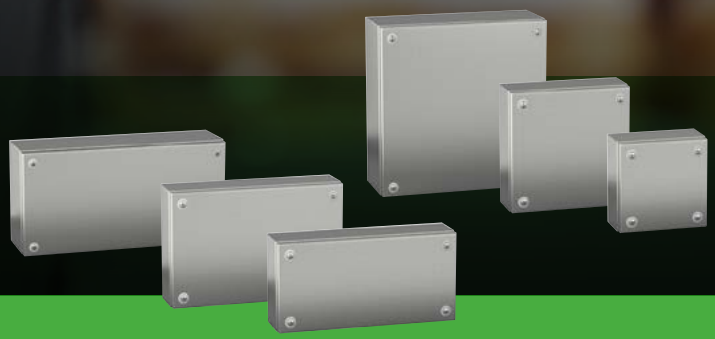
Spacial SBX

Universal Enclosures
Catalog 2020

Stainless-Steel Industrial Boxes



se.com/enclosures

Life Is On | Schneider Electric

Spacial SBX
Stainless-Steel Industrial Boxes
Introduction

> Simplicity, ergonomics and quality.

PB503675-66

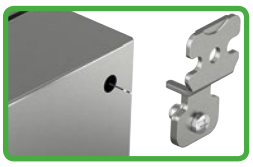
PB503676

Selection
- 6 sizes
- 80 mm and 120 mm in depth.

PB503663-23

Sturdy with Good Ingress Protection
- Thickness of 1.2 mm
- Mechanical protection rating up to IK10.
- Ingress protection rating up to IP66.

PB503674-32



Added Value to your Work
- Quality and esthetics.
- Same dimensions as Steel boxes (SBM range).
- Mounting with versatile external brackets.
- Certification*: UL, Veritas and BVM.

PB503673

Ergonomics
- Cover opening and accessory mounting with **just a screwdriver**.

** Certifications pending*

> Personalized cut-outs.

PB503672-50

Save Time

- Enclosure delivered with cut-outs, so you can focus on your added-value work

Get a High Quality Cut-Out

- Cut-outs made with an industrial laser machine for a perfect result, burr-free, with high accuracy machining tolerances

Get the Best Esthetic

- Scotch-Brite® brushed.
- External surfaces with no scratches

Spacial SBX
Stainless-Steel Industrial Boxes
Characteristics

Characteristics	Spacial SBX Flat box
	Box with plain faces Single-piece body (rectangular structure). Front design incorporating folded gutters. Flat rear. 2 drilled profiles for installing mounting plates and DIN Rails, with mounting centers of 12.5 mm. Equipped with 4 half-turn thread screws to help ensure maximum watertightness. Polyurethane sealing gasket. **Protection of personnel** Earthing connection mandatory for all boxes: Spacial SBX Stainless-Steel boxes are equipped with an M6 x 10 earthing stud welded in the cover, to be linked with the body for equipotential connection. Earthing braid to be ordered separately (Ø 6.4 mm terminal).
Material	AISI 304L Stainless-Steel, thickness of 1.2 mm.
Finish	Scotch-Brite® brushed.
Ingress protection rating	IP66
Mechanical protection rating	IK10
Standard compliance with enclosure standard	IEC 62208 and the RoHS directive.
Certifications*	■ UL, BV, BVM ■ Nema Type 4, 4X, 13 according to UL 508A standard ■ Fire class: M0
Installation	**Indoor installation** Direct wall-mounting (4 x Ø 10 mm holes with sealing plugs to maintain the IP rating) or with the help of fixing lugs installed from the outside (to be ordered separately, see the specific accessory pages). Distance between mounting holes enables the installation of the box in the same locations as many existing enclosures. **Outdoor installation** Compliant with IEC 62208 regarding type tests specified in §9.12 (resistance to ultra-violet (UV) radiation) and §9.13 (resistance to corrosion). It is always advisable to place the box under shelter to avoid water stagnation on the upper part of the enclosure.
Maximum load capacity	On the body: 50 kg/m²
Other characteristics	**Vibration constraints** Specific construction of the Spacial SBX - Single-piece body (rectangular structure). The rear is flat without added parts - this helps ensure compliance with certain vibration constraints. The tests were conducted according to the marine application by Bureau Veritas Marine*.

