Low voltage
Direct Current Network

Compact NSX DC PV

Circuit breakers and switch disconnectors
for solar application

Catalogue
2012



Schneider Electric



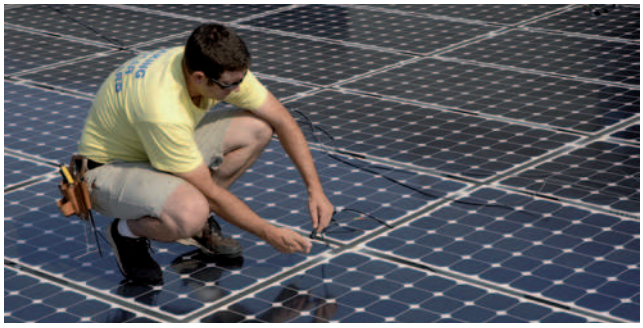
Compact NSX DC PV

A complete DC offer for solar application from 80 to 500 A



Compact NSX DC PV
circuit breakers and switch disconnectors





Ensuring the safe and the efficient operation of your photovoltaic installation

Schneider Electric photovoltaic packages give you dependable, clean, and affordable solar power. High quality, highly efficient, and available everywhere, our systems are safe, easy-to-install and 100 percent reliable, giving you a competitive edge. The Compact NSX DC PV range of molded case circuit breakers and switch disconnectors with operational voltage up to 1000 V DC includes the switchgears and the protection components you need to guarantee the safe and efficient operation of your photovoltaic installation in commercial buildings and power plants.



With heat sinks supplied as standard, the circuit breaker or switch disconnector rating is optimized, avoiding the need to oversize protection components and saving space in the enclosure. As part of the Compact NSX range, compatibility with all existing auxiliaries and accessories is guaranteed. In particular, terminal shields and phase barriers are available for insulation and shunt trip auxiliary is available for remote disconnection.

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Circuit breaker characteristics
Compact NSX80 TM DC PV to NSX200 TM DC PV

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Compact NSX200 DC PV.

PB110846.eps



Connection and insulation accessories.

NSX DC PV MCCB			
Number of poles			
Electrical characteristics as per IEC 60947-2 and EN 60947-2			
Rated current (A) (free air + no venting)	In	40°C heatsink standard-IP4X	
Altitude	m	2000	
Rated insulation voltage (V)	Ui		
Rated impulse withstand voltage (kV)	Uimp		
Rated operational voltage (V)	Ue	DC	
Type of circuit breaker			
Ultimate breaking capacity (L/R 2 ms)	Icu	DC	1000 V (4P series)
Service breaking capacity	Ics	% Icu	
Suitability for isolation			
Selectivity category (Utilisation category)			
Pollution degree			
Durability			
Endurance (C-O cycles)	mechanical		
	electrical	1000 V	In
Protection			
Overload/short-circuit protection	Thermal magnetic		
Installation and connections			
Control	manual	toggle	
		direct or extended rotary handle	
	motor mechanism		
Connections	fixed	front connection	
		long rear connection	
	plug-in (on base)	front connection	
		rear connection	
	withdrawable (on chassis)	front connection	
		rear connection	
Additional measurement, indication and control auxiliaries			
Indication contacts	OF	auxiliary contact	
	SD, SDE	trip, fault-trip	
Voltage releases	MX, MN	shunt trip/undervoltage release	
Installation			
Accessories	crimp lugs / bare cable connector		
	terminal extensions and spreaders		
	escutcheons		
	terminal shields and interphase barriers		
	Din rail adapter		
Dimensions and weight			
Dimensions (mm) W x H x D (w/o series connection)			4P
Weight (kg)	fixed front connection		4P

□ *On request , not available in the standard catalogue.*

(1) Double earth faults:
PV systems are either insulated from the earth or one pole is earthed through an overcurrent protection. In both set-ups, therefore, there can be a ground fault in which current leaks to the ground. If this fault is not cleared, it may spread to the healthy pole and give rise to a hazardous situation where fire could break out. Even though double insulation makes such an eventuality unlikely, it deserves full attention.
For the two following reasons the double fault situation shall be absolutely avoided: insulation monitoring devices or overcurrent protection in earthed system shall detect first fault and staff shall look after the first fault and clear it with no delay.
■ *The fault level could be low (e.g. two insulation faults or a low short-circuit capability of the generator in weak sunlight) and below the tripping value of vercurrent protection (circuit breaker or fuses). However, a DC arc fault does not extinguish itself, even when the current is low. It could be a serious hazard, particularly for PV modules on buildings.*
■ *Circuit breakers and switches used in PV systems are designed to break the rated current or fault current with all poles at open-circuit maximum voltage ($U_{OC\ MAX}$). To break the current when $U_{OC\ MAX}$ is equal to 1000 V, four poles in series (two poles in series for each polarity) are required. In double earth fault situations, the circuit breaker or switches must break the current at full voltage with only two poles in series. Such switchgear is not designed for that purpose and could sustain irremediable damage if used to break the current in a double ground fault situation.*
The ideal solution is to prevent double ground faults arising. Insulation monitoring devices or overcurrent protection in grounded systems detect the first fault. However, although the insulation fault monitoring system usually stops the inverter, the fault is still present. Staff must locate and clear it without delay. In large generators with sub-arrays protected by circuit breakers, it is highly advisable to disconnect each array when that first fault has been detected but not cleared within the next few hours.

