Electrical installation solutions for buildings

General purpose enclosures

Index

Switchboards for industrial applications	
with black front	22/2
MultiBox - Small multi-purpose boxes	22/7
APO - Modular polyester boxes	22/14
VMS - Modular system	22/26
ARIA - Universal polyester enclosures	22/44
PolySafe - Multi-function	
polyester enclosures	22/52
Accessories	22/66
Characteristics of Gemini switchboards	22/96
Basic configuration - Gemini switchboards	22/100
Components for automation applications	22/103
Components for distribution and	
mixed applications	22/108
Accessories	22/116
Fast selection table	22/121
Configurations examples	22/124
General characteristics of SR2 Enclosures	22/128
Selection table - SR2 enclosures	22/131
Ordering codes - SR2 enclosures	22/132
Overall dimensions - Drillings SR2	22/149
General characteristics	
and applications - SRX enclosures	22/150
Selection of the structure - SRX enclosures	22/152
Ordering codes - SRX enclosures	22/153
Overall dimensions - Drillings SRX	22/163

Switchboards for industrial applications with blank front



General purpose enclosures Switchboards for industrial applications with blank front

Technical characteristics

- protection degree IP 65
- insulation class II 回
- available in RAL 7035 grey
- available in the versions with transparent, smoky doors
- in polycarbonate material, self-extinguishing and resistant to abnormal heat and fire up to 960 °C (glow wire flammability index) in compliance with IEC 60695-2-11 Standard
- installation temperature from -25 °C to +60 °C
- resistant to heat: ball thermopressure up to +125 $^{\circ}\mathrm{C}$ in compliance with EN 60695-10-2 Standard
- shock resistance 20 Joules (IK level 10)
- perfectly symmetrical switchboards with possibility of hinging the door onto the front (by means of the special articulated screws supplied) on the right or left with 140° opening

- doors designed to take lock with coded key, code 12 866 all models (except for code 13 200) are fitted with one rigid and one bi-material flange for the facilitated insertion of conduits and cables
- switchboards made and produced in compliance with CEI 23-49 (1996) + V1 + V2, CB certificate IEC 60670-24 Standards
- switchboards are supplied complete with:
- 4 screw-cover caps to guarantee 回
- accessories for hinging the front part
- 1 self-adhesive indicator strip per row
- 1 certification plate
- instruction sheet
- use 3.5×9.5 self-tapping screws to fix the components on the back



Switchboards for industrial applications with blank front



Transparent, smoky door – 12 modules

RAL 7035 grey		
Dimensions W×H×D [mm]	Order code	Box/pack No items
275x370x140	13 204	1/4



Transparent, smoky door – 12 modules

RAL 7035 grey		
Dimensions W×H×D [mm]	Order code	Box/pack No items
275x455x140	13 205	1/3



Transparent, smoky door – 18 modules

RAL 7035 grey		
Dimensions W×H×D [mm]	Order code	Box/pack No items
380x570x140	13 208	1/2

Switchboards for industrial applications with blank front – Accessories



Terminal blocks

The complete terminal blocks are composed of a combination of terminal holders and terminal bars as indicated in the description, with the terminal bars already mounted on terminal holders.

Configuration of the complete terminal block is standard. For different requirements (customized terminal block), the terminal holders and bars must be procured separately in the versions indicated in the table.

Description	Order code	Box/pack No items
for 12 modules – composed of 12540×1 + 12531×1 + 12532×1	12 492	10/40
for 18 modules – composed of 12543×1 + 12531×1 + 12535×1	12 498	10/40

Terminal holders

The terminal block is completed by combining the necessary terminal bars to the terminal holders, taking care to keep the terminal bars separate from each other.

For switchboards type	Description	Order code	Box/pack No items
13 204 - 13 205 - 13 206	for 12 modules	12 540	12/144
13 208	for 18 modules	12 543	12/108



Terminal bars

The terminal bars can be installed on any kind of terminal holder; they are snapped onto these with 2 clips for bar, through two holes made at the ends of the bar itself.

Description No of holes × \emptyset holes (mm) + No of holes × mm ²	Order code	Box/pack No items
5×16	12 531	20/240
10×16 + 3×25	12 532	20/240
16×16 + 3×25	12 533	20/240
15×16 + 6×25	12 534	20/240
19×16 + 6×25	12 535	20/240

Terminal holders and terminal bars are supplied separately. In this way, by inserting one or two terminal bars into the terminal holder you can create the best terminal for your requirements, with the advantage of obtaining a terminal block that is cheap as well as personalised, due to the fact that you only need to use material that is really necessary. Some standard configurations are illustrated in the table.

All the possible configurations that can be created for each type of consumer unit are given in the technical details.

Switchboards for industrial applications with blank front – Accessories



Wall brackets		
Description	Order code	Box/pack No items
In insulating material	12 858	20/240

Universal cutter

Module covers

Description	Order code	Box/pack No items
For drill	12 894	1/30

HERE HERE HERE



No modules	Colour	Order code	Box/pack No items
1	RAL 7035 grey	12 861	50/1500
4	RAL 7035 grey	12 863	25/300

Spare flanges		
For switchboards type	Order code	Box/pack No items
13 204 – 13 205 – 13 206, bi-material	12 601	20/80
13 208, bi-material	12 602	20/80
13 204 - 13 205 - 13 206, rigid flange	1SL0551A00	20/80
13 208, rigid flange	1SL0552A00	20/80



Key lock		
Description	Order code	Box/pack No items
Coded type	12 866	10/300

MultiBox - Small multi-purpose boxes for all types of application



MultiBox

Applications

- Ideal for industrial automation and control, machinery and OEM.
- Electronic applications in the telecommunications industry.
- May also be used in tertiary and energy distribution applications.

Standard: EN/IEC 60670-22 (Polystyrene), EN/IEC 61439-3 (Polycarbonate)

Specifications and advantages

- 11 different sizes of box are available (from 65 x 65 mm up to 361 x 254 mm) plus 3 different cover heights.
- Material: polystyrene or polycarbonate reinforced with glass fiber.
- Color: RAL 7035 gray
- High protection rating, IP66-IK07 for polystyrene and IP66-IK08 for polycarbonate, thanks to the injected polyurethane gasket.
- Polycarbonate boxes are available with a smooth surface (one single entry) or with multiple metric cutouts.
- Polystyrene boxes are available with a smooth surface or with multiple metric cutouts.
- Opaque gray or transparent covers available in various heights.
- Designed for installation on all types of surface.
- · Vertical and horizontal coupling.
- Polystyrene boxes (glow wire tested to 650°C) can withstand temperatures of up to +70°C, polycarbonate boxes (glow wire tested to 950°C) can withstand temperatures of up to +120°C.
- Total insulation 🗆.
- High level of resistance to chemical and aggressive environments.
- Halogen-free.
- Self-extinguishing (UL94-V2).
- Insulation voltage Ui = 1000 V

Why choose MultiBox?

Would you prefer a standard product or a custom one?

Or, would you prefer a "turnkey" solution (assembled/wired)?

ABB can offer you custom products and comprehensive solutions to meet your requirements!



Only for polycarbonate boxes (Available upon request)

Standards/Certification

MultiBox - Small boxes for all types of application

	—в		
-	A —		
			7
dinner Banner		_	





		Polystyrene		Polycarbonate	2(1)			
		Gray cover RAL 7035		Gray cover RAL 7035		Cover transparent		
Back box	Depth	Туре	Order code	Туре	Order code	Туре	Order code	
			= 65 x 65 mm					
With one metric	A = 57	MB861612	4TBG861612C0100	MB861500	4TBG861500C0100	MB861501	4TBG861501C0100	
cutout	B = 81	MB861614	4TBG861614C0100	MB861502	4TBG861502C0100	MB861503	4TBG861503C0100	
Smooth	A = 57	MB861668	4TBG861668R0100					
	B = 81	MB861670	4TBG861670C0100					
		MB21 HxL	. = 94 x 65 mm					
With one metric	A = 57	MB861616	4TBG861616C0100	MB861504	4TBG861504C0100	MB861505	4TBG861505C0100	
cutout	B = 81	MB861618	4TBG861618C0100	MB861506	4TBG861506C0100	MB861507	4TBG861507C0100	
Smooth	A = 57	MB861672	4TBG861672C0100					
	B = 81	MB861674	4TBG861674C0100					
		MB 22 HxL	. = 94x94mm					
With one metric	A = 57	MB861620	4TBG861620R0100	MB861508	4TBG861508C0100	MB861509	4TBG861509C0100	
cutout	B = 81	MB861622	4TBG861622C0100	MB861510	4TBG861510C0100	MB861511	4TBG861511C0100	
Smooth	A = 57	MB861676	4TBG861676R0100					
	B = 81	MB861678	4TBG861678C0100					
		MB 33 HxL	. = 110 x 110mm	,				
With one metric	A = 66	MB861624	4TBG861624R0100	MB861512	4TBG861512C0100	MB861513	4TBG861513C0100	
cutout	B = 90	MB861626	4TBG861626R0100	MB861514	4TBG861514C0100	MB861515	4TBG861515C0100	
Smooth	A = 66	MB861680	4TBG861680C0100					
	B = 90	MB861682	4TBG861682C0100					
		MB 42 H x L	. = 130 x 94mm					
With one metric	A = 57	MB861628	4TBG861628R0100	MB861516	4TBG861516C0100	MB861517	4TBG861517C0100	
cutout	B = 81	MB861630	4TBG861630C0100	MB861518	4TBG861518R0100	MB861519	4TBG861519C0100	
Smooth	A = 57	MB861684	4TBG861684R0100					
Smooth	B = 81	MB861686	4TBG861686C0100					
	D - 01		. = 130x130mm					
			- 150x 150mm					
With one metric	A = 75	MB861632	4TBG861632R0100	MB861520	4TBG861520R0100	MB861521	4TBG861521C0100	
cutout	B = 99	MB861634	4TBG861634R0100	MB861522	4TBG861522R0100	MB861523	4TBG861523C0100	
Smooth	A = 75	MB861688	4TBG861688C0100	MB861576	4TBG861576C0100	MB861577	4TBG861577R0100	
	B = 99	MB861690	4TBG861690R0100	MB861578	4TBG861578C0100	MB861579	4TBG861579C0100	
		MB 52 HxL	. = 180 x 94 mm					
With one matric	A - 57	MB861626	4TBG861636R0100	MB861524	4TBG861524C0100	MB961525	ATBG861525C0100	
With one metric cutout	A = 57 B = 81	MB861636 MB861638	4TBG861638R0100	MB861524 MB861526	4TBG861524C0100 4TBG861526C0100	MB861525 MB861527	4TBG861525C0100 4TBG861527C0100	
	D - 01	10001030	+100001030K0100	110001520	410000102000100	110001521	410000102700100	
Smooth	A = 57	MB861692	4TBG861692C0100					
	B = 81	MB861694	4TBG861694C0100					

(1) Smooth = one metric cutout on the short side for a supply cable. Pack = 1

MultiBox - Small boxes for all types of application







(for terminals)

(for terminals and equipment)

Mounting plate (insulated)		DIN profile 15x5x1		DIN profile 35x7.5x1	
Туре	Order code	Туре	Order code	Туре	Order code
				-	
74x45mm					
MB861731	4TBG861731C0100			-	
				-	
74x74mm		L=49.5			
74x 74mm		short side			
MB861732	4TBG861732C0100	MB861741	4TBG861741C0100	-	
90x90mm		L=80			
MB861733	4TBG861733R0100	long/short side MB861742	4TBG861742R0100		
110 x 74 mm		L=92 long/short side		L=81 long/short side	
MB861734	4TBG861734R0100	MB861743	4TBG861743C0100	MB861746	4TBG861746R0100
110x110mm		L=111		L=106	
	47000170500100	long/short side	470000174400100	long/short side	470 000174700100
 MB861735	4TBG861735R0100	MB861744	4TBG861744R0100	MB861747	4TBG861747R0100
 160 x 74 mm		L=154 long side		L=144 long side	
MB861736	4TBG861736R0100	MB861745	4TBG861745C0100	MB861748	4TBG861748R0100

MultiBox - Small boxes for all types of application

—B	с_ _	1
┇ ┎ ┎ ┎		





Back boxDepthWith a metric cutoutA = 90 B = 11 C = 16SmoothB = 11 C = 16With a metric cutoutA = 90 B = 11 C = 16With a metric cutoutA = 90 B = 11 C = 16	Gray cover RAL 7035						
With a metric cutoutA = 90 B = 11 C = 16SmoothA = 90 			Gray cover RAL 7035		Transparent cover		
cutout $B = 11$ C = 16Smooth $A = 90$ B = 11 C = 16With a metric cutout $A = 90$ B = 11	Туре	Order code	Туре	Order code	Туре	Order code	
Cutout $B = 11$ C = 16Smooth $A = 90$ B = 11 C = 16With a metric cutout $A = 90$ B = 11	MB 53 Hx	L = 180 x 110 mm					
C = 16 Smooth A = 90 B = 11 C = 16 With a metric cutout A = 90 B = 11 B = 11	MB861640	4TBG861640R0100	MB861528	4TBG861528C0100	MB861529	4TBG861529C0100	
SmoothA = 90B = 11C = 16With a metricA = 90cutoutB = 11	MB861642	4TBG861642R0100	MB861530	4TBG861530R0100	MB861531	4TBG861531R0100	
SmoothB = 11 C = 16With a metricA = 90 CutoutB = 11	5 MB861644	4TBG861644R0100	MB861532	4TBG861532C0100	MB861533	4TBG861533C0100	
SmoothB = 11 C = 16With a metricA = 90 cutoutB = 11	MB861696	4TBG861696R0100					
C = 16 With a metric A = 90 cutout B = 11		4TBG861698C0100					
With a metricA = 90cutoutB = 11		4TBG861700C0100					
cutout B = 11		L = 182 x 180mm	1		1		
cutout B = 11	MB861646	4TBG861646R0100	MB861534	4TBG861534C0100	MB861535	4TBG861535C0100	
		4TBG861648R0100	MB861536	4TBG861536R0100	MB861537	4TBG861537R0100	
		4TBG861650R0100	MB861538	4TBG861538C0100	MB861539	4TBG861539C0100	
A = 90	MB861702	4TBG861702R0100					
Smooth B = 11	L MB861704	4TBG861704C0100					
C = 16	5 MB861706	4TBG861706C0100					
	MB 75 Hx	L = 254 x 180mm					
With a metric A = 90	MB861654	4TBG861654R0100	MB861542	4TBG861542C0100	MB861543	4TBG861543C0100	
cutout B = 11	MB861656	4TBG861656R0100	MB861544	4TBG861544R0100	MB861545	4TBG861545R0100	
C = 16	5 MB861658	4TBG861658C0100	MB861546	4TBG861546R0100	MB861547	4TBG861547R0100	
A = 90	MB861710	4TBG861710R0100					
Smooth B = 11	MB861712	4TBG861712R0100					
C = 16	5 MB861714	4TBG861714R0100					
	MB 87 Hx	L = 361 x 254mm					
With a metric B = 11	MB861662	4TBG861662R0100	MB861550	4TBG861550C0100	MB861551	4TBG861551R0100	
cutout C = 16	5 MB861664	4TBG861664R0100	MB861552	4TBG861552C0100	MB861553	4TBG861553C0100	
Smooth B = 11	L MB861718	4TBG861718C0100					
C = 16		4TBG861718C0100 4TBG861720R0100					

(1) Smooth = one metric cutout on the short side for a supply cable. Pack = 1 $\,$

Table of dimensions

MB (MultiBox)	Height	Width
11	65	65
21	94	65
22	94	94
33	110	110
42	130	94
44	130	130
52	180	94
53	180	110
65	182	180
75	254	180
87	361	254

MultiBox - Small boxes for all types of application





(for terminals and equipment)

Mounting plate (insulated)		DIN profile 35 x 7.5 x 1	
Туре	Order code	Туре	Order code
150x90mm			
MB861737	4TBG861737R0100		
150x150mm		L=144 long side	
MB861738	4TBG861738R0100	MB861748	4TBG861748R0100
MB001730	4100801738R0100	MD601746	418080174880100
220x150mm		L=216	
		long side	
MB861739	4TBG861739R0100	MB861749	4TBG861749R0100
331 x 220 mm		L=336	
551 X 220mm		long side	
MB861740	4TBG861740R0100	MB861750	4TBG861750C0100

MultiBox - Accessories

	Туре	Order code	Pack	Carry handle			
Coupling kit				(plastic, green in color)			
For assembling multiple bo	xes horizontally a	and/or vertically			Includes plas	stic screws	
0	① Small M20				MB861764	4TBG861764C0100	1
	MB861753	4TBG861753C0100	5		Includes self	-tapping screws	
Ch	① Small M25				MB861765	4TBG861765C0100	1
	MB861754	4TBG861754C0100	5				
	① Small M32						
	MB861755	4TBG861755C0100	5				
2	② Large from	n MB 53			•		
	MB861756	4TBG861756C0100	1	IP66 double membrane nip	-		
				IP66 double membrane cor nuts. Membrane includes 2		embly without locking	
88888					M16		
880-					MB861724	4TBG861724R0100	50
					M20		
					MB861725	4TBG861725R0100	50
Hinges				1992	M25		
Open all boxes using the hir	5				MB861726	4TBG861726R0100	50
0	Large from M		_		M32		
000	MB861758	4TBG861758R0100	1		MB861727	4TBG861727C0100	25
0001111				Vent (IPx4) Provides ventilation and pr preferably be installed in th			
0001111				Provides ventilation and pr			
				Provides ventilation and pr			25
	entire range			Provides ventilation and pr	ne upper and lowe	er sections of the box.	25
	-	s		Provides ventilation and pr	ne upper and lowe	er sections of the box.	25
Fixing lugs For external securing of the	entire range 1 set of 4 lug MB861759	s 4TBG861759C0100	1	Provides ventilation and pr	ne upper and lowe	er sections of the box.	25
	1 set of 4 lug		1	Provides ventilation and pr	ne upper and lowe	er sections of the box.	25
	1 set of 4 lug		1	Provides ventilation and pr	ne upper and lowe	er sections of the box.	25
	1 set of 4 lug		1	Provides ventilation and pr preferably be installed in th	MB861728	er sections of the box. 4TBG861728R0100	25
For external securing of the	1 set of 4 lug		1	Provides ventilation and pr preferably be installed in th Cover screws	ne upper and lowe	er sections of the box. 4TBG861728R0100	25
For external securing of the For external securing of the Spacers Plastic material (6 + 8 mm),	1 set of 4 lug MB861759 sets the distance	4TBG861759C0100		Provides ventilation and pr preferably be installed in th Cover screws	MB861728 Short for the	er sections of the box. 4TBG861728R0100	
	1 set of 4 lug MB861759 sets the distance base of the box 1 set of 8 par	4TBG861759C0100		Provides ventilation and pr preferably be installed in th Cover screws	MB861728 MB861728 Short for the Depth A	er sections of the box. 4TBG861728R0100 e cover. 4TBG861769R0100	
For external securing of the For external securing of the Spacers Plastic material (6 + 8 mm),	1 set of 4 lug MB861759 sets the distance base of the box 1 set of 8 par (includes sec	4TBG861759C0100 e between the boxes of ts. uring screws)	r	Provides ventilation and pr preferably be installed in th Cover screws	MB861728 Short for the Depth A MB861769 Long for the	er sections of the box. 4TBG861728R0100 e cover. 4TBG861769R0100	20
For external securing of the For external securing of the Spacers Plastic material (6 + 8 mm),	1 set of 4 lug MB861759 sets the distance base of the box 1 set of 8 par	4TBG861759C0100	r	Provides ventilation and pr preferably be installed in th Cover screws	Short for the Depth A MB861729 Long for the Depth B & C	er sections of the box. 4TBG861728R0100 e cover. 4TBG861769R0100 cover.	20

Notes

APO - Modular polyester boxes



APO

Applications

- Heavy industry
- Refineries
- Shipyards
- Steelworks
- Breweries
- Petro-chemical industry
- Public works
- Solar energy applications

Standard: EN/IEC 61439-2, EN/IEC 60529, EN/IEC 62208

Specifications

• The range comprises nine different sizes with 300 and 185 mm modules.

(Ų)

• Boxes with polyester cover: types 3, 3R, 4, 4X, 6, 6P, 12 and 13

Standards/Certification

- Enclosures with polycarbonate cover: types 3, 3R, 4, 4X, 12 and 13
- Boxes with hinged cover: types 3, 3R, 4, 4X, 6, 12 and 13 Available upon request.

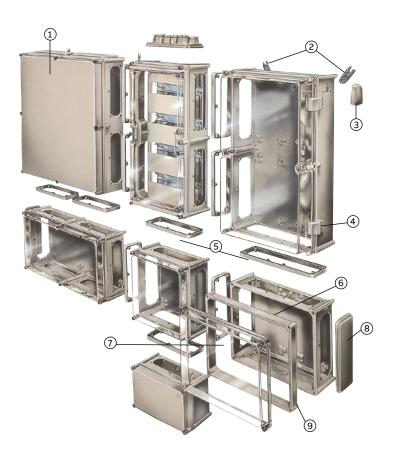


- Boxes with polyester cover: types
 3, 3R, 4, 4X, 6, 6P, 12 and 13
- Boxes with polycarbonate cover: types 3, 3R, 4, 4X, 12 and 13
- Boxes with hinged cover: types 3, 3R, 4, 4X, 6, 12 and 13
 Available upon request.
- Lloyd's Register of Shipping
- DNV GL Germanischer Lloyd

- The base is fabricated from polyester, hot press molded and reinforced with glass fiber, dyed in mass RAL 7035 light gray color. It is equipped with M4 inserts (Dodge-type) for attaching a mounting plate or a frame.
- The cover may be fabricated from transparent polycarbonate or hot press molded polyester, reinforced with glass fiber, dyed in mass RAL 7035 light gray color.
- Maximum protection for the user and equipment thanks to its total insulation II and IP67 protection rating in accordance with EN/IEC 60529.
- IK10 protection rating against external mechanical impacts in accordance with EN/IEC 62208.
- Each box, which is a multiple of a smaller one, also has a variety of the mounting points of the smaller box. These points have non-threaded holes for embedded M4 inserts.
- The base also includes four to six non-threaded holes for embedded M6 inserts.
- The box may be wall-mounted or on a pedestal.
- Material is simple to work with using conventional tools such as drills, mills, saws, etc.
- Polyester boxes can resist temperatures of up to 70°C under continuous operation and peak temperatures of up to 130°C. The transparent polycarbonate covers can resist operating temperatures of up to 120°C.
- Insulation voltage Ui = 1000 V and 1500 V dc
- APO enclosures are UL Listed, in accordance with the UL Standard 508. They are also CSA-certified.

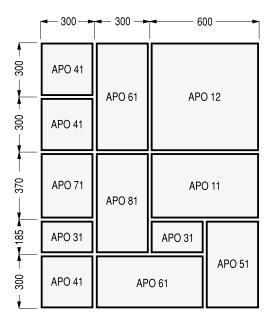
APO - Modular polyester boxes

Modular insulated box system



- 1. Polyester cover
- 2. Fixing lugs, stainless
- steel or polyamide 3. Fan
- 4. Hinge made from insulating material
- 5. Coupling frame
- 6. Depth extension frame
- 7. Transparent polycarbonate cover
- 8. Solid polyester closure plate
- 9. Polyurethane gasket

Optimal modular application



Technical data

Protection classification in accordance with IEC 60529				
Polyester	with 100% polyester cover	IP67		
cabinets	with transparent polycarbonate cover	IP66		
with hinged cover		IP67		
Cabinet with	IP43/54 ⁽²⁾			
Cabinet comb	IP67 ⁽¹⁾			
Cabinet with	raised frame	IP66		

(1) Depending on cover used

(2) IP54 if cable entry is mounted at the bottom of the cabinet.

APO - Modular polyester boxes

ure with H ter cover T over with ng screws ure with H rbonate cover: T o arent cover ecuring screws ure with H ng cover T	HxWxD Type Order code HxWxD Type Order code	APO 1 186×151×140 AP1P 4TBO856048C0100 185×151×140 AP1T 4TBO856057C0100	APO 31 302 x 186 x 175 AP31P 4TB0856049C0100 300 x 185 x 175 AP31T 4TB0856058C0100 300 x 185 x 175	APO 41 302 x 302 x 175 AP41P 4TB0856050C0100 300 x 300 x 175 AP41T 4TB0856059C0100 300 x 300 x 175	APO 71 300x300x175 AP71P 4TB0856051C0100 370x300x175 AP71T 4TB0856060C0100
ter cover T over with ng screws ure with H rbonate cover: T oure tover ecuring screws ure with H ng cover T	Type Order code H×W×D Type Order code	AP1P 4TBO856048C0100 185x151x140 AP1T	AP31P 4TB0856049C0100 300x185x175 AP31T 4TB0856058C0100	AP41P 4TB0856050C0100 300x300x175 AP41T 4TB0856059C0100	AP71P 4TB0856051C0100 370x300x175 AP71T 4TB0856060C0100
over with ng screws ure with troonate cover: arent cover ecuring screws ure with H ng cover T	Order code H×W×D Type Order code H×W×D	4TBO856048C0100 185x151x140 AP1T	4TBO856049C0100 300x185x175 AP31T 4TBO856058C0100	4TBO856050C0100 300x300x175 AP41T 4TBO856059C0100	4TBO856051C0100 370x300x175 AP71T 4TBO856060C0100
over with ng screws ure with thonate cover: arent cover ecuring screws ure with H ng cover T	H×W×D Type Order code H×W×D	185×151×140 AP1T	300x185x175 AP31T 4TBO856058C0100	300x300x175 AP41T 4TBO856059C0100	370x300x175 AP71T 4TBO856060C0100
rbonate cover: T 6 0 arent cover accuring screws ure with H ng cover T	Type Order code HxWxD	AP1T	AP31T 4TB0856058C0100	AP41T 4TB0856059C0100	AP71T 4TB0856060C0100
rbonate cover: T 6 0 arent cover accuring screws ure with H ng cover T	Type Order code HxWxD	AP1T	AP31T 4TB0856058C0100	AP41T 4TB0856059C0100	AP71T 4TB0856060C0100
arent cover ecuring screws ure with H ng cover T	Order code		4TB0856058C0100	4TB0856059C0100	4TB0856060C0100
arent cover ecuring screws ure with H ng cover T	HxWxD	418085605700100			
ng cover T			300x185x175	200 × 200 × 175	
ng cover T	Turne a		30071037113	200X 200X 112	370x300x175
	Туре	-	AP31THC	AP41THC	AP71THC
arent cover ip-in buttons	Order code		4TBO856066C0100	4TBO856067C0100	4TBO856068C0100
ure with H	HxWxD	185x151x140	300x185x175	300x300x175	370x300x175
		AP1PHC	AP31PHC	AP41PHC	AP71PHC
-	210		4TBO856072C0100	4TBO856073C0100	4TBO856074C0100
ure with H	 HxWxD		300x185x175	300x300x175	370x 300x 175
		-	AP31PHCL	AP41PHCL	AP71PHCL
			4TBO856080C0100	4TBO856081C0100	4TB0856082C0100
a over					
	over	over Order code are with hinged cover ted) Order code	over Order code 4TBO856071C0100 re with HxWxD e hinged cover Type - ted) Order code	Order code 4TBO856071C0100 4TBO856072C0100 over ATBO856072C0100 4TBO856072C0100 are with e hinged cover H×W×D 300×185×175 ted) Type - Order code 4TBO856080C0100	Order code 4TBO856071C0100 4TBO856072C0100 4TBO856073C0100 are with e hinged cover ted) HxWxD 300x185x175 300x300x175 Type - AP31PHCL AP41PHCL Order code 4TBO856080C0100 4TBO856081C0100

APO - Modular polyester boxes

	7	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	× ×
•	•			

APO 51	APO 81	APO 61	APO 11	APO 12
488x302x175	558 x 302 x 175	602x302x175	603x372x175	603x603x175
AP51P	AP81P	AP61P	AP11P	AP12P
4TBO856052C0100	4TBO856053C0100	4TBO856054C0100	4TBO856055C0100	4TBO856056C0100

485x300x210	555x300x210	600x300x210	600x370x210	600x600x210
AP51T	AP81T	AP61T	AP11T	AP12T
4TBO856061C0100	4TBO856062C0100	4TBO856063C0100	4TBO856064C0100	4TBO856065C0100

485x300x175		600x300x175		
AP51THC	-	AP61THC	-	-
4TBO856069C0100		4TBO856070C0100		

485 x 300 x 175	555x300x175	600x300x175	600x370x175	600x600x175
AP51PHC	AP81PHC	AP61PHC	AP11PHC	AP12PHC
4TBO856075C0100	4TBO856076C0100	4TBO856077C0100	4TBO856078C0100	4TBO856079C0100

485x300x175	555 x 300 x 175	600x300x175	600x370x175	
AP51PHCL	AP81PHCL	AP61PHCL	AP11PHCL	-
4TBO856083C0100	4TBO856084C0100	4TBO856085C0100	4TBO856086C0100	

22

General purpose enclosures

APO - Modular polyester boxes

					V .	
		Туре	APO 1	APO 31	APO 41	APO 71
	Base with solid walls	HxWxD	186 x 151 x 85	302 x 186 x 131	302 x 302 x 131	372 x 302 x 131
		Туре	AP1B	AP31B	AP41B	AP71B
			4TBO856000C0100	4TBO856001C0100	4TBO856002C0100	4TBO856003C0100
- All		Pack	4	4	1	4
·	Base with 1 open wall			302 x 186 x 131	302 x 302 x 131	372 x 302 x 131
j.	The dimensions with		-	AP31B1	AP41B1	AP71B1
	shading are those of the open walls	Order code		4TB0852057C0100	4TB0852079C0100	4TB0852135C0100
	the open wans	Pack		4	4	4
	Base with 2 open	HxWxD		302 x 186 x 131	302 x 302 x 131	372 x 302 x 131
	walls	Туре	-	AP31B2	AP41B2	AP71B2
	The dimensions with			4TBO856009C0100	4TB0856010C0100	4TBO856011C0100
	shading are those of	Pack		4	4	4
	the open walls					
	Base with 4 open	HxWxD		302 x 186 x 131	302 x 302 x 131	372 x 302 x 131
	walls	Туре	-	AP31B4	AP41B4	AP71B4
		Order code		4TBO856017C0100	4TBO856018C0100	4TBO856019C0100
10 00		Pack		4	4	4
1	Polyester cover	H×W×D	186 x 151 x 45	302 x 186 x 45	302 x 302 x 45	372 x 302 x 45
	Calial a constructional caliants	Туре	AP1PC	AP31PC	AP41PC	AP71PC
	Solid cover including securing screws		4TBO856025C0100	4TBO856026C0100	4TBO856027C0100	4TB0856028C0100
	securing screws	Pack	4	4	4	4
-	Debuende en etc. en errer		100 x 101 x 40	202 x 100 x 45	202 - 202 - 45	272 - 202 - 45
	Polycarbonate cover		186 x 151 x 45 AP1TC	302 x 186 x 45 AP31TC	302 x 302 x 45 AP41TC	372 x 302 x 45 AP71TC
	Transparent cover	Type Order code	4TBO851196C0100	4TB0851173C0100	4TB0851277C0100	4TB0851176C0100
	with securing screws	HxWxD	410005115000100	410003111300100	410003121700100	41808511/000100
and the second se	-	Туре	-	-	-	-
		Order code				
		Pack	4	4	4	4
	-					
	Pivoting cover	HxWxD		302 x 186 x 35	302 x 302 x 45	372 x 302 x 45
	Transparent cover	Туре	-	AP31STHC	AP41STHC	AP71STHC
	with clip-in buttons	Order code		4TBO856034C0100	4TBO856035C0100	4TBO856036C0100
and a	for the frame	Pack		4	4	4
-						
	Depth extension	HxWxD	186 x 151 x 35	302 x 186 x 35	302 x 302 x 35	372 x 302 x 35
	frame	Type	AP1DE	AP31DE	AP41DE	AP71DE
	Reinforced with PA6	Order code Pack	4TB0856040C0100	4TBO856041C0100	4TB0856042C0100	4TB0856043C0100
	polyamide glass fiber		4	4	4	4
	Mounting plate	HxWxD	140 x 105	228 x 139	254 x 228	298 x 254
	Pertinax 5mm	Туре	AP1MHP	AP31MHP	AP41MHP	AP71MHP
	Galvanized steel		4TB0851190C0100	4TBO851187C0100	4TBO851278C0100	4TB0851181C0100
	Sendzimir 2 mm	HxWxD	134 x 99	249 x 134	249 x 249	319 x 249
		Туре	AP1MS	AP31MS	AP41MS	AP71MS
	1.5 mm perforated		4TBO851191C0100	4TBO851188C0100	4TBO851279C0100	4TBO851185C0100
	plate (Slide nuts, see I.22)	HxWxD	134 x 99	249 x 134	249 x 249	319 x 249
	(ende naci, see nel)	Туре	-	AP31MSP	AP41MSP	AP71MSP
		Order code		4TB0852875C0100	4TBO852876C0100	4TBO852877C0100
	-	Pack	1	1	1	1
	Solid front plate	HxWxD	150 x 115	265 x 150	265 x 265	335 x 265
	1 Emm couldur	Туре	AP1CP	AP31CP	AP41CP	AP71CP
	1.5 mm covidur		4TBO851189C0100	4TB0851186C0100	4TB0851281C0100	4TB0851180C0100
		Pack	1	1	1	1

APO - Modular polyester boxes

400.51		400.91	400.01	400.11	400.12
APO 51		APO 81	APO 61	APO 11	APO 12
	02 x 131	558 x 302 x 131	603 x 302 x 131	603 x 372 x 131	603 x 603 x 131
AP51B		AP81B	AP61B	AP11B	AP12B
2	56004C0100	4TBO856005C0100 2	4TBO856006C0100 2	4TB0856007C0100 2	4TBO856008C0100 2
<u> </u>		L	L	L	L
488 x 3	02 x 131	558 x 302 x 131	603 x 302 x 131	603 x 372 x 131	603 x 603 x 131
-	02 × 151	AP81B1	AP61B1	AP11B1	AP12B1
		4TBO852436C0100	4TBO852117C0100	4TB0852446C0100	4TBO852451C0100
2		2	2	2	2
488 x 3	02 x 131	558 x <mark>302</mark> x 131	603 x <mark>302</mark> x 131	603 x 372 x 131	603 x 603 x 131
AP51B2	2	AP81B2	AP61B2	AP11B2	AP12B2
	56012C0100	4TBO856013C0100	4TBO856014C0100	4TBO856015C0100	4TBO856016C0100
2		2	2	2	2
400 0	02 - 1 21	FF0 x 202 x 121	C02 x 202 x 121	CO2 x 272 x 121	<u>(0) + (0) + 101</u>
	02 x 131	558 x 302 x 131 AP81B4	603 x 302 x 131	603 x 372 x 131	603 x 603 x 131 AP12B4
AP51B4		4TBO856021C0100	AP61B4	AP11B4	
2	56020C0100	2	4TBO856022C0100 2	4TBO856023C0100 2	4TBO856024C0100 2
L		L	L	L	L
488 x 3	02 x 45	558 x 302 x 45	603 x 302 x 45	603 x 372 x 45	603 x 603 x 45
AP51PC		AP81PC	AP61PC	AP11PC	AP12PC
	56029C0100	4TBO856030C0100	4TBO856031C0100	4TB0856032C0100	4TBO856033C0100
2		2	2	2	2
488 x 3	02 x 80	558 x 302 x 80	603 x 302 x 80	603 x 372 x 80	603 x 603 x 80
AP51TC	:	AP81CP	AP61TC	AP11TC	AP12TC
4TB085	52092C0100	4TBO851193C0100	4TBO851282C0100	4TBO851290C0100	4TB0852280C0100
			603 x 302 x 45		
-		-	-	-	-
2		2	2	2	2
2		2	L	2	2
488 x 3	02 x 45		603 x 302 x 45	603 x 372 x 115	
AP51ST	нс	-	AP61STHC	AP11STHC	-
4TBO85	56037C0100		4TBO856038C0100	4TBO856039C0100 (1)	
2			2	2	
		558 x 302 x 60	603 x 302 x 60	603 x 372 x 60	603 x 603 x 60
-		AP81DE	AP61DE	AP11DE	AP12DE
		4TBO856044C0100	4TBO856045C0100 2	4TBO856046C0100	4TB0856047C0100
		2	2	2	2
413 x 25	54	484 x 254	528 x 254	528 x 324	555 x 555
AP51M		AP81MHP	AP61MHP	AP11MHP	AP12MHP
	52091C0100	4TBO851170C0100	4TBO851286C0100	4TBO851289C0100	4TBO852174C0100
435 x 24	49	505 x 249	550 x 249	550 x 319	550 x 555
AP51MS	S	AP81MS	AP61MS	AP11MS	AP12MS
4TBO85	52095C0100	4TBO851171C0100	4TBO851287C0100	4TBO851292C0100	4TBO852178C0100
435 x 24	49	505 x 249	550 x 249	550 x 319	550 x 555
AP51M9	SP	-	-	-	-
	52878C0100				
1		1	1	1	1
450 0	<u> </u>				
450 x 20					
4TB084	- 52090C0100	-	-	-	-
1	203000100				
-					

(1) 4TBO856039C0100 2

Pivoting cover with deep frame



APO - Accessories

Product		Туре	Order code	Pack
Polystyrene closure pl	ates			
PG/Metric specifications	Width	'		
4xM20/16+1xM32/25	185	APEP185	4TBO856096C0100	1
2xM32/25 + 3xM25/ M20 + 4xM20/16	300	APEP35	4TBO856131C0100	1
9xM25/20	300	APEP31	4TBO856097C0100	1
2xM50/40+2xM25/	300	APEP32	4TBO856098C0100	1
13xM20/16	300	APEP33	4TBO856099C0100	1
3xM40/32 + 2xM20/16	300	APEP34	4TBO856100C0100	1
1xM40/32 + 10xM25/20	370	APEP371	4TBO856101C0100	1
13×M25/20	370	APEP372	4TBO856102C0100	1

Solid polyester clos	ure plates			
	Width			
	185	APEP185	4TBO856096C0100	1
	300	APEP35	4TBO856131C0100	1
	370	APEP31	4TBO856097C0100	1
ţ\$			s for maximum cut- chnical Guide	