** Certifications pending*

Spacial SBX
Stainless-Steel Industrial Boxes
Selection Guide

Dimensions			Box	Mounting plate	DIN rail	Fixing lugs	Sealing kit
Height (mm)	Width (mm)	Depth (mm)	SBX				
150	150	80	**NSYSBX15158**	**NSYMM11SB**	**NSYAMRD15357SB**	**NSYAEFPFSBX***	**NSYPPSB***
	300	80	**NSYSBX15308**	**NSYMM13SB**	**NSYAMRD30357SB**		
200	200	80	**NSYSBX20208**	**NSYMM22SB**	**NSYAMRD20357SB**		
	300	80	**NSYSBX20308**	**NSYMM23SB**	**NSYAMRD30357SB**		
	400	120	**NSYSBX204012**	**NSYMM24SB**	**NSYAMRD40357SB**		
300	300	120	**NSYSBX303012**	**NSYMM33SB**	**NSYAMRD30357SB**		
Supply							
			1	1	10	4	1

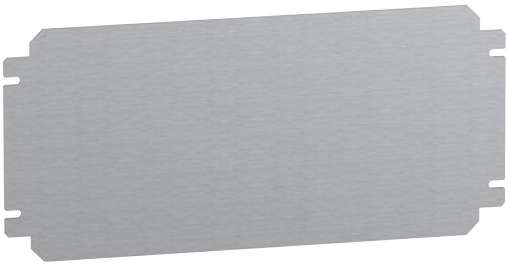
** Same reference for all dimensions.*

Life Is On Schneider Electric

Version : 1.0 - 16/04/2020
UEMKCAT005EN

Mounting Accessories

PB502100-67



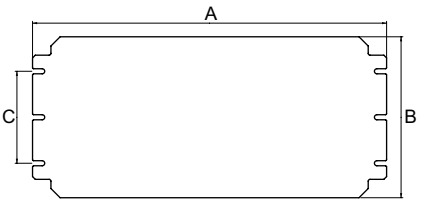
Mounting Plates

■ **Material:** galvanized steel.
■ **Installation:** mounting by means of 2* or 4 x Ø 5 mm self-tapping screws, Pozidriv head, ref. **NSYAMFSB** (1). Mounting plate installation points compatible with many other brands of accessories.
■ **Supply:** 1 unit, supplied without screws.

** Only 2 screws for mounting plates with height of 150 mm.*

Dimensions		Mounting plate				
Height (mm)	Width (mm)	Dimensions (mm)			Thickness	References
		A	B	C		
150	150	135	135	-	1.5	**NSYMM11SB**
	300	135	285	-	1.5	**NSYMM13SB**
200	200	185	185	100	1.5	**NSYMM22SB**
	300	185	285	100	1.5	**NSYMM23SB**
	400	185	385	100	2	**NSYMM24SB**
300	300	185	185	200	1.5	**NSYMM33SB**

PB300809



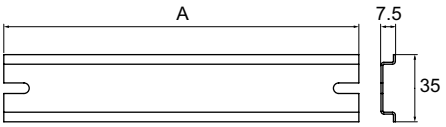
PB502101-65

DIN Rails

■ **Description:** symmetrical DIN rails, 35 x 7.5 mm.
■ **Installation:** mounting by means of 2 x Ø 5 mm self-tapping screws, Pozidriv head, ref. **NSYAMFSB** (1).
■ **Supply:** 10 rails, supplied without screws.

Box	DIN rail	
Width (mm)	Length A (mm)	References
150	135	**NSYAMRD15357SB**
200	185	**NSYAMRD20357SB**
300	285	**NSYAMRD30357SB**
400	385	**NSYAMRD40357SB**

PB300810EN



(1) All boxes are delivered with 5 x Ø 5 mm self-tapping screws.

Spacial SBX

Stainless-Steel Industrial Boxes

Common Accessories

PB5502104-16

Mounting Accessories

Self-Tapping Screws

- **Description:** self-tapping screws with Pozidriv head for Ø 5 mm holes.
- **Supply:** 100 units.

Reference
NSYAMFSB

PB5502103-23

Sealing Kit

- **Description:** the sealing kit enable to seal the opening of the box using sealing wire and lead seals.
- **Color:** green.
- **Ingress protection rating:** IP66.
- **Installation:** replaces the standard sealing washer on the box.
- **Supply:** 1 unit.