	NSX80 TM DC PV	NSX125 TM DC PV	NSX160 TM DC PV	NSX200 TM DC PV
	4	4	4	4
	80	125	160	200
	■	■	■	■
	1000	1000	1000	1000
	8	8	8	8
	1000	1000	1000	1000
	10 (1)	10 (1)	10 (1)	10 (1)
	50 %	50 %	50 %	50 %
	■	■	■	■
	A	A	A	A
	3	3	3	3
	10000	10000	10000	10000
	1500	1500	1000	1000
	■	■	■	■
	■	■	■	■
	■	■	■	■
	■	■	■	■
	■	■	■	■
	■	■	■	■
	□	□	□	□
	□	□	□	□
	□	□	□	□
	□	□	□	□
	■	■	■	■
	■	■	■	■
	■	■	■	■
	■	■	■	■
	■	■	■	■
	■	■	■	■
	■	■	■	■
	■	■	■	■
	140 x 161 x 186	140 x 161 x 186	140 x 161 x 186	140 x 161 x 186
	2,8	2,8	2,8	2,8

Switch-disconnectors characteristics

Compact NSX100 NA DC PV to NSX500 NA DC PV

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Compact NSX200 NA DC PV.

PB110847.eps



Compact NSX200 NA DC PV.

PV Switch			
Number of poles			
Electrical characteristics as per IEC 60947-3			
Rated current (A) (free air + no venting)	In	40 °C	
Altitude	m	2000	
Rated insulation voltage (V)	Ui		
Rated impulse withstand voltage (kV)	Uimp		
Rated operational voltage (V)	Ue	DC	
Type of circuit breaker			
Rated short circuit withstand current (kA rms),	Icw/Icm	t = 1 s	
Rated conditionnal short-circuit current	Iq	kA	
	with back-up fuse	A gPV	
Rated conditionnal short-circuit current	Iq with circuit breaker	kA with MCCB	
Utilization category			
Suitability for isolation			
Pollution degree			
Durability			
Endurance (C-O cycles)	mechanical		
	electrical	1000 V	In
Installation and connections			
Control	manual	toggle	
		direct or extended rotary handle	
	motor mechanism		
Connections	fixed	front connection	
		long rear connection	
	plug-in (on base)	front connection	
		rear connection	
	withdrawable (on chassis)	front connection	
		rear connection	
Additional measurement, indication and control auxiliaries			
Indication contacts	OF	auxiliary contact	
	SD, SDE	trip, fault-trip	
Voltage releases	MX, MN	shunt trip/undervoltage release	
Installation			
Accessories	crimp lugs / bare cable connector		
	terminal extensions and spreaders		
	escutcheons		
	terminal shields and interphase barriers		
	Din rail adapter		
Dimensions and weight			
Dimensions (mm) W x H x D (w/o series connection)			4P
Weight (kg) (w/o series connection)			4P

□ *On request, not available on the standard catalogue.*

(1) Switches used in PV systems are designed to break the rated current of all poles at $U_{OC\ MAX}$. To break the current when $U_{OC\ MAX}$ is equal to 1000 V, for instance, four poles in series (two poles in series for each polarity) are required. In double ground fault situations, the circuit breaker or switch must break the current at full voltage with only two poles in series. Such switchgear is not designed for that purpose and could sustain irremediable damage if used the break the current in a double ground fault situation. For this reason double ground faults must be avoided at all costs. Insulation monitoring devices or overcurrent protection in grounded system detect the first fault. Staff shall locate it and clear it without delay.

	NSX100 NA DC PV	NSX160 NA DC PV	NSX200 NA DC PV	NSX400 NA DC PV	NSX500 NA DC PV
	4	4	4	4	4
	100 heatsink - IP4X	160 heatsink - IP4X	220 heatsink - IP4X	400 heatsink - IP2X	500 heatsink - IP2X
	■	■	■	■	■
	1000 (1)	1000 (1)	1000 (1)	1000 (1)	1000 (1)
	8	8	8	8	8
	1000	1000	1000	1000	1000
	2,5	2,5	2,5	6	6
	10	10	10	10	10
	100	160	200	320	400
	10 NSX125 TM DC PV	10 NSX160-200 TM DC PV	10 NSX200 TM DC PV	-	-
	DC22-A	DC22-A	DC22-A	DC22-A	DC22-A
	■	■	■	■	■
	3	3	3	3	3
	10000	10000	10000	5000	5000
	1500	1000	1000	1000	1000
	■	■	■	■	■
	■	■	■	■	■
	■	■	■	■	■
	■	■	■	■	■
	■	■	■	■	■
	□	□	□	□	□
	□	□	□	□	□
	□	□	□	□	□
	□	□	□	□	□
	■	■	■	■	■
	■	■	■	■	■
	■	■	■	■	■
	■	■	■	■	■
	■	■	■	■	■
	■	■	■	■	■
	■	■	■	■	■
	■	■	■		
	140 x 161 x 186	140 x 161 x 186	140 x 161 x 186	185 x 255 x 110	185 x 255 x 110
	2,8	2,8	2,8	8,1	8,1

