



CONNECT AND PROTECT

Power Distribution Catalogue

Presenting wide range of Power Distribution enclosure solutions.


nvent

HOFFMAN



Power Distribution

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nVent HOFFMAN can meet your Power Distribution enclosure requirements

The nVent HOFFMAN Power System is specifically developed for power distribution panels for indoor applications, and is based on wall mounted and floor standing enclosures which makes the system compatible with all existing accessories.

The welded frame makes the enclosure strong and rigid and thus well suited for heavy duty applications.

A wide range of accessories are available to allow for any configuration. And, since all enclosures versions are designed around the same platform, the same accessories may be used on all versions, which makes engineering easier and allows for stock reduction with panel builders and distributors. The assembly of the enclosure and accessories is easily done and will help you to reduce assembly time and remain competitive.

This enclosure range has been designed to comply with the relevant standard for empty enclosures, IEC 62208, and is regularly audited by the independent laboratory DEKRA which allows nVent HOFFMAN to put the KEMA-KEUR mark in the enclosures.



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Wall Mounted Enclosures

The design of wall mounted enclosures within the nVent HOFFMAN Power System range, referred to as EPS, is based on the existing mild steel wall mounted enclosure MAS, which means that all the EPS specific accessories are compatible with the general wall mounted enclosure accessories. This makes it possible to design a wide variety of Power Distribution wall mounted solutions.

These mild steel enclosures are pre-treated with iron phosphate, demineralized and protected with epoxy-polyester powder paint RAL 7035 with structured finish, and are available in 600 and 800 mm widths.

Maximum protection for the user and the equipment is achieved thanks to the high protection degree IP 66 to IEC 60529, and IK 10 according to IEC 62262.

The wall mounted range is certified according to the most relevant international standards, such as UL508A, CSA 22.2, GOST and KEMA-KEUR, and the nVent HOFFMAN Power System is tested by SEMKO, according to the new standard EN 61439.

Section possibilities:

Enclosure type	Section possibilities	Section width						External compatibility		Internal compatibility
		200	400	600	800	1000	1200	Complete door	Partial door / panel system	Front panels
MAS	Modular system	-	-	x	x	-	-	x	-	x

Wall Mounted Enclosures

Overview

Typical Application

Modular system



Wall mounted enclosures are ideal for small power distribution panels when internal segregation is not required. The wall mounted range allows for a variety of solutions depending on which components to install.



Modular system

nVent HOFFMAN's modular system allows for dividing sections into sub-sections, where different components may be installed. Switches or measuring components can be installed on a mounting plate adjustable in depth. Modular components or terminal blocks can be mounted on DIN rails. The sub-sections are covered with front panels and an external door.



Compatible system

nVent HOFFMAN's Power System, EPS, wall mounted enclosures and general wall mounted enclosures are based on the same platform design, which means that all the EPS specific accessories are compatible with the general wall mounted accessories.



Wide range of sizes

nVent HOFFMAN has a wide availability of standard enclosure sizes. This allows for short delivery times and the ability to meet a wide range of customer requirements.



Flexible system

nVent HOFFMAN Power System accessories are compatible with nVent HOFFMAN's stainless steel range. This reduces the need to keep stock and reduces the need for personnel to learn about new accessories.



Cost effective solution

nVent HOFFMAN's modular frame allows for two different mounting levels: rear level for mounting of components, and front level for the front panels, which reduces the need to keep stock.

Wall Mounted Enclosures

Single door enclosure | MAS

IP 66 | TYPE 4, 12, 13 | IK 10



Material:

Body: 1.4 mm for enclosures with a depth of 210 or 260 mm / 1.5 mm for enclosures with a depth of 300 or 400 mm, or if a height or width is 1000 mm or greater.
Door: 1.5 mm / 2 mm for enclosures with a height or width of 800 mm or greater.

Body:

Folded and seam welded. Four 8.5 mm diameter holes for wall fixing, pressed out in 20.4 mm diameter x 2 mm depressions to allow air circulation around the rear part of the enclosure.

Door:

Surface mounted with 130° opening. Concealed removable hinges with captive pin. Hinges can be mounted to allow left or right hand opening. Inner M6 welded studs to mount door profiles MMDP. Sealing is ensured by an injected one piece polyurethane gasket.

Lock:

Customized lock with double grip for easy opening of the door. Double-bit 3 mm insert and 90° movement. 1000 mm high enclosures and above have espagnolette three point locking. Other inserts are available as an accessory.

Protection:

IP 55, 66 | TYPE 4, 12, 13 | IK 10. For outdoor installation the use of a rain hood ARF and 100% polyester paint coating is recommended. The corrosion resistance must be taken into consideration.

Finish:

RAL 7035 structured powder coating.

Delivery:

Enclosure with door. For height 600 mm and above two door mounting profiles. Gland plate(s) with gasket(s), plastic double-bit 3 mm key, and mounting accessories. Metallic key for height 1000 mm and above. Earthing facilities.

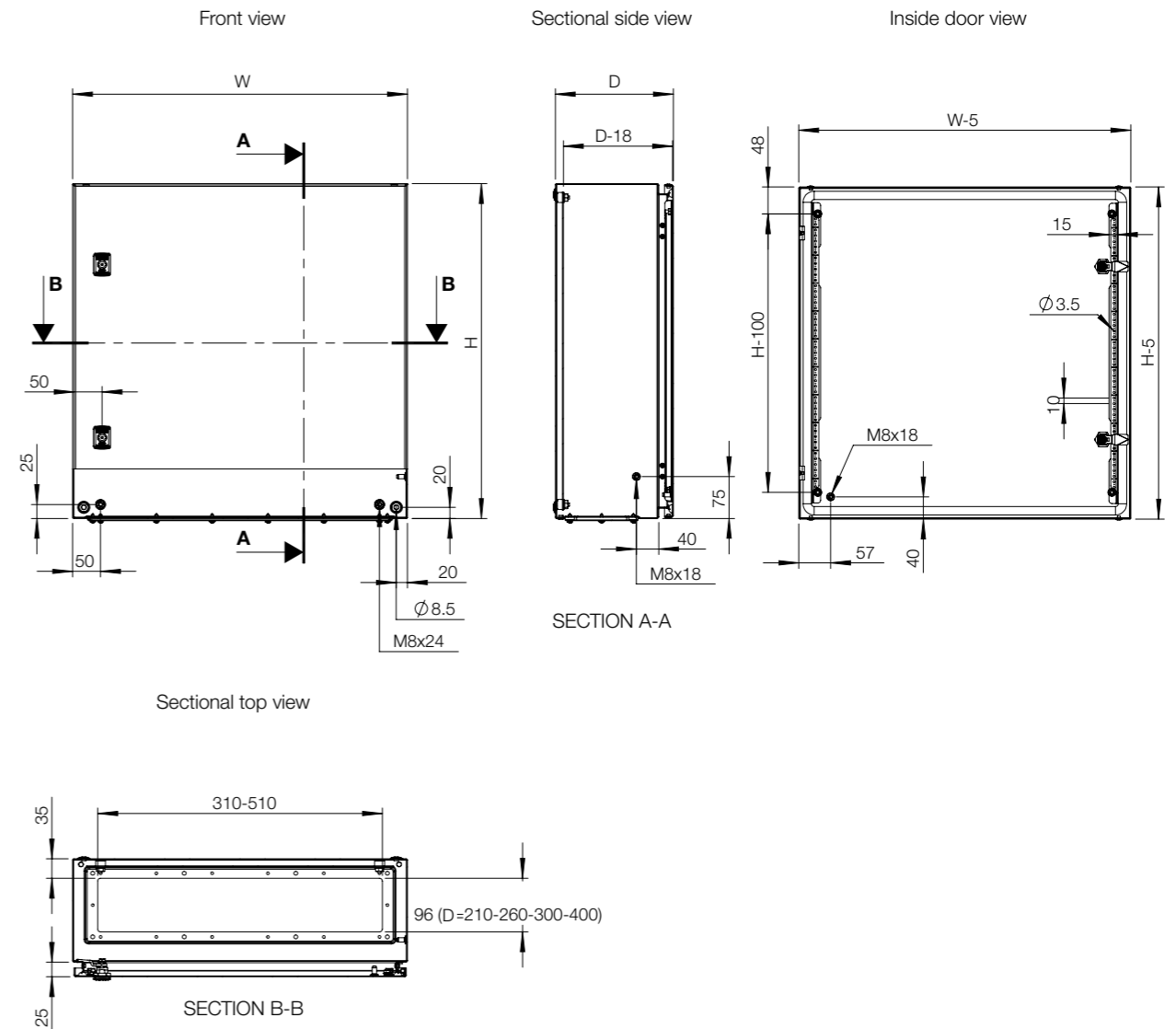


IP 66 | TYPE 4, 12, 13 | IK 10

Without mounting plate

Enclosure dimensions			Gland plate			No. of locks	Item no.
H	W	D	Size	Type	Openings		
600	600	210	510x96	4	1	2	MAS0606021PER5
600	600	300	510x96	4	1	2	MAS0606030PER5
600	600	400	510x96	4	1	2	MAS0606040PER5
600	800	300	310x96	2	2	2	MAS0608030PER5
800	600	210	510x96	4	1	2	MAS0806021PER5
800	600	260	510x96	4	1	2	MAS0806026PER5
800	600	300	510x96	4	1	2	MAS0806030PER5
800	600	400	510x96	4	1	2	MAS0806040PER5
800	800	210	310x96	2	2	2	MAS0808021PER5
800	800	300	310x96	2	2	2	MAS0808030PER5
800	800	400	310x96	2	2	2	MAS0808040PER5
1000	600	260	510x96	4	1	1*	MAS1006026PER5
1000	600	300	510x96	4	1	1*	MAS1006030PER5
1000	800	260	310x96	2	2	1*	MAS1008026PER5
1000	800	300	310x96	2	2	1*	MAS1008030PER5
1000	800	400	310x96	2	2	1*	MAS1008040PER5
1200	600	300	510x96	4	1	1*	MAS1206030PER5
1200	800	300	310x96	2	2	1*	MAS1208030PER5
1200	800	400	310x96	2	2	1*	MAS1208040PER5

* 3 point espagnolette locking.



Accessories selection matrix I MAS



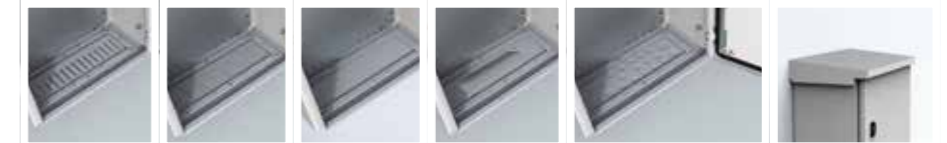
Enclosure	Mounting			Fixing				
	H	W	D	Steel mounting plates	Depth adjustment kits	Modular chassis	Wall mounting brackets	Pole fixation
MAS0606021PER5	600	600	210	AMP06060	AMG210	AC06060R5	AW41	EPF0600
MAS0606030PER5	600	600	300	AMP06060	AMG300	AC06060R5	AW41	EPF0600
MAS0606040PER5	600	600	400	AMP06060	AMG400	AC06060R5	AW41	EPF0600
MAS0608030PER5	600	800	300	AMP06080	AMG300	-	AW41	EPF0800
MAS0806021PER5	800	600	210	AMP08060	AMG210	AC08060R5	AW41	EPF0600
MAS0806026PER5	800	600	260	AMP08060	AMG260	AC08060R5	AW41	EPF0600
MAS0806030PER5	800	600	300	AMP08060	AMG300	AC08060R5	AW41	EPF0600
MAS0806040PER5	800	600	400	AMP08060	AMG400	AC08060R5	AW41	EPF0600
MAS0808021PER5	800	800	210	AMP08080	AMG210	-	AW41	EPF0800
MAS0808030PER5	800	800	300	AMP08080	AMG300	-	AW41	EPF0800
MAS0808040PER5	800	800	400	AMP08080	AMG400	-	AW41	EPF0800
MAS1006026PER5	1000	600	260	AMP10060	AMG260	AC10060R5	AW41	EPF0600
MAS1006030PER5	1000	600	300	AMP10060	AMG300	AC10060R5	AW41	EPF0600
MAS1008026PER5	1000	800	260	AMP10080	AMG260	AC10080R5	AW41	EPF0800
MAS1008030PER5	1000	800	300	AMP10080	AMG300	AC10080R5	AW41	EPF0800
MAS1008040PER5	1000	800	400	AMP10080	AMG400	AC10080R5	AW41	EPF0800
MAS1206030PER5	1200	600	300	AMP12060	AMG300	-	AW41	EPF0600
MAS1208030PER5	1200	800	300	AMP12080	AMG300	-	AW41	EPF0800
MAS1208040PER5	1200	800	400	AMP12080	AMG400	-	AW41	EPF0800



Enclosure	Fixing				Doors				
	H	W	D	Front /rear plinths (100 mm height)	Side plinths (100 mm height)	Front /rear plinths (200 mm height)	Side plinths (200 mm height)	Transparent doors	Glazed doors
MAS0606021PER5	600	600	210	-	-	-	-	ADT06060R5	ADC06060R5
MAS0606030PER5	600	600	300	P1060	PA1030	P2060	PA2030	ADT06060R5	ADC06060R5
MAS0606040PER5	600	600	400	P1060	PA1040	P2060	PA2040	ADT06060R5	ADC06060R5
MAS0608030PER5	600	800	300	P1080	PA1030	P2080	PA2030	-	-
MAS0806021PER5	800	600	210	-	-	-	-	ADT08060R5	ADC08060R5
MAS0806026PER5	800	600	260	P1060	PA1026	P2060	PA2026	ADT08060R5	ADC08060R5
MAS0806030PER5	800	600	300	P1060	PA1030	P2060	PA2030	ADT08060R5	ADC08060R5
MAS0806040PER5	800	600	400	P1060	PA1040	P2060	PA2040	ADT08060R5	ADC08060R5
MAS0808021PER5	800	800	210	-	-	-	-	-	-
MAS0808030PER5	800	800	300	P1080	PA1030	P2080	PA2030	-	-
MAS0808040PER5	800	800	400	P1080	PA1040	P2080	PA2040	-	-
MAS1006026PER5	1000	600	260	P1060	PA1026	P2060	PA2026	ADT10060R5	ADC10060R5
MAS1006030PER5	1000	600	300	P1060	PA1030	P2060	PA2030	ADT10060R5	ADC10060R5
MAS1008026PER5	1000	800	260	P1080	PA1026	P2080	PA2026	ADT10080R5	ADC10080R5
MAS1008030PER5	1000	800	300	P1080	PA1030	P2080	PA2030	ADT10080R5	ADC10080R5
MAS1008040PER5	1000	800	400	P1080	PA1040	P2080	PA2040	ADT10080R5	ADC10080R5
MAS1206030PER5	1200	600	300	P1060	PA1030	P2060	PA2030	ADT12060R5	ADC12060R5
MAS1208030PER5	1200	800	300	P1080	PA1030	P2080	PA2030	ADT12080R5	ADC12080R5
MAS1208040PER5	1200	800	400	P1080	PA1040	P2080	PA2040	ADT12080R5	ADC12080R5



Enclosure	Doors								
	H	W	D	Padlocking	180° Hinges	Door stop	Door switch	Door mounting profiles	Door horizontal profiles
MAS0606021PER5	600	600	210	PLC01	MMH02	ADO202	ADSW01	MMDP060	DHP060
MAS0606030PER5	600	600	300	PLC01	MMH02	ADO202	ADSW01	MMDP060	DHP060
MAS0606040PER5	600	600	400	PLC01	MMH02	ADO202	ADSW01	MMDP060	DHP060
MAS0608030PER5	600	800	300	PLC01	MMH02	ADO202	ADSW01	MMDP060	DHP080
MAS0806021PER5	800	600	210	PLC01	MMH02	ADO202	ADSW01	MMDP080	DHP060
MAS0806026PER5	800	600	260	PLC01	MMH02	ADO202	ADSW01	MMDP080	DHP060
MAS0806030PER5	800	600	300	PLC01	MMH02	ADO202	ADSW01	MMDP080	DHP060
MAS0806040PER5	800	600	400	PLC01	MMH02	ADO202	ADSW01	MMDP080	DHP060
MAS0808021PER5	800	800	210	PLC01	MMH02	ADO202	ADSW01	MMDP080	DHP080
MAS0808030PER5	800	800	300	PLC01	MMH02	ADO202	ADSW01	MMDP080	DHP080
MAS0808040PER5	800	800	400	PLC01	MMH02	ADO202	ADSW01	MMDP080	DHP080
MAS1006026PER5	1000	600	260	PLC01	MMH03	ADO202	ADSW01	MMDP100	DHP060
MAS1006030PER5	1000	600	300	PLC01	MMH03	ADO202	ADSW01	MMDP100	DHP060
MAS1008026PER5	1000	800	260	PLC01	MMH03	ADO202	ADSW01	MMDP100	DHP080
MAS1008030PER5	1000	800	300	PLC01	MMH03	ADO202	ADSW01	MMDP100	DHP080
MAS1008040PER5	1000	800	400	PLC01	MMH03	ADO202	ADSW01	MMDP100	DHP080
MAS1206030PER5	1200	600	300	PLC01	MMH03	ADO202	ADSW01	MMDP120	DHP060
MAS1208030PER5	1200	800	300	PLC01	MMH03	ADO202	ADSW01	MMDP120	DHP080
MAS1208040PER5	1200	800	400	PLC01	MMH03	ADO202	ADSW01	MMDP120	DHP080



Enclosure	Gland plates					Protection			
	H	W	D	Ventilated gland plates	Ventilated gland plates with fly-net	Ventilated gland plates with filter	Adapter gland plates	Gland plates with knock-outs	Rain hoods
MAS0606021PER5	600	600	210	AFR04R5	AFG04R5	AFV04R5	AFA04R5	AFK41R5/AFK42R5	ARF06021R5
MAS0606030PER5	600	600	300	AFR04R5	AFG04R5	AFV04R5	AFA04R5	AFK41R5/AFK42R5	ARF06030R5
MAS0606040PER5	600	600	400	AFR04R5	AFG04R5	AFV04R5	AFA04R5	AFK41R5/AFK42R5	ARF06040R5
MAS0608030PER5	600	800	300	AFR02R5	AFG02R5	AFV02R5	AFA02R5	AFK21R5/AFK22R5	ARF08030R5
MAS0806021PER5	800	600	210	AFR04R5	AFG04R5	AFV04R5	AFA04R5	AFK41R5/AFK42R5	ARF06021R5
MAS0806026PER5	800	600	260	AFR04R5	AFG04R5	AFV04R5	AFA04R5	AFK41R5/AFK42R5	ARF06026R5
MAS0806030PER5	800	600	300	AFR04R5	AFG04R5	AFV04R5	AFA04R5	AFK41R5/AFK42R5	ARF06030R5
MAS0806040PER5	800	600	400	AFR04R5	AFG04R5	AFV04R5	AFA04R5	AFK41R5/AFK42R5	ARF06040R5
MAS0808021PER5	800	800	210	AFR02R5	AFG02R5	AFV02R5	AFA02R5	AFK21R5/AFK22R5	ARF08021R5
MAS0808030PER5	800	800	300	AFR02R5	AFG02R5	AFV02R5	AFA02R5	AFK21R5/AFK22R5	ARF08030R5
MAS0808040PER5	800	800	400	AFR02R5	AFG02R5	AFV02R5	AFA02R5	AFK21R5/AFK22R5	ARF08040R5
MAS1006026PER5	1000	600	260	AFR04R5	AFG04R5	AFV04R5	AFA04R5	AFK41R5/AFK42R5	ARF06026R5
MAS1006030PER5	1000	600	300	AFR04R5	AFG04R5	AFV04R5	AFA04R5	AFK41R5/AFK42R5	ARF06030R5
MAS1008026PER5	1000	800	260	AFR02R5	AFG02R5	AFV02R5	AFA02R5	AFK21R5/AFK22R5	ARF08026R5
MAS1008030PER5	1000	800	300	AFR02R5	AFG02R5	AFV02R5	AFA02R5	AFK21R5/AFK22R5	ARF08030R5
MAS1008040PER5	1000	800	400	AFR02R5	AFG02R5	AFV02R5	AFA02R5	AFK21R5/AFK22R5	ARF08040R5
MAS1206030PER5	1200	600	300	AFR04R5	AFG04R5	AFV04R5	AFA04R5	AFK41R5/AFK42R5	ARF06030R5
MAS1208030PER5	1200	800	300	AFR02R5	AFG02R5	AFV02R5	AFA02R5	AFK21R5/AFK22R5	ARF08030R5
MAS1208040PER5	1200	800	400	AFR02R5	AFG02R5	AFV02R5	AFA02R5	AFK21R5/AFK22R5	ARF08040R5



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Wall Mounted Enclosures

Accessories | General

Mounting plates, AMP

Description: Steel mounting plate for wall mounted enclosures. All sizes from 800 mm and above are strengthened by folded edges. By using the AMG accessory, the mounting plate position can be adjusted to any depth. This accessory is not suitable for the AFS range of enclosures, please refer to the replacement and spare parts catalogue.

Material: Galvanized steel.

Pack quantity: 1 piece.



For enclosure		Mounting plate dimensions		Item no.
H	W	h	w	
600	600	570	550	AMP06060
600	800	570	750	AMP06080
800	600	770	550	AMP08060
800	800	770	750	AMP08080
1000	600	970	550	AMP10060
1000	800	970	750	AMP10080
1200	600	1170	550	AMP12060
1200	800	1170	750	AMP12080

Depth adjustment kits, AMG

Description: To provide depth adjustment for different accessories: mounting plate, 19" profiles and inner door. In stainless steel enclosures machining is required.

Material: 2 mm galvanized steel.

Depth adjustment: Distance to the door D-35 to 65 mm.

Pack quantity: 2 pairs with mounting accessories.



For enclosure		Item no.
D		
210		AMG210
260		AMG260
300		AMG300
400		AMG400

Depth adjustment bolts, AMTE

Description: For depth adjustment of the mounting plate. Metric thread M8.

Material: Zinc plated steel.



Length	Pack quantity	Item no.
10	50	AMTE8010
20	50	AMTE8020
30	50	AMTE8030
40	20	AMTE8040
50	20	AMTE8050
55	20	AMTE8055
100	20	AMTE8100

Modular chassis, AC

Description: Used for easy mounting of DIN-rail components with a maximum height of 68 mm. Distance between rows 125 mm. If required, the standard enclosure door can be replaced with a glazed door. Usable depth between front cover and external door: 35 mm. Adjustable depth position with AMG accessory. In stainless steel enclosure machining is required.

Material: DIN-rails PP0735 made of 1.2 mm galvanized steel, vertical profiles 1.5 mm mild steel, and front cover 1.5 mm mild steel.

Finish: RAL 7035 structured powder coating.

Pack quantity: Slotted front panel, two vertical profiles, top and bottom blank panels, one DIN-rail per row, and mounting accessories.



For enclosure				
H	W	No. of modules	No. of rows	Item no.
600	600	108	4	AC06060R5
800	600	162	6	AC08060R5
1000	600	189	7	AC10060R5
1000	800	266	7	AC10080R5

Wall mounting brackets, AW

Description: Mounting brackets for safe wall fixing. It includes the sealing washers to guarantee the IP rating.

Material: 3 mm zinc plated steel.

Pack quantity: 4 brackets with mounting accessories.



Item no.
AW41

Enclosure pole fixation, EPF

Description: Accessory to fix enclosures onto poles. Maximum load of 900 N.

Material: Galvanized steel.

Minimum pole diameter: 80 mm.

Maximum pole diameter: 250 mm.

Pack quantity: 2 profiles, 2 circular mounting strips for pole attachment and mounting accessories.



For Enclosure		Item no.
W		
600		EPF0600
800		EPF0800

Wall Mounted Enclosures

Accessories | General

Front/rear plinths, P

Description: Four corner pieces with removable front covers. The side panels PA must be ordered separately. Available heights: 100 and 200 mm. Machining is required.

Material: 2.5 mm mild steel for corner pieces and 1.5 mm mild steel for covers.

Finish: RAL 7022 structure powder coating.

Pack quantity: 4 corner pieces and 2 front covers, with mounting accessories.

Plinth		For enclosure		Item no.
H		W		
100		600		P1060
100		800		P1080
200		600		P2060
200		800		P2080



Side plinths, PA

Description: Side covers for plinth P, strengthened by folded edges.

Material: 1.5 mm mild steel.

Finish: RAL 7022 structure powder coating.

Pack quantity: 2 pieces for height 100 mm and 4 pieces for height 200 mm.

Plinth		For enclosure		Item no.
H		D		
100		260		PA1026
100		300		PA1030
100		400		PA1040
200		260		PA2026
200		300		PA2030
200		400		PA2040



Transparent doors, ADT

Description: To replace the standard door, it provides a clear view of the components installed inside the enclosure. The lock(s) are interchangeable with all nVent HOFFMAN's standard lock(s).

Material: 1.5 mm mild steel / 2 mm for enclosures with a height or width of 800 mm or greater and 3 mm transparent acrylic glass.

Finish: RAL 7035 structured powder coating.

Protection: IP 55.