Reference
NSYPPSB

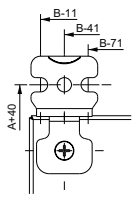
PB5502979-16

Fixing lugs

- **Description:** fixing lugs to be mounted directly on the rear of the box, either in a horizontal or vertical position. Their versatile design complies with the mounting dimensions of many other enclosures.
- **Installation:**
  - horizontal or vertical position,
  - distance between wall and enclosure: 10 mm,
  - only requires a screw-driver.
- **Maximum load:** 70 kg.
- **Supply:** 4 fixing lugs, screws and pre-mounted sealing gaskets.

Reference
NSYAEFPFSBX

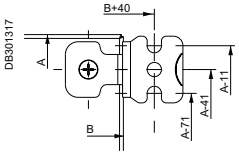
DB301317



Vertical position.

A: Enclosure height
B: Enclosure width

DB301317



Horizontal position.

Life Is On Schneider Electric

Cable Entries Overview

New

New

Characteristics	Simple-5	Synthetic snap-in cable gland	Stainless-Steel cable gland with lamellar insert	
	ISO cable gland.	Without thread. Easy assembly and disassembly. Suitable for walls from 0.5 to 4 mm thick.	Lamellar technology provides excellent resistance to traction as well as excellent torsional protection. For outdoor use, or for aggressive environments.	
Material	PA6 Polyamide, neoprene gasket	PA6 Polyamide, neoprene gasket	AISI 304L or AISI 316L Stainless-Steel, neoprene gasket	
Color	RAL 7035 gray	RAL 7035, RAL 7001, RAL 9005. Other colors on demand	-	
Cable entry material	Combined	Non armored	Non armored	
Installation possibilities	On cable gland plate or directly on enclosure			
Flexibility of the installation	Low			
Reversibility	Medium			
Ingress protection rating	IP68	IP66	IP68	
Cable retention	High	High	High	
Cable diameter (mm)	From 12 to 40	From 16 to 40	From 12 to 40	
Cable installation time	Slow	Slow	Slow	
Quantity of cables to be fitted for a given surface	+	+	+	
Cable entries for cables with connectors	No	No	No	
Thread type	-	Metric EN 60423 Other types are available on demand	Metric EN 60423	
Cut-out dimensions (mm)	Various circular hole diameters according to cable diameter			
External dimensions (mm)	From Ø 15 to 46	From Ø 22 to 46	From Ø 14 to 43	
Certificates	Glow wire resistance: 960°C	UL 94 V-2 (except for the size M40)	UL 94 V-2	
Standard	Compliance with VDE, UL and CSA	DIN EN 62444, UL 514B, UL 514B§8.26.7	DIN EN 62444, UL 514	
Flame resistance	750 °C	-	-	
Temperature range	-	-20°C to + 100°C	-20°C to + 100°C	
References*			**AISI 304L**	**AISI 316L**
	ISM71501	**NSYCGSP16**	**NSYCGX12**	**NSYCGX12H**
	ISM71502	**NSYCGSP20**	**NSYCGX16**	**NSYCGX16H**
	ISM71503	**NSYCGSP25**	**NSYCGX20**	**NSYCGX20H**
	ISM71504	**NSYCGSP32**	**NSYCGX25**	**NSYCGX25H**
	ISM71505	**NSYCGSP40**	**NSYCGX32**	**NSYCGX32H**
	ISM71506		**NSYCGX40**	**NSYCGX40H**
	IMT36150			

** For details, type the reference in the search engine at se.com/enclosures*

Spacial SBX

Stainless-Steel Industrial Boxes

Common Accessories

PB503659-39

For NSYEB2050D8.

PB500084-43

For all other references.

Earthing Accessories

Earthing Braids

■ **Description:** earthing connection braid for high frequencies. Helps protect against disturbing electric currents that are produced.
■ **Material:** tinned copper.
■ **Supply:** 10 earthing braids (nuts and washers not included).
■ Reference by unit. Order by multiples of 10 (10, 20, 30…).

