7

Accessories

Mounting
Installation accessories

Metal Silkscreened

For ranges
S3D, CRN, S3X,
PLM, S57

NSYMM32

NSYMM33, NSYMM36,
NSYMM3025, NSYMM66,
NSYMM55

From the size of 1000 × 1000

Mounting plate with sliding supports.

Plain and silkscreened mounting plates

- Galvanised-steel mounting plates.
- Galvanised-steel mounting plates, silkscreened for easier distribution of the products to be installed.
- Centimetric grid pattern.

Supply: 1 mounting plate and fixing elements.

For floor-standing enclosure (mm)		Height (mm)	Width (mm)	Surface (dm²)	Maximum load (kg)	Weight (kg)	Reference	
Height	Width						Metal	Silkscreened
200	200	165	150	2.5	40	0.4	NSYMM22	-
200	300	265	150	4	40	0.6	NSYMM23	-
250	200	215	150	3.2	40	0.5	NSYMM2520	-
250	400	150	350	5.3	60	0.8	NSYMM2540	-
250	500	150	450	6.8	60	1.1	NSYMM2550	-
300	200	274	153	3.8	60	0.6	NSYMM32	-
300	250	250	200	5	60	0.7	NSYMM3025	-
300	300	250	250	6.3	60	0.9	NSYMM33	-
300	400	250	350	8.8	60	1.25	NSYMM43*	NSYMS43
300	450	250	400	10.0	60	1.4	NSYMM3045	-
300	600	250	550	13.8	60	2	NSYMM36	-
400	400	350	350	12.3	60	1.7	NSYMM44	NSYMS44
400	600	350	550	19.3	90	2.7	NSYMM64*	NSYMS64
400	800	350	750	26.3	90	3.8	NSYMM48	-
500	300	450	250	11.3	60	1.65	NSYMM53*	NSYMS53
500	400	450	350	15.8	90	2.2	NSYMM54	NSYMS54
500	500	450	450	20.3	90	2.95	NSYMM55*	NSYMS55
600	400	550	350	19.3	90	2.70	NSYMM64	NSYMS64
600	500	550	450	24.8	90	3.6	NSYMM65	-
600	600	550	550	30.3	135	4.4	NSYMM66	NSYMS66
700	500	650	450	29.3	135	4.25	NSYMM75	NSYMS75
700	600	650	550	35.8	135	5.2	NSYMM76	-
800	600	750	550	41.3	135	8.1	NSYMM86*	NSYMS86
800	800	750	750	56.3	150	11	NSYMM88	-
1000	600	950	550	52.3	150	10.2	NSYMM106	-
1000	800	950	750	71.3	150	13.9	NSYMM108*	-
1000	1000	950	950	93.1	180	18.1	NSYMM1010	-
1200	600	1150	550	65.8	180	12.8	NSYMM126	-
1200	800	1150	750	89.1	180	17.35	NSYMM128*	-
1200	1000	1150	950	112.4	180	21.9	NSYMM1210*	-
1200	1200	1150	1150	135.7	180	26.45	NSYMM1212	-
1400	1000	1350	950	131.7	180	25.7	NSYMM1410	-

* Plate with reversible dimensions; it can be installed in enclosures with inverted dimensions.
Example:
Plate ref. **NSYMM64** can be used for the following enclosures:
- H 600 × W 400 mm.
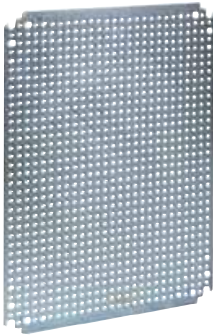- H 400 × W 600 mm.

See also
the accessories

Step slides
page **7/7**

Rails and uprights
page **7/50**

7

Schneider Electric

Mounting
Installation accessories

Microperforated mounting plate

- Galvanised-steel microperforated mounting plates.
- They considerably reduce the products installation time thanks to the holes prepared to receive the self-tapping screws.
- Holes with ∅ 3.6 mm in steps of 12.5 mm.

Supply: 1 mounting plate and fixing elements.

For ranges
S3D, CRN, S3X, PLM, S57

a = 12.5

∅3.6

25 25 12.5   12.5

∅8.5

∅6.5
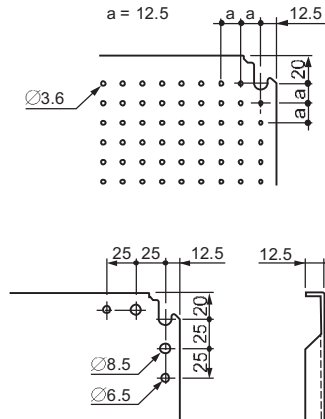
From the size of 1000 × 1000

For enclosures		Height (mm)	Width (mm)	Surface (dm²)	Maximum load (kg)	Weight (kg)	Reference
Height (mm)	Width (mm)						
300	200	265	150	4	60	0.55	NSYMF32
300	300	265	250	6.6	60	0.95	NSYMF33
300	400	250	350	9.3	60	1.35	NSYMF43*
400	400	365	350	12.8	60	1.85	NSYMF44
500	300	450	250	11.6	60	1.70	NSYMF53
500	400	465	350	16.3	90	2.40	NSYMF54
500	500	465	450	20.9	90	3.05	NSYMF55
600	400	550	365	20.1	90	2.95	NSYMF64*
600	500	550	450	24.5	90	3.60	NSYMF65
600	600	565	550	31.1	135	4.55	NSYMF66
700	500	665	450	29.9	135	4.40	NSYMF75
800	600	765	550	42.1	135	7.70	NSYMF86*
800	800	765	750	57.4	150	10.55	NSYMF88
1000	600	965	550	53.1	150	9.75	NSYMF106
1000	800	965	750	91.7	150	13.30	NSYMF108*
1000	1000	965	965	93.1	180	17.10	NSYMF1010
1200	600	1165	565	65.8	180	12.05	NSYMF126
1200	800	1165	765	89.1	180	16.35	NSYMF128
1200	1000	1165	965	112.4	180	20.65	NSYMF1210*

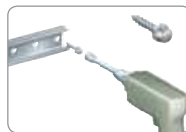* Reversible mounting plate; it can be installed in enclosures with inverted dimensions.
Example:
Plate ref. **NSYMF64** can be used for the following enclosures:
- H 400 × W 600 mm.
- H 600 × W 400 mm.

**See also
the accessories**

**Self-tapping screws
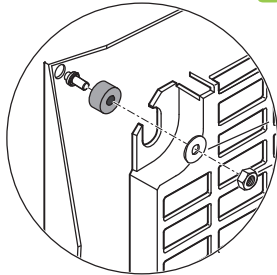ref. NSYS16M5HS
page 7/67**

**Step slides
page 7/7**

7

Mounting
Installation accessories

Telequick mounting plate

- Zinc-coated-steel Telequick mounting plates. They allow cable guides and ducting and other installation accessories to be clipped on, making it easier to install switchgear.
- 11 × 26 mm slots.
- Switchgear fixing by clip-on nuts.

Supply: 1 mounting plate and fixing elements.

For ranges
S3D, CRN, S3X,
PLM, S57

Mounting-plate elevators. Supply: 6 elevators.
Ref. **NSYEMR**
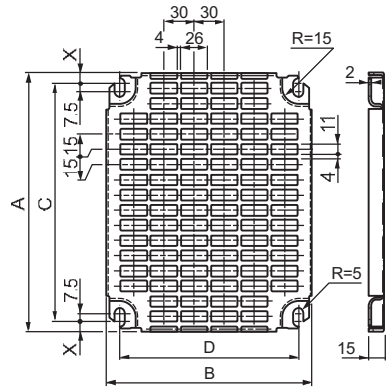
For enclosures (mm)		Dimensions (mm)					Surface (dm²)	Load (kg)	No. of perforations in		Reference
Height	Width	A	B	C	D	X			Height	Width	
300	200	255	153.7	231.3	125	11.85	3.3	0.30	16	5	NSYMR32
300	250	253	228	231.3	175	10.85	5.1	0.40	16	8	NSYMR3025
300	300	255	251	231.3	225	11.85	5.8	0.50	16	9	NSYMR33
300	400	255	354	235	325	10	8.3	0.75	18	11	NSYMR34
400	300	348.7	251	325	225	11.85	8.1	0.70	22	9	NSYMR43
400	400	345	351	325	325	10	11.5	1	24	11	NSYMR44
400	600	345	551	325	525	10	18.4	1.55	24	19	NSYMR46
500	300	453.7	251	430	225	11.85	10.7	0.85	29	9	NSYMR53
500	400	450	351	430	325	10	15.2	1.30	31	11	NSYMR54
500	500	450	451	430	425	10	19.7	1.60	31	14	NSYMR55
600	400	555	351	530	325	12.5	18.8	1.50	38	11	NSYMR64
600	500	555	451	535	425	10	24.4	2	38	14	NSYMR65
600	600	555	551	535	625	10	29.9	2.50	38	17	NSYMR66
600	800	551	750	531	724	10	40.7	3.10	36	24	NSYMR68
700	500	645	451	625	425	10	28.4	2.35	44	14	NSYMR75
800	600	750	551	730	525	10	40.7	3.20	51	17	NSYMR86
800	800	750	751	730	725	10	55.7	3.95	51	24	NSYMR88
800	1000	751	951	731	925	10	70.8	5.30	49	31	NSYMR810
1000	600	945	551	925	525	10	51.4	4.05	64	17	NSYMR106
1000	800	945	751	925	725	10	70.3	5	64	24	NSYMR108
1000	1000	945	951	925	925	10	89.2	6.50	62	31	NSYMR1010
1000	1200	951	1151	931	1125	10	108.8	7.45	62	37	NSYMR1012
1200	600	1145	551	1125	525	10	62.4	5.70	75	17	NSYMR126
1200	800	1145	751	1125	725	10	85.3	6.40	75	24	NSYMR128
1200	1000	1145	951	1125	925	10	108.2	7.80	75	31	NSYMR1210
1400	1000	1345	951	1325	925	10	127.3	9.10	88	31	NSYMR1410

To install two mounting plates in a single enclosure, also order reference **NSYCRNGSDR**.
To install the plate in an enclosure with 6 studs, also order reference **NSYEMR**.

See also
the accessories

Clip-on nuts
page **7/27**

Lyre-shaped clamp for plate
ref. **NSYGCR**
page **7/123**

Plastic cable support
ref. **NSYSPC**
page **7/122**

Schneider Electric

Mounting
Installation accessories

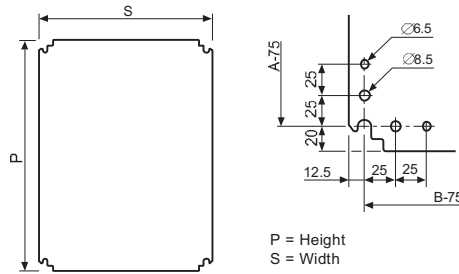
Bakelite   Polyester

For ranges
S3D, CRN, S3X,
PLM

Bakelite and polyester mounting plate

● Made in black bakelite RAL-9005 or from polyester reinforced with fibreglass, RAL-7035 grey colour.
● They are coupled directly to the rear of the actual enclosure or to the sliding plate supports.
● Double-door enclosures offer the option of installing one full plate or two individual plates. See guide below.

Supply: 1 mounting plate and fixing elements.

P = Height
S = Width

For floor-standing enclosure (mm)		Dimensions (mm)		Thickness (mm)		Weight (kg)		Reference	
Height (A)	Width (B)	Height (P)	Width (S)	Bakelite	Polyester	Bakelite	Polyester	Bakelite	Polyester
300	200	265	150	4	4	0.2	0.3	NSYMB32	NSYMPP32
300	250	265	200	4	4	0.2	0.4	NSYMB3025	NSYMPP3025
300	300	265	250	4		0.3		NSYMB33	-
400	300	325	250	4	4	0.5	0.7	NSYMB43	NSYMPP43
500	400	465	350	4	4	0.9	1.2	NSYMB54	NSYMPP54
600	400	565	350	4	4	1.1	1.4	NSYMB64	NSYMPP64
600	500	565	450	4		1.4		NSYMB65	-
700	500	665	450	4	4	1.7	2.1	NSYMB75	NSYMPP75
800	600	765	550	4	5	2.3	3.8	NSYMB86	NSYMPP86
1000	600	965	550	5		4.2		NSYMB106	-
1000	800	965	750	5	5	5.7	6.5	NSYMB108	NSYMPP108
1200	1000	1150	950	5		8.3		NSYMB1210	-

*To install 2 individual plates, you will need reference **NSYCRNGSDR**; see details on page **7/7**.

Insertable nuts

For devices installation on the mounting plate.

Supply: 50 units.

References per unit. To be ordered in multiples of 50 (50, 100, 150, etc.).

Insertable nuts	
Thread	Reference
M3	NSYTE3
M4	NSYTE4
M5	NSYTE5
M6	NSYTE6
M8	NSYTE8
M10	NSYTE10
M12	NSYTE12

7

**See also
the accessories**

Step slides for polyester
enclosures
pages **6/29** and **6/60**

Step slides
page **7/7**

Mounting
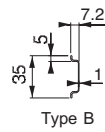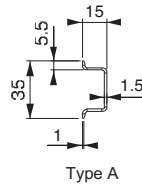## Installation accessories

DIN-rail chassis

- Aluminium uprights.
- Steel profiles (symmetric section type A or B according to the reference).
- Screws, washers and nuts required to install the mounting plate, supplied.
- Gasket adapters, ref. **NSYAMCSF** (batch of 4 adapters, non supplied).

Composition: 1 DIN-rail chassis and fixings.

For enclosure		Type of rails	Number of rails	Reference
Height	**Width**			
300	300	B	4	**NSYMD33**
400	300	B	4	**NSYMD43**
500	400	B	4	**NSYMD54**
600	400	B	6	**NSYMD64**
600	600	A	6	**NSYMD66**
700	500	B	6	**NSYMD75**
800	600	A	6	**NSYMD86**
1000	800	A	6	**NSYMD108**
1200	800	A	7	**NSYMD128**
Batch of 4 adapters				**NSYAMCSF**

For ranges
S3D, CRN, S3X, PLM

DIN mounting plate adapter
Ref. **NSYAMCSF**

Type A

Type B

7

See also
the accessories

Slides
page **7/7**

Stand-offs
page **7/64**

Profiles
page **7/50**

Mounting
Installation accessories

Step slides for mounting plate

Set of 4 supports intended for installation in enclosures with depths of 200, 250, 300 and 400 mm. The rail allows the depth of the plate and other accessories to be adjusted in steps of 12.5 mm.

Supply: 4 sliding supports.

For enclosure depth (mm)	Reference
200	NSYSDCR200
250	NSYSDCR250
300	NSYSDCR300
400	NSYSDCR400
300	NSYSDRSDCR300*
400	NSYSDRSDCR400*

* For installation in enclosures from 1000 to 1200 mm.

Set of 2 sliding supports
NSYCRNGSDR

Installation of 2 mounting plates in enclosures with a width of 1000 or 1200 mm, depth of 300 mm.

For ranges
S3D, CRN, S3X

12.5

30

44
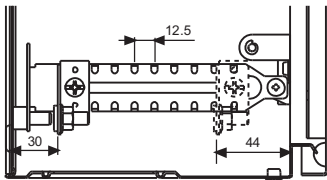
Installation of 2 plates in enclosures with a width of 1200 mm.
1. Installation on the 6 backstuds. 2. Two plates at different depths
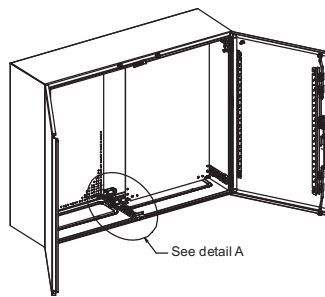
1. Installation on the backstuds.