Pack quantity: 1 door.

For enclosure		Viewing area		No. of locks	Item no.
H	W	h	w		
600	600	459	443	2	ADT06060R5
800	600	659	443	2	ADT08060R5
1000	600	859	427	1*	ADT10060R5
1000	800	859	627	1*	ADT10080R5
1200	600	1059	427	1*	ADT12060R5
1200	800	1059	627	1*	ADT12080R5

* 3 point espagnolette locking.



Glazed doors with clear glass, ADC

Description: To replace the standard door, it provides a clear view of the components installed inside the enclosure. The lock(s) are interchangeable with all nVent HOFFMAN's standard lock(s).

Material: 1.5 mm mild steel / 2 mm for enclosures with a height or width of 800 mm or greater and 4 mm clear safety glass.

Finish: RAL 7035 structured powder coating.

Protection: IP 55 | TYPE 12, 13.

Pack quantity: 1 door.

For enclosure		Viewing area		No. of locks	Item no.
H	W	h	w		
600	600	459	443	2	ADC06060R5
800	600	659	443	2	ADC08060R5
1000	600	859	427	1*	ADC10060R5
1000	800	859	627	1*	ADC10080R5
1200	600	1059	427	1*	ADC12060R5
1200	800	1059	627	1*	ADC12080R5

* 3 point espagnolette locking.



Wall Mounted Enclosures

Accessories | General

Inserts, ALIS

Description: Inserts to replace the standard double-bit 3 mm insert in the standard ALLS503 lock.
Material: Zamak chrome plated.
Pack quantity: 1 piece.



Description	Item no.
Double-bit 3 mm	ALIS503
Double-bit 5 mm	ALIS505
Square 7 mm	ALIS523
Triangular 8 mm	ALIS524
Square 8 mm	ALIS525
Slotted 2x4 mm	ALIS528

Locks, ALL

Description: Alternative locks to replace the standard one.
Pack quantity: 1 piece.



Description	Type	Protection	Item no.
ADA/ACA lock with cylinder	Ronis key no. C21323	IP 65	ALL506
ADAB/ACB lock with cylinder	Ronis key no. C21323	IP 65	ALL507
Chrome plated lock with cylinder	Ronis key no. M21323	IP 65	ALL508
Polyamide lock with cylinder	Key 5333	IP 55	ALL509
nVent HOFFMAN lock with cylinder	Ronis key no. C21323	IP 65	ALL510

Handles, ALT

Description: Alternative handles to replace the standard lock.
Pack quantity: 1 piece.



Description	Protection	Item no.
Plastic handle	IP 65	ALT560
Chrome plated T-handle with cylinder lock, key M21323	IP 65	ALT561
Chrome plated handle with cylinder lock, key M21323	IP 65	ALT562
Plastic handle with cylinder lock, Key 5333	IP 65	ALT563

Padlocking, PLC

Description: The padlocking cover is mounted over the existing standard lock. The standard lock is totally covered and not accessible when padlock is fitted. Maximum padlock bow diameter of 10 mm.
Material: Stainless steel.
Pack quantity: 1 piece.



Item no.
PLC01

Keys, LSK

Description: Key with nVent HOFFMAN logo. Easy to use design, providing a good grip.
Pack quantity: 1 piece.



Description	Material	Item no.
Double-bit 3 mm	Plastic	LSK502
Double-bit 3 mm	Metalic	LSK503
Double-bit 5 mm	Metalic	LSK505
Square 7 mm	Metalic	LSK523
Square 8 mm	Metalic	LSK524
Triangle 7 mm	Metalic	LSK526
Triangle 8 mm	Metalic	LSK527

Multi key, LSMK

Description: Multi-Key function with nVent HOFFMAN logo and a different key in every end: double-bit 5 mm, square 8 mm, triangle 8 mm and a standard hexagonal adaptor to use with the screw ends.
Material: Steel.
Pack quantity: 1 piece.



Item no.
LSMK01

Hinges, MMH

Description: Door hinges that allow the door to open 180°. Machining is required.
Material: Zinc plated steel.
Pack quantity: Hinges with mounting accessories.



For enclosure		Item no.
H		
≤ 800mm		MMH02
>800mm		MMH03

Wall Mounted Enclosures

Accessories | General

Door stop, ADO

Description: Door stop to fit all wall mounted enclosure dimensions. To secure the door in an open position to the degree that meets user requirements. Door stop can be mounted at the top or bottom of the enclosure. Machining is required.

Pack quantity: 1 piece with mounting accessories.

Material	Item no.
Zinc plated steel	ADO202



Door switch, ADSW

Description: Door switch to activate any electrical device (lighting, signalling, alarms, etc.) designed for wall mounted enclosures. Cable entry M20. In stainless steel enclosures, machining is required.

Switch capacity: 6A / 230V.

Approvals: CE, CSA, EAC, UL.

Pack quantity: 1 piece with mounting accessories.

Item no.
ADSW01



Door horizontal profiles, DHP

Description: Horizontal profiles with 25 mm hole pattern of 4.5 mm and 6.5 mm of diameter for the attachment and installation of equipment. They fit directly onto the MMDP door mounting profiles. They can also be mounted vertically onto two horizontal profiles. For doors with espagnolette locking system, profiles must be cut where indicated.

Material: 1.5 mm galvanized steel.

Pack quantity: 5 pieces with mounting accessories.

For enclosure		Item no.
W		
600		DHP060
800		DHP080



Document pocket, DRA

Description: Self adhesive, for DIN A4.

Usable depth: 30 mm.

Material: Thermoplastic.

Finish: RAL 7035.

Pack quantity: 1 document pocket with double sided tape.

Item no.
DRA04



Gland plate combining gaskets, AGC

Description: To be used when a wall mounted enclosures combination (MAS/MAD/MAP) is needed. Combining gaskets are to be used to bay gland plate openings together.

Material: 8 mm polyethylene foam.

Pack quantity: 2 pieces, and combination mounting accessories.

Size	For opening	Item no.
2	310 x 96	AGC02
4	510 x 96	AGC04



Ventilated gland plates, AFR

Description: Louvered plate, pressed out 5 mm.

Material: 1.4 mm mild steel.

Finish: RAL 7035 structured powder coating.

Protection: IP 23, in bottom or vertical position.

Pack quantity: 1 piece.

Size	For opening	Item no.
2	310 x 96	AFR02R5
4	510 x 96	AFR04R5



Wall Mounted Enclosures

Accessories | General

Ventilated gland plates with fly-net, AFG

Description: Louvered plate, pressed out 5 mm with fly-net.
Material: 1.4 mm mild steel.
Finish: RAL 7035 structured powder coating.
Protection: IP 43, in bottom or vertical position.
Pack quantity: 1 piece.

Size	For opening	Item no.
2	310 x 96	AFG02R5
4	510 x 96	AFG04R5



Ventilated gland plates with filter, AFV

Description: Louvered plate, pressed out 5 mm with filter.
Material: 1.4 mm mild steel.
Finish: RAL 7035 structured powder coating.
Protection: IP 53, in bottom or vertical position.
Pack quantity: 1 piece.

Size	For opening	Item no.
2	310 x 96	AFV02R5
4	510 x 96	AFV04R5



Adapter gland plates, AFA

Description: Adapts FL gland plates to the wall mounted, steel enclosures gland opening.
Material: 1.4 mm mild steel.
Finish: RAL 7035 structured powder coating.
Pack quantity: 1 piece.

Size	For opening	No. of FL openings	Item no.
2	310 x 96	1xFL21	AFA02R5
4	510 x 96	2xFL21	AFA04R5



Plastic gland plates, EHTC

Description: Gland plate suitable for leading through cables as well as different types of tubing. To be installed directly to the adapter gland plate AFA02 / AFA04.
Material: Different types of polymers reinforced with a steel plate. Halogen free and UV resistant.
Protection: IP 65.
Finish: RAL 7035.
Pack quantity: 1 piece with mounting accessories.

Size	Item no.
FL21	EHTC2125G
FL21	EHTC213G
FL21	EHTC2135G
FL21	EHTC2150G

Cable / Tube diameter (mm)	EHTC2125G	EHTC213G	EHTC2135G	EHTC2150G
5-7	4			
6-10			4	
6-14		3		
7-12			12	
7-13				49
8-14 / 7-10	16			
10-14			16	
12-18			2	
14-20 / 5-10	4			
15-25				1
17-32			1	
20-26 / 12-15	1			
24-54		2		
30-59		1		

Gland plates with knock-outs, AFK

Description: Gland plates with knock-outs according to table.
Material: 1.4 mm mild steel.
Finish: RAL 7035 structured powder coating.
Pack quantity: 1 piece.

Size	For opening	M16	M20	M25	M32	Item no.
2	310 x 96	9	5	4	2	AFK21R5
2	310 x 96	21	-	1	1	AFK22R5
4	510 x 96	27	5	4	2	AFK41R5
4	510 x 96	18	14	3	1	AFK42R5



Wall Mounted Enclosures

Accessories | General

Plastic cable glands, CPG

Description: Traditional cable fittings. Known for excellent strain relief even while providing a high protection class. Plastic lock nuts for fixation are included in the delivery.

Material: Fitting body made of polyamide PA6, and sealing made of neoprene.

Temperature resistance: -25° C to +100° C.

Flammability: V-0 according to UL94.

Finish: RAL 7035.

Protection: IP 68 at 5 bar.

Pack quantity:

Thread	Cable Size	Pack quantity	Item no.
M12x1.5	3 - 6.5	100	CPG12
M16x1.5	5 - 10	50	CPG16
M20x1.5	6 - 12	50	CPG20
M25x1.5	13 - 18	50	CPG25
M32x1.5	18 - 25	20	CPG32
M40x1.5	22 - 32	10	CPG40
M50x1.5	30 - 38	5	CPG50
M63x1.5	34 - 44	5	CPG63



Simple protection cables entry, CES

Description: Simple grommet manufactured in a rubber-like material. The installation does not require tools. The "pushout" membrane is a permanent seal until it is penetrated by a cable or pipe. It is equipped with a sock that closes tight around the cable and allows for it to be moved around like a "joy-stick" in the opening without endangering the IP, so it works extremely well with cables passing through at an angle. Suitable for holes in materials of 0.5 to 4.5 mm thickness.

Material: TPE (thermoplastic elastomer), halogen free.

Temperature resistance: -50° C to +125° C.

Finish: RAL 7035.

Protection: IP 67.

Metric	Cable diameter (mm)	Hole diameter (mm)	H	H1	H2	Diameter (mm)	Pack quantity	Item no.
M16	5-10	16.5	11.0	4.0	6.75	23.5	50	CES16
M20	6-13	20.5	11.0	4.0	6.75	27.5	50	CES20
M25	8-17	25.5	11.0	4.0	6.75	39.5	50	CES25
M32	12-24	32.5	11.0	4.0	6.75	39.5	25	CES32



Cable anchorage glands, CAG

Description: Two-component grommet with membrane seal and cable anchorage. The installation does not require tools, it is self-adjusting to its surrounding wall thickness and click-fixed in place. Because of its compact design it only extends 5.7 mm outside the enclosure on which it is mounted. The "pushout" membrane is a permanent seal until it is penetrated by a cable or pipe. Suitable for holes in materials of 0.7 to 3 mm thickness.

Material: TPE and polyamide 66, halogen free.

Temperature resistance: -20° C to +125° C.

Finish: RAL 7035.

Protection: IP 67/65, waterproof.

Pack quantity: 50 pieces.

Metric	Cable diameter (mm)	Hole diameter (mm)	H	H2	Diameter (mm)	Item no.
M20	7-11	20.5	17-20	5.7	34-37	CAG20
M25	7-13	25.5	17-20	5.7	39-42	CAG25



Double protection cables entry, CED

Description: The rubber grommet is very simple to use. The installation does not require tools, which in turn means lower work cost. The "pushout" membrane is a permanent seal until it is penetrated by a cable or pipe. Suitable for holes in materials of 0.5 to 4 mm thickness.

Material: EPDM, halogen free.

Temperature resistance: -40° C to +110° C.

Finish: RAL 7035.

Protection: IP 67.

Metric	Cable diameter (mm)	Hole diameter (mm)	H	H1	Diameter (mm)	Pack quantity	Item no.
M12	4-7	12.5	12.8	5.6	20.0	50	CED12
M16	5-9	16.5	17.7	11.0	21.0	50	CED16
M20	8-13	20.5	20.0	13.4	25.5	50	CED20
M25	11-17	25.5	21.3	15.3	30.5	50	CED25
M32	15-20	32.5	24.6	18.6	38.5	25	CED32
M40	19-28	40.5	29.5	21.7	48.5	25	CED40
M50	27-35	50.5	34.8	25.0	60.5	10	CED50



Wall Mounted Enclosures

Accessories | General

Rain hoods, ARF

Description: To be fitted as an outdoor shelter on single mounted enclosures. The roof is slightly sloped and has a dripstrip. Machining is required. It increases the enclosure dimension in H:60 mm, D:20 mm and W:20 mm.

Material: 1.5 mm mild steel.

Finish: RAL 7035 structured powder coating.

Pack quantity: 1 rain hood with mounting accessories.

Additional information: If the rain hood is exposed to high levels of UV radiation, the ARF should be coated with 100% polyester paint. This can be ordered as a special accessory.

For enclosure			
W	D		Item no.
600	210		ARF06021R5
600	260		ARF06026R5
600	300		ARF06030R5
600	400		ARF06040R5
800	210		ARF08021R5
800	260		ARF08026R5
800	300		ARF08030R5
800	400		ARF08040R5



Lifting eyes, AL

Description: M12 thread. Complies with DIN 580 lifting requirements. Machining is required.

Material: Steel.

Pack quantity: 2 eye-bolts, 2 reinforcements and mounting accessories.

Item no.
AL9301



Wall Mounted Enclosures

Accessories | Modular system

Modular system frames, MSMSM

- Description:** Two single vertical profiles, which can be used both for front covers and assembly of components. A cost effective solution for panel builders, reducing assembly time, which also enables assembly outside the enclosure.
- Material:** 1.5 mm steel.
- Finish:** RAL 7035.
- Pack quantity:** 1 kit.
- Requirements:** To be assembled on MAS-ASR enclosures.

For enclosure		Item no.
H	W	
600	600	MSMSM0606
600	800	MSMSM0608
800	600	MSMSM0806
800	800	MSMSM0808
1000	600	MSMSM1006
1000	800	MSMSM1008
1200	600	MSMSM1206
1200	800	MSMSM1208



Mounting plates, MSMPN

- Description:** Mounting plate for installation of breakers. Suitable for left and right hand connections.
- Material:** 1.5 mm galvanized steel.
- Pack quantity:** 1 piece with mounting material.
- Requirements:** To be assembled on MSFP, or on MSMSM/MSMSF with MSMPA01.

Plain

H	W	Mounting plate dimensions		Item no.
		h	w	
50	600	46	470	MSMPN0506
50	800	46	670	MSMPN0508
100	600	96	470	MSMPN1006
100	800	96	670	MSMPN1008
150	600	146	470	MSMPN1506
150	800	146	670	MSMPN1508
200	600	196	470	MSMPN2006
200	800	196	670	MSMPN2008
250	600	246	470	MSMPN2506
250	800	246	670	MSMPN2508
300	600	296	470	MSMPN3006
300	800	296	670	MSMPN3008
400	600	396	470	MSMPN4006
400	800	396	670	MSMPN4008
450	600	446	470	MSMPN4506
450	600	446	670	MSMPN4508
500	600	496	470	MSMPN5006
500	800	496	670	MSMPN5008
600	600	596	470	MSMPN6006
600	800	596	670	MSMPN6008
600	1000	596	870	MSMPN6010

Horizontal opening

H	W	Mounting plate dimensions		Item no.
		h	w	
100	600	96	470	MSMPN1006H
100	800	96	670	MSMPN1008H

Vertical opening

H	W	Mounting plate dimensions		Item no.
		h	w	
150	600	146	470	MSMPN1506V
150	800	146	670	MSMPN1508V
200	600	196	470	MSMPN2006V
200	800	196	670	MSMPN2008V
250	600	246	470	MSMPN2506V
250	800	246	670	MSMPN2508V
300	600	296	470	MSMPN3006V
300	800	296	670	MSMPN3008V
400	600	396	470	MSMPN4006V
400	800	396	670	MSMPN4008V
450	600	446	470	MSMPN4506V
450	800	446	670	MSMPN4508V
500	600	496	470	MSMPN5006V
500	800	496	670	MSMPN5008V
600	600	596	470	MSMPN6006V
600	800	596	670	MSMPN6008V



Wall Mounted Enclosures

Accessories | Modular system

DIN rails, MSDR

Description: Cut to size DIN rail ready to be installed. The simplified panel design makes procurement easier and reduces assembly time.

Material: Galvanized steel.

Pack quantity: 5 pieces.

Requirements: To be assembled on MSFP with the holders MSADP or with the adjustable brackets MSMPA01, or on MSMSM / MSMSF with the fixed brackets MSMPF01 or with the adjustable brackets MSMPA01.

For enclosure	
W	Item no.
600	MSDR0600
800	MSDR0800



Fixed brackets, MSMPF01

Description: A bracket to mount a DIN-rail to allow for mounting of modular components in the modular system profiles. Cost effective solution for panelbuilders.

Material: 2.5 mm galvanized steel.

Pack quantity: 1 pair.

Requirements: To be assembled on MSMSM / MSMSF

Item no.
MSMPF01



Adjustable brackets, MSMPA01

Description: A bracket to mount a DIN-rail or mounting plate which is adjustable in depth to allow for mounting of components in different sizes in the desired position. Panel builders can hold less stock and engineer with fewer item numbers thanks to the adjustable depth design.

Material: 2.5 mm galvanized steel, zamak.

Pack quantity: 2 pairs.

Requirements: To be assembled on MSFP, or on MSMSM/MSMSF.

Item no.
MSMPA01



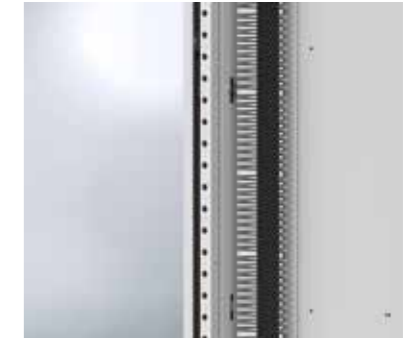
Finger guards, MSFG

Description: Accessory to avoid the access to the live parts through the cable openings in the internal side panels and mounting plates.

Material: ABS.

Delivery: 2 pieces, 93 mm.

Item no.
MSFG2000



Slotted front panels, MSMCP

Description: Slotted front panel for modular assemblies. Provided with one DIN rail per row for modular components. It has a top and bottom bending to provide extra rigidity.

Material: 1.25 mm steel.

Finish: RAL 7035 structured powder coating.

Delivery: 1 piece with mounting material.

Requirements: To be assembled on MSFCP, or on MSMSM / MSMSF.

H	W	No. of rows	DIN modules	Item no.
150	600	1	25	MSMCP1506R5
150	800	1	36	MSMCP1508R5
200	600	1	25	MSMCP2006R5
200	800	1	36	MSMCP2008R5
300	600	1	25	MSMCP3006-1R5
300	800	1	36	MSMCP3008-1R5
300	600	2	50	MSMCP3006-2R5
300	800	2	72	MSMCP3008-2R5
450	600	3	75	MSMCP4506R5
450	800	3	108	MSMCP4508R5
600	600	4	100	MSMCP6006R5
600	800	4	144	MSMCP6008R5



Blanking plates for DIN slots, TB13G

Description: Blanking plate to cover the unused space in the DIN slots. Can be divided per half a module.

Material: Plastic.

Finish: RAL 7035.

Pack quantity: 10 pieces of blanking plates 13 mod. Overall length 234 mm.

Item no.
TB13G



Wall Mounted Enclosures

Accessories | Modular system

Plain front panels, MSMBP

- Description:** Plain front panel for modular assemblies. It has a top and bottom bending to provide extra rigidity.
- Material:** 1.25 mm steel.
- Finish:** RAL 7035 structured powder coating.
- Delivery:** 1 piece with mounting material.
- Requirements:** To be assembled on MSFCP or on MSMSM / MSMSF.

H	W	Front panel dimensions		Item no.
		h	w	
50	600	49	503	MSMBP0506R5
50	800	49	703	MSMBP0508R5
100	600	99	503	MSMBP1006R5
100	800	99	703	MSMBP1008R5
150	600	149	503	MSMBP1506R5
150	800	149	703	MSMBP1508R5
200	600	199	503	MSMBP2006R5
200	800	199	703	MSMBP2008R5
250	600	249	503	MSMBP2506R5
250	800	249	703	MSMBP2508R5
300	600	299	503	MSMBP3006R5
300	800	299	703	MSMBP3008R5
400	600	399	503	MSMBP4006R5
400	800	399	703	MSMBP4008R5
450	600	449	503	MSMBP4506R5
450	800	449	703	MSMBP4508R5
500	600	499	503	MSMBP5006R5
500	800	499	703	MSMBP5008R5
600	600	599	503	MSMBP6006R5
600	800	599	703	MSMBP6008R5





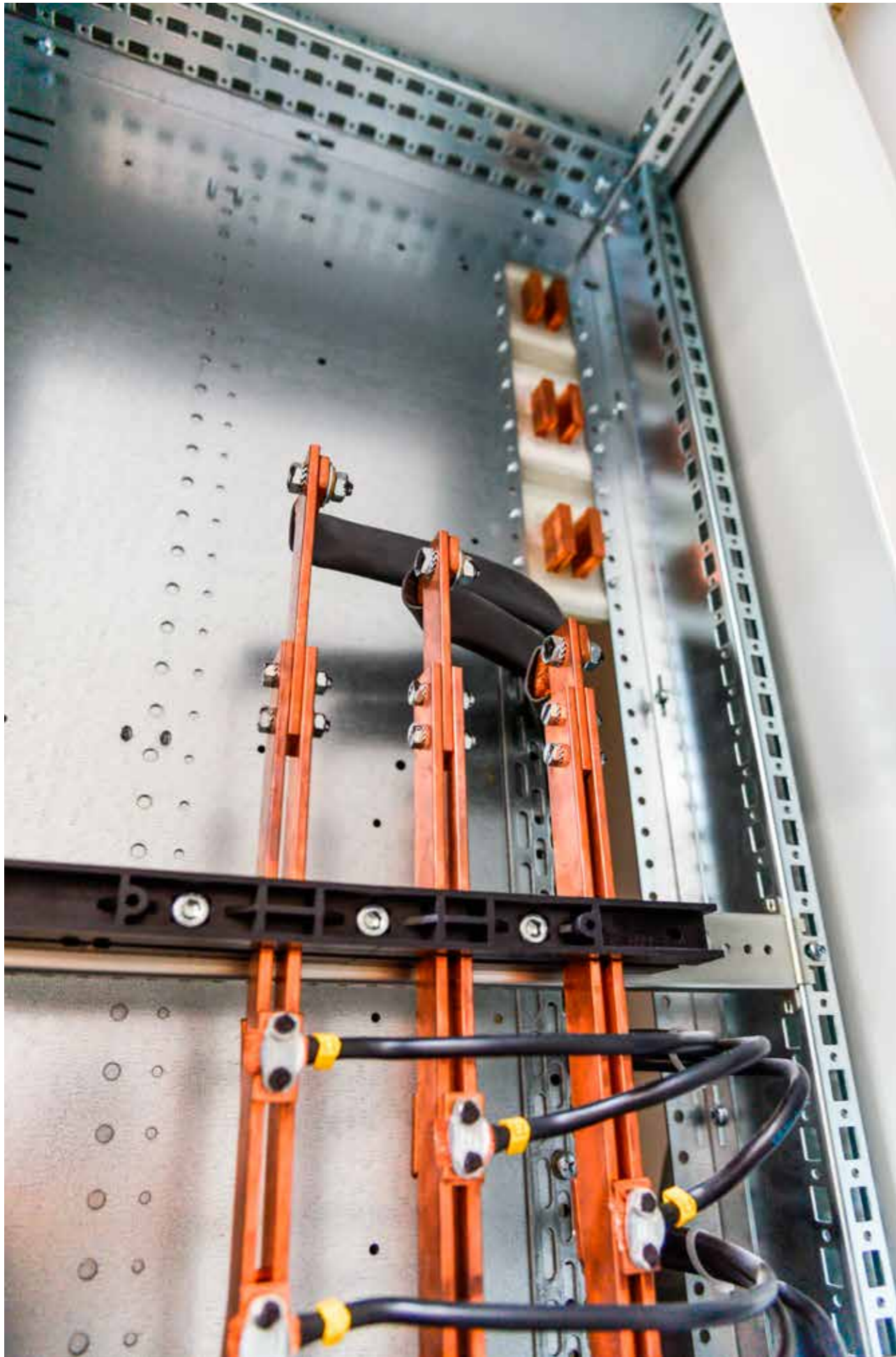
Floor Standing Enclosures

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Floor Standing Enclosures

The design of floor standing enclosures within the nVent HOFFMAN Power System range, referred to as EPS, is based on the existing mild steel floor standing enclosure MKS and MCS, and allows for building Power Distribution and Automation Control panels.