Length (mm)	Width (mm)	Section (mm²)	Terminal Ø (mm)	References
150	12	6	6.5	**NSYEB156D6**
	17	10	6.5	**NSYEB1510D6**

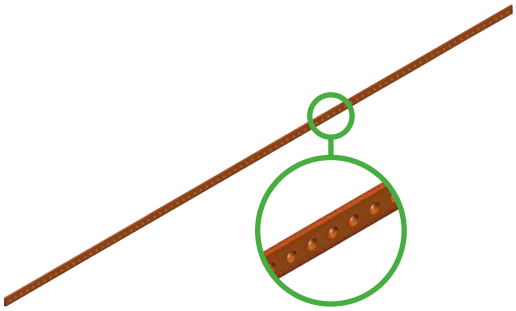
B500217-53

Earthing Cables

■ **Description:** make it easier to install a good earthing connection, at an optimized length.
■ **Material:** brass and copper alloy terminal, green and yellow PVC insulating sheath.
■ **Supply:** 10 earthing cables (nuts and washers not included).
■ Reference by unit. Order by multiples of 10 (10, 20, 30…).

Length (mm)	Section (mm²)	Terminal Ø (mm)	References
150	6	6.4	**NSYEL136D6**
160	6	6.4	**NSYEL166D6**
220	6	6.4	**NSYEL226D6**
250	10	6.4	**NSYEL2510D6**

PB500948



Earthing Strip

■ **Description:** perforated brass bar, 15 x 3 mm. 1 m long. 87 connection points, M5 drill holes.
■ **Supply:** 1 earthing strip and mounting elements.

Reference
NSYECB1M153

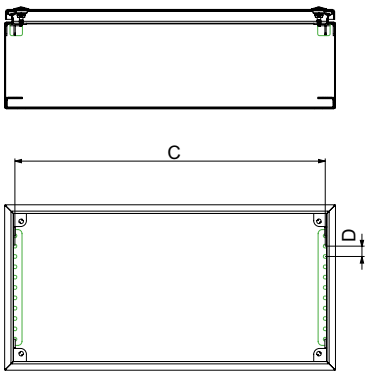
Stainless-Steel Industrial Boxes

Technical Information

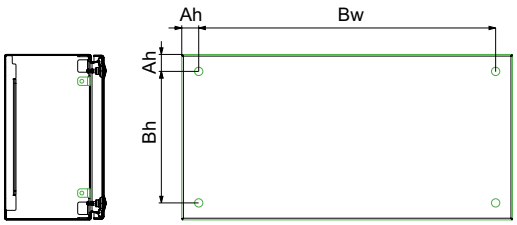
Dimensions			Sheet thickness	Box installation			Mounting	
Height (mm)	Width (mm)	Depth (mm)	(mm)	Ah (mm)	Bh (mm)	Bw (mm)	C (mm)	D (mm)
150	150	80	1.2	20.5	109	109	125	12.5
	300	80	1.2	20.5	109	259	275	12.5
200	200	80	1.2	20.5	159	159	175	12.5
	300	80	1.2	20.5	159	259	275	12.5
	400	120	1.2	20.5	159	359	375	12.5
300	300	120	1.2	20.5	259	259	275	12.5