Product		Туре	Order code	Pack
Coupling frames				
Made of glass fiber-re	einforced po	olyamide.		
- Supplied with a tem	nplate.			
- The slimmest section	on of the fra	ame must be	e mounted toward the	
front of the base.				
- The maximum obta	•	age betwee	n two bases is that	
indicated by the ter	•		alia alithin this ana as	
The required number		s may be app	Shed within this space	
	Width			
	185	APCF185	4TBO856106C0100	1
yan Ooo	300	APCF3	4TBO856107C0100	1
	370	APCF37	4TBO856108C0100	1
, second se				
	2			
	7		for maximum cut-	
		out, see lec	hnical Guide	

Cable	end box	es				
For walls	Туре	Cable max Ø (mm)	Number of clamps supplied	Made of polyester		
300	APO31	1 x 75	1	AP31CEB	4TBO856115C0100	1
300	APO31	2 x 75	2	AP31CEB2	4TBO856116C0100	1
300	APO41	1 x 75	1	AP41CEB	4TBO856117C0100	1
300	APO61	1 x 75	1	AP61CEB	4TBO781936C0100	1
300	APO71	1 x 71	1	AP71CEB	4TBO781937C0100	1
370	APO71	3 x 75	1	AP71CEB2	4TBO856118C0100	1



Dimensions, see Technical Guide

Cable grip clamps(1)

100 F 100 F 100	
	For attaching directly inside the cable end box. Cable max. Ø: 75mm Used on APO 31 and APO 71 For 185, 300 and 370mm enclosures
	AP31CC75 4TB0851105C0100 1
	Universal cable grip clamp Cable max. Ø: 75mm Used on APO 41 For 300, 370 and 600mm enclosures
	AP41CC75 4TB0851110C0100 1
a the	Additional bracket for attaching to the clamp support. Cable max. Ø: 75mm
5	APCC75 4TBO851111C0100 1
	(1) See Technical Guide

APO - Accessories

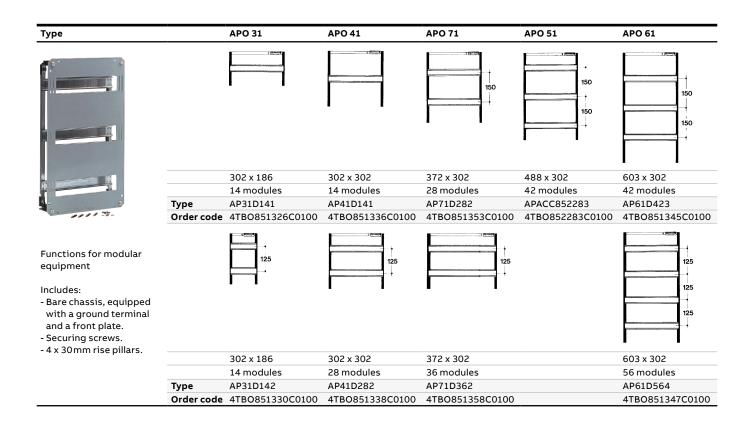
Product	Туре	Order code	Pack	Product	Туре	Order code	Pack
Rubber cable entry				IP44 Vent			
- For direct mounting - Supplied with a template	APRCS	4TB0851106C010	00 1	Install 2 vents per enc condensation. Supplied with a templ	ate and fixings. Reco	ommended installati	on: one
				vent at the highest and		ach side of the enclo lyamide pieces.	sure.
					PS833677	4TBP833677C0:	100 1
	114						
	For creating	cable and		Pedestal mounting			
	Cable max. 6			- The C profiles are m	ounted directly to th	ne rear of the base us	sing the
				bosses provided.	distributed along t	ha langth of the C pr	ofilo
Cable routing insert				 The brackets may be according to the wide 		ne length of the C pr	onne
Makes connecting large-sect original level of protection.	tion cables sir	mple while maintainin	g the			profiles and screws. ure 300 and 370mm	
	For 300 mr	n side.			APPM	4TBO890510C2	100 1
T Ir	APBR3	4TBO851103C010	00 1	r State of the second s			
• • •	For 370mr APBR37	n side. 4TBO851112C010	00 1				
			00 1				
Locks ⁽¹⁾			00 1	Fixing lugs			
Locks ⁽ⁱ⁾	APBR37	4TBO851112C010	00 1	Fixing lugs Set of 4 supports and	screws, in glass fibe	r-reinforced polyam	ide.
	APBR37	4TBO851112C010 ting accessories. .h 2 keys V2432E			_		
	APBR37	4TBO851112C010			- For extern - Direct mo holes of th - If using do attach the	nal mounting points bunting through the he enclosure. epth extension fram e supports.	4 corner es, first
	APBR37 APBR37 Ate and mount Handle wit APL2432E	4TBO851112C010 ting accessories. .h 2 keys V2432E		Set of 4 supports and	- For extern - Direct mo holes of ti - If using du attach the - Max equip	nal mounting points bunting through the he enclosure. epth extension fram e supports. pment weight: 100 kg	4 corner es, first 9.
Supplied with drilling templa	APBR37 APBR37 Ate and mount Handle wit APL2432E	4TBO851112C010 ting accessories. th 2 keys V2432E 4TBO852020C01			- For extern - Direct mo holes of th - If using do attach the	nal mounting points bunting through the he enclosure. epth extension fram e supports.	4 corner es, first 9.
Supplied with drilling templa	APBR37 Ate and mount Handle wit APL2432E (1) Not for us	4TBO851112C010 ting accessories. th 2 keys V2432E 4TBO852020C01 se with pivoting cover		Set of 4 supports and	- For extern - Direct mo holes of ti - If using du attach the - Max equip APMBPA	hal mounting points punting through the he enclosure. epth extension fram e supports. poment weight: 100 kg 4TBO851266C0	4 corner es, first 9.
Supplied with drilling templa	APBR37 APBR37 Ate and mount Handle wit APL2432E (1) Not for us ate and mount	4TBO851112C010 ting accessories. th 2 keys V2432E 4TBO852020C01 se with pivoting cover		Set of 4 supports and	- For extern - Direct mo holes of ti - If using du attach the - Max equip APMBPA	hal mounting points punting through the he enclosure. epth extension fram e supports. poment weight: 100 kg 4TBO851266C0	4 corner es, first 9.
Supplied with drilling templa	APBR37 APBR37 Ate and mount Handle wit APL2432E (1) Not for us ate and mount With 8mm	4TBO851112C010 ting accessories. th 2 keys V2432E 4TBO852020C01 se with pivoting cover ting accessories. square key	00 1	Set of 4 supports and	- For extern - Direct mo holes of tl - If using dd attach the - Max equip APMBPA - Oorts and screws (30) - For very s	hal mounting points ounting through the he enclosure. epth extension fram e supports. oment weight: 100ks 4TBO851266C0 44-type) evere operating con	4 corner es, first g. 100 1 ditions.
Supplied with drilling templa Control of the second secon	APBR37 APBR37 Ate and mount Handle wit APL2432E (1) Not for us ate and mount With 8 mm APLSQR	4TBO851112C010 ting accessories. th 2 keys V2432E 4TBO852020C01 se with pivoting cover	00 1	Set of 4 supports and	- For extern - Direct mo holes of tl - If using dd attach the - Max equip APMBPA - For very s - The 4 brace	hal mounting points ounting through the he enclosure. epth extension fram e supports. oment weight: 100 kg 4TBO851266C0 44-type) evere operating con ckets are mounted d	4 corner es, first g. 100 1 ditions. irectly
Supplied with drilling templa Control of the second secon	APBR37 APBR37 Atteand mount Handle wit APL2432E (1) Not for us atteand mount With 8 mm APLSQR	4TBO851112C010 ting accessories. th 2 keys V2432E 4TBO852020C01 se with pivoting cover ting accessories. square key 4TBO852021C010	00 1	Set of 4 supports and	 For extern Direct monologies of the second sec	hal mounting points punting through the he enclosure. epth extension fram e supports. poment weight: 100 kg 4TBO851266C0 44-type) evere operating con ckets are mounted d rear of the base in th nforced for this purp	4 corner es, first g. 100 1 ditions. irectly e section pose.
Supplied with drilling templation of the second sec	APBR37 APBR37 APBR37 APL2432E (1) Not for us ate and mount APL2432E (1) Not for us APL2432E With 8mm APLSQR With 8mm APLTRI8	4TBO851112C010 ting accessories. th 2 keys V2432E 4TBO852020C010 se with pivoting cover ting accessories. square key 4TBO852021C010 triangular key	00 1	Set of 4 supports and	 For extern Direct monologies of the second sec	hal mounting points punting through the he enclosure. epth extension fram e supports. poment weight: 100 kg 4TBO851266C0 44-type) evere operating con ckets are mounted d rear of the base in th nforced for this purp by means of M4 through the set of the	4 corner es, first g. 100 1 ditions. irectly e section pose.
Supplied with drilling templation of the second sec	APBR37 APBR37 Atteand mount Handle wit APL2432E (1) Not for us (1) Not for us APLSQR With 8mm APLSQR With 8mm APLTRI8	4TBO851112C010 ting accessories. th 2 keys V2432E 4TBO852020C01 se with pivoting cover ting accessories. square key 4TBO852021C010 triangular key 4TBO852022C010	00 1	Set of 4 supports and	 For extern Direct monologies of the second sec	hal mounting points punting through the he enclosure. epth extension fram e supports. poment weight: 100 kg 4TBO851266C0 44-type) evere operating con ckets are mounted d rear of the base in th nforced for this purp by means of M4 through the set of the	4 corner es, first g. 100 1 ditions. irectly e section pose. eaded
Supplied with drilling templation of the second sec	APBR37 APBR37 APBR37 APL7432E (1) Not for us (1) Not for us APL2432E (1) Not for us APL2432E With 8mm APLSQR With 8mm APLTRI8 With 11mr APLTRI11	4TBO851112C010 ting accessories. th 2 keys V2432E 4TBO852020C01 se with pivoting cover ting accessories. square key 4TBO852021C010 triangular key aTBO852022C010 n triangular key	00 1	Set of 4 supports and	 For extern Direct monologies of the second sec	hal mounting points punting through the he enclosure. epth extension fram e supports. poment weight: 100 kg 4TBO851266C0 44-type) evere operating con ckets are mounted d rear of the base in th nforced for this purp by means of M4 thro rovided).	4 corner es, first g. 100 1 ditions. irectly e section pose. eaded g.

22

APO - Accessories

	Туре	Order code	Pack	Product	Туре	Order code	Pack
Hinges				Strip hinges		,	
Туре Туре	Hinges				Set of 2 piec	es	
	A APHA	4TBO856109C0100	1		APHS	4TBO851256C0100	1
	в арнв	4TBO856110C0100	1				
ि जि	C APHC	4TBO856111C0100	1	22	Warning: the b	ase must be secured	
	D APHD	4TBO856112C0100				ing strip hinges.	
	E APHE	4TBO856113C0100					
	F APHF	4TBO856114C0100					
			-	Blanking screws with t	riangular head (TTR)	
Options 🕴 🖞				For fixed cover		,	
table Back box					Set of 2 piec	·es	
APO 31-41-71-51	-	to be installed, the co			APHSTTR	4TBO851262C0100	1
81-61-11-12		or the depth extens e drilled. Drilling	ion		7.1 HOT HK	110003120200100	-
Polyester A A		e provided; the type t	to be				
cover	used will obv	iously depend on the					
Polyester cover + depth B C	combination			For pivoting cover			
extension		ere is a range of 6 ki hinges, fixing hardw		For proting cover	Cat of During		
frame	drilling temp		,		Set of 2 piec		-
Polycarbon- D D	instructions				APHSTTRD	4TBO852016C0100	T
ate cover	reinforcemer	t plates.					
Polycarbon- ate cover + E F							
depth exten-							
sion frame				Wrench			
				For triangular head scr	ew (TTR)		
Stainless hinges				· · · · · · · · · · · · · · · · · · ·	APTTRK	4TBO851016C0100	1
-	Set of 2 steel h	ingoc					-
	(complete with				•		
	APHRVS	4TBO851268C0100	1				
			_				
	π	r					
	+			Sealing plate			
<u>−··</u> ∓·−·· ∏ ·−· ↓	₩				Set of 2 piec	es	
	e ⁱ				APSP	4TBO851260C0100	1
┤ <u></u> ╡	o ^t - 4						
₽.	L						
	For installation, t be milled along th			Padlock installation ki	t		
<u>й</u>	a depth of 6mm (APPL	4TBO852004C0100) 1
				0			
-							
Cover screws					Maximum sha	ckle diameter: 8mm	
	Cover screws						
	APCS	4TBO851255C0100	50				
	APCS	4TBO851255C0100	50	Inserts			
	APCS	4TBO851255C0100	50	Inserts	M4 Dodge-t		
	APCS	4TB0851255C0100	50	Inserts	APTIM4	4TBO851026C0100	100
	APCS	4TBO851255C0100	50	Inserts	APTIM4 M6 Dodge-t	4TBO851026C0100 ype x 12.5 mm	
Clip-in button	APCS	4TBO851255C0100	50	Inserts	APTIM4	4TBO851026C0100	
Clip-in button		4TBO851255C0100	50	Inserts	APTIM4 M6 Dodge-t	4TBO851026C0100 ype x 12.5 mm	
Clip-in button For cover or strip hinge screws			50		APTIM4 M6 Dodge-t APTIM6	4TBO851026C0100 ype x 12.5 mm	100
	Set of 50 piece	S		Inserts	APTIM4 M6 Dodge-t APTIM6 M4 punch	4TBO851026C0100 ype x 12.5 mm 4TBO851371C0100	100
	Set of 50 piece APCS5				APTIM4 M6 Dodge-t APTIM6 M4 punch APTIM4T	4TBO851026C0100 ype x 12.5 mm 4TBO851371C0100	100
-	Set of 50 piece APCS5 Set of 2 pieces	s 4TBO851259C0100	1		APTIM4 M6 Dodge-ty APTIM6 M4 punch APTIM4T M6 punch	4TBO851026C0100 ype x 12.5mm 4TBO851371C0100 4TBO851027C0100	100
	Set of 50 piece APCS5 Set of 2 pieces	S	1		APTIM4 M6 Dodge-ty APTIM6 M4 punch APTIM4T M6 punch	4TBO851026C0100 ype x 12.5mm 4TBO851371C0100 4TBO851027C0100	10

APO - Functions for modular equipment



Accessories Module cover



Length: 72 mm Cut-out width: 45 mm Divisible by 9 mm sections ZA3P5 4TBR610142C0200 5 FORSTBP500 4TBR610484C0200 500

4TBC851321C0100	1m
	4TBC851321C0100

Connection busbars			
6 x 10 mm² + 2 x 16 mm², Cl ⁻	ip onto 12x2mm	rail	
	Ground bus	bar - green	
000000000 000000000	FORSTTPE	4TBR610186C0200	4
	Neutral bush	oar - blue	
	FORSTTN	4TBR610187C0200	1

APO - Stand-alone equipped boxes

Туре		APO 31	APO 41	APO 71	APO 61	APO 11
Boxes for modular equipment						
Includes:		186x302x175		372 x 302 x 175	603x302x175	
- base with two open sides		14 modules		28 modules	42 modules	
- with combi cable glands	Туре	AP31DIN1		AP71DIN2	AP61DIN3	
top: 13×M20/16 bottom: 2×M32/25+	Order code	4TBO856119C0100		4TBO856120C0100	4TBO856121C0100	
3xM25/20 + 4xM20/16 - bare chassis, equipped with a ground terminal and a front plate - transparent pivoting cover						

APO 61 - DIP44-IK10 distribution enclosures



- Made from polyester, self-extinguishing reinforced with glass fiber.
- Meet AREI requirements.
- Equipped with a circuit breaker for circuit protection.
- Also equipped with a 300 mA differential switch for general protection.
- Distribution cabinets are equipped with wall mounting lugs.
- Wired and equipped with a sufficiently sized entry.
- May be coupled to a meter enclosure.
- 3 x 230 V/3 x 400 V+N network inverter.
- Dimensions: 600x300x175mm

APO 61

Distribution enclosures with industrial and domestic power outlets

	Equipment	Single-line diagram	Туре	Order code
32 A type	1 x 32 A 5P 6h 400 V EEC power outlet 1 x 16 A 5P 6h 400 V EEC power outlet 4 x power outlets with ground braid and child safety function. Inverter 3P+N 400V / 3x230 V Protection: 1 Diff-o-Jump type A 4P 40 A 300 mA 1 6 kA 3P+N 25 A Car. C. circuit breaker 1 x 6 kA 3P+N 16 A car. C. circuit breaker 4 x 6kA 2P 16 A car. C circuit breaker	30 m 32 m 3	AP61BWK32AH	4TB0890501N2100
63 A type	1 x 63 A 5P 6h 400 V EEC power outlet 1 x 32 A 5P 6h 400 V EEC power outlet 1 x 16 A 5P 6h 400 V EEC power outlet 4 x power outlets with ground braid and child safety function. Inverter 3P+N 400V / 3x230 V Protection: 1 Diff-o-Jump type A 4P 63A 300 mA 1 6 kA 3P+N 50A Car. C. circuit breaker 1 x 6 kA 3P+N 32A car. C. circuit breaker 1 x 6 kA 3P+N 16 A car. C. circuit breaker 4 x 6kA 2P 16 A car. C circuit breaker		AP61BWK63AH	4TB0890502N2100

Distribution enclosures with industrial power outlets

	Equipment	Single-line diagram	Туре	Order code
32 A type	1 x 32 A 5P 6h 400 V EEC power outlet 1 x 16 A 5P 6h 400 V EEC power outlet 4 x 16 A 3P 6h 400 V EEC power outlets Inverter 3P+N 400V / 3x230 V Protection: 1 Diff-o-Jump type A 4P 40 A 300 mA 1 6 kA 3P+N 25 A Car. C. circuit breaker 1 x 6 kA 3P+N 16 A car. C. circuit breaker 4 x 6kA 2P 16 A car. C circuit breaker		AP61BWK32AIND	4TB0890505N2100
63 A type	1 x 63 A 5P 6h 400 V EEC power outlet 1 x 32 A 5P 6h 400 V EEC power outlet 1 x 16 A 5P 6h 400 V EEC power outlet 4 x 16 A 3P 6h 230 V EEC power outlets Inverter 3P+N 400V / 3x230 V Protection: 1 Diff-o-Jump type A 4P 63A 300 mA 1 6 kA 3P+N 50A Car. C. circuit breaker 1 x 6 kA 3P+N 32A car. C. circuit breaker 1 x 6 kA 3P+N 16 A car. C. circuit breaker 4 x 6kA 2P 16 A car. C circuit breaker		AP61BWK63AIND	4TB0890506N2100

VMS - Modular system



Applications

- Manufacturing
- Public works
- Controls for motors
- Electronic instrumentation
- Low-voltage distribution boards

Standard: EN / IEC 61439-2, EN / IEC 60529, EN / IEC 62208

Specifications

- The range comprises five base dimensions, multiples of the 100 mm module.
- The ingenious and unique coupling system makes assembly simple and guick, for any combination of enclosures without the need for any tooling.
- The open base affords excellent options for cabling and installation for the connection, even when already coupled.
- The open sides can easily be fitted with smooth walls or walls with cutouts without impacting the protection ratings.
- Each large base is a multiple of smaller bases. The equipment securing points are inset by 25 mm increments, at the top and bottom of the base.
- The base and the closure plates are made from glass fiber-reinforced polycarbonate, halogen-free, self-extinguishing, light gray dyed in the mass (RAL 7035) color. The cover is fabricated from transparent or light gray (RAL 7035) polycarbonate.
- A comprehensive range of closure and mounting plates meeting a wide range of requirements for all installations.
- VMS enclosures are halogen-free.
- Enclosures offer maximized protection to users and equipment thanks to their double insulation
 and IP65 protection rating in accordance with the EN/ IEC 60529 standard.



Standards/Certification



Enclosures:

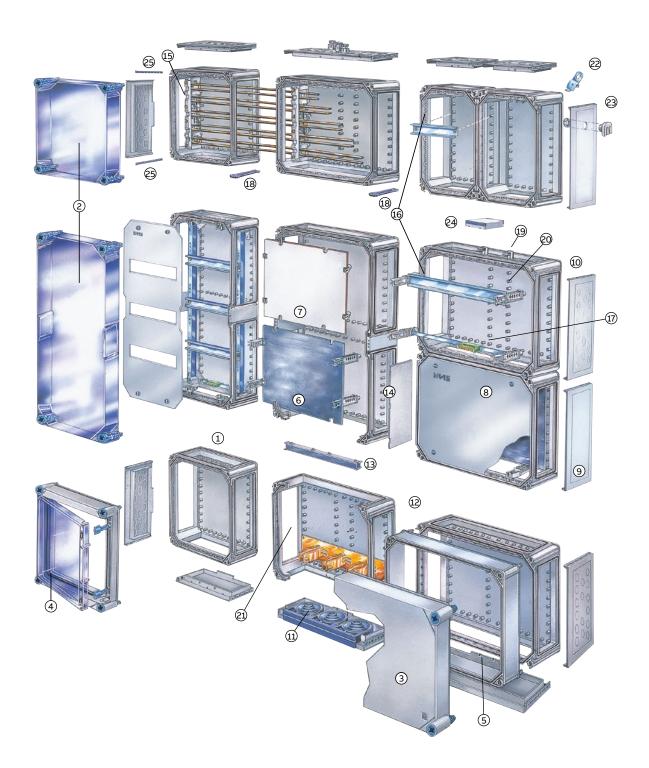
- types 2, 3, 3R, 3S, 5, 12 and 12K
- Modular system: types 2, 3, 3R, 3S, 5, 12 and 12K Available upon request.



KEMA

- Modular system with
- coupling kit 853063: types 2 and 3R • Enclosures with internally
- hinged covers: types 2, 5, 12 and 12K
- Enclosures with externally hinged covers: type 2 Available upon request.

VMS - Modular system



- 1.
- Back box Transparent cover Opaque cover Pivoting cover 2.
- 3.
- 4.
- 5. Depth extension frame
- Mounting plate: metal
 Mounting plate: pertinax
- Solid cover panel
 Closure plate
 Closure plate with punch-out
 Closure plate with cable entry
- 12. Cable grip support
- 13. Cross member
- 14. Partition plate
- 15. Busbar support
 16. DIN-profile
 17. Mounting rail 12×2mm
 18. Coupling dowels
 19. Coupling dowels
- 19. Coupling clamp
- 20. Universal support
 21. Stress-relieving cable clamp
- 22. Fixing bracket
 23. Air vent
 24. Coupling set 2×220 mm
 25. Locking key

VMS - Features and benefits



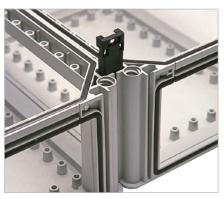
Modular dimensions in increments of 100mm in height and width, available

in five sizes: 320×220 mm 440×320 mm 640×440 mm

320×320 mm 640×320 mm



Assorted covers: transparent, opaque, or hinged; common design and depth.



Quick coupling thanks to the vertical dowels inserted into the four corner slots of the boxes.



Combi or blind plates are snapped on from the outside and fixed by means of vertically sunk keys at the front of the base.



After installation, the end-plates fit perfectly into the side panels of the base.



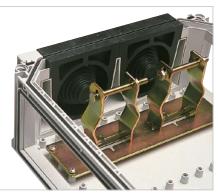
Mounting plates (2 mm in metal or 5mm in insulating material (pertinax), with mounting accessories.



Universal support for screwless and depth adjustable installation of component rails. This universal support is simply clicked over the base.



Removable bridges facilitate the introduction of large-section cables. After connecting the cables, insert the bridges (320 and 440 mm sides).

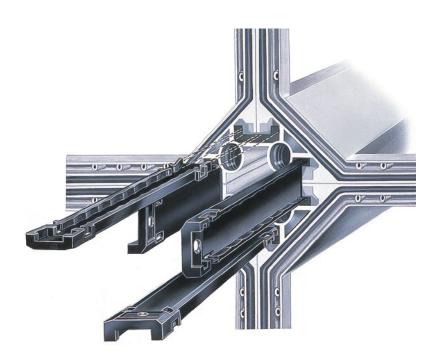


Universal cable entries and stressrelieving cable clamps to Ø 75 mm are attached to all base on side 320 mm (for 2 cables) and side 440 mm (for 3 cables).

VMS - features and benefits

Vertical and horizontal stacking of enclosures

Enclosures are assembled using dowel pins mounted on the front end. The dowel pins are universal for the entire range of VMS enclosures.



Installation of closure plates

After insertion from outside, the closure plate is locked in position by two dowel pins and pressed against the enclosure body join.



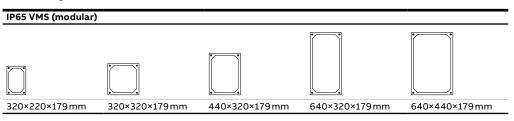
VMS - Technical data

Degree of protection according to IEC 60529	
individual and coupled	IP65
with coupling set 2 x 220	IP44
with extension frame	IP65
with cable entries	IP43
with bridges	IP55
Protection degree against external mechanical impacts according to EN 62262 and IEC 62262	
base + end plates + covers	IK08
hinged cover	IK07
Materials	
base + end-plates	Reinforced fiber-glass polycarbonate
covers	Polycarbonate
cover screws	Polyamide
gasket	PUR, neoprene
Temperature resistance	
materials	See page 158-159
continuous use	-20 °C up to +80 °C
Colours	
base + end-plates	RAL 7035
covers	RAL 7035 / transparent
Protection	Total isolation 🛛
Rated voltage	690 V AC / 800 V DC
Rated insulation voltage	690 V AC
Rated current	max. 1250 A
Rated short time withstand current	max. 30 kA (0.3 s.)
Rated peak short-circuit current	max. 65 kA peak
Standards	EN 61439-2, DIN VDE 0660, EN / IEC 61439-2

Optimal modular application

	4	40 — ►	◄— 320 —►	◄— 320 —►	44	10 — 🗲	
320	VM	S 43	VMS 33	VMS 63	VMS	64	640
▲ 320 ●	VMS 32	VMS 32	VMS 33				9
320	VMS	S 43	VMS	63	VMS 32	VMS 32	320
	4	40 —	- 64	40 — 🕞	- 220	- 220	

VMS - Range overview



22

VMS - Modular system components

		Туре	VMS 32	VMS 33	VMS 43	VMS 63	VMS 64
******	Back box	H×W×D	320×220×130	320×320×130	440×320×130	640×320×130	640×440×130
	With four	Туре	V32BWNJ6	V33BWNJ6	V43BWNJ6	V63BWNJ6	V64BWNJ6
	open sides	Emb.	4TBV853000C0100 4	2	2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Cover	H×W×D	320×220×50	320×320×50	440×320×50	640×320×50	640×440×50
9	transparent	Туре	V32CTNJ6	V33CTNJ6	V43CTNJ6	V63CTNJ6	V64CTNJ6
122-122		Order code	4TBV853005C0100	4TBV853006C0100	4TBV853007C0100	4TBV853008C0100	4TBV853009C0100
	With slotted screws	Emb.	4	2	2	1	1
	Cover	H×W×D	320×220×50	320×320×50	440×320×50	640×320×50	640×440×50
	solid	Туре	V32CBNJ6	V33CBNJ6	V43CBNJ6	V63CBNJ6	V64CBNJ6
		Order code	4TBV853010C0100	4TBV853011C0100	4TBV853012C0100	4TBV853013C0100	4TBV853014C0100
	With slotted	Emb.	4	2	2	1	1
	screws						
	Cover	H×W×D	-	320×320×50	440×320×50	-	-
	Hinged	Туре	-	V33CPNJ6	V43CPNJ6	-	-
+	With double	Order code		4TBV853015C0100 2	4TBV853016C0100 2		
	closure system Opening at 215°	Emb.	-	2	2	-	
	Depth extension	H×W×D	320×220×75	320×320×75	440×320×75	640×320×75	640×440×75
	frame	Туре	V32WDNJ6	V33WDNJ6	V43WDNJ6	V63WDNJ6	V64WDNJ6
		Order code	4TBV853030C0100			4TBV853033C0100	4TBV853034C0100
	With fixing screws	Emb.	4	2	2	1	1
	Metal	H×W×D	260×160	260×260	380×260	580×260	580×380
	mounting	Туре	V32MWNJ6	V33MWNJ6	V43MWNJ6	V63MWNJ6	V64MWNJ6
	plate, 2mm					4TBV853071C0100	4TBV853072C0100
	With mounting set	Order code	112103300000100	112103300300100	12103301020100	100000100100	
.****		H×W×D	260×160	260×260	380×260	580×260	580×380
	Pertinax, 5mm With mounting	Туре	V32IWNJ6	V33IWNJ6	V43IWNJ6	V63IWNJ6	V64IWNJ6
	set	Order code	4TBV853113C0100	4TBV853114C0100	4TBV853115C0100	4TBV853116C0100	4TBV853117C0100
		Emb.	1-10	1-10	1-10	1-10	1-10
	Solid cover panel	H×W×D	301×201	301×301	421×301	621×301	621×421
	Grey (RAL7035) Blue	Type Order code	V32PWNJ9 1SPV855009C0100	V33PWNJ0 1SPV855010C0100	V43PWNJ0 1SPV855011C0100	V63PWNJ0 1SPV855012C0100	V64PWNJ9 1SPV855013C0100
	(replacement) Insulated	Type	V32PWNJ7	V33PWNJ7	V43PWNJ7	V63PWNJ7	V64PWNJ7
	material,	Order code	4TBV853103C0100		4TBV853105C0100	4TBV853106C0100	4TBV853107C0100
	2mm With mounting set	Emb.	1-10	1-10	1-10	1-10	1-10

VMS - Accessories

Closure plates



Metric sizes	Туре	Order code	Verp.	Zijde
3xM32 / M25 + 3xM20	VX2EWNJ7	4TBV855029C0100	1/10	220
1 x M50 / M40 + 4 x M25 / M20	VX2EWNJ8	4TBV855030C0100	1/10	220
3xM50 / M40 + 4xM16	VX3EWNJ9	4TBV855032C0100	1/10	320
17 x M20	VX3EWNJ0	4TBV855033C0100	1/10	320
1 x M50 / M40 + 2 x M32 / M25 + 4 x M25 / M20	VX3EWNJA	4TBV855034C0100	1/10	320
12xM25/M20	VX3EWNJB	4TBV855035C0100	1/10	320
4xM40 / M32 + 3xM20	VX3EWNJC	4TBV855036C0100	1/10	320
1 x M40 / M32 + 16 x M25 / M20	VX4EWNJ8	4TBV855037C0100	1/10	440
1xM50/M40+2xM40/M32+8xM25/M20	VX4EWNJ9	4TBV855038C0100	1/10	440

Product	Туре	Order code	Pack
Closure plates			
	Side (mm) 22	20	
	VX2EWNJ6	4TBV853017C0100	1/10
	Side (mm) 32	20	
	VX3EWNJ6	4TBV853020C0100	1/10
	Side (mm) 44	0	
	VX3EWNJ7	4TBV853027C0100	1/10

Plates with cable entries			
GA	Ø cable max.: 2 x 75 mm		
	Side (mm) 320		
$(\circ) (\circ) $	VX3EWNJ6 4TBV853082C0100 1/5		
	Ø cable max.: 3 x 75 mm		
11	Side (mm) 440		
	VX4EWNJ6 4TBV853083C0100 1/5		

Cable grip support			
With a cable clamp Ø max.: 75	mm		
	Side (mm) 320	0	
	VX3LWNJ6	4TBV853036C0100	1/5
	Side (mm) 44	0	
	VX4LWNJ6	4TBV853037C0100	1/5

Stress-relieving cable	e clamp	
For fixing on the cable	e clamp support	
	Ø cable max.: 75mm	
	VXXLWNJ6 4TBV8530350	20100 1

Bridges			
Facilitate the connectio	n of large-section ca	bles	
UN TOWN TO NOT	Side (mm) 32	0	
	VX3AWNJ6	4TBV853073C0100	1
	Side (mm) 44	0	
	VX4AWNJ6	4TBV853074C0100	1

Coupling dowels

22

For base coupling			
VXXAWNJ8	4TBV853059C0100	20	

Product	Туре	Order code	Pack
Fixation pin			
	For end-plate	es	
	(as a spare p	art)	
• •	VXXEWNJ6	4TBV853055C0100	10
Coupling set 2 x 220			
	To couple tw	o sides of	
		ne side of 440mm	
	With mounti	ng accessories	
~	VXXAWNJA	4TBV853063C0100	1
Coupling clamp			
46	For coupling	in special	
U_W	cases		
	VXXAWNJ9	4TBV853062C0100	10
Universal support	a)		
	To fit:		_
, eller	- mounting p - copper rails	lates and cover plates	5
	- copper rails		
	Barre plate 1		
	VX3UWNJ6	4TBV853060C0100	10
Marking strip			
~	Self-adhesive	5	

Self-adhesive 4TBC851321C0100 1m

VMS - Accessories

	Туре	Order code	Pack
Symmetrical DIN-profiles			
Always supplied with two uni	versal supports		
	Side (mm) 220)	
AN I WAR	VX2AWNJ6	4TBV853094C0100	1
- Salar	Side (mm) 320)	
	VX3AWNJ6	4TBV853095C0100	1
	Side (mm) 440)	
and the second second	VX4AWNJ6	4TBV853096C0100	1
	Side (mm) 640)	
	VX6AWNJ6	4TBV853269C0100	1
lounting rails 12 x 2mm			
o fit connection terminal blo	ocks. Always deli	vered with 2 univers	al
upports.			
- State	Side (mm) 320		
ANT -	VX3AWNJ7	4TBV853098C0100	1
	Side (mm) 440		
E.	VX4AWNJ7	4TBV853099C0100	1
N.			
artition plates			
or complete compartmenta	lization of coupl	ed bases.	
	Side (mm) 220)	
	VX2TWNJ6	4TBV853065C0100	1
	Side (mm) 320)	
	VX3TWNJ6	4TBV853066C0100	1
	Side (mm) 440)	
	VX4TWNJ6	4TBV853067C0100	1
ixing lugs			
	5.		
- In stainless steel.	5.		
· In stainless steel. · For external fixing points.		of the base.	
In stainless steel. For external fixing points. Direct fitting through the fo To be installed prior to the e	our corner shafts extension frame	or hinge installation.	
- In stainless steel. - For external fixing points. - Direct fitting through the fo - To be installed prior to the e	our corner shafts extension frame	or hinge installation.	
In stainless steel. For external fixing points. Direct fitting through the fo To be installed prior to the e	our corner shafts extension frame ositions (0°, 45°, '	or hinge installation. 90°).	_
In stainless steel. For external fixing points. Direct fitting through the fo To be installed prior to the e	our corner shafts extension frame	or hinge installation.	_
In stainless steel. For external fixing points. Direct fitting through the fo To be installed prior to the e	our corner shafts extension frame ositions (0°, 45°, '	or hinge installation. 90°).	_
- In stainless steel. - For external fixing points. - Direct fitting through the fo - To be installed prior to the e	our corner shafts extension frame ositions (0°, 45°, '	or hinge installation. 90°).	_
- In stainless steel. - For external fixing points. - Direct fitting through the for - To be installed prior to the e - Three optional mounting po	our corner shafts extension frame ositions (0°, 45°, VXXAWNJB	or hinge installation. 90°). 4TBV853064C0100	1
In stainless steel. For external fixing points. Direct fitting through the for To be installed prior to the e Three optional mounting po Air vent - IP45 Installation of two air vents p	our corner shafts extension frame ositions (0°, 45°, VXXAWNJB	or hinge installation. 90°). 4TBV853064C0100	1
- In stainless steel. - For external fixing points. - Direct fitting through the for - To be installed prior to the e - Three optional mounting po - Three optional mounting po - Air vent - IP45 Installation of two air vents p	our corner shafts extension frame ositions (0°, 45°, VXXAWNJB	or hinge installation. 90°). 4TBV853064C0100	1
In stainless steel. For external fixing points. Direct fitting through the for To be installed prior to the e Three optional mounting po Air vent - IP45 Installation of two air vents p	our corner shafts extension frame ositions (0°, 45°, VXXAWNJB VXXAWNJB per box to obtain Set of 2 pieces.	or hinge installation. 90°). 4TBV853064C0100 ventilation preventin	1 ng the
In stainless steel. For external fixing points. Direct fitting through the for To be installed prior to the e Three optional mounting po intree optional mounting po intre	our corner shafts extension frame ositions (0°, 45°, VXXAWNJB	or hinge installation. 90°). 4TBV853064C0100	1
In stainless steel. For external fixing points. Direct fitting through the for To be installed prior to the e Three optional mounting por Steeler Steeler Steeler Intree optional mounting por Steeler	our corner shafts extension frame ositions (0°, 45°, VXXAWNJB VXXAWNJB per box to obtain Set of 2 pieces.	or hinge installation. 90°). 4TBV853064C0100 ventilation preventin	1 ng the
In stainless steel. For external fixing points. Direct fitting through the for To be installed prior to the e Three optional mounting po Air vent - IP45 Installation of two air vents p	our corner shafts extension frame ositions (0°, 45°, VXXAWNJB VXXAWNJB per box to obtain Set of 2 pieces.	or hinge installation. 90°). 4TBV853064C0100 ventilation preventin	1 ng the
In stainless steel. For external fixing points. Direct fitting through the for To be installed prior to the er Three optional mounting por Air vent - IP45 Installation of two air vents promation of condensation. So	our corner shafts extension frame ositions (0°, 45°, VXXAWNJB VXXAWNJB per box to obtain Set of 2 pieces.	or hinge installation. 90°). 4TBV853064C0100 ventilation preventin	1 ng the
Set of 4 brackets with screws - In stainless steel. - For external fixing points. - Direct fitting through the for - To be installed prior to the e - Three optional mounting por - Air vent - IP45 Installation of two air vents p formation of condensation. S - Blanking plate For 4 modules	our corner shafts extension frame ositions (0°, 45°, VXXAWNJB VXXAWNJB per box to obtain Set of 2 pieces.	or hinge installation. 90°). 4TBV853064C0100 ventilation preventin	1 ng the
In stainless steel. For external fixing points. Direct fitting through the for To be installed prior to the e Three optional mounting po	our corner shafts extension frame ositions (0°, 45°, VXXAWNJB VXXAWNJB per box to obtain Set of 2 pieces.	or hinge installation. 90°). 4TBV853064C0100 ventilation preventin	1 ng the
In stainless steel. For external fixing points. Direct fitting through the for To be installed prior to the e Three optional mounting por Air vent - IP45 Installation of two air vents p formation of condensation. S Blanking plate For 4 modules	our corner shafts extension frame ositions (0°, 45°, VXXAWNJB VXXAWNJB per box to obtain Set of 2 pieces.	or hinge installation. 90°). 4TBV853064C0100 ventilation preventin	1 ng the 1
In stainless steel. For external fixing points. Direct fitting through the for To be installed prior to the e Three optional mounting po Air vent - IP45 Installation of two air vents p formation of condensation. S Blanking plate	our corner shafts extension frame sations (0°, 45°, 1 VXXAWNJB ver box to obtain Set of 2 pieces. ACC818078	or hinge installation. 30°). 4TBV853064C0100 ventilation prevention 4TBJ818078R0100	1 ng the 1

roduct	Туре	Order code	Pack
over screws			
	Set of 4 piece	s.	
	VXXCWNJ6	4TBV853057C0100	1
inge screws			
he base must bed before fixe et of 2 pieces.	ed prior to hing	e installation.	
-			
	VXXHWNJ6	4TBV853061C0100	1
inges made of molded mate			
o mount the hinges, the cove emplates are provided. The k einforcement plates, drilling	it includes: two	hinges, screws,	-
20		· · ·	
*	VXXHWNJ7	4TBV853340C0100	1
lip-in button			
or cover screws or hinge scre	ews. Set of 4 pie	eces.	
<u>م</u>			
	VXXAWNJ7	4TBV853058C0100	1
	·		
lip-in button			
•	For fixation ir	the base.	
	5 x 13		
Summer State	VXXAWNJC	4TBV853100C0100	50
- & w	5 x 16		
	VXXAWNJD	4TBV853101C0100	50
N	5x22		
× *	VXXAWNJA	4TBV853102C0100	50
	To fix the equ	ipment onto the	
	metal mounti	ng plates.	
crews for depth extension f	rame		
17	Replacement	parts	
	VXXDWNJ6	4TBV853056C0100	4
ixation set for cover plate			
n	Replacement	parts	
111	VXXPWNJ7	4TBV853053C0100	1
ixation set for mounting pla	te		
	For metal or F	Pertinax	
	Replacement		
<i>4</i> 1 ×	VXXIMANDE	ATRV052054C0100	1

VXXIWNJ6

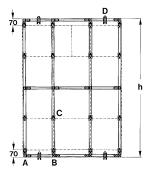
4TBV853054C0100 1

VMS - Accessories

Product		Туре	Order code	Pack
Cover plate	for DIN rail functi	ons		
		VMS33 2 rows For V33BWDJ6	5	
	2	V33PWNJ9	4TBV853327C0100	1
-	*	VMS43 2 horiz For V43BWDJ7		
		V43PWNJ9	4TBV853330C0100	1
		VMS63 2 horiz For V63BWDJ6		
•	•	V63PWNJ0	4TBV853333C0100	1
		VMS63 4 rows For V63BWDJ6	5	
		V63PWNJ9	4TBV853332C0100	1
		VMS64 4 rows For V64BWDJ6	5	
		V64PWNJ8	4TBV853334C0100	1

Product	Туре	Order code	Pack
Cover plate for fuse swite mounted on a 60mm rail			ents
	VMS 32 (Cut-out 19	95x135mm)	
	V32PWNJ8	4TBV853173C0100	1
	A	ur V33BWHE5 95 x 235 mm)	
	V33PWNJ8	4TBV853174C0100	1
		ur V33BWHE5 95x240mm 2 pieces)	
	V63PWNJ8	4TBV853176C0100	1

VMS - Supporting frame for wall mounting



- Fixing small units onto the wall can be done using the stainless steel mounting brackets.
- To transport and fix units with more than five enclosures, the use of a frame is essential.
- The frame includes at least 2 horizontal C-profiles (of an equal length to the width of the unit) and vertical C-profiles (equal to the number of rows +1).
- If the unit exceeds a height of 1000mm, three horizontal C-profiles are required.
- The vertical C-profiles are 140mm longer than the height of the assembled panel.
- The frame and the unit are built simultaneously.