These mild steel enclosures are epoxy polyester coated in light grey, RAL 7035.

The Enclosures in the nVent HOFFMAN Power System range are equipped with different sections for incoming and outgoing, busbar and cabling. The system allows producing fix or plug-in solutions.

In addition, the floor standing range is certified according to the most relevant international standards, such as UL508A, CSA 22.2, GOST and KEMA KEUR. nVent HOFFMAN Power System is tested by SEMKO, according to the new standard EN 61439. Customers can be assured that the enclosures are thoroughly tested and meet all safety regulations.

nVent HOFFMAN Power System Segregation

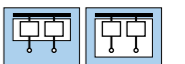
With the nVent HOFFMAN Power System different levels of segregation can be achieved in accordance with EN 61439.

Form 1: There are not any internal separation.



Form 2: Separation of busbars from the functional units:

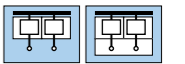
Form 2a: Terminals for external conductors not separated from busbars;



Form 2b: Terminals for external conductors separated from busbars.

Form 3: The Form 2 separations, with additional separation of all functional units from one another and separation of terminals for external conductors from the functional units:

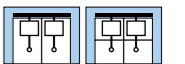
Form 3a: Terminals for external conductors not separated from busbars;



Form 3b: Terminals for external conductors separated from busbars.

Form 4: The Form 2 separations, additional separation of terminals for external conductors from those of any other functional unit and the busbar:

Form 4a: Terminals for external conductors in the same compartment as the associated functional unit;



Form 4b: Terminals for external conductors not in the same compartment as the associated functional unit, but in individual spaces or compartments.

Section possibilities:

Enclosure type	Section possibilities	Section width						External compatibility		Internal compatibility
		200	400	600	800	1000	1200	Complete door	Partial door / Panel system	Front panels
MKSL	Modular system	-	-	x	x	-	-	x	-	x
	Cabling	-	x	-	-	-	-	x	x	-
	Busbar	x	-	-	-	-	-	-	x	-
MCSL	Incoming	-	-	x	x	x	-	x	x	x
	Modular system	-	-	x	x	-	-	x	-	x
	Fix system	-	-	x	x	-	-	x	x	x
	Plug-in system	-	-	x	-	-	-	x	x	-
	Cabling	-	x	x	-	-	-	x	x	-
	Busbar	x	-	-	-	-	-	-	x	-
	Control	-	-	x	x	x	x	x	-	-

Floor Standing Enclosures

Overview

Typical Applications

Building Power Distribution

Industry Power Distribution

Motor Control Centers (MCC)



Floor standing enclosures are ideal for power distribution panels when internal segregation is required. nVent HOFFMAN Power System is available for semi-compact MKSL plus combinable enclosures MCSL, and can be divided into other vertical sections with the standard accessories, maintaining the hole patterns in all sections. Vertical sections can be divided into further sub-sections. These sub-sections can be covered by using panels and doors creating the required configuration met.



Traditional fix system

Power distribution panels which do not require high supply dependability are covered with the traditional fix system. nVent HOFFMAN supplies different enclosures for the main switchgear in a building, using the fix system and internal front panels.

It is possible to use transparent doors, improving the aesthetic and information about panel status. Plain doors are used to cover the cabling space and to install the measurement equipment.



Plug-in solution

In switchgear panels in which the dependability is important but the cost must be taken in consideration, the nVent HOFFMAN Plug-in solution is the perfect choice. In this application the plug-in compartments can be populated with different type of components based on user requirements.



Compatible system

nVent HOFFMAN Power System floor standing enclosures and general floor standing enclosures are based on the same platform design making all accessories compatible.



Cost effective solution

nVent HOFFMAN Power System allows different levels of internal segregation (Form 1 up to Form 4) allowing for cost effective design of a wide variety of power distribution solutions.



According to EN 61439-1

nVent HOFFMAN Power System has been tested by SEMKO, in accordance with the new standard EN 61439. This means that the customer can manufacture fully type-tested low voltage switchgear and control gear.



Flexible system

nVent HOFFMAN Power System allows for different configurations with different vertical sections (incoming and outgoing, busbar and cabling) to meet all customer requirements.

Floor Standing Enclosures

Compact enclosure | MKSL

IP 44, 55, 66 | TYPE 4, 12,13 | IK 10



Material:

Body: 1.35 mm painted steel. Rear and roof panels: 1.5 mm painted steel.

Body:

Four times folded and seam-welded frame. Integrated double row hole pattern.

Rear panel:

Fitted by M6 torx screws. Standard facilities for rear door mounting.

Roof panel:

Removable.

Earthing:

All panels are earthed through their fittings and are equipped with a separate earthing stud.

Finish:

RAL 7035 structured powder coating.

Protection:

IP 44, 55, 66 | TYPE 4, 12, 13 | IK 10, depending of the doors configuration

Delivery:

Body with rear panel and roof panel. Delivery also includes earthing bolts. Delivered on a pallet with identical width of the enclosure. All packing material is recyclable.

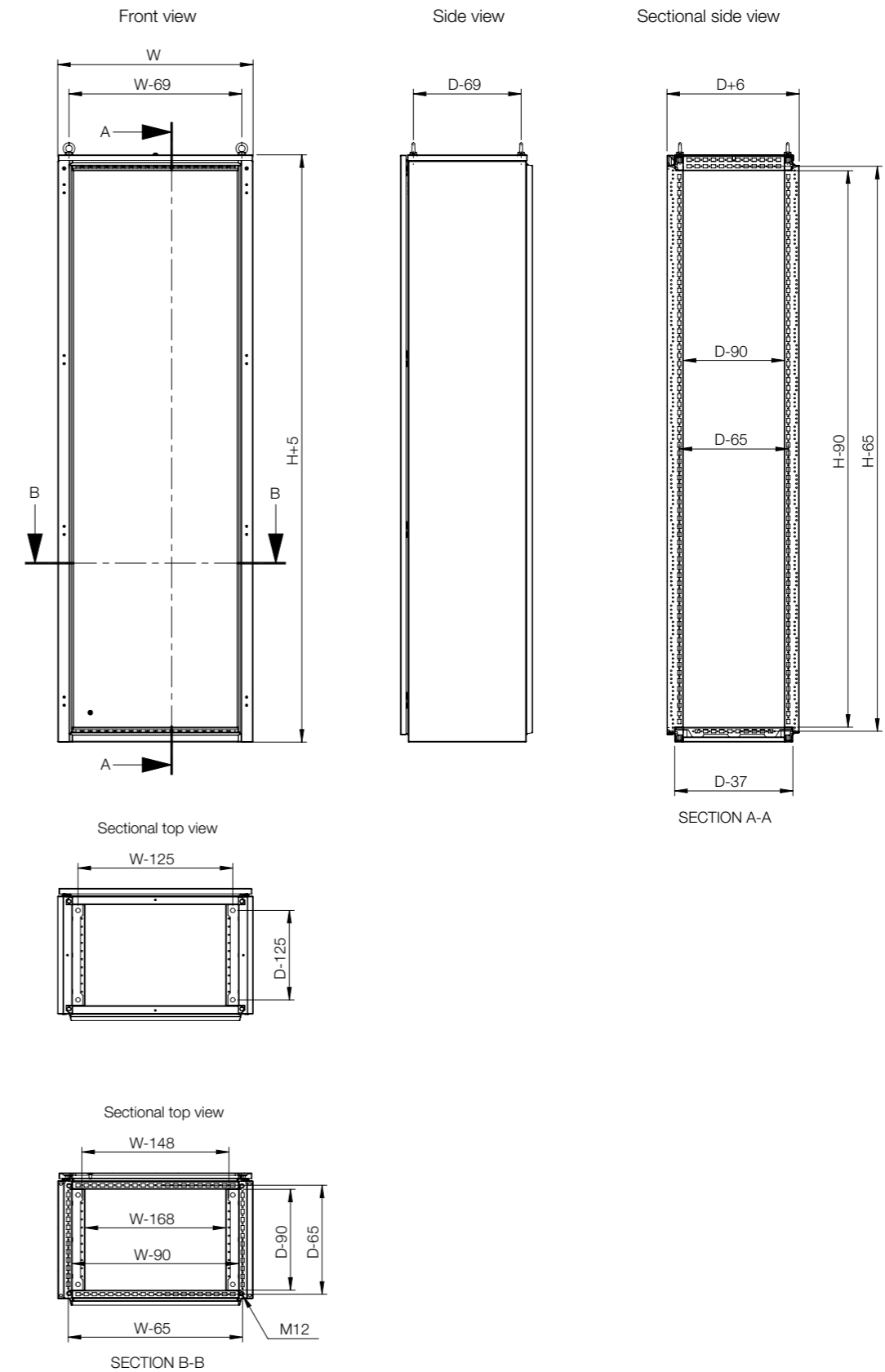
Dimensional table | MKSL

IP 44, 55, 66 | TYPE 4, 12,13 | IK 10

Without mounting plate

Enclosure dimensions				Item no.
H	W	D		
1800	600	400		MKSL18064R5
1800	800	400		MKSL18084R5
1800	1000	400		MKSL18104R5
1800	1200	400		MKSL18124R5
2000	600	400		MKSL20064R5
2000	800	400		MKSL20084R5
2000	1000	400		MKSL20104R5
2000	1200	400		MKSL20124R5

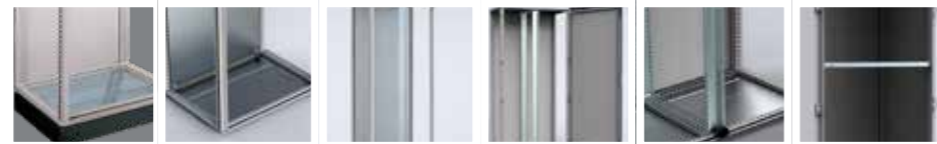
Dimensional drawing | MKSL



Accessories selection matrix I MKSL



Enclosure				Fixing				
	H	W	D	Front/rear plinths (100 mm height)	Side plinths (100 mm height)	Front/rear plinths (200 mm height)	Side plinths (200 mm height)	Front/rear ventilated plinths (100 mm height)
MKSL18064R5	1800	600	400	PF1060	PS1040	PF2060	PS2040	PV1060
MKSL18084R5	1800	800	400	PF1080	PS1040	PF2080	PS2040	PV1080
MKSL18104R5	1800	1000	400	PF1100	PS1040	PF2100	PS2040	PV1100
MKSL18124R5	1800	1200	400	PF1120	PS1040	PF2120	PS2040	PV1120
MKSL20064R5	2000	600	400	PF1060	PS1040	PF2060	PS2040	PV1060
MKSL20084R5	2000	800	400	PF1080	PS1040	PF2080	PS2040	PV1080
MKSL20104R5	2000	1000	400	PF1100	PS1040	PF2100	PS2040	PV1100
MKSL20124R5	2000	1200	400	PF1120	PS1040	PF2120	PS2040	PV1120



Enclosure				Cable		Divider			
	H	W	D	Plain bottom plates	Ventilated bottom plates	Vertical dividers	Vertical divider bars	Depth divider bars	Horizontal dividers
MKSL18064R5	1800	600	400	CBP064	CVB0604	CDV1800R5	VB1800	VBD400	CDHK600
MKSL18084R5	1800	800	400	CBP084	CVB0804	CDV1800R5	VB1800	VBD400	CDHK800
MKSL18104R5	1800	1000	400	CBP104	CVB1004	CDV1800R5	VB1800	VBD400	-
MKSL18124R5	1800	1200	400	CBP124	-	CDV1800R5	VB1800	VBD400	-
MKSL20064R5	2000	600	400	CBP064	CVB0604	CDV2000R5	VB2000	VBD400	CDHK600
MKSL20084R5	2000	800	400	CBP084	CVB0804	CDV2000R5	VB2000	VBD400	CDHK800
MKSL20104R5	2000	1000	400	CBP104	CVB1004	CDV2000R5	VB2000	VBD400	-
MKSL20124R5	2000	1200	400	CBP124	-	CDV2000R5	VB2000	VBD400	-

Accessories selection matrix I MKSL



Enclosure				Doors		Thermal
	H	W	D	Plain doors *	Glazed doors *	Ventilated roofs
MKSL18064R5	1800	600	400	DN1806R5	DNG1806R5	CVR0604R5
MKSL18084R5	1800	800	400	DN1808R5	DNG1808R5	CVR0804R5
MKSL18104R5	1800	1000	400	-	-	CVR1004R5
MKSL18124R5	1800	1200	400	-	-	CVR1204R5
MKSL20064R5	2000	600	400	DN2006R5	DNG2006R5	CVR0604R5
MKSL20084R5	2000	800	400	DN2008R5	DNG2008R5	CVR0804R5
MKSL20104R5	2000	1000	400	-	-	CVR1004R5
MKSL20124R5	2000	1200	400	-	-	CVR1204R5

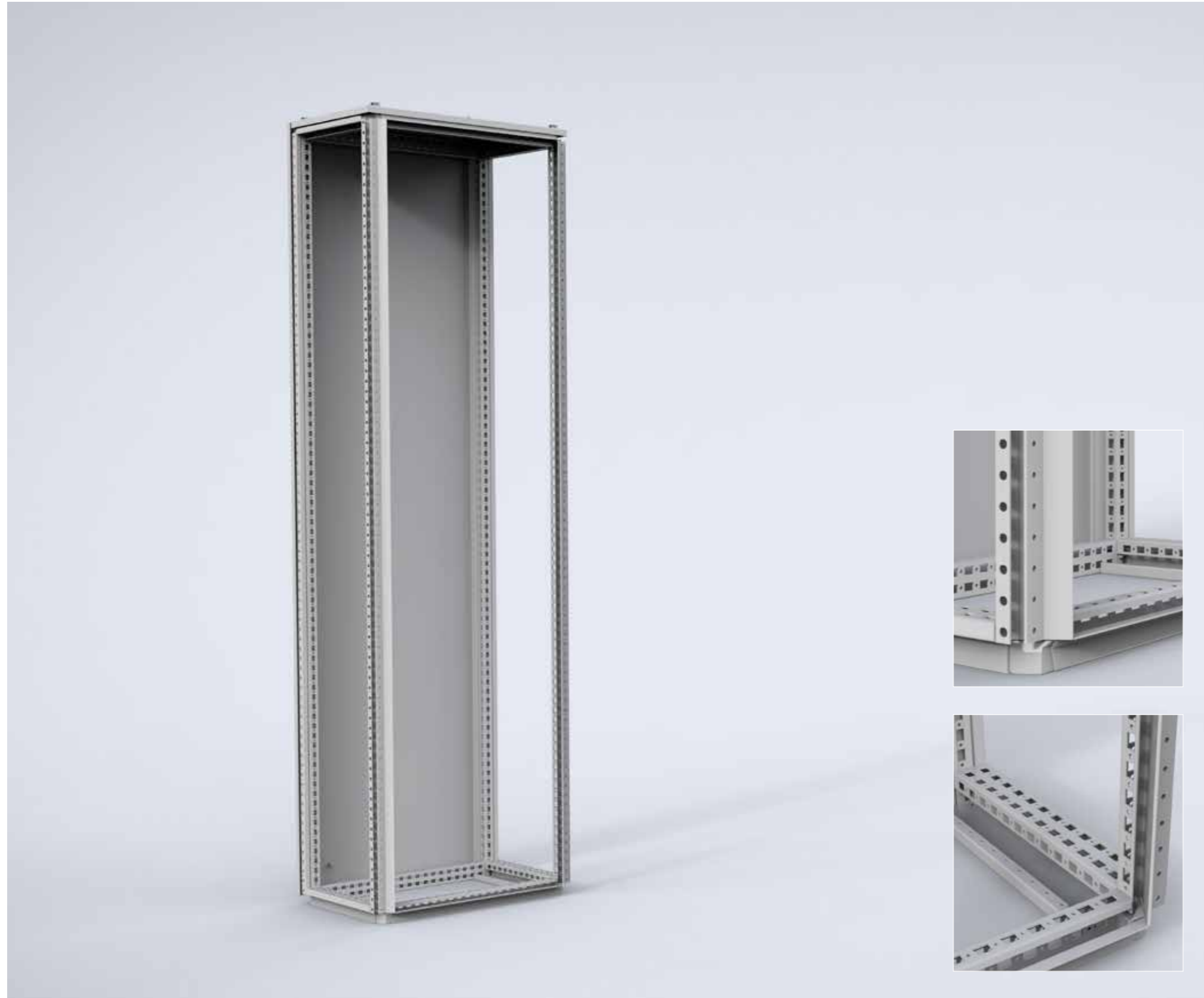
* DNMK is required when a door will be installed



Floor Standing Enclosures

Combinable enclosure | MCSL

IP 44, 55, 56 | TYPE 4, 12, 13 | IK 10



Material:

Frame: 1.5 painted steel. Rear and roof panels: 1.5 mm painted steel.

Frame:

Seam welded reversed open profiles with 25 mm hole pattern according to DIN 43660. Including integrated external hole pattern.

Rear panel:

Fitted by M6 torx screws. Standard facilities for rear door mounting.

Roof panel:

Removable.

Earthing:

All panels are earthed through their fittings and are equipped with a separate earthing stud.

Finish:

RAL 7035 structured powder coating.

Protection:

IP 44, 55, 56 | TYPE 4, 12, 13 | IK 10, depending of doors configuration.

Mounting requirement:

Standard delivery ready for combined installation. For stand-alone installation add side panels.

Delivery:

Frame, rear and roof panel. Delivery also includes earthing bolts. Delivered on a pallet with identical width of the enclosure to allow suiting without removal. All packing material is recyclable.

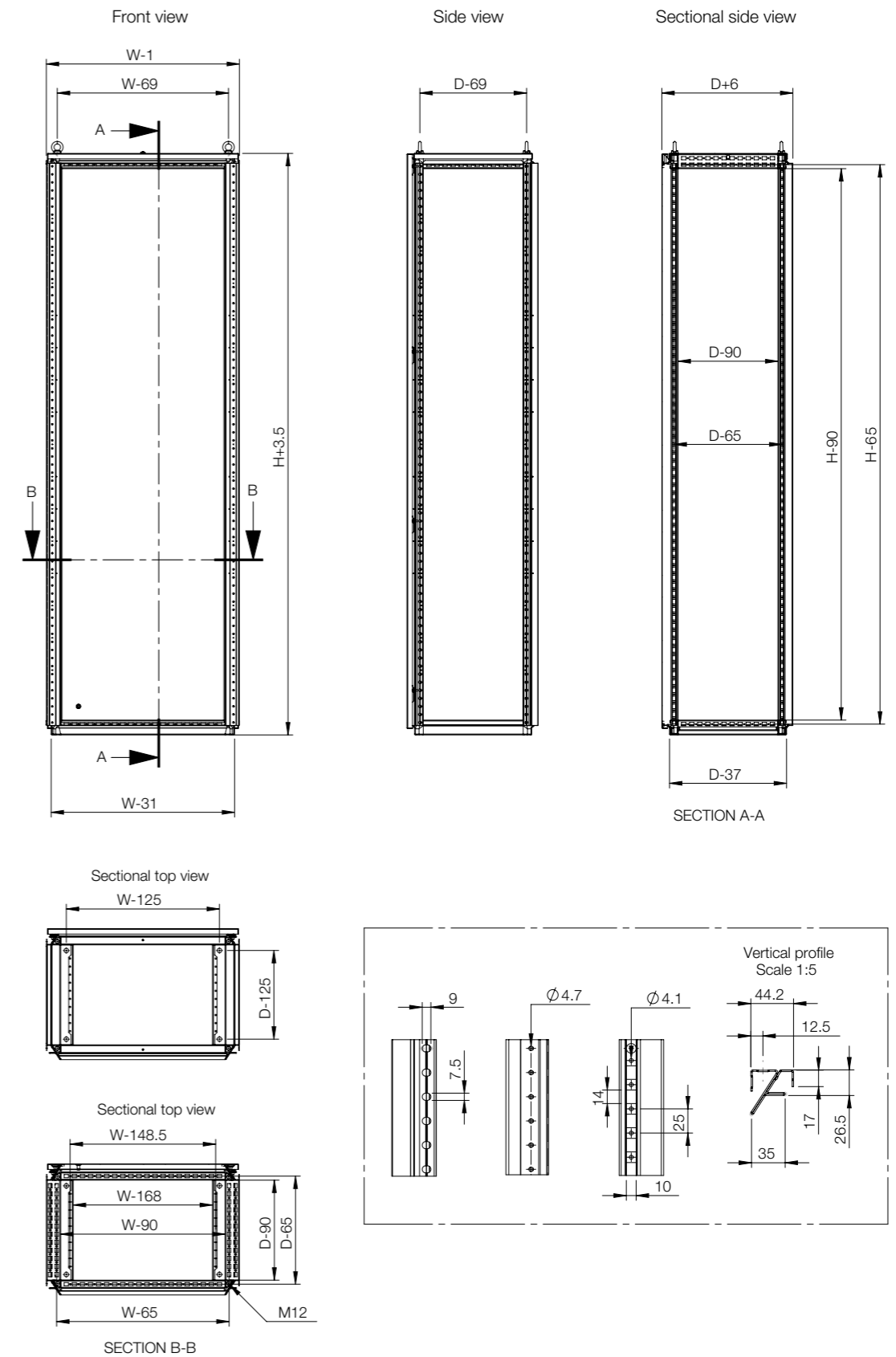
Dimensional table | MCSL

IP 44, 55, 56 | TYPE 4, 12, 13 | IK 10

Without mounting plate

Enclosure dimensions			
H	W	D	Item no.
1800	400	400	MCSL18044R5
1800	400	600	MCSL18046R5
1800	400	800	MCSL18048R5
1800	600	400	MCSL18064R5
1800	600	600	MCSL18066R5
1800	600	800	MCSL18068R5
1800	800	400	MCSL18084R5
1800	800	600	MCSL18086R5
1800	800	800	MCSL18088R5
1800	1000	400	MCSL18104R5
1800	1000	600	MCSL18106R5
1800	1000	800	MCSL18108R5
1800	1200	400	MCSL18124R5
1800	1200	600	MCSL18126R5
1800	1200	800	MCSL18128R5
2000	400	400	MCSL20044R5
2000	400	600	MCSL20046R5
2000	400	800	MCSL20048R5
2000	600	400	MCSL20064R5
2000	600	600	MCSL20066R5
2000	600	800	MCSL20068R5
2000	800	400	MCSL20084R5
2000	800	600	MCSL20086R5
2000	800	800	MCSL20088R5
2000	1000	400	MCSL20104R5
2000	1000	600	MCSL20106R5
2000	1000	800	MCSL20108R5
2000	1200	400	MCSL20124R5
2000	1200	600	MCSL20126R5
2000	1200	800	MCSL20128R5
2200	400	600	MCSL22046R5
2200	400	800	MCSL22048R5
2200	600	600	MCSL22066R5
2200	600	800	MCSL22068R5
2200	800	600	MCSL22086R5
2200	800	800	MCSL22088R5
2200	1000	600	MCSL22106R5
2200	1000	800	MCSL22108R5
2200	1200	600	MCSL22126R5
2200	1200	800	MCSL22128R5