Accessories and auxiliaries

Overview of Compact NSX100 to 500 NA DC PV

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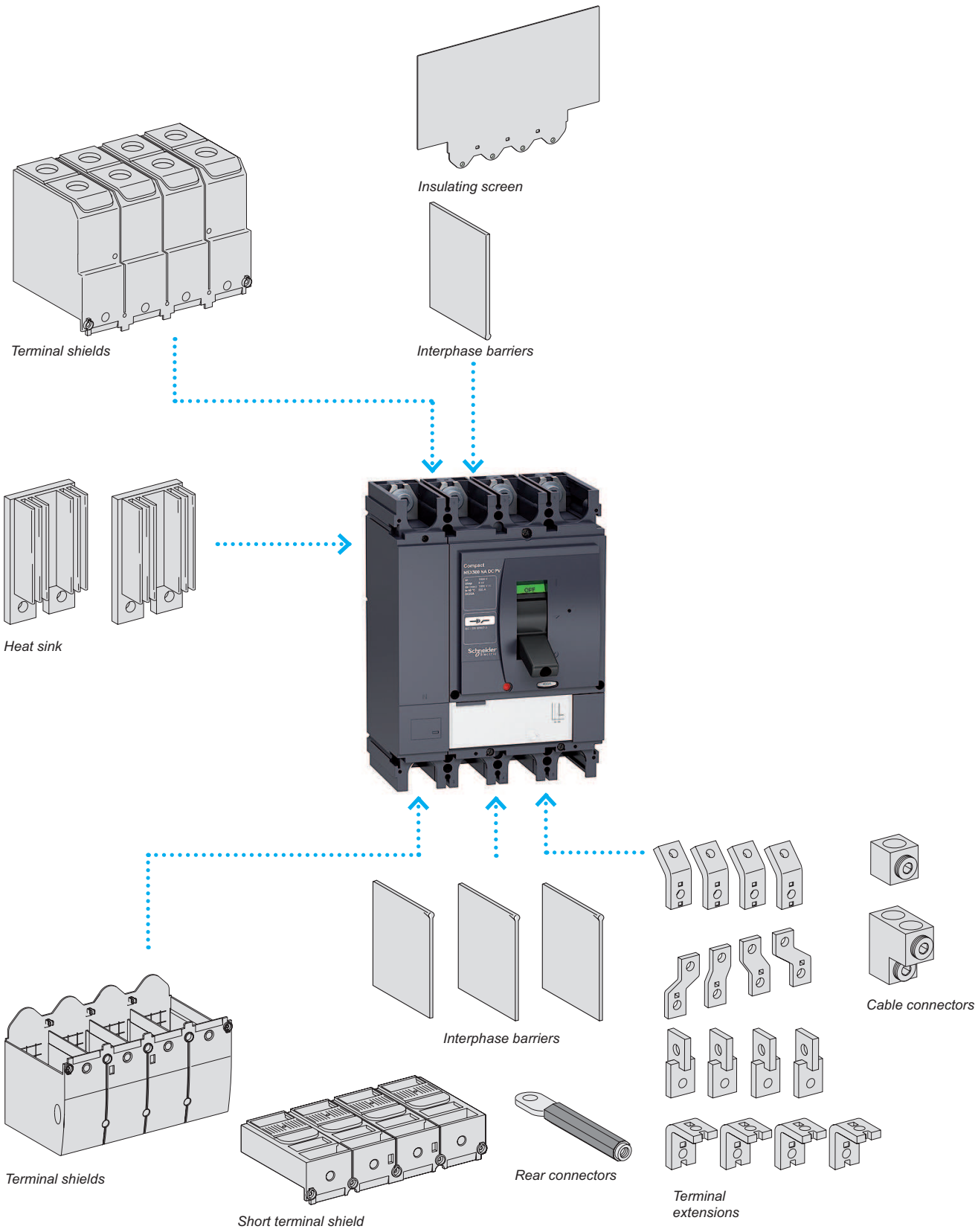

Overview of Compact NSX80 to 200 TM DC PV

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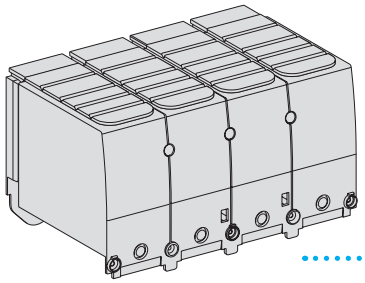
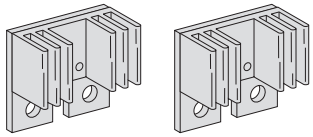
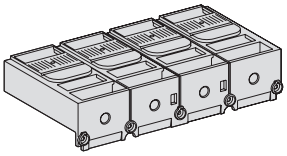