See detail A

Detail A
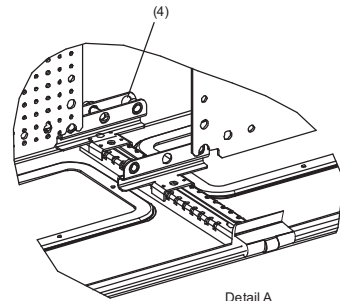
2. Installation of two sliding plates with adjustable depth.

(4)

(3)

(1)

(6)

(4)

(6)

(2)

(3)

(1)

(6)

(4)

(5)

(6)

(2)

(4)
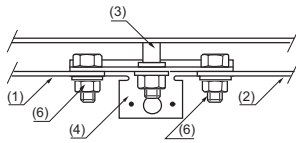
(1) Left plate
(2) Right plate
(3) Central backstud
(4) NSYCRNGSDR bracket (includes fixings)
(5) NSYSDRSDCR sliding rail
(6) M8 × 20-mm screw
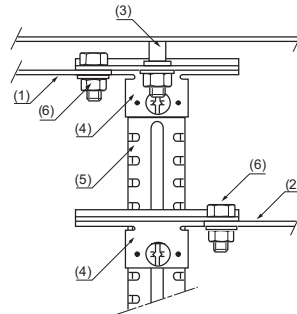
**See also
the accessories**

Step slides for polyester
enclosures
pages **6/29** and **6/60**

Mounting
Installation accessories

Aluminium vertical rails

- Fixing in the enclosure with M8 nuts, ref. **NSYAMCSF** (batch of 4 adapters to be ordered separately).
- Material: aluminium (length: 1200 mm, in steel).

Height	Material	Reference	Composition
300	Aluminium	**NSYMDVR3**	10
400	Aluminium	**NSYMDVR4**	10
500	Aluminium	**NSYMDVR5**	10
600	Aluminium	**NSYMDVR6**	10
700	Aluminium	**NSYMDVR7**	10
800	Aluminium	**NSYMDVR8**	10
1000	Aluminium	**NSYMDVR10**	10
1200	Steel	**NSYMDVR12**	2
Length: 3 m	Aluminium	**NSYMDVR3M**	10

For ranges
S3D, CRN, PLM,
S3X

Screw with slotted hexagonal head and captive washer

Type	Reference				
	10 mm	12 mm	16 mm	18 mm	Nut
M4	NSYS10M4H	-	NSYS16M4H	-	NSYNM4
M5	-	NSYS12M5H	-	NSYS16M4H	NSYNM5
M6	-	NSYS12M6H	-	NSYS18M6H	NSYNM6

7

Schneider Electric

Accessories

Mounting
Installation accessories

Slides and brackets

They allow the depth of the plates and rails to be adjusted.
- Length of 90 mm, with bracket for enclosures with depths of 150 and 200 mm.
- Length of 130 mm, with bracket for enclosures with depths of 250 and 300 mm.
- Bracket for slides (customised mounting plate).

Composition: 10 units.

References per unit. To be ordered in multiples of 10 (10, 20, 30, etc.).

Description	Reference
90-mm slide	NSYSB90
130-mm slide	NSYSB130
Bracket	NSYFB

For ranges
S3D, CRN, S3X,
PLM

**See also
the accessories**

Fixings
page **7/67**

Mounting
Installation accessories

Mounting plate

- Plate provided with reinforcement flange around the entire perimeter. The vertical edges are provided with a triple fold, to prevent finger cuts.
- Depth adjustable with a pitch of 25 mm, provided with plastic shoe for easier sliding.
- Once the plate is fixed, in advanced position, the sliding shoe can be easily removed, to increase the available plate surface.
- Material: galvanised steel.
- Maximum load: 600 kg in the back of the enclosure and 500 kg in the intermediate position.
- Installation options:
– At the sides of the enclosure with the orthogonal brackets (see page **7/13**).
– Back-to-back, with the brackets for fixing the mounting plates in back-to-back position (see page **7/16**).
- In sets made up of two or more enclosures with mounting plates, it is possible to obtain a continuous plate surface using intermediate mounting plates (see page **7/15**).

Supply: one mounting plate and sliding shoes.
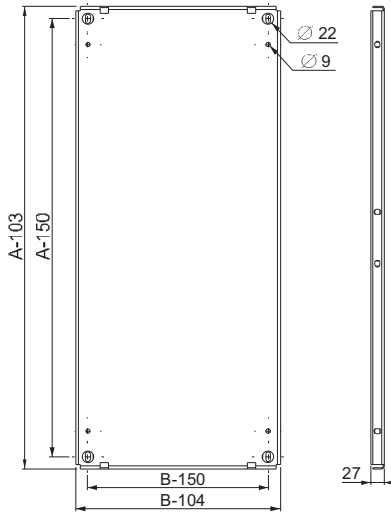
Nominal dimensions (mm)		Reference
Height (A)	Width (B)	
1200	600	**NSYMP126**
	800	**NSYMP128**
	1000	**NSYMP1210**
	1200	**NSYMP1212**
1400	600	**NSYMP146**
	800	**NSYMP148**
	1000	**NSYMP1410**
	1200	**NSYMP1412**
1600	600	**NSYMP166**
	800	**NSYMP168**
	1000	**NSYMP1610**
	1200	**NSYMP1612**
1800	600	**NSYMP186**
	800	**NSYMP188**
	1000	**NSYMP1810**
	1200	**NSYMP1812**
	1600	**NSYMP1816**
2000	600	**NSYMP206**
	800	**NSYMP208**
	1000	**NSYMP2010**
	1200	**NSYMP2012**
	1600	**NSYMP2016**
2200	600	**NSYMP226**
	800	**NSYMP228**
	1000	**NSYMP2210**
	1200	**NSYMP2212**

For ranges
SF, SM, SFX, SMX

Ø 22
Ø 9

A-103
A-150

B-150
B-104

27

7

> **Advantage:**

The Spacial.pro tool helps determine the optimum dimensions of the mounting plate.
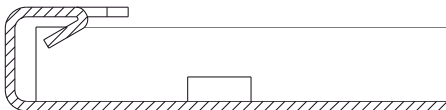
> **Advantage:**

The triple fold of the vertical edges of the mounting plate contributes to increasing the latter's rigidity and increases handling safety by preventing finger cuts.

Mounting
Installation accessories
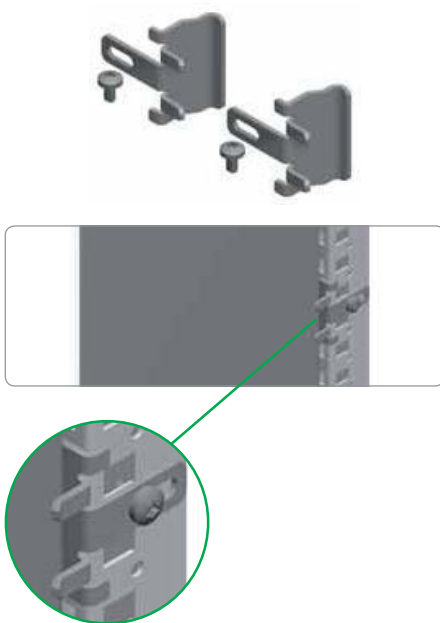
Intermediate fixing of the mounting plate, located in the back of the enclosure

- Support for additional fixing of the mounting plate, at any height of the plate, when the plate is mounted in the back of the enclosure.
- The supports minimise the vibration of the plate during the transport and operation of the panel.
- The supports are fixed to the structure when the plate is already located in the back of the enclosure.
- **Spacial SM:** fixing to 40-mm universal cross rails (1 row), installed vertically in the back of the enclosure, see page **7/36**.
- Material: zinc-coated steel.

Supply: ten units and fixing elements.

Reference by unit. Order by multiples of 10 (10, 20, 30...).

Reference
NSYSMPFB
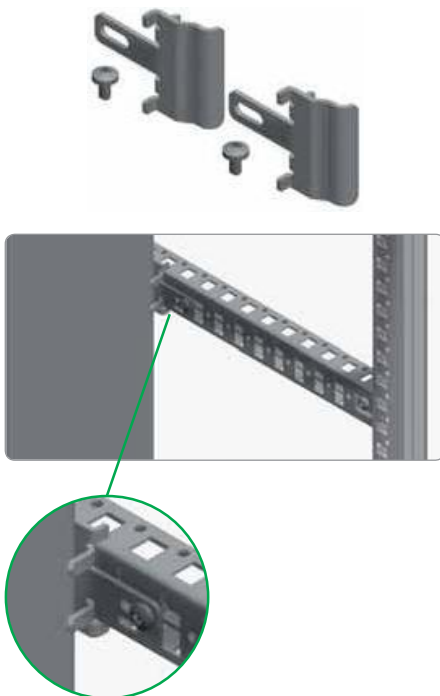
Intermediate fixing of the mounting plate, in advanced position

- Support for additional fixing of the mounting plate, at any height of the plate, when the plate is mounted in advanced position.
- The supports minimise the vibration of the plate during the transport and operation of the panel.
- The supports are mounted on light cross rails or on 40-mm (1 row) universal or quick-fixing cross rails (not supplied) (see page **7/36**).
- Material: zinc-coated steel.

Supply: ten units and fixing elements.

Reference by unit. Order by multiples of 10 (10, 20, 30...).

Reference
NSYSMPFA

7

Mounting
Installation accessories

Reinforcement for mounting plate

- Reinforcement kit for transversal mounting plate.
- Provides extra rigidity to the mounting plates and absorbs vibrations.
- Can be used as a support for fixing very heavy elements.
- Material: zinc-coated steel.
- Thickness: 1.5 mm.

Supply: two profiles, four supports for fixing to the mounting plate and fixing elements.

Nominal dimensions (mm)	Reference
Width	
800	NSYMPRK8
1000	NSYMPRK10
1200	NSYMPRK12
1600	NSYMPRK16
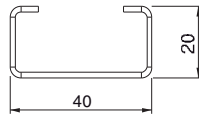
7

Accessories
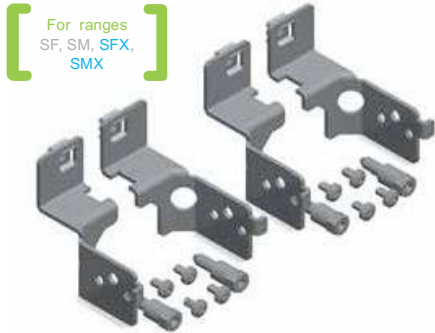
Mounting
Installation accessories

Mounting plate fixing brackets

● Mounting plate fixing brackets for direct mounting on the structure of the enclosure.
● Adjustable depth with a pitch of 25 mm.
● Maximum load (4 brackets): 600 kg.
● Material: zinc-coated steel.

Supply: four brackets and fixing elements.

Reference	For enclosure
NSYSFPB	Spacial SF
NSYSMPB	Spacial SM, Spacial SFX, Spacial SMX

Orthogonal brackets

● Orthogonal brackets designed for the installation of mounting plates on the sides of the enclosure.
● In the event of installing one plate in the back of the enclosure and one plate at the side, they must both be installed using orthogonal brackets.
● Maximum load (4 brackets): 600 kg.
● Material: zinc-coated steel.
● Spacial SFX: in order to mount the lateral mounting plate is necessary to remove the one on the back and its fixing brackets.

Supply: four brackets and fixing elements.

Reference
NSYSMPSB

7
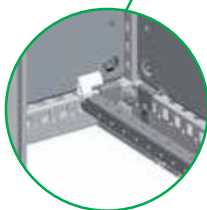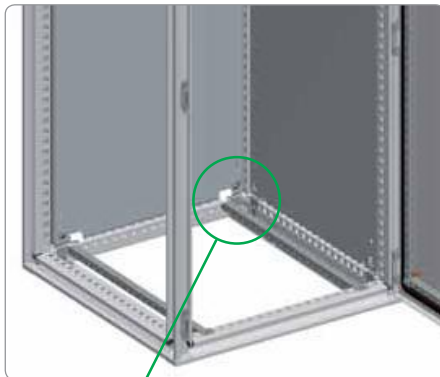
Mounting
Installation accessories
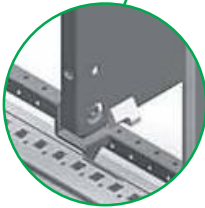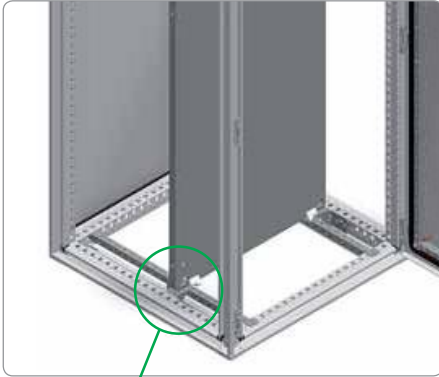
Mounting plate sliding rails

- Rails which the mounting plate slides along when inserted in the enclosure.
- Once the mounting plate is installed and fixed to the brackets, the sliding rails can be removed to maximise the cable passage surface, and can be installed depthwise in other positions.
- Material: zinc-coated steel.

Supply: two rails and fixing elements.

[For ranges SF]

Nominal dimensions (mm)	Reference
Depth	
400	**NSYSMPS4**
500	**NSYSMPS5**
600	**NSYSMPS6**
800	**NSYSMPS8**

7

Schneider Electric

Mounting
Installation accessories
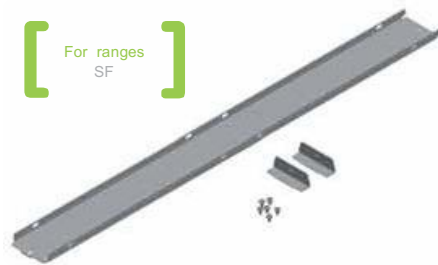
Intermediate mounting plate

- Intermediate plate used to obtain a continuous surface of the mounting plate at enclosure suites.
- Adjustable depth with a pitch of 25 mm. When the mounting plates are located in the back of the enclosure, the vertical profiles of the structure are flush with the plates, acting as an intermediate mounting plate. In this case the intermediate plate cannot be installed.
- Material: galvanised steel.

Supply: one intermediate plate and fixing elements.

For ranges SF

Nominal dimensions (mm)	Reference
Height (A)	
1200	NSYSIMP12
1400	NSYSIMP14
1600	NSYSIMP16
1800	NSYSIMP18
2000	NSYSIMP20
2200	NSYSIMP22

min. = 50 mm

7

Mounting
Installation accessories

For ranges
SF
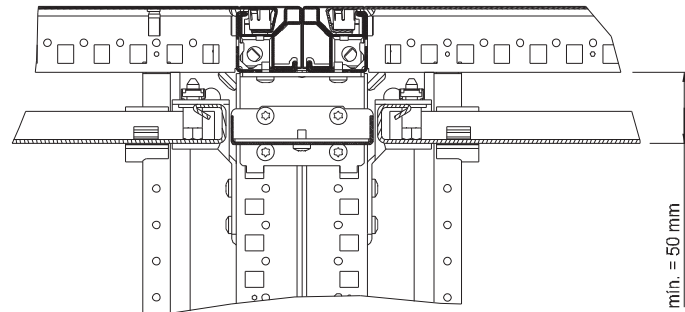
Brackets for fixing mounting plates in back-to-back position

● Brackets for fixing two mounting plates, in back-to-back position, doubling the mounting surface.
● Adjustable with a pitch of 25 mm.
● Material: zinc-coated steel.

Supply: four brackets for fixing back-to-back and fixing elements.

