at 690 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2, OSN
100 A	LV433548	LV433549
160 A	LV433550	LV433551
250 A	LV433552	LV433553

With electronic trip unit MicroLogic 6.2 E (LSIG protection, energy meter)



ComPact NSX100HB1 (85 kA at 500 V - 75 kA at 690 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2, OSN
40 A	LV433311	LV433312
100 A	LV433313	LV433314

ComPact NSX250HB1 (85 kA at 500 V - 75 kA at 690 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2, OSN
100 A	LV433554	LV433555
160 A	LV433556	LV433557
250 A	LV433558	LV433559

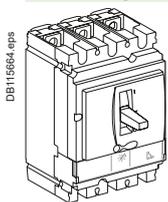
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Complete fixed device

ComPact NSX100/250HB1 (85 kA 500 V - 75 kA 690 V)

ComPact NSX100/250HB1

With magnetic trip unit MA



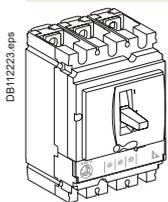
ComPact NSX100HB1 (85 kA at 500 V - 75 kA at 690 V)

Rating	3P 3d
MA12.5	LV433248
MA25	LV433249
MA50	LV433250
MA100	LV433251

ComPact NSX250HB1 (85 kA at 500 V - 75 kA at 690 V)

Rating	3P 3d
MA150	LV433502
MA220	LV433503

With electronic trip unit MicroLogic 2.2 M (LS_oI motor protection)



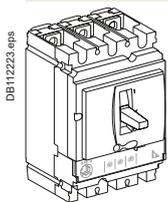
ComPact NSX100HB1 (85 kA at 500 V - 75 kA at 690 V)

Rating	3P 3d
25 A	LV433304
50 A	LV433305
100 A	LV433306

ComPact NSX250HB1 (85 kA at 500 V - 75 kA at 690 V)

Rating	3P 3d
150 A	LV433546
220 A	LV433547

With electronic trip unit MicroLogic 6.2 E-M (LSIG motor protection, energy meter)



ComPact NSX100HB1 (85 kA at 500 V - 75 kA at 690 V)

Rating	3P 3d
25 A	LV433315
50 A	LV433316
80 A	LV433317

ComPact NSX250HB1 (85 kA at 500 V - 75 kA at 690 V)

Rating	3P 3d
150 A	LV433560
220 A	LV433561

INDUSTRIAL AUTOMATION

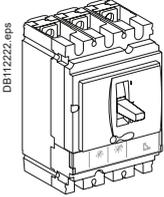


Complete fixed device

ComPact NSX100/250HB2 (100 kA 500 V - 100 kA 690 V)

ComPact NSX100/250HB2

With thermal-magnetic trip unit TM-D



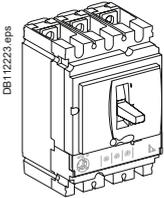
ComPact NSX100HB2 (100 kA at 500 V - 100 kA at 690 V)

Rating	3P 3d	4P 4d
TM63D	LV433224	LV433225
TM80D	LV433226	LV433227
TM100D	LV433228	LV433229

ComPact NSX250HB2 (100 kA at 500 V - 100 kA at 690 V)

Rating	3P 3d	4P 4d
TM125D	LV433486	LV433487
TM160D	LV433488	LV433489
TM200D	LV433490	LV433491
TM250D	LV433492	LV433493

With electronic trip unit MicroLogic 2.2 (LS₀I protection)



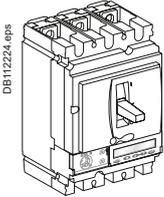
ComPact NSX100HB2 (100 kA at 500 V - 100 kA at 690 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2
40 A	LV433330	LV433331
100 A	LV433332	LV433333

ComPact NSX250HB2 (100 kA at 500 V - 100 kA at 690 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2
100 A	LV433570	LV433571
160 A	LV433572	LV433573
250 A	LV433574	LV433575

With electronic trip unit MicroLogic 5.2 E (LSI protection, energy meter)



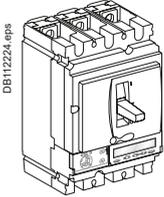
ComPact NSX100HB2 (100 kA at 500 V - 100 kA at 690 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2, OSN
40 A	LV433337	LV433338
100 A	LV433339	LV433340

ComPact NSX250HB2 (100 kA at 500 V - 100 kA at 690 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2, OSN
100 A	LV433578	LV433579
160 A	LV433580	LV433581
250 A	LV433582	LV433583

With electronic trip unit MicroLogic 6.2 E (LSIG protection, energy meter)



ComPact NSX100HB2 (100 kA at 500 V - 100 kA at 690 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2, OSN
40 A	LV433341	LV433342
100 A	LV433343	LV433344

ComPact NSX250HB2 (100 kA at 500 V - 100 kA at 690 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2, OSN
100 A	LV433584	LV433585
160 A	LV433586	LV433587
250 A	LV433588	LV433589

F

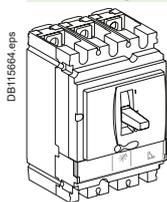


Complete fixed device

ComPact NSX100/250HB2 (100 kA 500 V - 100 kA 690 V)

ComPact NSX100/250HB2

With magnetic trip unit MA



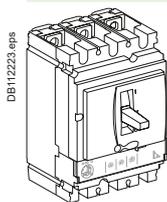
ComPact NSX100HB2 (100 kA at 500 V - 100 kA at 690 V)

Rating	3P 3d
MA12.5	LV433254
MA25	LV433255
MA50	LV433256
MA100	LV433257

ComPact NSX250HB2 (100 kA at 500 V - 100 kA at 690 V)

Rating	3P 3d
MA150	LV433504
MA220	LV433505

With electronic trip unit MicroLogic 2.2 M (LS_oI motor protection)



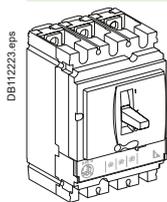
ComPact NSX100HB2 (100 kA at 500 V - 100 kA at 690 V)

Rating	3P 3d
25 A	LV433334
50 A	LV433335
100 A	LV433336

ComPact NSX250HB2 (100 kA at 500 V - 100 kA at 690 V)

Rating	3P 3d
150 A	LV433576
220 A	LV433577

With electronic trip unit MicroLogic 6.2 E-M (LSIG motor protection, energy meter)



ComPact NSX100HB2 (100 kA at 500 V - 100 kA at 690 V)

Rating	3P 3d
25 A	LV433345
50 A	LV433346
80 A	LV433347

ComPact NSX250HB2 (100 kA at 500 V - 100 kA at 690 V)

Rating	3P 3d
150 A	LV433590
220 A	LV433591

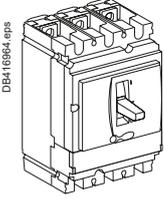
INDUSTRIAL AUTOMATION



Complete fixed device
Com**Pact** NSX100/160/250NA

Com**Pact** NSX100/160/250NA switch-disconnector

With NA switch-disconnector unit



Com Pact NSX100NA			
Rating	2P	3P	4P
100 A	LV429619	LV429629	LV429639
Com Pact NSX160NA			
Rating	2P	3P	4P
160 A	LV430619	LV430629	LV430639
Com Pact NSX250NA			
Rating	2P	3P	4P
250 A	LV431619	LV431629	LV431639



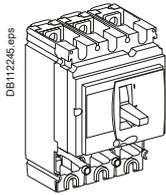
INDUSTRIAL AUTOMATION

F

Based on separate components

ComPact NSX100/160/250

Basic frame



ComPact NSX100

	3P	4P
NSX100B (25 kA 380/415 V)	LV429014	LV429015
NSX100F (36 kA 380/415 V)	LV429003	LV429008
NSX100N (50 kA 380/415 V)	LV429006	LV429011
NSX100H (70 kA 380/415 V)	LV429004	LV429009
NSX100S (100 kA 380/415 V)	LV429018	LV429019
NSX100L (150 kA 380/415 V)	LV429005	LV429010

ComPact NSX160

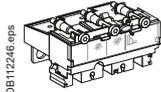
	3P	4P
NSX160B (25 kA 380/415 V)	LV430390	LV430395
NSX160F (36 kA 380/415 V)	LV430403	LV430408
NSX160N (50 kA 380/415 V)	LV430406	LV430411
NSX160H (70 kA 380/415 V)	LV430404	LV430409
NSX160S (100 kA 380/415 V)	LV430391	LV430396
NSX160L (150 kA 380/415 V)	LV430405	LV430410

ComPact NSX250

	3P	4P
NSX250B (25 kA 380/415 V)	LV431390	LV431395
NSX250F (36 kA 380/415 V)	LV431403	LV431408
NSX250N (50 kA 380/415 V)	LV431406	LV431411
NSX250H (70 kA 380/415 V)	LV431404	LV431409
NSX250S (100 kA 380/415 V)	LV431391	LV431396
NSX250L (150 kA 380/415 V)	LV431405	LV431410

+ Trip unit

Distribution protection



Thermal-magnetic TM-D

Rating	3P 3d	4P 3d	4P 4d
TM16D	LV429037	LV429047	LV429057
TM25D	LV429036	LV429046	LV429056
TM32D	LV429035	LV429045	LV429055
TM40D	LV429034	LV429044	LV429054
TM50D	LV429033	LV429043	LV429053
TM63D	LV429032	LV429042	LV429052
TM80D	LV429031	LV429041	LV429051
TM100D	LV429030	LV429040	LV429050
TM125D	LV430431	LV430441	LV430451
TM160D ^[1]	LV430430	LV430440	LV430450
TM160D ^[2]	LV431432	LV431442	LV431452
TM200D	LV431431	LV431441	LV431451
TM250D	LV431430	LV431440	LV431450

MicroLogic 2.2 (LS_oI protection)

Rating	3P 3d	4P 3d, 4d, 3d + N/2
40 A	LV429072	LV429082
100 A	LV429070	LV429080
160 A	LV430470	LV430480
250 A	LV431470	LV431480

MicroLogic 5.2 A (LSI protection, ammeter)

Rating	3P 3d	4P 3d, 4d, 3d + N/2, 3d + OSN
40 A	LV429091	LV429101
100 A	LV429090	LV429100
160 A	LV430490	LV430495
250 A	LV431490	LV431495

MicroLogic 5.2 E (LSI protection, energy meter)

Rating	3P 3d	4P 3d, 4d, 3d + N/2, 3d + OSN
40 A	LV429096	LV429106
100 A	LV429095	LV429105
160 A	LV430491	LV430496
250 A	LV431491	LV431496

MicroLogic 6.2 A (LSIG protection, ammeter)

Rating	3P 3d	4P 3d, 4d, 3d + N/2, 3d + OSN
40 A	LV429111	LV429136
100 A	LV429110	LV429135
160 A	LV430505	LV430515
250 A	LV431505	LV431515

MicroLogic 6.2 E (LSIG protection, energy meter)

Rating	3P 3d	4P 3d, 4d, 3d + N/2, 3d + OSN
40 A	LV429116	LV429141
100 A	LV429115	LV429140
160 A	LV430506	LV430516
250 A	LV431506	LV431516

[1] For NSX160.

[2] For NSX250.

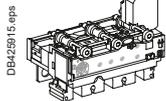
Based on separate components

ComPact NSX100/160/250

+ Trip unit (cont.)

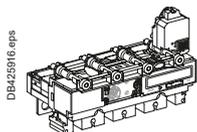
Distribution protection with embedded earth leakage protection

MicroLogic Vigi 4.2 (LS₀IR protection)



Rating	3P 3d	4P 4d 3d + N/2
40 A	LV433800	LV433805
100 A	LV433801	LV433806
160 A	LV433802	LV433807
250 A	LV433803	LV433808

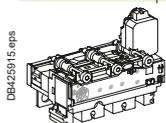
MicroLogic Vigi 7.2 E (LSIR protection)



Rating	3P 3d	4P 4d 3d + N/2
40 A	-	LV433879
100 A	-	LV433880
160 A	-	LV433881
250 A	-	LV433882

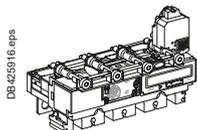
Distribution protection with embedded earth leakage alarm

MicroLogic Vigi 4.2 AL (LS₀I protection + earth leakage alarm)



Rating	3P 3d	4P 4d 3d + N/2
40 A	LV433884	LV433889
100 A	LV433885	LV433890
160 A	LV433886	LV433891
250 A	LV433887	LV433892

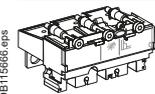
MicroLogic Vigi 7.2 E AL (LSI protection + earth leakage alarm)



Rating	3P 3d	4P 4d 3d + N/2
40 A	-	LV433898
100 A	-	LV433899
160 A	-	LV433900
250 A	-	LV433901

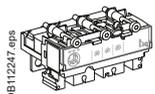
Motor protection

Magnetic MA (I protection)



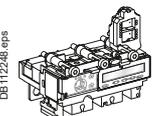
Rating	3P 3d	4P 3d
MA2.5	LV429125	
MA6.3	LV429124	
MA12.5	LV429123	
MA25	LV429122	
MA50	LV429121	
MA100	LV429120	LV429130
MA150	LV430500	LV430510
MA220	LV431500	LV431510

MicroLogic 2.2 M (LS₀I protection)



Rating	3P 3d
25 A	LV429174
50 A	LV429172
100 A	LV429170
150 A	LV430520
220 A	LV431520

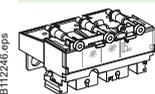
MicroLogic 6.2 E-M (LSIG protection, energy meter)



Rating	3P 3d
25 A	LV429184
50 A	LV429182
80 A	LV429180
150 A	LV430521
220 A	LV431521

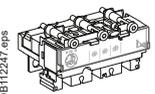
Generator protection

Thermal-magnetic TM-G



Rating	3P 3d	4P 4d
TM16G	LV429155	LV429165
TM25G	LV429154	LV429164
TM40G	LV429153	LV429163
TM63G	LV429152	LV429162
TM80G	LV430080	LV430092
TM100G	LV430081	LV430093
TM125G	LV430082	LV430094
TM160G	LV430083	LV430095
TM200G	LV430084	LV430096
TM250G	LV430085	LV430097

MicroLogic 2.2 G (LS₀I protection)



Rating	3P 3d	4P 3d, 4d, 3d + N/2
40 A	LV429076	LV429086
100 A	LV429075	LV429085
160 A	LV430475	LV430485
250 A	LV431475	LV431485

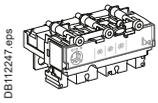
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Based on separate components

ComPact NSX100/160/250

+ Trip unit (cont.)