Terminal shields

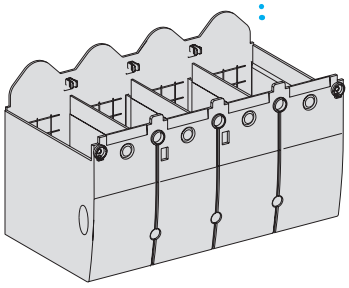


Heat sink

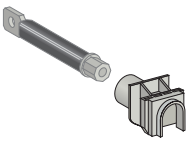




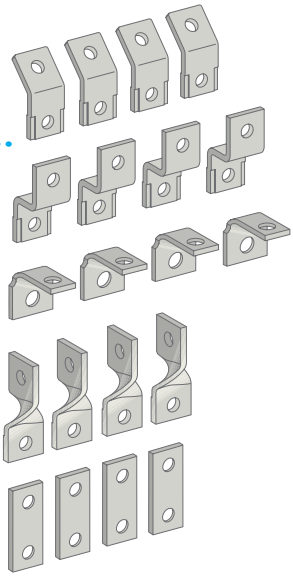
Short terminal shield



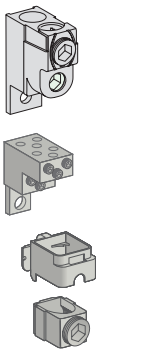
Terminal shields



Rear connectors



Terminal extensions



Cable connectors

Compact NSX DC PV
Temperature derating

DC-PV switch-disconnectors

Compact NSX NA DC PV

IP	Bottom interphase barrier	Bottom terminal shield	Top interphase barrier	Top terminal shield	Top series connection	Maximum current (A): I_{th} 40 °C	45 °C	50 °C	55 °C	60 °C	65 °C	70 °C	Cooper cable section (1)
NSX100 NA DC PV 4P													
IP0	3 (LV429329)	No	1 (LV429329)	No	Short 2X LV438328	100	100	100	100	100	100	100	Cu 35 mm²
IP4X	No	LV429518	No	LV438327	Short 2X LV438328	100	100	100	100	100	100	100	Cu 35 mm²
NSX160 NA DC PV 4P													
IP0	3 (LV429329)	No	1 (LV429329)	No	Short 2X LV438328	160	160	160	160	160	155	145	Cu 70 mm²
IP0	3 (LV429329)	No	1 (LV429329)	No	Long 2X LV438339	160	160	160	160	160	160	160	Cu 70 mm²
IP4X	No	LV429518	No	LV438327	Short 2X LV438328	160	160	160	160	150	145	135	Cu 70 mm²
NSX200 NA DC PV 4P													
IP0	3 (LV429329)	No	1 (LV429329)	No	Short 2X LV438328	200	195	190	180	170	160	150	Cu 95 mm²
IP0	3 (LV429329)	No	1 (LV429329)	No	Long 2X LV438339	200	200	200	200	195	185	170	Cu 95 mm²
IP4X	No	LV429518	No	LV438327	Short 2X LV438328	190	180	175	165	155	150	140	Cu 95 mm²
NSX400 NA DC PV 4P													
IP2X	No	LV432594	No	LV438337	LV438338	400	400	400	400	400	390	380	Cu 240 mm²
IP0	3 (LV432570)	No	1 (LV429329)	No	LV438338	400	400	400	400	400	400	400	Cu 240 mm²
NSX500 NA DC PV 4P													
IP2X	No	LV432594	No	LV438337	LV438338	500	500	490	470	450	435	420	Cu 2 x 150 mm²
IP0	3 (LV432570)	No	1 (LV429329)	No	LV438338	500	500	500	500	500	500	480	Cu 2 x 150 mm²

(1) Temperature rise have been checked with four cables on bottom connections with section and length according to IEC60947-1 Table 9
a. When used in array boxes, with short connection to string protections the cross section of the bars or cables shall have a higher cross section.
b. When cables have a cross section lower than the value indicated an additional 0.9 derating coefficient shall be applied.
Values in the tables are provided for vertical mounting only. In case of horizontal mounting consult us.

DC-PV overcurrent protection

Compact NSX TM DC PV

Maximum current (A): I_{th} 20 °C	25 °C	30 °C	35 °C	40 °C	45 °C	50 °C	55 °C	60 °C	65 °C	70 °C	Cooper cable section (1)
NSX80 TM DC PV											
88	86	84	82	80	77	75	72	69	66	63	Cu 25 mm²
NSX125 TM DC PV											
137.5	135	131	128	125	121	116	112	108	103	98	Cu 50 mm²
NSX160 TM DC PV											
176	172	168	164	160	153	147	142	136	130	118	Cu 70 mm²
NSX200 TM DC PV											
Consult us											

For Compact NSX the overload protection is calibrated at 40 °C and for C60 DC-PV at 20 °C. This means that when the ambient temperature is less or greater than these temperatures, the Ir protection pickup is slightly modified.

■ Temperature rise for Compact range have been checked with terminal shields (mandatory) heat sink on top, four cables on bottom connections with section and length according to IEC60947-1 Table 9.

■ Values in the tables are provided for vertical mounting only. In case of horizontal mounting consult us. To obtain the tripping time for a given temperature:

□ see the tripping curves for 20 or 40 °C

□ determine tripping times corresponding to the Ir value (thermal setting on the device), corrected for the breaker ambient temperature as indicated in the tables below.

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Compact NSX200 NA DC PV with short heat sinks and interphase barriers

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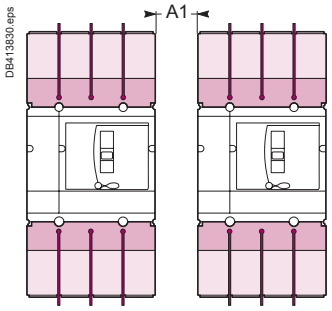
Compact NSX200 NA DC PV with long heat sinks and interphase barriers

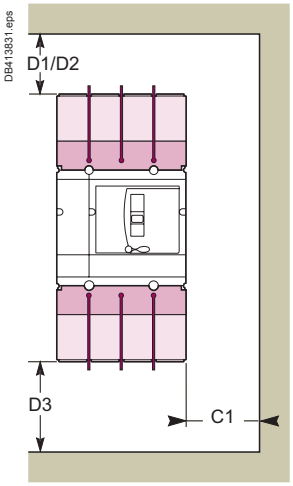
Safety clearance using terminals shields

- Terminal shields are mandatory for all DC-PV circuit breakers (U ⩽ 1000 V DC).
- Terminal shields can be used in option with DC PV switch disconnectors (U ⩽ 1000 V DC).

Minimal distance between two adjacent devices



Minimal distance between the device and panels

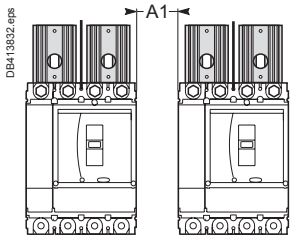


Dimensions	Insulation, insulated bars or painted sheet metal			
	C1	D1	D3	A1
NSX80-200 TM DC PV NSX100-200 NA DC PV	30	30	30	30
NSX400-500 NA DC PV	30	30	30	30

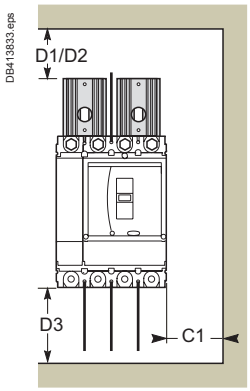
Safety clearance with interphase barriers

- Interphase barriers can used **only with DC PV switch disconnectors** (U ⩽ 1000 V DC).