The horizontal and vertical C-profiles of the first row of enclosures are attached to each other by clamping brackets with sliding nuts. The following clamping brackets are mounted in the same way on the horizontal profile.



The following rows are mounted in the same way on the frame.



The first row of enclosures is then mounted on vertical profile with the clamping plates.



Frame and enclosure assemblies are mounted simultaneously.

Product	Туре	Order code	Pack
C-Profile in aluminum			
	30 x 17 x 3mm Length = 3 m		
16 	APACC851254	4TBO851254C0100) 1

с

With bolts and two sliding nuts

M8. To mount the upper and lower C-profiles to the vertical support-profiles

APACC851253 4TBO851253C0100 1

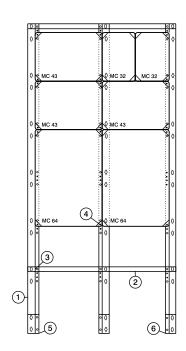
Clamping bracket

9 6

Туре	Order code	Pack
To fix the	Delivered with bolt and sliding n To fix the enclosures onto the ver support profiles.	
APACC851	415 4TBO851415C0	100 1
	Delivered To fix the support p	Delivered with bolt and sliding to the vertice of the second seco

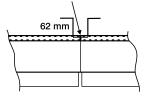
Clamping bracket	
	To fix the enclosures onto the fixation plate.
	APACC851249 4TBO851249C0100 1

VMS - Supporting frame for floor standing



Accessories

Position of the vertical profile in case of transport separation and / or expansion



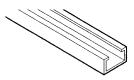
Туре

Order code

Pack



Z-Profile



C-Profile



M5×16



① Vertical Z-profile - RAL 9001			
Aluzinc - L = 2 360mm, for 6 × 320	VXXFWNJ7	4TBV855515C0100	
Aluzinc - L = 2 040mm, for 5 × 320	VXXFWNJ8	4TBV855516C0100	
Aluzinc - L = 1 080 mm, for 3 × 320	VXXFWNJ9	4TBV855517C0100	
Aluzinc - L = 760 mm, for 2 × 320	VXXFWNJO	4TBV855518C0100	1
② Horizontal - C-profile			
Length = 3 000 mm	ACC811619	4TBC811619C0100	1
③ Fixation bracket			
Fixing screw M5 × 16 mm	VXXFWNJA	4TBV855519C0100	1
to connect the vertical and horizontal profiles			
④ Screw			
M5×16 DIN 7500-C - TORX	VXXFWNJB	4TBV855520C0100	50
Stand support			
⑤ Left	VXXFWNJC	4TBV855521C0100	
6 Right	VXXFWNJD	4TBV855522C0100	1

22

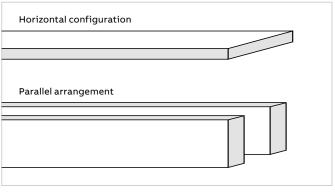
VMS - Modular insulated enclosures

Туре		VMS 32	VMS 33	VMS 43	VMS 63	VMS 64
Enclosures for DIN equipment						
Without cover and combi end-plates for assembly of modular units.						
Includes: - base with four open sides - mounting frame with earth-rail and cover plate - earth terminal						
DIN rail distance 125mm		(horizontal)		(horizontal)	(horizontal)	(vertical)
		14 modules	28 modules	40 modules	56 modules	80 modules
	Type Order code	V32BWDJ6 4TBV853125C0100	V33BWDJ6 4TBV853127C0100	V43BWDJ7 4TBV853266C0100	V63BWDJ6 4TBV853267C0100	V64BWDJ6 4TBV853268C0100
				(vertical)	(vertical)	
				42 modules	56 modules	
	Type Order code			V43BWDJ6 4TBV853129C0100	V63BWDJ6	
	order code			410/03312900100	410/03313100100	
Enclosures for DIN equipment		320 x 220 x 179		440 x 320 x 179	640 x 320 x 179	
Includes: • base with four closed sides		14 modules		28 modules	42 modules	
 with combi end-plates: at the tep: 17 x M20 	Туре	V32BTDJ7		V43BTDJ6	V63BTDJ7	
at the top: 17 x M20 at the bottom: 1 x M50 / 40	Order code	4TBV853159C0100		4TBV853160C0100	4TBV853161C0100	
 + 2 x M40 / 32 + 8 x M25 / 20 bare frame fitted with an earth terminal and cover plate transparent pivoting cover (VMS 43) transparent cover, attached with screws (VMS 32 - VMS 63) 						
Modular insulated enclosures with DIN Rails Without cover plates and entry						
caps.			5P, 250 A		5P, 250 A	
With 250A / 400A Rail system with 5 poles.			MFR352		MFR652	
Without terminals.	Туре		V33BWBE5		V63BWBE5	
For the covers, see the selection chart on page 16/84	Order code		4TBV853252C0100		4TBV853253C0100	

VMS - Busbar system



Universal busbar system 125A-1100A Approved by KEMA according to EN 61439-1



Accessories

Product	Туре	Order code	Pack
Horizontal configurati	on 125A / 250A		
1	Parallel arrar	igement 250A	
an 1 1	VXXSWNE5	4TBV853076C0100	10
To March and			
1 manual B			
14			

Product	Туре	Order code	Pack
Parallel arrangement 63	0A / 1100A		
	5 pole 100%		
man	VXXSWNI5	4TBV853077C0100	10
i internet			
Rail connector			
	1P, 630 A		
3	VXXRWNG1	4TBV783267C0100	1
3			

Horizontal configuration 125A / 250A



Parallel arrangement 400A VXXSWNF5 4TBV853076C0100 10

Notes

VMS - Busbar system 125 A-1 250 A

	Horizontal configuration	<u>i</u>		Parallel arrangement
	■ • • • • • • • • • • • • • • • • • • •			
Rated nominal current in	125/160 A	250A	250A	250A
Busbar supports				
Туре		VXXS	SWNE5	
Order code		4TBV853	3075C0100	
Pack	1	1	1	1
Center distance of phase bars (mm)	40	40	40	50
Distance between N or \div and the closest phase (mm)	50	50	50	45
Busbars				
Type code for phase bar	APACC858034	APACC858035	APACC858034	APACC858034
Order code for phase bar	-	4TBO858035C0100	-	-
Type code for bars N - \div	APACC858034	APACC858034	APACC858034	APACC858034
Order code for bars N - \doteq	-	-	-	-
Packaging for 3 m length	1	1	1	1
Number and dimensions of phase bars	1x(12x5)	1 x (12 x 10)	2x(12x5)	2x(12x5)
(L1 - L2 - L3)				
Number and dimensions of bars N- \div	1x(12x5)	1x(12x5)	1x(12x5)	2x(12x5)
Section by phase (mm²)	60	120	120	120
Section by N - ÷ (mm²)	60	60	60	120
Specifications				
Center distance of busbar supports (mm)	320	320	320	320
Dynamic short-circuit resistance (kA peak)	40	40	40	30
Dynamic short-circuit resistance (kA. eff.)	20	20	20	15
				,

VMS - Busbar system 125 A-1 250 A

				B + 45 45 50 8 50 45 45 45 45
400A	630A	630A	1100A	1100A
VXXSWNF5 4TBV853076C0100			XXSWNI5 853077C0100	
1	1	1	1	1
50	50	50	50	50
45	45	45	45	45
APACC858036	APACC858037	APACC858036	APACC858039	APACC858038
4TB0858036C0100	4TBO858037C0100	4TBO858036C0100	4TBO858039C0100	4TBO858038C0100
APACC858034	APACC858036	APACC858036	APACC858038	APACC858038
-	4TBO858036C0100	4TBO858036C0100	4TBO858038C0100	4TBO858038C0100
1	1	1	1	1
2x(20x5)	2x(20x10)	4x(20x5)	2x(30x10)	4x(30x5)
2x(12x5)	2x(20x5)	2x(20x5)	2x(30x5)	2x(30x5)
200	400	400	600	600
120	200	200	300	300
320	320/250	320/250	320	320
42	43.6/52.5	43.6/52.5	53	52.5
20	20.8/25	20.8/25	25	25
4				

VMS - Busbar system 125 A–1 250 A

Horizontal configuration

Product				Туре	Order code	Pack
Cable-bar connect	ion sockets 12×5	5 / 12×10				
Main bar width	Cable section	1	Clamp width X	Cable clamp		
	(mm²)		(mm)			
	Min.	Max.				
5	1.5	16	11.5	APACC858026	4TBO858026C0100	20
5	1.5	35	15.5	APACC858028	4TBO858028C0100	10
5	16	70	20.5	APACC858032	4TBO858032C0100	10
5	16	120	23.5	APACC858033	4TBO858033C0100	10
10	1.5	16	11.5	APACC858027	4TBO858027C0100	20
10	1.5	35	15.5	APACC858029	4TBO858029C0100	10
10	16	70	20.5	APACC858030	4TBO858030C0100	10
10	16	120	30.5	APACC858031	4TBO858031C0100	10



VMS - Parallel busbar arrangement

.я	q	<u>p</u>
	Q	Q

 p	<u>19</u>
Q	

		Туре	Order code	Pack
Busbars with I	norizontal fixat	ion		
Connecting blo	ocks			
		For flat coppe widths of 25, 3		
	APACC858003	7GSB858003R0000	10	
		For flat coppe widths of 20 o		
	+20+	APACC858004	4TB0858004C0100	10
		For flat coppe widths of 15 o		
	+20+	APACC858005	4TB0858005C0100	10

M10x60

M10x80

For 10mm

thick bars

M10x60

M10x80

b

12

12

20

20

30

30

APACC858011

s

5

10

5

10

5

10

APACC858008 4TBO858008C0100 10

APACC858010 4TBO858010C0100 10

APACC858013 7GSB858013R0000 10

х

40

45

48

53

58

63

4TBO858011C0100 10

L

60

60

60

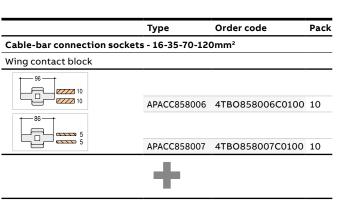
60

60

80

 \supset

10+ +10

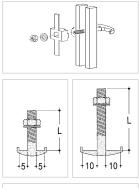


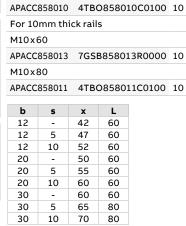
M10x60

M10x80

Anchor bolts

For 5mm thick rails





APACC858008 4TBO858008C0100 10

Koppelki	Koppelkit IP65 / IP54				
Cable cla	mps for fix	ing to th	e contact block v	vings	
Cable section mm²) Min.	Cable section mm²) Max.	Clamp width X (mm)			
1.5	16	11.5	APACC858026	4TBO858026C0100	20
1.5	35	15.5	APACC858028	4TBO858028C0100	10
16	70	20.5	APACC858032	4TBO858032C0100	10
16	120	23.5	APACC858033	4TBO858033C0100	10
			1		

Legend:

Anchor bolts

For 5mm thick bars

- b: height of rectangular bars
- s: thickness of the rectangular bar or
- cable-shoe or flat copper x: minimum bolt length required
- L: length of fitting hook bolt or bolt with rectangular head

22

ARIA - Universal polyester enclosures



Applications

- Manufacturing
- Breweries
- Steelworks
- Public works
- Petro-chemical industry
- Road signage

Specifications

- Temporary connections
- Telecoms
- Solar energy applications

Standard: EN/IEC 61439-2, EN/IEC 60529, EN/IEC 62262, EN/IEC 62208

Standards/Certification

- Seven different types, from 315x215 to 1035x835 mm.
- Enclosures made from light gray polyester (RAL 7035), hot press molded, glass fiberreinforced, dyed in the mass.
- The enclosure is equipped with 4 threaded rods and 4 nuts for securing a mounting plate or frame and is equipped as standard with a double-bit key lock.
- Maximum protection for the user and equipment thanks to its total insulation 🔲 and IP65/66 protection rating in accordance with EN/IEC 62208.
- IK08 protection rating against external mechanical impacts in accordance with EN/IEC 62208 (IK07 for cabinets with windows).
- Polyester boxes can resist temperatures of up to 70°C under continuous operation and peak temperatures of up to 130 °C.
- Self-extinguishing polyester, halogen-free.
- Insulation voltage U_i = 1000 V ac and 1500 V dc



22

ŶL)

• UL types 3, 3R, 3S, 4, 4X, 12 and 13 Available upon request.



• CSA types 3, 3R, 3S, 4, 4X, 12 and 13 Available upon request.

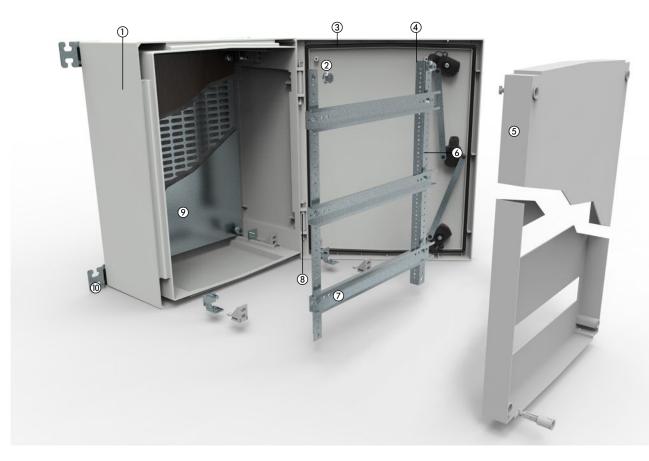
LR - Lloyd's Register of Shipping (IP66 versions with center lock)



22/45

General purpose enclosures

ARIA - Universal polyester enclosures



- 1. Monobloc base
- 2. Detachable door, left-hand or right-hand opening
- 3. No water stagnation on the seal
- 4. Mounting point in the door
- 5. Front plate:
 - polyester RAL 7035
 - hinged
 - detachable
 - stand-alone
 - -sealable
 - quick installation
 - 3-point closure lock

- 6. Interchangeable cylinders
- 7. Individual connection busbars
- 8. Mounting frame:
 - removable
 - perforated
 - reinforced DIN rails
- 9. Integral hinges 180° pivoting door
- **10.** Mounting plate
 - metal
 - pertinax
 - perforated
- **11.** Mounts directly onto the wall or via external mounting lugs made from stainless or synthetic material

ARIA - Universal polyester cabinets

Type ARIA 32 ARIA 43 Individual front plates HxW xD 315 x215 x170 415 x315 x170 Image: Strain				0	8
Individual front plates HxW xD 315 x 215 x 170 415 x 315 x 170 Image: Strate in the strat		Tuna		ABIA 22	ADIA 43
Image: Second					
With one or two double-bit, 3mm locks Order code 4TBA331035C0100 two-point closure AR043733 AR043733 Enclosure with inspection panel [E]P65 - IK07 Type - AR043733 With one or two double-bit, 3mm locks Order code 4TBA331035C0100 Single-point closure Enclosure With inspection window [E]P66 - IK07 Type AR043733 AR043733 With 1 double-bit, 3mm center lock Order code 4TBA331035C0100 HTBA331035C0100 With 1 double-bit, 3mm center lock Order code 4TBA331035C0100 HTBA331815C0100 With 1 double-bit, 3mm center lock Order code 4TBA331035C0100 HTBA331815C0100 With 1 double-bit, 3mm center lock Order code 4TBA331034C0100 HTBA331815C0100 With 1 double-bit, 3mm center lock Order code 4TBA331034C0100 HTBA331034C0100 Mith 1 security lock handle Order code - - With 1 security lock handle Order code HTBA331034C0100 HTBA331034C0100 Zimm Sendzimir galvanized steel panel Type AR043033 AR043033 Order code Type AR03203 AR043003 Order code Type AR032003 AR043003 Order code Type AR032003 AR043003 <t< td=""><td></td><td>Individual none plates traw x b</td><td></td><td>51576157110</td><td>41575157170</td></t<>		Individual none plates traw x b		51576157110	41575157170
With one or two double-bit, 3mm locks Order code 4TBA831035C0100 Enclosure with inspection panel II IP65 - IK07 With one or two double-bit, 3mm locks Type - AR043733 AR043P33 AR043P33 AR043P33 AR043P33 Image: Comparing the second s		Enclosure 回 IP65 - IK08.	Туре	-	AR043P13 ⁽¹⁾
Image: Problem with inspection panel II (P65 - IK07) Type AR043733 Image: Problem with inspection panel II (P65 - IK07) Order code ATBAB31128C0100 Image: Problem with inspection window II (P66 - IK07) Type AR032P13 th Image: Problem with inspection window III (P66 - IK07) Type - AR043P33 Image: Problem with inspection window III (P66 - IK07) Type - AR043P33 Image: Problem with inspection window III (P66 - IK07) Type - AR043P33 Image: Problem with inspection window III (P66 - IK07) Type - AR043P33 Image: Problem With Inspection window III (P66 - IK07) Type - AR043P33 Image: Problem With Inspection window III (P66 - IK07) Type - - Image: Problem With I security lock handle Order code - - Image: Problem With I security lock handle Order code - - Image: Problem With I security lock handle Order code - - Image: Problem With I security lock handle Order code - - Image: Problem With I security lock handle Order code - - Image: Problem With I security lock handle Order code - - Image: Problem With I security lock handle Order code <			Order code		4TBA831035C0100
With one or two double-bit, 3mm locks Order code 4TBA31128C0100 single-point closure AR043P33 Image: Consure Bit P66 - IK08 Type AR022P13 th Image: Consure Bit P66 - IK08 Type AR043P33 Image: Consure Bit P66 - IK08 Type AR043H33 Image: Consure Bit P66 - IK08 Type AR043H33 Image: Consure Bit P66 - IK07 Type AR043H33 Image: Consure Bit P66 - IK07 Type AR043H33 Image: Consure Bit P66 - IK07 Type - Image: Consure Bit P66 - IK07 Type AR032003 Image: Consure Bit P66 - IK07 Type AR032003 Image: Consure Bit P66 - IK07 Type <td></td> <td>two-point closure</td> <td></td> <td></td> <td></td>		two-point closure			
Image: State of the second st				-	
Image: State Stat		With one or two double-bit, 3 mm locks	Order code		
Enclosure © IP66 - IK08 Type AR032P1 3 ²⁰ With 1 double-bit, 3mm center lock Order code 4TBA831035C0100 Enclosure with inspection window © IP66 - IK07 Type - AR043T23 With 1 double-bit, 3mm center lock Order code 4TBA831031000 AR043T23 With 1 security lock handle Order code 4TBA831037C0100 4TBA831034C0100 With 1 security lock handle Order code 4TBA831037C0100 4TBA831034C0100 With 1 security lock handle Order code - - Mounting plates Order code - - Dimensions HxW Ype AR03203 AR04303 Pertinax 5mm Type AR032003 AR04303 Order code 4TBA831032C0100 4TBA831032C0100 Zam Sendzimir galvanized steel panel Type AR03203 AR04303 Order code 4TBA831032C0100 4TBA831032C0100 4TBA831032C0100 Zam Sendzimir galvanized steel panel Type AR03203 AR04303 Order code 4TBA831032C0100 4TBA831032C0100 4TBA831032C0100 Rows 2 2 2 2 <td></td> <td></td> <td></td> <td></td> <td></td>					
With 1 double-bit, 3 mm center lock Order code 4TBA831025C0100 4TBA831036C0100 Ithree-point dosure mechanism - AR043123 Enclosure With I double-bit, 3mm center lock Order code 4TBA831035C0100 With 1 double-bit, 3mm center lock Order code 4TBA831035C0100 With 1 security lock handle Order code 4TBA831037C0100 Faclosure With inspection window [] IP66 - IK07 Type - Faclosure With inspection window [] IP66 - IK07 Type - Faclosure With inspection window [] IP66 - IK07 Type - Faclosure With inspection window [] IP66 - IK07 Type - Mounting plates - - Dimensions H.xW 250 x 150 350 x 250 Pertinax 5 mm Type AR032010 4TBA831032C0100 2mm Sendzimir galvanized steel panel Type AR033003 Order code 0rder code Type AR032003 AR043103 0rder code TBA831032C0100 4TBA831032C0100 TBA831032C0100 1.5 mm perforated metal panel Type AR03203 AR04303 Order code TBA831032C0100 4TBA831032C0			Type	AR032P13(1)	AR043P33
three-point closure mechanism Enclosure with inspection window [] IP66 - IK07 Type AR032T13 AR043H33 AR043H3 AR0					4TBA831036C0100
Enclosure with inspection window © IP66 - IK07 with 1 double-bit, 3mm center lock Type - AR043123 (Taba31815C0100) Enclosure © IP66 - IK08 With 1 security lock handle Type AR032T13 (Taba31815C0100) AR043H33 Enclosure © IP66 - IK08 With 1 security lock handle Type AR032T000 ATBA831307C0100 ATBA831307C0100 Enclosure with inspection window © IP66 - IK07 With 1 security lock handle Type - - Mounting plates - - - Dimensions HxW Ype 250 x 150 350 x 250 Pertinax 5mm Type AR032I03 AR043I03 Order code 4TBA831037C0100 4TBA831037C0100 2mm Sendzimir galvanized steel panel Type AR032I03 AR043003 Order code 4TBA831037C0100 4TBA831037C0100 TBA831037C0100 1.5 mm perforated metal panel Type AR032D03 AR043003 Mounting frame Type AR032D03 AR043003 Modules 12 24 24 Image: Solid Type AR032C03 AR043003 Modules 12 24 3 Image: Solid Type AR032C03 AR043003 Modules 12 2 3 Image: Solid Type<	a a a				
with 1 double-bit, 3mm center lock Order code 4T8A831815C0100 Enclosure II IP66 - IK08 With 1 security lock handle Type AR032T13 Enclosure with inspection window II IP66 - IK07 Type - Enclosure with inspection window II IP66 - IK07 Type - With 1 security lock handle Order code - With 1 security lock handle Order code - With 1 security lock handle Order code - Mounting plates Dimensions HxW 250 x 150 350 x 250 Pertinax 5 mm Type AR032103 AR043103 Order code 4T8A831027C0100 4T8A831038C0100 2mm Sendzimir galvanized steel panel Type AR032003 AR04303 Order code 4T8A831027C0100 4T8A831032C0100 4T8A831032C0100 2mm Sendzimir galvanized steel panel Type AR032003 AR04303 Order code 4T8A831032C0100 4T8A831032C0100 4T8A831032C0100 1.5mm perforated metal panel Type AR03203 AR04303 Order code 4T8A831032C0100 4T8A831032C0100 4T8A831032C0100 Mounting frame Type AR03203 AR04303 Rows 2 2 2 Rows 12 2		· · · · · · · · · · · · · · · · · · ·	Туре	-	AR043T23
Enclosure Inclosure Inclo					4TBA831815C0100
With 1 security lock handle Order code 4TBA831307C0100 4TBA831034C0100 Enclosure with inspection window III P66 - IK07 With 1 security lock handle Type - - Order code Order code - - Image: Dimensions HxW 250 x 150 350 x 250 Pertinax 5 mm Type AR032103 AR043103 Order code 4TBA831027C0100 4TBA831038C0100 2 mm Sendzimir galvanized steel panel Type AR032003 AR043003 Order code 4TBA831026C0100 4TBA831037C0100 4TBA831037C0100 1.5mm perforated metal panel Type AR032003 AR043003 Order code 4TBA831332C0100 4TBA831037C0100 AR043003 Mounting frame Type AR032003 AR043003 Rows 2 2 2 Modules 12 24 Image: Solid Type AR831018 Vinder code 4TBA831018C0100 4TBA831019C0100 Number of terminals 2 3 Full cover plates 12 2 Solid Type AR032C03 AR043C03 Order code 4TBA831018C0100 4TBA831039C0100 Mounting for DIN rail equipment Type AR032C03					AR043H33
Image: Stress of the second state o					
With 1 security lock handle Order code Mounting plates Dimensions HxW 250 x 150 350 x 250 Pertinax 5 mm Type AR032/03 AR043103 2mm Sendzimir galvanized steel panel Type AR032/03 AR043103 2mm Sendzimir galvanized steel panel Type AR032/03 AR043003 1.5mm perforated metal panel Type AR032/03 AR043003 Order code 4TBA831032C0100 4TBA831032C0100 AR043D03 Order code 4TBA831332C0100 AR043003 Order code 4TBA831332C0100 AR043003 AR043003 Mounting frame Type AR032D03 AR043D03 Rows 2 2 AR043D03 Modules 2 2 2 Modules 12 2 2 Mounting frame Type AR032D03 4TBA831019C0100 Rows 2 2 2 Moules 12 2 2 Moules 2 3 3 Moules 2 3 3 Moules 2 </td <td></td> <td>With 1 security lock handle</td> <td>Order code</td> <td>4TBA831307C0100</td> <td>4TBA831034C0100</td>		With 1 security lock handle	Order code	4TBA831307C0100	4TBA831034C0100
With 1 security lock handle Order code Mounting plates Dimensions HxW 250 x 150 350 x 250 Pertinax 5 mm Type AR032/03 AR043103 2mm Sendzimir galvanized steel panel Type AR032/03 AR043103 2mm Sendzimir galvanized steel panel Type AR032/03 AR043003 1.5mm perforated metal panel Type AR032/03 AR043003 Order code 4TBA831032C0100 4TBA831032C0100 AR043D03 Order code 4TBA831332C0100 AR043003 Order code 4TBA831332C0100 AR043003 AR043003 Mounting frame Type AR032D03 AR043D03 Rows 2 2 AR043D03 Modules 2 2 2 Modules 12 2 2 Mounting frame Type AR032D03 4TBA831019C0100 Rows 2 2 2 Moules 12 2 2 Moules 2 3 3 Moules 2 3 3 Moules 2 </td <td></td> <td></td> <td></td> <td></td> <td></td>					
With 1 security lock handle Order code Mounting plates Dimensions HxW 250 x 150 350 x 250 Pertinax 5 mm Type AR032/03 AR043103 2mm Sendzimir galvanized steel panel Type AR032/03 AR043103 2mm Sendzimir galvanized steel panel Type AR032/03 AR043003 1.5mm perforated metal panel Type AR032/03 AR043003 Order code 4TBA831032C0100 4TBA831032C0100 AR043D03 Order code 4TBA831332C0100 AR043003 Order code 4TBA831332C0100 AR043003 AR043003 Mounting frame Type AR032D03 AR043D03 Rows 2 2 AR043D03 Modules 2 2 2 Modules 12 2 2 Mounting frame Type AR032D03 4TBA831019C0100 Rows 2 2 2 Moules 12 2 2 Moules 2 3 3 Moules 2 3 3 Moules 2 </td <td></td> <td>Enclosure with increation window 🕞 IDGG 1807</td> <td>Type</td> <td>_</td> <td>_</td>		Enclosure with increation window 🕞 IDGG 1807	Type	_	_
Mounting plates 250 x 150 350 x 250 Dimensions HxW 250 x 150 350 x 250 Pertinax 5 mm Type AR032103 AR043103 Order code 4TBA831037C0100 4TBA831038C0100 2mm Sendzimir galvanized steel panel Type AR032003 AR043M03 Order code 4TBA831026C0100 4TBA831037C0100 4TBA831037C0100 1.5mm perforated metal panel Type AR032Q03 AR043Q03 Order code 4TBA831030C0100 4TBA831332C0100 4TBA831332C0100 Mounting frame Type AR032D03 AR043D03 Rows 2 2 2 Modules 12 24 24 Mounting frame Type AR831018 AR831019 Number of terminals Type AR831018 AR831019 Number of terminals 2 3 3 Full cover plates Solid Type AR032C03 AR043C03 Order code 4TBA831028C0100 4TBA83103900100 3 With openings for DIN rail equipment Type AR032C03 AR043C03					
Dimensions HxW250 x 150350 x 250Pertinax 5 mmTypeAR032103AR043103Order code4TBA831027C01004TBA831038C01002 mm Sendzimir galvanized steel panelTypeAR032M03AR043M03Order code4TBA831026C01004TBA831037C01001.5 mm perforated metal panelTypeAR032Q03AR043Q03Order code4TBA831332C01004TBA831333C0100Mounting frameTypeAR032D03AR043D03Mounting frameTypeAR032D03AR043D03Modules222Modules1224Mounting frameTypeAR831018AR831019Modules122424Modules1233Modules1233Mumber of terminalsTypeAR03201004TBA831019C0100Mumber of terminalsTypeAR032003AR043C03With openings for DIN rail equipmentTypeAR032C03AR043C03With openings for DIN rail equipmentTypeAR032C01004TBA831029C0100With openings for DIN rail equipmentTypeAR032C03AR043503Yepen AR032C01004TBA831028C01004TBA831039C01004TBA831039C0100					
Pertinax 5 mmTypeAR032103AR043103Order code4TBA831027C01004TBA831038C01002 mm Sendzimir galvanized steel panelTypeAR032M03AR043M03Order code4TBA831026C01004TBA831037C01004TBA831037C01001.5 mm perforated metal panelTypeAR032Q03AR043003Order code4TBA831332C01004TBA831333C0100Mounting frameTypeAR032D03Mounting frameTypeAR032D03Order code4TBA831030C01004TBA831041C0100Rows22Modules1224Mounting for connection terminalsTypeAR031018AR831018AR8310194TBA831019C0100Number of terminalsTypeAR032C03Full cover platesSolidTypeAR032C03SolidTypeAR032C03AR043C03Order code4TBA831028C01004TBA831039C0100With openings for DIN rail equipmentTypeAR032C03AR043C03Order code4TBA831028C01004TBA831040C0100Order code4TBA831028C01004TBA831040C0100		Mounting plates			
Order code 4TBA831027C0100 4TBA831038C0100 2 mm Sendzimir galvanized steel panel Type AR032M03 AR043M03 Order code 4TBA83102C0100 4TBA831037C0100 1.5 mm perforated metal panel Type AR032Q03 AR043Q03 Order code 4TBA831332C0100 4TBA831333C0100 Mounting frame Type AR032D03 AR043D03 Rows 2 2 Modules 12 24 Modules 12 24		Dimensions HxW		250 x 150	350 x 250
2mm Sendzimir galvanized steel panel Type AR032M03 AR043M03 0rder code 4TBA831026C0100 4TBA831037C0100 1.5mm perforated metal panel Type AR032Q03 AR043Q03 0rder code 4TBA831332C0100 4TBA831333C0100 AR043D03 4TBA831332C0100 4TBA831332C0100 Mounting frame Type AR032D03 Rows 2 2 Modules 12 24 Modules 12 24 Mounting frame Order code 4TBA831018C0100 4TBA831019C0100 Rows 2 2 2 Modules 12 24 24 Mounting frame Type AR831018 AR831019 Number of terminals Type AR831018 AR831019 Number of terminals 2 3 3 Full cover plates Solid Type AR032C03 AR043C03 Order code 4TBA831028C0100 4TBA831039C0100 4TBA831039C0100 Mumber of terminals Type AR032C03 AR043C03 Order code 4TBA831028		Pertinax 5 mm			AR043I03
Order code 4TBA831026C0100 4TBA831037C0100 1.5 mm perforated metal panel Type AR032Q03 AR043Q03 Order code 4TBA831332C0100 4TBA831333C0100 Mounting frame Type AR032D03 Rows 2 2 Modules 12 24 Mounting for connection terminals Type AR831018 Mumber of terminals Type AR831018 Full cover plates 2 3 Full cover plates Solid Type AR032C03 With openings for DIN rail equipment Type AR032C03 AR04303 Order code 4TBA8310126C0100 4TBA831039C0100 With openings for DIN rail equipment Type AR032C03 AR043C03 Order code 4TBA8310128C0100 4TBA831039C0100					
1.5 mm perforated metal panelTypeAR032Q03AR043Q03Order code4TBA831332C01004TBA831333C0100Mounting frameTypeAR032D03Rows22Modules1224Mounting for connection terminalsTypeAR831018Muber of terminalsTypeAR831018AR831019Vert of terminalsTypeAR032C034TBA831019C0100Full cover plates233SolidTypeAR032C03AR043C03With openings for DIN rail equipmentTypeAR032C03AR043C03Order code4TBA831028C01004TBA831039C0100TypeAR032C03AR043C03Order code4TBA831028C01004TBA831039C0100Mith openings for DIN rail equipmentTypeAR032C03AR043S03Order code4TBA831028C01004TBA831039C01004TBA831040C0100		2 mm Sendzimir galvanized steel panel	2.		
Order code4TBA831332C01004TBA831333C0100Mounting frameTypeAR032D03Rows22Modules22Modules1224Busbars for connection terminalsTypeAR831018Order code4TBA831018C01004TBA831019Order code4TBA831018C01004TBA831019C0100Mumber of terminals23Full cover plates23SolidTypeAR032C03AR043C03Order code4TBA831028C01004TBA831039C0100With openings for DIN rail equipmentTypeAR032C03AR043503Order code4TBA831028C01004TBA831040C0100With openings for DIN rail equipmentTypeAR032C01004TBA831040C0100		1. Francisco de la constante de			
Mounting frame Type AR032D03 Order code 4TBA831030C0100 4TBA831041C0100 Rows 2 2 Modules 12 24 Busbars for connection terminals Type AR831018 AR831019 Order code 4TBA831018C0100 4TBA831019C0100 Number of terminals Order code 4TBA831018C0100 4TBA831019C0100 Full cover plates 2 3 3 Full cover plates Solid Type AR032C03 AR043C03 With openings for DIN rail equipment Type AR032S03 AR043S03 Order code 4TBA831029C0100 4TBA831040C0100		1.5 mm perforated metal panel			
Mounting frameTypeAR032D03Rows22Modules22Modules1224Busbars for connection terminalsTypeAR831018AR831019Order code4TBA831018C01004TBA831019C0100Number of terminals23Full cover platesSolidTypeAR032C03AR043C03Order code4TBA831028C01004TBA831039C0100With openings for DIN rail equipmentTypeAR032C03AR043S03Order code4TBA831029C01004TBA831040C0100With openings for DIN rail equipmentTypeAR032C01004TBA831040C0100Order code4TBA831029C01004TBA831040C0100			Uruer codé	41 DA031332CU1UU	
Order code4TBA831030C01004TBA831041C0100Rows22Modules1224Busbars for connection terminalsTypeAR831018AR831019Order code4TBA831018C01004TBA831019C0100Number of terminals23Full cover platesSolidTypeAR032C03AR043C03Order code4TBA831028C01004TBA831039C0100With openings for DIN rail equipmentTypeAR032S03AR043S03Order code4TBA831029C01004TBA831039C0100With openings for DIN rail equipmentTypeAR032S03AR043S03Order code4TBA831029C01004TBA831040C0100		Mounting frame	Туре	AR032D03	
Modules 12 24 Busbars for connection terminals Type AR831018 AR831019 Number of terminals 0rder code 4TBA831018C0100 4TBA831019C0100 Number of terminals 2 3 Full cover plates Solid Type AR032C03 AR043C03 Order code 4TBA831028C0100 4TBA831039C0100 With openings for DIN rail equipment Type AR032S03 AR043S03 Order code 4TBA831029C0100 4TBA831040C0100		-			4TBA831041C0100
12 24 Busbars for connection terminals Type AR831018 AR831019 Order code 4TBA831018C0100 4TBA831019C0100 Number of terminals 2 3 Full cover plates Solid Type AR032C03 AR043C03 Order code 4TBA831028C0100 4TBA831039C0100 With openings for DIN rail equipment Type AR032S03 AR043S03 Order code 4TBA831029C0100 4TBA831040C0100	11.11	Rows		2	2
Busbars for connection terminals Type AR831018 AR831019 Order code 4TBA831018C0100 4TBA831019C0100 Number of terminals 2 3 Full cover plates 7 7 Solid Type AR032C03 AR043C03 Order code 4TBA831028C0100 4TBA831039C0100 With openings for DIN rail equipment Type AR032S03 AR043S03 Order code 4TBA831029C0100 4TBA831040C0100	Ø ≡=	Modules			
Number of terminals Order code 4TBA831018C0100 4TBA831019C0100 2 3 Full cover plates Solid Type AR032C03 AR043C03 Order code 4TBA831028C0100 4TBA831039C0100 With openings for DIN rail equipment Type AR032S03 AR043S03 Order code 4TBA831029C0100 4TBA831040C0100				12	24
Number of terminals Order code 4TBA831018C0100 4TBA831019C0100 2 3 Full cover plates Solid Type AR032C03 AR043C03 Order code 4TBA831028C0100 4TBA831039C0100 With openings for DIN rail equipment Type AR032S03 AR043S03 Order code 4TBA831029C0100 4TBA831040C0100		Duchana fan anna stiss termin l	Trues	40021010	40031010
Number of terminals 2 3 Full cover plates		buspars for connection terminals			
Full cover plates Type AR032C03 AR043C03 Solid Type AR032C03 4TBA831039C0100 With openings for DIN rail equipment Type AR032S03 AR043S03 Order code 4TBA831029C0100 4TBA831040C0100		Number of terminals	Urder code		
Solid Type AR032C03 AR043C03 Order code 4TBA831028C0100 4TBA831039C0100 With openings for DIN rail equipment Type AR032S03 AR043S03 Order code 4TBA831029C0100 4TBA831040C0100				-	5
Solid Type AR032C03 AR043C03 Order code 4TBA831028C0100 4TBA831039C0100 With openings for DIN rail equipment Type AR032S03 AR043S03 Order code 4TBA831029C0100 4TBA831040C0100	<u></u>	Full cover plates			
With openings for DIN rail equipment Type AR032S03 AR043S03 Order code 4TBA831029C0100 4TBA831040C0100			Туре	AR032C03	AR043C03
Order code 4TBA831029C0100 4TBA831040C0100			Order code	4TBA831028C0100	4TBA831039C0100
		With openings for DIN rail equipment	Туре	AR032S03	AR043S03
	A A A			4TBA831029C0100	
	and the second sec	With openings for individual modular front	Туре	-	AR043E03
plates Order code 4TBA831790C0100		•	Order code		4TBA831790C0100
Number of individual modular front plates possible - 2				_	2
Note: the ARIA 43 and 86 cabinets and ARIA 64 and 108 cabinets contain the same modular clo-		Note: the ARIA 43 and 86 cabinets and ARIA 64			L
sure plates (Closed and with openings)					
Individual front plates H x W - 150 x 239	14			-	150 x 239
IP20 individual modular protective plates (PVC)		•			
Solid Type - AR043N03	~	Solid	Туре	-	AR043N03
Order code 4TBA831797C0100	1-2-		Order code		4TBA831797C0100
With openings for DIN rail equipment Type - AR043R03	se dar.	With openings for DIN rail equipment		-	
Order code 4TBA831796C0100			Order code		
Modules - 12		Modules		-	12