Protection of public distribution systems

MicroLogic 2.2 AB (LS₀I) protection)

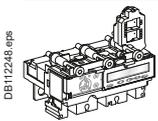
Rating	3P 3d	4P
100 A		LV434550
160 A		LV434551
240 A		LV434554

Earth Leakage protection of public distribution systems

MicroLogic Vigi 4.2 AB distribution protections

Rating	3P 3d	4P
100 A		LV433804
160 A		LV433809
250 A		LV433817

16 Hz 2/3 network protection

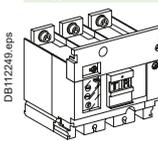


MicroLogic 5.2 A-Z (LSI protection, ammeter)

Rating	3P 3d	4P
100 A	LV429089	
250 A	LV431489	

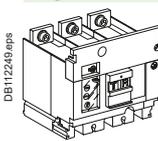
+ Vigi add-on or Vigi add-on Alarm

Vigi add-on



	3P	4P
ME type for NSX100/160 (200 to 440 V)	LV429212	LV429213
MH type for NSX100/160 (200 to 440 V)	LV429210	LV429211
MH type for NSX250 (200 to 440 V)	LV431535	LV431536
MH type for NSX100/160 (440 to 550 V)	LV429215	LV429216
MH type for NSX250 (440 to 550 V)	LV431533	LV431534
Connection for a 4P Vigi on a 3P breaker		LV429214

Vigi add-on Alarm



	3P	4P
200 to 440 V AC	LV429459	LV429460
Connection for a 4P insulation monitoring module on a 3P breaker		LV429214

INDUSTRIAL AUTOMATION

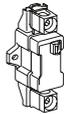
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Trip unit accessories

ComPact NSX100/160/250 with/without Vigi add-on

Trip unit accessories

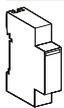
External neutral CT for 3 pole breaker with MicroLogic 5/6

	25-100 A	LV429521
	150-250 A	LV430563

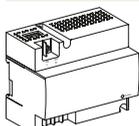
24 V DC wiring accessory for MicroLogic 5/6

	24 V DC power supply connector	LV434210
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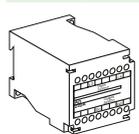
ZSI wiring accessory for NS630b NW with NSX

	ZSI module	LV434212
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External power supply module (24 V DC - 1 A), class 4

	24-30 V DC	LV454440
	48-60 V DC	LV454441
	100-125 V DC	LV454442
	110-130 V AC	LV454443
	200-240 V AC	LV454444

Battery module

	24 V DC battery module	54446
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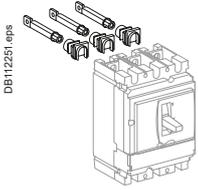
INDUSTRIAL AUTOMATION

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Installation and connection

ComPact NSX100/160/250 with/without Vigi add-on

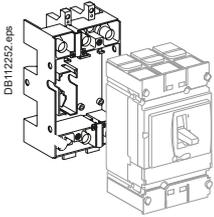
Fixed/RC device = fixed/FC device + rear connection kit



Short RC kit			
Kit 3P		3 x	LV429235
Kit 4P		4 x	LV429235
Mixed RC kit			
Kit 3P	Short RCs	2 x	LV429235
	Long RCs	1 x	LV429236
Kit 4P	Short RCs	2 x	LV429235
	Long RCs	2 x	LV429236

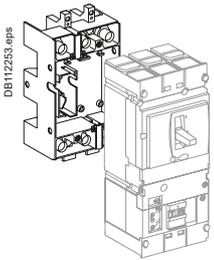
Plug-in version = fixed/FC device + plug-in kit

Kit for ComPact NSX



Plug-in kit	2P (3P) LV429288	3P LV429289	4P LV429290
Comprising:			
Base	= 1 x LV429265	= 1 x LV429266	= 1 x LV429267
Power connections	+ 2 x LV429268	+ 3 x LV429268	+ 4 x LV429268
Short terminal shields	+ 2 x LV429515	+ 2 x LV429515	+ 2 x LV429516
Safety trip interlock	+ 1 x LV429270	+ 1 x LV429270	+ 1 x LV429270

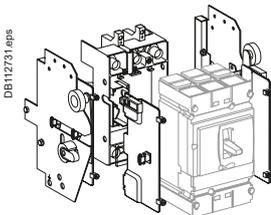
Kit for ComPact NSX Vigi add-on



ComPact NSX Vigi add-on plug-in kit	3P LV429291	4P LV429292
Comprising:		
Base	= 1 x LV429266	= 1 x LV429267
Power connections	+ 3 x LV429269	+ 4 x LV429269
Short terminal shields	+ 2 x LV429515	+ 2 x LV429516
Safety trip interlock	+ 1 x LV429270	+ 1 x LV429270

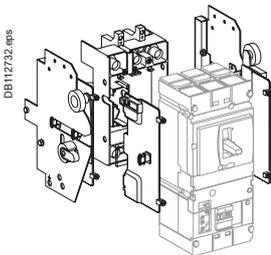
Withdrawable version = fixed/FC device + withdrawable kit

Kit for ComPact NSX



Plug-in kit	2P (3P) Kit for ComPact NSX = 1 x LV429288	3P Kit for ComPact NSX = 1 x LV429289	4P Kit for ComPact NSX = 1 x LV429290
Chassis side plates for base	+ 1 x LV429282	+ 1 x LV429282	+ 1 x LV429282
Chassis side plates for breaker	+ 1 x LV429283	+ 1 x LV429283	+ 1 x LV429283

Kit for ComPact NSX Vigi add-on



Plug-in kit	3P Kit for Vigi add-on = 1 x LV429291	4P Kit for Vigi add-on = 1 x LV429292
Chassis side plates for base	+ 1 x LV429282	+ 1 x LV429282
Chassis side plates for breaker	+ 1 x LV429283	+ 1 x LV429283

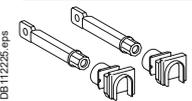


Accessories and auxiliaries

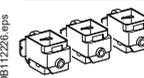
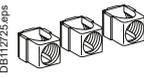
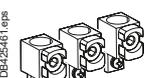
ComPact NSX100/160/250 with/without Vigi add-on

Connection accessories (Cu or Al)

Rear connections

	2 short	LV429235
	2 long	LV429236

Bare cable connectors

	Steel connectors	1 x (1.5 to 95 mm ²) ; ≤ 160 A	Set of 2	LV429246
			Set of 3	LV429242
			Set of 4	LV429243
	Aluminium connectors	1 x (25 to 95 mm ²) ; ≤ 250 A	Set of 2	LV429255
			Set of 3	LV429227
			Set of 4	LV429228
		1 x (120 to 185 mm ²) ; ≤ 250 A	Set of 2	LV429247
			Set of 3	LV429259
			Set of 4	LV429260
		1 x (120 to 240 mm ²) ; ≤ 250 A	Set of 3	LV429244
		Set of 4	LV429245	

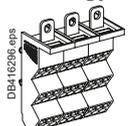
Clips for connectors		Set of 10	LV429241
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Aluminium connectors for 2 cables ^[1]	2 x (50 to 120 mm ²) ; ≤ 250 A	Set of 3	LV429218
		Set of 4	LV429219

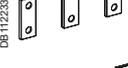
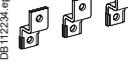
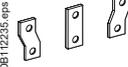
Aluminium connectors ^[1] for 6 cables	6 x (1.5 to 35 mm ²) ; ≤ 250 A	Set of 3	LV429248
		Set of 4	LV429249

6.35 mm voltage tap for aluminium connectors for 1 or 2 cables		Set of 10	LV429348
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Lineryg DX and Lineryg DP distribution block (for bare cable)

	160 A (40 °C) 6 cables S ≤ 10 mm ²	1P	04031
	250 A (40 °C) 9 cables S ≤ 10 mm ²	3P	04033
		4P	04034

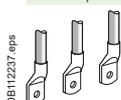
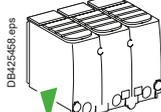
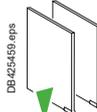
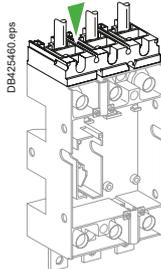
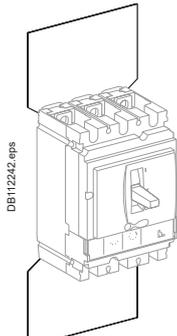
Terminal extensions

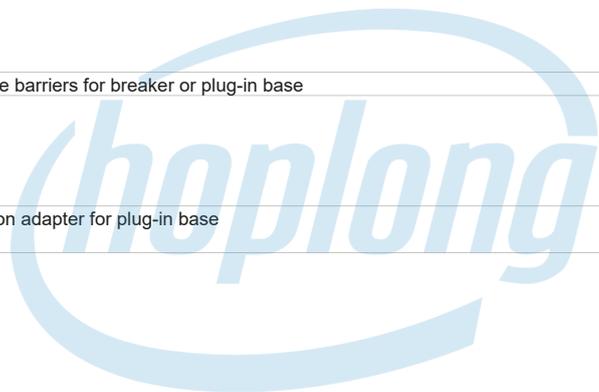
	45° terminal extension ^[1]	Set of 3	LV429223
		Set of 4	LV429224
	Edgewise terminal extensions ^[1]	Set of 3	LV429308
		Set of 4	LV429309
	Right-angle terminal extensions ^[1]	Set of 2	LV429250
		Set of 3	LV429261
		Set of 4	LV429262
	Straight terminal extensions ^[1]	Set of 2	LV429251
		Set of 3	LV429263
		Set of 4	LV429264
	Double-L terminal extensions ^[1]	Set of 3	LV429221
		Set of 4	LV429222
	Spreaders from 35 to 45 mm pitch ^[1]	3P	LV431563
		4P	LV431564
	One-piece spreader from 35 to 45 mm pitch	3P	LV431060
		4P	LV431061
	Front alignment base (for one-piece spreader)	3P/4P	LV431064

[1] Supplied with 2 or 3 interphase barriers.

Accessories and auxiliaries

ComPact NSX100/160/250 with/without Vigi add-on

Crimp lugs for copper cable ^[1]			
 DB112237.eps	For cable 120 mm ²	Set of 3	LV429252
		Set of 4	LV429256
	For cable 150 mm ²	Set of 3	LV429253
		Set of 4	LV429257
	For cable 185 mm ²	Set of 3	LV429254
		Set of 4	LV429258
Crimp lugs for aluminium cable ^[1]			
 DB112238.eps	For cable 150 mm ²	Set of 3	LV429504
		Set of 4	LV429505
	For cable 185 mm ²	Set of 3	LV429506
		Set of 4	LV429507
Insulation accessories			
 DB425457.eps	1 short terminal shield for breaker or plug-in base	3P	LV429515
		4P	LV429516
 DB425458.eps	1 long terminal shield for breaker or plug-in base	3P	LV429517
		4P	LV429518
 DB425459.eps	Interphase barriers for breaker or plug-in base	Set of 6	LV429329
 DB425460.eps	Connection adapter for plug-in base	3P	LV429306
		4P	LV429307
 DB112242.eps	2 insulating screens for breaker (45 mm pitch)	3P	LV429330
		4P	LV429331



INDUSTRIAL AUTOMATION

^[1] Supplied with 2 or 3 interphase barriers.



Accessories and auxiliaries

ComPact NSX100/160/250 with/without Vigi add-on

Electrical auxiliaries

Auxiliary contacts (changeover)

DB112254.eps 	OF or SD or SDE or SDV	29450
	OF or SD or SDE or SDV low level	29452
	SDE adapter, mandatory for trip unit TM, MA or MicroLogic 2	LV429451

SDx output module for MicroLogic

DB112275.eps 	SDx module 24/415 V AC/DC	LV429532
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SDTAM contactor tripping module (early-break thermal fault signal) for MicroLogic 2.2 M/6.2 E-M

DB112276.eps 	SDTAM 24/415 V AC/DC overload fault indication	LV429424
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Voltage releases

	Voltage	MX	MN	
DB111454.eps 	AC			
		24 V 50/60 Hz	LV429384	LV429404
		48 V 50/60 Hz	LV429385	LV429405
		110-130 V 50/60 Hz	LV429386	LV429406
		220-240 V 50/60 Hz and 208-277 V 60 Hz	LV429387	LV429407
		380-415 V 50 Hz and 440-480 V 60 Hz	LV429388	LV429408
DB115631.eps 	DC			
		525 V 50 Hz and 600 V 60 Hz	LV429389	LV429409
		12 V	LV429382	LV429402
		24 V	LV429390	LV429410
		30 V	LV429391	LV429411
		48 V	LV429392	LV429412
		60 V	LV429383	LV429403
		125 V	LV429393	LV429413
		250 V	LV429394	LV429414
		MN 48 V 50/60 Hz with fixed time delay		
Composed of:	MN 48 V DC		LV429412	
	Delay unit 48 V 50/60 Hz		LV429426	
	MN 220-240 V 50/60 Hz with fixed time delay			
Composed of:	MN 250 V DC		LV429414	
	Delay unit 220-240 V 50/60 Hz		LV429427	
	MN 48 V DC/AC 50/60 Hz with adjustable time delay			
Composed of:	MN 48 V DC		LV429412	
	Delay unit 48 V DC/AC 50/60 Hz		33680	
	MN 110-130 V DC/AC 50/60 Hz with adjustable time delay			
Composed of:	MN 125 V DC		LV429413	
	Delay unit 100-130 V DC/AC 50/60 Hz		33681	
	MN 220-250 V DC/AC 50/60 Hz with adjustable time delay			
Composed of:	MN 250 V DC		LV429414	
	Delay unit 200-250 V DC/AC 50-60 Hz		33682	

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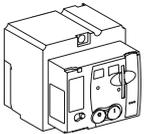


Accessories and auxiliaries

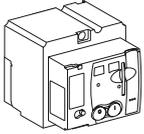
ComPact NSX100/160/250 with/without Vigi add-on

Motor mechanism

Motor mechanism module supplied with SDE adapter

	AC	Voltage	MT100/160	MT250
		48-60 V 50/60 Hz	LV429440	LV431548
	110-130 V 50/60 Hz	LV429433	LV431540	
	220-240 V 50/60 Hz and	LV429434	LV431541	
	208-277 V 60 Hz			
	380-415 V 50/60 Hz and	LV429435	LV431542	
	440-480 V 60 Hz			
	DC	24-30 V	LV429436	LV431543
	48-60 V	LV429437	LV431544	
	110-130 V	LV429438	LV431545	
250 V	LV429439	LV431546		

Communicating motor mechanism module supplied with SDE adapter

	Motor mechanism module	MTc 100/160	220-240 V 50/60 Hz	LV429441
		MTc 250	220-240 V 50/60 Hz	LV431549

+	Breaker and Status Communication Module	BSCM	LV434205
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+	NSX cord	Wire length L = 0.35 m	LV434200
		Wire length L = 1.3 m	LV434201
		Wire length L = 3 m	LV434202
		U > 480 V AC wire length L = 0.35 m	LV434204

INDUSTRIAL AUTOMATION



Accessories and auxiliaries

ComPact NSX100/160/250 with/without Vigi add-on

Indication and measurement modules

PowerLogic PowerTag NSX

	Rating (A)			250
	3P			LV434020
	3P+N			LV434021

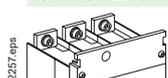
Ammeter module

	Rating (A)	100	160	250
	3P	LV429455	LV430555	LV431565
	4P	LV429456	LV430556	LV431566

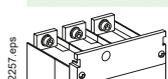
I max. ammeter module

	Rating (A)	100	160	250
	3P	LV434849	LV434850	LV434851

Current transformer module

	Rating (A)	100	150	250
	3P	LV429457	LV430557	LV431567
	4P	LV429458	LV430558	LV431568

Current transformer module and voltage output

	Rating (A)	125	150	250
	3P	LV429461	LV430561	LV431569
	4P	LV429462	LV430562	LV431570

Voltage presence indicator

	3P/4P	LV429325
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INDUSTRIAL AUTOMATION

Rotary handles

Direct rotary handle

	With black handle	LV429337
	With red handle on yellow front	LV429339
	MCC conversion accessory	LV429341
	CNOMO conversion accessory	LV429342

Extended rotary handle

	With black handle	LV429338
	With red handle on yellow front	LV429340
	With telescopic handle for withdrawable device	LV429343

	Open door shaft operator	LV426937
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Accessories for direct or extended rotary handle

Indication auxiliary	1 early-break contact	LV429345
	2 early-make contacts	LV429346

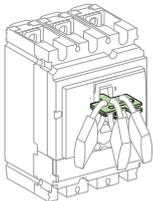
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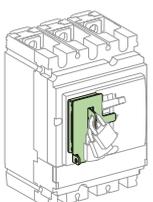
Accessories and auxiliaries

ComPact NSX100/160/250 with/without Vigi add-on

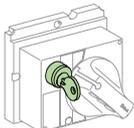
Locks

Toggle locking device for 1 to 3 padlocks

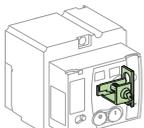
DB425402.eps		By removable device	29370
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DB425403.eps		By fixed device for 3P-4P (open or close position)	LV429371
		By fixed device for 3P-4P (open position only)	LV429370

Locking of rotary handle

DB425404.eps		Keylock adapter (keylock not included)	LV429344
		Keylock (keylock adapter not included)	41940
		Ronis 1351B.500 Profalux KS5 B24 D4Z	42888