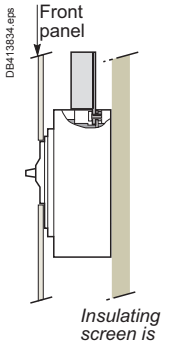
Minimal distance between two adjacent devices



Minimal distance between the device and panels



Rear panel: insulation screen mandatory



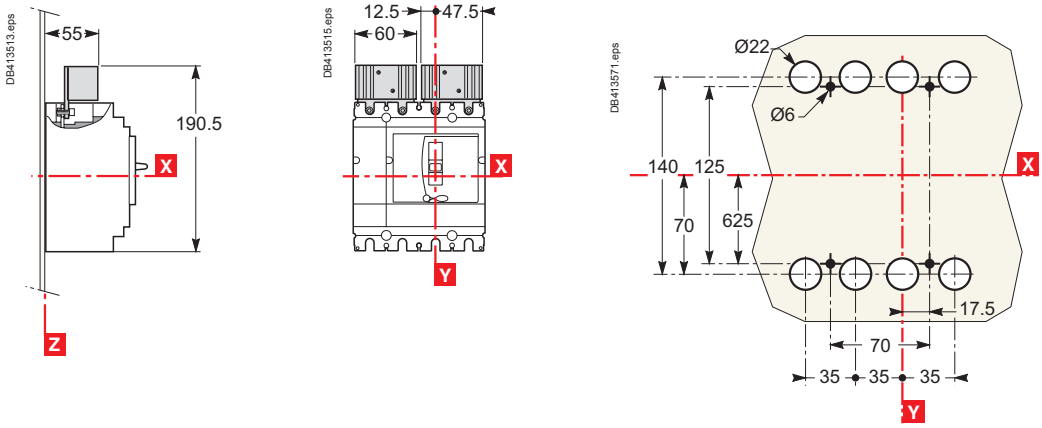
Dimensions	Insulation, painted sheet metal			Sheetmetal			
	C1	D1	D3	C1	D2	D3	A1
NSX100-200 NA DC PV	50	50	100	50	100	100	50
NSX400-500 NA DC PV	70	70	100	70	100	100	70

Compact (fixed version) 4P connection of poles, dimensions and mounting

Compact NSX100 to NSX630 DC PV

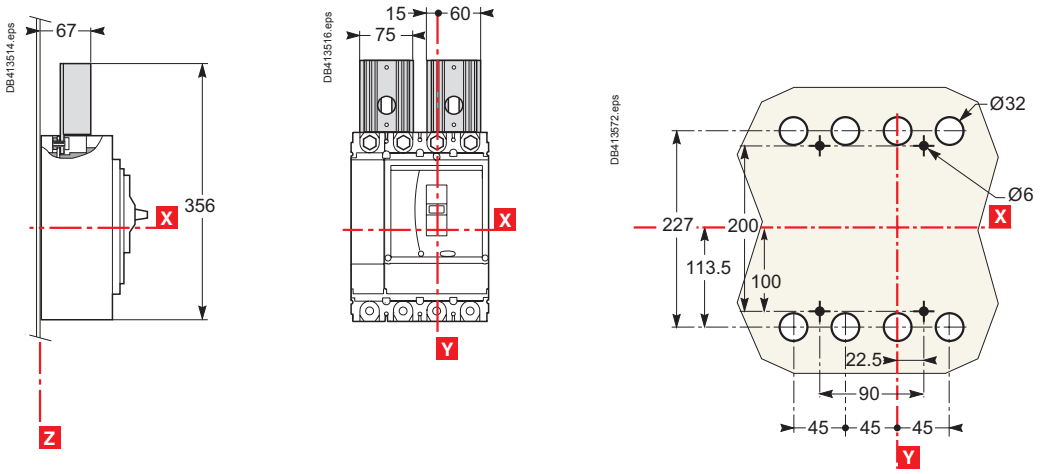
4P fixed version (Compact NSX100-250 DC PV)

With series connections

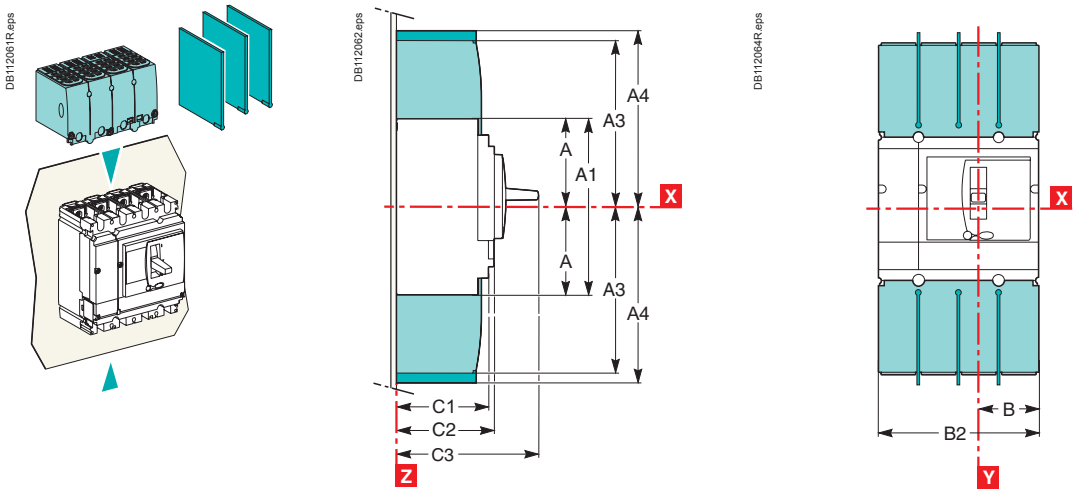


4P fixed version (Compact NSX400-630 DC PV)

With series connections



Dimensions



Interphase barriers.
Long terminal shields.