(1) single-point closure Pack = 1

22

ARIA - Universal polyester cabinets

				Ð
Ð	B	8		
ARIA 54	ARIA 64	ARIA 75	ARIA 86	ARIA 108
515x415x230	615x415x230	735x535x270	835x635x300	1035x835x300
AR054P23	AR064P23	AR075P23	AR086P23	AR108P23
4TBA831809C0100	4TBA831810C0100	4TBA831811C0100	4TBA831059C0100	4TBA831073C0100
AR054T23	AR064T23	AR075T23	-	-
4TBA831812C0100	4TBA831813C0100	4TBA831814C0100		
two-point closure	two-point closure	two-point closure		
AR054P33	AR064P33	AR075P33	AR086P33	AR108P33
4TBA831052C0100	4TBA831065C0100	4TBA831081C0100	4TBA831098C0100	4TBA831112C0100
AR054T33	AR064T33	AR075T33	AR086T33	AR108T33
4TBA831129C0100	4TBA831130C0100	4TBA831131C0100	4TBA831132C0100	4TBA831133C0100
AR054H33	AR064H33	AR075H33		AR108H33
			AR086H33	
4TBA831051C0100	4TBA831064C0100	4TBA831080C0100	4TBA831097C0100	4TBA831111C0100
	AR064TH3	AR075TH3	AR086TH3	AR108TH3
AR054TH3 4TBA831284C0100	4TBA831285C0100	4TBA831286C0100	4TBA831287C0100	4TBA831288C0100
450 x 350	550 x 350	650 x 450	750 x 550	950 x 750
AR054I03	AR064103	AR075103	AR086103	AR108I03
4TBA831054C0100	4TBA831067C0100	4TBA831083C0100	4TBA831100C0100	4TBA831114C0100
AR054M03	AR064M03	AR075M03	AR086M03	AR108M03
4TBA831053C0100	4TBA831066C0100	4TBA831082C0100	4TBA831099C0100	4TBA831113C0100
AR054Q03	AR064Q03	AR075Q03	AR086Q03	AR108Q03
4TBA831334C0100	4TBA831335C0100	4TBA831336C0100	4TBA831337C0100	4TBA831338C0100
	AR064D03	AR075D03	AR086D03	AR108D03
AR054D03				
4TBA831057C0100	4TBA831070C0100	4TBA831086C0100	4TBA831103C0100	4TBA831117C0100
3	3	4	4	5
54	54	88	96	180
AR831020	AR831020	AR831021	AR831022	AR831023
4TBA831020C0100	4TBA831020C0100	4TBA831021C0100	4TBA831022C0100	4TBA831023C0100
4	4	6	7	10
			_	
AR054C03	AR064C03	AR075C03	AR086C03	AR108C03
4TBA831055C0100	4TBA831068C0100	4TBA831084C0100	4TBA831101C0100	4TBA831115C0100
AR054S03	AR064S03	AR075S03	AR086S03	AR108S03
4TBA831056C0100	4TBA831069C0100	4TBA831085C0100	4TBA831102C0100	4TBA831116C0100
AR054E03	AR064E03	AR075E03	AR086E03	AR108E03
4TBA831791C0100	4TBA831792C0100	4TBA831793C0100	4TBA831794C0100	4TBA831795C0100
3	3	4	8	10
150 x 343	150 x 343	150 x 239	150 x 239	150 x 343
		400751102	4 8 6 4 2 1 2 2	
AR054N03	AR064N03	AR075N03	AR043N03	AR064N03
4TBA831799C0100	4TBA831801C0100	4TBA831803C0100	4TBA831797C0100	4TBA831801C0100
AR054R03	AR064R03	AR075R03	AR043R03	AR064R03
4TBA831798C0100	4TBA831800C0100	4TBA831802C0100 22	4TBA831796C0100	4TBA831800C0100
17	18	<u> </u>	12	18

ARIA - Universal polyester cabinets - Accessories

Product	I	Гуре	Order code	Pack	Product		Туре	Order code	Pac
Locks					Fixing lugs ⁽¹⁾				
With interchangeable cy	linders ((Supplied wi	th 1 key)		~		In 304 grade	stainless steel	
	3	3mm			2		Set of 4 piec	es	_
		AR831008	4TBA831008C010	0 1	Not a		ARACCB03	4TBA831000C0100	1
	ε	3mm			200		Set of 4 poly	amide pieces	
	0 4	AR831005	4TBA831005C010	0 1				-	
	ε	3mm			-				
	0 /	AR831006	4TBA831006C010	0 1					
\bigcirc	1	l1mm			N. 7				
°C	04	AR831007	4TBA831007C010	0 1			ARACCB13	4TBA831001C0100	
	c	Other locks: ple	ease contact us.						1
							(1) not supplie		
Handles		loutral band	le (without lock)		Hinge supports for	inner doo	r		
1		AR831003	4TBA831003R010	0 1	~~		Set of 2 niec	es, for front plate	
			41BA831003K010	0 1					_
		AR831004	4TBA831004R010	0 1	27 0	9	AR831010	4TBA831010C0100	1
			2 keys 1242E					nay be installed to- closed front plate.	
		AR831180	4TBA831180R010	0 1					
			2 keys 405E	0 1					
		AR831152	4TBA831152C010	0 1	Profile half cylinder	locks			
			2 keys 455E	0 1	Standard: D = 40mr	n - L = 30.5	mm		
		AR831153	4TBA831153C010	0 1	>		With 2 keys \	/2432-Е	
			ck, 45 mm semi-cyli		D	হি	PS832030	4TBP832030C0100	1
		profile	ek, ionin senn eyn	lanca	*	U	Replacemen	t keys for 832030	
2	F	AR831821	4TBA831821C010	0 1		,	PS832741	4TBP832741R0100	2
					P LG	_	With 2 keys 1	1242-E	
			double-bit lock or othe			(হ)	PS832031	4TBP832031C0100	1
			4, a mechanical adapta r openings is required.	-		U	With 2 keys 4	155-E	
					(E	হ	PS832465	4TBP832465C0100	1
		Jandle for lo	ck with semi-cylindı	rical		U	With 2 keys 4	105-E	
			cking by padlock	icai		(٢)	PS832466	4TBP832466R0100	1
		D001000	47040210226010	0 1		U	With a replac	cement key, 8 mm	
3	4	AR831822	4TBA831822C010	0 1		0	PS832032	4TBP832032C0100	1
9/					F	9	With an 8 mn	n triangular key	
			double-bit lock or othe 4, a mechanical adapta			٥	PS832033	4TBP832033C0100	1
			r openings is required.	-			With an 11 m	m triangular key	
						0	PS832034	4TBP832034C0100	1
						~	With 3 mm d	ouble-bit key	_
						۲	PS832029	4TBP832029C0100	1

Vents

(IP44 if fitting in the double corner)



Set of 2 ventil Bore hole Ø 34	5						
AR831009	AR831009 4TBA831009C0100 1						
See Sect. Cabine ditional ventilat	et ventilation for ad- ion options.						

_

ARIA - Universal polyester cabinets - Accessories

Product	Туре	Order code	Pack	Product	Туре	Order code	Pack
Metal frame				Module covers			
For ARIA 75 and 86, for tem	porary connecti	on enclosures			Sectionable	by 1/2 module	
		400 x 750 x 400 mm			12 modules	-	
	AR891854	4TBA891854C0100) 1		ZA3P5	4TBR610142C0200	5
					4 modules		
a manage and an and a second				1 aces	FORSTBP50	0 4TBR610484C0200	500
				Label holders			
					Adhesive		
11 11					APLB1M	4TBC851321C0100	1m
<u>Ч</u> <u>Ч</u>							
	- I			Document pocket			
Pedestal mounting assem	For ARIA 54	/6/			DIN A4 - LxH	l = 325 x 180 mm	
	AR891608	4TBA891608C0100) 1		AR811516	4TBC811516C0100	1
	AR891008 416A891008C0100			DIN A5 - LxH	l = 155 x 225 mm		
	Fixing lugs in stainless steel				PS832000	4TBP832000C0100	1
					10		
	included. Steel strips no	ot included.		/ //	///		
	included. Steel strips no	ot included.					
		ot included.					
a s		ot included.					
the state		ot included.					
and the second s		ot included.		Slide nuts			
Connection busbars		ot included.		Slide nuts For perforated mountin			
Connection busbars	Steel strips no				M4		
Connection busbars 6x10 mm ² + 2x16 mm ² clip	Steel strips no	ail			M4 AR831328	4TBA831328C0100	50
	Steel strips no onto 12 x 2 mm r Phase busb	ail ar - black			M4 AR831328 M5		_
	Steel strips no onto 12x2mm r Phase busb FORSTTL	ail ar - black 4TBR610185C0200) 4		M4 AR831328 M5 AR831329	4TBA831328C0100 4TBA831329C0100	_
	Steel strips no onto 12 x 2 mm r Phase busb FORSTTL Ground bus	ail ar - black 4TBR610185C0200 bar - green	_		M4 AR831328 M5 AR831329 M6	4TBA831329C0100	50
	Steel strips no onto 12 x 2 mm r Phase busb FORSTTL Ground bus FORSTTPE	ail ar - black 4TBR610185C0200 bar - green 4TBR610186C0200	_		M4 AR831328 M5 AR831329		50
	Steel strips no onto 12 x 2 mm r Phase busb: FORSTTL Ground bus FORSTTPE Neutral bus	ail ar - black 4TBR610185C0200 bar - green 4TBR610186C0200 bar - blue) 4		M4 AR831328 M5 AR831329 M6	4TBA831329C0100	50
	Steel strips no onto 12 x 2 mm r Phase busb FORSTTL Ground bus FORSTTPE	ail ar - black 4TBR610185C0200 bar - green 4TBR610186C0200) 4		M4 AR831328 M5 AR831329 M6	4TBA831329C0100	50
	Steel strips no onto 12 x 2 mm r Phase busb: FORSTTL Ground bus FORSTTPE Neutral bus	ail ar - black 4TBR610185C0200 bar - green 4TBR610186C0200 bar - blue) 4		M4 AR831328 M5 AR831329 M6	4TBA831329C0100	50
6x10 mm² + 2x16 mm² clip	Steel strips no onto 12 x 2 mm r Phase busb FORSTTL Ground bus FORSTTPE Neutral bus FORSTTN	ail ar - black 4TBR610185C0200 bar - green 4TBR610186C0200 bar - blue) 4	For perforated mountin	M4 AR831328 M5 AR831329 M6 AR831330	4TBA831329C0100	50
	Steel strips no onto 12 x 2 mm r Phase busb FORSTTL Ground bus FORSTTPE Neutral bus FORSTTN	ail ar - black 4TBR610185C0200 bar - green 4TBR610186C0200 bar - blue) 4	For perforated mountin	M4 AR831328 M5 AR831329 M6 AR831330	4TBA831329C0100 4TBA831330C0100	50
6x10 mm² + 2x16 mm² clip	Steel strips no onto 12 x 2 mm r Phase busbo FORSTTL Ground bus FORSTTPE Neutral bus FORSTTN	ail ar - black 4TBR610185C0200 bar - green 4TBR610186C0200 bar - blue) 4	For perforated mountin	M4 AR831328 M5 AR831329 M6 AR831330 Length 66 m AR831653	4TBA831329C0100 4TBA831330C0100 m for ARIA 32 4TBA831653C0100	50 50 20
6x10 mm² + 2x16 mm² clip	Steel strips no onto 12 x 2 mm r Phase busbo FORSTTL Ground bus FORSTTPE Neutral bus FORSTTN	ail ar - black 4TBR610185C0200 bar - green 4TBR610186C0200 bar - blue 4TBR610187C0200) 4) 4	For perforated mountin	M4 AR831328 M5 AR831329 M6 AR831330 Length 66 m AR831653	4TBA831329C0100 4TBA831330C0100	50 50 20
6x10 mm² + 2x16 mm² clip	Steel strips no onto 12x2mm r Phase busb FORSTTL Ground bus FORSTTPE Neutral bus FORSTTN gprofile Length 4150 AR831530 May also be us	ail ar - black 4TBR610185C0200 bar - green 4TBR610186C0200 bar - blue 4TBR610187C0200 mm for ARIA 54 and 64 4TBA831530C0100 sed for ARIA 32) 4) 4	For perforated mountin	M4 AR831328 M5 AR831329 M6 AR831330 Length 66 m AR831653	4TBA831329C0100 4TBA831330C0100 m for ARIA 32 4TBA831653C0100	50 50 20 nd 64
6x10 mm² + 2x16 mm² clip	Steel strips no onto 12 x 2 mm r Phase busb FORSTTL Ground bus FORSTTPE Neutral bus FORSTTN gprofile Length 415 AR831530 May also be us and 43 after c	ail ar - black 4TBR610185C0200 bar - green 4TBR610186C0200 bar - blue 4TBR610187C0200 mm for ARIA 54 and 64 4TBA831530C0100 sed for ARIA 32 utting out.) 4) 4	For perforated mountin	M4 AR831328 M5 AR831329 M6 AR831330 Length 66 m AR831653 Length 100. AR831652	4TBA831329C0100 4TBA831330C0100 m for ARIA 32 4TBA831653C0100 5mm for ARIA 43, 54 ar	50 50 20 nd 64 20
6x10 mm² + 2x16 mm² clip	Steel strips no onto 12 x 2 mm r Phase busb FORSTTL Ground bus FORSTTPE Neutral bus FORSTTN gprofile Length 415 AR831530 May also be us and 43 after c	ail ar - black 4TBR610185C0200 bar - green 4TBR610186C0200 bar - blue 4TBR610187C0200 mm for ARIA 54 and 64 4TBA831530C0100 sed for ARIA 32 utting out. mm for ARIA 108) 4) 4) 1	For perforated mountin	M4 AR831328 M5 AR831329 M6 AR831330 Length 66m AR831653 Length 100. AR831652 Length 131.	4TBA831329C0100 4TBA831330C0100 m for ARIA 32 4TBA831653C0100 5mm for ARIA 43, 54 ar 4TBA831652C0100 5mm for ARIA 75, 86 ar	50 50 20 nd 64 20 nd 108
6x10 mm² + 2x16 mm² clip	Steel strips no onto 12 x 2 mm r Phase busb: FORSTTL Ground bus FORSTTPE Neutral bus FORSTTN Sprofile Length 4150 AR831530 AR831533	ail ar - black 4TBR610185C0200 bar - green 4TBR610186C0200 bar - blue 4TBR610187C0200 mm for ARIA 54 and 64 4TBA831530C0100 sed for ARIA 32 utting out. mm for ARIA 108 4TBA831533C0100) 4) 4) 1	For perforated mountin	M4 AR831328 M5 AR831329 M6 AR831330 Length 66 m AR831653 Length 100. AR831652	4TBA831329C0100 4TBA831330C0100 m for ARIA 32 4TBA831653C0100 5mm for ARIA 43, 54 ar 4TBA831652C0100	50 50 20 nd 64 20 nd 108
6x10 mm² + 2x16 mm² clip	Steel strips no onto 12 x 2 mm r Phase busb: FORSTTL Ground bus FORSTTPE Neutral bus FORSTTN Sprofile Length 4150 AR831530 AR831533	ail ar - black 4TBR610185C0200 bar - green 4TBR610186C0200 bar - blue 4TBR610187C0200 at - blue 4TBR610187C0200 at - blue 4TBR610187C0200 at - blue 4TBR610187C0200 at - blue 4TBR610187C0200 at - blue 4TBR610187C0200 at - blue 4TBR610185C0200 at - blue 4TBR610186C0200 at - blue 4TBR610186C0200 at - blue 4TBR610186C0200 at - blue 4TBR610186C0200 at - blue 4TBR610186C0200 at - blue 4TBR610186C0200 at - blue 4TBR610187C0200 at - blue 4TBR6107 at - blue 4TBR) 4) 4) 1	For perforated mountin	M4 AR831328 M5 AR831329 M6 AR831330 Length 66m AR831653 Length 100. AR831652 Length 131.	4TBA831329C0100 4TBA831330C0100 m for ARIA 32 4TBA831653C0100 5mm for ARIA 43, 54 ar 4TBA831652C0100 5mm for ARIA 75, 86 ar	50 50 20 nd 64 20 nd 108

22

ARIA 75 - 🛛 IP44-IK10



ARIA 75

Combined site enclosure: a meter compartment and a distribution compartment, in compliance with electricity provider requirements.

- Lower wall: 1 x M32 and 1 x M16.
- The rear panel is equipped for wall mounting.
- Equipped with:
 - $1\,x\,25D60$ connection module with ELOS 4P 125 $A^{(1)}.$
 - 1 Diff-o-Jump differential switch, 4P 300 mA, type A.
 - circuit breakers for circuits.
 - 3x230 V to 3x400 V+N inverter for 2-pole 2P.
 - a ground isolation bar.
- power outlets according to applications.
- Dimensions: 700x500x270mm
- Important: frames must always be ordered separately.

(1) For the meter module: please contact the electricity provider

Site enclosures

	Equipment	Туре	Order code
32 A type	25S60 2 x 32 A 5P 6h 400 V EEC power outlets with tele contacts 2 power outlets with ground braid and child safety function Inverter 3P+N 400V / 3x230 V	AR891666	4TBA891666N2100
	Protection: 1 Diff-o-Jump type A 4P 40 A 300 mA 2 x 10 kA 3P+N 32 A power outlets with Tele L module 1 x 10 kA 2P 16 A Car. C power outlet.		
	25D60	AR891672	4TBA891672N2100
63 A type	25S60 1 x 63 A 5P 6h 400 V EEC power outlet with tele contact 1 CEE prise de courant 32A 5P 6h 400V met telecontact 2 power outlets with ground braid and child safety function Inverter 3P+N 400V / 3x230 V	AR891667	4TBA891667N2100
	Protection: 1 Diff-o-Jump type A 4P 63 A 300 mA 1 x 10 kA 3P+N 63 A car. C circuit breaker with Tele L module 1 x 10 kA 3P+N 32 A car. C circuit breaker with Tele L module 1 x 10 kA 2P 16 A car. C circuit breaker		
	25D60	AR891673	4TBA891673N2100

ARIA 75 - 🛛 IP44-IK10



ARIA 75

Combined site enclosure: one meter compartment and one distribution compartment, in compliance with electricity provider requirements.

- Lower wall: 1 x M32 and 1 x M16.
- The rear panel is equipped for wall mounting.
- Equipped with:
 - 1 x 25D60 connection module with ELOS 4P 125 $A^{\scriptscriptstyle (1)}\!.$
 - 1 Diff-o-Jump differential switch, 4P 300 mA, type A.
 - circuit breakers for circuits.
 - 3x230 V to 3x400 V+N inverter for 2-pole 2P.
 - a ground isolation bar.
- power outlets according to applications.
- Dimensions: 700x500x270mm
- Important: frames must always be ordered separately.

(1) For the meter module: please contact the electricity provider

Site enclosures

	Equipment	Туре	Order code
32 A type	25S60 1 x 32 A 5P 6h 400 V EEC power outlet 1 x 16 A 5P 6h 400 V EEC power outlet 2 power outlets with ground braid and child safety function Inverter 3P+N 400V / 3x230 V	AR891663	4TBA891663N2100
	Protection: 1 Diff-o-Jump type A 4P 40 A 300 mA 1 x 3 kA 3P+N 32 A Car. C power outlet 1 x 3 kA 2P 16 A Car. C power outlet 1 x 3 kA 3P+N 16 A Car. C power outlet		
	25D60	AR891674	4TBA891674N2100
63 A type	25S60 1 x 63A 5P 6h 400 V EEC power outlet 1 x 32 A 5P 6h 400 V EEC power outlet 2 power outlets with ground braid and child safety function 3P+N 400 V/3 x 230 V inverter	AR891664	4TBA891664N2100
	Protection: 1 Diff-o-Jump type A 4P 63 A 300 mA 1 x 3kA 3P+N 63 A car. C circuit breaker 1 x 3kA 3P+N 32A car. C circuit breaker 1 x 3kA 2P 16 A car. C circuit breaker		
	25D60	AR891675	4TBA891675N2100

PolySafe - Multi-function polyester enclosures



PolySafe

Standard: EN/IEC 60529, EN/IEC 61439-2, EN/IEC 62208, EN/IEC 62262

Specifications

- 16 standard dimensions (from 500x500 mm to 1250x1000 mm) with a depth of 320 mm.
- Enclosures supplied assembled (empty or equipped).
- IP55 and IP65 high protection ratings in accordance with EN/IEC 60529 and IK10 (20J) in accordance with EN/IEC 62262.
- Protection rating for enclosure with inspection window: IP54-IK07.
- Material: polyester reinforced with glass fiber, halogen-free, hot press molded and selfextinguishing.
- Color: RAL 7035 gray, dyed in the mass.
- Designed for wall, floor or pedestal mounting.
- Option of stacking vertically or horizontally widthwise or depthwise.
- Total insulation 🗉.
- 5-point door closure mechanism.
- Optional version on a DIN base.
- Insulation voltage Ui = 1000 V ac and 1500 V dc
- Product is easy to recycle: no molded metal parts.

Conditions for use

Polyester boxes can withstand temperatures between -25°C et +70°C under continuous operation and peak temperatures of up to 130°C.





• Single-door enclosure: type 3, 3R, 3S, 4, 4X, 12, 12K and 13

Standards/Certification

- Double-door enclosure: type 3R
 Coupled enclosures:
- type 3, 3R, 3S, 4, 4X, 12, 12K and 13 Available upon request.
- LR Lloyd's Register of Shipping

PolySafe - Multi-function polyester enclosures







Applications

Commercial

Leisure (marketplaces, camps, leisure ports, attraction parks, etc.), gas stations, carwashes, laundromats, industrial laundries, construction site enclosures, etc.

Industrial

Ship building, mining, automobile industry, paper industry, sugar refinery, food industry, distilleries, petrochemical industry, heavy industry, processing, surveillance systems, etc.

Utilities

Water treatment sites, gray water processing. telecommunications, traffic signaling, traffic management, public transport, energy distribution (electricity, gas, water), cable television, public lighting, railways, etc.



PolySafe - Universal polyester enclosures

Depth = 320 mm		PS 220
Factory-assembled enclosures Equipped with AISI 304 stainless steel fixing lugs and handle (lock not supplied)		
Dimensions (HxL)		500 x 500
Enclosure with IP55 solid door	Туре	PS833194
		4TBP833194N0100
Enclosure with IP65 solid door	Туре	PS220P63
		4TBP833000C0100
Enclosure with IP54 inspection window (polycarbonate inspection window)	Туре	PS220T43
	Order code	4TBP833850C0100
Weight (kg)		16
Enclosure with IP65 doors at the front and rear	Туре	PS220B63
	Order code	4TBP833076C0100
IP65 depth extension kit	T	56330563
For increasing the standard depth of the enclosure from 320mm to 640mm. The kit	Type Order code	PS220D63
comprises 2 side panels, 1 upper panel, 1 lower panel, 2 rear open panels (frames).	Order coae	4TBP833584C0100
Hoods	Туре	PS200R03
Necessary if efficient (IP44) ventilation is required, includes drilled holes in the upper panel and the use of fins.		4TBP833566C0100
	Uluer coac	410000000000
The basic enclosure is IP65 rated, the hood is optional. If larger widths or depths are required, please contact us.		
Base for ground installation	Туре	PS200Z03
The enclosure and base are anchored together into the ground. H = 65 mm	Order code	4TBP833574C0100
Adaptor frame for DIN-base mounting	Туре	-
The enclosure and adaptation kit are anchored together onto the DIN socket (polyester)	Order code	
DIN base	Туре	EH3SEXEI
Polyester - RAL 7035	Order code	4TBE843204R0100
Specific concrete base	Туре	PS833670
Enclosure may be mounted directly onto the base	Order code	4TBP833670C0100
Mounting plates		
Dimensions (H - 110mm x L - 110mm)		
2 mm Sendzimir galvanized sheet metal	Туре	PS220M03
	Order code	4TBP833500C0100
2 mm perforated metal	Туре	PS220Q03
	Order code	4TBP833516C0100
Pertinax 5 mm	Туре	PS220103
		4TBP833508C0100
Pertinax 10mm	Туре	-
	Order code	
Alu mounting frame Includes: 4 mounting brackets and 2 vertical C profiles (horizontal profiles to be ordered		
separately)		
Progressive adjustment	Туре	PS833533
	Order code	4TBP833533C0100
Adjustable in 12.5mm increments	Туре	PS833529
		PS833529 4TBP833529C0100



22



111

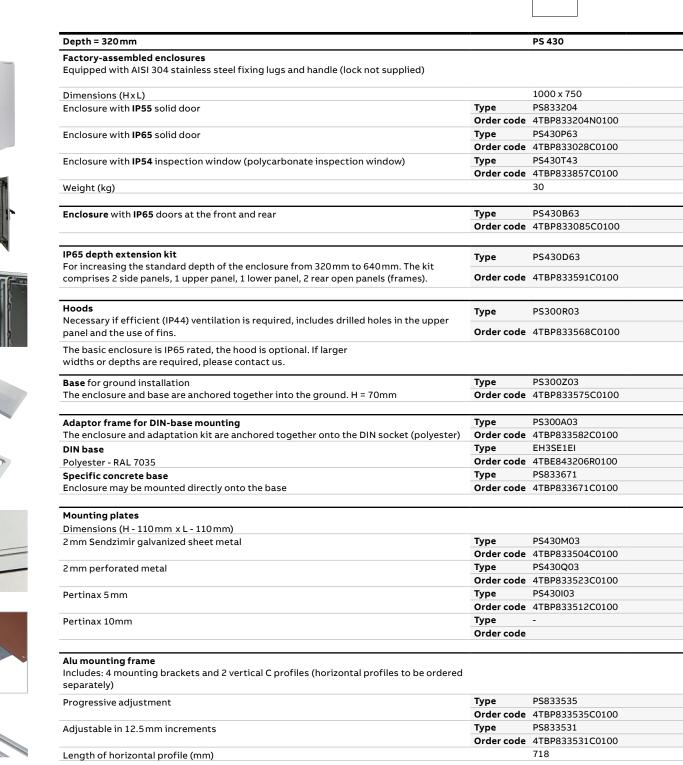
PolySafe - Universal polyester enclosures

I	I	I	I			1
PS 230	PS 240	PS 320	PS 330	PS 340	PS 352	PS 420
500 x 750	500 x 1000	750 x 500	750 x 750	750 x 1000	750 x 1250	1000 x 500
PS833195	-	PS833196	PS833197	PS833198	PS833235 (*)	PS833199
4TBP833195N0100		4TBP833196N0100	4TBP833197N0100	4TBP833198N0100	4TBP833235N0100	4TBP833199N0100
PS230P63	PS240P63	PS320P63	PS330P63	PS340P63	PS352P63	PS420P63
4TBP833004C0100	4TBP833193C0100	4TBP833008C0100	4TBP833012C0100	4TBP833016C0100	4TBP833020C0100	4TBP833024C0100
PS230T43	-	PS320T43	PS330T43	PS340T43	PS352T43	PS420T43
4TBP833851C0100		4TBP833852C0100	4TBP833853C0100	4TBP833854C0100	4TBP833855C0100	4TBP833856C0100
19	25	20	25	30	38	25
PS230B63	-	PS320B63	PS330B63	PS340B63	PS352B63 (*)	PS420B63
4TBP833086C0100		4TBP833219C0100	4TBP833373C0100	4TBP833077C0100	4TBP833374C0100	4TBP833375C0100
PS230D63	-	PS320D63	PS330D63	PS340D63	PS350D63	PS420D63
4TBP833585C0100		4TBP833586C0100	4TBP833587C0100	4TBP833588C0100	4TBP833589C0100	4TBP833590C0100
PS300R03	PS400R03	PS200R03	PS300R03	PS400R03	PS500R03	PS200R03
4TBP833568C0100	4TBP833570C0100	4TBP833566C0100	4TBP833568C0100	4TBP833570C0100	4TBP833572C0100	4TBP833566C0100
410103330000100	410103331000100	410103330000100	410103330000100	410103331000100	410103331200100	410103330000100
PS300Z03	PS400Z03	PS200Z03	PS300Z03	PS400Z03	PS500Z03	PS200Z03
4TBP833575C0100	4TBP833576C0100	4TBP833574C0100	4TBP833575C0100	4TBP833576C0100	4TBP833577C0100	4TBP833574C0100
PS300A03	PS400A03	-	PS300A03	PS400A03	-	-
4TBP833582C0100	4TBP833583C0100		4TBP833582C0100	4TBP833583C0100		
EH3SE1EI	EH3SE2EI	EH3SEXEI	EH3SE1EI	EH3SE2EI	-	EH3SEXEI
4TBE843206R0100	4TBE843207R0100	4TBE843204R0100	4TBE843206R0100	4TBE843207R0100		4TBE843204R0100
PS833671	PS833672	PS833670	PS833671	PS833672	PS833673	PS833670
4TBP833671C0100	4TBP833672C0100	4TBP833670C0100	4TBP833671C0100	4TBP833672C0100	4TBP833673C0100	4TBP833670C0100

PS320M03	PS420M03	PS320M03	PS330M03	PS430M03	PS530M03	PS420M03
4TBP833501C0100	4TBP833503C0100	4TBP833501C0100	4TBP833502C0100	4TBP833504C0100	4TBP833506C0100	4TBP833503C0100
PS230Q03	PS420Q03	PS320Q03	PS330Q03	PS340Q03	PS350Q03	PS420Q03
4TBP833517C0100	4TBP833522C0100	4TBP833518C0100	4TBP833519C0100	4TBP833520C0100	4TBP833521C0100	4TBP833522C0100
PS320103	PS420103	PS320103	PS330103	PS430103	PS530103	PS420103
4TBP833509C0100	4TBP833511C0100	4TBP833509C0100	4TBP833510C0100	4TBP833512C0100	4TBP833514C0100	4TBP833511C0100
-	-	-	-	-	PS833385	-
					4TBP833385N0100	

PS833533	PS833533	PS833534	PS833534	PS833534	PS833534	PS833535
4TBP833533C0100	4TBP833533C0100	4TBP833534C0100	4TBP833534C0100	4TBP833534C0100	4TBP833534C0100	4TBP833535C0100
PS833529	PS833529	PS833530	PS833530	PS833530	PS833530	PS833531
4TBP833529C0100	4TBP833529C0100	4TBP833530C0100	4TBP833530C0100	4TBP833530C0100	4TBP833530C0100	4TBP833531C0100
718	968	468	718	968	1218	468

PolySafe - Universal polyester enclosures



22

PolySafe - Universal polyester enclosures

		11	1	1		
PS 440	PS 442	PS 452	PS 530	PS 540 ⁽¹⁾	PS 542	PS 546

1000 x 1000	1000 x 1000	1000 x 1250	1250 x 750	1250 x 1000	1250 x 1000	1250 x 1000
PS833212	PS442P53 (*)	PS452P53 (*)	PS833233	PS833889	PS542P53 (*)	-
4TBP833212N0100	4TBP833241C0100	4TBP833242C0100	4TBP833233N0100	4TBP833889C0100	4TBP833243C0100	
PS440P63	PS442P63	PS452P63	PS530P63	-	PS542P63	PS833056
4TBP833032C0100	4TBP833036C0100	4TBP833040C0100	4TBP833044C0100		4TBP833052C0100	4TBP833056C0100
-	PS442T43	PS452T43	PS530T43	-	PS542T43	-
	4TBP833858C0100	4TBP833859C0100	4TBP833860C0100		4TBP833861C0100	
36	39	41	37	42	45	45
PS440B63	PS442B63	PS452B63	PS530B63	-	PS542B63	PS546B63
4TBP833376C0100	4TBP833376C0100	4TBP833378C0100	4TBP833379C0100		4TBP833380C0100	4TBP833381C0100
PS440D63	PS440D63	PS833593	PS530D63	-	PS540D63	PS540D63
4TBP833592C0100	4TBP833592C0100	4TBP833593C0100	4TBP833594C0100		4TBP833595C0100	4TBP833595C0100
PS400R03	PS400R03	PS500R03	PS300R03	PS400R03	PS400R03	PS400R03
4TBP833570C0100	4TBP833570C0100	4TBP833572C0100	4TBP833568C0100	4TBP833570C0100	4TBP833570C0100	4TBP833570C0100

PS400Z03	PS400Z03	PS500Z03	PS300Z03	PS400Z03	PS400Z03	PS400Z03
4TBP833576C0100	4TBP833576C0100	4TBP833577C0100	4TBP833575C0100	4TBP833576C0100	4TBP833576C0100	4TBP833576C0100
PS400A03	PS400A03	-	PS300A03	PS400A03	PS400A03	PS400A03
4TBP833583C0100	4TBP833583C0100		4TBP833582C0100	4TBP833583C0100	4TBP833583C0100	4TBP833583C0100
EH3SE2EI	EH3SE2EI	-	EH3SE1EI	EH3SE2EI	EH3SE2EI	EH3SE2EI
4TBE843207R0100	4TBE843207R0100		4TBE843206R0100	4TBE843207R0100	4TBE843207R0100	4TBE843207R0100
PS833672	PS833672	PS833673	PS833671	PS833672	PS833672	PS833672
4TBP833672C0100	4TBP833672C0100	4TBP833673C0100	4TBP833671C0100	4TBP833672C0100	4TBP833672C0100	4TBP833672C0100