Locking of motor mechanism module

DB425405.eps		Keylock adapter + Ronis keylock (special)	LV429449
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INDUSTRIAL AUTOMATION

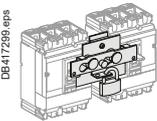
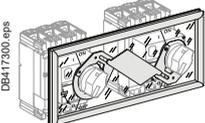


Accessories and auxiliaries

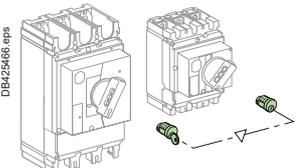
ComPact NSX100/160/250 with/without Vigi add-on

Interlocking

Mechanical interlocking for circuit breakers

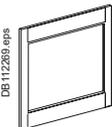
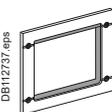
 <p>DB417299.eps</p>	With toggles	LV429354
	With rotary handles	LV429369
 <p>DB417300.eps</p>		

Interlocking with key (2 keylocks / 1 key) for rotary handles

 <p>DB425686.eps</p>	Keylock kit (keylock not included) ^[1]	LV429344	
	1 set of 2 keylocks	Ronis 1351B.500	41950
	(1 key only, keylock kit not included)	Profalux KS5 B24 D4Z	42878

Installation accessories

Front-panel escutcheons

 <p>DB112619.eps</p> <p>IP30</p>	IP30 escutcheon for all control types	LV429525
	IP30 trip unit access escutcheon for toggle	LV429526
	IP30 escutcheon for Vigi add-on	LV429527
 <p>DB112737.eps</p> <p>IP40</p>	IP40 escutcheon for all control types	LV429317
	IP40 escutcheon for Vigi add-on	LV429316
	IP40 escutcheon for Vigi add-on or ammeter module	LV429318

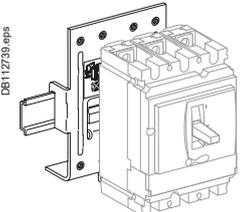
IP43 rubber toggle cover

 <p>DB112738.eps</p>	1 toggle cover	LV429319
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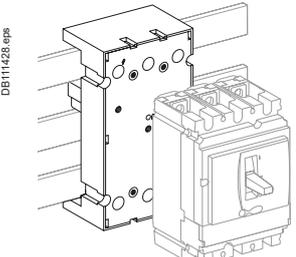
Lead-sealing accessories

 <p>DB115615.eps</p>	Bag of accessories	LV429375
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Din rail adapter

 <p>DB112739.eps</p>	1 adapter	LV429305
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60 mm plate

 <p>DB111428.eps</p>	Plate 3P ComPact NSX100/250 IEC	LV429372
	Plate 4P ComPact NSX100/250 IEC	LV429373

[1] For only 1 device.

ComPact NSX and NSXm, even more innovative and efficient

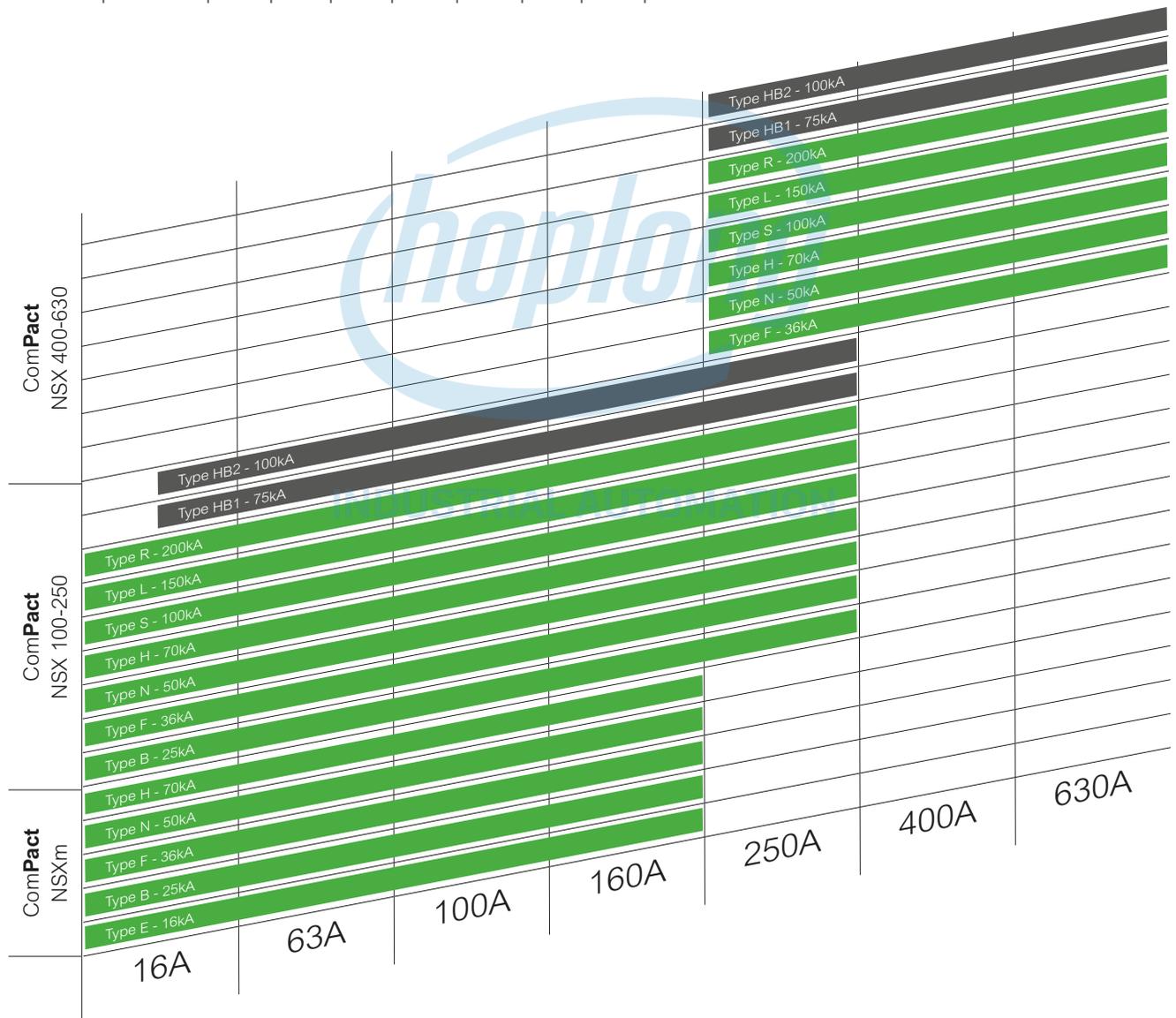
CÔNG TY CỔ PHẦN CÔNG NGHỆ HỢP LONG

ComPact circuit breakers feature Schneider Electric's exclusive Roto-Active Breaking System; it reduces the effects of short circuits of your installation.

Today, the ComPact range is optimized with a high level of breaking capacities, outstanding selectivity and cascading. It offers more advanced functions and ergonomic designs for easy installation and operations.

Ten performance levels

HB2 | HB1 | R | L | S | H | N | F | B | E



Icu = (kA rms) at 690V AC
 Icu = (kA rms) at 415V AC

Characteristics and performance

ComPact NSX switch-disconnectors from 100 to 630 A NA

A

Common characteristics			
Control	Manual	With toggle	<input type="radio"/>
		With direct or extended rotary handle	<input checked="" type="radio"/>
	Electrical	With remote control	<input checked="" type="radio"/>
Versions	Fixed		<input checked="" type="radio"/>
	Withdrawable	Plug-in base	<input checked="" type="radio"/>
		Chassis	<input checked="" type="radio"/>

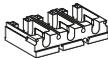
NSX100NA	NSX160NA	NSX250NA	NSX400NA	NSX630NA
100	160	250	400	630
2 [1], 3, 4	2 [1], 3, 4	2 [1], 3, 4	3, 4	3, 4
AC22A / AC23A				
100	160	250	400	630
100	160	250	400	630
100	160	250	400	630
100	160	250	400	630
100	160	250	400	630
DC22A / DC23A	DC22A / DC23A	DC22A / DC23A	-	-
100	160	250	-	-
100	160	250	-	-
100	160	250	-	-
2.6	3.6	4.9	7.1	8.5
330	330	330	330	330
1800	2500	3500	5000	6000
1800	2500	3500	5000	6000
690	960	1350	1930	2320
50000	40000	20000	15000	15000
AC22A / AC23A				
35000	30000	15000	10000	6000
20000	15000	7500	5000	3000
15000	10000	6000	5000	3000
8000	5000	3000	2500	1500
10000	10000	10000	-	-
5000	5000	5000	-	-
<input checked="" type="radio"/>				
3	3	3	3	3
<input checked="" type="radio"/>			<input checked="" type="radio"/>	
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<input checked="" type="radio"/>			<input checked="" type="radio"/>	
<input checked="" type="radio"/>			<input checked="" type="radio"/>	
105 x 161 x 86			140 x 255 x 110	
140 x 161 x 86			185 x 255 x 110	
1.5 to 1.8			5.2	
2.0 to 2.2			6.8	
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<input checked="" type="radio"/>			<input checked="" type="radio"/>	

Accessories and auxiliaries

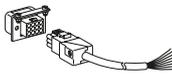
ComPact NSX100/160/250 with/without Vigi add-on

Plug-in/withdrawable version accessories

Insulation accessories

DB117159.eps 	1 connection adapter for plug-in base	3P	LV429306
		4P	LV429307

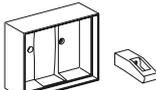
Auxiliary connections

DB117160.eps 	1 9-wire fixed connector (for base)		LV429273
DB117161.eps 	1 9-wire moving connector (for circuit breaker)		LV429274
DB117162.eps 	1 support for 2 moving connectors		LV429275
DB115885.eps 	9-wire manual auxiliary connector (fixed + moving)		LV429272

Plug-in base accessories

DB432605.eps 	2 long insulated right angle terminal extensions	Set of 2	LV429276
DB117165.eps 	2 IP40 shutters for base		LV429271
DB117166.eps 	Base	2P (3P base)	LV429265
		3P	LV429266
DB117167.eps 	Base	4P	LV429267
DB117168.eps 	2 power connections	2/3/4P	LV429268
DB117169.eps 	1 short terminal shield	2/3P	LV429515
DB117170.eps 	1 short terminal shield	4P	LV429516
DB117171.eps 	1 safety trip interlock	2/3/4P	LV429270

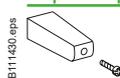
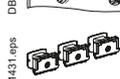
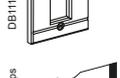
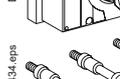
Chassis accessories

DB117172.eps 	Escutcheon collar	Toggle	LV429284
		Vigi add-on	LV429285
DB117173.eps 	Escutcheon collar		LV429286
DB117163.eps 	Locking kit (keylock not included)		LV429286
		Keylock (keylock adapter not included)	Ronis 1351B.500 Profalux KS5 B24 D4Z
DB11426.eps 	2 carriage switches (connected/disconnected position indication)		LV429287

Accessories and auxiliaries

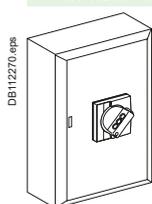
ComPact NSX100/160/250 with/without Vigi add-on

Spare parts

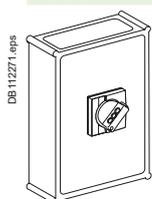
	5 spare toggle extensions (NSX250)		LV429313
	Bag of screws		LV429312
	12 snap-in nuts (fixed/FC)	M6 for NSX100N/H/L M8 for NSX160/250N/H/L	LV429234 LV430554
	NS retrofit escutcheon	Small cut-out	LV429528
	IP40 toggle escutcheon	ComPact NS type/small cut-out	29315
	1 set of 10 identification labels		LV429226
	1 base for extended rotary handle		LV429502
	Torque limiting screws (set of 12)	3P/4P ComPact NSX100-250	LV429513
	LCD display for electronic trip unit	MicroLogic 5 MicroLogic 6 MicroLogic 6 E-M	LV429483 LV429484 LV429486
	5 transparent covers for trip unit	TM, MA, NA MicroLogic 2 MicroLogic 5/6	LV429481 LV429481 LV429478

Individual enclosures

IP55 steel enclosure

	ComPact NSX100/160 with black extended rotary handle	LV431215
	ComPact NSX100/160 with red and yellow extended rotary handle	LV431216
	ComPact NSX250 or ComPact NSX100-250 Vigi add-on with black extended rotary handle	LV431217
	ComPact NSX250 or ComPact NSX100-250 Vigi add-on with red and yellow extended rotary handle	LV431218

IP55 insulating enclosure

	ComPact NSX100/160 with black extended rotary handle	LV429465
	ComPact NSX100/160 Vigi add-on with black extended rotary handle	LV429466
	ComPact NSX250 with black extended rotary handle	LV431573
	ComPact NSX250 Vigi add-on with black extended rotary handle	LV431574

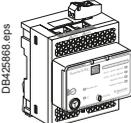
Visible break disconnect function

See catalog dealing with "ComPact INV products (visible break)" and the associated accessories.
The visible break disconnection function is compatible with fixed front-connected/rear-connected ComPact NSX devices.

Accessories and auxiliaries

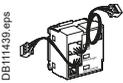
ComPact NSX100/160/250 with/without Vigi add-on

Communication option

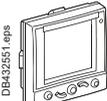
	IFE	Ethernet interface for LV breaker	LV434001
		Ethernet interface for LV breakers and gateway	LV434002
	IFM Modbus-SL interface module		LV434000
	I/O application module		LV434063
	User guide IFE		DOCA0084EN
	User guide I/O application module		DOCA0055EN

Monitoring and control (remote operation)

Circuit breaker accessories

	Breaker Status Control Module	BSCM ^[1]	LV434205
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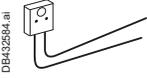
ULP display module^[2]

	Switchboard front display module FDM121		TRV00121
	FDM mounting accessory (diameter 22 mm)		TRV00128

Ethernet display module

	Switchboard front display module FDM128		LV434128
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ULP wiring accessories

	NSX cord L = 0.35 m		LV434200
	NSX cord L = 1.3 m		LV434201
	NSX cord L = 3 m		LV434202
	NSX cord for U > 480 V AC L = 1.3 m		LV434204
	10 stacking connectors for communication interface modules		TRV00217
	2 Modbus line terminators		VW3A8306DRC ^[3]
	Connector Modbus adaptor		LV434211
	RS 485 roll cable (4 wires, length 60 m)		50965
	5 RJ45 connectors female/female		TRV00870
	10 ULP line terminators		TRV00880
	10 RJ45/RJ45 male cord L = 0.3 m		TRV00803
	10 RJ45/RJ45 male cord L = 0.6 m		TRV00806
	5 RJ45/RJ45 male cord L = 1 m		TRV00810
	5 RJ45/RJ45 male cord L = 2 m		TRV00820
	5 RJ45/RJ45 male cord L = 3 m		TRV00830
	1 RJ45/RJ45 male cord L = 5 m		TRV00850

[1] SDE adapter mandatory for trip unit TM, MA or MicroLogic 2 (LV429451).

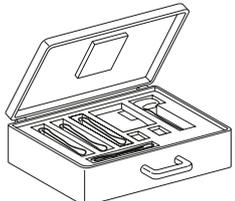
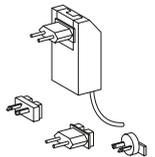
[2] For measurement display with MicroLogic A and E or status display with BSCM.

[3] www.schneider-electric.com.