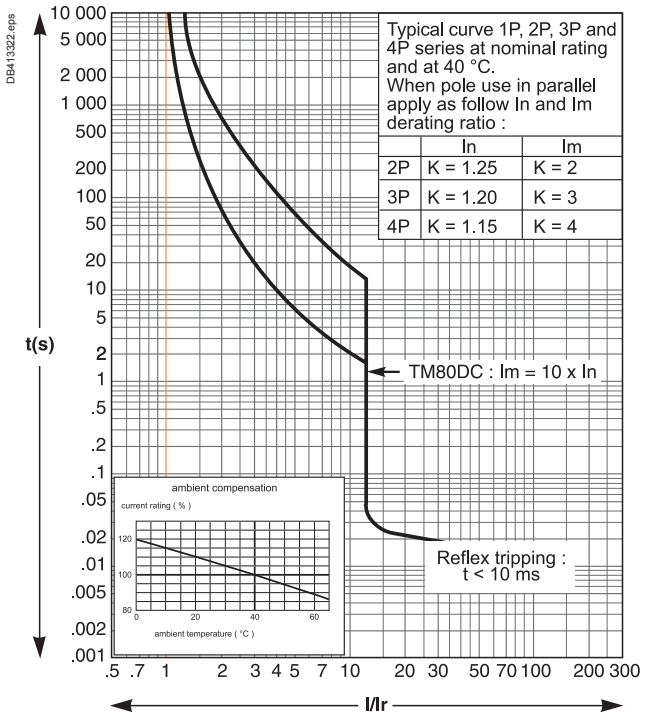
Long terminal shields (also available for NSX400/630 DC spreaders with 52.5 mm pitch: B2 = 210 mm).

Type	A	A1	A3	A4	B	B2	C1	C2	C3
NSX100/160/250	80.5	161	145	178.5	52.5	140	81	86	126
NSX400/630	127.5	255	200	237	70	185	95.5	110	168

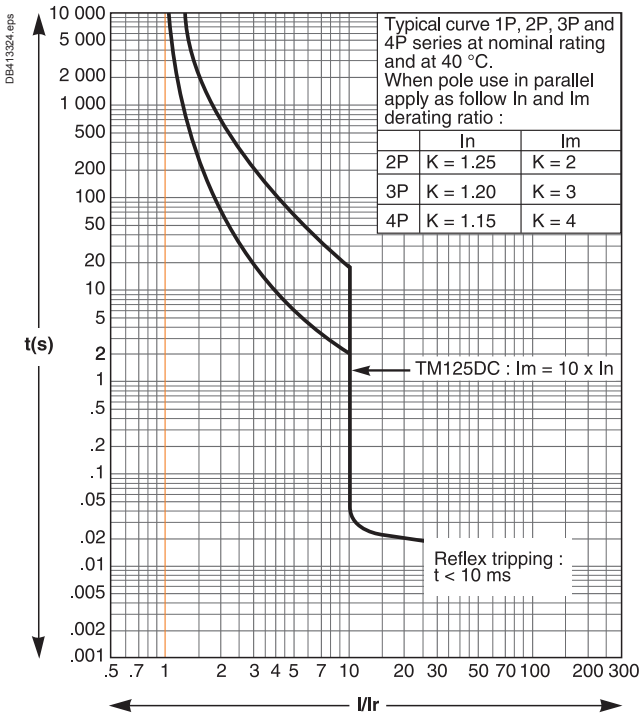
Compact NSX80 to 200 DC PV
Tripping curves