Reference
NSYSBTB
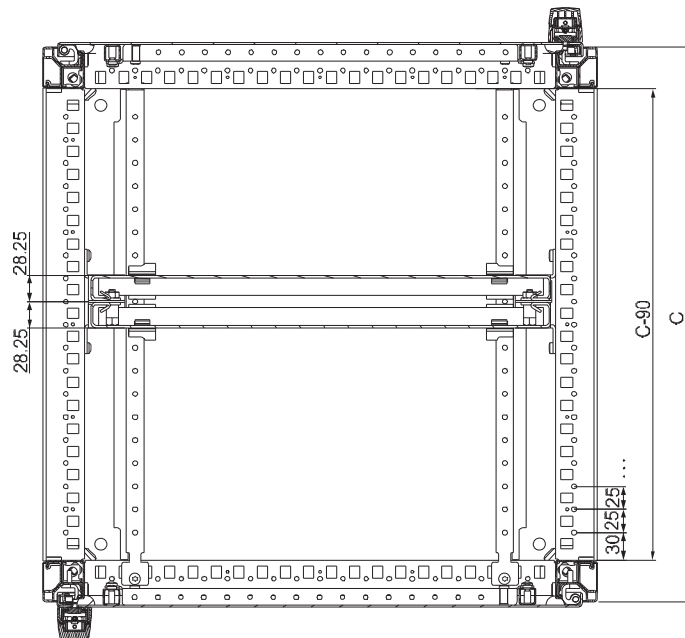
Mounting
Installation accessories
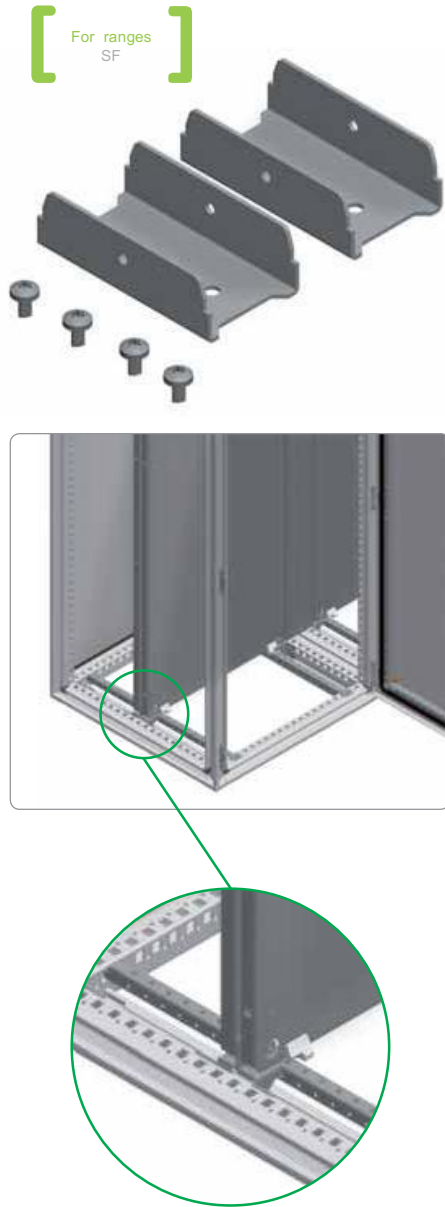
For ranges
SF

Brackets for fixing intermediate mounting plates in back-to-back position

● Brackets for fixing two intermediate mounting plates, in back-to-back position, doubling the mounting surface.
● Adjustable with a pitch of 25 mm.
● Material: zinc-coated steel.

Supply: 2 brackets for fixing intermediate plates back-to-back and fixing elements.

Reference
NSYSIBTB

28.25

28.25

C-90

C

7
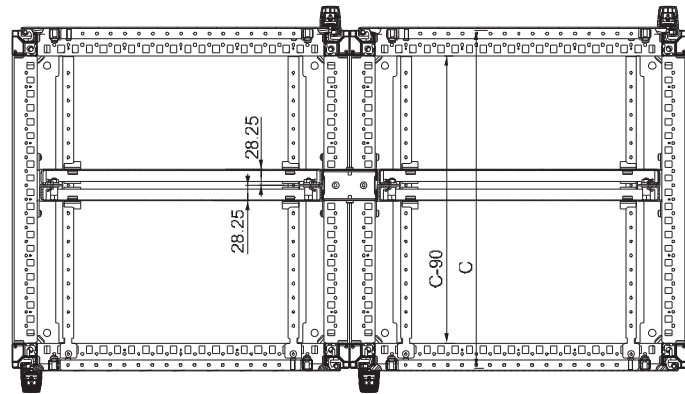
Mounting
Installation accessories

For ranges
SF, SFX

Side entry rails for the mounting plate

- Side entry device for the mounting plates when coupling **Spacial SF** enclosures or **Spacial SFX**.
- The mounting plates can be coupled with one another, and are fixed to the side entry guide by pressure.
- Material: zinc-coated steel.

Supply: two rails and fixing elements.

Nominal dimensions (mm) Width (B)	Reference
600	NSYSMPSE6
800	NSYSMPSE8
1000	NSYSMPSE10
1200	NSYSMPSE12

Length of joined Spacial SF enclosures (mm)	Example of Spacial SF enclosure combination width (mm) (B)	Example of combining mounting plates by width (mm)	Useful length (mm)
1200	1200	600 + 800	1192
1400	600 + 800	600 + 1000	1392
1600	2 × 800	800 + 1000	1592
1800	3 × 600	800 + 1200	1792
2000	2 × 1000	1000 + 1200	1992
2200	600 + 2 × 800	1200 + 1200	2192
2400	3 × 800	1600 + 1000	2392
		3 × 600 + 1000	2384
2600	2 × 1000 + 600	1600 + 1200	2592
		3 × 600 + 1200	2584
2800	2 × 1000 + 800	4 × 800	2784
3000	3 × 1000	3 × 800 + 1000	2984
3200	2 × 1000 + 1200	3 × 800 + 1200	3184
3400	3 × 800 + 1000	800 + 3 × 1000	3384
3600	3 × 1200	4 × 1000	3584
3800	800 + 3 × 1000	600 + 3 × 1200	3784
4000	4 × 1000	800 + 3 × 1200	3984

7

Accessories

Mounting
Installation accessories

For ranges
SF

Kit for adapting two-door enclosures

- Allows the installation of two mounting plates as if in two independent enclosures.
- A set of brackets for fixing mounting plates ref. **NSYSMPB** is required for this.
- Option of installing an intermediate mounting plate.
- Valid for enclosures with widths of 1200 and 1600 mm.
- In the event of installing a cable-gland plate for a width of 1200 mm, it is necessary to install two with a width of 600 mm, and for widths of 1600 mm, two with a width of 800 mm.

Supply: two 90-mm cross rails, cable-gland plate support, 2 brackets for central fixing of the roof and fixing elements.
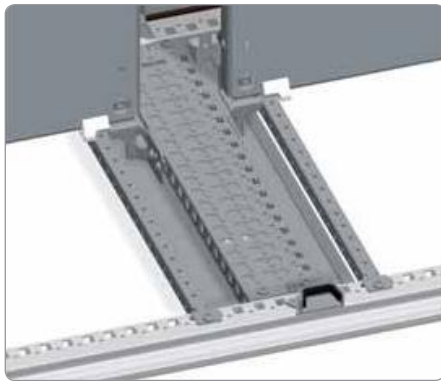
Nominal dimensions (mm)	Reference
Depth (C)	
400	**NSYSMP2D4**
500	**NSYSMP2D5**
600	**NSYSMP2D6**
800	**NSYSMP2D8**

7

Mounting
Installation accessories

Partial mounting plate

- Partial mounting plate, provided with reinforcement flange on its four sides.
- Fixing options:
– **Spacial SF, SFX:**
  - Fixing to the vertical uprights of the structure.
  - Fixing to the technical or standard vertical uprights, see page **7/23**.
  - For installations in advanced position, fixing to cross-rails, see page **7/36**.
– **Spacial SM:**
  - Fixing by means of adaptation profiles and 40-mm universal cross-rails (1 row) in vertical position, or also on horizontal universal cross-rails.
  - It can be mounted horizontally, as a tray, by means of depthwise cross rails, see page **7/36**.
- Material: galvanised steel.

Supply: partial mounting plate and fixing elements.

For ranges
SF

Nominal dimensions (mm) Width (B)	Plate height (mm) (H)	Plate length (mm) (B-100)	Reference
600	247	500	**NSYSPMP2560**
	247	750	**NSYSPMP2575**
	397	500	**NSYSPMP4060**
	597	500	**NSYSPMP6060**
800	247	700	**NSYSPMP2580**
	397	700	**NSYSPMP4080**
	597	700	**NSYSPMP6080**
1000	247	900	**NSYSPMP25100**
	397	900	**NSYSPMP40100**
	597	900	**NSYSPMP60100**
1200	247	1100	**NSYSPMP25120**
	397	1100	**NSYSPMP40120**
	597	1100	**NSYSPMP60120**
1600	397	1100	**NSYSPMP40160**

B-100

H

2.5
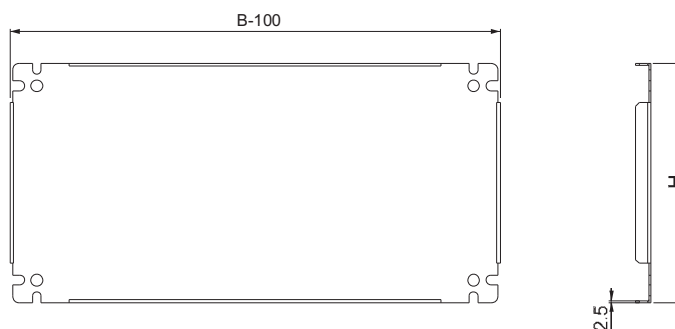
Self-tapping screw

- Self-tapping screw, hexagonal head, 4.8 $\times$ 16 mm thread.
- Drilling capacity: thicknesses between 1.75 and 4 mm.

Supply: 100 units.

To be ordered in multiples of 100 (100, 200, 300, etc.).

Reference
NSYS16M5HS

Schneider Electric

Accessories

Mounting
Installation accessories

For ranges
SM

Top/bottom adjustment rails

- Allows the installation of two mounting plates or vertical uprights in enclosures with a width of 1200 mm, as if in two independent enclosures.
- A set of mounting plate fixing brackets ref. **NSYSMPB** is required for this.
- Optional installation of an intermediate mounting plate.

Supply: 2 rails, top and bottom, and fixing elements.
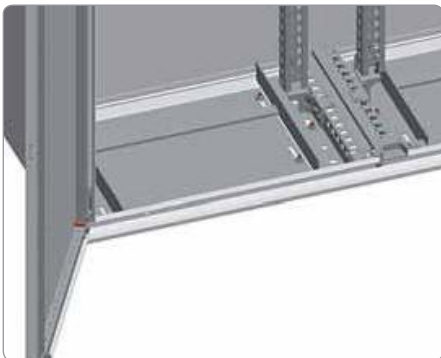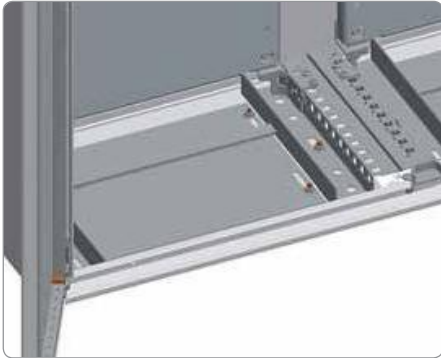
Nominal dimensions (mm)	Reference
Depth	
300	**NSYSTBR3**
400	**NSYSTBR4**
500	**NSYSTBR5**
600	**NSYSTBR6**

7

Mounting
Installation accessories

Examples of partial plate installation

● **Spacial SF, SFX:**

(1)** Plate mounted on structure.
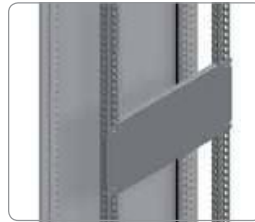
(2)* Plate mounted on technical vertical uprights.

(3)* Plate mounted on standard vertical uprights.

(4) Plate mounted on cross rails.
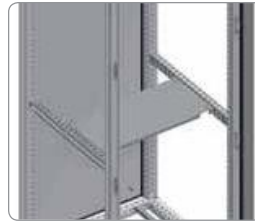
(5) Plate mounted on cross rails, horizontal fixing.

* Fixings not supplied.
** Not possible in enclosures Spacial SFX.

● **Spacial SM, SMX:**

(1)* Plate mounted on technical vertical uprights.

(2)* Plate mounted on standard vertical uprights.

(3)* ** Plate mounted on cross rails.

* Fixings not supplied.
** Not possible in enclosures Spacial SMX.

7

Schneider Electric

Mounting
Installation accessories

Standard uprights
- Vertical uprights for fixing plates and rails.
- They can be fixed on the mounting plate fixing brackets or on the upright fixing bracket, ref. **NSYMFB**.
- Adjustable height with a pitch of 25 or 50 mm.
- Material: galvanised steel.
- Thickness: 2 mm.

Supply: two standard vertical uprights.

Nominal dimensions (mm)	Reference
Height (A)	Standards
1800	NSYVR18
2000	NSYVR20
2200	NSYVR22
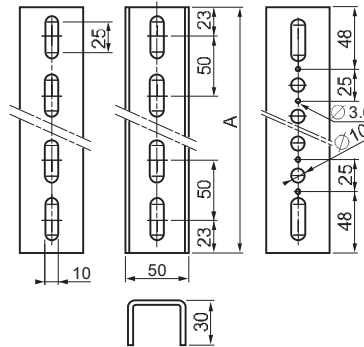
Nuts and screws for standard uprights
- Flat nut for standard uprights.
- Hexagonal screw with washer.

Nuts and screws for standard vertical upright	Supply (units)	Reference
M6 flat nut	50	NSYFNM6
M8 flat nut	50	NSYFNM8
M6 × 12 screw	100	NSYS12M6H
M6 × 16 screw	100	NSYS16M6H
M6 × 18 screw	100	NSYS18M6H
M8 × 16 screw	100	NSYS16M8H
M8 × 20 screw (1)	100	NSYS20M8H

(1) Screw without captive washer.

Reference by unit. Order by multiples of 50 (Flat nuts) and 100 (Screws).

7

Mounting
Installation accessories

Technical uprights

- Vertical uprights for fixing plates and rails.
- They can be fixed to the fixing brackets of the mounting plate or to the upright-fixing bracket (ref. **NSYMFB**).
- Adjustable height in steps of 2.5 mm (with quarter-turn nuts, ref. **NSYSNM6** or **NSYSNM8**) or 25 mm (with cage nuts, ref. **NSYCNFM6** or **NSYCNFM8**).
- Material: zinc-coated steel.
- Thickness: 2 mm.

Supply: 2 standard uprights.

For ranges
SF, SM, SFX, SMX, SD, SDX, PLA

Enclosure height	A	Reference
750	625	NSYTVR7
1000*	675	NSYTVR8
1000	875	NSYTVR10
1200	1075	NSYTVR12
1250	1125	NSYTVR125
1400	1275	NSYTVR14
1500	1375	NSYTVR15
1600	1475	NSYTVR16
1800	1675	NSYTVR18
2000	1875	NSYTVR20
2200	2075	NSYTVR22

* Control desk.

Nuts and screws for technical uprights

- Clip-on quarter-turn sliding nuts.
- Hexagonal screw with washer.

Nuts and screws for technical vertical upright	Supply (units)	Reference
M6 quarter-turn sliding nut (1)	10	NSYSNM6
M8 quarter-turn sliding nut (1)	10	NSYSNM8
M6 quarter-turn serrated sliding nut (2)	10	NSYSNSM6
M8 quarter-turn serrated sliding nut (2)	10	NSYSNSM8
M6 $\times$ 12 screw	100	NSYS12M6H
M6 $\times$ 16 screw	100	NSYS16M6H
M6 $\times$ 18 screw	100	NSYS18M6H
M8 $\times$ 16 screw	100	NSYS16M8H
M8 $\times$ 20 screw	100	NSYS20M8H

- The nuts are intended for installation in the 13 $\times$ 11 mm holes of the structure, the technical uprights and the cross-rails, every 25 mm.

Supply: 50 units.