Accessories and auxiliaries

ComPact NSX100/160/250 with/without Vigi add-on

Test tool, software, demo

Test tool		
	Pocket battery for MicroLogic NSX100-630	LV434206
	Maintenance case Comprising: - USB maintenance interface - Power supply - MicroLogic cord - USB cord - RJ45/RJ45 male cord	TRV00910
	Spare USB maintenance interface	TRV00911
	Spare power supply 110-240 V AC	TRV00915
	Spare MicroLogic cord for USB maintenance interface	TRV00917
	Bluetooth/Modbus option for USB maintenance interface	VW3A8114 ^[1]
Software		
	Configuration and setting EcoStruxure Power Commission software	LV4ST100 ^[2]
	Test software LTU	LV4ST121 ^[2]
	Monitoring EcoStruxure Power Commission software	LV4SM100 ^[2]
Demo tool		
	Demo case for ComPact NSX	LV434207

[1] See Telemecanique catalog.

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

Accessories and auxiliaries

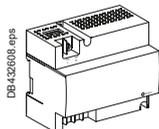
ComPact NSX100/160/250 with/without Vigi add-on

Accessories

Power supply modules

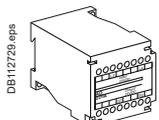


External power supply module 100-240 V AC 110-230 V DC / 24 V DC-3 A class 2	ABL8RPS24030	[1]
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External power supply module 24 V DC-1 A OVC IV		
24-30 V DC	LV454440	
48-60 V DC	LV454441	
100-125 V DC	LV454442	
110-130 V AC	LV454443	
200-240 V AC	LV454444	

Battery module



24 V DC battery module	54446	
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[1] See Telemecanique catalog.



INDUSTRIAL AUTOMATION

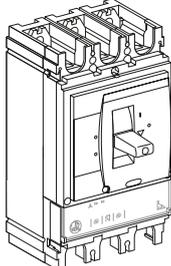


Complete fixed device

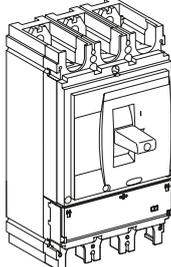
ComPact NSX400/630F (36 kA 380/415 V)

ComPact NSX400/630F

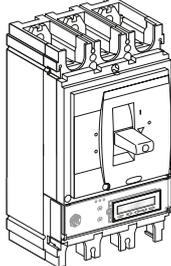
Electronic trip unit MicroLogic 2.3 (LS_oI protection)

			3P 3d	4P 3d, 4d, 3d + N/2
	ComPact NSX400F (36 kA at 380/415 V)	250 A	LV432682	LV432683
		400 A	LV432676	LV432677
	ComPact NSX630F (36 kA at 380/415 V)	630 A	LV432876	LV432877

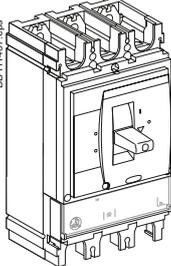
Electronic trip unit MicroLogic Vigi 4.3 (LS_oIR protection)

			3P 3d	4P 4d 3d + N/2
	ComPact NSX400F (36 kA at 380/415 V)	400 A	LV433934	LV433936
	ComPact NSX400F (36 kA at 380/415 V)	570 A	LV433935	LV433937

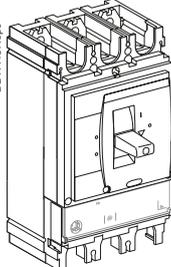
Electronic trip unit MicroLogic 5.3 A (LSI protection, ammeter)

			3P 3d	4P 3d, 4d, 3d + N/2, 3d + OSN
	ComPact NSX400F (36 kA at 380/415 V)	400 A	LV432678	LV432679
	ComPact NSX630F (36 kA at 380/415 V)	630 A	LV432878	LV432879

Electronic trip unit MicroLogic 1.3 M (I motor protection)

			3P 3d	
	ComPact NSX400F 1.3 M (36 kA at 380/415V)	320 A	LV432748	
	ComPact NSX630F 1.3 M (36 kA at 380/415V)	500 A	LV432948	

Electronic trip unit MicroLogic 2.3 M (LS_oI motor protection)

			3P 3d	
	ComPact NSX400F 2.3 M (36 kA at 380/415V)	320 A	LV432775	
	ComPact NSX630F 2.3 M (36 kA at 380/415V)	500 A	LV432975	

With electronic trip unit MicroLogic 5.3 E (LSI protection, energy meter)

To be ordered with 2 catalog numbers: 1 basic frame + 1 trip unit

With electronic trip unit MicroLogic 6.3 A (LSIG protection, ammeter)

To be ordered with 2 catalog numbers: 1 basic frame + 1 trip unit

With electronic trip unit MicroLogic 6.3 E (LSIG protection, energy meter)

To be ordered with 2 catalog numbers: 1 basic frame + 1 trip unit

With electronic trip unit MicroLogic 6.3 E-M (LSIG motor protection, energy meter)

To be ordered with 2 catalog numbers: 1 basic frame + 1 trip unit

F



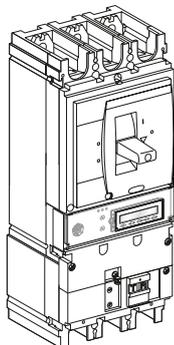
Complete fixed device

ComPact NSX400/630F Vigi add-on (36 kA 380/415 V)

ComPact NSX400/630F Vigi add-on

Electronic trip unit MicroLogic 2.3 (LS₀I protection)

DB111458.eps



		3P 3d	4P 3d, 4d, 3d + N/2
ComPact NSX400F Vigi add-on (36 kA at 380/415 V)	400 A	LV432731	LV432732
ComPact NSX630F Vigi add-on (36 kA at 380/415 V)	630 A	LV432931	LV432932

With electronic trip unit MicroLogic 5.3 E (LSI protection, energy meter)

To be ordered with 2 catalog numbers: 1 basic frame + 1 trip unit

With electronic trip unit MicroLogic 6.3 A (LSIG protection, ammeter)

To be ordered with 2 catalog numbers: 1 basic frame + 1 trip unit

With electronic trip unit MicroLogic 6.3 E (LSIG protection, energy meter)

To be ordered with 2 catalog numbers: 1 basic frame + 1 trip unit

With electronic trip unit MicroLogic 6.3 E-M (LSIG motor protection, energy meter)

To be ordered with 2 catalog numbers: 1 basic frame + 1 trip unit

INDUSTRIAL AUTOMATION

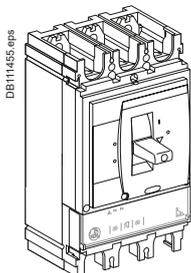


Complete fixed device

ComPact NSX400/630N (50 kA 380/415 V)

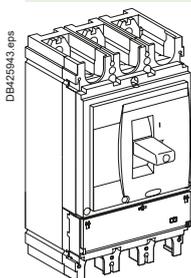
ComPact NSX400/630N

Electronic trip unit MicroLogic 2.3 (LS₀I protection)



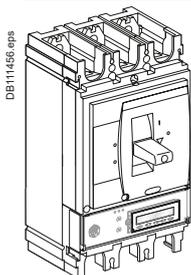
ComPact NSX400N (50 kA at 380/415 V)	250 A	3P 3d LV432707	4P 3d, 4d, 3d + N/2 LV432708
	400 A	LV432693	LV432694
ComPact NSX630N (50 kA at 380/415 V)	630 A	LV432893	LV432894

Electronic trip unit MicroLogic Vigi 4.3 (LS₀IR protection)



ComPact NSX400N (50 kA at 380/415 V)	400 A	3P 3d LV433938	4P 4d 3d + N/2 LV433940
	ComPact NSX630N (50 kA at 380/415 V)	570 A	LV433939

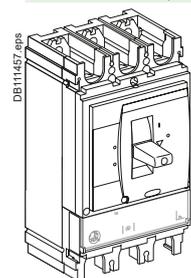
Electronic trip unit MicroLogic 5.3 A (LSI protection, ammeter)



ComPact NSX400N (50 kA at 380/415 V)	400 A	3P 3d LV432699	4P 3d, 4d, 3d + N/2, 3d + OSN LV432700
	ComPact NSX630N (50 kA at 380/415 V)	630 A	LV432899

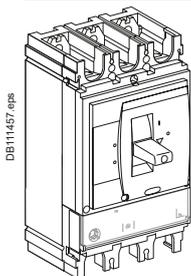
INDUSTRIAL AUTOMATION

Electronic trip unit MicroLogic 1.3 M A (I motor protection)



ComPact NSX400N 1.3 M (50 kA at 380/415V)	320 A	3P 3d LV432749	
	ComPact NSX630N 1.3 M (50 kA at 380/415V)	500 A	LV432949

Electronic trip unit MicroLogic 2.3 M (LS₀I motor protection)



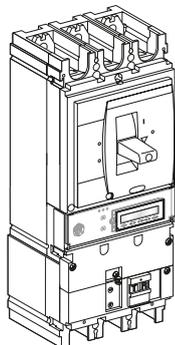
ComPact NSX400N 2.3 M (50 kA at 380/415V)	320 A	3P 3d LV432776	
	ComPact NSX630N 2.3 M (50 kA at 380/415V)	500 A	LV432976

Complete fixed device
ComPact NSX400/630N Vigi add-on (50 kA 380/415 V)

ComPact NSX400/630N Vigi add-on

Electronic trip unit MicroLogic 2.3 (LS₀I protection)

DB111458.eps



		3P 3d	4P 3d, 4d, 3d + N/2
ComPact NSX400N Vigi add-on (50 kA at 380/415 V) 400 A	LV432733		LV432734
ComPact NSX630N Vigi add-on (50 kA at 380/415 V) 630 A	LV432933		LV432934

With electronic trip unit MicroLogic 5.3 E (LSI protection, energy meter)

To be ordered with 2 catalog numbers: 1 basic frame + 1 trip unit



INDUSTRIAL AUTOMATION

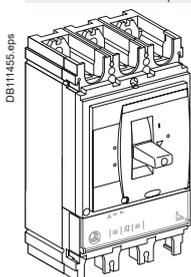


Complete fixed device

ComPact NSX400/630H (70 kA 380/415 V)

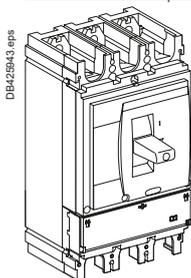
ComPact NSX400/630H

Electronic trip unit MicroLogic 2.3 (LS₀I protection)



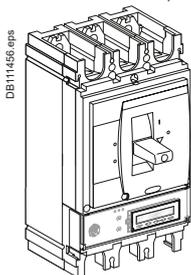
		3P 3d	4P 3d, 4d, 3d + N/2
ComPact NSX400H (70 kA at 380/415 V)	250 A	LV432709	LV432710
	400 A	LV432695	LV432696
ComPact NSX630H (70 kA at 380/415 V)	630 A	LV432895	LV432896

Electronic trip unit MicroLogic Vigi 4.3 (LS₀IR protection)



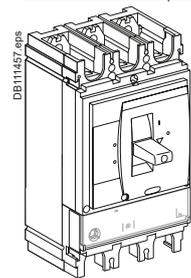
		3P 3d	4P 4d 3d + N/2
ComPact NSX400H (70 kA at 380/415 V)	400 A	LV433942	LV433944
ComPact NSX630H (70 kA at 380/415 V)	570 A	LV433943	LV433945

Electronic trip unit MicroLogic 5.3 A (LSI protection, ammeter)



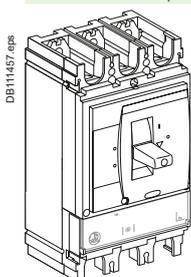
		3P 3d	4P 3d, 4d, 3d + N/2, 3d + OSN
ComPact NSX400H (70 kA at 380/415 V)	400 A	LV432701	LV432702
ComPact NSX630H (70 kA at 380/415 V)	630 A	LV432901	LV432902

Electronic trip unit MicroLogic 1.3 M (I motor protection)



		3P 3d
ComPact NSX400H 1.3 M (70 kA at 380/415V)	320 A	LV432750
ComPact NSX630H 1.3 M (70 kA at 380/415V)	500 A	LV432950

Electronic trip unit MicroLogic 2.3 M (LS₀I motor protection)



		3P 3d
ComPact NSX400H 2.3 M (70 kA at 380/415V)	320 A	LV432777
ComPact NSX630H 2.3 M (70 kA at 380/415V)	500 A	LV432977

With electronic trip unit MicroLogic 6.3 E (LSIG protection, energy meter)

Only available as separate components.

With electronic trip unit MicroLogic 6.3 E-M (LSIG motor protection, energy meter)

Only available as separate components.



INDUSTRIAL AUTOMATION

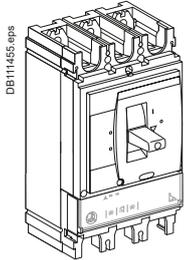
F

Complete fixed device

ComPact NSX400/630R (200 kA 380/415 V - 45 kA 690 V)

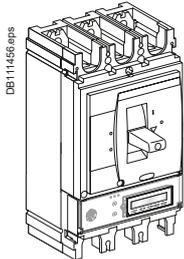
ComPact NSX400/630R

Electronic trip unit MicroLogic 2.3 (LS₀I protection)



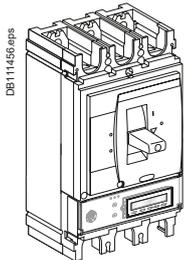
DB11455.eps	NSX400R (200 kA at 380/415 V - 45 kA at 690 V)	250 A	3P 3d	4P 3d, 4d, 3d + N/2
		400 A	LV433600	LV433601
	NSX630R (200 kA at 380/415 V - 45 kA at 690 V)	630 A	LV433602	LV433603
			LV433700	LV433701

Electronic trip unit MicroLogic 5.3 E (LSI protection, energy meter)



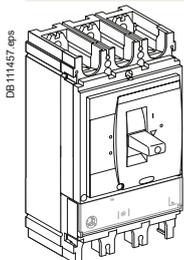
DB11456.eps	NSX400R (200 kA at 380/415 V - 45 kA at 690 V)	400 A	3P 3d	4P 3d, 4d, 3d + N/2, 3d + OSN
		630 A	LV433606	LV433607
	NSX630R (200 kA at 380/415 V - 45 kA at 690 V)	630 A	LV433704	LV433705

Electronic trip unit MicroLogic 6.3 E (LSIG protection, energy meter)



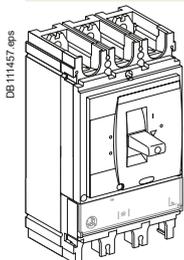
DB11456.eps	NSX400R (200 kA at 380/415 V - 45 kA at 690 V)	400 A	3P 3d	4P 3d, 4d, 3d + N/2, 3d + OSN
		630 A	LV433608	LV433609
	NSX630R (200 kA at 380/415 V - 45 kA at 690 V)	630 A	LV433706	LV433707

Electronic trip unit MicroLogic 1.3 M (I motor protection)



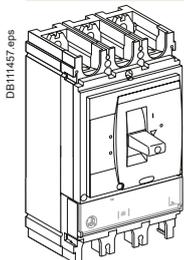
DB11457.eps	NSX400R (200 kA at 380/415 V - 45 kA at 690 V)	320 A	3P 3d	
		500 A	LV433604	
	NSX630R (200 kA at 380/415 V - 45 kA at 690 V)	500 A	LV433702	

Electronic trip unit MicroLogic 2.3 M (LS₀I motor protection)



DB11457.eps	NSX400R (200 kA at 380/415 V - 45 kA at 690 V)	320 A	3P 3d	
		500 A	LV433605	
	NSX630R (200 kA at 380/415 V - 45 kA at 690 V)	500 A	LV433703	

With electronic trip unit MicroLogic 6.3 E-M (LSIG motor protection, energy meter)



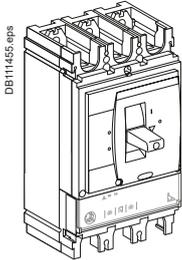
DB11457.eps	NSX400R (200 kA at 380/415 V - 45 kA at 690 V)	320 A	3P 3d	
		500 A	LV433610	
	NSX630R (200 kA at 380/415 V - 45 kA at 690 V)	500 A	LV433708	

Complete fixed device

ComPact NSX400/630HB1 (85 kA 500 V - 75 kA 690 V)