TM magnetic trip units

TM80DC

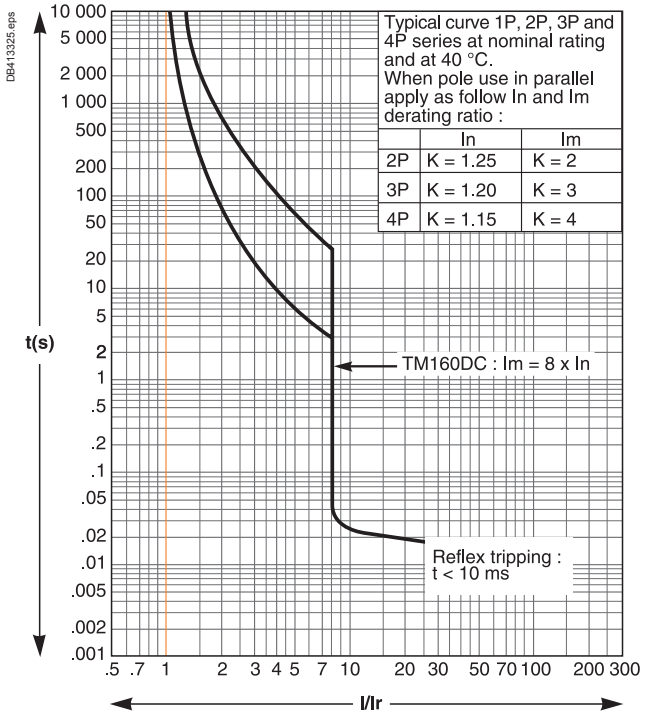


TM125DC

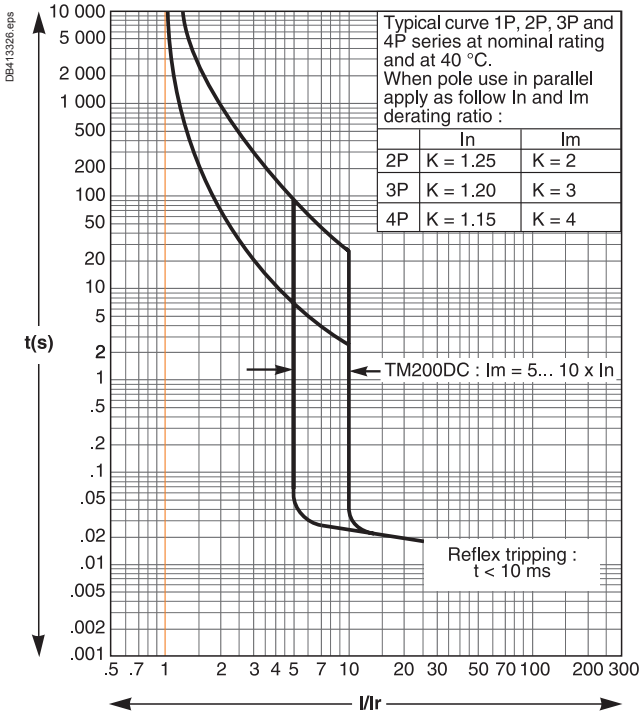


Reflex tripping.

TM160DC



TM200DC

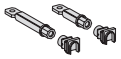
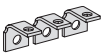
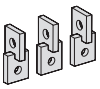
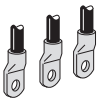
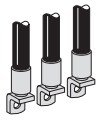


Reflex tripping.

Compact NSX80 TM DC PV to NSX500 NA DC PV

Compact NSX		Connection and insulation accessories mandatory					
Circuit breaker							
		Upstream connection (x2)		Upstream terminal shields		Downstream terminal shields	
NSX 80 TM DC PV 4P	**LV438081**	connection plate with heath sink	**LV438328**	**LV438327**		**LV429518**	
NSX 125 TM DC PV 4P	**LV438126**		**LV438328**	**LV438327**		**LV429518**	
NSX 160 TM DC PV 4P	**LV438161**		**LV438328**	**LV438327**		**LV429518**	
NSX 200 TM DC PV 4P	**LV438201**		**LV438328**	**LV438327**		**LV429518**	
Switch disconnector							
		Upstream connection (x2)		Upstream terminal shields	or interphase barrier	Downstream terminal shields	or interphase barrier
NSX100 NA DC PV 4P	**LV438100**	connection plate with heath sink	**LV438328**	**LV438327**	**LV429329**	**LV429518**	**LV429329**
NSX160 NA DC PV 4P	**LV438160**		**LV438328**	**LV438327**	**LV429329**	**LV429518**	**LV429329**
NSX200 NA DC PV 4P (≤ 200 A at 40 °C)	**LV438250**		**LV438328**	**LV438327**	**LV429329**	**LV429518**	**LV429329**
NSX200 NA DC PV 4P (= 200 A at 55 °C)	**LV438250**	connection plate with heath sink (long)	**LV438339**	not available	**LV429329**	**LV429518**	**LV429329**
NSX400 NA DC PV 4P	**LV438300**	connection plate with heath sink	**LV438338**	**LV438337**	**LV432570**	**LV432594**	**LV432570**
NSX500 NA DC PV 4P	**LV438500**		**LV438338**	**LV438337**	**LV432570**	**LV432594**	**LV432570**

Compact NSX80 TM DC PV to NSX500 NA DC PV

Connection accessories (Cu or Al)			NSX80-200 DC	NSX400-500 DC
Rear connections				
 DB404346.eps	2 long		LV429236	LV432476
Cable connectors				
 DB404347.eps	Snap-on, for cable:	1.5 to 95 mm² ; ⩽ 160 A	Set of 2 LV429246	
			Set of 3 LV429242	
			Set of 4 LV429243	
		25 to 95 mm² ; ⩽ 250 A	Set of 2 LV429255	
			Set of 3 LV429227	
			Set of 4 LV429228	
		120 to 185 mm² ; ⩽ 250 A	Set of 2 LV429247	
			Set of 3 LV429259	
			Set of 4 LV429260	
 DB404348.eps	For 1 cable from 35 to 300 mm²		Set of 3	LV432479
			Set of 4	LV432480
	For 2 cables from 35 to 240 mm²		Set of 3	LV432481
			Set of 4	LV432482
 DB404349.eps	Voltage measurement input for cable connector 185 mm² or 1 x 300 mm² or 2 x 240 mm²		Set of 2 LV429348	LV429348
Terminal extensions				
 DB104885.eps	Right-angle terminal extensions		Set of 2 LV429250	
			Set of 3 LV429261	LV432484
			Set of 4 LV429262	LV432485
 DB104884.eps	Straight terminal extensions		Set of 2 LV429251	
			Set of 3 LV429263	
			Set of 4 LV429264	
 DB104806.eps	Edgewise pads		Set of 3	LV432486
			Set of 4	LV432487
Crimp lugs for copper cable (supplied with 2 or 3 interphase barriers)				
 DB404350.eps	For cable 120 mm²		Set of 3 LV429252	
			Set of 4 LV429256	
	For cable 150 mm²		Set of 3 LV429253	
			Set of 4 LV429257	
	For cable 185 mm²		Set of 3 LV429254	
			Set of 4 LV429258	
	For cable 240 mm²		Set of 3	LV432500
			Set of 4	LV432501
	For cable 300 mm²		Set of 3	LV432502
			Set of 4	LV432503
Crimp lugs for aluminium cable (supplied with 2 or 3 interphase barriers)				
 DB404351.eps	For cable 150 mm²		Set of 3 LV429504	
			Set of 4 LV429505	
	For cable 185 mm²		Set of 3 LV429506	
			Set of 4 LV429507	
	For cable 240 mm²		Set of 3	LV432504
			Set of 4	LV432505
	For cable 300 mm²		Set of 3	LV432506
			Set of 4	LV432507
Barriers				
 DB115920.eps	Interphase barriers		Set of 6 LV429329	LV432570