Cage nut
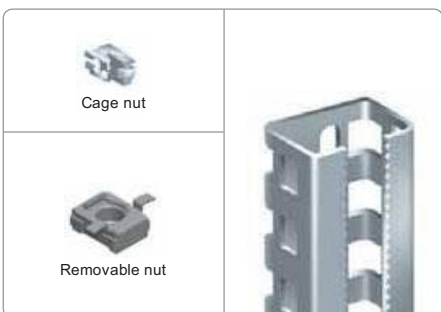
Removable nut

Nuts for technical upright	Reference
M6 cage nut	NSYCNFM6
M8 cage nut	NSYCNFM8
M6 removable nut	NSYCNM6
M8 removable nut	NSYCNM8

Accessories

Mounting
Installation accessories
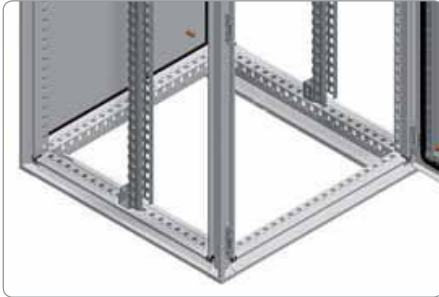
Bracket for fixing uprights

● Brackets for fixing the uprights, standard or technical, at the same level as the structure, obtaining a greater working surface inside the enclosure.
● They allow two pairs of uprights to be fixed back to back, doubling the working surface.
● The brackets are fixed to the structure by means of M6 self-tapping screws.
● Adjustable depth with a pitch of 25 mm.
● Material: zinc-coated steel.

Supply: four brackets for fixing uprights and fixing elements.

Reference
NSYMFB

Mounting
Installation accessories

Telequick partial mounting plate

- Allows the installation of switchgear without drilling or screwing.
- Plate designed for quick fixing of switchgear by means of the clip-on nuts, ref. **NSYKNM3** to **NSYKNM6**. See page **7/27**.
- Fixing options:
– Directly to the vertical uprights of the structure, by means of self-tapping screws (only Spacial SF).
– To the vertical equipment uprights, by means of sliding nuts, page **7/24**; to standard uprights by means of flat nuts, page **7/23** or self-tapping screws, and to mounting cross-rails.
- Vertical continuity is guaranteed by vertical mounting of plates.
- The top plate must be fixed in the third hole, 80 mm from the top frame.
- Material: zinc-coated steel.

Supply: 1 telequick partial mounting plate and fixing elements.
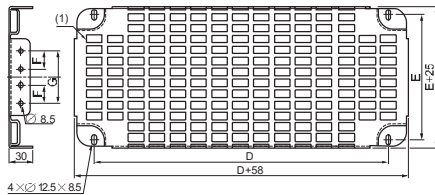
(1) 11 × 26 perforations in steps of 15 × 30.

For ranges
SF, SM, SFX, SMX

Nominal dimensions (mm)	Plate height (mm)				Usable surface (dm²)	Reference
Width (B)	D	E	F	G		
600	450	200	-	100	11.4	NSYSTMP2260
	450	425	-	325	22.8	NSYSTMP4560
	450	575	125	475	30.4	NSYSTMP6060
	450	800	250	700	41.9	NSYSTMP8260
800	650	200	-	100	15.9	NSYSTMP2280
	650	425	-	325	31.8	NSYSTMP4580
	650	575	125	475	42.4	NSYSTMP6080
	650	800	250	700	58.4	NSYSTMP8280
1000	850	200	-	100	20.4	NSYSTMP22100
	850	425	-	325	40.8	NSYSTMP45100
	850	575	125	475	54.4	NSYSTMP60100
	850	800	250	700	74.9	NSYSTMP82100
1200	1050	200	-	100	24.9	NSYSTMP22120
	1050	425	-	325	49.9	NSYSTMP45120
	1050	575	125	475	66.5	NSYSTMP60120
	1050	800	250	700	91.5	NSYSTMP82120
1600	Order two 800-mm plates					

Examples of installation on Spacial SF
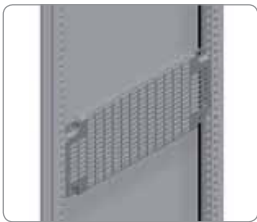
(1) Perforated mounting plate on structure.

(2) Perforated mounting plate fixed on technical uprights.
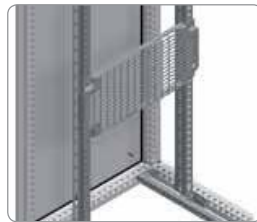
(3) Perforated mounting plate on standard uprights.

(4) Perforated mounting plate fixed on cross-rails.

See also
the accessories

Fixings and nuts
page **7/67**

Mounting
Installation accessories

Clip-on nuts

- Clip-on nuts for Telequick mounting plate.
- Used for fixing switchgear.

Supply: 100 units.

References per unit. To be ordered in multiples of 100 (100, 200, 300, etc.).

Type	Reference
M3	**NSYKNM3**
M4	**NSYKNM4**
M5	**NSYKNM5**
M6	**NSYKNM6**

**See also
the accessories**

Plastic cable support
ref. **NSYSPC**
page **7/122**

Lyre-shaped clamp for plate
ref. **NSYGCR**
page **7/123**

Mounting
Installation accessories

Rail support bracket

- Bracket for fixing rails at an angle of 45°.
- **Spacial SF:** mounted on the structure and/or mounting plates.
- **Spacial SM:** mounted on the bottom mounting rail and/or mounting plates.
- Material: zinc-coated steel.

Supply: ten units and fixing elements.

Reference by unit. Order by multiples of 10 (10, 20, 30...).

Reference
NSYFB45
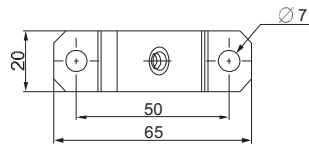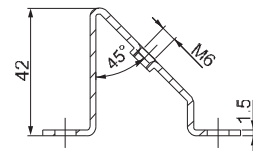
Terminal-block support bracket

- Tilted to 45°.
- Material: treated steel.

Composition: 2 lugs and fixings

Reference
NSYEDCO

Mounting
Installation accessories
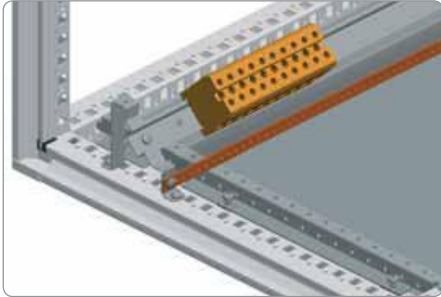
Combined support bracket

- Allow the installation of a DIN rail and an earthing strip on different planes, to minimise the cable radiuses.
- **Spacial SF** installation: directly on the structure and/or using mounting plates.
- **Spacial SM** installation: on the bottom adjustment rails and/or on mounting plates.
- Material: zinc-coated steel.

Supply: ten combined support brackets and fixing elements.

Reference by unit. Order by multiples of 10 (10, 20, 30...).
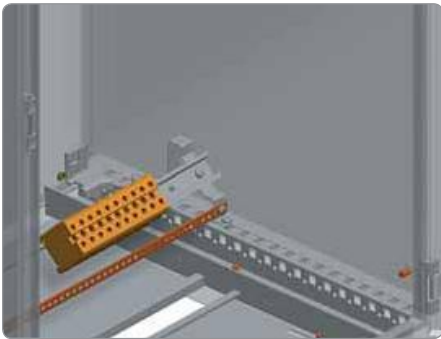
Reference
NSYETF
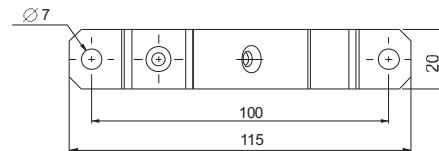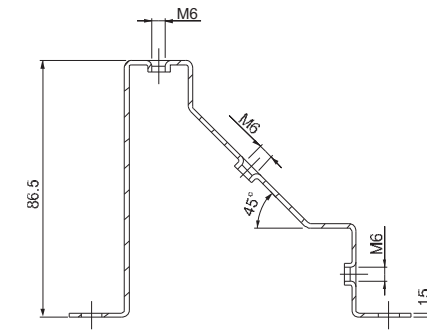
Combined fixing lugs for the earthing strip

- They allow the mounting of an earth-collector rail at the bottom of the enclosure and a DIN rail.
- Tilted to 30°.
- Earthing strip, ref. **NSYECB1M153**. See page **7/140**.

Composition: 2 fixing lugs and fixing elements.

Reference
NSYEDCOC

7

Mounting
Installation accessories

Door cross rails

- Direct mounting cross rails on the profiles of the reinforcement frame of the door.
- Adjustable height with a pitch of 25 mm.
- Material: galvanised steel.
- Thickness: 2 mm.

Supply: two cross rails and bag of fixings.

Nominal dimensions (mm)	Reference
Width (B)	
400	NSYSDCR4
500	NSYSDCR5
600	NSYSDCR6
800	NSYSDCR8
1000	NSYSDCR10

For ranges
SF, SM, SFX, SMX

B-150

18

25   ∅ 5.2

B-200
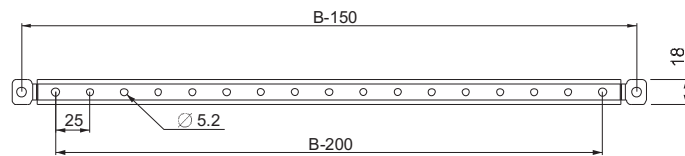
Mounting

Combination examples

In the **Spacial SF**, **SM**, **SFX** and **SMX** enclosures, it is possible to create a fixing at any point of the inner volume, providing mounting planes with different widths, heights and depths.

In the case of the **Spacial SM**, it may be necessary to install vertical/horizontal adaptation profiles and 40-mm universal cross rails (1 row).

For the formation of structures inside the enclosure, it is possible to combine three types of cross rails:
– Universal cross rails of 40 (1 row), 65 (2 rows) and 90 mm (3 rows).
– Quick-fixing cross rails of 40 (1 row), 65 (2 rows) and 90 mm (3 rows).
– Light cross rails.
– Mounting plate sliding rails, see page **7/14**.
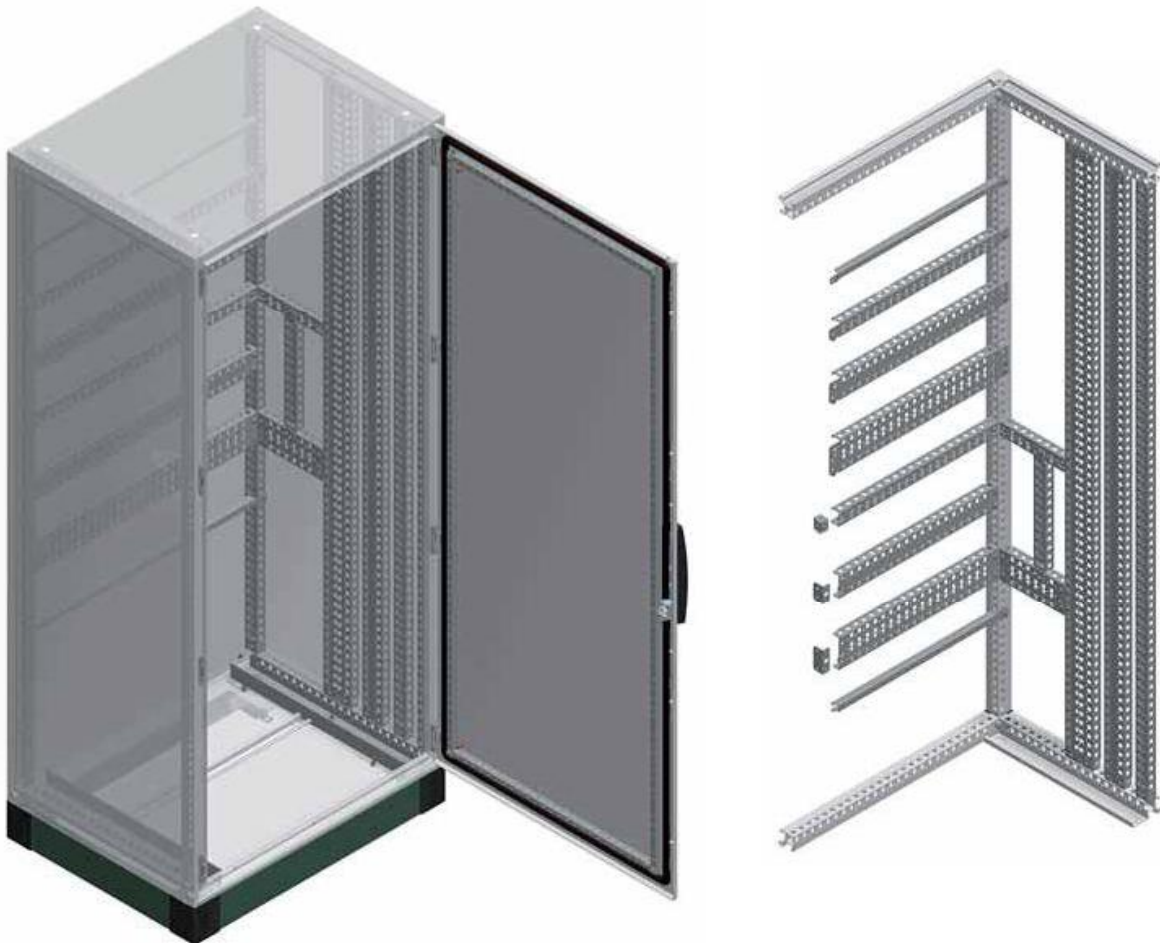
Mounting
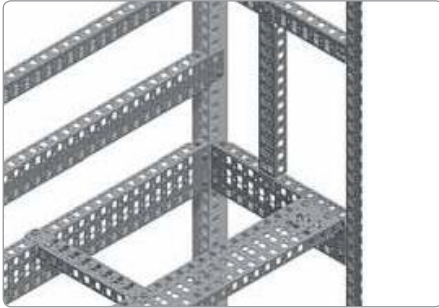
Spacial SF and SFX: the cross rails can be fixed to the structure and among each other, offering multiple possibilities.
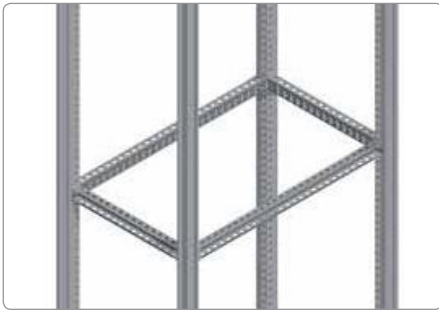
The universal cross rails allow installations at the same level, around the entire perimeter of the enclosure.
To perform this type of installation in a **Spacial SM** enclosure, the vertical adaptation profile and the vertical 40-mm universal cross rail (1 row) are required, mounted in the back of the enclosure.

7
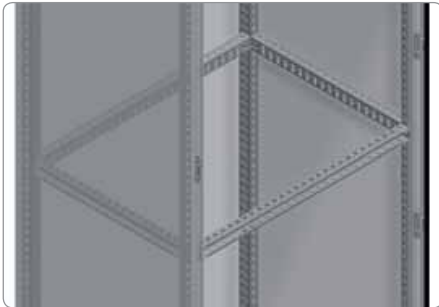
Spacial SF: the universal cross rails can be installed in vertical position.

Schneider Electric

Accessories

Mounting
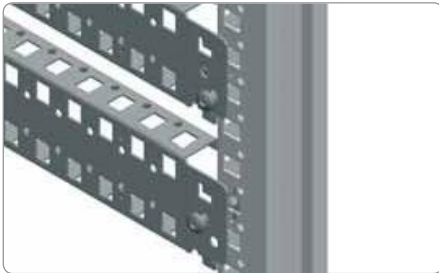
The quick-fixing cross rails can be fixed directly to the structure, quickly and easily.

● **Spacial SF and SFX*:**
– They clip onto the structure and are fixed by M6 self-tapping screws, or optionally with M6 caged nuts.