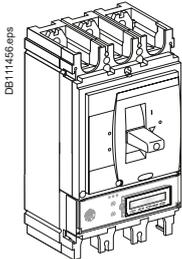
ComPact NSX400/630HB1

Electronic trip unit MicroLogic 2.3 (LS₀I protection)



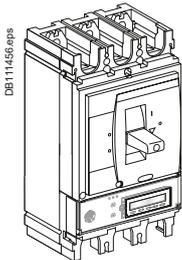
NSX400HB1 (85 kA at 500 V - 75 kA at 690 V)	250 A	3P 3d LV433620	4P 3d, 4d, 3d + N/2 LV433621
	400 A	LV433622	LV433623
NSX630HB1 (85 kA at 500 V - 75 kA at 690 V)	630 A	LV433720	LV433721

Electronic trip unit MicroLogic 5.3 E (LSI protection, energy meter)



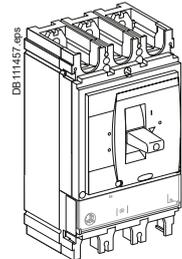
NSX400HB1 (85 kA at 500 V - 75 kA at 690 V)	400 A	3P 3d LV433626	4P 3d, 4d, 3d + N/2, 3d + OSN LV433627
NSX630HB1 (85 kA at 500 V - 75 kA at 690 V)	630 A	LV433724	LV433725

Electronic trip unit MicroLogic 6.3 E (LSIG protection, energy meter)



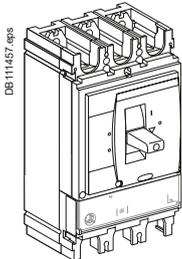
NSX400HB1 (85 kA at 500 V - 75 kA at 690 V)	400 A	3P 3d LV433628	4P 3d, 4d, 3d + N/2, 3d + OSN LV433629
NSX630HB1 (85 kA at 500 V - 75 kA at 690 V)	630 A	LV433726	LV433727

Electronic trip unit MicroLogic 1.3 M (I motor protection)



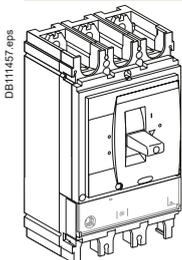
NSX400HB1 (85 kA at 500 V - 75 kA at 690 V)	320 A	3P 3d LV433624	
NSX630HB1 (85 kA at 500 V - 75 kA at 690 V)	500 A	LV433722	

Electronic trip unit MicroLogic 2.3 M (LS₀I motor protection)



NSX400HB1 (85 kA at 500 V - 75 kA at 690 V)	320 A	3P 3d LV433625	
NSX630HB1 (85 kA at 500 V - 75 kA at 690 V)	500 A	LV433723	

With electronic trip unit MicroLogic 6.3 E-M (LSIG motor protection, energy meter)



NSX400HB1 (85 kA at 500 V - 75 kA at 690 V)	320 A	3P 3d LV433630	
NSX630HB1 (85 kA at 500 V - 75 kA at 690 V)	500 A	LV433728	

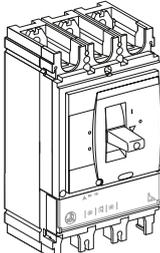
F

Complete fixed device

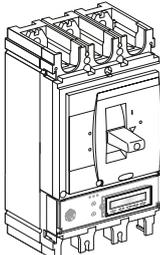
ComPact NSX400/630HB2 (85 kA 500 V - 100 kA 690 V)

ComPact NSX400/630HB2

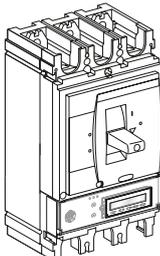
Electronic trip unit MicroLogic 2.3 (LS₀I protection)

DB11455.eps 	NSX400HB2 (85 kA at 500 V - 100 kA at 690 V)	250 A	3P 3d	LV433640	4P 3d, 4d, 3d + N/2
		400 A		LV433642	LV433643
	NSX630HB2 (85 kA at 500 V - 100 kA at 690 V)	630 A		LV433740	LV433741

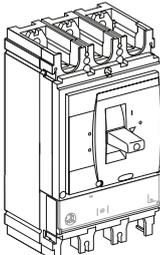
Electronic trip unit MicroLogic 5.3 E (LSI protection, energy meter)

DB11456.eps 	NSX400HB2 (85 kA at 500 V - 100 kA at 690 V)	400 A	3P 3d	LV433646	4P 3d, 4d, 3d + N/2, 3d + OSN
	NSX630HB2 (85 kA at 500 V - 100 kA at 690 V)	630 A		LV433744	LV433745

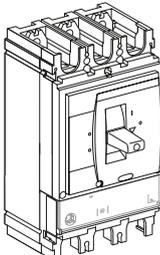
Electronic trip unit MicroLogic 6.3 E (LSIG protection, energy meter)

DB11456.eps 	NSX400HB2 (85 kA at 500 V - 100 kA at 690 V)	400 A	3P 3d	LV433648	4P 3d, 4d, 3d + N/2, 3d + OSN
	NSX630HB2 (85 kA at 500 V - 100 kA at 690 V)	630 A		LV433746	LV433749

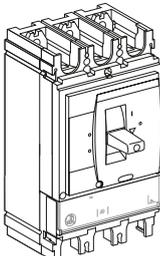
Electronic trip unit MicroLogic 1.3 M (I motor protection)

DB11457.eps 	NSX400HB2 (85 kA at 500 V - 100 kA at 690 V)	320 A	3P 3d	LV433644	
	NSX630HB2 (85 kA at 500 V - 100 kA at 690 V)	500 A		LV433742	

Electronic trip unit MicroLogic 2.3 M (LS₀I motor protection)

DB11457.eps 	NSX400HB2 (85 kA at 500 V - 100 kA at 690 V)	320 A	3P 3d	LV433645	
	NSX630HB2 (85 kA at 500 V - 100 kA at 690 V)	500 A		LV433743	

With electronic trip unit MicroLogic 6.3 E-M (LSIG motor protection, energy meter)

DB11457.eps 	NSX400HB2 (85 kA at 500 V - 100 kA at 690 V)	320 A	3P 3d	LV433650	
	NSX630HB2 (85 kA at 500 V - 100 kA at 690 V)	500 A		LV433748	

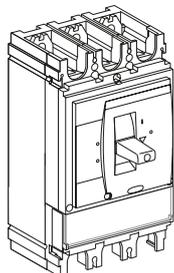


Complete fixed device
Com**Pact** NSX400/630NA

Com**Pact** NSX400/630 NA switch-disconnector

With NA switch-disconnector unit

DB111459.eps



	3P	4P
ComPact NSX400 NA	LV432756	LV432757
ComPact NSX630 NA, 45 mm pitch	LV432956	LV432957



INDUSTRIAL AUTOMATION

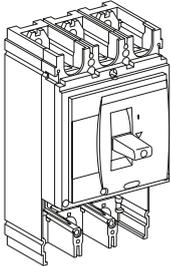
F

Based on separate components

ComPact NSX and ComPact NSX Vigi add-on

Basic frame

DB11460.eps



ComPact NSX400

	3P	4P
NSX400F (36 kA 380/415 V)	LV432413	LV432415
NSX400N (50 kA 380/415 V)	LV432403	LV432408
NSX400H (70 kA 380/415 V)	LV432404	LV432409
NSX400S (100 kA 380/415 V)	LV432414	LV432416
NSX400L (150 kA 380/415 V)	LV432405	LV432410

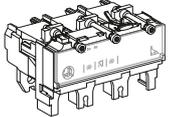
ComPact NSX630

	3P	4P
NSX630F (36 kA 380/415 V)	LV432813	LV432815
NSX630N (50 kA 380/415 V)	LV432803	LV432808
NSX630H (70 kA 380/415 V)	LV432804	LV432809
NSX630S (100 kA 380/415 V)	LV432814	LV432816
NSX630L (150 kA 380/415 V)	LV432805	LV432810

+ Trip unit

Distribution protection

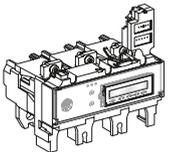
DB11461.eps



MicroLogic 2.3 (LS₀I protection)

Rating	3P 3d	4P 3d, 4d, 3d + N/2
MicroLogic 2.3 250 A	LV432082	LV432086
MicroLogic 2.3 400 A	LV432081	LV432085
MicroLogic 2.3 630 A	LV432080	LV432084

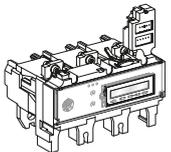
DB11462.eps



MicroLogic 5.3 A (LSI protection, ammeter)

Rating	3P 3d	4P 3d, 4d, 3d + N/2, 3d + OSN
MicroLogic 5.3 A 400 A	LV432091	LV432094
MicroLogic 5.3 A 630 A	LV432090	LV432093

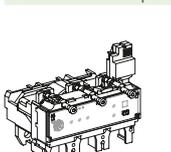
DB11462.eps



MicroLogic 5.3 E (LSI protection, energy meter)

Rating	3P 3d	4P 3d, 4d, 3d + N/2, 3d + OSN
MicroLogic 5.3 E 400 A	LV432097	LV432100
MicroLogic 5.3 E 630 A	LV432096	LV432099

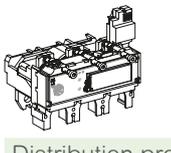
DB11462.eps



MicroLogic 6.3 A (LSIG protection, ammeter)

Rating	3P 3d	4P 3d, 4d, 3d + N/2, 3d + OSN
MicroLogic 6.3 A 400 A	LV432103	LV432106
MicroLogic 6.3 A 630 A	LV432102	LV432105

DB42597.eps



MicroLogic 6.3 E (LSIG protection, energy meter)

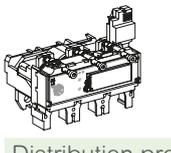
Rating	3P 3d	4P 3d, 4d, 3d + N/2, 3d + OSN
MicroLogic 6.3 E 400 A	LV432109	LV432112
MicroLogic 6.3 E 630 A	LV432108	LV432111

Distribution protection with embedded earth leakage protection

With electronic trip unit MicroLogic Vigi 4.3 (LS₀IR protection)

Rating	3P 3d	4P 4d 3d + N/2
400 A	LV433930	LV433932
570 A	LV433931	LV433933

DB42598.eps



With electronic trip unit MicroLogic Vigi 7.3 E (LSIR protection)

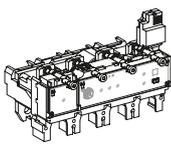
Rating	3P 3d	4P 4d 3d + N/2
400 A	LV433950	LV433952
570 A	LV433951	LV433953

Distribution protection with embedded earth leakage protection alarm

With electronic trip unit MicroLogic Vigi 4.3 AL (LS₀I protection + earth leakage alarm)

Rating	3P 3d	4P 4d 3d + N/2
400 A	LV433960	LV433962
570 A	LV433961	LV433963

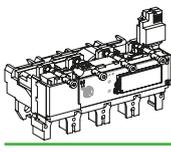
DB42599.eps



With electronic trip unit MicroLogic Vigi 7.3 E AL (LSI protection + earth leakage alarm)

Rating	3P 3d	4P 4d 3d + N/2
400 A	LV433965	LV433967
570 A	LV433966	LV433968

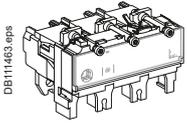
DB42599.eps



Based on separate components
Com**Pact** NSX400/630

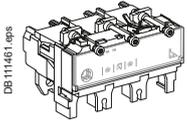
+ Trip unit

Motor protection



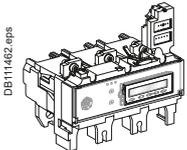
MicroLogic 1.3 M (I protection)

Rating	3P 3d	4P 3d
MicroLogic 1.3 M 320 A	LV432069	LV432078
MicroLogic 1.3 M 500 A	LV432068	LV432077



MicroLogic 2.3 M (LS₀I protection)

Rating	3P 3d
MicroLogic 2.3 M 320 A	LV432072
MicroLogic 2.3 M 500 A	LV432071



MicroLogic 6.3 E-M (LSIG protection, energy meter)

Rating	3P 3d
MicroLogic 6.3 E-M 320 A	LV432075
MicroLogic 6.3 E-M 500 A	LV432074

Protection of public distribution systems

MicroLogic 2.3 AB (LS₀I protection)

Rating	4P 3d, 4d, 3d + N/2
MicroLogic 2.3 400 A	LV434557

16 Hz 2/3 network protection

MicroLogic 5.3 A-Z (LSI protection, ammeter)

Rating	3P 3d
MicroLogic 5.3 A-Z 630 A	LV432089

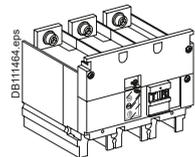
Earth Leakage protection of public distribution systems

MicroLogic Vigi 4.3 AB distribution protections

Rating	4P 4d 3d + N/2
400 A	LV433948

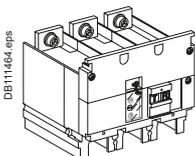
+ Vigi add-on or Vigi add-on Alarm

Vigi add-on



Type MB	200 to 440 V	3P	4P
	440 to 550 V	LV432455	LV432456
Connection for a 4P Vigi add-on on a 3P breaker		LV432453	LV432454
			LV432457

Vigi add-on Alarm



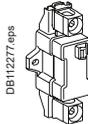
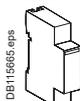
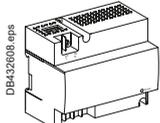
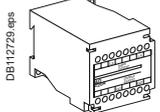
200 to 440 V AC	3P	4P
Connection for a 4P insulation monitoring module on a 3P breaker	LV432659	LV432660
		LV432457

F

Trip unit accessories

ComPact NSX400/630 with/without Vigi add-on

Trip unit accessories

External neutral CT for 3 pole breaker with MicroLogic 5/6	
	400-630 A LV432575
24 V DC wiring accessory for MicroLogic 5/6	
	24 V DC power supply connector LV434210
ZSI accessory for NS630b-NW with NSX	
	ZSI module LV434212
External power supply module (24 V DC - 1 A), class 4	
	24-30 V DC LV454440 48-60 V DC LV454441 100-125 V DC LV454442 110-130 V AC LV454443 200-240 V AC LV454444
Battery module	
	24 V DC battery module 54446

INDUSTRIAL AUTOMATION



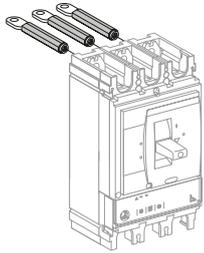
Installation and connection

ComPact NSX and ComPact NSX400/630 Vigi add-on

Fixed/RC device = fixed/FC device + rear connection kit

Mixed RC kit

DB111465.eps

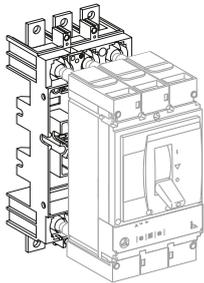


Kit 3P	Short RCs	2 x	LV432475
	Long RCs	1 x	LV432476
Kit 4P	Short RCs	2 x	LV432475
	Long RCs	2 x	LV432476

Plug-in version = fixed/FC device + plug-in kit

Kit for ComPact NSX

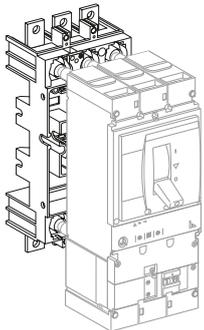
DB111467.eps



Plug-in kit Comprising:	3P	4P
	Base	LV432538
Power connections	= 1 x LV432516 + 3 x LV432518	= 1 x LV432517 + 4 x LV432518
Short terminal shields	+ 2 x LV432591	+ 2 x LV432592
Safety trip interlock	+ 1 x LV432520	+ 1 x LV432520

Kit for ComPact NSX Vigi add-on

DB111469.eps



ComPact NSX Vigi add-on plug-in kit Comprising:	3P	4P
	Base	LV432540
Power connections	= 1 x LV432516 + 3 x LV432519	= 1 x LV432517 + 4 x LV432519
Short terminal shields	+ 2 x LV432591	+ 2 x LV432592
Safety trip interlock	+ 1 x LV432520	+ 1 x LV432520

INDUSTRIAL AUTOMATION

[1] Supplied with 2 or 3 interphase barriers.