PS440M03	PS440M03	PS540M03	PS530M03	PS540M03	PS540M03	PS540M03
4TBP833505C0100	4TBP833505C0100	4TBP833507C0100	4TBP833506C0100	4TBP833507C0100	4TBP833507C0100	4TBP833507C0100
PS440Q03	PS440Q03	PS450Q03	PS530Q03	PS540Q03	PS540Q03	PS540Q03
4TBP833524C0100	4TBP833524C0100	4TBP833525C0100	4TBP833526C0100	4TBP833527C0100	4TBP833527C0100	4TBP833527C0100
PS440103	PS440I03	PS540103	PS530103	PS540103	PS540103	PS540103
4TBP833513C0100	4TBP833513C0100	4TBP833515C0100	4TBP833514C0100	4TBP833515C0100	4TBP833515C0100	4TBP833515C0100
BERRAR	BERRAR	DC022207	DC00000F	DC022207	DC022207	DC022207
PS833386	PS833386	PS833387	PS833385	PS833387	PS833387	PS833387
4TBP833386C0100	4TBP833386	4TBP833387	4TBP833385	4TBP833387	4TBP833387	4TBP833387

PS833535	PS833535	PS833535	PS833536	PS833536	PS833536	PS833536
4TBP833535C0100	4TBP833535C0100	4TBP833535C0100	4TBP833536C0100	4TBP833536C0100	4TBP833536C0100	4TBP833536C0100
PS833531	PS833531	PS833531	PS833532	PS833532	PS833532	PS833532
4TBP833531C0100	4TBP833531C0100	4TBP833531C0100	4TBP833532C0100	4TBP833532C0100	4TBP833532C0100	4TBP833532C0100
968	968	1218	718	968	968	968

PolySafe - Modular framework for DIN-rail equipment - IP20

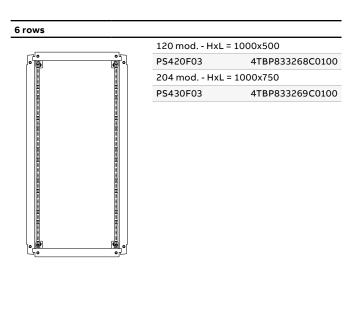


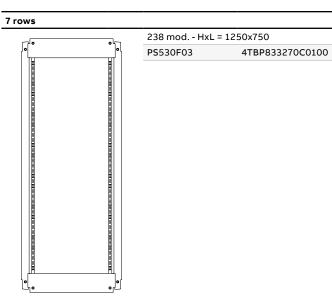


Supplied as a self-assembly kit

- Kit contains:
- 2 x support for left-hand vertical profile
- 2 x support for right-hand vertical profile
- 2 x vertical profiles
- 2 x IP20 insulated vertical profiles
- 2 x IP20 insulated horizontal profiles
- assembly accessories

Product	Туре	Order code	Product		Туре	Order code
2 rows			4 rows			
	40 mod Hx	L = 500x500			80 mod HxL =	750x500
	• PS220F03	4TBP833264C0100	•["•)°]	PS320F03	4TBP833266C0100
8	68 mod H x	L = 500 x 750		Ī	136 mod HxL	= 750 x 750
	PS230F03	4TBP833265C0100			PS330F03	4TBP833267C0100
	3 2 8					
	9 9 2			*		
				Ī		
Lho				i		





22

PolySafe - Modular functions and accessories

Modular functions for D	IN equipment (to be mounted on th	e modular frame)	
· · · · · · · · · · · · · · · · · · ·		Contents: - DIN rail - cover plate with rectangul - mounting accessories	ar opening
Center line distance 150mn	1		
Height	Width	500mm	750mm
150mm		•	
	Modules (1 mod. = 18 mm)	20	34
	Туре	PS833272	PS833278
	Order code	4TBP833272C0100	4TBP833278C0100

Modular functions for terminals or other equipment (to be mounted on the modular frame)

		Contents: - DIN rail - solid cover plate - mounting accessories	
Center line distance 150mm			
Height	Width	500mm	750mm
150mm			•,
	Туре	PS833271	PS833277
	Order code	4TBP833271C0100	4TBP833277C0100
300mm		[]	•
	Туре	PS833274	PS833280
	Order code	4TBP833274C0100	4TBP833280C0100

Accessories (to be mounted on the modular frame)

Product	Туре	Order code	Pack		
Metal mounting plates					
	HxL = 150x50	00mm			
	PS833275	4TBP833275C0100	1		
	HxL = 150x750mm				
	PS833281	4TBP833281C0100	1		
	HxL = 300x50	00mm			
	PS833276	4TBP833276C0100	1		
	HxL=300x7	50 mm			
	PS833282	4TBP833282C0100	1		

Accessories (to be mounted on the modular frame)

Product	Туре	Order code	Pack
Depth extension studs for me screws - (1 set = 2 pieces)	etal mounting	plates with n. 2 M5×1	0
	Length 20-35	-50mm	
	VMW2050	4TBW828059C0100) 1
	Length 25-40)-55 mm	
	VMW2555	4TBW828060C0100) 1
- E - 4	Length 30-45	5-60mm	
	VMW3060	4TBW828061C0100) 1
	Length 65-80)-95mm	
	VMW6595	4TBW828062C0100) 1
	Length 70-85	5-100 mm	
	VMW70100	4TBW828063C0100) 1
	Length 75-90)-105mm	
	VMW75105	4TBW828064C0100) 1
	Length 110-1	25-140 mm	
	VMW110	4TBW828031C0100) 1

PolySafe - Accessories

Product	Туре	Order code	Pack P	roduct	Туре	Order code	Pack
Profile half cylinder lock			D	oor stop/Canopy st			
Standard: D = 40mm - L =	= 30.5 mm		0	pening angle of 100°	° of the door or canopy	(for >750-wide enc	losures)
	With 2 key	s V2432-E			Left turning		
D	PS832030	4TBP832030C0100	1	- In-	PS833649	4TBP833649C01	100 1
	Replaceme	ent keys for PS832030			Right turning	g	
	PS832741	4TBP832741R0100	2		PS833650	4TBP833650C01	100 1
	With 2 key	s 1242-E					
	(T) PS832031	4TBP832031C0100	1				
AL	U With 2 keys	s 455-E					
v	PS832465	4TBP832465C0100	1				
	U With 2 keys	s 405-E					
	(۲) PS832466	4TBP832466R0100	1				
	U With 1 squ	are key, 8mm					
	O PS832032	4TBP832032C0100	1	P			
	With an 8n	nm triangular key		-			
-	O PS832033	4TBP832033C0100	1				
	With an 11	mm triangular key		4-11			
	PS832034	4TBP832034C0100	1 _	Vall mounting suppo	orts for standard cabir		
	With 1 dou	ble-bit key, 3 mm		m 1/17		ng 4 fixing lugs tha rear of the enclosu	
	PS832029	4TBP832029C0100	1	SV -m		grade stainless ste	
				2	(replacemen	t)	
				Part Se	PS833651	4TBP833651C01	100 1
Handle							
	For lock wi	th half cylinder profile (as	5				
	replaceme	nt)	N	Vall fixing lugs for e	nclosures equipped wi	ith a hood.	
	PS833629	4TBP833629C0100	1			ng 4 fixing lugs tha	
					clip into the	rear of the enclosu	re.
				H	PS833624	4TBP833624C01	100 1
Handle					P3633024	416265302400	100 1
Tianule							
	For lock wi	th 45 mm half cylinder pro	ofile				
	PS833290	4TBP833290C0100	1 R	ainhood			
					Rainhoods fo		
						ns. Standard rainho sure selection table	
					in the enclos	sule selection table	.5.
Padlocking handle							
8	For padloc	k (Ø10mm max.)		1111			
	PS833630	4TBP833630R0100	1	1111			
			F	or enclosures dimer	nsions (WxD)		
			1	500 x 320 mm	PS833656	4TBP833656C01	100 1
			1	750x320mm	PS833657	4TBP833657C01	100 1
Depth adjustment kit			2	000x320mm	PS833658	4TBP833658C01	100 1
	Set of 4 br	ackets for adjusting the d		250x320mm	PS833659	4TBP833659C01	
		inting plates		500x320mm	PS833660	4TBP833660C0	
	(12.5 mm i	ncrements)		000x320mm	PS833661	4TBP833661C01	
	PS833528	4TBP833528C0100	1 -	00x640mm	PS833693	4TBP833693C01	
				50x640mm	PS833692	4TBP833692C01	
-				000x640mm	PS833783	4TBP833783C01	
				250x640mm	PS833784	4TBP833784C01	
				750x640mm	PS833743	4TBP833743C01	
				000x640mm	PS833691	4TBP833691C01	
			-		- 5055051	101033031001	

2500x640mm

PS833764

4TBP833764C0100 1

PolySafe - Accessories

Product	Туре	Order code	Pack
Pole mounting			
	Width = 50	0mm	
	PS833625	4TBP833625C0100	1
	Width = 75	0 m m	
	PS833626	4TBP833626C0100	1
	Metal sheet ing to the pe Securing cla	affixed to the lugs. is used for secur- idestal. mps are attached to the pro at the metal sheet is held fas	

Product	Туре	Order code	Pac
IP20 inner door			
HxW			
	500 x 500 mn	n	
	PS833556	4TBP833556C0100	1
	500x750mm	า	
	PS833557	4TBP833557C0100	2
	750x500mm	า	
	PS833558	4TBP833558C0100	1
- the	750x750mm	ו	
and the second se	500x750mm PS833557 4TBP833557C0100 750x500mm	1	
	1000x500m	m	
	P\$833561	4TBP833561C0100	1
	1000x750m	m	
	P\$833562	4TBP833562C0100	1

IP65/IP54 coupling kit							
H/B	G J Depth 320mm						
500	330	6	PS833608	4TBP833608R0100	1		
750	580	8	PS833610	4TBP833610R0100	1		
1000	830	12	PS833612	4TBP833612R0100	1		
1250	1080	14	PS833614	4TBP833614R0100	1		
			The kit contair	ns the neoprene seal,			



securing s			ofiles.	,
			320 =	1
	85	Å	Å	
		C	c .	Ø9 (x4)
=H/B=	= 5 = -			
Ш				

Ø9 (xJ)

Solid front plates for 19"/ETSI frame

For filling remaining em	pty spaces			
	For cabinets H x W = 500x750 Front plate height = 32mm			
	PS833684 4TBP833684C0100 1			
	For cabinets H x W = 750x750 Front plate height = 15mm			
	PS833685 4TBP833685C0100 1			
	For cabinets H x W = 1250 x 750 Front plate height = 28mm			
	PS833686 4TBP833686C0100 1			
	Metal: RAL 7035 epoxy coating Note: not required for H x W = 1000 x 750 cabinets			



To fill up the corner between two coupled enclosures



Length = 308mm

PolySafe - Accessories

Product	Туре	Order code	Pack	Product	Туре	Order code	Pack
Ventilation grille 🛛				Metal frame			
	PS832019	4TBP832019C0100	1	For PS220 and PS320,	, for temporary conne	ection enclosures.	
	Adaptable to the ventilation opening. Kit comprises 2 grilles and 4 nylon screws.			AR891854	4TBA891854C0100	0 1	
Air vents IP44				Document pocket			
		yamide pieces			DIN A4 - Bx	L = 325 x 180 mm	
· · · · · · · · · · · · · · · · · · ·	RAL 7035			\bigwedge	AR811516	4TBC811516C0100) 1
A D A	PS833677	4TBP833677C0100			DIN A5 - Bx	L= 155 x 225 mm	
	order to prov prevent the fo Supplied with recommende	e provided per enclosure in ide efficient ventilation ar ormation of condensation o a template and fixings. It d to install the fins in the u sections of the enclosure	nd to is up-		P5832000	4TBP832000C010	0 1
Screws							
	Mounting p and bolts).	late installation kit (8 r	nuts				
Contraction of the second second	PS833790	4TBP833790C0100	1 set				
		8 x 19 assembly screws the mounting plate an					

N

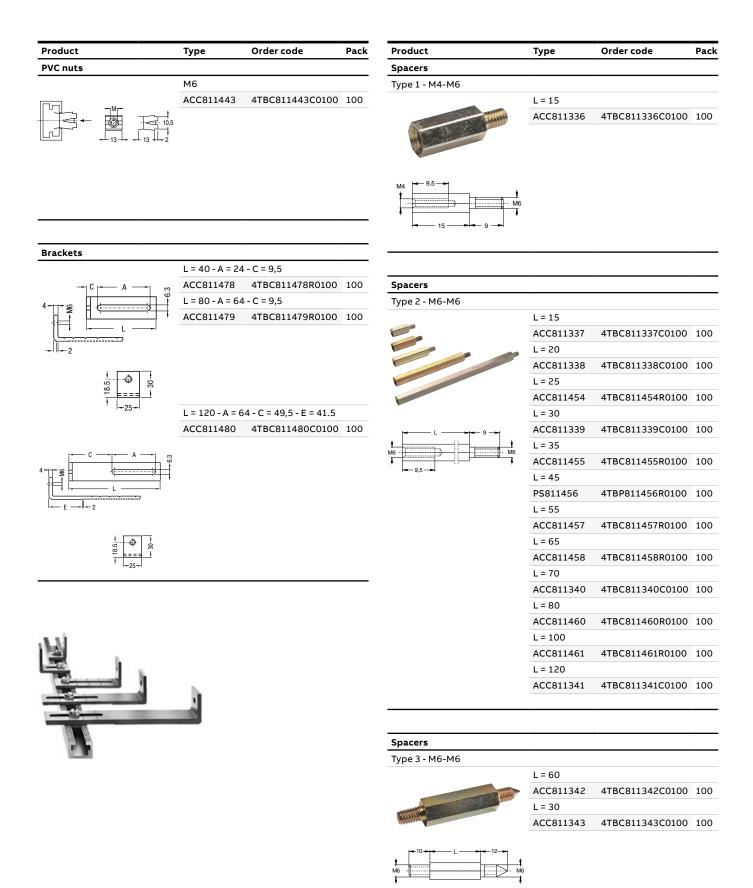
assembling the mounting plate and side panel with the lower panel/hood. PS833687 4TBP833687C0100 100 7.2 x 22 securing screw for rear panel

PS833688 4TBP833688C0100 100

PolySafe - Alu frame mounting accessories

Product	Туре О	rder code	Pack	Product	Туре	Order code	Pac
Alu profiles (mm)				Support for slide nut			
	Enclosure width	500 - Profile len	gth 468		PS833528	4TBP833528C0100	100
 19.5 	PS833537 4	TBP833537C010	00 1	6.5			
	Enclosure width	750 - Profile len	gth 718	- - - - - - - - - - - - - - - - - - -			
	PS833538 4	TBP833538C010	00 1				
	Enclosure width						
		TBP833539C010	-				
- 25	Enclosure width						
		TBP833540C010	-	Nut made from insulating	material		
		121 0000 10 001		Hex.	RAL 7035		_
					KIM601225	2CDB601225R0000	100
				13	10		
Alu profiles (mm)					<u> </u>		
	Enclosure width	500 - Profile len	gth 468	-+M6+ 			
→ 35 →	PS833545 4	TBP833545C010	00 1				
	Enclosure width	750 - Profile len	gth 718				
	PS833546 4	TBP833546C010	00 1	<u> </u>			
	Enclosure width	1000 - Profile le	ngth 968	Screws			
19.5	PS833547 4	TBP833547C010	00 1		M6 flange scr		
24.5	Enclosure width	1250 - Profile len	gth 1218	- 3W10 -	ACC811483	4TBC811483C0100	100
	PS833548 4	TBP833548C010	00 1	╘╧╧╧╧╛╌╻ ┣┊┨╶╿			
				12			
				M6			
				← Ø10 / 	M6x12 screw		_
Alu profiles (mm)					PS833655	4TBP833655C0100	100
	Enclosure width	500 - Profile len	gth 468	12			
→ 35 →	PS833541 4	TBP833541C010	00 1				
10.5	Enclosure width	750 - Profile len	gth 718				
	PS833542 4	TBP833542C010	00 1	01 ⁻¹ Ø14	PVC M6 screw	v for cover plate (seala	ahle)
	Enclosure width	1000 - Profile le	ngth 968				
	PS833543 4	TBP833543C010	00 1		ACC811451	4TBC811451R0100	100
	Enclosure width	1250 - Profile Ien	gth 1218				
20	PS833544 4	TBP833544C010	00 1				
Alu profiles (mm)				Metal nut			
105	Profile length 30	000			M6		
	ACC811417 4	TBC811417C010	00 1		ACC811435	4TBC811435C0100	100
					M4		
- 25 -					ACC811438	4TBC811438C0100	100
					M6		
					ACC811442	4TBC811442C0100	100
Mounting brackets	ACC011462	TRC011462602	0. 100				
	ACC811463 4	TBC811463C030	00 100				
					M6		_
				Ţ ♥ Ħ─₩	ACC811446	4TBC811446C0100	100
6.5 06.5							
					M8		

PolySafe - Alu frame mounting accessories



Notes

Accessories - Heater units

Function

Small heaters for electrical enclosures are important accessories for ensuring the operational safety of control and distribution assemblies.

They are essentially used to prevent the formation of condensation or to ensure that a minimum temperature is maintained inside the electrical enclosures, i.e. at a few degrees above ambient temperature.

Operating principle

The small heaters are equipped with PTC heating resistors (semiconductors with a positive temperature coefficient). The self-regulating and self-limiting semiconductor heating elements maintain a constant temperature over the heating surface of the small heaters. The aluminum body transfers heat to the surrounding air through natural radiation. Special extruded profiles guarantee perfect heat radiation.

Calculation model for determining the power requirement

According to the formula: $P = A x \Delta T x k$

- P = power to be supplied via the resistor (W)
- A = exterior free surface of the enclosure (m²)
- ΔT = temperature difference between the interior temperature after heating and the exterior temperature in °K.
- k = thermal radiation coefficient: steel: 5.5 W/m²K polyester: 3.5 W/m²K

Rule of thumb: recommended value 100 W/m³ of enclosure volume. The calorific value must be doubled for an exterior installation. Multiple small heaters are preferable to a single heater unit.

Advantages

- Energy efficiency
- Dynamic heating
- Self-regulating
- Self-limiting
- Quick clip-in fitting
- Zero maintenance
- Long service life
- Compact unit

Standards

EN 60335-1 / EN 62233 UL EAC

Applications

Electrical enclosures, instrumentation units, display panels, control cabinets, ATM machines, access control system for parking lots, etc.

Installation

Quick installation on 35mm DIN rail (EN 50 022). Recommended installation in the lower section of the enclosure, at least 40mm from the equipment itself.







Accessories - Heater units



CSK 060



CS 060



CSF 060

CSK 060

Small heating resistor for compact boxes and enclosures, to prevent the formation of condensation or temperatures below a minimum threshold. The resistors have been designed for permanent use.

CS 060 / CSF 060

Compact heating resistor to regulate the temperature of cabinets and enclosures containing electrical and electronic components. Due to its construction, it produces optimized natural convection, which generates an effective flow of hot air. The plastic casing has been designed so that the surface temperature remains low. The heating resistor is equipped by default with a fixed-range thermostat. The thermostat connects directly to the heating resistor and requires no additional wiring. The resistors have been designed for permanent use. The resistor is also available as a version without a thermostat (CS 060 series).

Technical specifications

Nominal voltage	120-240 V ⁽¹⁾ AC/DC (min. 110 V, max. 265 V)
Heating element	PTC resistor, self-regulating
Surface temperature	< +85°C (+185°F) (in accordance with VDE 0100), except for the protective grille
Connection	2.5 mm² 2-pole terminal, max. tightening torque 0.8 Nm
Box	plastic material in accordance with UL94 V-0, black
Attachment	clip for 35mm DIN rail, EN 60715
Installation	vertical air flow (blowing upwards/connection below)
Operating/storage temperature	-45 to +70°C (-49 to +158°F)
Operating/storage humidity	max. 90% RH (condensation-free)
Protection rating	IP20/class II (double insulation)
Certification	VDE, UL, EAC
Note:	other voltage options upon request

(1) For power supplies below 140 V AC/DC, heat production is reduced by 10%.

Ordering information CSK 060, CS 060

	W ⁽¹⁾	l max. (A)	HxWxD (mm)	Weight (kg)	Туре	Order code	Pack
CSK 060	10	0.8	98 x 38 x 75	0.2	ACC818225	4TBJ818225C0100	1
	20	2.5	98 x 38 x 75	0.3	ACC818226	4TBJ818226C0100	1
CS 060	50	2.5	110 x 60 x 90	0.3	ACC818227	4TBJ818227C0100	1
	100	4.5	110 x 60 x 90	0.5	ACC818228	4TBJ818228C0100	1
	150	8	150 x 60 x 90	0.5	ACC818229	4TBJ818229C0100	1

(1) Bij omgevingstemperatuur van 20°C

Ordering information CSF 060

W ⁽¹⁾	l max. (A)	HxWxD (mm)	Cut-out temperature ⁽²⁾	Start-up temperature ⁽²⁾	Weight (kg)	Туре	Order code	Pack
50	2.5	110 x 60 x 90	+15°C	+5°C	0.3	ACC818230	4TBJ818230C0100	1
50	2.5	110 x 60 x 90	+25°C	+15°C	0.3	ACC818231	4TBJ818231C0100	1
100	4.5	110 x 60 x 90	+15°C	+5°C	0.3	ACC818232	4TBJ818232C0100	1
100	4.5	110 x 60 x 90	+25°C	+15°C	0.3	ACC818233	4TBJ818233C0100	1
150	8	150 x 60 x 90	+15°C	+5°C	0.5	ACC818234	4TBJ818234C0100	1
150	8	150 x 60 x 90	+25°C	+15°C	0.5	ACC818235	4TBJ818235C0100	1

(1) At an ambient temperature of 20°C (2) Tolerance of $\pm 5 \text{ K}$

Accessories - Heaters



CS 028 / CSL 028

Heating resistor for maintaining a constant temperature inside the enclosures. Prevents malfunctions due to the formation of condensation or ice. Connection via an internal terminal. Thanks to their reduced dimensions, the CS 028 and CSL 028 heating resistors are ideal for installation in enclosures and cabinets with restricted space.

Technical specifications

Heating element	PTC resistor, self-regulating
Surface temperature	150 W/250 W: max. +50°C (+122°F), 400 W: max. 65°C (149°F), with the exception of the upper protective grille, for an ambient temperature of +20°C (+68°F)
Axial fan, with ball bearing roller bearing	air flow rate, unimpeded blowing, CS 028: 13.8 m³/h, CSL 028: 45 m³/h (230 V AC), 54 m³/h (120 V AC), life cycle 40,000 h at +40 °C (+104°F)
Connection	2.5 mm² 2-pole terminal (CSL 028 with cable gland), max. tightening torque 0.8 Nm
Box	plastic material in accordance with UL94 V-0, black
Attachment	clip for 35mm DIN rail, EN 60715 or screw attachment (Ø 5.3mm)
Installation	vertical air flow (blowing upwards)
Operating/storage temperature	-45 to +70°C (-49 to +158°F)
Operating/storage humidity	max. 90% RH (condensation-free)
Certification	IP20/class II (double insulation)
Directives	file no. UL E150057 (in accordance with UL 508A, NITW file upon request), EAC, 230 V only: VDE

Ordering information CSL 028

Туре	Nominal voltage	Heating power ⁽¹⁾	Max. start-up current	Fuse (slow- blow)	Dimensions (mm)	Weight (ca) (kg)	Туре	Order code	Pack
CS 028	230 V, 50 / 60 Hz	150 W	12.0 A	10.0	75 x 65 x 90	0.3	ACC818242	4TBJ818242C0100	1
CSL 028	230 V, 50 / 60 Hz	250 W	9.0A	10.0	90 x 85 x 111	0.5	ACC818243	4TBJ818243C0100	1
CSL 028	230 V, 50 / 60 Hz	400 W	15.0A	16.0	90 x 85 x 111	0.5	ACC818244	4TBJ818244C0100	1

(1) At an ambient temperature of 20°C

Accessories - Heaters



Compact blown-air heating resistor to maintain a constant temperature inside cabinets and enclosures containing electrical and electronic components. Prevents the formation of condensation or ice. Thanks to their reduced dimensions and anti-touch casing, this heating resistor is ideal for installation in enclosures and cabinets with restricted space. CSF 028 is equipped with a pre-set thermostat. Connection via external terminals. The resistor may be installed in two ways: by threaded bracket or by clip. Mounting by threaded bracket is highly robust and is particularly suitable for applications subjected to strong vibration.

Technical specifications

-	
Heating element	PTC resistor, self-regulating
Surface temperature	250 W: max. +50°C (+122°F), 400 W: max. +65°C (+149°F) m.u.v. bovenliggend roosteroppervlak bij +20°C (+68°F) omgevingstemperatuur
Temperature limiter	prevents any overheating in the event of fan failure, automatic reactivation
Axial fan, with ball bearing roller bearing	air flow rate, unimpeded blowing, CSF 028: 45 m³/h (230 V AC), 54 m³/h (120 V AC), life cycle 40,000 h at +40 °C (+104°F)
Connection	2.5 mm² double 2-pole spring terminal for solid cable or 1.5 mm² for multi-strand wire with terminal connectors
Box	plastic material in accordance with UL94 V-0, black
Attachment	clip for 35mm DIN rail, EN 60715 or screw attachment (Ø 5.5mm), max. tightening torque 2 Nm, washers recommended
Installation	vertical air flow (blowing upwards) and horizontal
Dimensions	model with clip/screw attachment: 105x85x118 mm
Weight	model with clip/screw attachment: 0.5kg
Operating/storage temperature	+40 to +70°C (-40 to +158°F) / -45 to +70°C (-49 to +158°F)
Operating/storage humidity	max. 90% RH (condensation-free)
Usage classification	IP20/class II (total insulation)
Certification	VDE, UL File No. E150057, EAC

Ordering information CSF 028

Туре	Nominal voltage	Heating power ⁽¹⁾	Max. start-up current	Fuse (slow- blow)	Cut-out temperature ⁽²⁾	Start-up temperature ⁽²⁾	Туре	Order code	Pack
CSF 028	AC 230 V, 50 / 60 Hz	250 W	9.0	10.0	+15°C (+59°F)	+5°C (+41°F)	ACC818247	4TBJ818247C0100	1
CSF 028	AC 230 V, 50 / 60 Hz	250 W	9.0	10.0	+25°C (+77°F)	+15°C (+59°F)	ACC818248	4TBJ818248C0100	1
CSF 028	AC 230 V, 50 / 60 Hz	400 W	15.0	16.0	+15°C (+59°F)	+5°C (+41°F)	ACC818245	4TBJ818245C0100	1
CSF 028	AC 230 V, 50 / 60 Hz	400 W	15.0	16.0	+25°C (+77°F)	+15°C (+59°F)	ACC818246	4TBJ818246C0100	1

(1) At an ambient temperature of +20°C (+68°F); ² tolerance ± 5 K

(2) Another start-up/cut-out temperature is available upon request.

Accessories - Heaters



HVI 030 without fan



HVI 030

Compact heating resistor to regulate the temperature of cabinets and enclosures containing electrical and electronic components. Prevents malfunctions due to the formation of condensation or ice. The heating resistor may only be used in combination with a fan, but it is also available without an axial fan (self-installation). Choice of screw-attachment model or new rotary clip secured model. The latter is simple and quick to fit.

Technical specifications

reennear opeen leations	
Nominal voltage	230 V AC, 50 / 60 Hz
Heating element	hoogwaardig verwarmingspatroon
Temperature limiter	prevents any overheating in the event of fan failure, automatic reactivation, additional protection via an irreversible fuse
Axial fan, with ball bearing roller bearing	air flow rate of 150 m³/h, unimpeded air flow life cycle 50,000 h at +25 °C (+77°F)
Connection	2.5 mm ² double 3-pole spring terminal for solid cable or 1.5 mm ² for multi-strand wire with terminal connectors
Box	plastic material in accordance with UL94 V-0, black
Attachment	rotary clip for 35 mm DIN rail, EN 60715
Installation	vertical air flow (blowing upwards)
Dimensions (HxWxD)	169 x 127 x 89mm
Weight	1.3kg approximately
Operating temperature	VDE: -10 to +50°C (+14 to +122°F) / UL: -10 to +40°C (+14 to +104°F)
Storage temperature	-45 to +70°C (-49 to +158°F)
Operating/storage humidity	max. 90% RH (condensation-free)
Protection rating	IP20/heating: class II (double insulation), fan: class I (grounded)
Certification	VDE, UL File No. E234324, EAC
Directives	other heating outputs and voltages available upon request

Important instruction: only use resistors with a fan (min. 150 m 3 /h). Risk of overheating!

Ordering information

	Heating power ⁽¹⁾	Туре	Order code	Pack
HVI 030	500	ACC818236	4TBJ818236C0100	1
	600	ACC818237	4TBJ818237C0100	1
	700	ACC818238	4TBJ818238C0100	1
HVI 030 without fan	500	ACC818239	4TBJ818239C0100	1
	600	ACC818240	4TBJ818240C0100	1
	700	ACC818241	4TBJ818241C0100	1

(1) At an ambient temperature of 20°C

Accessories - Heaters



350 W



475 / 550 W

Semi-conductor heating resistor to regulate the temperature inside electrical cabinets. Prevents malfunctions due to the formation of condensation or ice. The integral thermostat can be used to adjust the temperature.

Technical specifications

Nominal voltage	220-240 V AC, 50 / 60 Hz
Heating element	PTC resistor, self-regulating
Temperature limiter	prevents any overheating in the event of fan failure, automatic shut- down
Axial fan, with ball bearing roller bearing	air flow rate: see table, life cycle 50,000 h at +25 °C (+77°F)
Connection	2.5 mm² 2-pole terminal, max. tightening torque 0.8 Nm
Box	plastic material UL94 V-0, light gray
On/Off indicator	LED indicator
Attachment	clip voor 35mm rail DIN, EN 60715
Installation	vertical air flow (blowing upwards)
Dimensions (HxWxD)	100 x 128 x 165 mm
Operating/storage temperature	-45 to +70°C (-49 to +158°F)
Operating/storage humidity	max. 90% RH (condensation-free)
Protection rating	IP20/class II (total insulation)
Certification	VDE, UL File No. E204590, EAC
Directives	other heating outputs and voltages available upon request

Ordering information

Nominal voltage	Heating power ⁽¹⁾ (50 Hz)	Heating power ⁽¹⁾ (60 Hz)	Max. start-up current	Air flow rate, unimpeded blowing	Temperature regulator adjustment range ⁽²⁾	Weight (approx- imate)	Туре	Order code	Pack
220-240 V AC, 50 / 60Hz	350 W	550 W	8.5A	45 m³/h	0°C to +60°C	1.1	ACC818193	4TBJ818193R0100	1
220-240 V AC, 50 / 60Hz	475 W	550 W	11.0A	35 m³/h	0°C to +60°C	0.9	ACC818249	4TBJ818249C0100	1
220-240 V AC, 50 / 60Hz	550 W	650 W	13.0A	45 m³/h	0°C to +60°C	1.1	ACC818250	4TBJ818250C0100	1

(1) At an ambient temperature of 20°C

(2) 7 K start-up temperature hysteresis (tolerance of ±4 K)

Accessories - Heaters



CR 130

Powerful heating resistor to regulate the temperature of cabinets and enclosures containing electrical and electronic components. Prevents malfunctions due to the formation of condensation or ice. The plastic casing provides protection against burns when coming into contact with hot parts. The heating resistor is available with an integral temperature regulator or a fixed-range hygrostat.

Technical specifications

Heating element	PTC resistor, self-regulating
Temperature limiter	prevents any overheating in the event of fan failure, automatic shut- down
Axial fan, with ball bearing roller bearing	air flow rate of 160 m³/h, unimpeded air flow life cycle 50,000 h at 25 °C (77°F)
Connection	2.5 mm² max. 2-pole with securing bolt cable gland, max. tightening torque 0.8 NM
Box	plastic material in accordance with UL94 V-0, black
Attachment	clip attachment for 35 mm DIN rail, EN 60715 or screw attachment (M6)
Installation	vertical air flow (blowing upwards) + other
Dimensions	182 x 160 x 120 mm
Weight	1.3kg approximately
Operating/storage temperature	-45 to +70°C (-49 to +158°F)
Operating/storage humidity	max. 90% RH (condensation-free)
Protection rating	IP20/class II (total insulation)

Ordering information CS 130

Туре	Nominal voltage	Heating power ⁽¹⁾	Adjustment range ⁽²⁾	Fuse T (slow- blow)	Dimensions (mm)	Weight (approx- imate)	Туре	Order code	Pack
CR 130	AC 230 V, 50 / 60Hz	950W	0°C to +60°C	6.3A	99 x 160 x 182	1.5	ACC818251	4TBJ818251C0100	1
CR 130	AC 230 V, 50 / 60Hz	950W	65% RH, fixed range	6.3 A	99 x 160 x 182	1.5	ACC818252	4TBJ818252C0100	1
CS 130	AC 230 V, 50 / 60Hz	1200W	Resistor without thermostat	10.0A	120 x 160 x 182	1.3	ACC818253	4TBJ818253C0100	1

(1) At an ambient temperature of 20°C

(2) 7 K start-up temperature hysteresis (tolerance of ±4 K)

Accessories - Thermostat



кто



Connection diagram

ктѕ

кто

Function

KTO and KTS elements regulate and control the temperature inside the enclosure by controlling the small heaters, fans, heat exchangers and cooling units.

KTO 011

Thermostat (contact normally closed) for heating resistor regulation. The contact is opened when the temperature increases.

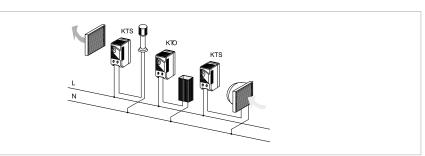
KTS 011

Thermostat (contact normally open) for regulating filter fans, heat exchangers and air conditioning units or for triggering signals when the temperature threshold is exceeded. The contact is closed when the temperature increases.

Technical specifications

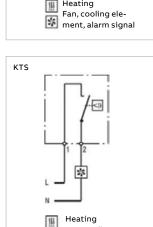
Туре	кто	KTS
Adjustment range:	+10 - +50°C or 0 - +60°C	+10 - +50°C or 0 - +60°C
hysteresis temperature	7 K (±4 K tolerance)	7 K (±4 K tolerance)
Contact type	NC	NO
Power	250 V AC, 10 (2) A	250 V AC, 10 (2) A
	120 V AC, 15 (2) A	120 V AC, 15 (2)
	30 W DC on 24 V DC to 72 V DC	30 W DC on 24 V DC to 72 V DC
Max. start-up current	16 A AC for 10 s	16 A AC for 10 s
Weight	36 g	36g
Dimensions (HxWxD) mm	60 x 33 x 43 mm	60 x 33 x 43 mm
Wiring diagram	red button: heating	blue button: cooling,
		ventilation, alarm signal
Protection rating	IP20	IP20
Connection	2-pole terminal, max. tightening t (AWG 16), 1.5 mm² flexible cable (orque 0.5 Nm: 2.5 mm² solid cable: AWG 14)
Installation	clip for 35mm DIN rail, EN 60715	
Box	plastic material UL94 V-0, light gr	ay
Anti-interference	N in accordance with VDE 0875	

Values between parentheses: inductive load $\cos \phi$ = 0.80



Ordering information

	Temperature	Туре	Order code	Pack
кто	-10° to +50°C	ACC818265	4TBJ818265C0100	1
кто	0° to +60°C	ACC818080	4TBJ818080R0100	1
ктѕ	-10° to +50°C	ACC818266	4TBJ818266C0100	1
ктѕ	0° to +60°C	ACC818081	4TBJ818081R0100	1



Heating

Fan, cooling element, alarm signal *

Accessories - Thermostat



FZK 011

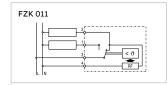


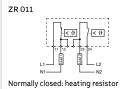
ZR 011



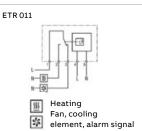
ETR 011

Connection diagram





Normally open: air conditioning unit, filter fan or heat exchanger



Function

FZK 011, ZR 011 and ETR 011 elements regulate and control the temperature inside the enclosure by controlling the small heaters, fans, heat exchangers and cooling units.

FZK 011

Mechanical thermostat used for controlling heating resistors, air conditioning units, filter fans or signaling. It obtains ambient temperature readings and can switch resistive and inductive loads thanks to its snap switching.

ZR 011

Two thermostats in one unit:

- thermostat (contact normally closed) for heating resistor regulation.;
- thermostat (contact normally open) for regulating filter fans, heat exchangers and air conditioning units or for triggering signals when the temperature threshold is exceeded.

Unlike a thermostat with inverter switch, the dual thermostat allows the heating resistor and air conditioning unit to be connected independently at different temperature ranges.

ETR 011

The mechanical thermostat is used for controlling heating resistors, air conditioning units, filter fans or signaling. The thermostat obtains ambient temperature readings and can switch resistive and inductive loads thanks to its inverter switch (relay). The LED integral to the adjustment button lights up when the contact is closed (when the heating resistor is in operation, for example).

Technical specifications

Туре	FZK 011	ZR 011	ETR 011
Adjustment range: hysteresis temperature	+5 to +60°C or -20 - +35°C 0.5 K	0 to 60°C 7 K	+20°C 4 K (±1 K tolerance)
Contact type	switching contact: single- pole	NC	NO
Power	NC 10 A (4) 250 V AC NO 5 A (2) 250 V AC Resistive load	10 A (2) 250 V AC Resistive load	AC 240 V, 8 (1.6) A AC 120 V, 8 (1.6) DC 100 W to DC 24 V
Max. start-up current	-	-	16 A AC for 10 s
Weight	100 g	90 g	70 g
Dimensions (HxWxD) mm	67 x 50 x 38	60 x 50 x 46	64.5 x 42 x 38
Wiring diagram	(see left)	(see left)	/
Protection rating	IP20	IP20	IP20
Connection	2-pole terminal, max. tight mm² flexible cable (AWG 1		2.5 mm² solid cable (AWG 14) 1.5
Installation	clip for 35mm DIN rail, EN	60715	
Box	plastic material UL94 V-0,	light gray	
Anti-interference	N in accordance with VDE	0875	

Values between parentheses = inductive load cos ϕ = 0.8

Ordering information

	Temperature	Туре	Order code	Pack
FZK 011	+5° to +60°C	ACC818079	4TBJ818079R0100	1
FZK 011	-20° to +35°C	ACC818269	4TBJ818269C0100	1
ZR 011	0° to +60°C	ACC818217	4TBJ818217R0100	1

(1) At an ambient temperature of 20°C

22

Accessories - Thermostat

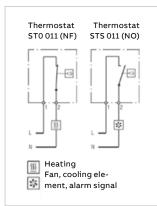


FTO 011



FTS 011

Connection diagram



Function

The mechanical thermostat is a dual switch with low hysteresis. The thumb wheel is for antiicing adjustment. The casing ensures optimal air circulation around the bimetallic element.