● **Spacial SM:**
– Possibility of clipping onto the adaptation profile or another cross rail.
– Fixing by means of M6 self-tapping screws.
– Fixing by means of M6 caged nuts.

* In enclosures Spacial SFX is not possible to mount it in depth.

The quick-fixing cross rails can be used as a support for equipment in the back of the enclosure or offset with a pitch of 25 mm, using two universal cross rails in vertical position.
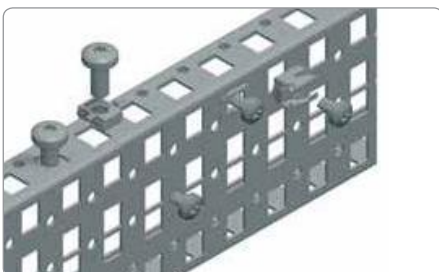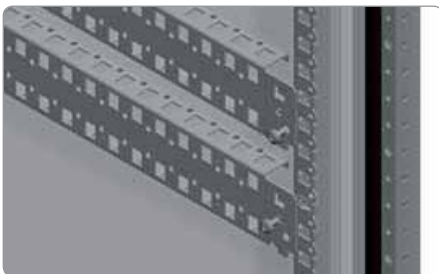
The main fixing point to the quick-fixing cross rails is the 5.2 mm drill hole for M6 self-tapping screw, although they can also receive M6 and M8 caged nuts.

Mounting
Installation accessories
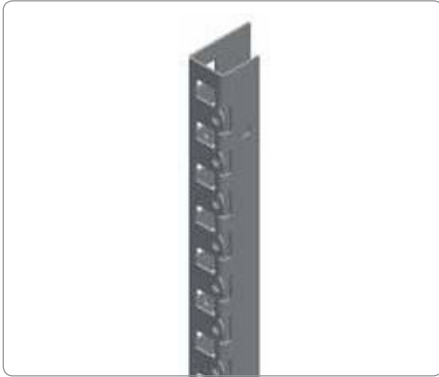
Vertical adaptation profiles

- The vertical adaptation profiles provide fixing points at the entrance to the enclosure.
- Fixing on the screws of the hinge and catches of the lock.
- Allows the depthwise fixing of cross rails, etc.
- Material: steel.
- Thickness: 1.5 mm.
- Finish: zinc-coated.

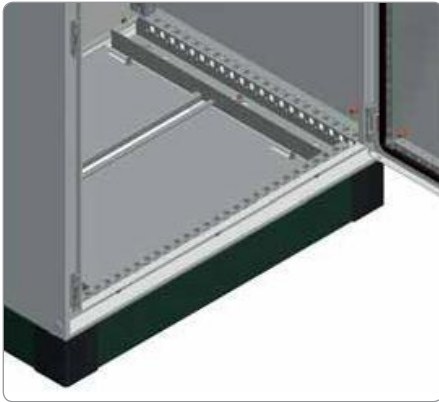Supply: 2 vertical adaptation profiles and fixing screws.

Nominal height (mm) (A)	Reference
1200	NSYSMVR12
1400	NSYSMVR14
1600	NSYSMVR16
1800	NSYSMVR18
2000	NSYSMVR20

For ranges
SM

Schneider Electric
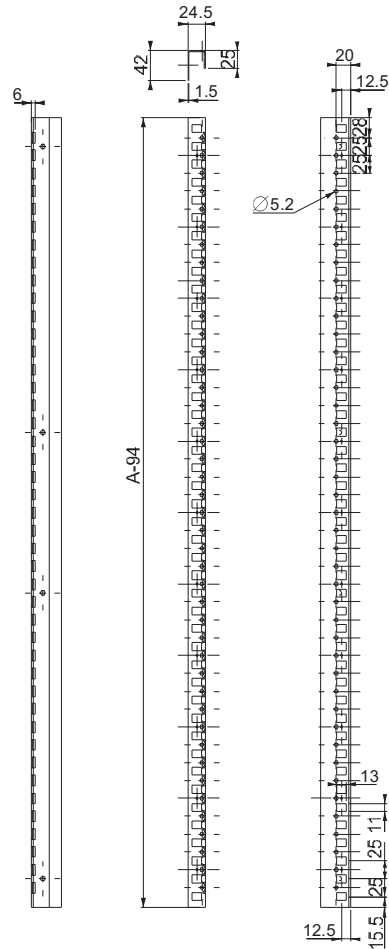
Mounting
Installation accessories

Horizontal adaptation profiles

- The horizontal adaptation profiles provide fixing points at the entrance to the enclosure.
- Material: steel.
- Thickness: 1.5 mm.
- Finish: zinc-coated.

Supply: 2 horizontal adaptation profiles and fixing screws.

Nominal width (mm) (B)	Reference
600	**NSYSMHR6**
800	**NSYSMHR8**
1000	**NSYSMHR10**
1200	**NSYSMHR12**
1600	**NSYSMHR16**

For ranges
SM

Schneider Electric
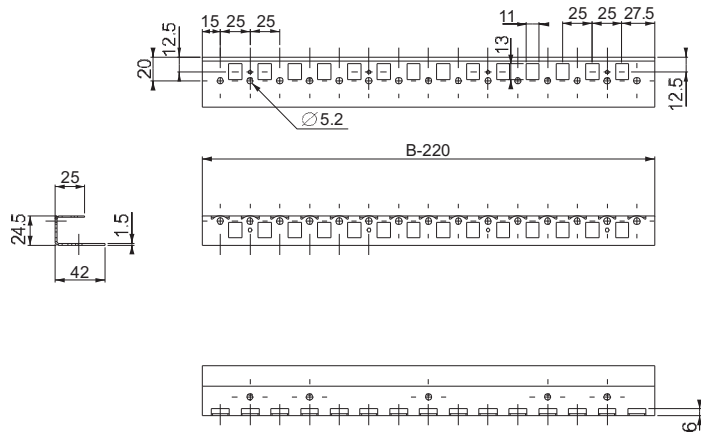
Mounting

Universal cross rails

- Various versions available, according to the width: 40 (1 row), 65 (2 rows) and 90 mm (3 rows), perforated with a pitch of 25 mm for the formation of structures inside the enclosure.
- They allow the performance of any type of assembly, as well as the adjustment of the depth of the various types of installation systems (partial plates, 19" racks, etc.).
- Material: zinc-coated steel.
- Thickness: 1.5 mm.

Supply: two universal cross rails, four supports for universal cross rails and fixing elements.

For ranges
SF, SM, SFX, SMX
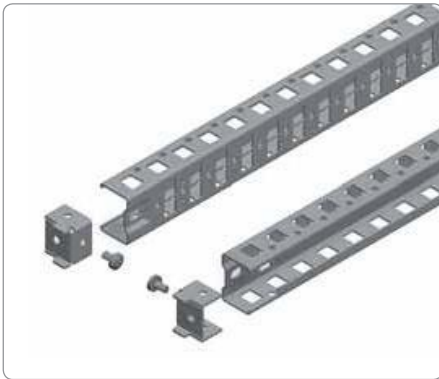
Nominal dimensions	Maximum load	Reference
Height/Width/Depth (mm)	(kg) by rail	40 mm (1 row)
300	70	NSYSUCR4030
400	60	NSYSUCR4040
500	60	NSYSUCR4050
600	50	NSYSUCR4060
800	40	NSYSUCR4080
1000	30	NSYSUCR40100
1200	20	NSYSUCR40120
1400	(1)	NSYSUCR40140
1600	(1)	NSYSUCR40160
1800	(1)	NSYSUCR40180
2000	(1)	NSYSUCR40200
2200	(1)	NSYSUCR40220

(1) For vertical assembly only.
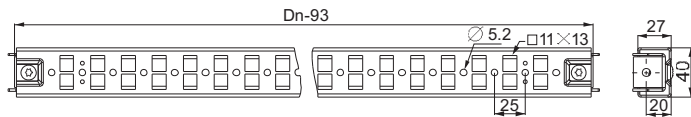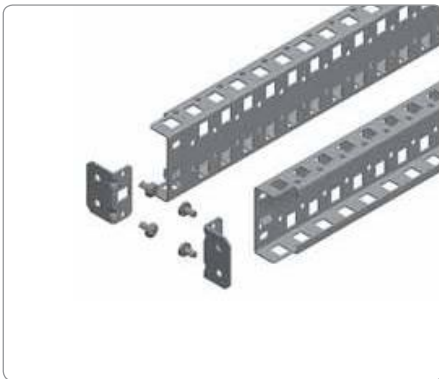
Dn-93   ∅ 5.2   □11✕13   27   40   25   20

Nominal dimensions	Maximum load	Reference
Height/Width/Depth (mm)	(kg) by rail	65 mm (2 rows)
300	110	NSYSUCR6530
400	100	NSYSUCR6540
500	90	NSYSUCR6550
600	80	NSYSUCR6560
800	70	NSYSUCR6580
1000	50	NSYSUCR65100
1200	50	NSYSUCR65120
1400	(1)	NSYSUCR65140
1600	(1)	NSYSUCR65160
1800	(1)	NSYSUCR65180
2000	(1)	NSYSUCR65200
2200	(1)	NSYSUCR65220

(1) For vertical assembly only.

Dn-93   ∅ 5.2   □11✕13   27   25   65   25   20
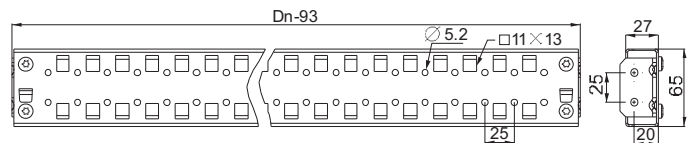
> Advantage:

The universal cross rails allow any type of installation to be performed.

7

Mounting
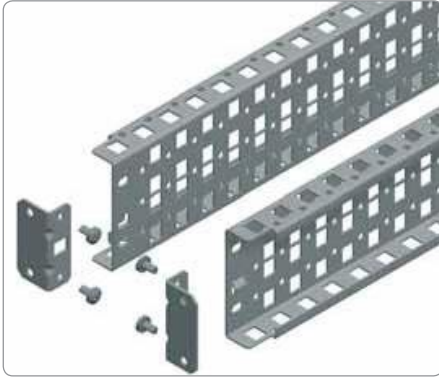
Nominal dimensions	Maximum load	Reference
Height/Width/Depth (mm)	(kg) by rail	90 mm (3 rows)
300	130	NSYSUCR9030
400	120	NSYSUCR9040
500	120	NSYSUCR9050
600	110	NSYSUCR9060
800	100	NSYSUCR9080
1000	70	NSYSUCR90100
1200	70	NSYSUCR90120
1400	(1)	NSYSUCR90140
1600	(1)	NSYSUCR90160
1800	(1)	NSYSUCR90180
2000	(1)	NSYSUCR90200
2200	(1)	NSYSUCR90220

(1) For vertical assembly only.

For ranges
SF, SM, SFX,
SMX

Dn-93   Ø 5.2   ☐ 11 × 13   27   50   90   25   20
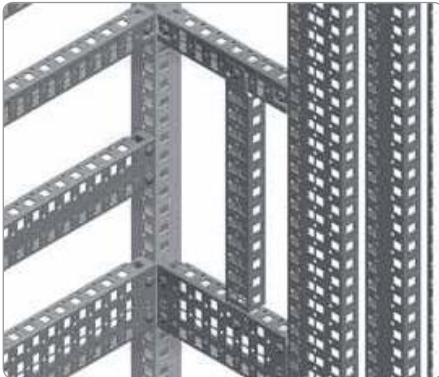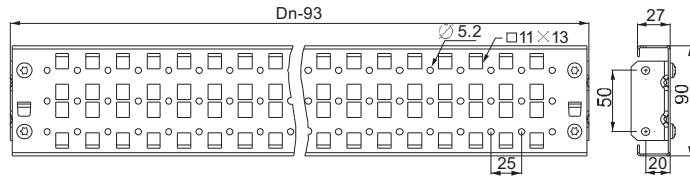
Other dimensions

● Other dimensions of universal cross rails of 40 (1 row) and 90 mm (3 rows) for assembly in other positions, and between cross rails.
● Material: zinc-coated steel.
● Thickness: 1.5 mm.

Supply: two universal cross rails, four supports for universal cross rails and fixing elements.

Nominal dimensions	Maximum load	Reference	Maximum load	Reference
Height/Width/Depth (mm)	(kg) (1)	40 mm (1 row)	(kg) by rail	90 mm (3 rows)
700	50	NSYSUCR4070	110	NSYSUCR9070
900	40	NSYSUCR4090	100	NSYSUCR9090
1100	30	NSYSUCR40110	70	NSYSUCR90110
1500	(1)	NSYSUCR40150	(1)	NSYSUCR90150

(1) Cross rails only for fixing cables.

7

# Mounting

Quick-fixing cross rails

● There are 3 models, according to width: 40 mm (1 row), 65 mm (2 rows) and 90 mm (3 rows), perforated with a pitch of 25 mm ($\varnothing$ 5.2 mm).
● Adjustable with a pitch of 25 mm.
● **Spacial SF:** they are fixed directly to the structure, quickly and safely. Clip-on plus screwing.
● **Spacial SM:** cross rails for depthwise fixing by means of adaptation profiles and 40 mm universal cross rails (1 row), or between cross rails in any other position.
● Material: zinc-coated steel.

Supply: two quick-fixing cross rails and fixing elements.

For ranges
SF, SM, SFX, SMX
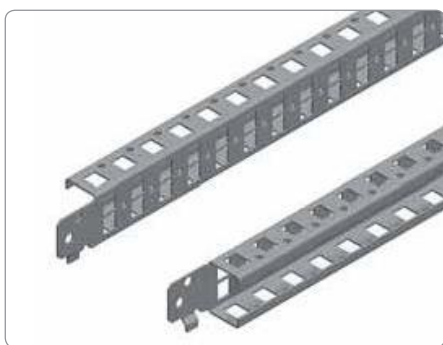
Nominal dimensions	Maximum load	Reference
Height/Width/Depth	(kg) by rail	40 mm (1 row)
400	60	NSYSQCR4040
500	60	NSYSQCR4050
600	50	NSYSQCR4060
800	40	NSYSQCR4080
1000	30	NSYSQCR40100
1200	20	NSYSQCR40120
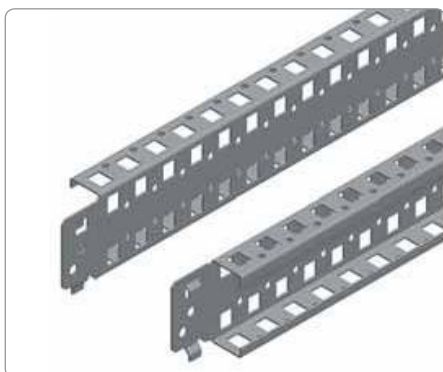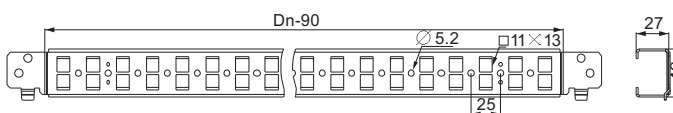
Nominal dimensions	Maximum load	Reference
Height/Width/Depth	(kg) by rail	65 mm (2 rows)
400	100	NSYSQCR6540
500	90	NSYSQCR6550
600	80	NSYSQCR6560
800	70	NSYSQCR6580
1000	50	NSYSQCR65100
1200	50	NSYSQCR65120
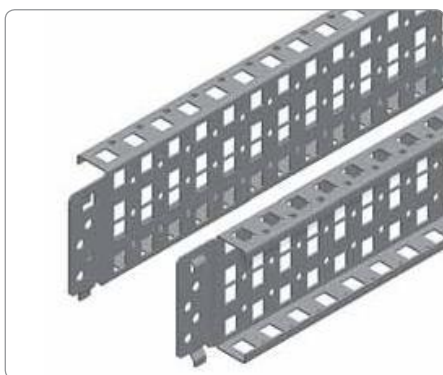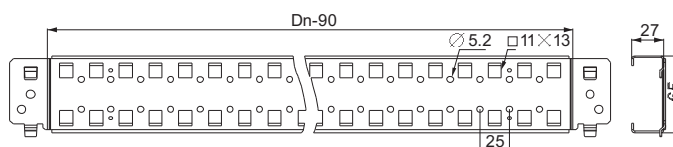
| Nominal dimensions	Maximum load	Reference
Height/Width/Depth	(kg) by rail	90 mm (3 rows)
400	120	NSYSQCR9040
500	120	NSYSQCR9050
600	110	NSYSQCR9060
800	100	NSYSQCR9080
1000	70	NSYSQCR90100
1200	70	NSYSQCR90120
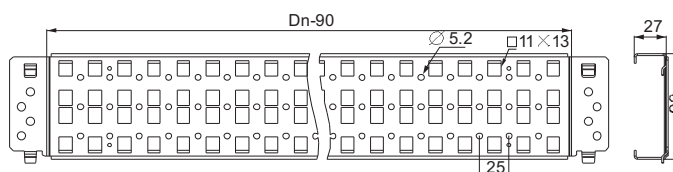
Mounting
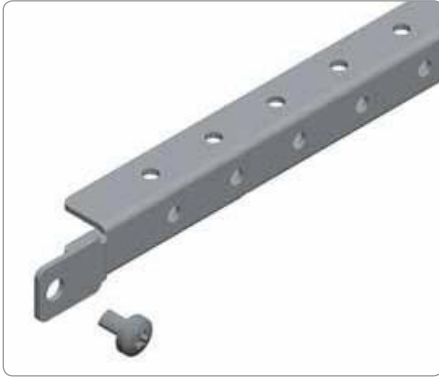
Light cross rails