Dimensional drawing | MCSL



Accessories selection matrix I MCSL



Enclosure	Fixing							
	H	W	D	Front/rear plinths (100 mm height)	Side plinths (100 mm height)	Front/rear plinths (200 mm height)	Side plinths (200 mm height)	Front/rear ventilated plinths (100 mm height)
MCSL18044R5	1800	400	400	PF1040	PS1040	PF2040	PS2040	PV1040
MCSL18046R5	1800	400	600	PF1040	PS1060	PF2040	PS2060	PV1040
MCSL18048R5	1800	400	800	PF1040	PS1080	PF2040	PS2080	PV1040
MCSL18064R5	1800	600	400	PF1060	PS1040	PF2060	PS2040	PV1060
MCSL18066R5	1800	600	600	PF1060	PS1060	PF2060	PS2060	PV1060
MCSL18068R5	1800	600	800	PF1060	PS1080	PF2060	PS2080	PV1060
MCSL18084R5	1800	800	400	PF1080	PS1040	PF2080	PS2040	PV1080
MCSL18086R5	1800	800	600	PF1080	PS1060	PF2080	PS2060	PV1080
MCSL18088R5	1800	800	800	PF1080	PS1080	PF2080	PS2080	PV1080
MCSL18104R5	1800	1000	400	PF1100	PS1040	PF2100	PS2040	PV1100
MCSL18106R5	1800	1000	600	PF1100	PS1060	PF2100	PS2060	PV1100
MCSL18108R5	1800	1000	800	PF1100	PS1080	PF2100	PS2080	PV1100
MCSL18124R5	1800	1200	400	PF1120	PS1040	PF2120	PS2040	PV1120
MCSL18126R5	1800	1200	600	PF1120	PS1060	PF2120	PS2060	PV1120
MCSL18128R5	1800	1200	800	PF1120	PS1080	PF2120	PS2080	PV1120
MCSL20044R5	2000	400	400	PF1040	PS1040	PF2040	PS2040	PV1040
MCSL20046R5	2000	400	600	PF1040	PS1060	PF2040	PS2060	PV1040
MCSL20048R5	2000	400	800	PF1040	PS1080	PF2040	PS2080	PV1040
MCSL20064R5	2000	600	400	PF1060	PS1040	PF2060	PS2040	PV1060
MCSL20066R5	2000	600	600	PF1060	PS1060	PF2060	PS2060	PV1060
MCSL20068R5	2000	600	800	PF1060	PS1080	PF2060	PS2080	PV1060
MCSL20084R5	2000	800	400	PF1080	PS1040	PF2080	PS2040	PV1080
MCSL20086R5	2000	800	600	PF1080	PS1060	PF2080	PS2060	PV1080
MCSL20088R5	2000	800	800	PF1080	PS1080	PF2080	PS2080	PV1080
MCSL20104R5	2000	1000	400	PF1100	PS1040	PF2100	PS2040	PV1100
MCSL20106R5	2000	1000	600	PF1100	PS1060	PF2100	PS2060	PV1100
MCSL20108R5	2000	1000	800	PF1100	PS1080	PF2100	PS2080	PV1100
MCSL20124R5	2000	1200	400	PF1120	PS1040	PF2120	PS2040	PV1120
MCSL20126R5	2000	1200	600	PF1120	PS1060	PF2120	PS2060	PV1120
MCSL20128R5	2000	1200	800	PF1120	PS1080	PF2120	PS2080	PV1120
MCSL22046R5	2200	400	600	PF1040	PS1060	PF2040	PS2060	PV1040
MCSL22048R5	2200	400	800	PF1040	PS1080	PF2040	PS2080	PV1040
MCSL22066R5	2200	600	600	PF1060	PS1060	PF2060	PS2060	PV1060
MCSL22068R5	2200	600	800	PF1060	PS1080	PF2060	PS2080	PV1060
MCSL22086R5	2200	800	600	PF1080	PS1060	PF2080	PS2060	PV1080
MCSL22088R5	2200	800	800	PF1080	PS1080	PF2080	PS2080	PV1080
MCSL22106R5	2200	1000	600	PF1100	PS1060	PF2100	PS2060	PV1100
MCSL22108R5	2200	1000	800	PF1100	PS1080	PF2100	PS2080	PV1100
MCSL22126R5	2200	1200	600	PF1120	PS1060	PF2120	PS2060	PV1120
MCSL22128R5	2200	1200	800	PF1120	PS1080	PF2120	PS2080	PV1120

Accessories selection matrix I MCSL



Enclosure	Cable							
	H	W	D	Front/rear bottom frames (200 mm height)	Side bottom frames (200 mm height)	Front/rear bottom frames (300 mm height)	Side bottom frames (300 mm height)	
MCSL18044R5	1800	400	400	-	-	-	-	
MCSL18046R5	1800	400	600	PCU2046R5	PCUP206R5	PCU3046R5	PCUP306R5	
MCSL18048R5	1800	400	800	PCU2048R5	PCUP208R5	PCU3048R5	PCUP308R5	
MCSL18064R5	1800	600	400	-	-	-	-	
MCSL18066R5	1800	600	600	PCU2066R5	PCUP206R5	PCU3066R5	PCUP306R5	
MCSL18068R5	1800	600	800	PCU2068R5	PCUP208R5	PCU3068R5	PCUP308R5	
MCSL18084R5	1800	800	400	-	-	-	-	
MCSL18086R5	1800	800	600	PCU2086R5	PCUP206R5	PCU3086R5	PCUP306R5	
MCSL18088R5	1800	800	800	PCU2088R5	PCUP208R5	PCU3088R5	PCUP308R5	
MCSL18104R5	1800	1000	400	-	-	-	-	
MCSL18106R5	1800	1000	600	PCU2106R5	PCUP206R5	PCU3106R5	PCUP306R5	
MCSL18108R5	1800	1000	800	PCU2108R5	PCUP208R5	PCU3108R5	PCUP308R5	
MCSL18124R5	1800	1200	400	-	-	-	-	
MCSL18126R5	1800	1200	600	PCU2126R5	PCUP206R5	PCU3126R5	PCUP306R5	
MCSL18128R5	1800	1200	800	PCU2128R5	PCUP208R5	PCU3128R5	PCUP308R5	
MCSL20044R5	2000	400	400	-	-	-	-	
MCSL20046R5	2000	400	600	PCU2046R5	PCUP206R5	PCU3046R5	PCUP306R5	
MCSL20048R5	2000	400	800	PCU2048R5	PCUP208R5	PCU3048R5	PCUP308R5	
MCSL20064R5	2000	600	400	-	-	-	-	
MCSL20066R5	2000	600	600	PCU2066R5	PCUP206R5	PCU3066R5	PCUP306R5	
MCSL20068R5	2000	600	800	PCU2068R5	PCUP208R5	PCU3068R5	PCUP308R5	
MCSL20084R5	2000	800	400	-	-	-	-	
MCSL20086R5	2000	800	600	PCU2086R5	PCUP206R5	PCU3086R5	PCUP306R5	
MCSL20088R5	2000	800	800	PCU2088R5	PCUP208R5	PCU3088R5	PCUP308R5	
MCSL20104R5	2000	1000	400	-	-	-	-	
MCSL20106R5	2000	1000	600	PCU2106R5	PCUP206R5	PCU3106R5	PCUP306R5	
MCSL20108R5	2000	1000	800	PCU2108R5	PCUP208R5	PCU3108R5	PCUP308R5	
MCSL20124R5	2000	1200	400	-	-	-	-	
MCSL20126R5	2000	1200	600	PCU2126R5	PCUP206R5	PCU3126R5	PCUP306R5	
MCSL20128R5	2000	1200	800	PCU2128R5	PCUP208R5	PCU3128R5	PCUP308R5	
MCSL22046R5	2200	400	600	PCU2046R5	PCUP206R5	PCU3046R5	PCUP306R5	
MCSL22048R5	2200	400	800	PCU2048R5	PCUP208R5	PCU3048R5	PCUP308R5	
MCSL22066R5	2200	600	600	PCU2066R5	PCUP206R5	PCU3066R5	PCUP306R5	
MCSL22068R5	2200	600	800	PCU2068R5	PCUP208R5	PCU3068R5	PCUP308R5	
MCSL22086R5	2200	800	600	PCU2086R5	PCUP206R5	PCU3086R5	PCUP306R5	
MCSL22088R5	2200	800	800	PCU2088R5	PCUP208R5	PCU3088R5	PCUP308R5	
MCSL22106R5	2200	1000	600	PCU2106R5	PCUP206R5	PCU3106R5	PCUP306R5	
MCSL22108R5	2200	1000	800	PCU2108R5	PCUP208R5	PCU3108R5	PCUP308R5	
MCSL22126R5	2200	1200	600	PCU2126R5	PCUP206R5	PCU3126R5	PCUP306R5	
MCSL22128R5	2200	1200	800	PCU2128R5	PCUP208R5	PCU3128R5	PCUP308R5	

Accessories selection matrix I MCSL



Enclosure	Cable								
	H	W	D	Front/rear top frames (200 mm height)	Side top frames (200 mm height)	Front/rear top frames (300 mm height)	Side top frames (300 mm height)	Plain bottom plates	Ventilated bottom plates
MCSL18044R5	1800	400	400	-	-	-	-	CBP044	-
MCSL18046R5	1800	400	600	MCU2046R5	MCUP206R5	MCU3046R5	MCUP306R5	CBP046	-
MCSL18048R5	1800	400	800	MCU2048R5	MCUP208R5	MCU3048R5	MCUP308R5	CBP048	-
MCSL18064R5	1800	600	400	-	-	-	-	CBP064	CVB0604
MCSL18066R5	1800	600	600	MCU2066R5	MCUP206R5	MCU3066R5	MCUP306R5	CBP066	CVB0606
MCSL18068R5	1800	600	800	MCU2068R5	MCUP208R5	MCU3068R5	MCUP308R5	CBP068	CVB0608
MCSL18084R5	1800	800	400	-	-	-	-	CBP084	CVB0804
MCSL18086R5	1800	800	600	MCU2086R5	MCUP206R5	MCU3086R5	MCUP306R5	CBP086	CVB0806
MCSL18088R5	1800	800	800	MCU2088R5	MCUP208R5	MCU3088R5	MCUP308R5	CBP088	CVB0808
MCSL18104R5	1800	1000	400	-	-	-	-	CBP104	CVB1004
MCSL18106R5	1800	1000	600	MCU2106R5	MCUP206R5	MCU3106R5	MCUP306R5	CBP106	CVB1006
MCSL18108R5	1800	1000	800	MCU2108R5	MCUP208R5	MCU3108R5	MCUP308R5	CBP108	CVB1008
MCSL18124R5	1800	1200	400	-	-	-	-	CBP124	-
MCSL18126R5	1800	1200	600	MCU2126R5	MCUP206R5	MCU3126R5	MCUP306R5	CBP126	-
MCSL18128R5	1800	1200	800	MCU2128R5	MCUP208R5	MCU3128R5	MCUP308R5	CBP128	-
MCSL20044R5	2000	400	400	-	-	-	-	CBP044	-
MCSL20046R5	2000	400	600	MCU2046R5	MCUP206R5	MCU3046R5	MCUP306R5	CBP046	-
MCSL20048R5	2000	400	800	MCU2048R5	MCUP208R5	MCU3048R5	MCUP308R5	CBP048	-
MCSL20064R5	2000	600	400	-	-	-	-	CBP064	CVB0604
MCSL20066R5	2000	600	600	MCU2066R5	MCUP206R5	MCU3066R5	MCUP306R5	CBP066	CVB0606
MCSL20068R5	2000	600	800	MCU2068R5	MCUP208R5	MCU3068R5	MCUP308R5	CBP068	CVB0608
MCSL20084R5	2000	800	400	-	-	-	-	CBP084	CVB0804
MCSL20086R5	2000	800	600	MCU2086R5	MCUP206R5	MCU3086R5	MCUP306R5	CBP086	CVB0806
MCSL20088R5	2000	800	800	MCU2088R5	MCUP208R5	MCU3088R5	MCUP308R5	CBP088	CVB0808
MCSL20104R5	2000	1000	400	-	-	-	-	CBP104	CVB1004
MCSL20106R5	2000	1000	600	MCU2106R5	MCUP206R5	MCU3106R5	MCUP306R5	CBP106	CVB1006
MCSL20108R5	2000	1000	800	MCU2108R5	MCUP208R5	MCU3108R5	MCUP308R5	CBP108	CVB1008
MCSL20124R5	2000	1200	400	-	-	-	-	CBP124	-
MCSL20126R5	2000	1200	600	MCU2126R5	MCUP206R5	MCU3126R5	MCUP306R5	CBP126	-
MCSL20128R5	2000	1200	800	MCU2128R5	MCUP208R5	MCU3128R5	MCUP308R5	CBP128	-
MCSL22046R5	2200	400	600	MCU2046R5	MCUP206R5	MCU3046R5	MCUP306R5	CBP046	-
MCSL22048R5	2200	400	800	MCU2048R5	MCUP208R5	MCU3048R5	MCUP308R5	CBP048	-
MCSL22066R5	2200	600	600	MCU2066R5	MCUP206R5	MCU3066R5	MCUP306R5	CBP066	CVB0606
MCSL22068R5	2200	600	800	MCU2068R5	MCUP208R5	MCU3068R5	MCUP308R5	CBP068	CVB0608
MCSL22086R5	2200	800	600	MCU2086R5	MCUP206R5	MCU3086R5	MCUP306R5	CBP086	CVB0806
MCSL22088R5	2200	800	800	MCU2088R5	MCUP208R5	MCU3088R5	MCUP308R5	CBP088	CVB0808
MCSL22106R5	2200	1000	600	MCU2106R5	MCUP206R5	MCU3106R5	MCUP306R5	CBP106	CVB1006
MCSL22108R5	2200	1000	800	MCU2108R5	MCUP208R5	MCU3108R5	MCUP308R5	CBP108	CVB1008
MCSL22126R5	2200	1200	600	MCU2126R5	MCUP206R5	MCU3126R5	MCUP306R5	CBP126	-
MCSL22128R5	2200	1200	800	MCU2128R5	MCUP208R5	MCU3128R5	MCUP308R5	CBP128	-

Accessories selection matrix I MCSL



Enclosure	Baying				Divider				
	H	W	D	Side panels	Plinth combining profiles	Vertical dividers	Vertical divider bars	Depth divider bars	Horizontal dividers
MCSL18044R5	1800	400	400	SPM1804R5	PCP04	CDV1800R5	VB1800	VBD400	CDH400
MCSL18046R5	1800	400	600	SPM1806R5	PCP06	CDV1800R5	VB1800	VBD600	CDH400
MCSL18048R5	1800	400	800	SPM1808R5	PCP08	CDV1800R5	VB1800	VBD800	CDH400
MCSL18064R5	1800	600	400	SPM1804R5	PCP04	CDV1800R5	VB1800	VBD400	CDH600
MCSL18066R5	1800	600	600	SPM1806R5	PCP06	CDV1800R5	VB1800	VBD600	CDH600
MCSL18068R5	1800	600	800	SPM1808R5	PCP08	CDV1800R5	VB1800	VBD800	CDH600
MCSL18084R5	1800	800	400	SPM1804R5	PCP04	CDV1800R5	VB1800	VBD400	CDH800
MCSL18086R5	1800	800	600	SPM1806R5	PCP06	CDV1800R5	VB1800	VBD600	CDH800
MCSL18088R5	1800	800	800	SPM1808R5	PCP08	CDV1800R5	VB1800	VBD800	CDH800
MCSL18104R5	1800	1000	400	SPM1804R5	PCP04	CDV1800R5	VB1800	VBD400	-
MCSL18106R5	1800	1000	600	SPM1806R5	PCP06	CDV1800R5	VB1800	VBD600	-
MCSL18108R5	1800	1000	800	SPM1808R5	PCP08	CDV1800R5	VB1800	VBD800	-
MCSL18124R5	1800	1200	400	SPM1804R5	PCP04	CDV1800R5	VB1800	VBD400	-
MCSL18126R5	1800	1200	600	SPM1806R5	PCP06	CDV1800R5	VB1800	VBD600	-
MCSL18128R5	1800	1200	800	SPM1808R5	PCP08	CDV1800R5	VB1800	VBD800	-
MCSL20044R5	2000	400	400	SPM2004R5	PCP04	CDV2000R5	VB2000	VBD400	CDH400
MCSL20046R5	2000	400	600	SPM2006R5	PCP06	CDV2000R5	VB2000	VBD600	CDH400
MCSL20048R5	2000	400	800	SPM2008R5	PCP08	CDV2000R5	VB2000	VBD800	CDH400
MCSL20064R5	2000	600	400	SPM2004R5	PCP04	CDV2000R5	VB2000	VBD400	CDH600
MCSL20066R5	2000	600	600	SPM2006R5	PCP06	CDV2000R5	VB2000	VBD600	CDH600
MCSL20068R5	2000	600	800	SPM2008R5	PCP08	CDV2000R5	VB2000	VBD800	CDH600
MCSL20084R5	2000	800	400	SPM2004R5	PCP04	CDV2000R5	VB2000	VBD400	CDH800
MCSL20086R5	2000	800	600	SPM2006R5	PCP06	CDV2000R5	VB2000	VBD600	CDH800
MCSL20088R5	2000	800	800	SPM2008R5	PCP08	CDV2000R5	VB2000	VBD800	CDH800
MCSL20104R5	2000	1000	400	SPM2004R5	PCP04	CDV2000R5	VB2000	VBD400	-
MCSL20106R5	2000	1000	600	SPM2006R5	PCP06	CDV2000R5	VB2000	VBD600	-
MCSL20108R5	2000	1000	800	SPM2008R5	PCP08	CDV2000R5	VB2000	VBD800	-
MCSL20124R5	2000	1200	400	SPM2004R5	PCP04	CDV2000R5	VB2000	VBD400	-
MCSL20126R5	2000	1200	600	SPM2006R5	PCP06	CDV2000R5	VB2000	VBD600	-
MCSL20128R5	2000	1200	800	SPM2008R5	PCP08	CDV2000R5	VB2000	VBD800	-
MCSL22046R5	2200	400	600	SPM2206R5	PCP06	CDV2200R5	VB2200	VBD600	CDH400
MCSL22048R5	2200	400	800	SPM2208R5	PCP08	CDV2200R5	VB2200	VBD800	CDH400
MCSL22066R5	2200	600	600	SPM2206R5	PCP06	CDV2200R5	VB2200	VBD600	CDH600
MCSL22068R5	2200	600	800	SPM2208R5	PCP08	CDV2200R5	VB2200	VBD800	CDH600
MCSL22086R5	2200	800	600	SPM2206R5	PCP06	CDV2200R5	VB2200	VBD600	CDH800
MCSL22088R5	2200	800	800	SPM2208R5	PCP08	CDV2200R5	VB2200	VBD800	CDH800
MCSL22106R5	2200	1000	600	SPM2206R5	PCP06	CDV2200R5	VB2200	VBD600	-
MCSL22108R5	2200	1000	800	SPM2208R5	PCP08	CDV2200R5	VB2200	VBD800	-
MCSL22126R5	2200	1200	600	SPM2206R5	PCP06	CDV2200R5	VB2200	VBD600	-
MCSL22128R5	2200	1200	800	SPM2208R5	PCP08	CDV2200R5	VB2200	VBD800	-



Accessories selection matrix I MCSL



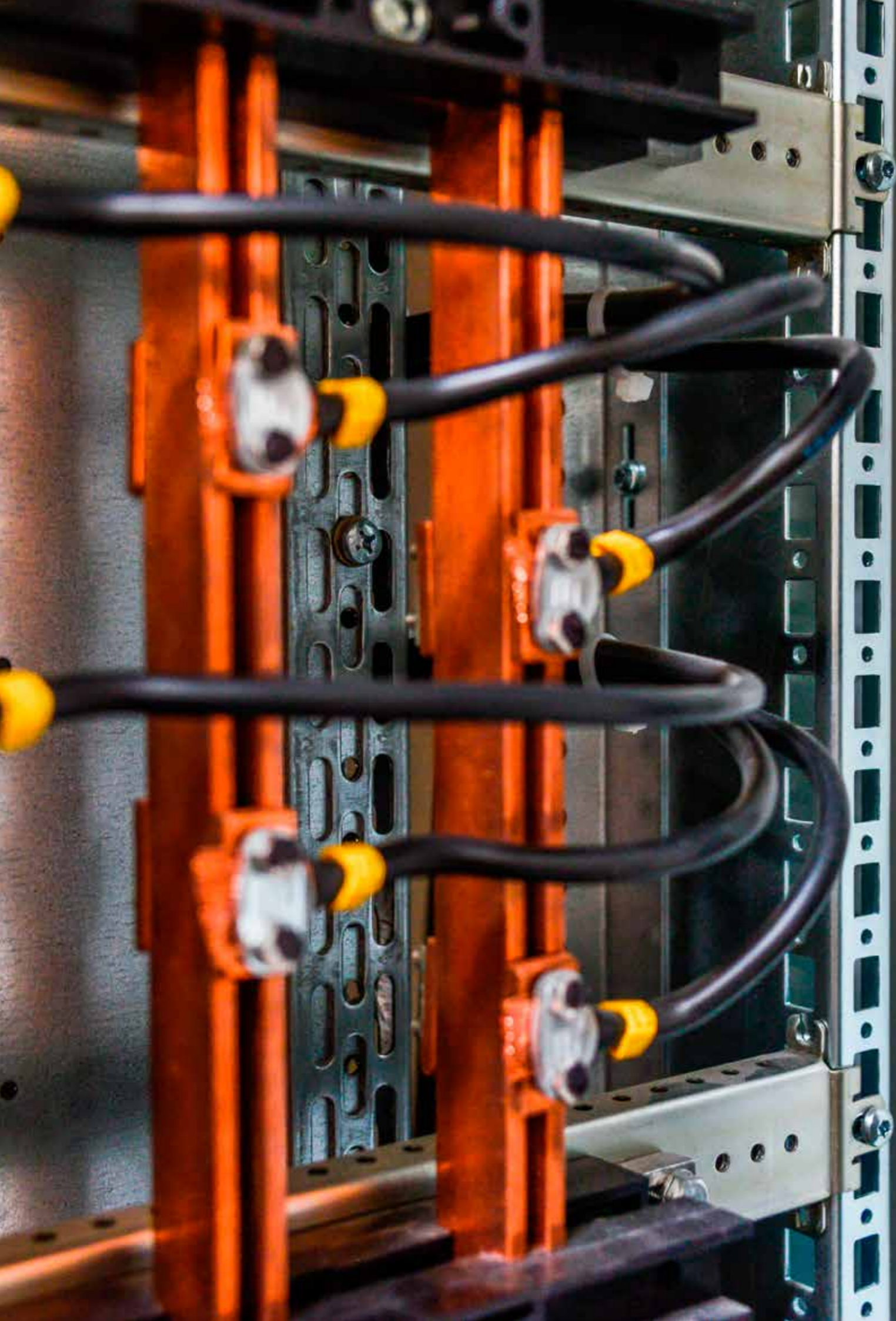
Enclosure				Internal segregation			
	H	W	D	For incoming/outgoing sections	For incoming/outgoing sections with front opening	For cables section	Ventilated shelves
MCSL18044R5	1800	400	400	-	-	-	-
MCSL18046R5	1800	400	600	MSPS1806	MSPS1806F	MSPS1803	-
MCSL18048R5	1800	400	800	MSPS1808	MSPS1808F	MSPS1805	-
MCSL18064R5	1800	600	400	-	-	-	-
MCSL18066R5	1800	600	600	MSPS1806	MSPS1806F	MSPS1803	SHC0606
MCSL18068R5	1800	600	800	MSPS1808	MSPS1808F	MSPS1805	SHC0608
MCSL18084R5	1800	800	400	-	-	-	-
MCSL18086R5	1800	800	600	MSPS1806	MSPS1806F	MSPS1803	SHC0806
MCSL18088R5	1800	800	800	MSPS1808	MSPS1808F	MSPS1805	SHC0808
MCSL18104R5	1800	1000	400	-	-	-	-
MCSL18106R5	1800	1000	600	MSPS1806	MSPS1806F	MSPS1803	-
MCSL18108R5	1800	1000	800	MSPS1808	MSPS1808F	MSPS1805	-
MCSL18124R5	1800	1200	400	-	-	-	-
MCSL18126R5	1800	1200	600	MSPS1806	MSPS1806F	MSPS1803	-
MCSL18128R5	1800	1200	800	MSPS1808	MSPS1808F	MSPS1805	-
MCSL20044R5	2000	400	400	-	-	-	-
MCSL20046R5	2000	400	600	MSPS2006	MSPS2006F	MSPS2003	-
MCSL20048R5	2000	400	800	MSPS2008	MSPS2008F	MSPS2005	-
MCSL20064R5	2000	600	400	-	-	-	-
MCSL20066R5	2000	600	600	MSPS2006	MSPS2006F	MSPS2003	SHC0606
MCSL20068R5	2000	600	800	MSPS2008	MSPS2008F	MSPS2005	SHC0608
MCSL20084R5	2000	800	400	-	-	-	-
MCSL20086R5	2000	800	600	MSPS2006	MSPS2006F	MSPS2003	SHC0806
MCSL20088R5	2000	800	800	MSPS2008	MSPS2008F	MSPS2005	SHC0808
MCSL20104R5	2000	1000	400	-	-	-	-
MCSL20106R5	2000	1000	600	MSPS2006	MSPS2006F	MSPS2003	-
MCSL20108R5	2000	1000	800	MSPS2008	MSPS2008F	MSPS2005	-
MCSL20124R5	2000	1200	400	-	-	-	-
MCSL20126R5	2000	1200	600	MSPS2006	MSPS2006F	MSPS2003	-
MCSL20128R5	2000	1200	800	MSPS2008	MSPS2008F	MSPS2005	-
MCSL22046R5	2200	400	600	MSPS2206	MSPS2206F	MSPS2203	-
MCSL22048R5	2200	400	800	MSPS2208	MSPS2208F	MSPS2205	-
MCSL22066R5	2200	600	600	MSPS2206	MSPS2206F	MSPS2203	SHC0606
MCSL22068R5	2200	600	800	MSPS2208	MSPS2208F	MSPS2205	SHC0608
MCSL22086R5	2200	800	600	MSPS2206	MSPS2206F	MSPS2203	SHC0806
MCSL22088R5	2200	800	800	MSPS2208	MSPS2208F	MSPS2205	SHC0808
MCSL22106R5	2200	1000	600	MSPS2206	MSPS2206F	MSPS2203	-
MCSL22108R5	2200	1000	800	MSPS2208	MSPS2208F	MSPS2205	-
MCSL22126R5	2200	1200	600	MSPS2206	MSPS2206F	MSPS2203	-
MCSL22128R5	2200	1200	800	MSPS2208	MSPS2208F	MSPS2205	-