STO 011

Thermostat (contact normally closed) for heating resistor regulation. The contact is opened when the temperature increases.

STS 011

Thermostat (contact normally open) for regulating filter fans, heat exchangers and air conditioning units or for triggering signals when the temperature threshold is exceeded. The contact is closed when the temperature increases.

Technical specifications

Туре	
Hysteresis	4 K (±3 K tolerance)
Heat sensor	with bimetal element
Contact type	snap switching
Life cycle	> 100,000 cycles
Power	250 V AC, 10 (2) A 120 V AC, 15 (2) A 30 W DC on 24 V DC to 72 V DC
Max. start-up current	16 A AC for 10 s
Connection	2-pole terminal, max. tightening torque 1 Nm: 2.5 mm² flexible/solid cable (AWG 14)
Attachment	clip for 35mm DIN rail, EN 60715
Box	plastic material UL94 V-0, light gray
Dimensions	70 x 33 x 42 mm
Weight	50g approximately
Installation	mandatory
Operating/storage temperature	-45 to +80°C (-49 to +176°F)
Operating/storage humidity	max. 90% RH (condensation-free)
Protection rating	IP20
Certification	VDE, UL File No. E164102, EAC

Ordering information

	Contact	Temperature	Туре	Order code	Pack
STO 011	NC	0° to 60°C	ACC818267	4TBJ818267C0100	1
STS 011	NO	0° to 60°C	ACC818268	4TBJ818268C0100	1

Accessories - Thermostat

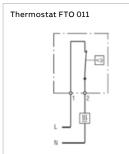


FTO 011

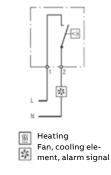


FTS 011

Connection diagram



Thermostat FTS 011



Function

Preset thermostat FTO 011

Thermostat with normally-open contact (red casing) for regulating heating resistors or triggering signaling in the event of temperature thresholds being exceeded. The contact is opened when the temperature increases.

Preset thermostat FTS 011

Thermostat with normally-open contact (blue casing) for regulating filter fans, heat exchangers and air conditioning units or for triggering signals when the temperature threshold is exceeded. The contact is closed when the temperature increases.

Technical specifications

Туре	
Heat sensor	with bimetal element
Contact type	snap switching
Life cycle	> 100,000 cycles
Power	250 V AC, 5 (1.6) A 120 V AC, 10 (2) A 30 W DC
Max. start-up current	16 A AC for 10 s
Connection	2-pole terminal, max. tightening torque 0.8 Nm: 2.5 mm² flexible/solid cable (AWG 14)
Attachment	clip for 35 mm DIN rail, EN 60715
Box	plastic material UL94 V-0, light gray
Dimensions	47 x 33 x 33 mm
Weight	ca 30 g
Installation	mandatory
Operating/storage temperature	-40 to +80°C (-40 to +176°F) / -45 to +80°C (-49 to +176°F)
Operating/storage humidity	max. 90% RH (condensation-free)
Protection rating	IP20
Certification	VDE, UL File No. E164102, EAC (Eurasian Conformity)

Ordering information

	Contact	Temperature	Туре	Order code	Pack
FTO 011	NC	5° to 15°C	ACC818259	4TBJ818259C0100	1
	NC	15° to 25°C	ACC818260	4TBJ818260C0100	1
	NC	0° to 10°C	ACC818261	4TBJ818261C0100	1
FTS 011	NO	40° to 50°C	ACC818262	4TBJ818262C0100	1
	NO	50° to 60°C	ACC818263	4TBJ818263C0100	1
	NO	25° to 35°C	ACC818264	4TBJ818264C0100	1

Accessories - Hygrotherm



The hygrostat/thermostat measures both temperature and humidity, and is able to activate heating or cooling independently.

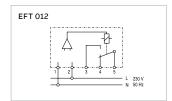
Technical specifications

Adjustment range:	
- Temperature	0°C to 60°C
- Hysteresis	2К
- Relative humidity of the air	50% to 90%
- Rest time	160 secs.
Power supply voltage	100-240 V / 50-60 Hz
Contact type	relay output: NO/NF switch
Power output ⁽¹⁾	8 A (4) 250 V AC 0.5 A 100 V DC 8 A 12 V DC 5 A 35 V DC
On/Off indicator	LED
Weight	140g
Dimensions (HxWxD)	50 x 67 x 43 mm
Protection rating	IP20
Connection	2.5 mm² screw-in terminals
Attachment	35mm DIN rail(EN 50022)
Box	plastic UL 94 V0
Anti-interference	N in accordance with VDE 0875

(1) Values between parentheses: inductive load $\cos\phi$ = 0.80

Ordering information

Connection diagram



	Туре	Order code	Pack
ETF 012	ACC818083	4TBJ818083R0100	1
ETF 012 with external sensor	ACC818271	4TBJ818271C0100	1

Accessories - Hygrostat



MFR 012



EFR 012

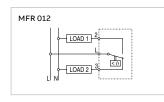
The humidity regulator is designed to control the temperature and air humidity inside the enclosure. The regulator is activated when the humidity level reaches 65%. In doing so, the system efficiently prevents the risk of condensation and corrosion.

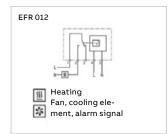
Technical specifications

	MFR 012	EFR 012
Adjustment range	35 to 95% RV	40 to 90% RV
Switching hysteresis	tolerance of ±3 % RH	tolerance of ±3 % RH
Nominal voltage	250 V AC	230 V AC, 50/60 Hz
Switching capacity, max. load:		
- Resistive load	5 A 250 V	240 V AC, 8 (1.6) A
- Inductive load $\cos \phi$ 0.8	0.2 A 250 V AC	120 V AC, 8 (1.6) A
- Inductive load L/R = 3 ms	1 A 50 V DC to 75 V DC	100 W AC to 24 V DC
Switching capacity, min. load:	100 mA DC / AC 20 V	
Contact type	CO NO / NC	CO (relay)
Connection	terminal plate inside the casing, 3 x 2.5 mm²	5-pole terminal, max. tightening torque 0.5 Nm: 2.5 mm² solid/ flexible cable (AWG 14)
Box	plastic, light gray	plastic material UL94 V-0, light gray
Installation	35 mm DIN rail	clip for 35mm DIN rail, EN 60715
Protection rating	IP20	IP20
Dimensions (HxWxD)	67 x 50 x 38mm	64.5 x 42 x 38mm
Weight	60 g	70g

(1) Values between parentheses: inductive load $\cos\phi$ = 0.80

Connection diagram





Ordering information

	Туре	Order code	Pack
MFR 012	ACC818190	4TBJ818190R0100	1
EFR 012	ACC818270	4TBJ818270C0100	1

Accessories - Passive cabinet ventilation

The differences between ambient temperature and the temperature inside a cabinet with a high protection rating may generate variations in pressure. In the event of under-pressure, the cabinet may draw in dust and moisture. Any moisture trapped inside the cabinet will be deposited as condensation. This condensation can be prevented through the use of ventilation grilles.

Product	Туре	Order code	Pack	Product	Туре	Order code	Pack
IP44 ventilation grille				IP55 pressure comp	ensation plug		
Suitable for a ventilation of Includes 2 grilles and 4 nylo		ulation.		or exterior influence changes in pressure changes in pressure	cabinets and enclosu s, which result in tem Pressure compensat and prevent the ingre se in electrical cabine	perature fluctuation ion plugs compensates ss of dust and moist	s during te for ture. The
1	8			accordance with the Set of 2 pieces	DIN EN 62208 standa ACC81807		100 1
2000 mm ² grille	PS832019	4TBP832019C01	00 1	Technical an esificat	:		
				Technical specificat	ø 65.5 mm x 30.5 m	~	
					ø 37 mm		
				Cut-out			
				Attachment	PG 29 threaded or	nut	
190				Material	ABS/PC		
3000 mm² grille	PS832743	4TBP832743C01	00 1	Air inlet	±1.5 cm ²		
Soconini grine	1 3032113	1101032113001	00 1	Protection rating	IP55		
				Note:	around the use of If the plug is not ir	optimal pressure re 2 plugs, diagonally o nstalled vertically, th is reduced to IP54.	pposed.
	PS832744	4TBP832744C01	00 1				
				Vents - IP44 ⁽¹⁾			
IP44 vent (RAL 7035)				Set of 2 pieces, bore diameter Ø 34.9 mm	AR831009	4TBA831009C0	100 1
In order to guarantee suffic two vents must be installed bottom. Kit includes: drillin Set of 2 polyamide pieces	d; one at the top		the				
				(1) If positioned in the co der the hood of a PolySa	rners of an Aria cabinet c fe cabinet	or un-	
Vents (IPx4)							
Improve ventilation and pre	event condensat	ion Recommended					
installation above or below							
	MB861728	4TBG861728R01	00 25				

22

Product

22

Pack

General purpose enclosures

Accessories - Passive cabinet ventilation

Туре

Order code

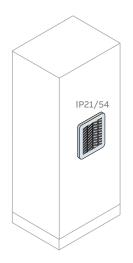
Set of 2 pieces	- IP66			
Set of 2 pieces				_
	M40	ACC818223	4TBJ818223R0100	1
Highly resistant to poor weather conditions and UV, compliant with the UL746C standard	M40	ACC870418	4TBJ870418C0100	1
	M12	ACC818287	4TBJ818287C0100	1
			39 19	
a a				
Installation		M40 x 1.5 or M	112 x 1.5 thread with n	ut.
Torque		M40: 5 Nm, M	12: 0.5 Nm	
Mounting depth		M40: approxi approximatel	mately 16 mm, M12: y 8 mm	
Sealing		NBR seal		
Filter		waterproof m	embrane	
Dimensions		M40: Ø 60 x 3	7 mm, M12: Ø 17 x 17.	5 mr
Installation		mandatory		
Pressure compensation STAINLESS AISI 304 STAINLESS AISI 304	plug	UL (870418), - IP66 ACC818288 ACC818289	4TBJ818288C0100 4TBJ818289C0100	1 1
Certification Pressure compensation STAINLESS AISI 304 STAINLESS AISI 304 STAINLESS AISI 316L	plug	UL (870418), - IP66 ACC818288	4TBJ818288C0100	
Pressure compensation STAINLESS AISI 304 STAINLESS AISI 304 STAINLESS AISI 316L	plug	UL (870418), -IP66 ACC818288 ACC818289 ACC818290 ACC818290 ACC818290 ACC818290 ACC818290 ACC818290 ACC818290 ACC818289 ACC818289 ACC818289 ACC818289 ACC818289 ACC818289 ACC818289 ACC818289 ACC818289 ACC818289 ACC818289 ACC818289 ACC818289 ACC818289 ACC818289 ACC818289 ACC818289 ACC818289 ACC818289 ACC818290 ACC818290 ACC818290 ACC818290 ACC818289 ACC818290 ACC8180 ACC818290 ACC8180 ACC8	4TBJ818288C0100 4TBJ818289C0100 4TBJ818290C0100	1
Pressure compensation STAINLESS AISI 304 STAINLESS AISI 304 STAINLESS AISI 316L	plug	UL (870418), -IP66 ACC818288 ACC818289 ACC818290 ACC818290 ACC818290 ACC818290 ACC818290 ACC818290 ACC818290 ACC818289 ACC818290 ACC8190 ACC	4TBJ818288C0100 4TBJ818289C0100 4TBJ818290C0100	1
Pressure compensation STAINLESS AISI 304 STAINLESS AISI 304 STAINLESS AISI 316L	plug	UL (870418), -IP66 ACC818288 ACC818289 ACC818290 ACC818290 ACC818290 ACC818290 ACC818290 ACC818290 ACC818290 ACC818289 ACC818289 ACC818289 ACC818289 ACC818289 ACC818289 ACC818289 ACC818289 ACC818289 ACC818289 ACC818289 ACC818289 ACC818289 ACC818289 ACC818289 ACC818289 ACC818289 ACC818289 ACC818289 ACC818290 ACC8190	4TBJ818288C0100 4TBJ818289C0100 4TBJ818290C0100	1
Pressure compensation STAINLESS AISI 304 STAINLESS AISI 304 STAINLESS AISI 316L	plug	UL (870418), -IP66 ACC818288 ACC818289 ACC818290 ACC818290 ACC818290 ACC818290 ACC818290 ACC818290 ACC818290 ACC818289 ACC818290 ACC818289 ACC818289 ACC818290 ACC818290 ACC818289 ACC818290 ACC818289 ACC818290 ACC818289 ACC818290 ACC818290 ACC818280 ACC818290 ACC818290 ACC818290 ACC818290 ACC818290 ACC818290 ACC818290 ACC818290 ACC818280 ACC818280 ACC818290 ACC818280 ACC8180 ACC818280 ACC8180 A	4TBJ818288C0100 4TBJ818289C0100 4TBJ818290C0100	1
Pressure compensation STAINLESS AISI 304 STAINLESS AISI 304 STAINLESS AISI 316L	plug	UL (870418), IP66 ACC818288 ACC818289 ACC818290 ACC818290 ACC818290 ACC818290 ACC818290 ACC818290 ACC818290 ACC818289 ACC818290 ACC818289 ACC818290 ACC818289 ACC818290 ACC818290 ACC818290 ACC818290 ACC818290 ACC818290 ACC818290 ACC818290 ACC818290 ACC818290 ACC818290 ACC818290 ACC818289 ACC818290 ACC818290 ACC818289 ACC818290 ACC818289 ACC818290 ACC818280 ACC818289 ACC818290 ACC818289 ACC818290 ACC818290 ACC818289 ACC818290 ACC8189 ACC8190 ACC8189 ACC8190	4TBJ818288C0100 4TBJ818289C0100 4TBJ818290C0100 4TBJ818290C0100	1
Pressure compensation STAINLESS AISI 304 STAINLESS AISI 304 STAINLESS AISI 316L	plug	UL (870418), IP66 ACC818288 ACC818289 ACC818290 ACC818290 ACC818290 ACC818290 ACC818290 ACC818290 ACC818290 ACC818289 ACC818290 ACC8180 ACC8180 ACC8180 ACC818290 ACC81890 ACC818290 ACC818290 ACC8190 A	4TBJ818288C0100 4TBJ818289C0100 4TBJ818290C0100 4TBJ818290C0100	1
Pressure compensation STAINLESS AISI 304 STAINLESS AISI 304 STAINLESS AISI 316L	plug	UL (870418), IP66 ACC818288 ACC818289 ACC818290 ACC818290 ACC818290 ACC818290 ACC818290 ACC818290 ACC818290 ACC818289 ACC818290 ACC818289 ACC818289 ACC818290 ACC818290 ACC818290 ACC818290 ACC818290 ACC818290 ACC818290 ACC818290 ACC818289 ACC818290 ACC818290 ACC818289 ACC818290 ACC818289 ACC818290 ACC8190 ACC818290 ACC81	4TBJ818288C0100 4TBJ818289C0100 4TBJ818290C0100 4TBJ818290C0100	1

DAK 284

Product			Туре	Orde	r code	Pac
Ventilated	cable gland	d - IP66/	IP67			
Air		Torque				
permeabili	ity					
25 l/h	M12	2Nm	ACC818291	4TBJ	818291C0100	1
25 l/h	M16	2Nm	ACC818292	4TBJ	818292C0100	1
40 l/h	M20	5Nm	ACC818293	4TBJ	818293C0100	1
T.	9	IMS			vi	
Installatio	n	M12 x 3	1.5 / M16 x 1.5	/ M20	x 1.5 thread	
Mounting o	depth	0.5 – 3	mm with nut			
Material		plastic	, light gray			
Protection	rating	IP66 /	IP67 (EN 60529	9)		
Sealing		NBR se	al			
Filter		PTFE				
Installatio		manda	2			
Operating,	5	-20 to ·	+80°C (-4 to +1	76°F)		
temperatu						
Certificati	on	VDE, U	L, EAC			
Dimensior	ns (mm)					
Туре	ACC818291		ACC818292		ACC818293	
	4TBJ81829: M12	LC0100	4TBJ8182920 M16	0100	4TBJ818293C M20	0100
L	8		10		10	
D	4 - 8		4 - 8		6 - 12	
SW1	19		19		24	
SW2	18		22		26	
DD 084						
Product			Туре	Orde	r code	Pac
Drainage r	olug - IP66/I	P67/IP6				
Dramager	Jug 11 00/1		AC818294	1701	818294C0100	1
0				10.50		
Torque		M12 x 3	1.5 / M16 x 1.5	/ M20	x 1.5 thread	
Mounting o	depth	0.5 – 3	mm with nut			
Material		highly		or wea	JL94 V-0, dark o ather condition 16C standard	
Protection	rating	IP66 /	IP67 (EN 60529	9)		
Sealing		NBR se	al			
Filter		PTFE				
Installatio	n	manda	tory			
Operating,	-		+80°C (-4 to +1	76°F)		
temperatu Certificati		VDE, U				
Installation of the encl the hole m	n instruction osure and ir	ns: drill a nstall the burred e	Ø 50.5+ mm h drainage syst	em wit	the lower section tha nut. Import ast be fitted on	ant:

exterior side of the enclosure.

Accessories - Ventilation kits



Temperature management

IP21/54 natural ventilation kit

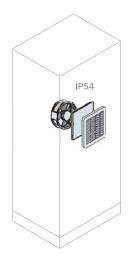
Gratings made of insulating material (self-extinguishing ABS UL94V-0) RAL7035 colour, complete with high dust collection capacity filter cloth (600g/m²), able to reduce maintenance interventions (cleaning by means of washing in water or by beating). Degree of protection IP21 without filter, IP54 with filter according to IEC 60529, Type 1 without filter, Typer 12 with filter according to UL approval 508 fitted with pre-assembled gasket seal. CE and cURus approval.

Air entry surface	for ventilation	Dime (mm)	nsions				Package/
Without filter cm ²	With filter cm²	w	w		Туре	Order code	No. of pieces
Grille+air passag	e filter kit						
27	6	105	105	80 //R 3	EN0105K		1/1
53	10	150	150	8 1/R 3	EN0150K		1/1
121	22	204	204	8 1/R 3	EN0204K		1/1
225	32	250	250	8 1/R 3	EN0250K		1/1
317	55	325	325	c PA1 us	EN0325K		1/1

c**FL)**us

.

Accessories - Ventilation kits



Temperature management

IP54 forced ventilation Kit

.

Grilles made of insulating material (ABS self-extinguishing UL94V-0) RAL7035 colour, complete with filter cloth with high dust accumulation capacity ($600g/m^2$), able to reduce maintenance interventions (cleaning by washing with water or beating). IP54 degree of protection with filter according to UL approval 508 fitted with pre-mounted tightness gasket. Operating temperature -10 °C + 50 °C. The fans allow reversible flow of air. CE and cURus (see mark) approval.

Air entry surface	e for ventilation	Dimeı (mm)	nsions			Package/
Consumption 50/60Hz (W)	Capacity 50/60Hz (m³/h)	w	w		Type Order code	No. of pieces
Ventilation filte	r with IP54 230V ~	fan				
10/8	23/30	105	105	511 18	EN1105K	1/1
20/19	57/61	150	150	511 us	EN1150K	1/1
17/15	120/135	204	204	511 08	EN1204K	1/1
29/29	240/270	250	250	511 05	EN1250K	1/1
67/87	520/580	325	325		EN2325K	1/1
Ventilation filte	r with IP 54 1150V~	• fan				
9/7	23/30	105	105	577 18	EN2105K	1/1
20/18	57/61	150	150	511 18	EN2150K	1/1
17/15	120/135	200	200	.911 us	EN2204K	1/1
30/30	240/270	250	250	511 us	EN2250K	1/1
50/64	520/580	325	325		EN3325K	1/1

Accessories - General accessories

	Metric size D2	Drill diam- eter Ø (mm)	Cable cross- section D1 (mm)	L1	L2	L3	E	Wrench size Sw (mm)	Туре	Order code	Pack
	M12	12.5	4 - 6	21	12	8	17	15	APACC851650	4TBO851650C0100	50
	M16	16.5	5.8 - 8	25	15	8	21	19	APACC851651	4TBO851651C0100	50
	M20	20.5	7 - 12	35	20	10	27	24	APACC851652	4TBO851652C0100	50
l L1I	M25	25.5	12 - 18	36	22	12	36	33	APACC851653	4TBO851653C0100	25
	M32	32.5	17 - 25	42	25	12	47	42	APACC851654	4TBO851654C0100	10
	M40	40.5	22 -32	46	30	13	58	53	APACC851655	4TBO851655C0100	10
	M63	63.5	38 - 44	47	30	14	71	65 / 68 ⁽¹⁾	APACC851657	4TBO851657C0100	5
	(1) body 68	3 / nut 65								Temperature: -30°C to	+100°C

Cable gland - Metric - IP54 polystyrene (RAL 7035)

	Metric size D2	Drill diam- eter Ø (mm)	Cable cross- section D1 (mm)	L1	L2	L3	E	Wrench size Sw (mm)	Туре	Order code	Pack
	M20	20.5	8-13	27	16.2	9.5	28	25	APACC851660	4TBO851660C0100	50
l+L1+l	M25	25.5	10 - 16	30	18.2	10	33	30	APACC851661	4TBO851661C0100	50
										Temperature: -30°C to	o +60°C

	Metric size D1	Width	Thickness	Wrench size	Туре	Order code	Pack
		D3	M2	Sw (mm)			
	M12	19	5	17	APACC851664	4TBO851664C0100	100
	M16	25	5	22	APACC851665	4TBO851665C0100	100
	M20	29	6	26	APACC851666	4TBO851666C0100	100
	M25	36	6	32	APACC851667	4TBO851667C0100	100
Sw-	M32	46	7	41	APACC851668	4TBO851668C0100	50
	M40	54	7	50	APACC851669	4TBO851669C0100	25
	M63	83	8	75	APACC851671	4TBO851671C0100	25

		Metric size D1	Width	Thickness	Threaded length	Туре	Order code	Pack
			D2	L1	L2 (mm)			
		M12	15	10	6	APACC851672	4TBO851672C0100	100
2180.11	D2	M16	20	10.5	6	APACC851673	4TBO851673C0100	100
		M20	24	10.5	6	APACC851674	4TBO851674C0100	100
							Temperature: -40°C to	+100°0

Accessories - General accessories

	Metric size D1- D2	Threaded length L1 (mm)	Threaded length L2 (mm)	Wrench size Sw (mm)	Туре	Order code	Pack
	M32 - M25	16	10	36	APACC851682	4TBO851682C0100	25
+ L2+ + L1 + Sw -+	M40 - M32	16	10	46	APACC851683	4TBO851683C0100	10

+	Metric size D1- D2	Cable cross- section	Threaded length L1	Threaded length L2	Туре	Order code	Pack
		(mm)	(mm)	(mm)			
(\bigcirc)	M20 - 24	9 - 12	19	10	APACC851687	4TBO851687C0100	100
	M40 - 46	19 - 25	28	16	APACC851690	4TBO851690C0100	10

Washer - Metric - IP54 \rightarrow IP68 polyethylene

	1 21	S
and the second second		· ·

Metric size	S (mm)	D1 (mm)	D2 (mm)	Туре	Order code	Pack
M12	1.5	11.6	16	APACC851691	4TBO851691C0100	100
M12 Thickness S - di			16	APACC851691	4TBO851691C0100 Temperature: a	-

Accessories - General accessories

Cable g	land - PG -	IP54 poly	carbonate	(gray)									
PG	D1	Drill diamet	D3 er	D5		L5	S	1	S2		Туре	Order code	Pack
	(mm)	ø (mm)											
11	18.6	19	11	24		8	19	9	22		APACC851038	4TBO851038C0100	50
13.5	20.4	21	13	26.5	1	9	2	1	24		APACC851042	4TBO851042C0100	50
16	22.5	23	16	29.5		10	2	3	27		APACC851046	4TBO851046C0100	50
21	28.3	29	21	35		11	3	0	32		APACC851051	4TBO851051C0100	25
29	37	38	27.5	45		11	4	1	42		APACC851056	4TBO851056C0100	10
36	47	48	34	57		13	5	0	53		APACC851060	4TBO851060C0100	5
42	54	55	42	64		12.5	5	5	60		APACC851062	4TBO851062C0100	5
Nuts - P	olycarbon	ate (grav)			PG		D		н		Туре	Order code	Pack
			,		11		25		5		APACC851075	4TBO851075C0100	_
		→ D			13.	5	27.	5	5.5		APACC851076	4TB0851076C0100	
				H H	16	5	31	5	6		APACC851077	4TB0851077C0100	
		i		ł									
Plugs (b	lack)				A		в		с	1	Туре	Order code	Pack
					PG	16	26		11		APACC851064	4TBO851064C0100	_
		1	(B) (B)		PG		32		11.5	5	APACC851065	4TB0851065C0100	
		A O B	C I		PG		41		13		APACC851066	4TBO851066C0100	
		c.			PG		51		12.	5	APACC851068	4TBO851068C0100	
Pipe en	tries - Non	-threaded	d (black)										
Pipe Ø	A	В	C	D		E	F	-	G		Туре	Order code	Pack
5/8"	PG-16	26	17	21		14.1		15	9		APACC851069	4TBO851069C0100	20
3 / 4"	PG-16	26	20	24		16		21	9		APACC851070	4TB0851070C0100	
						1							
Pipe en	tries - Non	-threaded	d (black) Pipe A	<u> </u>	в	c	D	E	F	G	Туре	Order code	Pack
			Ø	-	_		_		_	-	.)[-		
			5/8"F	PG-16	26	17	21	14.1	15	9	FOB61TUB3	4TBB600933C0200	25
			3/4" F	PG-16	26	20	24	16	21	9	FOB61TUB4	4TBB600934C0200	25
C	терер В елек терер D елек Полого Поло Пол												
не н		ġ											

Accessories - General accessories

	Cable Ø max.	PG	Drill di- ameter Ø (mm)	Color	Туре	Order code	Pack
	18	16	23	gray	FORJRPG16	4TBR610130C0200	25
ина на н	24	21	29	gray	FORJRPG21	4TBR610132C0200	25
	32	29	38	gray	FORJRPG29	4TBR610133C0200	25
	49	42	54	gray	APACC852191	4TBO852191C0100	1
	Cable Ø min.	max.	Drill di- ameter Ø (mm)	Color	Туре	Order code	Pack
119	12	48	55	gray	APACC851096	4TBO851096C0100	20
	12	30	35	gray	APACC851097	4TBO851097C0100	20
* 7////	12	36	45	gray	APACC851098	4TBO851098C0100	20
	22	66	75	gray	APACC851099	4TBO851099C0100	10
× X	22	58	65	gray	APACC851100	4TBO851100C0100	10
Railstellen					Туре	Order code	Pack
	- DIN rail - Peak cu	cross-sec mounting	kA (10 mse	c)	ACC610022	4TBR610022C0200 4TBC617992R0100	-
4	- DIN rail - With pro - Cu 12x 1 - Peak cu	mounting otective s 10 mm	g screen kA (10 msee	c) /			1,3
	- I = 160A - DIN rail	cross-sec mounting	ction 12x5 g <a (10="" msec<="" td=""><td>:)</td><td>ACC610020</td><td>4TBR610020C0200</td><td>12</td>	:)	ACC610020	4TBR610020C0200	12
· • • • •	- Protect	ive screer	n for 61002	0	ACC610021	4TBR610021C0200	12
	screws - Maximu	1.2 m + 50 1m span: 2) jumpers a 200 mm with 61001		ACC610017	4TBC610017C0200	10
and the second s	- Max. sp max. 20 - DIN rail	acing of s 0mm mounting	for four 12x supports: g with the bu		ACC610018	4TBC610018C0200	1

(1) The ACC610017 and ACC610018 assembly has a peak current of: 15 kA (10 msec)

Accessories - General accessories

Busbar/cable terminals			Туре	Order code	Pack
1.	With 4 bypasses	35-70 mm² + 4 bypasses (16 r	nm²)		
4.4	- For Al/Cu cable - Max. thickness: 12mm	2 cables	ACC779221	4TBC779221C0100	4
	- Wax. Unickness: 12 mm - Width: unlimited	3 cables	ACC779222	4TBC779222C0100	4
11		90-150 mm² + 4 bypasses (25	mm²)		
		2 cables	ACC779218	4TBC779218C0100	4
a start and a start a s		3 cables	ACC779219	4TBC779219C0100	4
Rubber insulation cap			Туре	Order code	Pack
		For 35-70 mm² terminal			
			ACC779224	4TBC779224C0100	4
4		For 95-150 mm ² terminal			
			ACC779223	4TBC779223C0100	4
Connection busbars			Туре	Order code	Pack
Dessee	- Phase - black - 6 x 10mm² and 2 x 16 mm²		FORSTTL	4TBR610185C0200	4
	- Interlocking on flat bar 12 x 2 mm				
200000 m	- Ground - green - 6x10mm ² and 2x16		FORSTTPE	4TBR610186C0200	1
	mm² - Interlocking on flat bar 12 x 2 mm		FORSTIPE	415601018000200	4
	- Neutral - blue - 6x10mm² and 2x16		FORETTN	470001010700000	4
	mm² - Interlocking on flat bar 12 x 2 mm		FORSTTN	4TBR610187C0200	4
Sene -	- 14x16 mm² - DIN rail mounting		ACC610065	4TBC610065C0100	1
LANGE COOL			ACC010003	+12001000500100	-
	- Ground busbar - 12x4 with 3 terminals		APACC851021	4TB0851021C0100	

Busbar/	busbar termiı	nals							
			Main busbar	Secondary busbars	Min. total thickness	Clamped bars	Туре	Order code	Pack
		201 202	12	12	5	15	APACC851125	4TBO851125C0100	50
	-		20	15 - 20	5 - 4	26 - 24	APACC851120	4TBO851120C0100	10
	X	10F	30	15 - 20 - 30	7 - 6 - 5	28 - 27 - 26	APACC851129	4TBO851129C0100	10

Accessories - General accessories

Busbar/busbar terminals



			(mm)	thickness (mm)	(mm²)	
0 10	4TBO851117C0100	APACC851117	30	5 to 6	10 to 50	
0 10	4TBO851118C0100	APACC851118	15	3 to 5	4 to 35	
10	4TB0851118C01	APACC851118	15	3 to 5	4 to 35	

Terminal rosettes for 10-16 mm² Al and Cu cable

_			Attachment	Ground clamp	н	Туре	Order code	Pack
W HANK		- 4 split terminals with max. terminal	screw-fit	none	46	ACC779212	4TBC779212C0100	5
		connection: - Single tin pressure element: 4x4mm ² -	on DIN rail	none	48	ACC779213	4TBC779213C0100	5
68 ►	H►	4x6 mm ² - 4x10 mm ² -	screw-fit	included	46	ACC779214	4TBC779214C0100	5
		3x16 mm ² - Double tin pressure element: To be ordered	on DIN rail	included	48	ACC779215	4TBC779215C0100	5
0.0	100 ·	separately						
LL & HU	- 36	-36-						
A C			screw-fit	none	48	ACC890705	4TBC890705C0100	5

Double pressure element		Туре	Order code	Pack
	Set of 4 securing nuts	ACC779216	4TBC779216C0100	1
Insulation cap		Ture	Order code	Pack
	Made of rubber	Type ACC890704	4TBC890704C0100	

Accessories - General accessories

					Туре	Order code	Pack
	- Without in		on caps				
	- 1 securing - Al/Cu cabl				ACC779201	4TBC779201C0100	10
	- 2 securing	nuts					
	- Al/Cu cabl				ACC779202	4TBC779202C0100	10
	- With insula	ation c	aps				
	- 2 securing - Al/Cu cabl				ACC779204	4TBC779204C0100	10
	- With insula		aps and				
	attachmer - 2 securing - Al/Cu cabl	nuts			ACC779205	4TBC779205C0100	10
		C					
Insulation cap					Туре	Order code	Pack
					ACC890838	4TBC890838C0100	10
Double pressure element					Туре	Order code	Pack
	Set of 4 sec	uringı	nuts		ACC779203	4TBC779203C0100	10
Cable clamps for overhead lines	Cross- A section	4	В	с	Туре	Order code	Pack
Cable clamps for overhead lines	section	a 14	B 24	C 4.5	Туре КІМ601227	Order code 2CDB710029R0000	
Cable clamps for overhead lines	section 10 mm ² 1						100
Cable clamps for overhead lines	section 10 mm² 1 16 mm² 2	14	24	4.5	KIM601227	2CDB710029R0000	100 50
Cable clamps for overhead lines	section 10 mm² 1 16 mm² 2 35 mm² 2	14 22	24 29	4.5 5.5	KIM601227 KIM601228	2CDB710029R0000 2CDB710019R0000	100 50 25
Cable clamps for overhead lines	section 10 mm² 1 16 mm² 2 35 mm² 2	14 22 25	24 29 35	4.5 5.5 7.5	KIM601227 KIM601228 KIM601229	2CDB710029R0000 2CDB710019R0000 2CDB710022R0000 2CDB710031R0000	100 50 25
	section 10 mm² 1 16 mm² 2 35 mm² 2 50 mm² 2	14 22 25 28	24 29 35 43.5	4.5 5.5 7.5	KIM601227 KIM601228 KIM601229 KIM601230	2CDB710029R0000 2CDB710019R0000 2CDB710022R0000	100 50 25 25
	section 10 mm² 1 16 mm² 2 35 mm² 2 50 mm² 2	14 22 25 28	24 29 35 43.5	4.5 5.5 7.5 9.0	KIM601227 KIM601228 KIM601229 KIM601230	2CDB710029R0000 2CDB710019R0000 2CDB710022R0000 2CDB710031R0000	100 50 25 25 Pack
	section 10 mm ² 1 16 mm ² 2 35 mm ² 2 50 mm ² 2 DIN A4, 325	14 22 25 28 B x 18	24 29 35 43.5 0H, self-ad	4.5 5.5 7.5 9.0	KIM601227 KIM601228 KIM601229 KIM601230	2CDB710029R0000 2CDB710019R0000 2CDB710022R0000 2CDB710031R0000 Order code	100 50 25 25 Pack
Document pocket	section 10 mm ² 1 16 mm ² 2 35 mm ² 2 50 mm ² 2 DIN A4, 325	14 22 25 28 B x 18	24 29 35 43.5 0H, self-ad	4.5 5.5 7.5 9.0	KIM601227 KIM601228 KIM601229 KIM601230	2CDB710029R0000 2CDB710019R0000 2CDB710022R0000 2CDB710031R0000 Order code	100 50 25 25 Pack
Document pocket	section 10 mm ² 1 16 mm ² 2 35 mm ² 2 50 mm ² 2 DIN A4, 325	14 22 25 28 B x 18	24 29 35 43.5 0H, self-ad	4.5 5.5 7.5 9.0	KIM601227 KIM601228 KIM601229 KIM601230 Type PS811516 PS832000	2CDB710029R0000 2CDB710019R0000 2CDB710022R0000 2CDB710031R0000 70000 70000 70000 70000 70000 70000 70000 70000 70000 700000 700000 7000000	100 50 25 25 Pack
Document pocket	section 10 mm ² 1 16 mm ² 2 35 mm ² 2 50 mm ² 2 DIN A4, 325	L4 22 25 28 B x 18 B x 22	24 29 35 43.5 0H, self-ac	4.5 5.5 7.5 9.0 dhesive - gray dhesive - transparent	KIM601227 KIM601228 KIM601229 KIM601230 Type PS811516	2CDB710029R0000 2CDB710019R0000 2CDB710022R0000 2CDB710031R0000 Order code 4TBC811516C0100	100 50 25 25 Pack

Accessories - General accessories

Module covers		Туре	Order code	Pac
	12 modules, sectionable by 1/2 module			
		ZA3P5	4TBR610142C0200	5
a sure				
Handle 🗆		Туре	Order code	Pac
	Height 50mm, with reinforcement molding + Vync	olite screws		
		APACC851244	4TBO851244C0100	1
IP54 windows 🗉		Туре	Order code	Pac
	Includes a template and fixings			
	77 x 60 mm - 2 mod.	ACCWD2M	4TBO861395C0100	1
240	77x96mm - 4 mod.	ACCWD4M	4TBO861396C0100	1
	¹⁸⁹ 77 x 130 mm - 6 mod.	ACCWD6M	4TBO861397C0100	1
	¹⁵ 77 x 163 mm - 8 mod.	ACCWD8M	4TBO861398C0100	1
189 221.5	Screw-fit 🛛 IP67	AP9X7WD	4TBO866001C0100	1
	With hinges and seal 🗆 IP55 77 x 60 mm - 2 mod.	APACC890837	4TBO890837C0100	1
	Screw-fit 🛛 IP67, with label holders	AP8X4WDL	4TBO866002C0100	1
() types 3, 3R, 4, 4X, 12 and 13	Screw-fit 🗉 IP67, without label holders			
		AP8X4WD	4TBO866003C0100	1

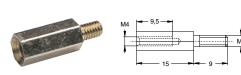
Accessories - General accessories

M4 type rise pill	lars	L (mm)	ØA	ØВ	Туре	Order code	Pack
		10	M4	M4	APACC890800	4TBO890800C0100	50
		15	M4	M4	APACC890801	4TBO890801C0100	50
t		20	M4	M4	APACC890802	4TBO890802C0100	50
	* · ·	25	M4	M4	APACC890803	4TBO890803C0100	50
	ов стать од	30	M4	M4	APACC890804	4TBO890804C0100	50
	• • •	60	M4	M4	APACC890805	4TBO890805C0100	50
		65	M4	M4	APACC890806	4TBO890806C0100	50
		97	M4	M4	APACC890807	4TBO890807C0100	20
		102	M4	M4	APACC890808	4TBO890808C0100	20