- **Spacial SF and SFX:** direct fixing to the structure or between cross rails.
- **Spacial SM:** fixing by means of adaptation profiles and 40-mm universal cross rails (1 row), or between cross rails in any other position.
- Adjustable with a pitch of 25 mm.
- The light cross rails are equipped with a row of drill holes with a diameter of 5.2 mm and a pitch of 25 mm, which allows fixing with an M6 self-tapping screw, ref. **NSYST30M6S**.
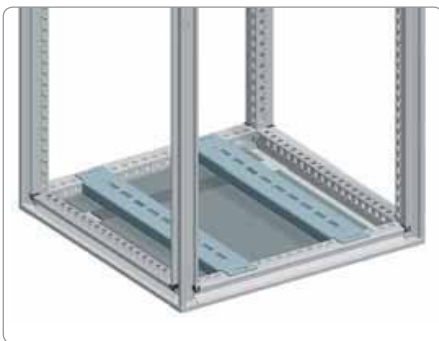- Material: zinc-coated steel.

Supply: two light cross rails and fixing elements.

Nominal dimensions	Reference
Width/Depth	
400	**NSYSLCR40**
500	**NSYSLCR50**
600	**NSYSLCR60**
800	**NSYSLCR80**

Dn-90   ⌀ 5.2   18.6   25
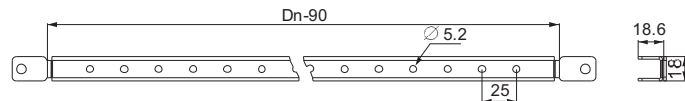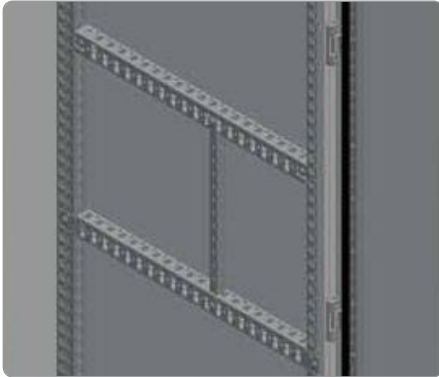
For ranges
SF, SFX, SM

Rails for heavy loads

- They can be mounted with a cable-gland plate or with a previously mounted mounting plate.
- Laterally adjustable with a pitch of 25 mm.
- Elongated holes, for adjusting the centre-to-centre distance of the switchgear.
- Material: galvanised steel.
- Thickness: 4 mm.

Supply: 2 rails for heavy loads and fixing elements.

Nominal dimensions (mm)	Maximum load (kg)	Reference
Depth		
400	575	**NSYHLCR40**
500	525	**NSYHLCR50**
600	500	**NSYHLCR60**
800	475	**NSYHLCR80**

For ranges
SF

7

Mounting

Fixing elements

- **Caged nuts:** they are installed in the rectangular cut-outs of the structure and the cross rails.
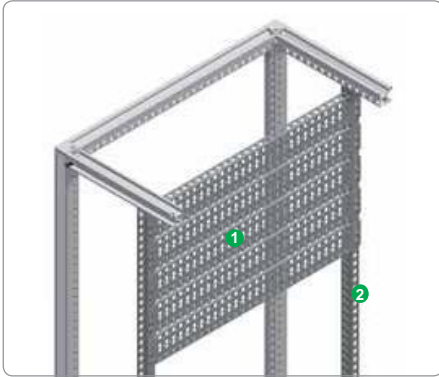- **Removable nuts:** they are installed in the rectangular cut-outs of the structure and the cross rails, easy to extract and reuse.
- **Screw with washer:** they make assembly easier in difficult-access locations.
- **Metric Torx screw:** to fix on the caged and/or removable nuts.
- **Torx self-tapping screw:** to fix on the structure or on the cross rails.

Fixing element		Supply (units)	Reference
	M6 caged nut	50	**NSYCNFM6**
	M8 caged nut	50	**NSYCNFM8**
	M6 removable nut	50	**NSYCNM6**
	M8 removable nut	50	**NSYCNM8**
	M6 $\times$ 12 mm	100	**NSYS12M6H**
	M6 $\times$ 16 mm	100	**NSYS16M6H**
	M6 $\times$ 18 mm	100	**NSYS18M6H**
	M8 $\times$ 16 mm	100	**NSYS16M8H**
	M8 $\times$ 20 mm	100	**NSYS20M8H**
	Torx T30 M6 $\times$ 16 mm screw (1)	100	**NSYST30M6**
	Torx T40 M8 $\times$ 16 mm screw (1)	100	**NSYST40M8**
	Torx T30 M6 $\times$ 12 mm self-tapping screw (1)	100	**NSYST30M6S**

(1) Screw without washer.

Reference by unit. Order by multiples of 50 (nuts) or 100 (screws).

Accessories

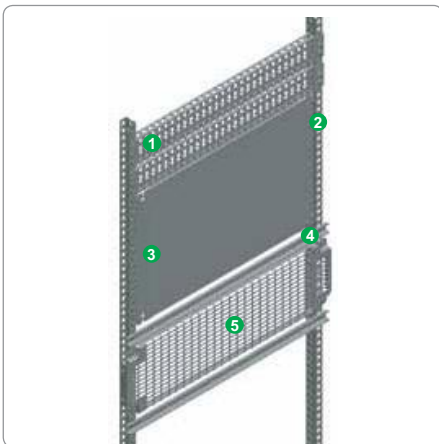# Mounting
Installation examples

Modular universal chassis

Alternative of assembly with cross rails and accessories (enclosure width 600 mm)

● The 40-mm universal cross rails (1 row) used as depth-adjustable uprights with a pitch of 25 mm allow the installation of a multitude of supports for installing switchgear, allowing their height to be adjusted with a pitch of 25 mm.

● The modular universal chassis system allows modular and non-modular elements to be installed easily on the same plane, using DIN rails, partial plates and 90-mm cross rails (3 rows) used as pre-perforated plates.

7

Mounting
Installation examples

● It provides two working surfaces, front and rear, in enclosures with front and rear access.

❶ 90-mm quick-fixing cross rails (3 rows), page **7/38**.
❷ 40-mm universal cross rails (1 row), page **7/36**.
❸ Partial mounting plate, page **7/20**.
❹ Symmetric DIN rail, page **7/50**.
❺ "Telequick" perforated mounting plate, page **7/26**.
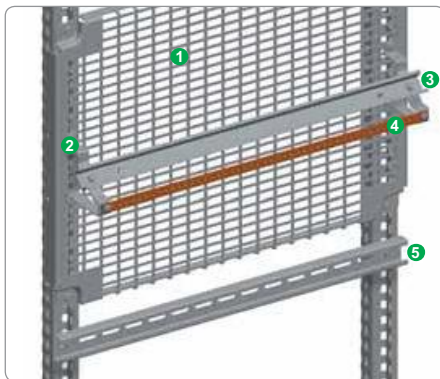
Alternative of assembly with mounting uprights and accessories (enclosure width 600 mm)

● The installation of uprights on the mounting plate brackets allows the creation of chassis with perforated rails and plates, adjustable with a pitch of 2.5 mm, using quarter-turn nuts.

❶ Perforated mounting plate "telequick", page **7/26**.
❷ Combined support brackets for earthing bar, page **7/29**.
❸ Symmetric DIN rail, page **7/50**.
❹ Earthing bar, page **7/139**.
❺ Symmetric C-shaped rail, page **7/56**.

7

Schneider Electric
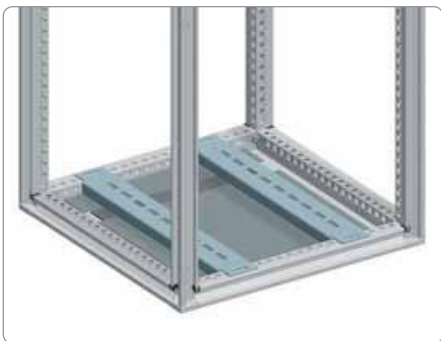
Mounting
Equipment support accessories

System for supporting heavy loads
- System designed for assembling various devices, especially transformers, at the bottom of the enclosure, allowing the passage of cables.
- They are mounted directly on the bottom frame of the enclosure.
- Material:
– C-shaped rails: zinc-coated steel.
– T-head screws (M12): galvanised steel.

Supply: two C-shaped rails, four T-head screws, four washers, four nuts and elements for fixing to the enclosure.

Nominal dimensions (mm)	Reference
Width	
600	NSYRSUP6
800	NSYRSUP8
1000	NSYRSUP10
1200	NSYRSUP12

Rails for heavy loads
- They can be mounted with a cable-gland plate or with a previously mounted mounting plate.
- Laterally adjustable with a pitch of 25 mm.
- Elongated holes, for adjusting the centre-to-centre distance of the switchgear.
- Material: galvanised steel.
- Thickness: 4 mm.

Supply: 2 rails for heavy loads and fixing elements.

Nominal dimensions (mm)	Maximum load (kg)	Reference
Depth		
400	575	NSYHLCR40
500	525	NSYHLCR50
600	500	NSYHLCR60
800	475	NSYHLCR80

7

Mounting
Equipment support accessories

Tray installed on the structure.

Fixed tray

● Options for fixing the tray to the enclosure:
– If the tray has the same dimensions as the enclosure:
  • **Spacial SF:** direct fixing to the structure.
  • **Spacial SFX:** instalation possible only with universal cross rails, see on page **7/36**.
  • **Spacial SM:** fixing by means of adaptation profiles and 40-mm universal cross rails (1 row) in vertical position.
– If the tray is smaller than the dimensions of the enclosure: fixing on depth cross rails.
  • Depth-adjustable tray with a pitch of 25 mm.
● Provided with cut-outs for improving air circulation inside.
● Material: steel.
● Finish: painted with epoxy-polyester resin, RAL-7035 grey.
● Acceptable load: 150 kg, evenly distributed.
● Tray height: 30 mm.

 Supply: one fixed tray and fixing elements.

Nominal dimensions (mm)		Tray Dimensions (mm)	Reference
Width	Depth		
600	400	482 × 290 × 30	NSYFXT6040
	500	482 × 390 × 30	NSYFXT6050
	600	482 × 490 × 30	NSYFXT6060
800	400	682 × 290 × 30	NSYFXT8040
	500	682 × 390 × 30	NSYFXT8050
	600	682 × 490 × 30	NSYFXT8060

Tray installed on cross rails.

> Advantage:
Withstands loads of up to 150 kg.

7

Schneider Electric

Accessories

Mounting
Equipment support accessories

Telescopic rails fixed to the structure.

Telescopic rails fixed to cross rails.

Telescopic rails

- **Spacial SF:** installation directly on the structure of the enclosure or on universal cross rails.
- **Spacial SFX:** Instalation possible only with universal cross rails, see on page **7/36**.
- **Spacial SM:** installation by means of adaptation profiles and 40-mm universal cross rails (1 row) in vertical position, or on horizontal universal cross rails.
- The installation of a telescopic tray consists of the following:
– 1 fixed tray.
– 2 telescopic rails.
- End-of-travel stop of the rails in open and closed position.
- Material: zinc-coated steel.
- Acceptable load: 50 kg evenly distributed.

Supply: two telescopic rails and fixing elements.

Nominal dimensions (mm)	Reference
Depth	
400	**NSYTTG40**
500	**NSYTTG50**
600	**NSYTTG60**

Mounting
Equipment support accessories

Tray cross rails

● The cross rails allow the installation of fixed trays and telescopic rails. Quick and universal cross rails, see page **7/36**.

Nominal dimensions (mm)	Universal cross rail reference	Quick-fixing cross rail reference
Depth	**40 mm (1 row)**	**40 mm (1 row)**
400	**NSYSUCR4040**	**NSYSQCR4040**
500	**NSYSUCR4050**	**NSYSQCR4050**
600	**NSYSUCR4060**	**NSYSQCR4060**
800	**NSYSUCR4080**	**NSYSQCR4080**

Handle for telescopic trays

● Handle designed for easy extraction of the sliding trays.
● Material: polyamide 6 (black).
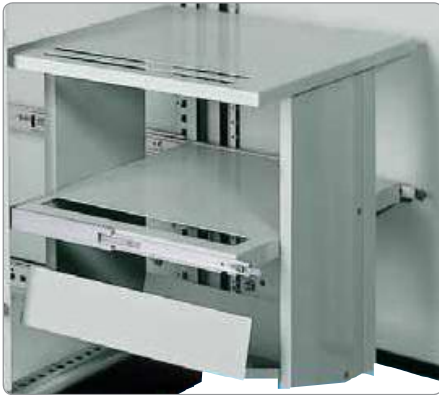
Supply: two units and fixing elements.

Reference
NSY1TH

Mounting
Equipment support accessories

Printer support
- Support for placing an A4 printer, with area reserved for paper.
- It is fixed directly to the structure of the enclosure, with a depth of 600 mm. For a depth of 800 mm, it can be installed with universal or quick 40-mm (1 row) cross rails (ref. **NSYSUCR4080** or **NSYSQCR4080**).
- Material: steel.
- Finish: painted RAL-7035 grey.

Supply: printer support and fixing elements.

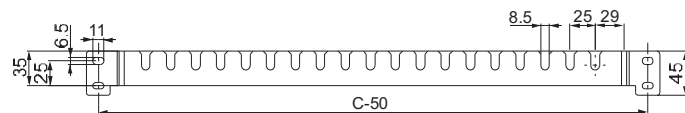| Reference |
|-----------|
| **NSYPSA4** |

For ranges
SF

Cross rail for Lütze chassis
- Cross rail for fixing and adjusting the depth of the Lütze chassis.
- Material: galvanised steel.
- Thickness: 2.5 mm.

Supply: 6 cross rails for Lütze chassis and fixing elements.