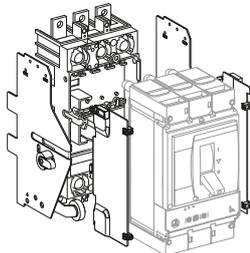
Installation and connection

ComPact NSX and ComPact NSX400/630 Vigi add-on

Withdrawable version = fixed/FC device + withdrawable kit

Kit for ComPact NSX

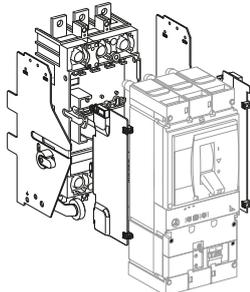
DB11468.eps



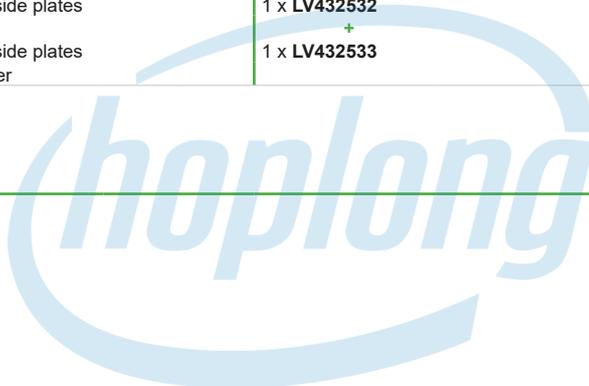
	3P	4P
	Kit for ComPact NSX	Kit for ComPact NSX
	=	=
Plug-in kit:	1 x LV432538	1 x LV432539
	+	+
Chassis side plates for base	1 x LV432532	1 x LV432532
	+	+
Chassis side plates for breaker	1 x LV432533	1 x LV432533

Kit for ComPact NSX Vigi add-on

DB11774.eps



	3P	4P
	Kit for ComPact NSX Vigi add-on	Kit for ComPact NSX Vigi add-on
	=	=
Plug-in kit:	1 x LV432540	1 x LV432541
	+	+
Chassis side plates for base	1 x LV432532	1 x LV432532
	+	+
Chassis side plates for breaker	1 x LV432533	1 x LV432533



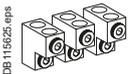
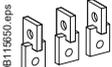
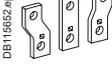
INDUSTRIAL AUTOMATION



Accessories and auxiliaries

ComPact NSX400/630 with/without Vigi add-on

Connection accessories (Cu or Al)

Rear connections				
	2 short			LV432475
	2 long			LV432476
Bare cable connectors ^[1]				
	Aluminium connectors	1 x (35 to 300 mm ²)	Set of 3	LV432479
			Set of 4	LV432480
	Aluminium connectors for 2 cables	2 x (35 to 240 mm ²)	Set of 3	LV432481
			Set of 4	LV432482
	6.35 mm voltage tap for aluminium connectors for 1 or 2 cables		Set of 10	LV429348
Terminal extensions ^[1]				
	45° terminal extensions		Set of 3	LV432586
			Set of 4	LV432587
	Edgewise terminal extensions		Set of 3	LV432486
			Set of 4	LV432487
	Right-angle terminal extensions		Set of 3	LV432484
			Set of 4	LV432485
	Spreaders	52.5 mm	3P	LV432490
			4P	LV432491
		70 mm	3P	LV432492
			4P	LV432493
Crimp lugs for copper cable ^[1]				
	For cable 240 mm ²		Set of 3	LV432500
			Set of 4	LV432501
	For cable 300 mm ²		Set of 3	LV432502
			Set of 4	LV432503
Crimp lugs for aluminium cable ^[1]				
	For cable 240 mm ²		Set of 3	LV432504
			Set of 4	LV432505
	For cable 300 mm ²		Set of 3	LV432506
			Set of 4	LV432507
Supplied with 2 or 3 interphase barriers				

[1] Supplied with 2 or 3 interphase barriers.

Accessories and auxiliaries

ComPact NSX400/630 with/without Vigi add-on

Insulation accessories

<p>DB425487.eps</p>	Short terminal shield, 45 mm (1 piece)	3P	LV432591
		4P	LV432592
<p>DB117163.eps</p>	Short terminal shield > 500 V (1 piece)	3P	LV433693
		4P	LV433694
<p>DB425468.eps</p>	Long terminal shield, 45 mm (1 piece)	3P	LV432593
		4P	LV432594
<p>DB425469.eps</p>	Long terminal shield for spreaders, 52.5 mm (1 piece) (supplied with insulating plate)	3P	LV432595
		4P	LV432596
<p>DB425470.eps</p>	Interphase barriers	Set of 6	LV432570
<p>DB425471.eps</p>	Connection adapter for plug-in base	3P	LV432584
		4P	LV432585
<p>DB115228.eps</p>	2 insulating screens (70 mm pitch)	3P	LV432578
		4P	LV432579



Accessories and auxiliaries

ComPact NSX400/630 with/without Vigi add-on

Electrical auxiliaries

Auxiliary contacts (changeover)

DB11254.eps 	OF or SD or SDE or SDV	29450
	OF or SD or SDE or SDV low level	29452

SDx output module for MicroLogic electronic trip unit

DB11275.eps 	SDx module 24/415 V AC/DC	LV429532
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SDTAM contactor tripping module (early-break thermal fault signal) for MicroLogic 2.3 M/6.3 E-M

DB11276.eps 	SDTAM 24/415 V AC/DC overload fault indication	LV429424
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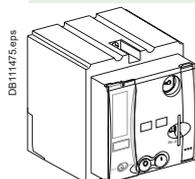
Voltage releases

	Voltage	MX	MN		
DB11454.eps 	AC	24 V 50/60 Hz	LV429384	LV429404	
		48 V 50/60 Hz	LV429385	LV429405	
		110-130 V 50/60 Hz	LV429386	LV429406	
		220-240 V 50/60 Hz and 208-277 V 60 Hz	LV429387	LV429407	
		380-415 V 50 Hz and 440-480 V 60 Hz	LV429388	LV429408	
		525 V 50 Hz and 600 V 60 Hz	LV429389	LV429409	
DB11454.eps 	DC	12 V	LV429382	LV429402	
		24 V	LV429390	LV429410	
		30 V	LV429391	LV429411	
		48 V	LV429392	LV429412	
		60 V	LV429383	LV429403	
		125 V	LV429393	LV429413	
		250 V	LV429394	LV429414	
		MN 48 V 50/60 Hz with fixed time delay			
		Composed of:	MN 48 V DC		LV429412
			Delay unit 48 V 50/60 Hz		LV429426
MN 220-240 V 50/60 Hz with fixed time delay					
Composed of:	MN 250 V DC		LV429414		
	Delay unit 220-240 V 50/60 Hz		LV429427		
MN 48 V DC/AC 50/60 Hz with adjustable time delay					
Composed of:	MN 48 V DC		LV429412		
	Delay unit 48 V DC/AC 50/60 Hz		33680		
MN 110-130 V DC/AC 50/60 Hz with adjustable time delay					
Composed of:	MN 125 V DC		LV429413		
	Delay unit 100-130 V DC/AC 50/60 Hz		33681		
MN 220-250 V DC/AC 50/60 Hz with adjustable time delay					
Composed of:	MN 250 V DC		LV429414		
	Delay unit 200-250 V DC/AC 50-60 Hz		33682		

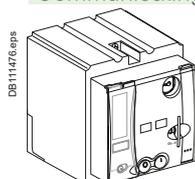
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Motor mechanism

Motor mechanism module

	AC	Voltage	MT400-630
		48-60 V 50/60 Hz	LV432639
		110-130 V 50/60 Hz	LV432640
		220-240 V 50/60 Hz and 208-277 V 60 Hz	LV432641
		380-415 V 50 Hz	LV432642
	DC	440-480 V 60 Hz	LV432647
		24-30 V	LV432643
		48-60 V	LV432644
		110-130 V	LV432645
		250 V	LV432646
Operation counter			LV432648

Communicating motor mechanism module

	Motor mechanism module	MTc 400/630	220-240 V 50/60 Hz	LV432652
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	Breaker status Communication Module	BSCM	LV434205
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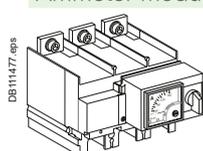
	NSX cord	Wire length L = 0.35 m	LV434200
Wire length L = 1.3 m		LV434201	
Wire length L = 3 m		LV434202	
U > 480 V AC wire length L = 0.35 m		LV434204	

Indication and measurement modules

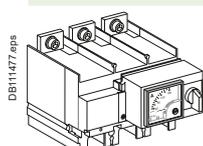
PowerLogic PowerTag NSX

	Rating (A)	630
	3P	LV434022
	3P+N	LV434023

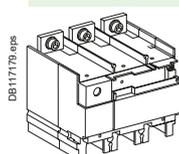
Ammeter module

	Rating (A)	400	630
	3P	LV432655	LV432855
	4P	LV432656	LV432856

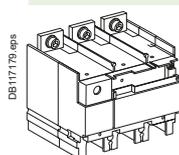
I max. ammeter module

	Rating (A)	400	630
	3P	LV434852	LV434853

Current transformer module

	Rating (A)	400	630
	3P	LV432657	LV432857
	4P	LV432658	LV432858

Current transformer module and voltage output

	Rating (A)	400	600
	3P	LV432653	LV432861
	4P	LV432654	LV432862

Voltage presence indicator

	3P/4P	LV432566
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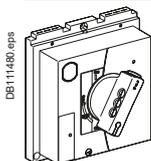


Accessories and auxiliaries

ComPact NSX400/630 with/without Vigi add-on

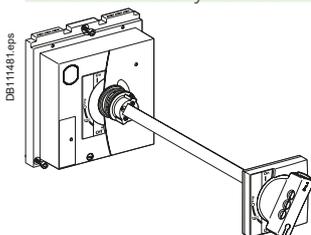
Rotary handles

Direct rotary handle



With black handle	LV432597
With red handle on yellow front	LV432599
MCC conversion accessory	LV432606
CNOMO conversion accessory	LV432602

Extended rotary handle



With black handle	LV432598
With red handle on yellow front	LV432600
With telescopic handle for withdrawable device	LV432603



Open door shaft operator	LV426937
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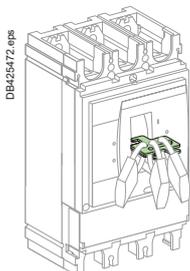
Accessories for direct or extended rotary handle

Indication auxiliary	1 early-break contact	LV432605
	2 early-make contacts	LV429346

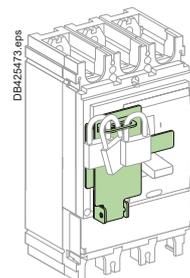
Locks

Toggle locking device for 1 to 3 padlocks

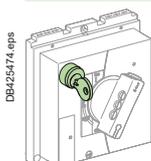
By removable device	29370
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By fixed device for 3P, 4P (open or close position)	LV432631
By fixed device for 3P, 4P (for open position only)	LV432630

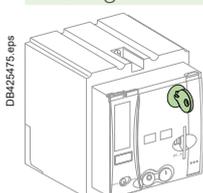


Locking of rotary handle



Keylock adapter (keylock not included)	LV432604	
Keylock (keylock adapter not included)	Ronis 1351B.500	41940
	Profalux KS5 B24 D4Z	42888

Locking of motor mechanism module



Keylock adapter (keylock not included)	LV432649	
Keylock (keylock adapter not included)	Ronis 1351B.500	41940
	Profalux KS5 B24 D4Z	42888

INDUSTRIAL AUTOMATION

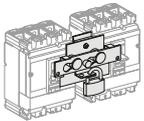
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Accessories and auxiliaries

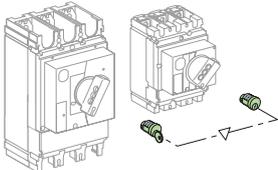
ComPact NSX400/630 with/without Vigi add-on

Interlocking

Mechanical interlocking for circuit breakers

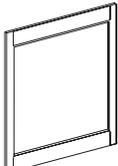
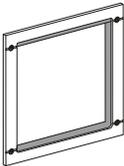
DB417299.eps 	With toggles	LV432614
	With rotary handles	LV432621

Interlocking with key (2 keylocks / 1 key) for rotary handles

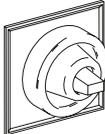
DB425576.eps 	Keylock kit (keylock not included) ^[1]	LV432604	
	1 set of 2 keylocks	Ronis 1351B.500	41950
	(1 key only, keylock kit not included)	Profalux KS5 B24 D4Z	42878

Installation accessories

Front-panel escutcheons

DB111489.eps 	IP30 escutcheon for all control types	LV432557
	IP30 trip unit access escutcheon for toggle	LV432559
	IP30 escutcheon for Vigi add-on	LV429527
DB111489.eps 	IP40 escutcheon for all control types	LV432558
	IP40 escutcheon for Vigi add-on	LV429316
	IP40 escutcheon for Vigi add-on or ammeter module	LV429318

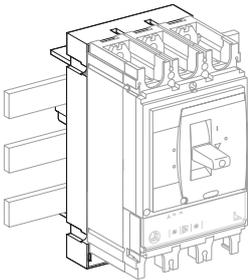
IP43 rubber toggle cover

DB111490.eps 	1 toggle cover	LV432560
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Lead-sealing accessories

DB115615.eps 	Bag of accessories	LV429375
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60 mm plate

DB111491.eps 	Plate 3P ComPact NSX400/630 IEC	LV432623
	Plate 4P ComPact NSX400/630 IEC	LV432624

[1] For only 1 device.