Note: *All accessories and auxiliaries are identical to the Compact NSX DC range.*

Compact NSX80 TM DC PV to NSX500 NA DC PV

Circuit breakers and switch-disconnectors

Check the applicable ☐ and enter the appropriate square boxes information in the rectangles

Circuit breaker

		Quantity
Compact type	**NSX80 TM DC PV**	
	NSX125 TM DC PV	
	NSX160 TM DC PV	
	NSX200 TM DC PV	

Special connection and insulation accessories for circuit breakers (mandatory)

Upstream	connection plates with heatsink (x2)	
	special terminal shields	
Downstream	standard long terminal shields	

Switch-disconnector

		Quantity
Compact type	**NSX100 NA DC PV**	
	NSX160 NA DC PV	
	NSX200 NA DC PV (160 A)	
	NSX200 NA DC PV (200 A)	
	NSX400 NA DC PV	
	NSX500 NA DC PV	

Special connection and insulation accessories for switch-disconnectors (mandatory)

Upstream ≤ 200A at 40 °C	connection plates with heatsink (x2)	
	special terminal shields	
	or interphase barriers	
Upstream = 200A at 55 °C	connection plates with heatsink (x2)	
	special terminal shields	
	or interphase barriers	
Upstream ≥ 400A	connection plates with heatsink (x2)	
	special terminal shields	
	or interphase barriers	
Downstream	standard long terminal shields	
	or interphase barriers	

Connection

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)			
NSX400/630 connectors	1 cable 35▫ to 300▫			
	2 cables 35▫ to 240▫			
Voltage measurement input	For bare cable connector	NSX100/250 ≤ 185▫		
	For bare cable connector	NSX400/630		
Right-angle terminal extensions				
Straight extensions	NSX100/250			
Edgewise extensions	NSX400/630			
Cu cable lugs	NSX100/250	120▫ ☐	150▫ ☐	185▫
	NSX400/630		240▫ ☐	300▫
Al cable lugs	NSX100/250		150▫ ☐	185▫
	NSX400/630		240▫ ☐	300▫
Interface barriers				Set of 6

Indication and measurements

Auxiliary contact OF, SD or SDE					Standard ☐	Low level ☐
SDE adapter (TM trip unit)						☐

Remote operation

Electrical operation	Motor mechanism		AC ☐	DC ☐	**V**	☐
Voltage releases	Instantaneous	MX	AC ☐	DC ☐	**V**	☐
		MN	AC ☐	DC ☐	**V**	☐
	Fixed time delay	MN	AC ☐	DC ☐	**V**	☐
	Adjust. time delay	MN	AC ☐	DC ☐	**V**	☐

Rotary handles

Direct	Black ☐		Red on yellow front ☐
	MCC conversion access. ☐		CNOMO conversion access. ☐
Extended	Black ☐		Red on yellow front ☐
			Telescopic handle for withdrawable device ☐
Indication auxiliary	1 early-break switch ☐		2 early-break switches ☐
			Wiring accessory for early-make switches ☐

Locking

Toggle (1 to 3 padlocks)	Removable ☐		Fixed ☐
Rotary handle	Keylock adapter (keylock not included)		☐
	Keylock Ronis 1351B.500 ☐		Profalux KS5 B24 D4Z ☐
Motor mechanism	Keylock adapter + Keylock Ronis (special)		NSX100/250 ☐
	Keylock adapter (keylock not included)		NSX400/630 ☐
	Keylock Ronis 1351B.500 ☐		Profalux KS5 B24 D4Z ☐

Interlocking

Mechanical	Toggle ☐		Rotary handle ☐
By key (2 keylocks, 1 key)	Keylock adapter (keylock not included)		☐
For rotary handle	Keylock Ronis 1351B.500 ☐		Profalux KS5 B24 D4Z ☐

Installation accessories

Front-panel escutcheon	Toggle	☐
	Rotary handle, motor mechanism, escutcheon collar; IP405	☐
Toggle cover		☐
Sealing accessories		☐
DIN rail adapter	NSX100/250	☐

Communication (1)

	NSX Cord L = 0.35 m ☐		NSX Cord L = 1.3 m ☐
	NSX Cord U > 480 V AC L = 0.35 m ☐		NSX Cord L = 3 m ☐
BSCM			☐
Communicating motor mechanism 220-240 V			☐
Switchboard front display module FDM121			☐
FDM mounting accessory			☐
Modbus interface			☐
Stacking accessory			☐
ULP line termination			☐
RJ45 connectors female/female ☐	Wire length RJ45 L = 0.3 m ☐		Wire length RJ45 L = 0.6 m ☐
	Wire length RJ45 L = 1 m ☐		Wire length RJ45 L = 2 m ☐
	Wire length RJ45 L = 3 m ☐		Wire length RJ45 L = 5 m ☐

(1) NSX100-250 DC only.

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