M6 type rise pillars	L (mm)	Ø	Туре	Order code	Pack
	15	M6-M6	ACC811337	4TBC811337C0100	100
	20	M6-M6	ACC811338	4TBC811338C0100	100
	25	M6-M6	ACC811454	4TBC811454R0100	100
	30	M6-M6	ACC811339	4TBC811339C0100	100
	35	M6-M6	ACC811455	4TBC811455R0100	100
	45	M6-M6	PS811456	4TBP811456R0100	100
=L= 9 _=	55	M6-M6	ACC811457	4TBC811457R0100	100
	65	M6-M6	ACC811458	4TBC811458R0100	100
	70	M6-M6	ACC811340	4TBC811340C0100	100
9,5	80	M6-M6	ACC811460	4TBC811460R0100	100
	100	M6-M6	ACC811461	4TBC811461R0100	100
	120	M6-M6	ACC811341	4TBC811341C0100	100

M6 type rise pillars	L (mn	n) Ø	Туре	Order code	Pack
	60	M6-M6	ACC811342	4TBC811342C0100	100
	30	M6-M6	ACC811343	4TBC811343C0100	100
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					

М4-М6 Туре



			Туре	Order code	Pack
	15	M6-M4	ACC811336	4TBC811336C0100	100
6					

			1	в	С	D	ØE	Туре	Order code	Pack
	Hex.	M4 1	.5	13.5	8.5	M4	11	KIM601223	2CDB601223R0000	100
(all	10	M5 1	.8	17.0	10	M5	14	KIM601224	4TBS601224C0200	100
		M6 2	2.3	20.4	9	M6	17	KIM601225N	4TBC601225C0100	100
	13 10	M8 2	25.3	24.2	10	M8	20	KIM601226	2CDB601226R0000	50

Accessories - General accessories

Locks with semi-cylindrical profile M4 Type					
Standard: D = 40mm -	- L = 30.5 mm	Туре	Order code	Pack	
	With 2 keys V2432-E	PS832030	4TBP832030C0100	1	
	With 2 keys 1242-E	PS832031	4TBP832031C0100	1	
D	With 2 keys 455-E	PS832465	4TBP832465C0100	1	
A F	With 2 keys 405-E	PS832466	4TBP832466R0100	1	
	With 1 square key, 8 mm	PS832032	4TBP832032C0100	1	
la L	With 1 square key, 8 mm	PS832033	4TBP832033C0100	1	
	With 1 square key, 11 mm	PS832034	4TBP832034C0100	1	
	With 1 double-bit key, 3 mm	PS832029	4TBP832029C0100	1	

M4 type keys		Туре	Order code	Pack
	For security lock no. V2432E	PS832022	4TBP832022C0100	2
DQ	For security lock, 8mm square	PS832026	4TBP832026C0100	1
	For security lock, 8mm triangular	PS832027	4TBP832027C0100	1
	For security lock, 11 mm triangular	PS832072	4TBP832072C0100	1
10	For security lock, double-bit 3 mm	PS832028	4TBP832028C0100	1

crews	Туре	e	Order code	Pack
	M6 flange screw			
	ACC	811483	4TBC811483C0100	100
→ ¹ M6→ ~ [†] Ø14 †	PVC M6 screw for cover p	late (sealab	le)	
	ACC	811451	4TBC811451R0100	100

Brackets	L	Α	с	E	Туре	Order code	Pack
	40	24	9.5	-	ACC811478	4TBC811478R0300	100
4-11-2 4-1	80	64	9.5	-	ACC811479	4TBC811479R0300	100
	120	64	49.5	41.5	ACC811480	4TBC811480C0100	100

Aluminum profiles		Туре	Order code	Pack
- 	Profile length = 3 m			
		ACC811417	4TBC811417C0100	1
- 25 -				

22

Accessories - General accessories

			Туре	Order code	Pack
	-+6+-	C profile 15x8x1 Length: 3m	APACC890848	4TBO890848C0100	1
	- 15 -				
	7.3	DIN profile 35x7.3x1 Length: 3m	APACC890847	4TBO890847C0100	1
	35 				
	-+15+- 	C profile 30x15x1.5 Length: 3m	ACC811619	4TBC811619C0100	1
	30 + + -1.5-				
		Slide nuts for C profile 30 x 15 M6	ACC811363	4TBC811363C0100	25
		Slide nuts for C profile 25 x 10 M6	ACC811365	4TBC811365C0100	50
0000		Cu profile 12 x 5 with M5 tapped holes Length: 3m	ACC811263	4TBC811263C0100	1
		Jumpers + screws	APACC851123	4TBO851123C0100	10
		M5 x 13 Max. 2 x 10 mm² per jumper			
Metal nuts			Туре	Order code	Pack
		M6	ACC811435	4TBC811435C0100	100
		M6 M4	ACC811435 ACC811438	4TBC811435C0100 4TBC811438C0100	
					100
		M4	ACC811438	4TBC811438C0100	100

22

Accessories - General accessories

Slide nuts		Туре	Order code	Pac
	For perforated mounting plate			
	M4 bolt	AR831328	4TBA831328C0100	50
	M5 bolt	AR831329	4TBA831329C0100	50
	M6 bolt	AR831330	4TBA831330C0100	50
Dies villers		Tura	Onden ee de	Dee
Rise pillars		Type	Order code	Pac
	For mounting on symmetrical DIN	ACC610312	4TBC610312C0100	10
Mounting equipment		Туре	Order code	Pac
	Slide + M4 screw			
CO P		APACC890835	4TBO890835C0100	10
CP-	Slide + washer + M4 screw			
		APACC890836	4TBO890836C0100	10
GO				
	M5 screw for meter L = 21 mm			
		APACC890844	4TBO890844C0100	20
Danna	M 4 x 8 screw			
		APACC890849	4TBO890849C0100	50
	M4 slider			
		APACC890841	4TBO890841C0100	50
	M4 washer			
0		APACC890850	4TBO890850C0100	20
-	Coupling set			
		APACC890840	4TBO890840C0100	20

Accessories - General accessories

Profiles	Profile length	Enclosure width	Туре	Order code	Pack
	Type AB (C 15 x 8)				
	100mm	150	APACC890809	4TBO890809C0100	10
	135 mm	185	APACC890812	4TBO890812C0100	10
(<u>7</u> 8)	250mm	300	APACC890817	4TBO890817C0100	10
НВ	Type UB ⁽¹⁾				
	90mm	150	APACC890810	4TBO890810C0100	10
ZB ZB	100mm	150	APACC890811	4TBO890811C0100	10
UB	135mm	185	APACC890814	4TBO890814C0100	10
	200mm	250	APACC890816	4TBO890816C0100	10
АВ	250mm	300	APACC890820	4TBO890820C0100	10
	276mm	300	APACC890819	4TBO890819C0100	10
&d	320mm	370	APACC890824	4TBO890824C0100	10
	550mm	600	APACC890833	4TBO890833C0100	10
	Type ZB (C 15 x 8)				
	476 mm	55	APACC890830	4TBO890830C0100	10

(1) DIN 46.277

General purpose enclosures Characteristics of Gemini switchboards

Gemini, something completely different in switchboards Gemini range is revolutionizing the market of low voltage electric insulating switchboards. The reason for this is that it is the first switchboard made in thermoplastic material, to which the co-injection molding technique gives the same mechanical characteristics as polyester. This means that it is extremely sturdy, with its rigid covering and expanded internal core. Moreover, it contains no fiberglass, a material that with time rises to the surface, jeopardizing the functioning and safety of switchboards made in polyester with which it is usually mixed. Gemini switchboards have an IP66 protection degree (IP30 with the door open and with the appropriate components installed) and a very high resistance to chemical and atmospheric agents. This is the reason why Gemini guarantees excellent performances even in particularly severe operating conditions.

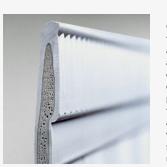
Strong outside and versatile inside, Gemini fits to any application

There are as many configurations as ABB devices for low voltage automation and distribution: moulded-case circuit breakers, modular circuit breakers, monitoring, control and signaling devices, wiring ducts and electrical connection systems. All of these components give to "Gemini system" an enormous range of specific solutions that are easy to assemble with the snap-on system. Nothing can be compared to Gemini, even when they reach the end of their life cycle because they are totally ecologically compatible. The material used to manufacture Gemini is 100% recyclable. Polyester, on the other hand, cannot be recovered. Moreover, to make sure that correct disposal procedures are followed, instructions are provided about how to identify materials and what to do with the product once it has served its useful purpose.









Gemini switchboards are made through co-injection, technology and ABB is the first manufacturer to use it as a molding technique. This process obtains a "sandwich" of two materials with a compact external covering and an expanded core, guaranteeing the highest level of mechanical protection against impacts (IK10) without the need to add hardening substances. Competitors products are usually made in polyester that is usually mixed with fiberglass; passing the time, it rises to the surface and become a risk factor for skin burns that may occur during installation and maintenance through accidental contact. Moreover, it causes deterioration of the technical strength and lasting characteristics of the material to which it is added. Gemini, on the other hand, keeps its mechanical characteristics in the long term. The co-injection technique makes the manufacturing operations themselves safe because the products are completely finished when they come out of the mold without any flash or other surface irregularities.

General purpose enclosures Characteristics of Gemini switchboards

Quality and safety

Gemini is designed and built in compliance with reference Standards that define its constructional and functional characteristics. In particular, the IP66 degree certifies that Gemini is totally protected against the infiltration of solid bodies and is resistant to the penetration of jets of water similar to sea waves. Absolute protection is provided by double insulation even in the event of indirect contact. Even in very difficult application circumstances, Gemini gives highlevel performances, with resistance to fire and abnormal heat up to a temperature of 750 °C and a functioning temperature from -25 °C to 100 °C. Moreover, the material with which it is manufactured retains its characteristics for a long time since it is not subject to corrosion by chemical or atmospheric agents. Also it does not turn yellow when exposed to UV rays.

Photovoltaic

In a typical photovoltaic plant the direct current section comprises a generator consisting of strings composed of photovoltaic modules connected in series. The Gemini series of IP65 sealed switchboards are ideal for use as field combiners or as parallel switchboards, i.e. for outdoor installation near the modules. ABB has a range which is currently unique on the market, and has developed a family of plug & operate solutions, i.e. a series of finished, wired and certified switchboards to meet the needs of a huge range of plant types: from single string for residential applications to large-scale solar fields.







Gemini is made in thermoplastic material that is 100% recyclable. The environmental compatibility of Gemini is an important objective right from the design phase where the Life Cycle Assessment (LCA) procedure, defined in 1990 during the Society of Environmental Toxicology and Chemistry Conference (Vermont, USA), is followed.

Life Cycle Assessment is an objective method for analyzing the energy and environmental loads

relating to a product, process or activity, carried out by identifying and quantifying energy, the materials used and emissions released into the environment. Divided into four phases, the assessment covers the entire life cycle of the product, process or activity, from the extraction and transformation of raw materials, to manufacturing and distribution, and from usage to recycling and decommissioning.

General purpose enclosures Characteristics of Gemini switchboards

A switchboard that is not just one system, but three

Gemini is the result of design work conducted by ABB with the direct collaboration of switchboard manufacturers, installers and designers who considered versatility to be the discriminating element when purchasing a switchboard, equally important as sturdiness and reliability. Gemini fulfils this requirement by providing a product that can be used for three different purposes: in addition to the basic configuration, it also provides the components necessary to be equipped as an automation switchboard or as a distribution and mixed switchboard. In any application, compatibility with ABB protection, control and monitoring portfolio of products means that a real system of integrated and complementary functions can be configured. Typical examples of some Gemini applications can be seen in industrial production departments and on board machines, in galvanization plants and varnishing cabins, in petrol stations and carwashing plants, boiler-rooms, car parks, shopping malls and in any other environments where distribution and automation demand specific safety requirements and service continuity.

Gemini is also flexible with six different box sizes and internal space to accommodate from 24 to 216 DIN modules. To respect safety standards, all the switchboard components can be fixed to the base plate or to the box frame without using any tool; wiring is carried out from the front followed by snapping the base plate or the frame onto the box. The patented frame is fitted with the cable duct incorporated in the uprights.

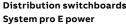
In its design, Gemini repeats the shapes and RAL 7035 grey color of ABB switchboards with which it can be configured as a main protection switchboard.

Experience and innovation

Gemini has two central aspects. It is both the result of years of work in the production of installation material and the expression of the most advanced technology, from design to distribution. In ABB laboratories, computer aided design programs simulate all types of application conditions, translating virtual checks into a process to improve the Gemini performances so that it will be able to respond more accurately to market requirements.

Through Internet at URL www.abb.com/edesign-software you could download free of charge ABB "e-design" software; it includes softwares for the configuration and budgeting of Gemini in distribution and automation mixed applications.





Characteristics of Gemini switchboards



Basic configuration - Gemini switchboards

In the basic configuration, Gemini switchboards are composed of boxes in six different sizes ranging from 335x400x210 mm to 840x1005x360 mm (WxHxD, external measurements) and with opaque or transparent doors. In both versions, the doors are reversible and clip onto the hinges without the need to use tools; the fact that they open at an angle of more than 180° means that it is easy to work on the components installed inside the switchboard. The seal applied by extrusion along the sides of the doors guarantees IP66 degree of protection. Access to the inside of the switchboard is protected by a standard double bit lock that can be replaced by locks of another type available in the accessories. Boxes and doors can be requested either separately or as combined "box + door" codes, to make filling out the order form more flexible. Inside the packages, the door is always wrapped separately and inserted inside a pocket that protects it from accidental damage until wiring is completed and the switchboard is installed. Hole-cover plugs to guarantee IP protection and double insulation for wall mounting are also supplied with the pack together with the instruction sheet.

Specifications	
Protection	IP66 (IEC EN 60529) Class II insulation
Strength	Thermoplastic material moulded in co-injection Resistance to abnormal heat and fire up to a temperature of 750 °C (IEC EN 60695-2-11) IK10 (IEC EN 50102) degree of resistance to impacts Protection against chemical and atmospheric agents (water, saline solutions, acids, basic agents, mineral oils, UV rays) Operating temperature -25 °C ÷ +100 °C
Performances	Rated service voltage up to 1000 V Rated insulating DC voltage up to 1000 V Rated insulating AC voltage up to 1500 V
Flexibility of use	6 sizes from 335x400x210 mm to 840x1005x360 mm (WxHxD, external dimensions) DIN 24 to 216 modules
Installation	Snap-on mounting of all components in compliance with safety Standards
Quality and environment	Compliance with CEI EN 62208 international reference Standard, qualification for the requirements of CEI EN 61439-1 Standard, IMQ mark according to EN 62208 Standard. 100% recyclable EN 60068-2-52 resistance to marine environments EN60068-2-5 resistance direct sun exposure UL Listed: UL508A, UL50, UL50E Nema: Types 1, 3R, 4, 4X, 12



Gemini doors open at an angle of more than 180° giving easy access to the devices installed inside the switchboard.



No tools are needed for installation. The doors hook onto the hinges with special hinge pins and are reversible.



The special structure of the inner perimeter of the box ensures further protection against the penetration of water. The box is supplied with a spirit level.

Basic configuration - Gemini switchboards

Boxes and doors

- Available in 6 sizes
- Single order code combined with box and transparent and opaque door
- Pack with door dismounted and wrapped separately
- Door designed so that it can be hooked onto hinges at both vertical sides and mounted without the use of tools
- To be mounted to the wall using internal holes or fixing brackets supplied as accessories
- Door opening at an angle of more than 180°
- RAL 7035 grey color
- Doors supplied with 2 standard double bit locks (3 for sizes 5 and 6) that can be replaced with locks for ciphered key or with square/triangular impression (the standard triplex key is suitable for use with three types of impressions).

Transparent door

Size	External		Modules Code		Code	Unit/Pack
	Dimensions WxHxD (mm)	Internal WxHxD (mm)	Max No. DIN mod.	No. vertical mod. (H=150 mm)		
1	335x400x210	250x300x180	24 (12x2)	2	1SL0211A00	1/1
2	460x550x260	375x450x230	54 (18x3)	3	1SL0212A00	1/1
3	460x700x260	375x600x230	72 (18x4)	4	1SL0213A00	1/1
4	590x700x260	500x600x230	96 (24x4)	4	1SL0214A00	1/1
5	590x855x360	500x750x330	120 (24x5)	5	1SL0215A00	1/1
6	840x1005x360	750x900x330	216 (36x6)	6	1SL0216A00	1/1

Transparent door switchboard



Opaque door

Size	External		Modules		Code	Unit/Pack
	Dimensions WxHxD (mm)	Internal WxHxD (mm)	Max No. DIN mod.	No. vertical mod. (H=150 mm)		
1	335x400x210	250x300x180	24 (12x2)	2	1SL0201A00	1/1
2	460x550x260	375x450x230	54 (18x3)	3	1SL0202A00	1/1
3	460x700x260	375x600x230	72 (18x4)	4	1SL0203A00	1/1
4	590x700x260	500x600x230	96 (24x4)	4	1SL0204A00	1/1
5	590x855x360	500x750x330	120 (24x5)	5	1SL0205A00	1/1
6	840x1005x360	750x900x330	216 (36x6)	6	1SL0206A00	1/1

Opaque door switchboard

Basic configuration - Gemini switchboards



Single box



Transparent door



Opaque door

Single boxes

Size	External		Code	Unit/Pack
	dimensions WxHxD (mm)	Internal WxHxD (mm)		
1	335x400x210	250x300x180	1SL0221A00	1/1
2	460x550x260	375x450x230	1SL0222A00	1/1
3	460x700x260	375x600x230	1SL0223A00	1/1
4	590x700x260	500x600x230	1SL0224A00	1/1
5	590x855x360	500x750x330	1SL0225A00	1/1
6	840x1005x360	750x900x330	1SL0226A00	1/1

Single doors

Transparent door

Size	Box dimensions WxHxD (mm)	Code	Unit/Pack
1	335x400x210	1SL0241A00	1/1
2	460x550x260	1SL0242A00	1/1
3	460x700x260	1SL0243A00	1/1
4	590x700x260	1SL0244A00	1/1
5	590x855x360	1SL0245A00	1/1
6	840x1005x360	1SL0246A00	1/1

Opaque door

Size	Box dimensions WxHxD (mm)	Code	Unit/Pack
1	335x400x210	1SL0231A00	1/1
2	460x550x260	1SL0232A00	1/1
3	460x700x260	1SL0233A00	1/1
4	590x700x260	1SL0234A00	1/1
5	590x855x360	1SL0235A00	1/1
6	840x1005x360	1SL0236A00	1/1

Door with handle

Transparent door with handle

Size	Box dimensions WxHxD (mm)	Code	Unit/Pack
3	460x700x260	1SLM006600A0243	1/1
4	590x700x260	1SLM006600A0244	1/1
5	590x855x360	1SLM006600A0245	1/1
6	840x1005x360	1SLM006600A0246	1/1

Opaque door with handle

Size	Box dimensions WxHxD (mm)	Code	Unit/Pack
3	460x700x260	1SLM006600A0233	1/1
4	590x700x260	1SLM006600A0234	1/1
5	590x855x360	1SLM006600A0235	1/1
6	840x1005x360	1SLM006600A0236	1/1



Components for automation applications

Gemini switchboards are designed to be perfectly compatible with ABB components for low voltage control and monitoring. For these applications they can be equipped with modular devices belonging to the System pro M range, with Tmax moulded-case circuit-breakers and control and signaling devices, creating a truly integrated automation system. When deciding the Gemini layout for control and monitoring applications, not only is it possible to select the box and door in the required size, but you can also select the base plate in one of the three versions in the range. After wiring with the ducts and the Fix-O-Rapid device, the special standard adjustable feet and hooks must be fitted onto the base plate, allowing it to be inserted inside the box at up to seven different depths and three further levels of adjustment: no tools need to be used to carry out these operations. To finish the job, the inner door can be mounted (reversible and in insulating material), guaranteeing IP30 degree of protection when the switchboard door is open. No tools are needed unless the inner door is equipped with buttons, warning lights, etc.



The fixing hooks and feet supplied in the standard versions are applied without having to use tools, making it possible to install the base plate at seven different depths inside the switchboard. They can also be adjusted at three further positions. Application of the inner door guarantees IP30 degree of protection when the switchboard door is open.



Example of the configuration of a switchboard for an automation application: some ABB control and protection devices are installed on the plate. The inner door is fitted with light-signaling devices.

Components for automation applications

Base plates

- Available in three versions in blank or drilled metal and insulating material
- Positioning at 3 different depths for size 1, 4 different depths for sizes 2-3-4 and 7 different depths for sizes 5-6 (adjustments with 30 mm pitch)
- Supplied with feet and hooks adjustable at three further positions (with 7.5 mm pitch)
- Snap-on mounting
- Plates can also be mounted directly on the base with the special kit.

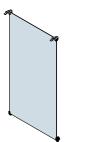
Blank metal

Size of the switchboard	Code	Unit/Pack
1	1SL0259A00	1/6
2	1SL0260A00	1/6
3	1SL0261A00	1/4
4	1SL0262A00	1/4
5	1SL0263A00	1/4
6	1SL0264A00	1/2

Blank metal base plate



Drilled metal base plate



Insulating material base plate

Drilled metal

Size of the switchboard	Code	Unit/Pack
1	1SL0275A00	1/6
2	1SL0276A00	1/6
3	1SL0277A00	1/4
4	1SL0278A00	1/4
5	1SL0279A00	1/4
6	1SL0280A00	1/2

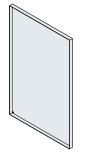
Insulating material

Size of the switchboard	Code	Unit/Pack
1	1SL0267A00	1/6
2	1SL0268A00	1/6
3	1SL0269A00	1/4
4	1SL0270A00	1/4
5	1SL0271A00	1/4
6	1SL0272A00	1/2

Description	Code	Unit/Pack
Base mounting kit for metal plate	1SL0383A00	1/10



Components for automation applications

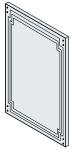


Inner doors

- Made in insulating material
- IP30 degree of protection with door open
- Designed so that door can be hinged onto both vertical sides
- Snap-on mounting and fixing

Size of the switchboard	Code	Unit/Pack
1	1SL0251A00	1/4
2	1SL0252A00	1/4
3	1SL0253A00	1/2
4	1SL0254A00	1/2
5	1SL0255A00	1/2
6	1SL0256A00	1/1

Inner door, sizes 1-2



Inner door, sizes 3-4-5-6

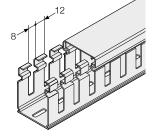
Components for automation applications

Wiring ducts

- Made in self-extinguishing thermoplastic material (UL 94 V0), resistant to abnormal heat and fire up to 960 °C (IEC 695-2-1)
- RAL 7030 grey color
- Available in version with 8/12 mm and 4/6 mm slots
- Base strip designed to snap onto Fix-O-Rapid
- Available in standard lengths of 2 m

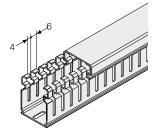
With 8/12 mm slots

Dimensions WxH (mm)	Code	Weight (kg/m)	Unit/ Pack- meters
15x17	05 019	0,06	46
25x30	05 033	0,21	58
25x40	05 043	0,25	48
25x60	05 063	0,24	34
25x80	05 083	0,29	28
25x100	05 094	0,46	20
40x30	05 035	0,27	40
40x40	05 045	0,31	30
40x60	05 065	0,34	22
40x80	05 085	0,38	36
40x100	05 095	0,53	28
60x30	05 037	0,38	52
60x40	05 047	0,46	40
60x60	05 067	0,47	32
60x80	05 087	0,50	24
60x100	05 096	0,73	20
80x40	05 049	0,47	32
80x60	05 069	0,52	24
80x80	05 089	0,59	16
80x100	05 097	0,91	14
100x40	05 051	0,55	24
100x60	05 071	0,59	20
100x80	05 091	0,68	16
100x100	05 098	1,06	8
120x40	05 053	0,65	20
120x60	05 073	0,73	14
120x80	05 093	0,89	12
150x100	05 099	1,37	8



Wiring duct with 8/12 mm slot

Components for automation applications



Wiring duct with 4/6 mm slot

Dimensions WxH (mm)	Code	Weight (kg/m)	Unit/ Pack- meters
15x17	05 119	0,06	46
25x30	05 133	0,21	58
25x40	05 143	0,25	48
25x60	05 163	0,24	34
25x80	05 183	0,29	28
25x100	05 194	0,46	20
40x30	05 135	0,27	40
40x40	05 145	0,31	30
40x60	05 165	0,34	22
40x80	05 185	0,38	36
40x100	05 195	0,53	28
60x30	05 137	0,38	52
60x40	05 147	0,46	40
60x60	05 167	0,47	32
60x80	05 187	0,50	24
60x100	05 196	0,73	20
80x40	05 149	0,47	32
80x60	05 169	0,52	24
80x80	05 189	0,59	16
80x100	05 197	0,91	14
100x40	05 151	0,55	24
100x60	05 171	0,59	20
100x80	05 191	0,68	16
100x100	05 198	1,06	8
120x40	05 153	0,65	20
120x60	05 173	0,73	14
120x80	05 193	0,89	12
150x100	05 199	1,37	8

Fix-O-Rapid

Rapid mounting device for attaching wiring ducts to the base plate: it snaps onto the plate after drilling a Ø 7 mm hole. Two Fix-O-Rapid devices are enough for each wiring duct section. Fix-O-Rapid guarantees maximum insulation since it does not involve the use of any metal component inside the wiring duct. If the wrong wiring duct is selected, it can be dismounted and a version with the same base and a different height can be attached to the Fix-O-Rapid.

Description	Code	Unit/ Pack-no. pieces
Rapid mounting device for wiring duct, W 25 mm	05 270	20/600
Rapid mounting device for wiring duct, W 40 mm	05 272	20/600
Rapid mounting device for wiring duct, W 60 mm	05 274	20/600
Rapid mounting device for wiring duct, W 80 mm	05 276	20/240
Rapid mounting device for wiring duct, W 100 mm	05 278	20/240
Rapid mounting device for wiring duct, W 120 mm		20/240
Rapid mounting device for wiring duct, W 150 mm	05 282	20/240



Components for distribution and mixed applications

In distribution and mixed applications, the Gemini switchboard is designed to be fitted with System pro M modular devices and Tmax moulded-case circuit breakers. The frame is the load-bearing element of the configuration: DIN rails, partial modular plates and the special Tmax mounting and cabling kits are snapped onto the uprights.

All the components can be adjusted to six different depths with a pitch of 12.5 mm and arranged at heights with standard installation pitch of 150, 225 and 300 mm and a distance of 75 mm between the rows. Blank or drilled front panels are applied to protect the equipment and these can be hinged onto both sides; the cables are housed inside the vertical wiring duct integrated in the uprights according to an exclusive ABB patent. Wiring is carried out by pulling out the frame and working from the front; the ergonomic grip and the standard feet and snap-on hooks supplied make it easy to insert it inside the switchboard after the job is finished.



The DIN rail is supplied with special hooks already in position for attaching to the uprights.



The upright with the incorporated wiring duct is an exclusive ABB patent that rationalizes the path of cables inside the switchboard.



The depth at which the DIN rail, the modular plates, the kit for fixing the Tmax circuit breakers and the wiring duct are positioned can be adjusted with a simple sliding movement.



The frame can be extracted to make wiring operations easier at the workbench.



The blank and drilled panels are hinged onto both sides; the description of the installed components can be kept in the special compartment protected by a transparent, hinged flange.





Fixing hooks and feet allow the frame to be snap-mounted inside the box.

Components for distribution and mixed applications



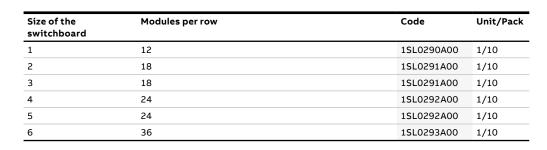
Uprights

- Incorporated vertical wiring duct (ABB patent)
- Snap-on mounting of all components (installation pitch of 75 mm)
- Snap-on insertion into box
- Depth of installed components adjusted at a pitch of 12.5 mm (4 positions for uprights of size 1 and 6 positions for the remaining ones)
- Ergonomic grip to make it easy to insert and extract

Size of the switchboard	Code	Unit/Pack
1	1SL0283A00	1/4
2	1SL0284A00	1/4
3	1SL0285A00	1/4
4	1SL0285A00	1/4
5	1SL0286A00	1/2
6	1SL0287A00	1/1

DIN rails

- Two-sided version
- Supplied with mounting supports that snap onto uprights
- Depth adjustment on uprights
- Designed so that rapid Unifix L mounting bars can be snapped on





Components for distribution and mixed applications

Drilled panels

- Supplied with DIN rail complete with supports to snap onto uprights and adjustable in depth
- Available in 1 module (H 150 mm) and 1+1/2 module (H 225 mm, sizes 2-6) dimensions
- Designed to be hinged onto both vertical sides
- Snap-on mounting onto uprights (in compliance with reference Standards a tool must be used for removing the panel)
- Document pocket for storing descriptions of installed devices

1 module

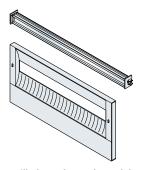
Size of the switchboard	Code			
1	1SL0307A00	1/8		
2	1SL0308A00	1/8		
3	1SL0308A00	1/8		
4	1SL0309A00	1/4		
5	1SL0309A00	1/4		
6	1SL0310A00	1/2		

1 + 1/2 module

Size of the switchboard	Code		
2	1SL0313A00	1/8	
3	1SL0313A00	1/8	
4	1SL0314A00	1/4	
5	1SL0314A00	1/4	
6	1SL0315A00	1/2	



Drilled panel, 1 module



Drilled panel, 1 + 1/2 module

Components for distribution and mixed applications

Blank panels

- Available in 1/2 module (H 75 mm), 1 module (H 150 mm) and 2 modules (H 300 mm) dimensions
- H 150 mm and H 300 panels designed to be hinged onto both vertical sides
- Snap-on mounting onto uprights (in compliance with reference Standards a tool must be used for removing the panel)

1/2 module

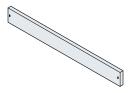
Size of the switchboard	Code	Unit/Pack	
1	1SL0318A00	1/10	
2	1SL0319A00	1/10	
3	1SL0319A00	1/10	
4	1SL0320A00	1/6	
5	1SL0320A00	1/6	
6	1SL0321A00	1/4	

1 module

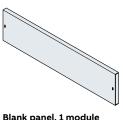
Size of the switchboard	Code	Unit/Pack	
1	1SL0324A00	1/8	
2	1SL0325A00	1/8	
3	1SL0325A00	1/8	
4	1SL0326A00	1/4	
5	1SL0326A00	1/4	
6	1SL0327A00	1/4	

2 modules

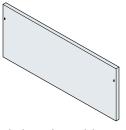
Size of the switchboard	Code	Unit/Pack	
1	1SL0330A00	1/6	
2	1SL0331A00	1/6	
3	1SL0331A00	1/6	
4	1SL0332A00	1/4	
5	1SL0332A00	1/4	
6	1SL0333A00	1/4	



Blank panel, 1/2 module



Blank panel, 1 module



Blank panel, 2 modules

Components for distribution and mixed applications

Partial modular plates

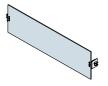
- Available in 1 module (H 150 mm) and 2 module (H 300 mm, sizes 2-6) dimensions
- Snap-on mounting onto uprights with depth adjustment.

1 module

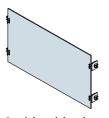
Size of the switchboard	Code	Unit/Pack	
1	1SL0296A00	1/6	
2	1SL0297A00	1/4	
3	1SL0297A00	1/4	
4	1SL0298A00	1/4	
5	1SL0298A00	1/4	
6	1SL0299A00	1/2	

2 modules

Size of the switchboard	Code	Unit/Pack	
2	15L0302A00	1/4	
3	1SL0302A00	1/4	
4	1SL0303A00	1/4	
5	1SL0303A00	1/4	
6	1SL0304A00	1/2	



Partial modular plate, 1 module



Partial modular plate, 2 modules

Components for distribution and mixed applications

Kit for installing Tmax XT moulded-case circuit breakers

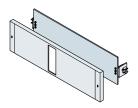
- For installing Tmax XT moulded-case circuit breakers in fixed version with front terminals
- Composed of a plate with special drilled holes and a protection panel with vertical slots that can be hinged on both sides and snap-on mounted (in compliance with reference Standards a tool must be used for removing the panel)
- Available for sizes 2-6
- Snap-on mounting onto uprights with the possibility of adjusting the plate depth

H 150 mm

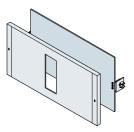
Size of the switchboard	Code	Unit/Pack
2	1SL0373A00	1/4
3	1SL0373A00	1/4
4	1SL0374A00	1/4
5	1SL0374A00	1/4
6	1SL0375A00	1/2

H 300 mm

Size of the switchboard	Code	Unit/Pack
2	1SL0376A00	1/4
3	1SL0376A00	1/4
4	1SL0377A00	1/4
5	1SL0377A00	1/4
6	1SL0378A00	1/2



H 150 mm



H 300 mm

Components for distribution and mixed applications

Size	Installation	XT1				XT2				ХТЗ				XT4			
		3р	4p	3p D	4p D	Зр	4p	3p D	4p D	3р	4p	3p D	4p D	Зр	4p	3p D	4p D
1	D																
	01			-				-									
	Т			-												-	
2	D			-		•				•						-	
	K1																
	К2											-					
	01							-				-				-	
	02					•		-		•		-		•		-	
	Т					•		-		•		-		•		-	
3	D					•		-				-		•		-	
	K1																
	К2											-					
	01							-				-				-	
	02							-				-				-	
	т					•										•	
4	D		-				-								-		
	K1																
	К2																
	01						-				-				-		
	02						-								-		
	Т		-				-				-	-			-	-	
5	D											-				-	
	K1		-														
	К2																
	01						-										
	02											-				-	
	Т															•	
6	D					•				•				•		•	
	К1																
	К2									•		•					
	01					•				•		•		•		•	
	02					•				•		•		•			
	т																

Caption - D, installation on DIN rail

- K1, installation with Tmax kit H = 150 (holes made)

- K2, installation with Tmax kit H = 300 (holes made)

- O1, installation on modular plate (1 module, H = 150 mm)

O2, installation on modular plate (2 modules, H = 300 mm)
T, installation on total base plate

22

Unit/Pack

1/4

Code

1SL0353A00

General purpose enclosures

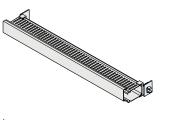
Components for distribution and mixed applications

Wiring kits

1

- omposed of wiring duct in versions 25x60 mm and 40x60 mm (WxH, 8-12 mm slots) and Fix-O-Rapid
- Snap-on mounting on uprights with depth adjustment

Wiring duct 25x60 mm Size of the switchboard





Wiring duct 40x60 mm

Size of the switchboard	Code			
1	1SL0360A00	1/4		
2	1SL0361A00	1/4		
3	1SL0361A00	1/4		
4	1SL0362A00	1/4		
5	1SL0362A00	1/4		
6	1SL0363A00	1/4		



Wiring kit

Accessories

Gemini switchboards have the same accessories for both automation and distribution applications, ensuring maximum versatility and integration of functions. In particular, the ventilation and anti-condensation kits make it even safer for the devices to run, protecting them from the effects of heat and humidity while the wall brackets, pole mounting kit and pedestal make it easier to install the switchboards in any context. Three different kinds of locks are supplied for the doors with which it is possible to replace the standard double bit model. The universal drill bit can be used to open the side branch connections. Module covers hide the unused modules of the DIN rail guaranteeing IP40 protection when the door is open in distribution and mixed configurations.





The standard locks supplied can be replaced by the version with ciphered key and handle or with square or triangular impression.





Gemini wall-mounted installation using the special mounting brackets.



The fact that Gemini switchboards can also be pole-mounted (see photo above) or mounted on a special pedestal (see photo at the side) makes them suitable for any application situation.

Accessories



Locks



Plastic wall brackets



Stainless steel wall brackets



Pole mounting kit





Locks

Available in three versions with ciphered key and handle, with triangular and square impressions.

Description	Code	Unit/Pack
Lock with Yale type ciphered key and handle	1SL0340A00	1/10
Lock with triangular impression	1SL0341A00	1/10
Lock with square impression	1SL0339A00	1/10
Tamper-proof locking kit (code 1SLO340A00 included)	1SL0458A00	1/10
Gemini standard lock	1SL0459A00	1/10

Locks for doors with handle

Description	Code	Unit/Pack
Yale Lock for door with handle	1SLM006600A0459	1/5
Ronis 455 lock for door with handle	1SLM006600A0460	1/5

Mounting elements

Guarantee optimum wall, pole and floor mounting conditions.

Description	Code	Unit/Pack	
Horizontal and vertical plastic wall brackets (4 pieces)*	1SL0342A00	1/10	
Horizontal and vertical plastic wall brackets UL listed (4 pieces)	1SLM006600A0342	1/10	
Horizontal and vertical stainless steel wall brackets (4 pieces)	1SL0401A00	1/10	
Pole mounting kit for sizes 1 switchboards**	1SL0343A00	1/4	
Pole mounting kit for sizes 2-3 switchboards**	1SL0344A00	1/4	
Pole mounting kit for sizes 4-5 switchboards**	1SL0345A00	1/2	
Pole mounting kit for size 6 switchboards**	1SL0346A00	1/2	
IP43 Floor mounting pedestal for sizes 1-4	1SL0352A00	1/1	

* There are two types of inserts for adapting brackets to Ø 6 e 8 mm fixing devices.

** The kit includes two elements for fixing the upper and the lower part of the switchboard.

Pedestals

.

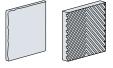
Allows the application of the Gemini switchboard to the ground without the need to prepare the construction of concrete footings or foundations when the pedestal is buried.

Description	Code	Unit/Pack
Pedestal Gemini size 4	1SL0464A00	1/1
Pedestal Gemini size 5	1SL0465A00	1/1
Pedestal Gemini size 6	1SL0466A00	1/1

Accessories

IP21/54 ventilation kits

- Composed of plastic grills and filter to ensure switchboard ventilation.
- Degree of protection without filter: IP21.
- Degree of protection with filter: IP54.
- Preassembled seal.



Description Dimensions Code Unit/Pack (mm) Grid + air flow kit 105x105 EN0105K 1/1Grid + air flow kit (not suitable for size. 1) 150x150 EN0150K 1/1 EN0204K Grid + air flow kit (not suitable for size. 1) 204x204 1/1

Note: screws not included; use 4 self lock screws 2,9x13 or ask for order code 1SL0384A00.