Accessories and auxiliaries

ComPact NSX400/630 with/without Vigi add-on

Plug-in/withdrawable version accessories

Insulation accessories



Connection adapter for plug-in base	3P	LV432584
	4P	LV432585

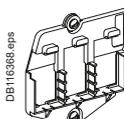
Auxiliary connections



1 9-wire fixed connector (for base)		LV429273
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1 9-wire moving connector (for circuit breaker)		LV432523
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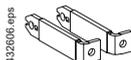


1 support for 3 moving connectors		LV432525
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9-wire manual auxiliary connector (fixed + moving)		LV429272
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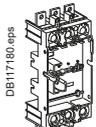
Plug-in base accessories



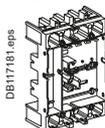
Long insulated right angle terminal extensions	Set of 2	LV432526
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2 IP40 shutters for base		LV432521
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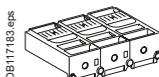
Base	3P	LV432516
------	----	----------



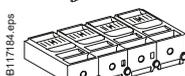
Base	4P	LV432517
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Power connections	3/4P	LV432518
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Short terminal shields	3P	LV432591
Short terminal shield > 500 V (1 piece)	3P	LV433693

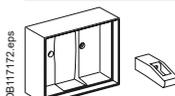


Short terminal shields	4P	LV432592
Short terminal shield > 500 V (1 piece)	4P	LV433694



Safety trip interlock	3/4P	LV432520
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Chassis accessories



Escutcheon collar	Toggle	LV432534
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Escutcheon collar	Vigi add-on	LV429285
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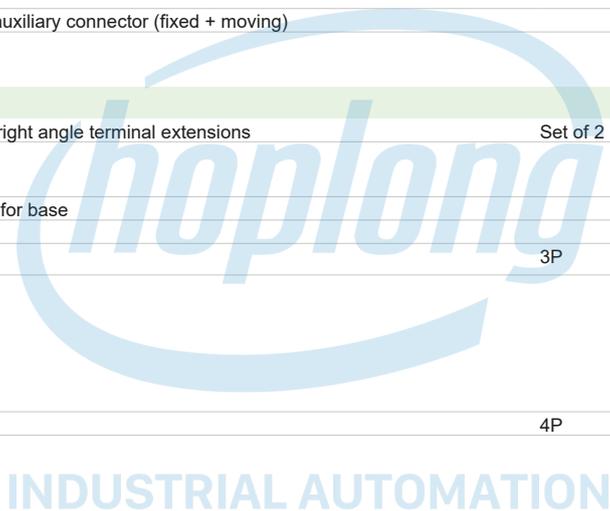


Locking kit (keylock not included)		LV429286
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Keylock (keylock adapter not included)	Ronis 1351B.500	41940
	Profalux KS5 B24 D4Z	42888

2 carriage switches (connected/disconnected position indication)		LV429287
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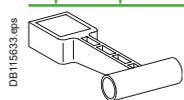
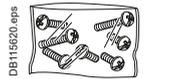
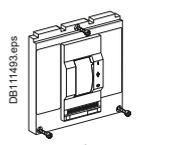
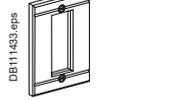
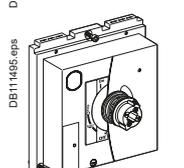
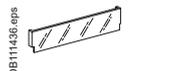


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Accessories and auxiliaries

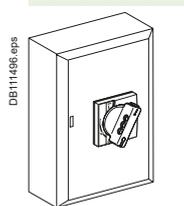
ComPact NSX400/630 with/without Vigi add-on

Spare parts

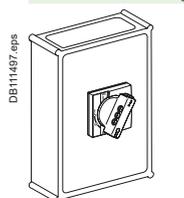
	Additional toggle extension for NSX400/630		32595
	5 spare toggle extensions		LV432553
	Bag of screws		LV432552
	ComPact NS retrofit escutcheon	Small cut-out	LV432571
	IP40 toggle escutcheon	ComPact NS type/small cut-out	32556
	Torque limiting screws (set of 12)	3P/4P ComPact NSX400-630	LV432513
	1 set of 10 identification labels		LV429226
	1 base for extended rotary handle		LV432498
	LCD display for electronic trip unit	MicroLogic 5 MicroLogic 6 MicroLogic E-M	LV429483 LV429484 LV429486
	5 transparent covers for electronic trip unit	MicroLogic 5/6 MicroLogic 2	LV432459 LV432461

Individual enclosures

IP55 steel enclosure

	ComPact NSX400 with black extended rotary handle	LV431219
	ComPact NSX400 with red and yellow extended rotary handle	LV431220
	ComPact NSX630 or ComPact NSX400/630 Vigi add-on with black extended rotary handle	LV431221
	ComPact NSX630 or ComPact NSX400/630 Vigi add-on with red and yellow extended rotary handle	LV431222

IP55 insulating enclosure

	ComPact NSX400/630 with black extended rotary handle	LV432665
	ComPact NSX400/630 Vigi add-on with black extended rotary handle	LV432666

Visible break disconnect function

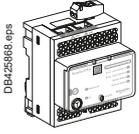
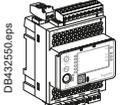
See catalog dealing with "ComPact INV products (visible break)" and the associated accessories.
The visible break disconnection function is compatible with fixed front-connected/rear-connected ComPact NSX devices.



Communication, monitoring and control

ComPact NSX400/630 with/without Vigi add-on

Communication option

	IFE	Ethernet interface for LV breaker	LV434001
		Ethernet interface for LV breakers and gateway	LV434002
	IFM Modbus-SL interface module		LV434000
	I/O application module		LV434063
	User guide IFE		DOCA0084EN
	User guide I/O application module		DOCA0055EN

Monitoring and control (remote operation)

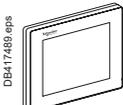
Circuit breaker accessories

	Breaker Status Control Module	BSCM ^[1]	LV434205
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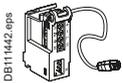
ULP display module^[2]

	Switchboard front display module FDM121		TRV00121
	FDM mounting accessory (diameter 22 mm)		TRV00128

Ethernet display module

	Switchboard front display module FDM128		LV434128
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ULP wiring accessories

	NSX cord L = 0.35 m		LV434200
	NSX cord L = 1.3 m		LV434201
	NSX cord L = 3 m		LV434202
	NSX cord for U > 480 V AC L = 1.3 m		LV434204

	10 stacking connectors for communication interface modules		TRV00217
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	2 Modbus line terminators		VW3A8306DRC ^[3]
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	Connector Modbus adaptor		LV434211
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	RS 485 roll cable (4 wires, length 60 m)		50965
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	5 RJ45 connectors female/female		TRV00870
--	---------------------------------	--	-----------------

	10 ULP line terminators		TRV00880
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	10 RJ45/RJ45 male cord L = 0.3 m		TRV00803
	10 RJ45/RJ45 male cord L = 0.6 m		TRV00806
	5 RJ45/RJ45 male cord L = 1 m		TRV00810
	5 RJ45/RJ45 male cord L = 2 m		TRV00820
	5 RJ45/RJ45 male cord L = 3 m		TRV00830
	1 RJ45/RJ45 male cord L = 5 m		TRV00850

[1] SDE adapter mandatory for trip unit TM, MA or MicroLogic 2 (LV429451).

[2] For measurement display with MicroLogic A and E or status display with BSCM.

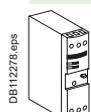
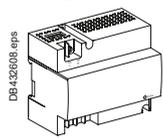
[3] www.schneider-electric.com.

Monitoring and control, accessories

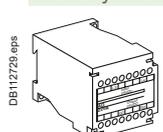
ComPact NSX400/630 with/without Vigi add-on

Accessories

Power supply modules

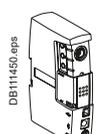
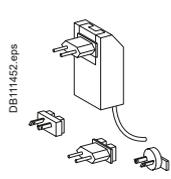
	External power supply module 100-240 V AC 110-230 V DC / 24 V DC-3 A class 2	ABL8RPS24030	[1]
	External power supply module 24 V DC-1 A OVC IV		
	24-30 V DC	LV454440	
	48-60 V DC	LV454441	
	100-125 V DC	LV454442	
	110-130 V AC	LV454443	
	200-240 V AC	LV454444	

Battery module

	24 V DC battery module	54446	
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Test tool, software, demo

Test tool

	Pocket battery for MicroLogic NSX100-630	LV434206	
	Maintenance case Comprising: - USB maintenance interface - Power supply - MicroLogic cord - USB cord - RJ45/RJ45 male cord	TRV00910	
	Spare USB maintenance interface	TRV00911	
	Spare power supply 110-240 V AC	TRV00915	
	Spare MicroLogic cord for USB maintenance interface	TRV00917	
	Bluetooth/Modbus option for USB maintenance interface	VW3A8114	[1]

Software

	Configuration and setting EcoStruxure Power Commission software	LV4ST100	[2]
	Test software LTU	LV4ST121	[2]
	Monitoring EcoStruxure Power Commission software	LV4SM100	[2]

Demo tool

	Demo case for ComPact NSX	LV434207	
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[1] See Telemecanique catalog.

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

INDUSTRIAL AUTOMATION

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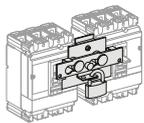
Source-changeover systems for 2 devices

ComPact NSX100 to NSX630

Manual source-changeover

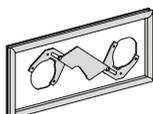
Mechanical interlocking

DB417299.eps



For toggle controlled circuit breakers	NSX100...250	LV429354
	NSX400...630	LV432614

DB418508.eps

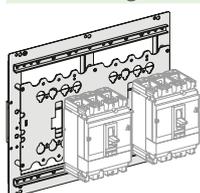


For rotary handled circuit breakers	NSX100...250	LV429369
	NSX400...630	LV432621

Interlocking on base plate

For 2 devices side by side

DB417459.eps

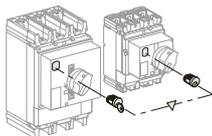


29349
32609

Keylock interlocking

For rotary handled or remote controlled circuit breakers
2 locks, 1 key
Ronis 1351B.500
Profalux KS5 B24 D4Z

DB417301.eps

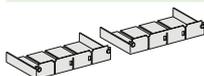


41950
42878

Connection accessories

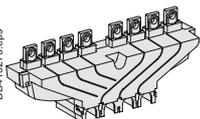
Downstream coupling accessories

DB101022.eps



+

DB413273.eps



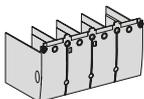
Short terminal shields (1 pair) + "S1" source/"S2" source

INDUSTRIAL AUTOMATION

	3P	4P
NSX100...250/NSX100...250/ 250 A	LV429358	LV429359
NSX400...630/NSX400...630/ 630 A	LV432619	LV432620

Long terminal shields (1 pair)

DB403921.eps



NSX100...250/NSX100...250		LV429518
NSX400...630/NSX400...630		LV432594
Long terminal shield for spreaders, 52.5 mm (1 piece)	LV432596	LV432596

Terminal extensions

DB115622.eps



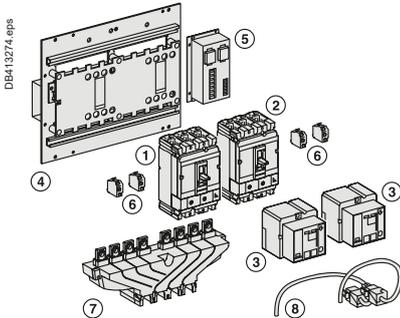
Spreaders	52.5 mm	4P	LV432491
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Source-changeover systems for 2 devices

ComPact NSX100 to NSX630

Typical composition of source-changeover system

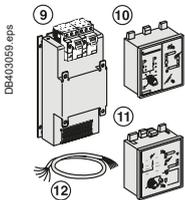
Remote source-changeover



- 1 normal device N (1)
- + 1 replacement device R (2)
- + 2 remote controls (3)
- + 1 plate with interlocking (4) with IVE (5) and its wiring (8)
- + 2 plug-in kits (if plug-in version)
- + 1 adaptor kit for NSX100...250 plug-in (if NSX400...630 with NSX100...250)
- + auxiliary switches (6)
- 2 x (1 OF + 1 SDE) for ComPact NSX100...630
- + 1 downstream coupling accessory (7) for ComPact NSX100...630 (option)
- + long RC (if back connection)

IVE and remote controls must have the same voltage.

Associated controller

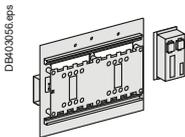


- 1 source changeover without associated controller
- + 1 ACP (9) with BA controller (10)
- Or + 1 ACP (9) with UA controller (11)
- Or + 1 ACP (9) with UA150 controller (11)
- + extension (12) for remote UA/BA connection on front of switchboard

IVE + remote control + ACP + BA or UA must have the same voltage.

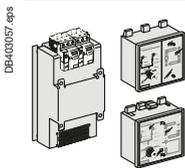
Automatic source-changeover

Mechanical and electrical interlocking



Source "normal"/source "replacement" (identical voltages)	24 to 250 V DC	48 to 415 V AC 50/60 Hz 440 V 60 Hz
NSX100...250/NSX100...250		
Plate + IVE	29351	29350
Plate	29349	29349
IVE	29356	29352
Auxiliary switches 2 OF + 2 SDE	4 x 29450	4 x 29450
Spare wiring system (device/IVE)	29365	29365
Back sockets option add: Only long RC	[2]	[2]
Plug in base option add: Plug in kit	[2]	[2]
NSX400...630/NSX100...630		
Plate + IVE	32611	32610
Plate	32609	32609
IVE	29356	29352
Auxiliary switches 2 OF + 2 SDE	4 x 29450	4 x 29450
Spare wiring system (device/IVE)	29365	29365
Back sockets option add: Only long RC	[2]	[2]
Plug in base option add: Plug in kit	[2]	[2]
Adaptator kit for NSX100...250	1 x 32618	1 x 32618

Controller



	110/127 V AC 50/60 Hz	220/240 V AC 50/60 Hz	380/415 V AC 50/60 Hz 440 V 60 Hz
ACP + controller BA [1]		29470	29471
Plate ACP		29363	29364
Controller BA		29376	29377
ACP + controller UA [1]	29448	29472	29473
Plate ACP	29447	29363	29364
Controller UA	29446	29378	29380

Wiring cable between BA/UA and ACP/IVE

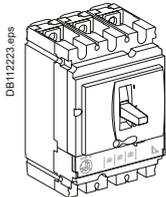
Wiring cable (1.5 meter)	29368	29368
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[1] The supply voltages BA/UA controller, ACP plate, IVE and the remote control must be identical whatever the source-changeover type.
 [2] See products pages.

NSX100/400 for utilities, "tarif jaune" public distribution

Complete fixed/FC device without accessories

ComPact NSX with MicroLogic AB

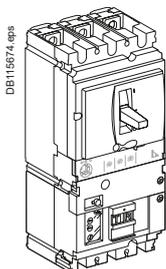


ComPact NSX

	Rating	4P
NSX100F MicroLogic AB	100	LV434562
NSX160F MicroLogic AB	160	LV434563
NSX250F MicroLogic AB	240	LV434564
NSX400F MicroLogic AB	400	LV434565

Comprising:	Basic frame	MicroLogic AB
NSX100F + MicroLogic AB 100	LV429008	LV434550
NSX160F + MicroLogic AB 160	LV430408	LV434551
NSX250F + MicroLogic AB 240	LV431408	LV434554
NSX400F + MicroLogic AB 400	LV432415	LV434557

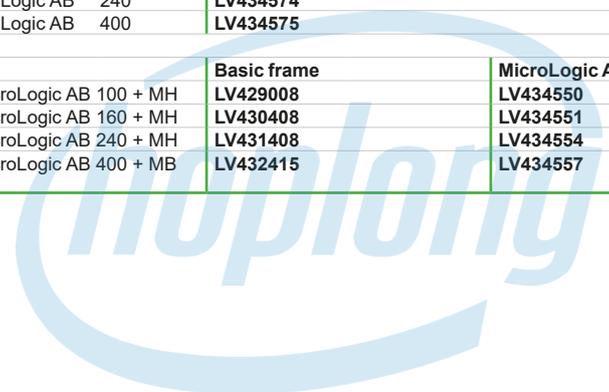
ComPact NSX Vigi add-on with MicroLogic AB



ComPact NSX Vigi add-on

	Rating	4P
NSX100F MicroLogic AB	100	LV434572
NSX160F MicroLogic AB	160	LV434573
NSX250F MicroLogic AB	240	LV434574
NSX400F MicroLogic AB	400	LV434575

Comprising:	Basic frame	MicroLogic AB	Vigi add-on MH/MB
NSX100F + MicroLogic AB 100 + MH	LV429008	LV434550	LV429211
NSX160F + MicroLogic AB 160 + MH	LV430408	LV434551	LV429211
NSX250F + MicroLogic AB 240 + MH	LV431408	LV434554	LV431536
NSX400F + MicroLogic AB 400 + MB	LV432415	LV434557	LV432456

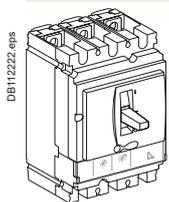


INDUSTRIAL AUTOMATION

NSX100/400 for utilities, "tarif jaune" public distribution

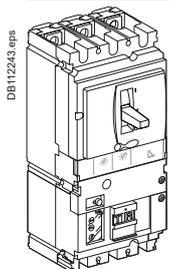
Complet fixed/FC device without accessories

ComPact NSX with normal trip unit



ComPact NSX100F		
Rating	4P 3d	4P 4d
TM40D	LV429644	LV429654
TM63D	LV429642	LV429652
TM80D	LV429641	LV429651
TM100D	LV429640	LV429650
ComPact NSX160F		
Rating	4P 3d	4P 4d
TM80D	LV430643	LV430653
TM100D	LV430642	LV430652
TM125D	LV430641	LV430651
TM160D	LV430640	LV430650
ComPact NSX250F		
Rating	4P 3d	4P 4d
TM125D	LV431643	LV431653
TM160D	LV431642	LV431652
TM200D	LV431641	LV431651
TM250D	LV431640	LV431650
ComPact NSX400F		
Rating	4P 3d	4P 4d
MicroLogic 2.3	LV432677	LV432677