Accessories selection matrix I MCSL



Enclosure				Doors		Thermal
	H	W	D	Plain doors *	Glazed doors *	Ventilated roofs
MCSL18044R5	1800	400	400	DN1804R5	-	-
MCSL18046R5	1800	400	600	DN1804R5	-	-
MCSL18048R5	1800	400	800	DN1804R5	-	-
MCSL18064R5	1800	600	400	DN1806R5	DNG1806R5	CVR0604R5
MCSL18066R5	1800	600	600	DN1806R5	DNG1806R5	CVR0606R5
MCSL18068R5	1800	600	800	DN1806R5	DNG1806R5	CVR0608R5
MCSL18084R5	1800	800	400	DN1808R5	DNG1808R5	CVR0804R5
MCSL18086R5	1800	800	600	DN1808R5	DNG1808R5	CVR0806R5
MCSL18088R5	1800	800	800	DN1808R5	DNG1808R5	CVR0808R5
MCSL18104R5	1800	1000	400	DN1810R5	-	CVR1004R5
MCSL18106R5	1800	1000	600	DN1810R5	-	CVR1006R5
MCSL18108R5	1800	1000	800	DN1810R5	-	CVR1008R5
MCSL18124R5	1800	1200	400	-	-	CVR1204R5
MCSL18126R5	1800	1200	600	-	-	CVR1206R5
MCSL18128R5	1800	1200	800	-	-	CVR1208R5
MCSL20044R5	2000	400	400	DN2004R5	-	-
MCSL20046R5	2000	400	600	DN2004R5	-	-
MCSL20048R5	2000	400	800	DN2004R5	-	-
MCSL20064R5	2000	600	400	DN2006R5	DNG2006R5	CVR0604R5
MCSL20066R5	2000	600	600	DN2006R5	DNG2006R5	CVR0606R5
MCSL20068R5	2000	600	800	DN2006R5	DNG2006R5	CVR0608R5
MCSL20084R5	2000	800	400	DN2008R5	DNG2008R5	CVR0804R5
MCSL20086R5	2000	800	600	DN2008R5	DNG2008R5	CVR0806R5
MCSL20088R5	2000	800	800	DN2008R5	DNG2008R5	CVR0808R5
MCSL20104R5	2000	1000	400	DN2010R5	-	CVR1004R5
MCSL20106R5	2000	1000	600	DN2010R5	-	CVR1006R5
MCSL20108R5	2000	1000	800	DN2010R5	-	CVR1008R5
MCSL20124R5	2000	1200	400	-	-	CVR1204R5
MCSL20126R5	2000	1200	600	-	-	CVR1206R5
MCSL20128R5	2000	1200	800	-	-	CVR1208R5
MCSL22046R5	2200	400	600	DN2204R5	-	-
MCSL22048R5	2200	400	800	DN2204R5	-	-
MCSL22066R5	2200	600	600	DN2206R5	DNG2206R5	CVR0606R5
MCSL22068R5	2200	600	800	DN2206R5	DNG2206R5	CVR0608R5
MCSL22086R5	2200	800	600	DN2208R5	DNG2208R5	CVR0806R5
MCSL22088R5	2200	800	800	DN2208R5	DNG2208R5	CVR0808R5
MCSL22106R5	2200	1000	600	DN2210R5	-	CVR1006R5
MCSL22108R5	2200	1000	800	DN2210R5	-	CVR1008R5
MCSL22126R5	2200	1200	600	-	-	CVR1206R5
MCSL22128R5	2200	1200	800	-	-	CVR1208R5

* DNMK is required when a door will be installed



Accessories for Floor Standing Enclosures

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Floor Standing Enclosures

Accessories | General

Front/rear plinths, PF

- Description:** Front and rear plinth sections. For cabling without any restrictions and in accordance with the VDE 0113 standard. The plinth consists of four corner pieces with removable front covers. The side panels PS are to be ordered separately. Produced in 100 mm and 200 mm heights. 200 mm high plinths are delivered with a rear cover for cabling that consists of two removable 100 mm high panels. The front cover is a one piece panel of 200 mm high. All panels have double returns on each panel for added strength.
- Material:** Corner pieces in 2 mm and panels in 1.5 mm mild steel.
- Finish:** RAL 7022 structured powder coating.
- Pack quantity:** 1 set of 4 corner pieces including covers. Front and rear panel (2 rear panels for 200 mm high plinths) with mounting accessories. Mounting accessories for side panels PS or transversal profiles PCP.

For enclosure		
H	W	Item no.
100	400	PF1040
100	600	PF1060
100	800	PF1080
100	1000	PF1100
100	1200	PF1120
200	400	PF2040
200	600	PF2060
200	800	PF2080
200	1000	PF2100
200	1200	PF2120

* Available for MKSL and MCSL enclosures.



Ventilated front/rear plinths, PV

- Description:** Front and rear plinth sections with ventilated panels. Recommended to be used in combination with the ventilated bottom plate CVB. For cabling without any restrictions and in accordance with the VDE 0113 standard. The plinth consists of four corner pieces with removable front covers. All panels have double returns for added strength. Only available in height of 100 mm.
- Material:** Corner pieces in 2 mm and panels in 1.5 mm mild steel.
- Finish:** RAL 7022 structured powder coating.
- Pack quantity:** 1 set of 4 corner pieces including covers. Front and rear panel with mounting accessories for side panels PS or transversal profiles PCP.
- Mounting requirement:** Add the side panels PS for a complete plinth. When combining enclosures it is recommended to add transversal panels PCP for cable duct support and extra rigidity. Use ventilated bottom plates CVB to get better enclosure ventilation.

For enclosure		Item no.
W	H	Item no.
400	100	PV1040
600	100	PV1060
800	100	PV1080
1000	100	PV1100
1200	100	PV1120

* Available for MKSL and MCSL enclosures.



Side plinths, PS

- Description:** Side panels to cover the openings in the sides of the PF plinth. Double folded panels for maximum strength. Compatible with combinable and semi-compact ranges.
- Material:** 1.5 mm steel plate.
- Finish:** RAL 7022 structured powder coating.
- Pack quantity:** 2 panels. Mounting accessories included with PF/PV.

For enclosure		
H	D	Item no.
100	400	PS1040
100	600	PS1060
100	800	PS1080
200	400	PS2040
200	600	PS2060
200	800	PS2080

* Available for MKSL and MCSL enclosures.



Floor Standing Enclosures

Accessories | General

Plinth combining profiles, PCP

- Description:** Acts as a stabiliser when cabling is routed between bayed enclosures. With the PCP, plinths can be combined and fixed to the floor before the enclosures are mounted on them. The PCP can be used when cables have to go under the enclosure. For 200 mm high plinths, the PCP can be mounted in three different heights, top, middle or bottom. The hole pattern for cage nuts and M5x10 screws, allows accessories to be mounted.
- Material:** 2 mm steel plate.
- Finish:** RAL 7022 structured powder coating.
- Pack quantity:** 2 Profiles. Mounting accessories included with PCP.



For enclosure		
D		Item no.
400		PCP04
600		PCP06
800		PCP08

* Available for MCSL enclosures.

Plain bottom plates, CBP

- Description:** Consist of three pieces for easy cable access. To achieve perfect sealing use the gasket kit BG01.
- Material:** 1mm zinc plated steel
- Pack quantity:** 1 kit of three parts bottom plate



For enclosure		
W	D	Item no.
400	400	CBP044
400	600	CBP046
400	800	CBP048
600	400	CBP064
600	600	CBP066
600	800	CBP068
800	400	CBP084
800	600	CBP086
800	800	CBP088
1000	400	CBP104
1000	600	CBP106
1000	800	CBP108
1200	400	CBP124
1200	600	CBP126
1200	800	CBP128

* Available for MKSL and MCSL enclosures.

Ventilated bottom plates, CVB

- Description:** Three piece bottom plates. Can be used in combination with a ventilated plinth PV.
- Material:** 1.5 mm perforated zinc plated steel, 33% ventilated.
- Pack quantity:** 3 pieces with mounting material.
- Mounting requirement:** Use in combination with ventilated plinths PV.



For enclosure		
W	D	Item no.
600	400	CVB0604
600	600	CVB0606
600	800	CVB0608
800	400	CVB0804
800	600	CVB0806
800	800	CVB0808
1000	400	CVB1004
1000	600	CVB1006
1000	800	CVB1008

* Available for MKSL and MCSL enclosures.

Floor Standing Enclosures

Accessories | General

Front/rear bottom frames, PCU

- Description:** For fixing and routing of cables or mounting of busbar. Identical hole pattern to the enclosure's frame makes all relevant accessories (e.g. CLPF, CLPK, etc) possible to mount. Fixed to the base of the enclosure by M12 screws (provided).
- Material:** Frame in 1.75 mm steel plate, panels in 1.35 mm steel plate.
- Finish:** RAL 7035 structured powder coating.
- Protection:** IP 41 | TYPE 1.
- Mounting requirement:** Add side panels PCUP for closing the sides.
- Pack quantity:** 1 piece with front and back cover plates with mounting accessories.



For enclosure			
H	W	D	Item no.
200	400	600	PCU2046R5
200	400	800	PCU2048R5
200	600	600	PCU2066R5
200	600	800	PCU2068R5
200	800	600	PCU2086R5
200	800	800	PCU2088R5
200	1000	600	PCU2106R5
200	1000	800	PCU2108R5
200	1200	600	PCU2126R5
200	1200	800	PCU2128R5
300	400	600	PCU3046R5
300	400	800	PCU3048R5
300	600	600	PCU3066R5
300	600	800	PCU3068R5
300	800	600	PCU3086R5
300	800	800	PCU3088R5
300	1000	600	PCU3106R5
300	1000	800	PCU3108R5
300	1200	600	PCU3126R5
300	1200	800	PCU3128R5

* Available for MCSL enclosures.

Side bottom frames, PCUP

- Description:** For covering the sides of the bottom cabling frame PCU. Fixed with 4 screws.
- Material:** 1.35 mm steel plate.
- Finish:** RAL 7035 structured powder coating.
- Pack quantity:** 2 panels with mounting accessories.

For enclosure		
H	D	Item no.
200	600	PCUP206R5
200	800	PCUP208R5
300	600	PCUP306R5
300	800	PCUP308R5

* Available for MCSL enclosures.



Front/rear top frames, MCU

- Description:** For cable entry and routing or for installation of a power distribution system. Fixed to the top of the enclosure by four M12 screws. Available in both 200 mm and 300 mm height. The enclosure roof plate CCR can be used to close the top. For lifting a 200 mm high MCU together with an enclosure a separate lifting kit MCUK is needed.
- Side panels:** MCUP Supplied as an accessory.
- Material:** Frame in 1.75 mm steel plate, panels in 1.35 mm steel plate.
- Finish:** RAL 7035 structured powder coating.
- Protection:** IP 41.
- Pack quantity:** 1 piece with front and back panels including mounting accessories (without roof plate).

For enclosure			
H	W	D	Item no.
200	400	600	MCU2046R5
200	400	800	MCU2048R5
200	600	600	MCU2066R5
200	600	800	MCU2068R5
200	800	600	MCU2086R5
200	800	800	MCU2088R5
200	1000	600	MCU2106R5
200	1000	800	MCU2108R5
200	1200	600	MCU2126R5
200	1200	800	MCU2128R5
300	400	600	MCU3046R5
300	400	800	MCU3048R5
300	600	600	MCU3066R5
300	600	800	MCU3068R5
300	800	600	MCU3086R5
300	800	800	MCU3088R5
300	1000	500	MCU3106R5
300	1000	800	MCU3108R5
300	1200	600	MCU3126R5
300	1200	800	MCU3128R5

* Available for MCSL enclosures.



Floor Standing Enclosures

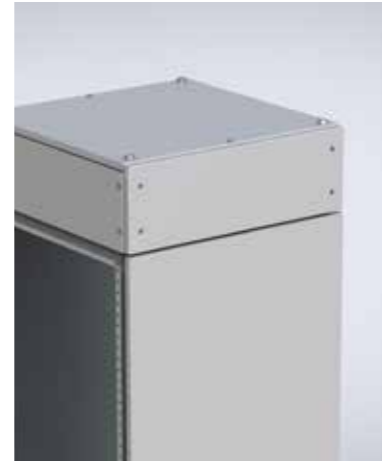
Accessories | General

Side top frames, MCUP

Description: For covering the sides of the top cabling frame. Fixed with 4 screws.
Material: 1.35 mm steel plate.
Finish: RAL 7035 structured powder coating.
Pack quantity: 2 panels with mounting accessories.

For enclosure		
H	D	Item no.
200	600	MCUP206R5
200	800	MCUP208R5
300	600	MCUP306R5
300	800	MCUP308R5

* Available for MCSL enclosures.



Lifting kit, MCUK

Description: For lifting the enclosure together with the top cable frame MCU of 200 mm high. Mounted directly into the enclosure's frame and therefore releasing the MCU from any strain. 300 mm high MCUs must be lifted separately.
Pack quantity: 4 spindles with lifting eyes according to DIN 580 lifting instructions.

Item no.
MCUK04

* Available for MCSL enclosures.

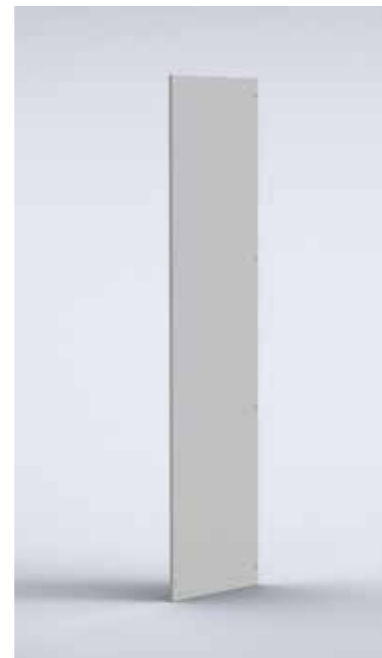


Side panels, SPM

Description: Easy one man assembly. Sealed by an extruded, one piece polyurethane gasket and mounted with 8 screws. Can be replaced by the side door DNS.
Material: 1.5 mm steel plate.
Finish: RAL 7035 structured powder coating.
Protection: IP 56 | TYPE 4, 12, 13.
Pack quantity: 2 panels with mounting accessories.

For enclosure		
H	D	Item no.
1800	400	SPM1804R5
1800	600	SPM1806R5
1800	800	SPM1808R5
2000	400	SPM2004R5
2000	600	SPM2006R5
2000	800	SPM2008R5
2200	600	SPM2206R5
2200	800	SPM2208R5

* Available for MCSL enclosures.



Internal baying brackets, CCI

Description: Brackets provide a rigid reinforcement of the enclosure assembly. The correct spacing between the enclosures is assured.
Material: 3 mm zinc plated steel.
Pack quantity: 6 brackets with mounting accessories.

Item no.
CCI06

* Available for MCSL enclosures.

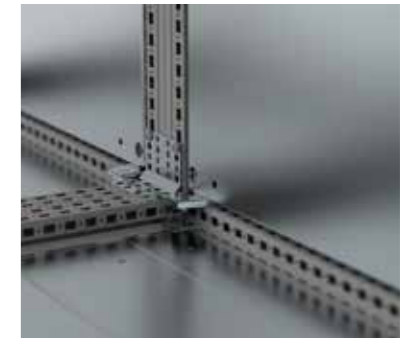


Internal corner baying kit, CCM

Description: For extra support when bayed enclosures are fully equipped and require lifting. Can be used together with SPD separation plates.
Material: 3 mm zinc plated steel.
Pack quantity: 4 brackets with mounting accessories.

Item no.
CCM04

* Available for MCSL enclosures.



External baying brackets, CCE

Description: Brackets mounted on the outside hole pattern of the frame ensuring a strong and 3 dimensional alignment of the bayed enclosures with "auto spacer" function. This method of baying enclosures also has the advantage of realizing a direct earthing connection between the enclosure frames.
Material: 3 mm zinc plated steel.
Pack quantity: 6 brackets with mounting accessories.

Item no.
CCE06

* Available for MCSL enclosures.

**If partial doors, DP, with a height of 150mm or 200mm are installed, only the CCEH bracket can be used.



Floor Standing Enclosures

Accessories | General

Short external baying brackets, CCEH

Description: Short brackets mounted on the outside hole pattern of the frame of the bayed enclosures with "auto spacer" function. Specially designed for small doors/panels configuration. This method of baying enclosures has also the advantage of realising a direct earthing connection between the enclosure frames.

Material: 3 mm zinc plated steel.

Pack quantity: 6 brackets with mounting material.

Item no.
CCEH06

* Available for MCSL enclosures.



Vertical dividers, CDV

Description: The profile is identical to the enclosure's frame and provides vertical separation of the enclosure when partial doors or panels are fitted. Can be mounted in 200 mm steps.

Material: Front profile: 2 mm mild steel. Inner profile: 1.75 mm zinc plated steel.

Finish: RAL 7035 structure powder coating.

Pack quantity: 1 set of profiles with mounting accessories.

For enclosure		Item no.
H		
1800		CDV1800R5
2000		CDV2000R5
2200		CDV2200R5

* Available for MKSL and MCSL enclosures



Horizontal dividers, CDH

Description: Used when the enclosure requires horizontal separation for partial doors or panels. Mounted on the outside hole pattern of the combinable mild steel floor standing range.

Material: 2 mm zinc plated steel.

Mounting requirement: CDH Pieces = number of doors/panels +1.

Pack quantity: 2 profiles with mounting accessories.

W	Item no.
400	CDH400
600	CDH600
800	CDH800

* Available for MCSL enclosures



Horizontal dividers, CDHK

Description: Used when the enclosure requires horizontal divisions. Can be mounted on the hole pattern of semi-compact mild steel floor standing range.

Material: 2 mm zinc plated steel.

Pack quantity: 2 profiles with mounting accessories.

W	Item no.
400	CDHK400
600	CDHK600
800	CDHK800

* Available for MKSL enclosures



Vertical dividing bars, VB

Description: Fitted in the centre of 1200 mm or 1600 mm wide enclosures (front and rear) to provide standard mounting facilities in two vertical sections of 600 mm or 800 mm. This enables separate fitting of equipment such as swing frames, system profiles, in either section of the enclosure.

Material: 2 mm zinc plated steel.

Pack quantity: 1 pair without mounting accessories.

Mounting requirement: Add VBK for mounting. For complete mounting facilities in the division add VBD.

For enclosure		Item no.
H		
1800		VB1800
2000		VB2000
2200		VB2200

* Available for MCSL and MKSL enclosures



Depth dividing bars, VBD

Description: Fitted in the centre of a 1200 mm or 1600 mm wide enclosure (top and bottom), to provide standard mounting facilities in two sections of 600 mm or 800 mm wide. This enables separate fitting of accessories such as CAB(P), CBU, CLPK, CLPF etc., in either side of the enclosure. Accessories are adjustable in depth within the 25 mm hole pattern.

Material: 2 mm zinc plated steel.

Pack quantity: 1 pair without mounting accessories.

Mounting requirement: Add VBK for mounting. Add VB for complete mounting facilities in the division.

For enclosure		Item no.
D		
400		VBD400
600		VBD600
800		VBD800

* Available for MCSL and MKSL enclosures



Floor Standing Enclosures

Accessories | General

Fixing brackets, VBK

Description: Mounting brackets for the VB or VBD in 1200 mm or 1600 mm wide enclosure. It does not interfere with bottom plates.

Material: 3 mm zinc plated steel.

Pack quantity: 4 pieces with mounting accessories.

	Item no.
If depth dividing bar, VBD is installed	VBK04
If depth dividing bar, VBD and vertical dividing bar, VD are installed	VBK1200
If vertical dividing bar, VB is installed	VBK1600

* Available for MCSL and MKSL enclosures



Top and bottom panels, DPC

Description: Required to cover the remaining space at the top and bottom. Used in combination with horizontal dividers CDH, the partial doors/panels DP/DPP and cable space door DPA.

Material: 1.75 mm steel plate.

Finish: RAL 7035 structured powder coating.

Protection: IP 44. For IP 21 delivered without gasket.

Mounting requirement: DPC covers 200 mm in height of the enclosure. So for a 2000 mm high enclosure when DPC is used, there is 1800 mm space left for partial doors/panels.

Pack quantity: Top and bottom panels with mounting accessories.

H	W	Item no.
100+70	400	DPC0714R5
100+70	600	DPC0716R5
100+70	800	DPC0718R5

* Available for MCSL and MKSL enclosures



Ventilated top and bottom panels, DPCV

Description: Required to cover the remaining space at the top and bottom. With ventilation slots for added heat dissipation in switchgear enclosures. Used in combination with horizontal dividers CDH, the partial doors/panels DP/DPP and cable space door DPA.

Material: 1.75 mm steel plate.

Finish: RAL 7035 structured powder coating.

Protection: IP 20.

Mounting requirement: DPCV covers 200 mm in height of the enclosure. So for a 2000 mm high enclosure when DPCV is used, there is 1800 mm space left for partial doors/panels.

Pack quantity: 2 panels with mounting accessories.

H	W	Item no.
100+70	400	DPCV0714R5
100+70	600	DPCV0716R5
100+70	800	DPCV0718R5

* Available for MKSL and MCSL enclosures.



Partial doors, DP

Description: To divide the enclosure front into sections when used in conjunction with the horizontal divider CDH/CHDK. Equipped with double-bit 3 mm lock (1 lock up to 400 mm, over 400 mm height 2 locks).

Material: 1.75 mm steel plate.

Finish: RAL 7035 structured powder coating.

Protection: IP 44.

Pack quantity: 1 door with hinges, locks and mounting accessories.

Mounting requirement: Add CDH for MC frames and use CDHK for MK frames.

H	W	Item no.
150	600	DP01506R5
150	800	DP01508R5
200	600	DP02006R5
200	800	DP02008R5
250	600	DP02506R5
250	800	DP02508R5
300	600	DP03006R5
300	800	DP03008R5
400	600	DP04006R5
400	800	DP04008R5
500	600	DP05006R5
500	800	DP05008R5
600	600	DP06006R5
600	800	DP06008R5
800	600	DP08006R5
800	800	DP08008R5
1000	600	DP10006R5
1000	800	DP10008R5

* Available for MKSL and MCSL enclosures.



Floor Standing Enclosures

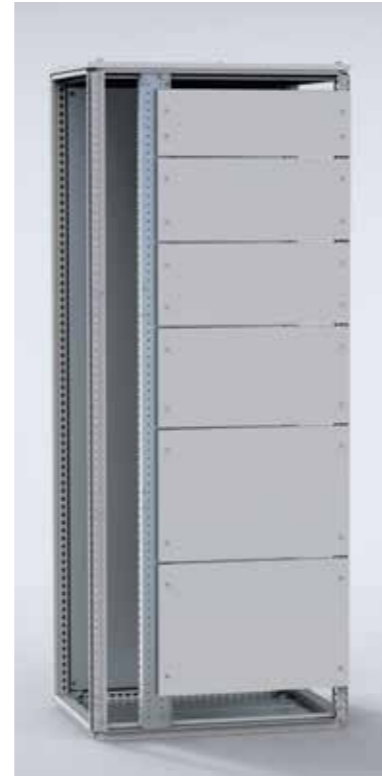
Accessories | General

Partial panels, DPP

- Description:** To divide the enclosure front into sections when used in conjunction with the horizontal divider CDH/CDHK when no door is required.
- Material:** 1.75 mm steel plate.
- Finish:** RAL 7035 structured powder coating.
- Protection:** IP 44.
- Pack quantity:** 1 panel with mounting accessories.
- Mounting requirement:** Add CDH for MC frames and use CDHK for MK frames. Use DPC for top and bottom panels.

H	W	Item no.
100	600	DPP01006R5
100	800	DPP01008R5
150	600	DPP01506R5
150	800	DPP01508R5
200	600	DPP02006R5
200	800	DPP02008R5
250	600	DPP02506R5
250	800	DPP02508R5
300	600	DPP03006R5
300	800	DPP03008R5
400	600	DPP04006R5
400	800	DPP04008R5

* Available for MKSL and MCSL enclosures.



Vertical front panels, DPB

- Description:** In order to cover vertical busbar space. Used in combination with CDV.
- Material:** 2 mm steel plate.
- Finish:** RAL 7035 structured powder coating.
- Protection:** IP 44.
- Pack quantity:** 1 panel with mounting accessories.

H	W	Item no.
1800	200	DPB18002R5
2000	200	DPB20002R5
2200	200	DPB22002R5

* Available for MKSL and MCSL enclosures.



Cable space doors, DPA

- Description:** To close a vertical cable section. Used in combination with CDV. In order to close the front, top and bottom panels DPC/DPCV are required.
- Material:** 2 mm steel plate.
- Finish:** RAL 7035 structured powder coating.
- Protection:** Complies with IP 44.
- Mounting requirement:** Add CDH for MC frames and use CDHK for MK frames.
- Pack quantity:** 1 door with hinges and equipped with double-bit 3 mm espagnolette locking system.

H	W	Item No.
1600	400	DPA1604R5
1600	600	DPA1606R5
1800	400	DPA1804R5
1800	600	DPA1806R5
2000	400	DPA2004R5
2000	600	DPA2006R5

* Available for MKSL and MCSL enclosures.



Plain doors, DN

- Description:** Standard door equipped with double-bit 3 mm lock system and door frame. Door accessory kit DNMK (hinges, rod catches) to be ordered separately. Allows all the options of the locking program and 180° hinges. Compatible with combinable and semi-compact ranges.
- Material:** 2 mm steel plate.
- Maximum load:** 800 N.
- Finish:** RAL 7035 structured powder coating.
- Mounting requirement:** Use hinge kit DNMK01 if no door was fitted previously.
- Pack quantity:** 1 piece.