DB301315

Section A-A



Section B-B

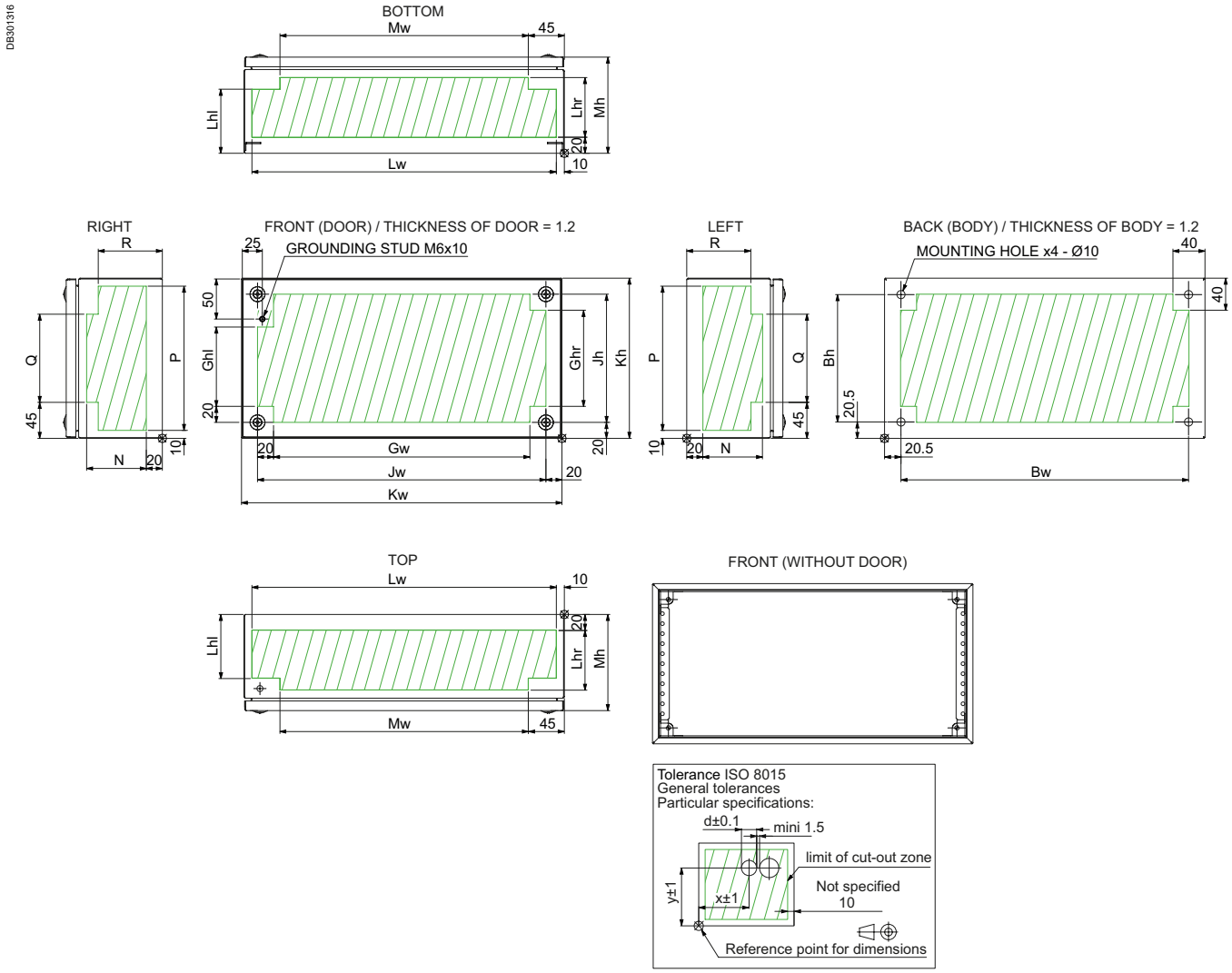


Spacial SBX
Stainless-Steel Industrial Boxes
Technical Information

Limit of Cut-Out Zone

Dimensions			References	Dimensions for allowed zone for cut-out																
Height (mm)	Width (mm)	Depth (mm)		Bh (mm)	Bw (mm)	Ghr (mm)	Ghl (mm)	Gw (mm)	Jh (mm)	Jw (mm)	Kh (mm)	Kw (mm)	Lhl (mm)	Lhr (mm)	Lw (mm)	Mh (mm)	Mw (mm)	N (mm)	P (mm)	Q (mm)	R (mm)
150	150	80	**NSYSBX15158**	109	109	70	49	70	110	110	150	150	40	34.5	130	80	60	34.5	130	60	40
	300	80	**NSYSBX15308**	109	259	70	49	220	110	260	150	300	40	34.5	280	80	210	34.5	130	60	40
200	200	80	**NSYSBX20208**	159	159	120	99	120	160	160	200	200	40	34.5	180	80	110	34.5	180	110	40
	300	80	**NSYSBX20308**	159	259	120	99	220	160	260	200	300	40	34.5	280	80	210	34.5	180	110	40
	400	120	**NSYSBX204012**	159	359	120	99	320	160	360	200	400	80	74.5	380	120	310	74.5	180	110	80
300	300	120	**NSYSBX303012**	259	259	220	199	220	260	260	300	300	80	74.5	280	120	210	74.5	280	210	80

DB301316



Life Is On Schneider Electric

Notes

Life Is On | Schneider Electric

Schneider Electric Industries SAS

35, rue Joseph Monier
CS 30323
92506 Rueil Malmaison Cedex
France

RCS Nanterre 954 503 439
Capital social 928 298 512 €
www.se.com

04-2020
UEMKCAT005EN

© 2020 - Schneider Electric. All Rights Reserved.
All trademarks are owned by Schneider Electric Industries SAS or its affiliated companies.

This document has been printed on recycled paper.