ComPact NSX with normal trip unit

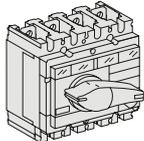
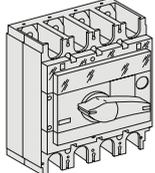


ComPact NSX100F Vigi add-on		
Rating	4P 3d	4P 4d
TM40D	LV429944	LV429954
TM63D	LV429942	LV429952
TM80D	LV429941	LV429951
TM100D	LV429940	LV429950
ComPact NSX160F Vigi add-on		
Rating	4P 3d	4P 4d
TM80D	LV430943	LV430953
TM100D	LV430942	LV430952
TM125D	LV430941	LV430951
TM160D	LV430940	LV430950
ComPact NSX250F Vigi add-on		
Rating	4P 3d	4P 4d
TM125D	LV431943	LV431953
TM160D	LV431942	LV431952
TM200D	LV431941	LV431951
TM250D	LV431940	LV431950
ComPact NSX400F Vigi add-on		
Rating	4P 3d	4P 4d
MicroLogic 2.3	LV432732	LV432732



NSX100/400 for utilities, "tarif jaune" public distribution Visible break

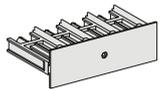
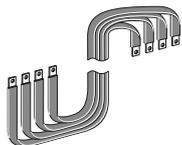
ComPact INV100 to INV630 standard version

 DB403051.eps	ComPact INV100	For ComPact NSX100	4P 31161
	ComPact INV160	For ComPact NSX160	31165
	ComPact INV200	For ComPact NSX250	31163
	ComPact INV250	For ComPact NSX250	31167
 DB403052.eps	ComPact INV320	For ComPact NSX400	4P 31169
	ComPact INV400	For ComPact NSX400	31171

Spare viewport

 DB403061.eps	For INV100 to 250	31089
	For INV320/400	31090

Combination with ComPact NSX devices

 DB403062.eps	INV100 to 250 - NSX250 combination assembly	31066
	INV320/400 - NSX250 combination assembly	31067
	Front alignment base for INV320/400 - NSX250 combination assembly	31064
	INV320/400 - NSX400 combination assembly	31068
 DB403063.eps	Flexible connection assembly for vertical INV100 to 250 with NSX horizontal N ^[1]	04443
	Flexible connection assembly for vertical INV100 to 250 with NSX horizontal V ^[1]	04444
	Flexible connection assembly for vertical INV320 to 630 with NSX horizontal N ^[1]	04445
	Flexible connection assembly for vertical INV320 to 630 with NSX horizontal V ^[1]	04446
	Flexible connection assembly for vertical INV100 to 250 with vertical NSX250 beside	31071
	Flexible connection assembly for vertical INV320 to 630 with vertical NSX400/630 beside	31072
Flexible connection assembly for vertical INV320 to 630 with vertical NSX250 beside	31093	

[1] Product sold by MGA and valid for new Prisma only.

INDUSTRIAL AUTOMATION

NSX100/400 for utilities, "tarif jaune" public distribution

Installation and connection with or without the visible break function

Conventional installation

Combination assembly

Upstream and downstream connection

INV100 to 250 - NSX100/160/250	4 snap-on bare cable connectors for cables:	1.5 to 95 mm ² ; ≤ 160 A	2x	LV429243
		10 to 185 mm ² ; ≤ 250 A	2x	LV429260
	10 clips for bare cable connector		1x	LV429241
	4 right-angle terminal extensions		2x	LV429262
	2 long terminal shields		1x	LV429518
INV320/400 - NSX100/160/250	4 bare cable connectors:	For 1 cable, 35 mm ² to 300 mm ²	1x	LV432480
		For 2 cables, 35 mm ² to 240 mm ²	1x	LV432482
	4 right-angle terminal extensions		1x	LV432485
	1 long terminal shield		1x	LV432594
	4 snap-on bare cable connectors for cables:	1.5 to 95 mm ² ; ≤ 160 A	1x	LV429243
		10 to 185 mm ² ; ≤ 250 A	1x	LV429260
	10 clips for bare cable connector		1x	LV429241
	4 right-angle terminal extensions		1x	LV429262
	1 long terminal shield		1x	LV429518
	INV320/400 - NSX400	4 bare cable connectors:	For 1 cable, 35 mm ² to 300 mm ²	2x
For 2 cables, 35 mm ² to 240 mm ²			2x	LV432482
4 right-angle terminal extensions			2x	LV432485
1 long terminal shield			1x	LV432594

Installation in cabinet or enclosure

Combination assembly (mounting in duct)

Flexible connection assembly (mounting in cubicle)

Upstream and downstream connection

INV100 to 250 - NSX100/160/250	4 snap-on bare cable connectors for cables:	1.5 to 95 mm ² ; ≤ 160 A	2x	LV429243
		10 to 185 mm ² ; ≤ 250 A	2x	LV429260
	1 short terminal shield		1x	LV429516
INV320/400 - NSX100/160/250	4 bare cable connectors:	For 1 cable, 35 mm ² to 300 mm ²	1x	LV432480
		For 2 cables, 35 mm ² to 240 mm ²	1x	LV432482
	1 short terminal shield		1x	LV432592
	4 snap-on bare cable connectors for cables:	1.5 to 95 mm ² ; ≤ 160 A	1x	LV429243
		10 to 185 mm ² ; ≤ 250 A	1x	LV429260
INV320/400 - NSX400	4 bare cable connectors:	For 1 cable, 35 mm ² to 300 mm ²	2x	LV432480
		For 2 cables, 35 mm ² to 240 mm ²	2x	LV432482
	1 short terminal shield		1x	LV432592

ComPact NSX100 to NSX630 order form

Name of customer:
 Address for delivery:
 Requested delivery date:
 Customer order no.:

To indicate your choices, check the applicable square boxes
 or note the quantity

and enter the appropriate information in the rectangles

Circuit breaker or switch-disconnector

ComPact type **NSX100/160/250 - 160A not available with R, HB1 or HB2**
 NSX400/630

Rating **A**

Circuit breaker **B, F, N, H, S, L, R, HB1, HB2**

Switch-disconnector **NA**

Number of poles **1, 2, 3 or 4**

Number of poles protected **2d, 3d or 4d**

Fixed device Front connections

Plug-in/withdr. Plug-in Withdrawable

Earth-leakage protection **ME, MH, MB (not available with R, HB1 or HB2)**

Vigi add-on Voltage < 550 V V
 4P option on 3P NSX

Trip unit

Thermal-mag. **TMD** rating (16 ... 250 A) (40 ... 250 A) with R, HB1 and (63...250 A) with HB2
 TMG rating (16 ... 250 A) - not available with R, HB1 or HB2
 MA rating (2.5 ... 220 A) (12.5 ... 220 A) with R, HB1 and HB2

Electronic

* Not available with R, HB1 or HB2

<input type="checkbox"/> MicroLogic 2.2	<input type="checkbox"/> MicroLogic 2.3
<input type="checkbox"/> MicroLogic 2.2 G*	<input type="checkbox"/> MicroLogic 2.3 AB*
<input type="checkbox"/> MicroLogic 2.2 AB*	<input type="checkbox"/> MicroLogic Vigi 4.3
<input type="checkbox"/> MicroLogic Vigi 4.2	<input type="checkbox"/> MicroLogic Vigi 4.3 AL
<input type="checkbox"/> MicroLogic Vigi 4.2 AL	<input type="checkbox"/> MicroLogic Vigi 4.3 AB
<input type="checkbox"/> MicroLogic Vigi 4.2 AB	<input type="checkbox"/> MicroLogic 5.3 A*
<input type="checkbox"/> MicroLogic 5.2 A*	<input type="checkbox"/> MicroLogic 5.3 E
<input type="checkbox"/> MicroLogic 5.2 E	<input type="checkbox"/> MicroLogic 5.3 A-Z*
<input type="checkbox"/> MicroLogic 5.2 A-Z*	<input type="checkbox"/> MicroLogic 6.3 A*
<input type="checkbox"/> MicroLogic 6.2 A*	<input type="checkbox"/> MicroLogic 6.3 E
<input type="checkbox"/> MicroLogic 6.2 E	<input type="checkbox"/> MicroLogic Vigi 7.3 E
<input type="checkbox"/> MicroLogic Vigi 7.2 E	<input type="checkbox"/> MicroLogic Vigi 7.3 E AL
<input type="checkbox"/> MicroLogic Vigi 7.2 AL	<input type="checkbox"/> MicroLogic 1.3 M
<input type="checkbox"/> MicroLogic 2.2 M	<input type="checkbox"/> MicroLogic 2.3 M
<input type="checkbox"/> MicroLogic 6.2 E-M	<input type="checkbox"/> MicroLogic 6.3 E-M

SDTAM Module

External neutral CT

24 V DC power supply connector

ZSI connector accessory for plug-in and withdrawable

ZSI wiring accessory for NS630b / MTZ

External power supply module 24 V DC

24-30 V DC	<input type="checkbox"/>	48-60 V DC	<input type="checkbox"/>
100-125 V AC	<input type="checkbox"/>	110-130 V AC	<input type="checkbox"/>
200-240 V AC	<input type="checkbox"/>		

Battery module

Connection

Rear-connection kit Short Long

Mixed

NSX100/250 connectors

Snap-on 1.5[□] to 95[□] (< 160 A)
 Snap-on 25[□] to 95[□] (< 250 A)
 Snap-on 120[□] to 185[□] (< 250 A)
 Distribution 6 x 1.5[□] to 35[□]
 Aluminium 1 cable 25 to 95
 Aluminium 1 cable 120 to 185
 Aluminium 1 cable 120 to 250
 Aluminium 2 cables 50[□] to 120[□]

NSX400/630 connectors

1 cable 35[□] to 300[□]
 2 cables 35[□] to 240[□]

Right-angle terminal extensions

Straight extensions NSX100/250

Edgewise extensions 45° terminal extension Double-L terminal extensions

Spreader NSX100/250 (one piece) (45 mm)
 NSX400/630 (52.5 mm) (70 mm)

Cu cable lugs NSX100/250 120[□] 150[□] 185[□]
 NSX400/630 240[□] 300[□]

Al cable lugs NSX100/250 150[□] 185[□]
 NSX400/630 240[□] 300[□]

Voltage measurement input for connector For lugs NSX100/250 ≤ 185[□]
 For lugs NSX400/630

Terminal shields NSX100/250 Short Long
 NSX400/630 Short Long
 Short ≥ 500 V Long for 52.5 mm spreaders

Interphase barriers Set of 6

2 insulating screens: NSX100/250
 NSX400/630 70 pitch

Test tool

<input type="checkbox"/> Pocket battery for MicroLogic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Power supply 110-240 V AC
<input type="checkbox"/> Maintenance case	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Spare MicroLogic cord
<input type="checkbox"/> USB maintenance interface	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Indication and measurement

<input type="checkbox"/>	PowerLogic PowerTag NSX	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3P	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4P
<input type="checkbox"/>	Ammeter module	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	standard	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4P
<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	I max	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4P
<input type="checkbox"/>	Current-transformer module	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4P
<input type="checkbox"/>	Current-transformer module + TCU	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4P
<input type="checkbox"/>	Insulation-monitoring module - not available with HB1 or HB2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4P
<input type="checkbox"/>	Voltage-presence indicator - not available with HB1 or HB2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	Auxiliary contact	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	OF, SD, SDE or SDV	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Standard
<input type="checkbox"/>	SDE adapter (TM, MA or MicroLogic 2 trip units)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Low level
<input type="checkbox"/>	SDX module	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Remote operation

<input type="checkbox"/>	Electrical operation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Motor mechanism	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	AC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	DC	<input type="checkbox"/>	<input type="checkbox"/>	V
<input type="checkbox"/>	Voltage releases	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Instantaneous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	MX	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	DC	<input type="checkbox"/>	<input type="checkbox"/>	V
<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	MN	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	DC	<input type="checkbox"/>	<input type="checkbox"/>	V
<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fixed time delay	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	MN	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	DC	<input type="checkbox"/>	<input type="checkbox"/>	V
<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Adjust. time delay	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	MN	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	DC	<input type="checkbox"/>	<input type="checkbox"/>	V

Rotary handles

<input type="checkbox"/>	Direct	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Black	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Red and yellow front
<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	MCC conversion access.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	CNOMO conversion access.
<input type="checkbox"/>	Extended	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Black	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Red and yellow front
<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Telescopic handle for withdrawable device	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Open door shaft operator	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	Indication auxiliary	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1 early-break switch	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2 early-make switches

Locking

<input type="checkbox"/>	Toggle (1 to 3 padlocks)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Removable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fixed
<input type="checkbox"/>	Rotary handle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Keylock adapter (keylock not included)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Profalux KS5 B24 D4Z
<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Keylocks Ronis 1351B.500	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	Motor mechanism	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Keylock adapter + keylock Ronis (special)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NSX100/250
<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Keylock adapter (keylock not included)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NSX400/630
<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Keylocks Ronis 1351B.500	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Profalux KS5 B24 D4Z

Interlocking

<input type="checkbox"/>	Mechanical	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Toggle operated	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Rotary Handle
<input type="checkbox"/>	By key (2 keylocks, 1 key)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Locking kit without locks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	For rotary handle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Keylocks Ronis 1351B.500	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Profalux KS5 B24 D4Z

Installation accessories

<input type="checkbox"/>	IP30 escutcheon for all types (toggle/rotary handle/motor mechanism)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	IP30 escutcheon (with access to toggle + trip unit)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	IP30 escutcheon for Vigi add-on	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	IP40 escutcheon for all types (toggle/rotary handle/motor mechanism)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	IP40 escutcheon for Vigi add-on	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	IP40 escutcheon for Vigi add-on or ammeter module	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	Toggle cover	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	Sealing accessories	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	DIN rail adapter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NSX100/250	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	3P 60 mm busbar adapter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Plug-in / withdrawable configuration accessories

<input type="checkbox"/>	Auxiliary connections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1 automatic connector fixed part with 9 wires (for base)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1 automatic connector moving part with 9 wires (for circuit breaker)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1 support for 3 automatic connector moving parts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1 support for 2 automatic connector
<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9-wire manual auxiliary connector (fixed + moving)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

<input type="checkbox"/>	Plug-in base accessories	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Long insulated terminals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Set of 2
<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2 IP4 shutters for base	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

<input type="checkbox"/>	Chassis accessories	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Escutcheon collar	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Toggle
<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Locking kit (keylock not included)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Vigi
<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2 carriage switches (conn./disconnected position indication)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	Parts or plug-in	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Plug-in base FC/RC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2P
<input type="checkbox"/>	Withdrawable kits	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Set of two power connections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Standard
<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Safety trip for advanced opening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Vigi
<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	For 3P/4P chassis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Moving part
<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fixed part

<input type="checkbox"/>	Adapter for plug-in base (for terminal shield or interphase barriers)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NSX Cord L = 0.35 m	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NSX Cord L = 1.3 m
<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NSX Cord U > 480 V AC L = 0.35 m	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NSX Cord L = 3 m

Communication

<input type="checkbox"/>	BSCM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Communicating motor mechanism 220-240 V	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Switchboard front display module FDM121	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	FDM mounting accessory	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	Ethernet Interface + Gateway	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	Ethernet Interface	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	Modbus interface	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	I/O Application Module	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Qty 1
<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Qty 2

<input type="checkbox"/>	Stacking accessory	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ULP line termination	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RJ45 connectors female/female	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Wire length RJ45 L = 0.3 m	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Wire length RJ45 L = 0.6 m
<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Wire length RJ45 L = 1 m	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Wire length RJ45 L = 2 m
<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Wire length RJ45 L = 3 m	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Wire length RJ45 L = 5 m