Single door

H	W	Item no.
1800	400	DN1804R5
1800	600	DN1806R5
1800	800	DN1808R5
1800	1000	DN1810R5
2000	500	DN2004R5
2000	600	DN2006R5
2000	800	DN2008R5
2000	1000	DN2010R5
2200	400	DN2204R5
2200	600	DN2206R5
2200	800	DN2208R5
2200	1000	DN2210R5

* Available for MKSL and MCSL enclosures.



Floor Standing Enclosures

Accessories | General

Glazed doors, DNG

- Description:** Standard door with fitted clear safety glass to view the inside of the enclosure. Equipped with double-bit 3 mm lock system and door frame. Allows all options of the locking program.
- Material:** Frame: 2 mm steel plate. Viewing area: 4 mm clear safety glass.
- Finish:** RAL 7035 structured powder coating.
- Protection:** IP 55 | TYPE 12 | IK 10.
- Pack quantity:** 1 piece.
- Mounting requirement:** Use hinge kit DNMK01 if no door was fitted previously.

For enclosure		
H	W	Item no.
1800	600	DNG1806R5
1800	800	DNG1808R5
2000	600	DNG2006R5
2000	800	DNG2008R5
2200	600	DNG2206R5
2200	800	DNG2208R5

* Available for MKSL and MCSL enclosures.



Door mounting kits, DNMK

- Description:** Door mounting kit for mild steel floor standing enclosures. Required when fitting a door. Only needed when there was no door mounted previously.
- Pack quantity:** 1 complete kit with hinges, rod catches and mounting accessories.

Description	Item no.
for single door enclosures	DNMK01
for double door enclosures	DNMK02

* Available for MKSL and MCSL enclosures.



Inner doors, DI

- Description:** Inner door provides a hinged mounting surface for equipment behind a standard or glazed front door. A mounting space of 80 mm, is available between the doors when the inner door is in forward position. Can be adjusted in depth by steps of 25 mm. The mounting plate remains usable behind the inner door. The door is equipped with two double-bit 3 mm locks, and plastic handles.
- Material:** 1.5 mm mild steel.
- Finish:** RAL 7035 structured powder coating.
- Pack quantity:** 1 door with mounting accessories.

For enclosure		
H	W	Item no.
1800	600	DI1806R5
1800	800	DI1808R5
2000	600	DI2006R5
2000	800	DI2008R5
2200	600	DI2206R5
2200	800	DI2208R5

*Other sizes available on request.
**Available for MCSL and MKSL enclosures



Door stop, DSTP

- Description:** To lock an open door in position. Mounted directly to the door frame and on the enclosure profile.
- Material:** Zinc plated steel.
- Pack quantity:** 1 piece with mounting accessories.

Item no.
DSTP02

* Available for MKSL and MCSL enclosures.



Document pocket, DRA

- Description:** Self adhesive, for DIN A4.
- Usable depth:** 30 mm.
- Material:** Thermoplastic.
- Finish:** RAL 7035.
- Pack quantity:** 1 document pocket with double sided tape.

Item no.
DRA04

* Available for MKSL and MCSL enclosures.



Floor Standing Enclosures

Accessories | General

Document pockets, DRB

Description: A large steel document pocket fixed directly onto the door frame. Usable depth: 68 mm.

Material: 1.35 mm mild steel.

Finish: RAL 7035 structured powder coating.

Pack quantity: 1 piece with mounting accessories.



Description	Item no.
Universal document pocket 300 mm wide for 600 mm doors	DRB0303R5
for 600 mm doors	DRB600R5
for 800 mm doors	DRB800R5

* Available for MKSL and MCSL enclosures.

Ventilation roofs, CVR

Description: Raised roof with 2.5 mm ventilation slots and filter material.

Material: 1.5 mm steel plate. Filter material: EU 4 according to DIN 24185.

Finish: RAL 7035 structured powder coating.

Temperature resistance: 100° C.

Protection: IP 31 | TYPE 1.

Pack quantity: 1 piece with mounting brackets and ventilation filter.

Note: Increases the enclosure height by 40 mm.



For enclosure		
W	D	Item no.
600	400	CVR0604R5
600	600	CVR0606R5
600	800	CVR0608R5
800	400	CVR0804R5
800	600	CVR0806R5
800	800	CVR0808R5
1000	400	CVR1004R5
1000	600	CVR1006R5
1000	800	CVR1008R5
1200	400	CVR1204R5
1200	600	CVR1206R5
1200	800	CVR1208R5

Spacer kits, CVK

Description: Provides ventilation by raising the roof panel 15 mm (CVK15), 50 mm (CVK50).

Material: Zinc plated steel.

Pack quantity: 4 pieces with mounting accessories.



Item no.
CVK15
CVK50

* Available for MKSL and MCSL enclosures.

Lifting eye bolts, LE

Description: M12 thread. Mounts directly to the frame corner pieces of the enclosure. Complies with DIN 580 lifting requirements.

Maximum load: 3400 N per lifting eye with max angle of 45°. Please follow nVent HOFFMAN lifting instructions.

Pack quantity: 4 pieces.



Material	Item no.
Zinc plated steel	LE9304

* Available for MKSL and MCSL enclosures.

Lifting device, LC

Description: For optimal weight distribution when lifting bayed enclosures. To be used in combination with baying bracket.

Material: 5 mm zinc plated steel.

Pack quantity: 2 pieces with mounting accessories.



Item no.
LC02

* Available for MCSL enclosures.

Floor Standing Enclosures

Accessories | General

Side mounting bars, CMB

Description: For fixing cables, cable guides, etc, in the depth or the width of an enclosure.

Material: 2 mm zinc plated steel.

Pack quantity: 20 profiles with mounting accessories.

For enclosure		Item no.
W/D		
400		CMB402
600		CMB602
800		CMB802

* Available for MKSL and MCSL enclosures.



Cage nuts, CNM

Description: Cage nuts designed for universal use on the enclosure frame profiles and the profiles system.

Pack quantity: 50 pieces.

Thread	Item no.
M6	CNM615
M8	CNM815

* Available for MKSL and MCSL enclosures.



Screws for clip-on cage nuts, CNS

Description: Socket head screws M6x12 and M8x12 for clip-on cage nuts.

Pack quantity: 250 pieces.

Thread	Item no.
M6	CNS612
M8	CNS812

* Available for MKSL and MCSL enclosures.



Earthing cables, ECFA

Description: For earthing between metallic parts.

Material: 6 mm² copper wire (yellow-green).

Pack quantity: 10 pieces.

Mounting requirement: Add connection set ECF for fixing cable to painted frame.

Length	Connection size	Item no.
220 mm	M6/M8	ECFA220
300 mm	M8/M8	ECFA300

* Available for MKSL and MCSL enclosures.



Earthing connections for frames, ECF

Description: Earthing connections for fixing the earthing straps and cables to the enclosure's frame.

Pack quantity: 10 sets.

Size	Item no.
M6	ECF06
M8	ECF08

* Available for MKSL and MCSL enclosures.



Earthing connections for panels, ECP

Description: Earthing connection for fixing the earthing straps and cables to panels, mounting plates or profiles.

Pack quantity: 10 sets.

Size	Item no.
M6	ECP06
M8	ECP08

* Available for MKSL and MCSL enclosures.



Floor Standing Enclosures

Accessories | Incoming

Internal side panels, MSPS

Description: Internal side panels to build up sections as from the enclosure frame. Frame hole pattern is needed in front, rear, top and bottom.

Material: 1.5 mm galvanized steel.

Delivery: 1 piece with mounting material.

For cables section

H	D	Side panel dimensions		Item no.
		h	w	
1800	300	1707	337	MSPS1803
1800	500	1707	537	MSPS1805
2000	300	1907	337	MSPS2003
2000	500	1907	537	MSPS2005
2200	300	2107	337	MSPS2203
2200	500	2107	537	MSPS2205

For incoming/outgoing sections

H	D	Side panel dimensions		Item no.
		h	w	
1800	600	1707	507	MSPS1806
1800	800	1707	707	MSPS1808
2000	600	1907	507	MSPS2006
2000	800	1907	707	MSPS2008
2200	600	2107	507	MSPS2206
2200	800	2107	707	MSPS2208

For incoming/outgoing sections with front opening

H	D	Side panel dimensions		Item no.
		h	w	
1800	600	1707	507	MSPS1806F
1800	800	1707	707	MSPS1808F
2000	600	1907	507	MSPS2006F
2000	800	1907	707	MSPS2008F
2200	600	2107	507	MSPS2206F
2200	800	2107	707	MSPS2208F



Horizontal support for busbar support MSHS, MSHSI

Description: Support to be mounted horizontally in the enclosure. Is mounted to the internal side panels, MSPS, and the enclosure frame. Makes it possible to mount the MSHS busbar support in depth in a horizontal position. Ideal when there are many incoming/outgoing cables and need a horizontal connection.

Material: 1.5 mm galvanized steel.

Delivery: 2 pcs. of Horizontal support.

H	D	Description	H	Item no.
100	600	Horizontal support for MSHS	100	MSHSI600
100	800	Horizontal support for MSHS	100	MSHSI800



Shelves for air circuit-breakers (ACB), MSCC

Description: Shelf to mount air circuit-breakers. The shelf has ventilation slots to allow air circulation in the section. It can be mounted only if we have internal side panels MSPSxx06 in both sides. Adjustable height position in steps of 25 mm.

Material: 2 mm galvanized steel.

Delivery: 1 piece with mounting material

For enclosure		Shelf dimensions		Item no.
W	D	w	d	
600	600	504	283	MSCC0606
800	600	704	283	MSCC0806
1000	600	904	283	MSCC1006



Ventilated shelves, SHC

Description: Mounted directly onto the enclosure's frame. The load capacity is 500 N.

Material: 2 mm zinc plated steel.

Pack quantity: 1 shelf with mounting accessories.

For enclosure		Shelf dimensions		Item no.
W	D	w	d	
600	600	509	555	SHC0606
600	800	509	755	SHC0608
800	600	709	555	SHC0806
800	800	709	755	SHC0808



Floor Standing Enclosures

Accessories | Incoming

Partial height mounting plates, MPP

Description: Mounted directly on the enclosure's frame or onto click-in profiles (CLPK). Special design of the bracket allows for one man mounting. Can be mounted in any height or depth position within the 25 mm hole pattern. Appropriate sizes can also be used on the sides of the enclosure.

Material: 3 mm galvanized steel.

Pack quantity: 1 plate with mounting accessories.

Mounting requirement: Add CLPK for depth adjustment.

Note: MPP can be mounted in both directions.

For enclosure		Mounting plate dimensions		Item no.
H/W	W/H	h/w	w/h	
600	400	494	294	MPP0604
600	600	494	494	MPP0606
600	800	494	694	MPP0608
600	1000	494	894	MPP0610
800	400	694	294	MPP0804
800	800	694	694	MPP0808
1000	400	894	294	MPP1004
1000	800	894	694	MPP1008
1200	400	1094	294	MPP1204
1200	600	1094	494	MPP1206



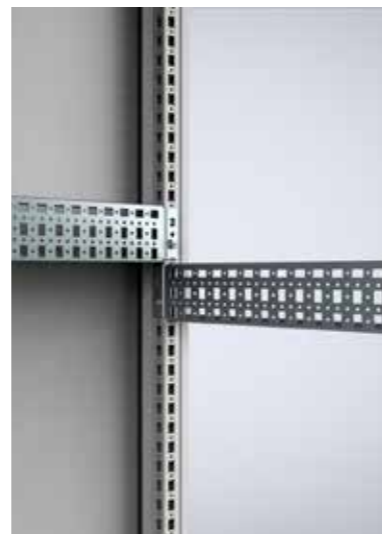
Click-in profiles, CLPK

Description: Universal profile for both depth and width fitting on the 25 mm DIN hole pattern of the enclosure's frame or in combination with the CLPF and VB profiles. The 75 mm wide profile is equipped with three rows of holes of which one is turned 90°. This makes it possible to mount the CLPF profiles in both orientations. The CLPK can be secured by the use of self tapping screws.

Material: 1.5 mm zinc plated steel.

Pack quantity: 4 profiles.

For enclosure		Max. loading	Item no.
W/D			
400		1600 N	CLPK400
600		1600 N	CLPK600
800		1200 N	CLPK800
1000		1200 N	CLPK1000



Mounting profiles, CLPF

Description: The CLPF profile system is a 40 mm wide and 25 mm high profile, which can be mounted in all directions on the enclosure's frame. It can also be used in combination with the CLPK and the VB profiles. By turning the profile it can be used as a standard CP20/40 profile in combination with GLM 40/6 sliding nuts, to mount installation material which needs adjusting in depth. The profiles, when mounted onto the enclosure's frame are flush with the enclosure's profiles. Two rows of hole patterns for cage nut fixing and self tapping screws are provided. For 90 mm wide profiles two profiles can be mounted next to each other.

Material: Zinc plated steel.

Pack quantity: 4 profiles including fixing accessories.

For enclosure				
H/W	W/D	Max. loading Horizontal C	Max. loading Horizontal Π	Item no.
400	400	800 N	1000 N	CLPF400
600	600	800 N	1000 N	CLPF600
800	800	800 N	1000 N	CLPF800
1000	1000	800 N	1000 N	CLPF1000



Fix system vertical profiles, MSFP

Description: Vertical profiles to build up fix systems. It can be mounted with or without sidepanels MSPS. These profiles lets us to mount MCCBs in mounting plates MSMPN, or DIN rails for modular components with the accessory fix MSADP or adjustable MSMPA01. The busbar supports in the rear of the compartments, MSFH, mount directly to the profile.

Material: 1.55 mm galvanized steel.

Delivery: 2 pieces with mounting material.

For enclosure		Item no.
H		
1800		MSFP1800
2000		MSFP2000
2200		MSFP2200



Floor Standing Enclosures

Accessories | Incoming

Mounting plates, MSMPN

Description: Mounting plate for installation of breakers. Suitable for left and right hand connections.

Material: 1.5 mm galvanized steel.

Pack quantity: 1 piece with mounting material.

Requirements: To be assembled on MSFP, or on MSMSM/MSMSF with MSMPA01.

Plain

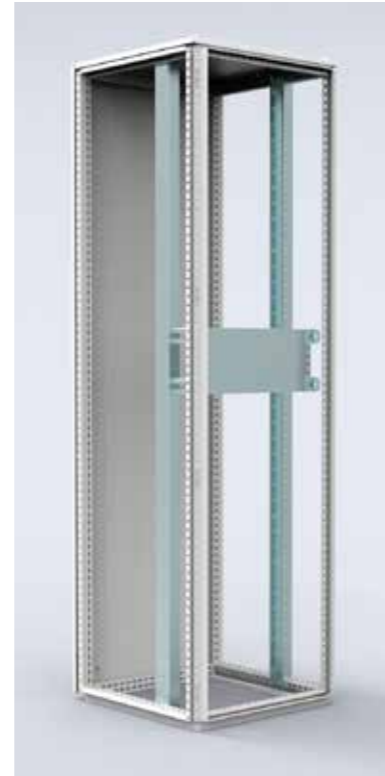
Mounting plate dimensions				
H	W	h	w	Item no.
50	600	46	470	MSMPN0506
50	800	46	670	MSMPN0508
100	600	96	470	MSMPN1006
100	800	96	670	MSMPN1008
150	600	146	470	MSMPN1506
150	800	146	670	MSMPN1508
200	600	196	470	MSMPN2006
200	800	196	670	MSMPN2008
250	600	246	470	MSMPN2506
250	800	246	670	MSMPN2508
300	600	296	470	MSMPN3006
300	800	296	670	MSMPN3008
400	600	396	470	MSMPN4006
400	800	396	670	MSMPN4008
450	600	446	470	MSMPN4506
450	800	446	670	MSMPN4508
500	600	496	470	MSMPN5006
500	800	496	670	MSMPN5008
600	600	596	470	MSMPN6006
600	800	596	670	MSMPN6008
600	1000	596	870	MSMPN6010

Horizontal opening

Mounting plate dimensions				
H	W	h	w	Item no.
100	600	96	470	MSMPN1006H
100	800	96	670	MSMPN1008H

Vertical opening

Mounting plate dimensions				
H	W	h	w	Item no.
150	600	146	470	MSMPN1506V
150	800	146	670	MSMPN1508V
200	600	196	470	MSMPN2006V
200	800	196	670	MSMPN2008V
250	600	246	470	MSMPN2506V
250	800	246	670	MSMPN2508V
300	600	296	470	MSMPN3006V
300	800	296	670	MSMPN3008V
400	600	396	470	MSMPN4006V
400	800	396	670	MSMPN4008V
450	600	446	470	MSMPN4506V
450	800	446	670	MSMPN4508V
500	600	496	470	MSMPN5006V
500	800	496	670	MSMPN5008V
600	600	596	470	MSMPN6006V
600	800	596	670	MSMPN6008V



Adjustable brackets, MSMPA01

Description: A bracket to mount a DIN-rail or mounting plate which is adjustable in depth to allow for mounting of components in different sizes in the desired position. Panel builders can hold less stock and engineer with fewer item numbers thanks to the adjustable depth design.

Material: 2.5 mm galvanized steel, zamak.

Pack quantity: 2 pairs.

Requirements: To be assembled on MSFP, or on MSMSM/MSMSF.

Item no.
MSMPA01



Front cover profiles, MSFCP

Description: Front frame built up by two vertical and two horizontal profiles. To be covered by front panels MSMBP or MSMCP.

Material: 1.5 mm galvanized steel.

Finish: RAL 7035 structured powder coating.

Delivery: 2 vertical profiles, top and bottom profiles, and mounting material.

For enclosure		
H	W	Item no.
1800	600	MSFCP1806R5
1800	800	MSFCP1808R5
2000	600	MSFCP2006R5
2000	800	MSFCP2008R5
2200	600	MSFCP2206R5
2200	800	MSFCP2208R5



Floor Standing Enclosures

Accessories | Incoming

Plain front panels, MSMBP

Description: Plain front panel for modular assemblies. It has a top and bottom bending to provide extra rigidity.

Material: 1.25 mm steel.

Finish: RAL 7035 structured powder coating.

Delivery: 1 piece with mounting material.

Requirements: To be assembled on MSFCP or on MSMSM / MSMSF.

H	W	Front panel dimensions		Item no.
		h	w	
50	600	49	503	MSMBP0506R5
50	800	49	703	MSMBP0508R5
100	600	99	503	MSMBP1006R5
100	800	99	703	MSMBP1008R5
150	600	149	503	MSMBP1506R5
150	800	149	703	MSMBP1508R5
200	600	199	503	MSMBP2006R5
200	800	199	703	MSMBP2008R5
250	600	249	503	MSMBP2506R5
250	800	249	703	MSMBP2508R5
300	600	299	503	MSMBP3006R5
300	800	299	703	MSMBP3008R5
400	600	399	503	MSMBP4006R5
400	800	399	703	MSMBP4008R5
450	600	449	503	MSMBP4506R5
450	800	449	703	MSMBP4508R5
500	600	499	503	MSMBP5006R5
500	800	499	703	MSMBP5008R5
600	600	599	503	MSMBP6006R5
600	800	599	703	MSMBP6008R5



Floor Standing Enclosures

Accessories | Outgoing - Modular system

Modular system frames, MSMSF

- Description:** Two single vertical profiles, which can be used both for front covers and assembly of components. A cost effective solution for panel builders, reducing assembly time, which also enables assembly outside the enclosure.
- Material:** 2 mm steel.
- Finish:** RAL 7035.
- Pack quantity:** 1 kit.
- Requirements:** To be assembled on MKSL-MCSL enclosures.

For enclosure		Item no.
H	W	
1800	600	MSMSF1806
1800	800	MSMSF1808
2000	600	MSMSF2006
2000	800	MSMSF2008
2200	600	MSMSF2206
2200	800	MSMSF2208



Mounting plates, MSMPN

- Description:** Mounting plate for installation of breakers. Suitable for left and right hand connections.
- Material:** 1.5 mm galvanized steel.
- Pack quantity:** 1 piece with mounting material.
- Requirements:** To be assembled on MSFP, or on MSMSM/MSMSF with MSMPA01.

Plain

H	W	Mounting plate dimensions		Item no.
		h	w	
50	600	46	470	MSMPN0506
50	800	46	670	MSMPN0508
100	600	96	470	MSMPN1006
100	800	96	670	MSMPN1008
150	600	146	470	MSMPN1506
150	800	146	670	MSMPN1508
200	600	196	470	MSMPN2006
200	800	196	670	MSMPN2008
250	600	246	470	MSMPN2506
250	800	246	670	MSMPN2508
300	600	296	470	MSMPN3006
300	800	296	670	MSMPN3008
400	600	396	470	MSMPN4006
400	800	396	670	MSMPN4008
450	600	446	470	MSMPN4506
450	600	446	670	MSMPN4508
500	600	496	470	MSMPN5006
500	800	496	670	MSMPN5008
600	600	596	470	MSMPN6006
600	800	596	670	MSMPN6008
600	1000	596	870	MSMPN6010

Horizontal opening

H	W	Mounting plate dimensions		Item no.
		h	w	
100	600	96	470	MSMPN1006H
100	800	96	670	MSMPN1008H

Vertical opening

H	W	Mounting plate dimensions		Item no.
		h	w	
150	600	146	470	MSMPN1506V
150	800	146	670	MSMPN1508V
200	600	196	470	MSMPN2006V
200	800	196	670	MSMPN2008V
250	600	246	470	MSMPN2506V
250	800	246	670	MSMPN2508V
300	600	296	470	MSMPN3006V
300	800	296	670	MSMPN3008V
400	600	396	470	MSMPN4006V
400	800	396	670	MSMPN4008V
450	600	446	470	MSMPN4506V
450	800	446	670	MSMPN4508V
500	600	496	470	MSMPN5006V
500	800	496	670	MSMPN5008V
600	600	596	470	MSMPN6006V
600	800	596	670	MSMPN6008V



Floor Standing Enclosures

Accessories | Outgoing - Modular system

DIN rails, MSDR

Description: Cut to size DIN rail ready to be installed. The simplified panel design makes procurement easier and reduces assembly time.

Material: Galvanized steel.

Pack quantity: 5 pieces.

Requirements: To be assembled on MSFP with the holders MSADP or with the adjustable brackets MSMPA01, or on MSMSM / MSMSF with the fixed brackets MSMPF01 or with the adjustable brackets MSMPA01.

For enclosure	
W	Item no.
600	MSDR0600
800	MSDR0800



Fixed brackets, MSMPF01

Description: A bracket to mount a DIN-rail to allow for mounting of modular components in the modular system profiles. Cost effective solution for panel builders.

Material: 2.5 mm galvanized steel

Pack quantity: 1 pair

Requirements: To be assembled on MSMSM / MSMSF

Item no.
MSMPF01



Adjustable brackets, MSMPA01

Description: A bracket to mount a DIN-rail or mounting plate which is adjustable in depth to allow for mounting of components in different sizes in the desired position. Panel builders can hold less stock and engineer with fewer item numbers thanks to the adjustable depth design.

Material: 2.5 mm galvanized steel, zamak.

Pack quantity: 2 pairs.

Requirements: To be assembled on MSFP, or on MSMSM/MSMSF.

Item no.
MSMPA01



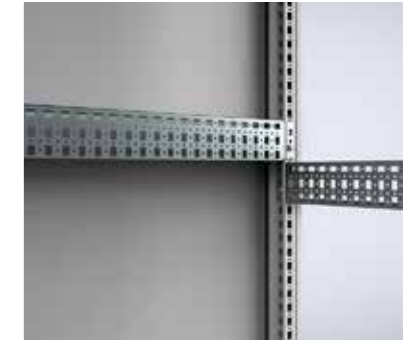
Click-in profiles, CLPK

Description: Universal profile for both depth and width fitting on the 25 mm DIN hole pattern of the enclosure's frame or in combination with the CLPF and VB profiles. The 75 mm wide profile is equipped with three rows of holes of which one is turned 90°. This makes it possible to mount the CLPF profiles in both orientations. The CLPK can be secured by the use of self tapping screws.

Material: 1.5 mm zinc plated steel.

Pack quantity: 4 profiles.

For enclosure		
W/D	Max. loading	Item no.
400	1600 N	CLPK400
600	1600 N	CLPK600
800	1200 N	CLPK800
1000	1200 N	CLPK1000



Mounting profiles, CLPF

Description: The CLPF profile system is a 40 mm wide and 25 mm high profile, which can be mounted in all directions on the enclosure's frame. It can also be used in combination with the CLPK and the VB profiles. By turning the profile it can be used as a standard CP20/40 profile in combination with GLM 40/6 sliding nuts, to mount installation material which needs adjusting in depth. The profiles, when mounted onto the enclosure's frame are flush with the enclosure's profiles. Two rows of hole patterns for cage nut fixing and self tapping screws are provided. For 90 mm wide profiles two profiles can be mounted next to each other.

Material: Zinc plated steel.

Pack quantity: 4 profiles including fixing accessories.