Nominal dimensions (mm)	Reference
Depth (C)	
400	**NSYLCR40**
500	**NSYLCR50**
600	**NSYLCR60**

7

Mounting
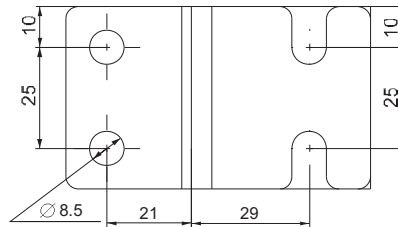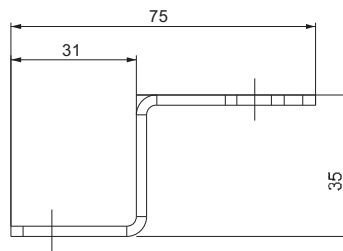## Equipment support accessories

For ranges
SF

Support for Lütze chassis
● Support for installing Lütze chassis in the back of the enclosure.
● Material: galvanised steel.
● Thickness: 2.5 mm.

Supply: 6 supports and fixing elements.

Reference
NSYLSUP

75
31
35

10
25
10
25
∅ 8.5   21   29

7

Accessories

7

Mounting
Rails

Symmetric DIN rails

Symmetric DIN rails for the metal enclosure range

- Fixed to the standard or technical uprights, not included in the supply, or directly to the structure.
- Ensure horizontal continuity in case of enclosure assembly.
- Rail type:
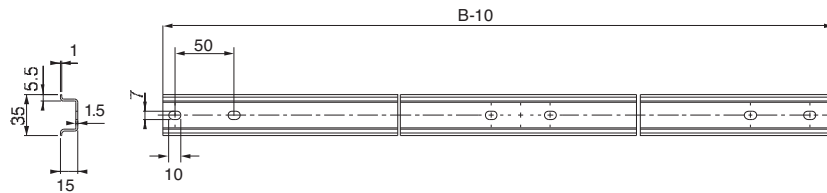– Type A: 35 × 15 mm, thickness 1.5 mm.
- Material: zinc-coated steel.

Supply: 20 rails and fixings for direct assembling to the structure.

References per unit. Please place orders in multiples of 20 units (20, 40, etc.).

For ranges
SF, SM, SFX, SMX, SD

Dimensions (mm) (B)	Rail length (mm) (B-10)	Reference
600	590	NSYSDR60
800	790	NSYSDR80
1000	990	NSYSDR100
1200	1190	NSYSDR120

Mounting
Rails

Symmetric DIN rail for the Wall-Mounting range

● Fixing to mounting plates or another fixing elements, uprights not included in the supply.
● 2 types:
– Type A: 35 × 15 mm, thickness 1.5 mm.
– Type B: 35 × 7,5 mm, thickness 1 mm.
● Material: zinc-coated steel.

Supply: 20 rails and fixings for direct assembling to the structure.

References by unit. Order by multiples of 20 units (20, 40, etc.).

For ranges
S3D, S3X, PLM

Dimensions (mm)	Rail type	Rail length (B) (mm)	Reference
300	B	250	NSYSDR30B
400	B	350	NSYSDR40B
500	A	450	NSYSDR50A
600	A	550	NSYSDR60A
800	A	750	NSYSDR80A
1000	A	950	NSYSDR100A

Type A

Type B

See also
the accessories

Nuts and fixings
page **7/67**

Uprights
page **7/23**
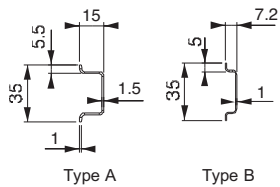
7

Mounting
Rails

Symmetric DIN rails, 2000-mm version

● Material: galvanised steel.

Supply: 20 rails with a length of 2 m.

References by unit. Order by multiples of 20 units (20, 40, etc.).

Length of the rail (mm)	Perforations	Rail type	Reference
2000	Perforated	A	NSYSDR200
2000	Perforated	B	NSYSDR200B
2000	Not perforated	A	NSYSDR200D
2000	Not perforated	B	NSYSDR200BD

Type A

Type B

Type A

Type B

Mounting
Rails

Asymmetric DIN rails

Asymmetric DIN rails for the Floor-Standing range

- Fixed to the standard or technical uprights, not included in the supply, or directly to the structure.
- Ensure horizontal continuity in the case of enclosure assembly.
- Thickness: 1.5 mm.
- Material: zinc-coated steel.

Supply: 20 rails and fixings for direct fixing to the structure.

References by unit. Order by multiples 20 units (20, 40, etc.).

Dimensions (mm) (B)	Rail length (mm) (B-10)	Reference
600	590	NSYADR60
800	790	NSYADR80
1000	990	NSYADR100
1200	1190	NSYADR120

For ranges
SF, SM, SFX, SMX, SD
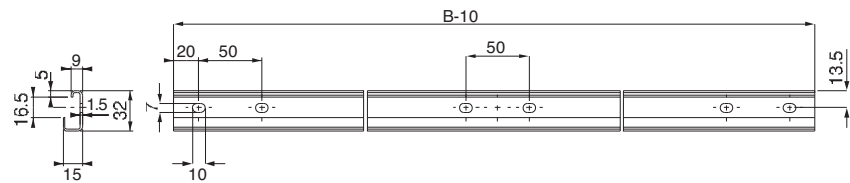
NSYADR60

See also
the accessories
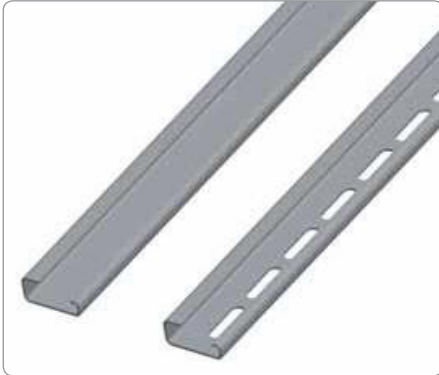
Nuts and fixings
page **7/67**
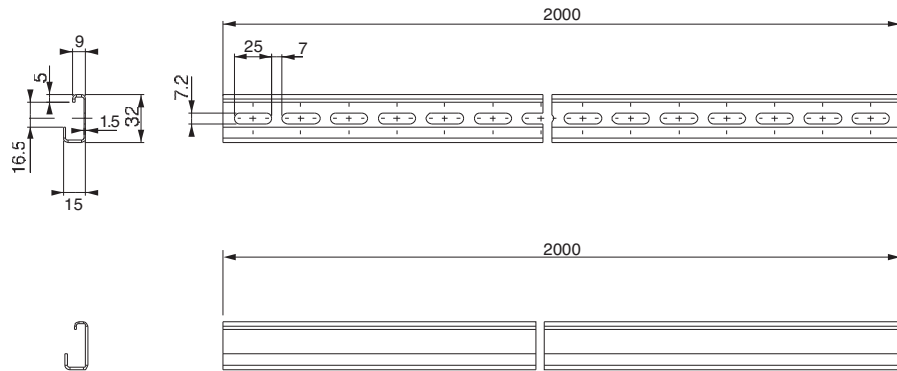
Uprights
page **7/23**

Mounting
Rails

Asymmetric DIN rails, 2000-mm version

● Material: galvanised steel.

Supply: 20 rails with a length of 2 m.

References by unit. Order by multiples of 20 units (20, 40, etc.).

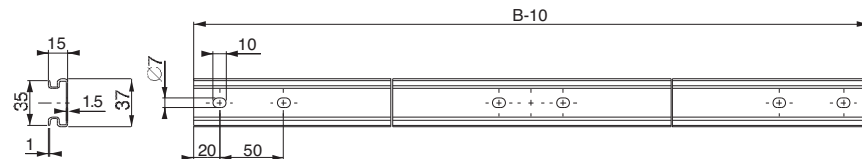| Length (mm)	Perforations	Reference
2000	Not perforated	**NSYADR200**
2000	Perforated	**NSYADR200D**

Mounting
Rails

Double-profile DIN rails

- They combine the advantages of symmetric and asymmetric rails.
- They are fixed to the standard or technical uprights (see page **7/23**) or directly to the structure.
- Quick installation of terminals according to standard DIN46277/1.
- Thickness: 1.5 mm.
- Material: zinc-coated steel.

Supply: 20 rails and fixings for direct assembling to the structure.

References by unit. Order by multiples of 20 units (20, 40, etc.).

For ranges
SF, SM, SFX, SMX, SD

| Dimensions (mm) (B)	Rail length (mm) (B-10)	Reference
600	590	**NSYDPR60**
800	790	**NSYDPR80**
1000	990	**NSYDPR100**
1200	1190	**NSYDPR120**

Double-profile DIN rails, 2000-mm version

- Thickness: 1.5 mm.
- Material: galvanised steel.

Supply: 20 rails with a length of 2 m.

References by unit. Order by multiples of 20 units (20, 40, etc.).

| Length (mm)	Perforations	Reference
2000	Not perforated	**NSYDPR200**
2000	Perforated	**NSYDPR200D**

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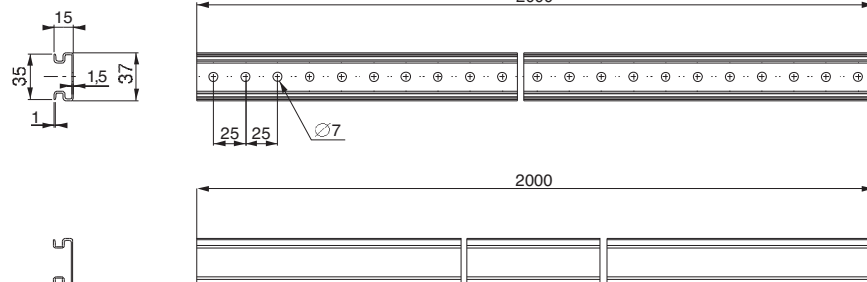
Mounting
Rails

Symmetric C-shaped rails

● Rails for supporting and fixing switchgear on panels and enclosures, formation of chassis, racks and panel reinforcements.
● They are fixed to the structure and to one another by means of fixing elements.
● Material: galvanised steel.

References by unit. Order by multiples of the units specified in the supply.

Rail type	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	Supply	Reference
C20 (1)	21	11	10	1.5	5.5	-	-	-	20	**NSYCN20**
C40 (1)	40	20	24	1.5	8	-	-	-	20	**NSYCN40**
C60	60	30	36	2	12	-	-	-	10	**NSYCN60**
C20	21	11	10	1.5	5.5	5	6.2	15	20	**NSYCNT20**
C40	40	20	24	1.5	8	10	8.5	30	20	**NSYCNT40**
C60	60	30	36	2	12	10	10.5	30	10	**NSYCNT60**

(1) Not perforated.

2000

2000

7
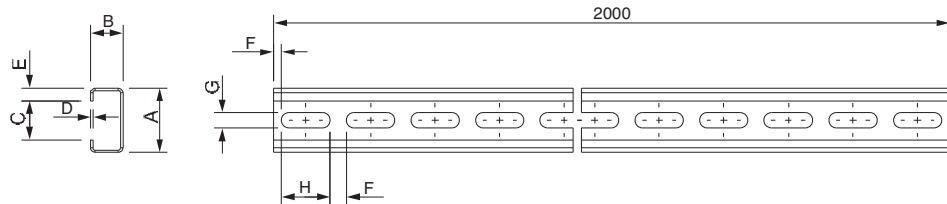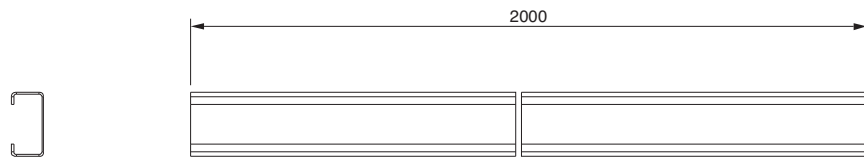
See also
the accessories

Fixing nuts
page **7/68**

Connectors for symmetric C
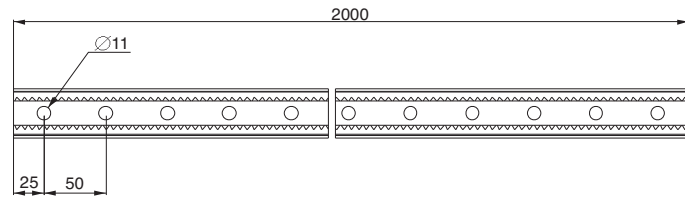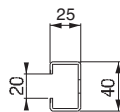shaped rails page **7/59**

Mounting
Rails

Serrated C-shaped rail for heavy loads
- Marked in steps of 25 mm to facilitate switchgear positioning.
- Thickness: 2 mm.
- Material: zinc-coated steel.

Supply: 2 rails with a length of 2 m.

Dimensions (mm)	Reference
2000	NSYSCR200

**See also
the accessories**

Fixing nuts
page **7/68**

Mounting
Rails

U-shaped rail

- Universal rails with elongated drill holes with a width of 8.5 mm which can house M4, M5 and M6 caged nuts.
- Material: galvanised steel.
- Thickness: 2 mm.

Supply: 20 rails with a length of 2 m.

References by unit. Order by multiples of 20 units (20, 40, etc.).

Dimensions (mm)	Reference
2000	NSYCUT30

L-shaped rail

- Universal rails with elongated drill holes with a width of 8.5 mm which allow housing of M4, M5 and M6 caged nuts.
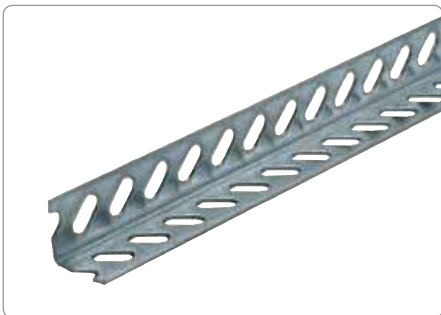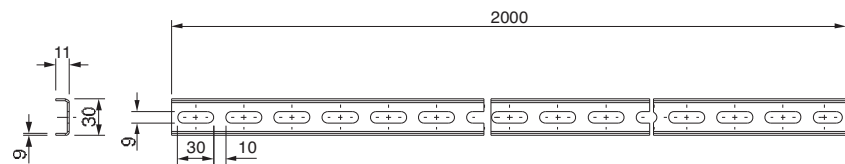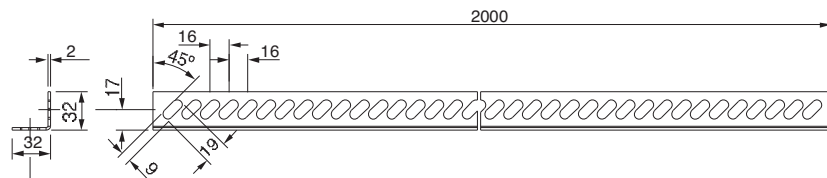- Material: galvanised steel.
- Thickness: 2 mm.

Supply: 20 rails with a length of 2 m.

References by unit. Order by multiples of 20 units (20, 40, etc.).

Dimensions (mm)	Reference
2000	NSYAT32

Schneider Electric

Mounting
Rails

Connectors for symmetric C-shaped rails

- The connectors enable the formation of chassis or frames and structures for fixing switchgear, in any position inside the enclosures, allowing the fixing of DIN rails or other elements.
- See symmetric C-shaped rails, page **7/56**.
- The fixing between connectors and rails is performed using combiplas nuts.

Examples of combinations with connectors for symmetric C-shaped rails
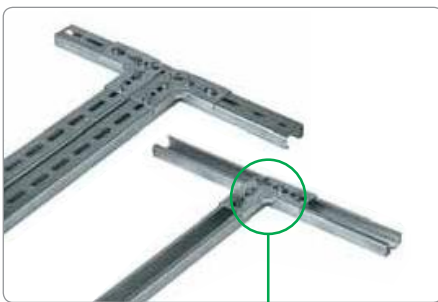
EMA connectors

- The EMA connectors are used to joint two symmetric C-shaped rails, C20 and C40 types, at right angles; they can also be used to obtain a T-shaped assembly.
- Material: zinc-coated steel.
- Thickness: 2 mm.

Supply: 20 units.

References by unit. Order by multiples of 20 units (20, 40, 60, etc.).

A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Reference
60	21.3	6	6.2	15	**NSYEMA20**
100	40.3	10	8.5	25	**NSYEMA40**

Mounting
Rails

EVA connectors

● The EVA connectors are used to join two symmetric C-shaped rails, C20 and C40 types, forming an overlapping assembly with plane change, or also at right angles for the formation of spacers or supports at a different level.
● Material: zinc-coated steel.