For enclosure				
H/W	W/D	Max. loading Horizontal C	Max. loading Horizontal []	Item no.
400	400	800 N	1000 N	CLPF400
600	600	800 N	1000 N	CLPF600
800	800	800 N	1000 N	CLPF800
1000	1000	800 N	1000 N	CLPF1000



Floor Standing Enclosures

Accessories | Outgoing - Modular system

Adjustment profiles, APK

Description: Width profiles which allows for continuous adjustment of fixation cage nuts for components in height, depth and width. Panel builders can then fix any component in the desired position without machining.

Material: 2,5 mm galvanized steel.

Pack quantity: 2 pairs.

Requirements: To be assembled on CLPF depth profiles.



For enclosure		Item no.
W		
600		APK600
800		APK800

Slotted front panels, MSMCP

Description: Slotted front panel for modular assemblies. Provided with one DIN rail per row for modular components. It has a top and bottom bending to provide extra rigidity.

Material: 1.25 mm steel.

Finish: RAL 7035 structured powder coating.

Delivery: 1 piece with mounting material.

Requirements: To be assembled on MSFCP, or on MSMSM / MSMSF.



H	W	No. of rows	DIN modules	Item no.
150	600	1	25	MSMCP1506R5
150	800	1	36	MSMCP1508R5
200	600	1	25	MSMCP2006R5
200	800	1	36	MSMCP2008R5
300	600	1	25	MSMCP3006-1R5
300	800	1	36	MSMCP3008-1R5
300	600	2	50	MSMCP3006-2R5
300	800	2	72	MSMCP3008-2R5
450	600	3	75	MSMCP4506R5
450	800	3	108	MSMCP4508R5
600	600	4	100	MSMCP6006R5
600	800	4	144	MSMCP6008R5

Blanking plates for DIN slots, TB13G

Description: Blanking plate to cover the unused space in the DIN slots. Can be divided per half a module.

Material: Plastic.

Finish: RAL 7035.

Pack quantity: 10 pieces of blanking plate 13 mod. Overall length 234 mm.



Item no.
TB13G

Plain front panels, MSMBP

Description: Plain front panel for modular assemblies. It has a top and bottom bending to provide extra rigidity.

Material: 1.25 mm steel.

Finish: RAL 7035 structured powder coating.

Delivery: 1 piece with mounting material.

Requirements: To be assembled on MSFCP or on MSMSM / MSMSF.

H	W	Front panel dimensions		Item no.
		h	w	
50	600	49	503	MSMBP0506R5
50	800	49	703	MSMBP0508R5
100	600	99	503	MSMBP1006R5
100	800	99	703	MSMBP1008R5
150	600	149	503	MSMBP1506R5
150	800	149	703	MSMBP1508R5
200	600	199	503	MSMBP2006R5
200	800	199	703	MSMBP2008R5
250	600	249	503	MSMBP2506R5
250	800	249	703	MSMBP2508R5
300	600	299	503	MSMBP3006R5
300	800	299	703	MSMBP3008R5
400	600	399	503	MSMBP4006R5
400	800	399	703	MSMBP4008R5
450	600	449	503	MSMBP4506R5
450	800	449	703	MSMBP4508R5
500	600	499	503	MSMBP5006R5
500	800	499	703	MSMBP5008R5
600	600	599	503	MSMBP6006R5
600	800	599	703	MSMBP6008R5



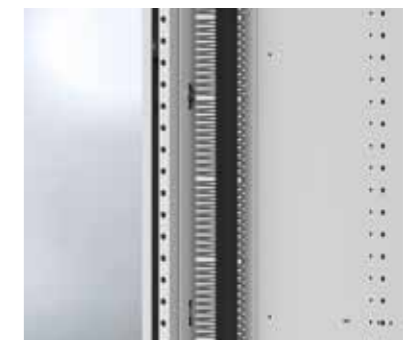
Finger guards, MSFG

Description: Accessory to avoid the access to the live parts through the cable openings in the internal side panels and mounting plates.

Material: ABS

Delivery: 2 pieces, 93 mm.

Item no.
MSFG2000



Floor Standing Enclosures

Accessories | Outgoing - Fix system

Internal side panels, MSPS

Description: Internal side panels to build up sections as from the enclosure frame. Frame hole pattern is needed in front, rear, top and bottom.

Material: 1.5 mm galvanized steel.

Delivery: 1 piece with mounting material.

For cables section

H	D	Side panel dimensions		Item no.
		h	w	
1800	300	1707	337	MSPS1803
1800	500	1707	537	MSPS1805
2000	300	1907	337	MSPS2003
2000	500	1907	537	MSPS2005
2200	300	2107	337	MSPS2203
2200	500	2107	537	MSPS2205

For incoming/outgoing sections

H	D	Side panel dimensions		Item no.
		h	w	
1800	600	1707	507	MSPS1806
1800	800	1707	707	MSPS1808
2000	600	1907	507	MSPS2006
2000	800	1907	707	MSPS2008
2200	600	2107	507	MSPS2206
2200	800	2107	707	MSPS2208

For incoming/outgoing sections with front opening

H	D	Side panel dimensions		Item no.
		h	w	
1800	600	1707	507	MSPS1806F
1800	800	1707	707	MSPS1808F
2000	600	1907	507	MSPS2006F
2000	800	1907	707	MSPS2008F
2200	600	2107	507	MSPS2206F
2200	800	2107	707	MSPS2208F

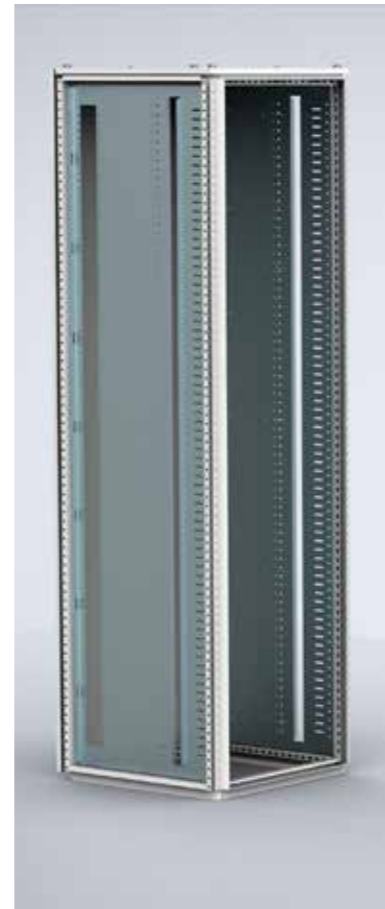
Fix system vertical profiles, MSFP

Description: Vertical profiles to build up fix systems. It can be mounted with or without sidepanels MSPS. These profiles lets us to mount MCCBs in mounting plates MSMPN, or DIN rails for modular components with the accessory fix MSADP or adjustable MSMPA01. The busbar supports in the rear of the compartments, MSFH, mount directly to the profile.

Material: 1.55 mm galvanized steel.

Delivery: 2 pieces with mounting material.

For enclosure	
H	Item no.
1800	MSFP1800
2000	MSFP2000
2200	MSFP2200



Mounting plates, MSMPN

Description: Mounting plate for installation of breakers. Suitable for left and right hand connections.

Material: 1.5 mm galvanized steel.

Pack quantity: 1 piece with mounting material.

Requirements: To be assembled on MSFP, or on MSMSM/MSMSF with MSMPA01.

Plain

H	W	Mounting plate dimensions		Item no.
		h	w	
50	600	46	470	MSMPN0506
50	800	46	670	MSMPN0508
100	600	96	470	MSMPN1006
100	800	96	670	MSMPN1008
150	600	146	470	MSMPN1506
150	800	146	670	MSMPN1508
200	600	196	470	MSMPN2006
200	800	196	670	MSMPN2008
250	600	246	470	MSMPN2506
250	800	246	670	MSMPN2508
300	600	296	470	MSMPN3006
300	800	296	670	MSMPN3008
400	600	396	470	MSMPN4006
400	800	396	670	MSMPN4008
450	600	446	470	MSMPN4506
450	800	446	670	MSMPN4508
500	600	496	470	MSMPN5006
500	800	496	670	MSMPN5008
600	600	596	470	MSMPN6006
600	800	596	670	MSMPN6008
600	1000	596	870	MSMPN6010

Horizontal opening

H	W	Mounting plate dimensions		Item no.
		h	w	
100	600	96	470	MSMPN1006H
100	800	96	670	MSMPN1008H

Vertical opening

H	W	Mounting plate dimensions		Item no.
		h	w	
150	600	146	470	MSMPN1506V
150	800	146	670	MSMPN1508V
200	600	196	470	MSMPN2006V
200	800	196	670	MSMPN2008V
250	600	246	470	MSMPN2506V
250	800	246	670	MSMPN2508V
300	600	296	470	MSMPN3006V
300	800	296	670	MSMPN3008V
400	600	396	470	MSMPN4006V
400	800	396	670	MSMPN4008V
450	600	446	470	MSMPN4506V
450	800	446	670	MSMPN4508V
500	600	496	470	MSMPN5006V
500	800	496	670	MSMPN5008V
600	600	596	470	MSMPN6006V
600	800	596	670	MSMPN6008V



Floor Standing Enclosures

Accessories | Outgoing - Fix system

DIN rails, MSDR

Description: Cut to size DIN rail ready to be installed. The simplified panel design makes procurement easier and reduces assembly time.

Material: Galvanized steel.

Pack quantity: 5 pieces.

Requirements: To be assembled on MSFP with the holders MSADP or with the adjustable brackets MSMPA01, or on MSMSM / MSMSF with the fixed brackets MSMPF01 or with the adjustable brackets MSMPA01.

For enclosure	
W	Item no.
600	MSDR0600
800	MSDR0800



Holders for DIN rails, MSADP

Description: Accessory to fix the DIN rail to the MSFP mounting profiles at the proper depth to have the standard distance between the DIN rail and the front panels.

Material: Reinforced polyester

Delivery: 10 pieces with mounting material.

Item no.
MSADP10



Adjustable brackets, MSMPA01

Description: A bracket to mount a DIN-rail or mounting plate which is adjustable in depth to allow for mounting of components in different sizes in the desired position. Panel builders can hold less stock and engineer with fewer item numbers thanks to the adjustable depth design.

Material: 2.5 mm galvanized steel, zamak.

Pack quantity: 2 pairs.

Requirements: To be assembled on MSFP, or on MSMSM/MSMSF.

Item no.
MSMPA01



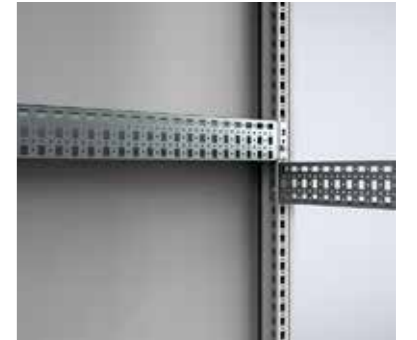
Click-in profiles, CLPK

Description: Universal profile for both depth and width fitting on the 25 mm DIN hole pattern of the enclosure's frame or in combination with the CLPF and VB profiles. The 75 mm wide profile is equipped with three rows of holes of which one is turned 90°. This makes it possible to mount the CLPF profiles in both directions. The CLPK can be secured by the use of self tapping screws.

Material: 1.5 mm zinc plated steel.

Pack quantity: 4 profiles.

For enclosure		
W/D	Max. loading	Item no.
400	1600 N	CLPK400
600	1600 N	CLPK600
800	1200 N	CLPK800
1000	1200 N	CLPK1000



Mounting profiles, CLPF

Description: The CLPF profile system is a 40 mm wide and 25 mm high profile, which can be mounted in all directions on the enclosure's frame. It can also be used in combination with the CLPK and the VB profiles. By turning the profile it can be used as a standard CP20/40 profile in combination with GLM 40/6 sliding nuts, to mount installation material which needs adjusting in depth. The profiles, when mounted onto the enclosure's frame are flush with the enclosure's profiles. Two rows of hole patterns for cage nut fixing and self tapping screws are provided. For 90 mm wide profiles two profiles can be mounted next to each other.

Material: Zinc plated steel.

Pack quantity: 4 profiles including fixing accessories.

For enclosure				
H/W	W/D	Max. loading Horizontal C	Max. loading Horizontal []	Item no.
400	400	800 N	1000 N	CLPF400
600	600	800 N	1000 N	CLPF600
800	800	800 N	1000 N	CLPF800
1000	1000	800 N	1000 N	CLPF1000



Floor Standing Enclosures

Accessories | Outgoing - Fix system

Adjustment profiles, APK

Description: Width profiles which allows for continuous adjustment of fixation cage nuts for components in height, depth and width. Panel builders can then fix any component in the desired position without machining.

Material: 2.5 mm galvanized steel.

Pack quantity: 2 pairs.

Requirements: To be assembled on CLPF depth profiles.



For enclosure		Item no.
W		
600		APK600
800		APK800

Front cover profiles, MSFCP

Description: Front frame built up by two vertical and two horizontal profiles. To be covered by front panels MSMBP or MSMCP.

Material: 1.5 mm galvanized steel.

Finish: RAL 7035 structured powder coating.

Delivery: 2 vertical profiles, top and bottom profiles, and mounting material.



For enclosure		
H	W	Item no.
1800	600	MSFCP1806R5
1800	800	MSFCP1808R5
2000	600	MSFCP2006R5
2000	800	MSFCP2008R5
2200	600	MSFCP2206R5
2200	800	MSFCP2208R5

Slotted front panels, MSMCP

Description: Slotted front panel for modular assemblies. Provided with one DIN rail per row for modular components. It has a top and bottom bending to provide extra rigidity.

Material: 1.25 mm steel.

Finish: RAL 7035 structured powder coating.

Delivery: 1 piece with mounting material.

Requirements: To be assembled on MSFCP, or on MSMSM / MSMSF.



H	W	No. of rows	DIN modules	Item no.
150	600	1	25	MSMCP1506R5
150	800	1	36	MSMCP1508R5
200	600	1	25	MSMCP2006R5
200	800	1	36	MSMCP2008R5
300	600	1	25	MSMCP3006-1R5
300	800	1	36	MSMCP3008-1R5
300	600	2	50	MSMCP3006-2R5
300	800	2	72	MSMCP3008-2R5
450	600	3	75	MSMCP4506R5
450	800	3	108	MSMCP4508R5
600	600	4	100	MSMCP6006R5
600	800	4	144	MSMCP6008R5

Blanking plates for DIN slots, TB13G

Description: Blanking plate to cover the unused space in the DIN slots. Can be divided per half a module.

Material: Plastic.

Finish: RAL 7035.

Pack quantity: 10 pieces of blanking plate 13 mod.. Overall length 234 mm.



Item no.
TB13G

Floor Standing Enclosures

Accessories | Outgoing - Fix system

Plain front panels, MSMBP

Description: Plain front panel for modular assemblies. It has a top and bottom bending to provide extra rigidity.

Material: 1.25 mm steel

Finish: RAL 7035 structured powder coating.

Delivery: 1 piece with mounting material.

		Front panel dimensions		
H	W	h	w	Item no.
50	600	49	503	MSMBP0506R5
50	800	49	703	MSMBP0508R5
100	600	99	503	MSMBP1006R5
100	800	99	703	MSMBP1008R5
150	600	149	503	MSMBP1506R5
150	800	149	703	MSMBP1508R5
200	600	199	503	MSMBP2006R5
200	800	199	703	MSMBP2008R5
250	600	249	503	MSMBP2506R5
250	800	249	703	MSMBP2508R5
300	600	299	503	MSMBP3006R5
300	800	299	703	MSMBP3008R5
400	600	399	503	MSMBP4006R5
400	800	399	703	MSMBP4008R5
450	600	449	503	MSMBP4506R5
450	800	449	703	MSMBP4508R5
500	600	499	503	MSMBP5006R5
500	800	499	703	MSMBP5008R5
600	600	599	503	MSMBP6006R5
600	800	599	703	MSMBP6008R5



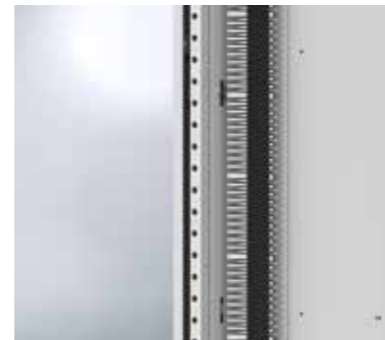
Finger guards, MSFG

Description: Accessory to avoid the access to the live parts through the cable openings in the internal side panels and mounting plates.

Material: ABS

Delivery: 2 pieces, 93 mm.

Item no.
MSFG2000



Internal segregation horizontal plates, MSIS

Description: Pre-sized horizontal separation plates between the mounting level and the front panels. Slides easily into place and let us to get Form 4 compartments for MCB's and MCCB's. No screws need.

Material: 3 mm reinforced polycarbonate.

Delivery: 1 piece.

For enclosure		
W		Item no.
600		MSIS600
800		MSIS800



External segregation horizontal plates, MSES

Description: Pre-sized horizontal separation plates between the mounting level and the front door. Slides easily into place and let us to get Form 4 compartments for MCB's and MCCB's. No screws need.

Material: 3 mm reinforced polycarbonate.

Delivery: 1 piece.

For enclosure		
W		Item no.
600		MSES600
800		MSES800



Cable entrance boxes, MSCE

Description: Steel cable entrance box which lets us to build up a system with the terminations to functional unit separated from each other, meeting the Form 4. With the MSCE each functional unit (compartment) has its own integral glanding facility.

Material: 1.25 mm galvanized steel.

Delivery: 1 piece, grommets for the cables holes, and mounting material.

H	Item no.
150	MSCE150
200	MSCE200
250	MSCE250
300	MSCE300



Floor Standing Enclosures

Accessories | Outgoing - Fix system

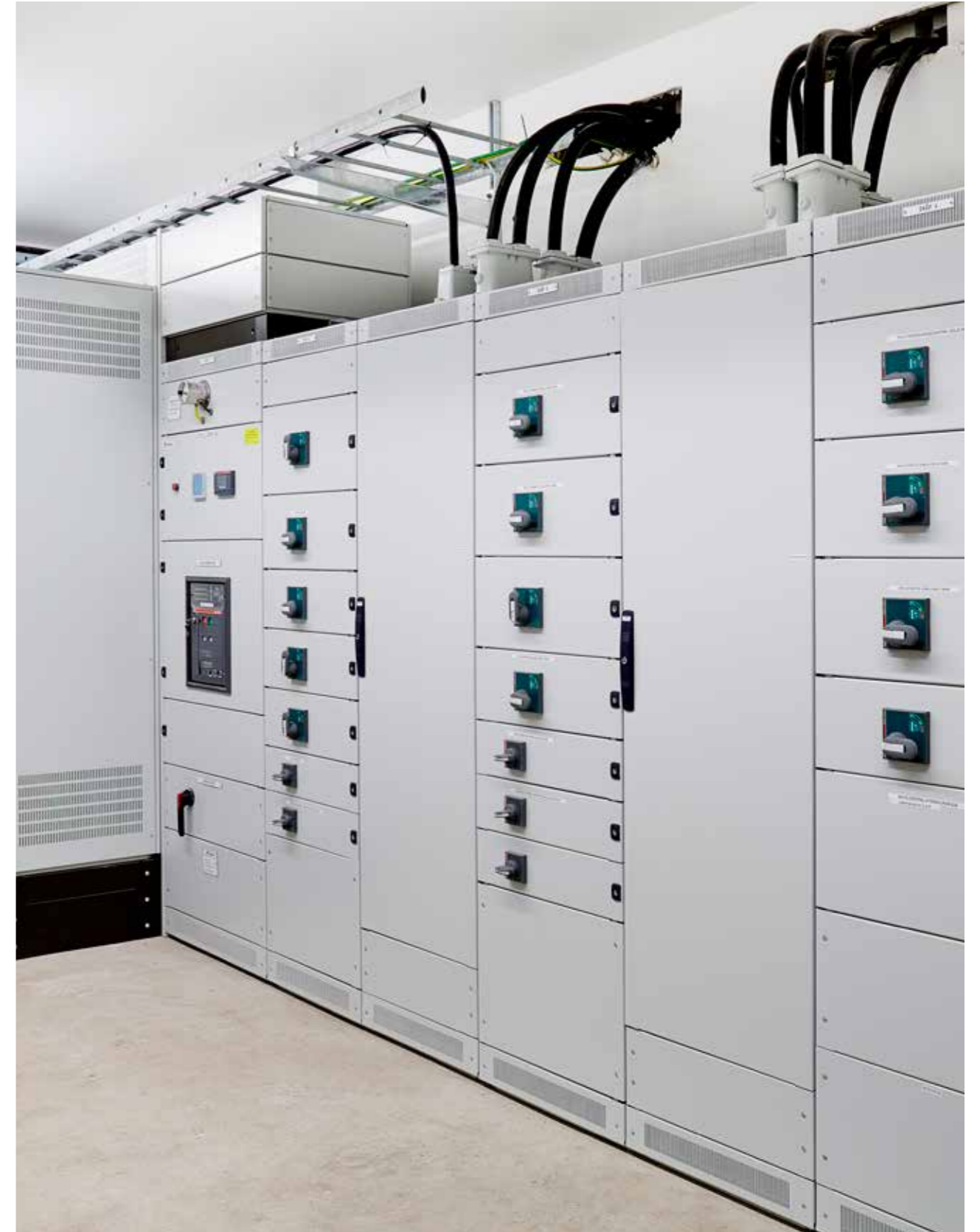
Bracket measuring trafos , MSCEP

Description: Brackets to be fixed into the cable entrance box to mount the measuring equipment of the outgoing compartment.

Material: 2 mm galvanized steel

Pack quantity: 1 piece with mounting material

H	Item no.
150	MSCEP150
200	MSCEP200
250	MSCEP250



Floor Standing Enclosures

Accessories | Outgoing - Plug-in system

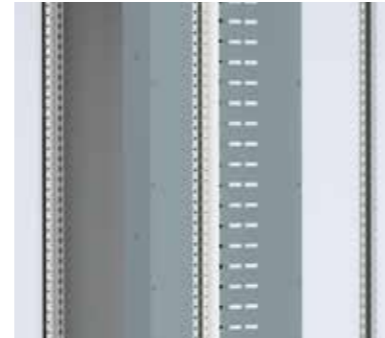
Rear cover plates for plug-in sections, MSSB

Description: Rear cover plate to separate the plug-in sections from the plug-in busbars. It includes the profiles in which the rear plate is fixed, and in which the busbar holders must be fixed too.

Material: 3 mm reinforced polycarbonate and 2 mm galvanized steel.

Delivery: 1 rear panel, 2 vertical profiles to fix the back plate and busbar supports and mounting material.

For enclosure		Rear plate dimensions		Item no.
H	W	h	w	
1800	600	1797	506	MSSB1806
2000	600	1997	506	MSSB2006
2200	600	2197	506	MSSB2206



Compartments for plug-in connection, MSCP

Description: Compartment for plug-in connection to the MSBS vertical busbar placed behind the compartments.

Material: 2 mm galvanized steel

Delivery: 1 piece with mounting material

H	W	Item no.
150	600	MSCP01506
200	600	MSCP02006
250	600	MSCP02506
300	600	MSCP03006



Mounting plates for compartments, MSCM

Description: Mounting plate to be mounted in the plug-in compartment MSCP. The mounting plate has two vertical cable openings for the incoming, one in each size.

Material: 2 mm galvanized steel

Delivery: 1 piece, the fixing screws are included in the MSCP kit.

H	W	Mounting plate dimensions		Item no.
		h	w	
150	600	117	507	MSCM01506
200	600	167	507	MSCM02006
250	600	217	507	MSCM02506
300	600	267	507	MSCM03006



Top covers for plug-in compartments, MSCH

Description: Plate to cover the upper compartment. All the others compartments are covered by the bottom plate of the compartment above.

Material: 2 mm galvanized steel

Delivery: 1 piece with mounting material

W	D	Top cover dimensions		Item no.
		w	d	
600	300	510	283	MSCH0604



Cable entrance boxes, MSCE

Description: Steel cable entrance box which lets us to build up a system with the terminations to functional unit separated from each other, meeting the Form 4. With the MSCE each functional unit (compartment) has its own integral glanding facility.

Material: 1.25 mm galvanized steel

Delivery: 1 piece, grommets for the cables holes, and mounting material.

H	Item no.
150	MSCE150
200	MSCE200
250	MSCE250
300	MSCE300



Bracket measuring trafos, MSCEP

Description: Brackets to be fixed into the cable entrance box to mount the measuring equipment of the outgoing compartment.

Material: 2 mm galvanized steel

Pack quantity: 1 piece with mounting material

H	Item no.
150	MSCEP150
200	MSCEP200
250	MSCEP250



Floor Standing Enclosures

Accessories | Cabling

Side plates for cable section, MSPM

Description: Separation plate to segregate the front space in the cable section from the busbar space. It include the profiles in which the separation plate is fixed, and in which the fixation cables profiles MSCFR / MSCFS must be fixed too.

Material: 3 mm reinforced polycarbonate and 1.5 mm galvanized steel.

Pack quantity: 2 vertical profiles to fix the separation plate and mounting material.

For enclosure			
H	W		Item no.
1800	400		MSPM1804
1800	400		MSPM1804E
1800	600		MSPM1806
1800	600		MSPM1806E
2000	400		MSPM2004
2000	400		MSPM2004E
2000	600		MSPM2006
2000	600		MSPM2006E
2200	400		MSPM2204
2200	400		MSPM2204E
2200	600		MSPM2206
2200	600		MSPM2206E

* If cable section is installed between 2 outgoing sections, MSPMxxxxE separation plates must be used



Rear cable fixation profiles, MSCFR

Description: Profiles to fix the cables easily in the rear part of the cable section, the profiles must be fixed in the MSPM.

Material: 2 mm galvanized steel.

Delivery: 5 pieces with mounting material.

For enclosure		Item no.
W		
400		MSCFR400
600		MSCFR600



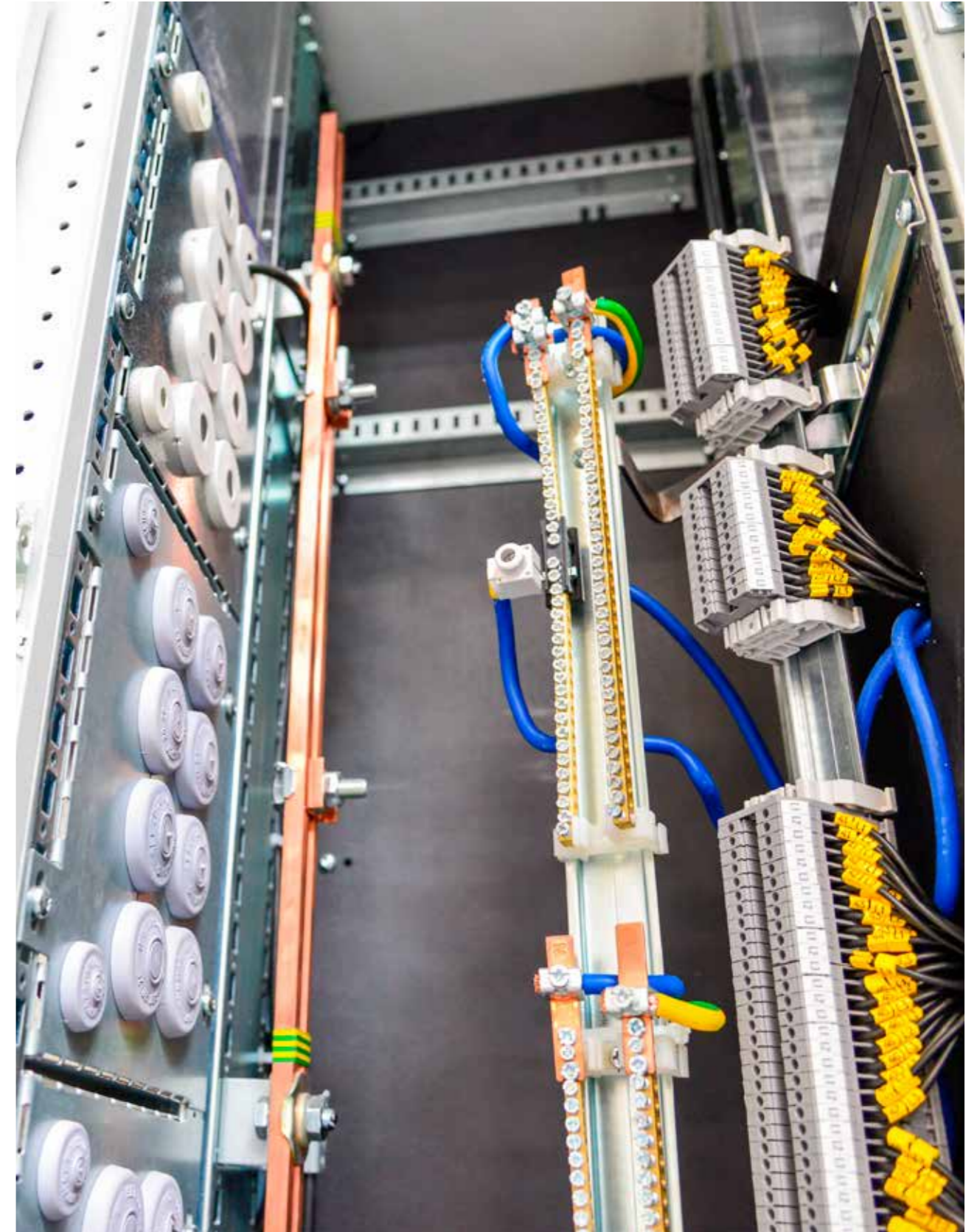
Side cable fixation profiles, MSCFS

Description: Profiles to fix the cables easily in the side part of the cable section, the profiles must be fixed in the MSPM.

Material: 2 mm galvanized steel.

Delivery: 5 pieces with mounting material.

For enclosure		Item no.
D		
600		MSCFS600
800		MSCFS800



Floor Standing Enclosures

Accessories | Busbar

Main busbar supports horizontal, MSHS

Description: Busbar supports up to 3600 A to be mounted horizontally behind the compartments. Mounts to the internal side panels MSPS, and in the height position which we need. Supports for single or double bar per phase for bar thickness 10 mm and width from 10 to 120 mm. Distance between bars of 20 mm.

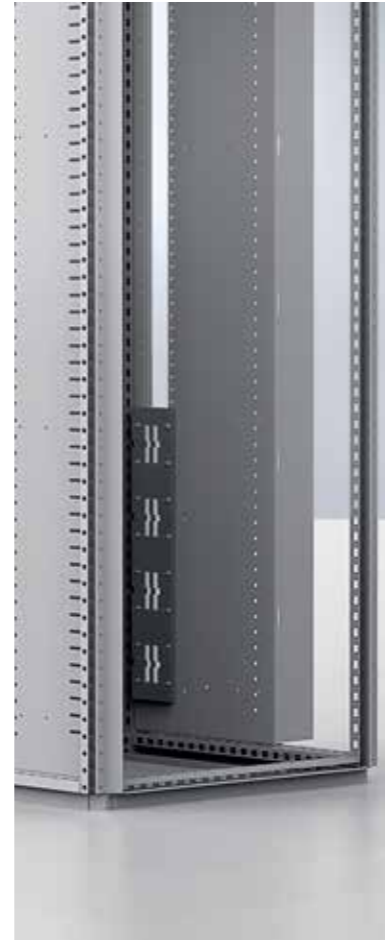
Material: Polycarbonate reinforced with 10% of glass material

Delivery: Busbar support for 3 phases and neutral and mounting material.

H	W	Bars per phase	Item no.
300	95	2x(10x10)	MSHS401010
380	95	2x(20x10)	MSHS402010
420	95	2x(30x10)	MSHS403010
460	95	2x(40x10)	MSHS404010
540	95	2x(50x10)	MSHS405010
540	95	2x(60x10)	MSHS406010
620	95	2x(80x10)	MSHS408010
700	95	2x(100x10)	MSHS410010
780	95	2x(120x10)	MSHS412010

Short-circuit withstand current (kA)										Item no.
Distance between supports										
400 mm			600 mm			800 mm				
Peak	RMS 1s	RMS 3s	Peak	RMS 1s	RMS 3s	Peak	RMS 1s	RMS 3s		
42	20	10	42	13	10	21	10	10	MSHS401010	
63	30	15	42	20	15	32	15	15	MSHS402010	
132	60	19	97	44	19	69	33	19	MSHS403010	
132	60	21	105	48	21	76	36	21	MSHS404010	
132	60	23	123	52	23	82	39	23	MSHS405010	
132	60	24	123	56	24	88	42	24	MSHS406010	
132	60	28	132	60	28	101	48	28	MSHS408010	
132	60	33	132	60	33	125	57	33	MSHS410010	
132	60	35	132	60	35	132	60	35	MSHS412010	

* The rated current is included in Table AD 3 of the EPS Manual.



Universal busbar supports, EUBS

Description: Busbar support up to 4500 A to be mounted horizontally or vertically. Mounts directly to the enclosure frame or with help of CLPF profiles. Available in one/two/three bars per phase for bar thickness 10 mm, and width from 30 to 120 mm.

Working temperature: -40 °C up to 130 °C.

Material: Reinforced polyamide and steel. Halogen free.

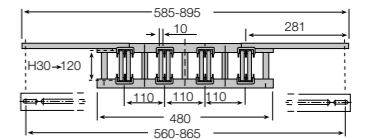
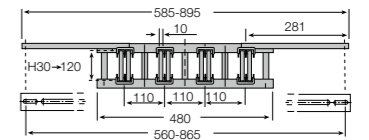
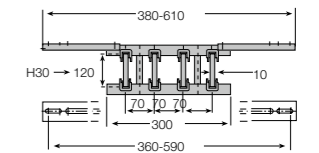
Delivery: Busbar support with mounting material.

Item no.	
EUBS110TN	
EUBS210TN	
EUBS310TN	

		EUBS110TN										
		Ipk KA Icc rms KA 1s										
		mm	24	48	63	82	114	145	152	165	187	209
			12	23	30	39	52	66	69	75	85	95
1 bar per phase	30	10	1000	540	414	318	228	179	172	158	129	103
	40	10	1000	630	483	372	266	209	200	169	132	105
	50	10	1000	714	530	421	301	224	205	173	135	108
	60	10	1000	793	532	467	334	230	211	178	139	111
	80	10	1000	943	537	503	377	245	224	189	147	118
	100	10	1000	1000	543	506	393	261	239	202	157	126
120	10	1000	1000	548	510	410	278	254	215	167	134	

		EUBS210TN											
		Ipk KA Icc rms KA 1s											
		mm	24	48	63	82	114	145	152	165	187	209	231
			12	23	30	39	52	66	69	75	85	95	105
1 bar per phase	30	10	1000	672	515	396	283	223	214	196	173	155	140
	40	10	1000	780	598	460	329	259	248	228	201	180	163
	50	10	1000	877	672	517	370	291	279	256	226	202	167
	60	10	1000	967	741	540	408	321	307	283	249	207	169
	80	10	1000	1000	869	543	478	377	360	332	267	213	175
	100	10	1000	1000	989	546	501	417	393	352	276	221	181
2 bars per phase	120	10	1000	1000	1000	555	503	427	403	361	287	230	188
	30	10	1000	571	438	337	241	190	181	167	147	132	119
	40	10	1000	685	525	404	289	227	218	200	176	158	143
	50	10	1000	792	607	467	334	263	252	232	204	183	165
	60	10	1000	896	687	528	378	298	285	262	231	207	187
	80	10	1000	1000	838	644	461	363	347	320	282	252	228
100	10	1000	1000	982	755	523	426	407	375	331	296	264	
120	10	1000	1000	1000	863	526	487	465	428	378	335	274	

		EUBS310TN											
		Ipk KA Icc rms KA 1s											
		mm	24	48	63	82	114	145	152	165	187	209	231
			12	23	30	39	52	66	69	75	85	95	105
1 bar per phase	30	10	1000	672	515	396	283	223	214	196	173	155	140
	40	10	1000	780	598	460	329	259	248	228	201	180	163
	50	10	1000	877	672	517	370	291	279	256	226	202	178
	60	10	1000	967	741	546	408	321	307	283	249	211	180
	80	10	1000	1000	869	549	478	377	360	332	284	228	186
	100	10	1000	1000	989	569	504	429	410	367	295	236	193
2 bars per phase	120	10	1000	1000	1000	592	506	446	420	377	306	245	200
	30	10	1000	571	438	337	241	190	181	167	147	132	119
	40	10	1000	685	525	404	289	227	218	200	176	158	143
	50	10	1000	792	607	467	334	263	252	232	204	183	165
	60	10	1000	896	687	528	378	298	285	262	231	207	187
	80	10	1000	1000	838	644	461	363	347	320	282	252	219
3 bars per phase	100	10	1000	1000	982	755	513	426	407	375	331	278	228
	120	10	1000	1000	1000	863	516	487	465	420	357	289	237
	30	10	1000	685	525	404	289	228	218	200	177	158	143
	40	10	1000	816	625	481	344	271	259	238	210	188	170
	50	10	1000	939	720	554	396	312	298	275	242	217	196
	60	10	1000	1000	811	615	446	351	336	309	273	244	208
80	10	1000	1000	984	637	510	427	408	375	330	264	216	
100	10	1000	1000	1000	662	512	481	453	406	343	274	224	
120	10	1000	1000	1000	1000	515	491	466	417	354	286	234	



Floor Standing Enclosures

Accessories | Busbar

Compact busbar support, ECBS

Description: Busbar support up to 1600 A to be mounted horizontally or vertically. Mounts directly to the enclosure frame or with help of CLPF profiles. Available in single and double bar per phase for bar thickness 5 mm and only single bar per phase for bar thickness 10 mm, and width from 25 to 80 mm.

Working temperature: -40° C up to 130° C.

Material: Reinforced polyamide and steel. Halogen free.

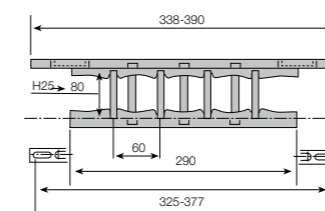
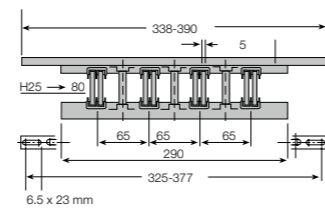
Delivery: Busbar support with mounting material.



Item no.	
ECBS205TN	
ECBS110TN	

ECBS205TN								
	mm		Ipk KA Icc rms KA 1s					
			11	24	48	63	82	114
			6,5	12	23	30	39	52
1 bar per phase	25	5	1000	477	237	182	140	100
	30	5	1000	525	261	200	154	110
	40	5	1000	614	305	234	180	114
	50	5	1000	696	346	265	204	117
	63	5	1000	797	365	303	233	122
2 bars per phase	25	5	894	411	204	156	120	86
	30	5	1000	465	231	177	136	97
	40	5	1000	568	282	216	166	119
	50	5	1000	666	331	254	195	139
	63	5	1000	789	378	300	231	160
80	5	1000	944	382	356	276	169	

ECBS110TN								
	mm		Ipk KA Icc rms KA 1s					
			11	24	48	63	82	
			6,5	12	23	30	39	
1 bar per phase	25	10	1000	918	456	349	269	
	30	10	1000	1000	502	385	296	
	40	10	1000	1000	512	451	314	
	50	10	1000	1000	513	470	324	
	60	10	1000	1000	516	481	336	
	80	10	1000	1000	520	492	356	



Vertical rear busbar supports, MSFH

Description: Busbar supports up to 1600 A to be mounted vertically behind the fixed compartments. Mounts to the vertical profiles MSFP. Rated short-time withstand current up to 35 kA with rear supports and up to 50 kA with rear and front supports.

Material: Polycarbonate reinforced with 10% of glass material.

Delivery: 7 busbar supports for 3 phases and neutral, and mounting material.



For enclosure		Item no.
W		
600		MSFH06

* The rated current is included in Table AD 3 of the EPS Manual.

Vertical plug-in busbar supports, MSVH

Description: Busbar supports up to 1600 A to be mounted vertically behind the plug-in compartments. Rated short-time withstand current up to 35 kA with rear supports and up to 50 kA with rear and front supports. Mounts to the vertical profiles included in the rear cover plate for plug-in sections MSSB.

Material: Polycarbonate reinforced with 10% of glass material.

Delivery: 4 busbar support with mounting material.



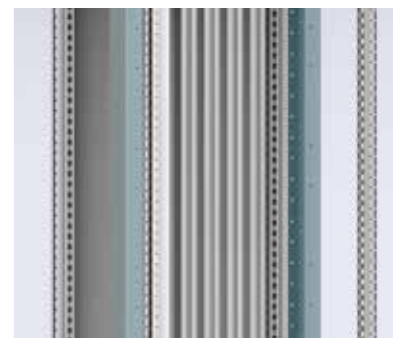
Item no.	
MSVH1800	
MSVH2000	
MSVH2200	
MSVH1800F	
MSVH2000F	
MSVH2200F	

Plug-in busbar, MSBS

Description: Vertical busbar to build up the plug-in system. The MSBS bars are fixed in the MSVH supports with standard bolts, washers and nuts. The rated current can be increased up to 2 x 1400 A if the incoming connection is in the middle.

Material: Tin plated aluminium

Delivery: 4 pieces of busbars



For enclosure	Mounting plate dimensions		In (A)	Icw (kA)	Item no.
H	h				
1800	1572		Up to 1400 A	Up to 50 kA	MSBS41418
2000	1772		Up to 1400 A	Up to 50 kA	MSBS41420
2200	1972		Up to 1400 A	Up to 50 kA	MSBS41422

Floor Standing Enclosures

Accessories | Busbar

Rear busbar support fixation, MSBF

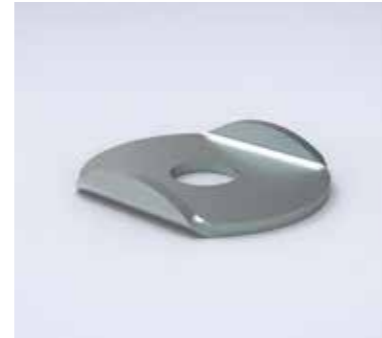
Description: Saddle to fix the bars to the rear busbar support, with its special design helps us to fix properly the bars to the support. The bolts, washers and nuts must be ordered separately.

Material: 2 mm zinc plated steel.

Delivery: 20 pieces.

Item no.

MSBF20



Saddle for busbar connection, MSBC

Description: Saddle to make the bars connection, with its special design helps us to make the bars connection properly, making it easier. The bolts, washers and nuts must be ordered separately.

Material: 2 mm zinc plated steel.

Delivery: 20 pieces.

Item no.

MSBC20



Holder for busbar connection, MSBH

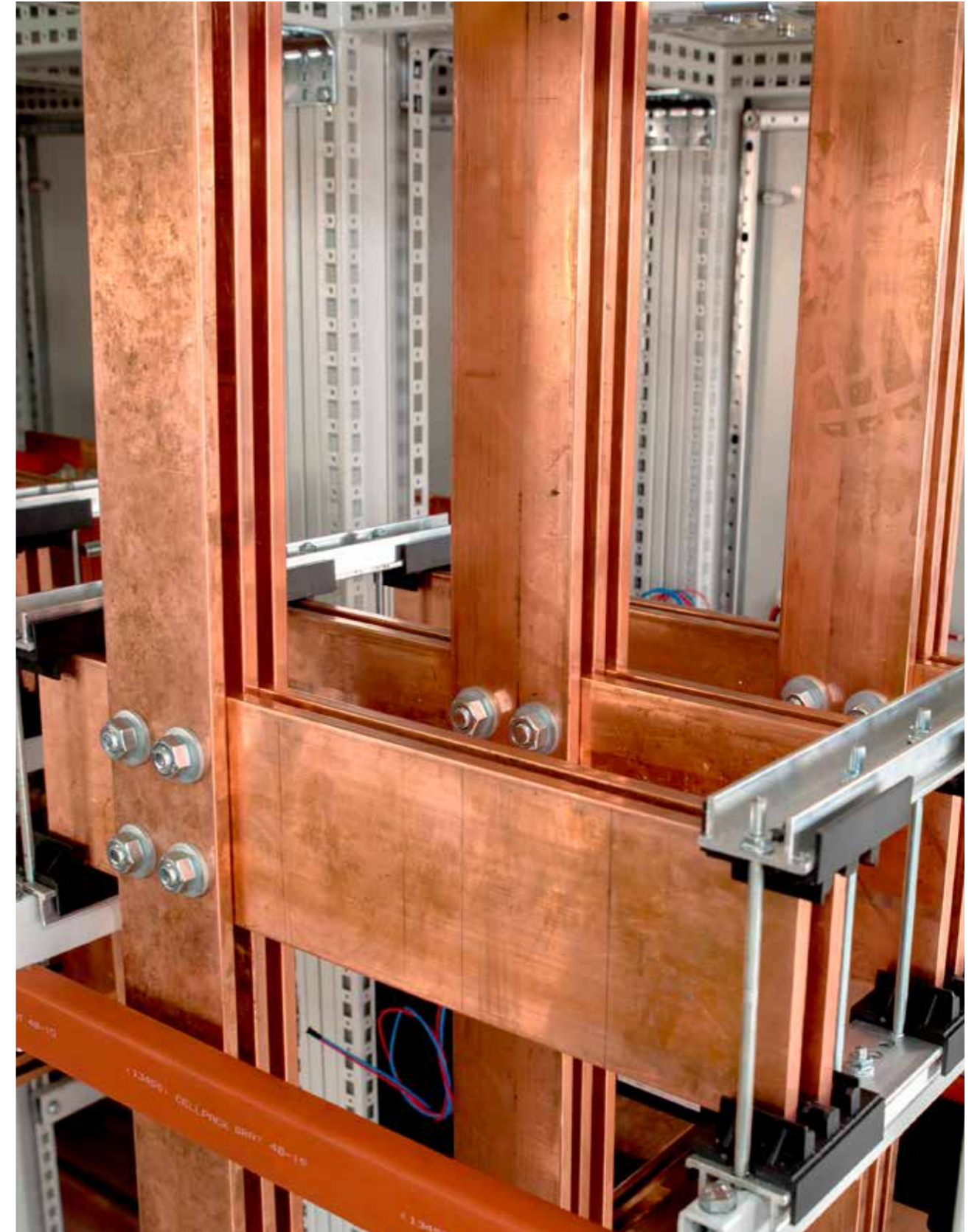
Description: Cooper holder for busbar connection, which guarantee a perfect connection between main busbar and secondary busbar.

Material: 2 mm cooper.

Delivery: 20 pieces.

Item no.

MSBH20



Floor Standing Enclosures

Accessories | Control

Mounting plates, MP

- Description:** Standard mounting plate. It can also be mounted on the side of an enclosure by using MPS kit or slid in from the side with the MTS profile. For heavy loads in vibrating environments use mounting plate reinforcement profile MPR and MPE or MPEF brackets.
- Maximum load:** 6000 N.
- Material:** 3 mm galvanized steel.
- Mounting requirement:** Use MPA for mounting the MP inside the enclosure. Adjustable in depth with MPD accessory.
- Pack quantity:** 1 piece.

For enclosure		Mounting plate dimensions			Item no.
H	W	h	w		
1800	600	1694	494	MP1806	
1800	800	1694	694	MP1808	
1800	1000	1694	894	MP1810	
1800	1200	1694	1094	MP1812	
2000	600	1894	494	MP2006	
2000	800	1894	694	MP2008	
2000	1000	1894	894	MP2010	
2000	1200	1894	1094	MP2012	
2200	600	2094	494	MP2206	
2200	800	2094	694	MP2208	
2200	1000	2094	894	MP2210	
2200	1200	2094	1094	MP2212	



Partial height mounting plates, MPP

- Description:** Mounted directly on the enclosure's frame or onto the click-in profiles (CLPK). Special design of the bracket allows one man mounting. Can be mounted in any height or depth position within the 25 mm hole pattern. Appropriate sizes can also be used on the sides of the enclosure.
- Material:** 3 mm galvanized steel.
- Pack quantity:** 1 plate with mounting accessories.
- Mounting requirement:** Add CLPK for depth adjustment.
- Note:** MPP can be mounted in both directions.

For enclosure					Item no.
H/W	W/H	h/w	w/h		
600	400	494	294	MPP0604	
600	600	494	494	MPP0606	
600	800	494	694	MPP0608	
600	1000	494	894	MPP0610	
800	400	694	294	MPP0804	
800	800	694	694	MPP0808	
1000	400	894	294	MPP1004	
1000	800	894	694	MPP1008	
1200	400	1094	294	MPP1204	
1200	600	1094	494	MPP1206	



Mounting plate brackets, MPA

- Description:** To fix mounting plates in the enclosure, including brackets for depth adjustment in steps of 25 mm. Brackets are needed when an extra mounting plate is required or when the enclosure is ordered without mounting plate (PE).
- Material:** 3 mm zinc plated steel.
- Pack quantity:** 2 top brackets, 2 bottom sliding brackets and 2 adjustment brackets with mounting accessories.

Item no.
MPA06



Power System Software

nVent HOFFMAN has developed a new software tool for low voltage switchgear design for electrical engineering companies involved in the manufacturing of low-voltage switchgear.



With the help of the EPS Software, the design engineer can avoid any mistakes when choosing the right components and materials required to build the panel. Pre-defined groups of components can be arranged to reduce the work even more. Busbar size selection with the necessary number of busbar supports to comply with system requirements can also be defined in the Tool.

The Tool also supports thermal analysis to ensure that the temperature rise is not higher than recommended.

The cost calculation is speeded up as well since the Tool, together with the all documents needed for the quotation process, will generate an Excel-file with all items needed for the construction of the panel.

The tool allows for generation of different views of the panel to show what it will look like in the end. The views shown can be external with front covers and internal with the busbars, for example.

In addition, a layout plan may be created to define the fixation requirements for when the panel is installed in the field.

Take the opportunity now and run the **Power System Software** to:

- Make the design work of your switchgear project easier and smoother
- Ensure the right components and accessories are selected
- Get a list of equipment easily
- Get drawings in different views and a layout plan.



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