Supply: 20 units.

References by unit. Order by multiples of 20 units (20, 40, 60, etc.).

A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Reference
43	19	2	6.2	15	NSYEVA20
78	36	2.5	8.5	25	NSYEVA40

UCA connectors

● The UCA connectors are used to join symmetric C-shaped rails, types C20 and C40, forming a cross-shaped assembly of three rails located on the same plane, for example inside a frame.
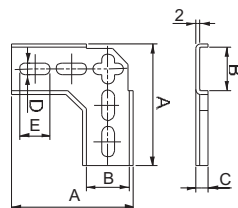● Material: zinc-coated steel.

Supply: 20 units.

References by unit. Order by multiples of 20 units (20, 40, 60, etc.).

A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	Reference
21.3	60	21.3	6	2	6.2	15	NSYUCA22
40.3	116	40.3	10	2.5	8.5	25	NSYUCA44

Mounting
Rails

UTA connectors

● The UTA connectors are used to create a T-shaped assembly between two symmetric C-shaped rails, C20 and C40 types, especially recommended for forming crossbars on chassis and frames.
● The UTA42 connectors type allows C20 rails to be joined with C40 rails.
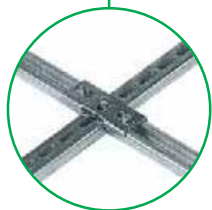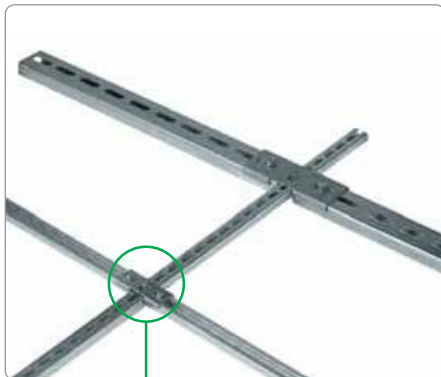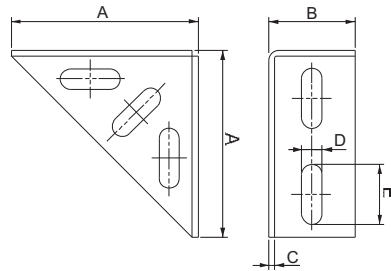● Material: zinc-coated steel.

Supply: 20 units.

References by unit. Order by multiples of 20 units (20, 40, 60, etc.).

A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	Reference
21.3	21.5	53.5	8	2	6.2	15	**NSYUTA22**
21.3	40.5	72.5	8	2	6.2	15	**NSYUTA42**
40.3	40.5	81	10	2.5	8.5	25	**NSYUTA44**
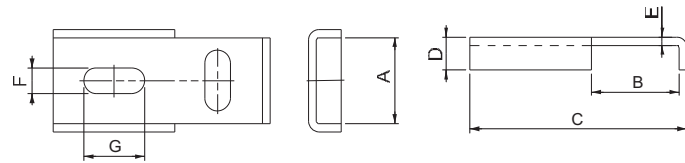
ECA connectors

● The ECA connectors are used to form a cross-shaped assembly with two symmetric C-shaped rails, C20 and C40 types, located perpendicularly on different planes.
● The ECA42 connector type makes it possible to join C20 rails with C40 rails.
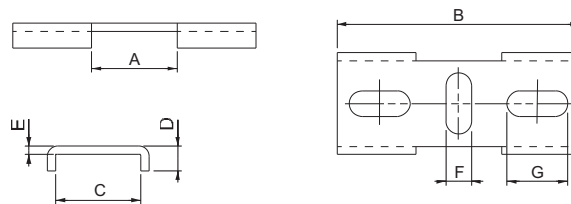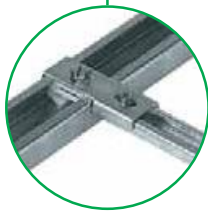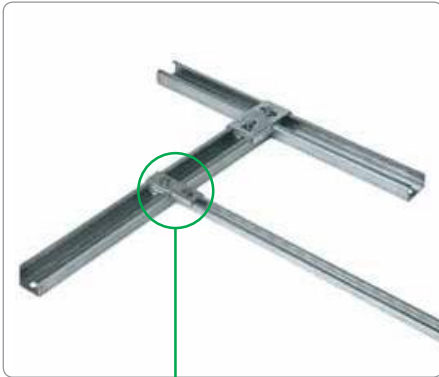● Material: zinc-coated steel.

Supply: 20 units.

References by unit. Order by multiples of 20 units (20, 40, 60, etc.).

A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	Reference
21.3	21.5	8	2	6.2	15	6.2	15	**NSYECA22**
21.3	40.5	8	2	6.2	15	6.2	13	**NSYECA42**
40.3	40.5	10	2.5	8.5	25	8.5	25	**NSYECA44**

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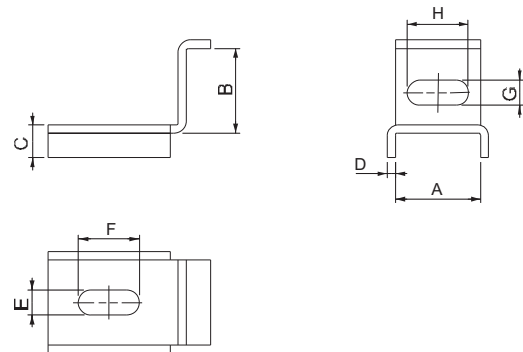
Mounting
Rails

UR connectors

● The UR connectors are used for rectilinear joining of symmetric C-shaped rails.
● Recommended when the standard length is not sufficient or for maximising fractions.
● Material: zinc-coated steel.

Supply: 20 units.

References by unit. Order by multiples of 20 units (20, 40, 60, etc.).

A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Reference
60	18	2	20	15	5	NSYUR20
130	36	3	40	30	10	NSYUR40
130	55	3	40	30	10	NSYUR60
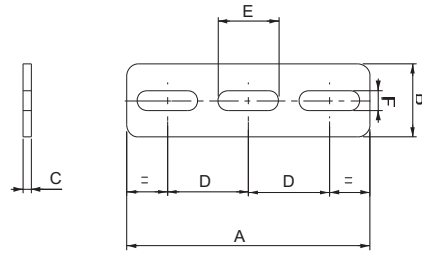
UT connectors

● The UT connectors are used to form T-shaped assemblies between symmetric C-shaped rails. They are used to form crossbars on frames and structures.
● Material: zinc-coated steel.

Supply: 20 units.

References by unit. Order by multiples of 20 units (20, 40, 60, etc.).

A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Reference
54	54	2	20	20	5	NSYUT20
60	80	2	20	25	8	NSYUT40

7

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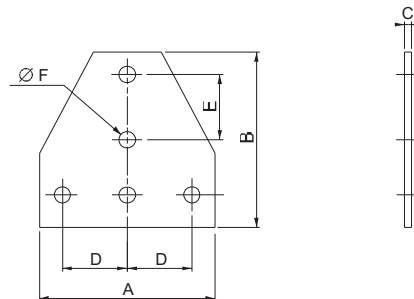
Mounting
Rails

EN connectors

● The EN connectors are used to create L-shaped assemblies with plane change in the symmetric C-shaped rails, between them or with any other section.
● Material: zinc-coated steel.

Supply: 20 units.

References by unit. Order by multiples of 20 units (20, 40, 60, etc.).

Reference
NSYEN20
NSYEN40
NSYEN60

7
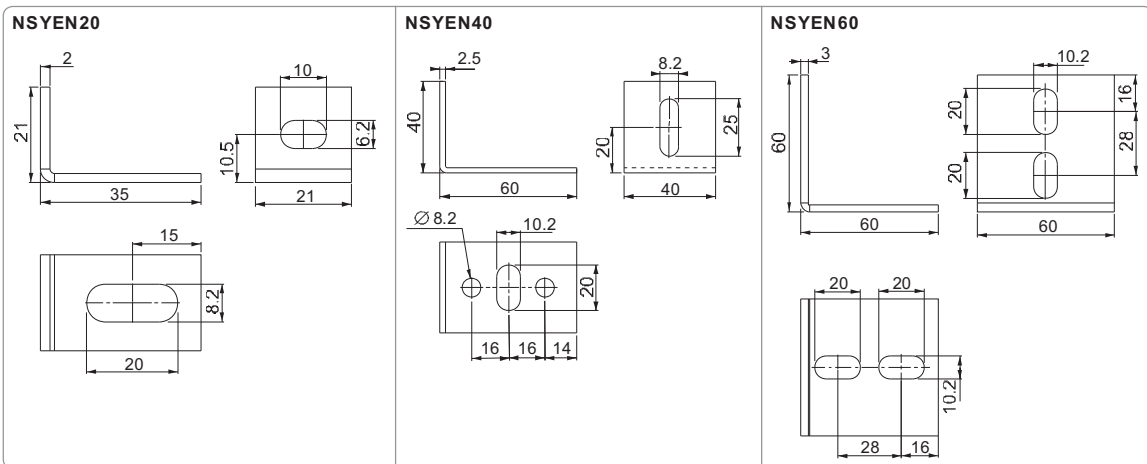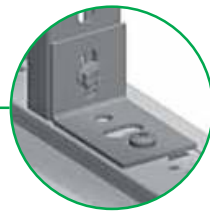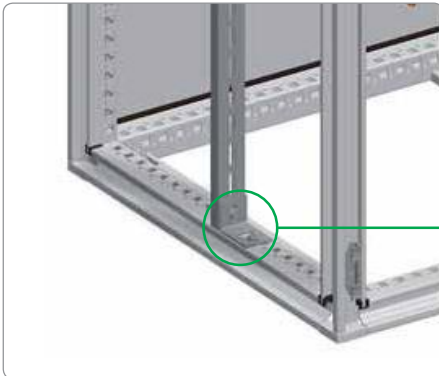
Mounting
Rails

Hexagonal spacers

- Hexagonal spacers for raising switchgear, mounting plates, etc. They can be linked together to achieve variable heights with gradual elevation.
- Their assembly requires M6 or M8 caged nuts.

Supply: 100 hexagonal connectors.

References by unit. Order by multiples of 100 units (100, 200, 300, etc.).

Spacer height (mm) (A)	Thread type (R)	Reference
10	M5	NSYE1025
15	M5	NSYE1525
20	M5	NSYE2025
10	M6	NSYEX106
12	M6	NSYEX126
14	M6	NSYEX146
16	M6	NSYEX166
18	M6	NSYEX186
20	M6	NSYEX206
30	M6	NSYEX306
40	M6	NSYEX406
50	M6	NSYEX506
100	M6	NSYEX1006
15	M8	NSYEX158
20	M8	NSYEX208
30	M8	NSYEX308
40	M8	NSYEX408
50	M8	NSYEX508
60	M8	NSYEX608
100	M8	NSYEX1008

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Accessories
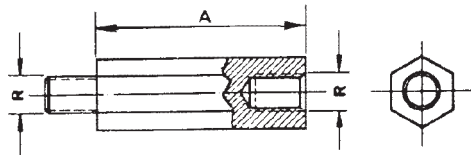
Mounting
Rails

ETU modular spacers

● Modular spacers for installing devices or rails at a different level from that achieved with the basic chassis or mounting plate.
● Material: zinc-coated steel.

Supply: 20 units.

References by unit. Order by multiples of 20 units (20, 40, 60, etc.).

A (mm)	B (mm)	Reference
48	25	NSYETU48
58	25	NSYETU58
79	55	NSYETU79
118	55	NSYETU118

Combination of spacers	Minimum height (mm)	Maximum height (mm)
NSYETU48 + NSYETU48	53	64
NSYETU48 + NSYETU58	63	74
NSYETU48 + NSYETU79	85	95
NSYETU48 + NSYETU118	124	134
NSYETU58 + NSYETU58	73	84
NSYETU58 + NSYETU79	94	104
NSYETU58 + NSYETU118	134	144
NSYETU79 + NSYETU79	84	125
NSYETU79 + NSYETU118	124	164
NSYETU118 + NSYETU118	164	204
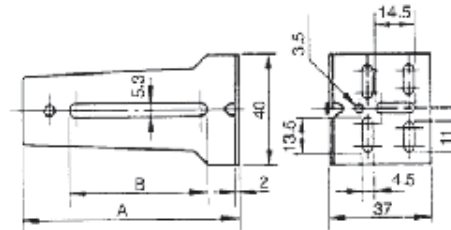
Mounting
Rails

EMM modular spacers

● Progressive modular spacers. Every 2 mm combining two spacers, ref. **NSYEMM95**, a raised height of between 108 and 178 mm is obtained.
● Material: zinc-coated steel.

Supply: 10 units.

A (mm)	Reference
95	NSYEMM95

Schneider Electric

Mounting
Nuts and screws for rails

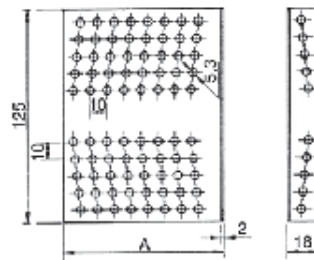| Rail type	Nuts			
Symmetric DIN rails page **7/50**	Clip-on nut	M4	**NSYTDE4**	100
		M5	**NSYTDE5**	100
		M6	**NSYTDE6**	100
Asymmetric DIN rails page **7/53**	Quarter-turn sliding nut	M4	**NSYSNM4A**	100
		M5	**NSYSNM5A**	100
		M6	**NSYSNM6A**	100
Double-profile DIN rails page **7/55**	Quarter-turn sliding nut	M3	**NSYTDC34**	100
		M4		
		M5	**NSYTDC56**	100
		M6		

Fixings		
Screw with captive washer		
M4 × 10	**NSYS10M4H**	100
M4 × 16	**NSYS16M4H**	100
M5 × 12	**NSYS12M5H**	100
M5 × 18	**NSYS18M5H**	100
M6 × 12	**NSYS12M6H**	100
M6 × 16	**NSYS16M6H**	100
M6 × 18	**NSYS18M6H**	100

Self-tapping screw		
M6 × 16	**NSYS16M6HS**	100
M5 × 13	**NSYS13M5HS**	100
Self-tapping screw		
M5 × 16	**NSYS16M5HS**	100

References by unit. Order by multiples of 100 units (100, 200, 300, etc.).

Mounting
Nuts and screws for rails

Rail type	Nuts				Fixings		
	M3		-	100	M4 × 10	**NSYS10M4H**	100
	M4	**C20**	**NSYBN204**	100	M4 × 16	**NSYS16M4H**	100
	M6		**NSYBN206**	100	M5 × 12	**NSYS12M5H**	100
					M5 × 18	**NSYS18M5H**	100
					M6 × 12	**NSYS12M6H**	100
	M4		**NSYBN404**	50	M6 × 16	**NSYS16M6H**	100
Combiplas nut	M6	**C40**	**NSYBN406**	50	M6 × 18	**NSYS18M6H**	100
	M8		**NSYBN408**	50	M8 × 16	**NSYS16M8H**	100
					M8 × 20	**NSYS20M8H**	100
	M4		**NSYBN606**	20			
	M8	**C60**	**NSYBN608**	20			
	M10		**NSYBN610**	20			
	M4	**C20**	**NSYB204**	100			
Metal sliding nut	M4	**C40**	**NSYB404**	100			
	M6	**C40**	**NSYB406**	100			

Symmetric C-shaped rails
page **7/56**

Rail type	Quarter-turn sliding nuts			
	(1)	M6 (1)	**NSYSNM6**	10
	(2)	M8 (1)	**NSYSNM8**	10
		M6 (2)	**NSYSNSM6**	10
		M8 (2)	**NSYSNSM8**	10

Serrated C-shaped rail
for heavy loads
page **7/57**

Quarter-turn
sliding nuts

References by unit. Order by multiples of the units specified in the supply.

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