Base covers

For aesthetic as well as functional purposes, in particular for pedestal installations.

Size of the switchboard	Code	Unit/Pack
1	1SL0385A00	1/4
2	1SL0386A00	1/4
3	1SL0387A00	1/2
4	1SL0388A00	1/2
5	1SL0389A00	1/2
6	1SL0390A00	1/2

Coupling kits

It follows the aesthetic outline of the boxes.

Description	Code	Unit/Pack
Vertical coupling kit for sizes 2-3 switchboards	1SL0413A00	1/2
Vertical coupling kit for sizes 4 switchboards	1SL0414A00	1/2
Vertical coupling kit for sizes 5 switchboards	1SL0415A00	1/2
Vertical coupling kit for sizes 6 switchboards	1SL0416A00	1/2

Ventilation kit



Base cover



Coupling kit

Accessories

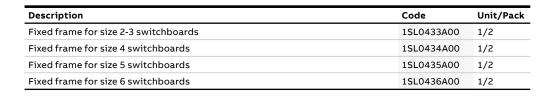
Bottom bases H 30

For fixing the Gemini switchboard directly to the floor.

Description	Code	Unit/Pack
Bottom base for size 2-3 switchboards	1SL0423A00	1/2
Bottom base for size 4 switchboards	1SL0424A00	1/2
Bottom base for size 5 switchboards	1SL0425A00	1/2
Bottom base for size 6 switchboards	1SL0426A00	1/2

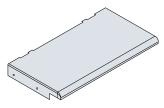
Fixed frames

- In combination with bottom base H 30 $\,$
- For fixing onto poured concrete floors and bases.



Fixed frame

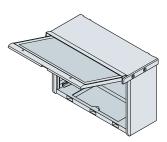
Bottom base



Integral cover

Integral covers

Description	Code	Unit/Pack
Integral cover for size 1 switchboard	1SL0451A00	1/1
INtegral cover for size 2-3 switchboard	1SL0452A00	1/1
Integral cover for size 4 switchboard	1SL0454A00	1/1
Integral cover for size 5switchboard	1SL0455A00	1/1
Integral cover for size 6 switchboard	1SL0456A00	1/1



Horizontal Kits

Kit for a proper opening of switchboard upward.

Description	Code	Unit/Pack
Horizontal Kit Gemini size 3	1SL0470A00	1/1
Horizontal Kit Gemini size 4	1SL0471A00	1/1
Horizontal Kit Gemini size 5	1SL0472A00	1/1

22

Horizontal Kit Gemini

Module covers

Accessories



Anti-condensation kits

- Kit in special material to prevent condensation from forming inside the switchboard: it include **GORE™** MEMBRANE VENTING
- Impermeable to water (pressure): 0.6 bar / 60 sec.
- Air flow: 400 ml/min. (dp = 70 mbar)
- 1 kit for sizes 1-2, 2 kits for sizes 3-4 and 3 kits for sizes 5-6 are recommended to guarantee adequate dissipation; in any case the number of kits to be installed depend on the number and type of devices installed inside the switchboard.
- IP66

Description	Code	Unit/Pack
Anti-condensation kit	1SL0351A00	1/6

Other accessories



Universal drill bit



Spacer

Description	Code	Unit/Pack
Universal drill bit	12894	1/30
Module covers in RAL 7035 grey, 4 modules	12863	25/300
Plastic spacer for installing modular devices and moulded-case circuit breakers at the same depth	12851	10/60
Small bag plate mounting kit	1SL0383A00	1/10
Small bag for ventilation kit	1SL0384A00	10/50

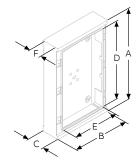
Temperature management IP20 heater

		Dimensions (mm)			Package/ No. of
Description	н	w	D	 Code	
Anti-condensation heater 30W, 110-240 Vac-dc	115	42	42	VA7930	1/1
Anti-condensation heater 50W, 110-240 Vac-dcc	165	42	42	VA7950	1/1
Anti-condensation heater 75W, 110-240 Vac-dc	210	42	42	VA7975	1/1
Anti-condensation heater 100W, 110-240 Vac-dc	165	42	51	VA7910	1/1
Anti-condensation heater 150W, 110-240 Vac-dc	146	82	51	VA7915	1/1
Anti-condensation heater with fan 300W, 230 Vac-dc	148	82	91	VA8300	1/1

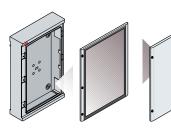
For technical details, see page 50.

Fast selection table

Basic configuration

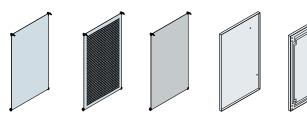






Size	No. of installable DIN modules	No. of vertical mod.	Exter dimer	nal nsions		Inter dime	nal nsions		Complete swi	tchboard	Вох	Door	
_	(mod. x row)	(H=150 mm)	Α	в	с	D	E	F	Trasparent door	Opaque door		Transparent	Opaque
1	24 (12x2)	2	400	335	210	300	250	180	1SL0211A00	1SL0201A00	1SL0221A00	1SL0241A00	1SL0231A00
2	54 (18x3)	3	550	460	260	450	375	230	1SL0212A00	1SL0202A00	1SL0222A00	1SL0242A00	1SL0232A00
3	72 (18x4)	4	700	460	260	600	375	230	1SL0213A00	1SL0203A00	1SL0223A00	1SL0243A00	1SL0233A00
4	96 (24x4)	4	700	590	260	600	500	230	1SL0214A00	1SL0204A00	1SL0224A00	1SL0244A00	1SL0234A00
5	120 (24x5)	5	855	590	360	750	500	330	1SL0215A00	1SL0205A00	1SL0225A00	1SL0245A00	1SL0235A00
6	216 (36x6)	6	1005	840	360	900	750	330	1SL0216A00	1SL0206A00	1SL0226A00	1SL0246A00	1SL0236A00

Components for automation



Size	Base plate			Inner door	
	Blank	Drilled	Insulating	Former version	New version
1	1SL0259A00	1SL0275A00	1SL0267A00	1SL0251A00	-
2	1SL0260A00	1SL0276A00	1SL0268A00	1SL0252A00	-
3	1SL0261A00	1SL0277A00	1SL0269A00	-	1SL0253A00
4	1SL0262A00	1SL0278A00	1SL0270A00	-	1SL0254A00
5	1SL0263A00	1SL0279A00	1SL0271A00	-	1SL0255A00
6	1SL0264A00	1SL0280A00	1SL0272A00	-	1SL0256A00



Accessories for distribution

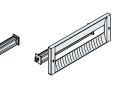
Wiring ducts	Fix-O-Rapid	
See pages 22/18 - 22/19	See page 22/19	

5

Fast selection table

Components for automation

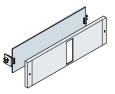








Size	Uprights	DIN rail	Drilled panel		Blank panel			Modular plate	
			H=150 mm	H=225 mm	H=75 mm	H=150mm	H=300 mm	H=150 mm	H=300 mm
1	1SL0283A00	1SL0290A00	1SL0307A00	-	1SL0318A00	1SL0324A00	1SL0330A00	1SL0296A00	-
2	1SL0284A00	1SL0291A00	1SL0308A00	1SL0313A00	1SL0319A00	1SL0325A00	1SL0331A00	1SL0297A00	1SL0302A00
3	1SL0285A00	1SL0291A00	1SL0308A00	1SL0313A00	1SL0319A00	1SL0325A00	1SL0331A00	1SL0297A00	1SL0302A00
4	1SL0285A00	1SL0292A00	1SL0309A00	1SL0314A00	1SL0320A00	1SL0326A00	1SL0332A00	1SL0298A00	1SL0303A00
5	1SL0286A00	1SL0292A00	1SL0309A00	1SL0314A00	1SL0320A00	1SL0326A00	1SL0332A00	1SL0298A00	1SL0303A00
6	1SL0287A00	1SL0293A00	1SL0310A00	1SL0315A00	1SL0321A00	1SL0327A00	1SL0333A00	1SL0299A00	1SL0304A00



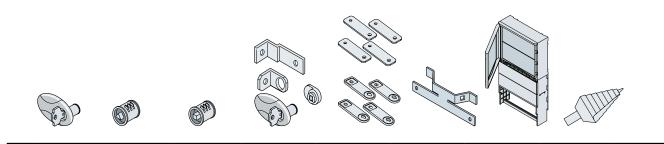


Accessories for distribution

Size	Kit for Tmax XT		x-O-Rapid kit v	x-O-Rapid kit with wiring duct		
	H. 150 mm	H. 300 mm	25x60 mm	40x60 mm	RAL 7035	
1	-	-	1SL0353A00	1SL0360A00	12863	
2	1SL0373A00	1SL0376A00	1SL0354A00	1SL0361A00		
3	1SL0373A00	1SL0376A00	1SL0354A00	1SL0361A00		
4	1SL0374A00	1SL0377A00	1SL0355A00	1SL0362A00		
5	1SL0374A00	1SL0377A00	1SL0355A00	1SL0362A00		
6	1SL0375A00	1SL0378A00	1SL0356A00	1SL0363A00		

Fast selection table

Accessories common to the whole range



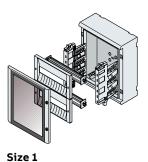
Size	Lock with handle	Lock with triangular impression	Lock with square impression	Anti tampering locking kit	Mounting brackets	Pole installation kit	Pedestal	Universal drill bit	Base mounting kit for metal and insulated plates
1	1SL0340A00	1SL0341A00	1SL0339A00	1SL0458A00	See pag. 22/29	1SL0343A00	-	12894	1SL0383A00
2						1SL0344A00	-		
3						1SL0344A00	-		
4						1SL0345A00	1SL0464A00		
5						1SL0345A00	1SL0465A00		
6	_					1SL0346A00	1SL0466A00		



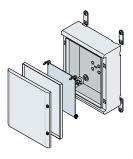
Size	Ventilation kit	Base cover	Anti condensa- tion kit	Floor ped- estal	Coupling kit	Bottom base H 30	Fixed frame	Integral cover	Depth adapter	Horizontal kit
1	See page	1SL0385A00	1SL0351A00	1SL0352A00	-	-	-	1SL0451A00	12851	-
2	22/30	1SL0386A00			1SL0413A00	1SL0423A00	1SL0433A00	1SL0452A00		1SL0470A00
3	_	1SL0387A00			1SL0413A00	1SL0423A00	1SL0433A00	1SL0452A00	_	1SL0471A00
4		1SL0388A00			1SL0414A00	1SL0424A00	1SL0434A00	1SL0454A00		
5		1SL0389A00		-	1SL0415A00	1SL0425A00	1SL0435A00	1SL0455A00		1SL0472A00
6		1SL0390A00		-	1SL0416A00	1SL0426A00	1SL0436A00	1SL0456A00		

Configurations examples

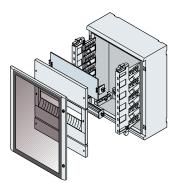
The selection of components for the configuration of Gemini switchboards depends on the space available and the type of application. Two examples for each size are given below.



Distribution	
Box + transparent door	1SL0211A00
Uprights	1SL0283A00
1-mod. drilled panel + DIN rail	1SL0307A00 (x2)

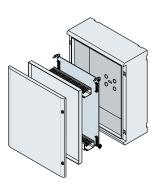


Automation						
Box + opaque door	1SL0201A00					
Metal base plate	1SL0259A00					
Inner door	1SL0251A00					
Wall-mounting brackets	1SL0342A00					



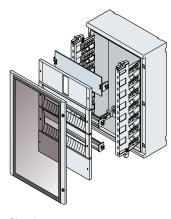
Size 2

Distribution/Mixed						
Box + transparent door	1SL0212A00					
Uprights	1SL0284A00					
Modular plate 1 mod.	1SL0297A00					
Blank panel 1 mod.	1SL0325A00					
Drilled panel 1+1/2 mod. + DIN rail	1SL0313A00					
Blank panel 1/2 mod.	1SL0319A00					
Module covers	12863					



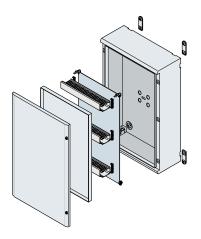
Automation	
Box + opaque door	1SL0202A00
Metal base plate	1SL0260A00
Inner door	1SL0252A00
Wiring duct	See pages 22/18 - 22/19
Fix-O-Rapid	See page 22/19

Configurations examples

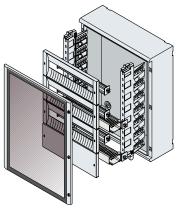


Size 3

Distribution/Mixed	
Box + transparent door	1SL0213A00
Uprights	1SL0285A00
Kit for Tmax	1SL0336A00
Drilled panel 1 mod. + DIN rail	1SL0308A00(x2)
DIN rail	1SL0291A00
Blank panel 1 mod.	1SL0325A00



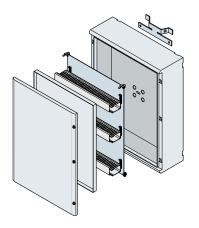
Automation	
Box + opaque door	1SL0203A00
Base insulating plate	1SL0269A00
Inner door	1SL0253A00
Wiring duct	See pages 22/18 - 22/19
Fix-O-Rapid	See page 22/19
Wall-mounting brackets	1SL0342A00



Taglia 4

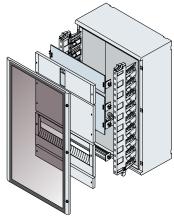
Distribution/Mixed

Distribution/ Mixed	
Box + transparent door	1SL0214A00
Uprights	1SL0285A00
Drilled panel 1 mod. + DIN rail	1SL0309A00 (x3)
Blank panel 1 mod.	1SL0326A00
Wiring kit 25x60 mm	1SL0355A00 (x2)
DIN rail	1SL0292A00
Module covers	12863



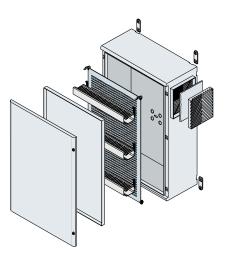
Automation	
Box + opaque door	1SL0204A00
Metal base plate	1SL0262A00
Inner door	1SL0254A00
Wiring duct	See pages 22/18 - 22/19
Fix-O-Rapid	See page 22/19
Fixing on pole kit	1SL0345A00

Configurations examples

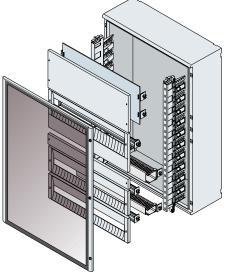


Size 5

Distribution/Mixed	
Box + transparent door	1SL0215A00
Uprights	1SL0286A00
Kit for Tmax	1SL0337A00
Modular plate 2 mod.	1SL0303A00
Blank panel 2 mod.	1SL0332A00
Drilled panel 1+1/2 mod.	1SL0314A00
Blank panel 1/2 mod.	1SL0320A00
Module covers	12863

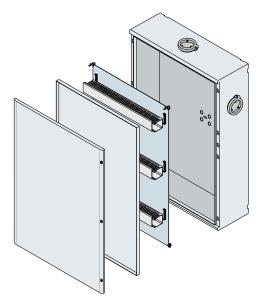


Automation	
Box + opaque door	1SL0205A00
Drilled base plate	1SL0279A00
Inner door	1SL0255A00
Wiring duct	See pages 22/18 - 22/19
Fix-O-Rapid	See page 22/19
Wall-mounting brackets	1SL0342A00
Ventilation kit	1SL0350A00



Size 6

Distribution/Mixed	
Box + transparent door	1SL0216A00
Uprights	1SL0287A00
Modular plate 2 mod.	1SL0304A00
Blank panel 2 mod.	1SL0333A00
Drilled panel 1+1/2 mod.	1SL0315A00
Blank panel 1/2 mod.	1SL0321A00
Drilled panel 1 mod.	1SL0310A00 (x2)
Wiring kit 25x60 mm	1SL0356A00
Wiring kit 40x60 mm	1SL0363A00



Automation	
Box + opaque door	1SL0206A00
Metal base plate	1SL0264A00
Inner door	1SL0256A00
Wiring duct	See pages 22/18 - 22/19
Fix-O-Rapid	See page 22/19
Triangular lock	1SL0341A00 (x3)
Anti-condensation kit	1SL0351A00 (x3)

Notes

General purpose enclosures General characteristics of SR2 Enclosures

The range of SR2 enclosures is a complete offer of monobloc enclosures for constructing small and medium-sized electric automation, switching and control switchboards.

The SR2 enclosures come from the experience ABB has gained over the years in building IP65 metal structures (in accordance with the IEC 60529 Standard), together with the innovative new production process used for construction and patented by ABB.

The typical use of SR2 Enclosures is to make switchgear and controlgear switchboards for a very wide variety of industrial machines: from large machinery with automated production lines or parts of these, down to the typical installations of on-board machine switchboards, boilers, heating plants and so on.

They conform to the EN 62208 Standard "Empty enclosures for low voltage protection switchgear and controlgear assemblies" and allow realization of electrical equipment conforming to the prescriptions of the IEC 60204-1 Standard "Safety of machinery. Electrical equipment of machines" and of the EN 60439-1 Standard and the new EN 61439-1-2 Standard "Low voltage protection switchgear and controlgear for assemblies". The degree of protection, in accordance with the IEC 60529 Standard "Degrees of protection of enclosures (IP Code)", is IP65. The SR2 enclosures have also passed the control required to obtain the UL (Underwriters Laboratories) and CSA (Canadian Standards Association) Type 12 marks.

The SR2 enclosures also allow secondary distribution switchboards to be made, thanks to the possibility, in the 400, 600 and 800 mm widths, of installing the whole range of apparatus and modular circuit-breakers on DIN rails combined with special pre-drilled and hinged modular front panels, thereby allowing construction of AS/ANS type electrical switchgear conforming to the IEC 60439-1 Standard and the new EN

61439-1-2 Standard. A single line of metalwork structures therefore allows construction of automation and secondary and end distribution electrical switchboards thanks to the availability of a series of accessories (modular panels, DIN rails) and to the possibility of stacking the enclosures.





General purpose enclosures General characteristics of SR2 Enclosures

The SR2 enclosures are available in two versions (blind door or glazed door) and in 23 different dimensions, as well as a further 19 combinations obtained by stacking the enclosures, up to a maximum height of 2000 mm, which guarantee ample selection possibilities for the various end applications.

The SR2 enclosures have been designed to fulfil all the typical needs of the builder or installer of switchgear in the best way possible and the user is presented with a unique ensemble of functional characteristics:

- wide dimensional range
- certified IP65 degree of protection
- internal galvanised sheet mounting plate with 20/10 thickness (made to allow threaded holes to be made easily), adjustable in depth by using a special accessory
- fairlead plate screwed on (at top and bottom) made of 15/10 thick galvanised sheet, with a sealing gasket applied inside
- complete reversibility of the enclosure, so the door can open either on the right or on the lefthand side
- possibility of installing all the apparatus and modular circuit-breakers on a DIN rail combined with a hinged modular panel

The standard colour is RAL 7035 orange peel. On request, the SR2 enclosures can be ordered in a wide range of RAL colours (see page 22/149).

Both the enclosures with glazed door or blind door can be stacked:

stacking is done simply by removing the fairlead plates and inserting the IP65 sealing gasket (GZ....), made of neoprene with closed cells.

Assembly of the stacked enclosures is carried out by means of the same holes used for the fairlead plates. The door is supplied with the enclosure (single code) so as to reduce the number of articles and assembly times.





General purpose enclosures General characteristics of SR2 Enclosures

The range is completed with a series of accessories: brackets for wall assembly, rain shield top cover, locks of various types, internal document pocket, spacers, and spray paint for touching up. It is possible floor fixing by means plinth.



Plastic document pocket, RAL 7035, size A4, the pocket is apply within the solid doors wider than 400 mm, with stickers provided.



Many closure systems can replace the standard closures of the external doors. The inserts are interchangeable and easily replaced by loosening a nut.



The brackets for wall mounting allows installation of the boxes on the wall using the holes located on the back of the enclosure.

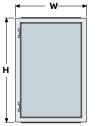


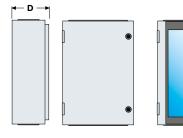
The bars, made of electrolytic copper with M6 threaded holes in 25 mm, can be mounted on mounting plates using the appropriate supports.

Technical characteristics		
Conformity with Standard		IEC 62208, IEC 61439-1-2
Degree of protection		IP65 (IEC 60529) UL Listed: UL 508A NEMA: Types 1, 3R, 12
Degree of mechanical strength		IK10 blind door
		IK09 glazed door
		(IEC 62262)
Certifications		
Type of material		Metallic
Installation site		Indoor/outdoor
Fixing method		floor/wall
Normal service conditions - ambient temperature		from –5 up to +40°C
Operating climate (t°/Ur%)	costant	23°C/83% - 40°C/93%
	variable	23°C/98% - 40°C/98%

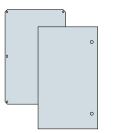
Selection table - SR2 enclosures

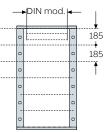
Quick selection table







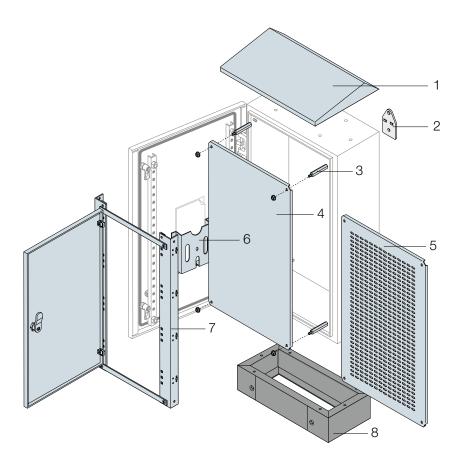


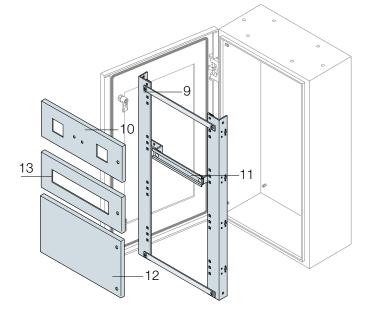


Overall dimensions		verall dimensions Enclosures		Kit for autom			Kit for distribution Supports for mounting modular panels			
H mm	W mm	D mm	Enclosures with blind door + back plate	with glazed door *	Blind counterdoor	Back plate	No. vertical mod. H=185mm	No. DIN mod. per row	Total modules	DIN Supports
300	200	150	SRN3215K				·			
	300		SRN3315K							
	400		SRN3415K							
400	300	150	SRN4315K							
	300	200	SRN4320K							
	400		SRN4420K							
	600		SRN4620K							
500	300	200	SRN5320K							
	400		SRN5420K	SRN5420VK*	KC5040K	PF5040	2	14	28	KD5040K
	400	250	SRN5425K	SRN5425VK*	KC5040K	PF5040	2	14	28	KD5040K
600	400	200	SRN6420K	SRN6420VK*	KC6040K	PF6040	3	14	42	KD6040K
	400	250	SRN6425K	SRN6425VK*	KC6040K	PF6040	3	14	42	KD6040K
	600		SRN6625K							
700	500	200	SRN7520K	SRN7520VK*	KC7050K	PF7050				
	500	250	SRN7525K	SRN7525VK*	KC7050K	PF7050				
800	600	250	SRN8625K	SRN8625VK*	KC8060K	PF8060	4	25	100	KD8060K
	600	300	SRN8630K	SRN8630VK*	KC8060K	PF8060	4	25	100	KD8060K
	800		SRN8830K							
1000	600	250	SRN10625K	SRN10625VK*	KC1060K	PF1060	5	25	125	KD1060K
	600	300	SRN10630K	SRN10630VK*	KC1060K	PF1060	5	25	125	KD1060K
	800		SRN10830K	SRN10830VK*	KC1080K	PF1080	5	36	180	KD1080K
1200	600	300	SRN12630K	SRN12630VK*	KC1260K	PF1260	6	25	150	KD1260K
	800		SRN12830K	SRN12830VK*	KC1280K	PF1280	6	36	216	KD1280K

* The mounting plate must be ordered separately.

Ordering codes - SR2 enclosures



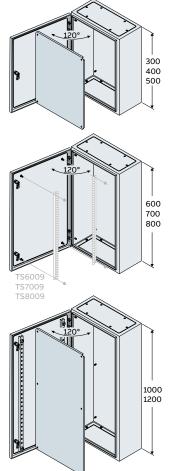


- 1 Spray protection roof
- 2 Wall-mounting brackets
- 3 Spacers for back plates
- 4 -Blind internal plate
- 5 Slotted internal plate
- 6 Document pocket
- 7 Counterdoor
- 8 Plinth
- 9 Frame for DIN rail
- 10 Modular panels for apparateus
- 11 DIN rail
- 12 Blind modular panels
- 13 Modular panel for DIN rail

Ordering codes - SR2 enclosures

SR2 Enclosures with blind door (internal plate included)

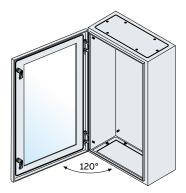
The enclosures with blind door, typically for making automation switchgear, are already fitted with the internal galvanised sheet mounting plate.



Dimensi	ons (mm)			Package/
н	w	D	Code	No. of pieces
300 (1)	200	150	SRN3215K	1/1
	300	150	SRN3315K	1/1
	400	150	SRN3415K	1/1
400 (1)	300	150	SRN4315K	1/1
	300	200	SRN4320K	1/1
	400	200	SRN4420K	1/1
	600	200	SRN4620K	1/1
500 (1)	300	200	SRN5320K	1/1
	400	200	SRN5420K	1/1
	400	250	SRN5425K	1/1
600	400	200	SRN6420K	1/1
	400	250	SRN6425K	1/1
	600	250	SRN6625K	1/1
700	500	200	SRN7520K	1/1
	500	250	SRN7525K	1/1
800	600	250	SRN8625K	1/1
	600	300	SRN8630K	1/1
	800	300	SRN8830K	1/1
1000*	600	250	SRN10625K	1/1
	600	300	SRN10630K	1/1
	800	300	SRN10830K	1/1
1200*	600	300	SRN12630K	1/1
	800	300	SRN12830K	1/1

 $^{(1)}$ The enclosures with height less or egual to 500mm hare only a closing box. * Plates height 1000 / 1200mm have six mounting points .

Ordering codes - SR2 enclosures



Enclosures with glazed door

The enclosures with glazed door are also used for distribution configurations. The internal equipment is made, alternatively, by selecting the special kits:

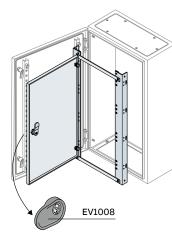
• KD... (Distribution Kit) consisting of a pair of functional uprights for assembly of the modular panels (to be ordered separately) and of any compensation panel.

The modular panels, which can also be installed on the enclosures with blind door with the help of the KD.. kit itself, are all hinged and have vertical modularity of 185 mm.

Enclosures with glazed door					
Dimensions (mm) Package/					
н	w	D	Code	No. of pieces	
500 (1)	400	200	SRN5420VK	1/1	
	400	250	SRN5425VK	1/1	
600	400	200	SRN6420VK	1/1	
	400	250	SRN6425VK	1/1	
700	500	200	SRN7520VK	1/1	
	500	250	SRN7525VK	1/1	
800	600	250	SRN8625VK	1/1	
	600	300	SRN8630VK	1/1	
1000	600	250	SRN10625VK	1/1	
	600	300	SRN10630VK	1/1	
	800	300	SRN10830VK	1/1	
1200	600	300	SRN12630VK	1/1	
	800	300	SRN12830VK	1/1	

 $^{\scriptscriptstyle (1)}$ The enclosures with height less or egual to 500mm hare only a closing box.

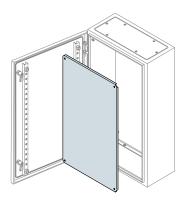
Ordering codes - SR2 enclosures



Blind counterdoor

The internal counterdoor guarantees IP20 degree of protection. Made of steel sheet 15/10mm thick, galvanized and painted orange peel RAL 7035 colour, complete with the EV1008 ergonomic box and insert with double tongue.

Dimensions	Dimensions (mm)		Package/
н	w	Code	No. of pieces
500	400	КС5040К	1/1
600	400	КС6040К	1/1
700	500	КС7050К	1/1
800	600	КС8060К	1/1
1000	600	КС1060К	1/1
1000	800	КС1080К	1/1
1200	600	KC1260K	1/1
1200	800	КС1280К	1/1

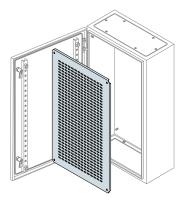


Blind internal mounting plate

Internal galvanised sheet mounting plate 20/10mm thick complete with fixing with small items provided. Possibility of adjusting the depth with the help of a special spacer kit (to be ordered separately).

Blind back plate for enclosure						
Dimensions (mm)		usions (mm)				
300	200	PF3020	pieces			
300	300	PF3030	1/1			
300	400	PF3040	1/1			
400	300	PF4030	1/1			
400	400	PF4040	1/1			
400	600	PF4060	1/1			
500	300	PF5030	1/1			
500	400	PF5040	1/1			
600	400	PF6040	1/1			
600	600	PF6060	1/1			
700	500	PF7050	1/1			
800	600	PF8060	1/1			
800	800	PF8080	1/1			
1000	600	PF1060	1/1			
1000	800	PF1080	1/1			
1200	600	PF1260	1/1			
1200	800	PF1280	1/1			

Ordering codes - SR2 enclosures



Slotted internal mounting plate

Fixing with small items provided. Possibility of adjusting the depth with the help of a special spacer kit (to be ordered separately).

Dimensions (mm)			Package/
w	н	Code	No. of pieces
200	300	TQ3020	1/1
300	300	TQ3030	1/1
400	300	TQ3040	1/1
300	400	TQ4030	1/1
400	400	TQ4040	1/1
600	400	TQ4060	1/1
300	500	TQ5030	1/1
400	500	TQ5040	1/1
400	600	TQ6040	1/1
600	600	TQ6060	1/1
500	700	TQ7050	1/1
600	800	TQ8060	1/1
800	800	TQ8080	1/1
600	1000	TQ1060	1/1
800	1000	TQ1080	1/1
600	1200	TQ1260	1/1
800	1200	TQ1280	1/1

Clip nuts

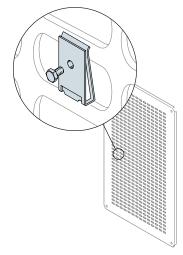
For slotted plates with M6x10mm hexagonal head screws.

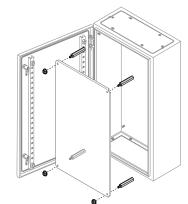
Description	Code	Package/ No. of pieces
No.20 clip nuts	TQ6610	1/20

Spacer Kit for adjusting the depth of the back plates

Kit consisting of 12 spacers for fixing the back plate with the possibility of adjusting the depth with 25 mm pitch.

Description	Code	Package, No. of pieces
Spacers 25mm long	AA8025	1/12
Spacers 50mm long	AA8050	1/12





22

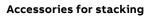
Ordering codes - SR2 enclosures



Brackets for wall fixing

These allow wall installation of the enclosures and are mounted by using the special holes positioned on the rear of the enclosures.

Description	Code	Package/ No. of pieces
Brackets for wall fixing	AA1206	1/4



Dimensions (mm)			Package/ No. of
w	D	Code	pieces
IP65 gasket			
400	200	GZ4020	1/1
	250	GZ4025	1/1
600	200	GZ6020	1/1
	250	GZ6025	1/1
	300	GZ6030	1/1
800	300	GZ8030	1/1

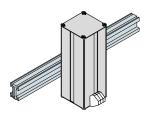


Plinth

Steel plinth 25/10 thick grey RAL7012 color.

Plinth				
Dimensions (mm)				Package, No. of
w	D	н	Code	pieces
400	200	100	ZA4020	1/1
	250	100	ZA4025	1/1
600	250	100	ZA6025	1/1
	300	100	ZA6030	1/1
800	300	100	ZA8030	1/1

Ordering codes - SR2 enclosures



Temperature management

IP20 heater

Their use prevents condensation in the electric cabinets. They consist of a heating element (PTC thermistor) inserted in an aluminium alloy ground plate. The PTC thermistor is a component which modifies its impedance according to the operating temperature. It is intrinsically stable and ensures primary safety features for the heater and service stability. The main qualities of the heaters using PTC are:

- · electrical absorption (or dissipated power) which is almost constant in
- the range of power supply voltage between 100 and 250V;

• electrical absorption bound by inverse law to the trend of the ambient temperature. The special tubular geometry of the ground plate allows efficient thermal exchange with the heating element. This allows high powers and limited overall dimensions (especially in width and depth); Snap-on assembly on 35 mm DIN rail. Requires a thermostat.

	Dimensions (mm)				Package, No. of
Description	H W D		D	Code	pieces
Anti-condensation heater 30W, 110-240 Vac-dc	115	42	42	VA7930	1/1
Anti-condensation heater 50W, 110-240 Vac-dcc	165	42	42	VA7950	1/1
Anti-condensation heater 75W, 110-240 Vac-dc	210	42	42	VA7975	1/1
Anti-condensation heater 100W, 110-240 Vac-dc	165	42	51	VA7910	1/1
Anti-condensation heater 150W, 110-240 Vac-dc	146	82	51	VA7915	1/1
Anti-condensation heater with fan 300W, 230 Vac-dc	148	82	91	VA8300	1/1

All the heaters with PTC absorb a higher power than the rated one on inrush according to a transitory which lasts a few tenths of a second.

If the heaters are to be supplied by means of an auxiliary transformer, its apparent power must be sized taking 1.5 times the rated power of the heaters with natural aeration and twice those with forced ventilation into consideration.

IEC 890 method for calculating the effective cooling surface (CEI 17-43 method)

The total power dissipation P of an enclosure is linked to the exchange effective dissipating surface S, the ΔT difference between the inner and outer temperature and the k coefficient of heat exchange relative to the material of the enclosure:

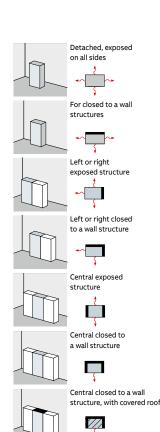


k = 5,5 for painted steel

ΔT = T1-T2;

T1 = dew point temperature (on overage 25 °C)

T2 = minimum ambient temperature.



Ordering codes - SR2 enclosures

The exchange surface S can be calculated using the following table taken from the CEI 17-43

Disposition of the cabinet	on of the cabinet Calculating the enclosure surface S (mm ²)	
Detached, exposed on all sides	S = 1,8 x H x (L+P) + 1,4 x L x P	L = width
For closed to a wall structures	S = 1,4 x L x (H+P) + 1,8 x P x H	H = height P = depth
Left or right exposed structure	S = 1,4 x P x (H+L) + 1,8 x L x H	– P – depth
Left or right closed to a wall structure	S = 1,4 x H x (P+L) + 1,4 x L x P	
Central exposed structure	S = 1,8 x L x H + 1,4 x L x P + P x H	
Central closed to a wall structure	S = 1,4 x L x (H+P) + P x H	
Central closed to a wall structure, with covered roof	S = 1,4 x L x H + 0,7 x L x P + P x H	

Using a SRN8630K box, in "for closed to a wall structures" case we will obtain: T1 = 25 °C; T2 = 20 °C; K = 5,5; Δ T = (25-20) = 5 °C; S = 1,4m²

The total power dissipation P obtained will be: P= k * Δ T * S = 38,5 W

The recommended heater is VA7950 (50W).

Temperature management

IP20 Thermostat

Conforms to EN 60730-1, CE and cURus standards, IP20 degree of protection. Grey RAL 7035 colour; electrical life 100,000 cycles. Dimensions (HxWxD) 68x29x45mm, can be mounted on DIN rail. The version with NO (normally open) contact allows closure of a circuit activating ventilation, air conditioning, or alarms. The version with NC (normally closed) contact allows opening of a circuit, disconnecting any anti-condensation resistances.

Description	Standard power supply V~/50-60Hz		Code	Package/ No. of pieces
NO ventilation thermostat	12-60 V d.c.; 110-250V a.c.	" <i>LR</i> "	EN0101K	1/1
NC heating thermostat	12-60 V d.c.; 110-250V a.c.	" <i>LR</i> "	EN0102K	1/1

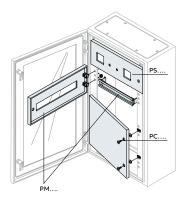
	Standard power supply	Contact capacity		Temperature	Type of	
Code	V~/50-60Hz	Load Ω	Load L	scale	contact	Weight
EN0101K	12-60 V d.c.; 110-250V a.c.	10A	2A	-10 +80 °C	NO	54g
EN0102K	12-60 V d.c.; 110-250V a.c.	10A	2A	-10 +80 °C	NC	54g

Frame for DIN rail

Internal supports for fixing modular panels and DIN rails, colour RAL 7035 orange peel.

	Dimensions (mm) H W			Package/ No. of
Description			Code	pieces
Supports 14 mod. DIN x 2 rows	500	400	KD5040K	1/1
Supports 14 mod. DIN x 3 rows	600	400	KD6040K	1/1
Supports 25 mod. DIN x 4 rows	800	600	KD8060K	1/1
Supports 25 mod. DIN x 5 rows	1000	600	KD1060K	1/1
Supports 36 mod. DIN x 5 rows	1000	800	KD1080K	1/1
Supports 25 mod. DIN x 6 rows	1200	600	KD1260K	1/1
Supports 36 mod. DIN x 6 rows	1200	800	KD1280K	1/1

Ordering codes - SR2 enclosures



Modular panels

Modular panels made of 12/10mm thick sheet steel painted RAL 7035 colour orange peel. The modular hinged panels can be mounted on the enclosures by using the special kit (KD...) consisting of functional uprights and compensation panel. The hinges patented by ABB, allow automatic earthing for panel contact when it is closed and are also suitable conventional earthing (with a cable). Each modular panel (PM) has a DIN rail provided (adjustable in depth), the fixing brackets and the relative small items. Modular and circuit-breakers and Tmax moulded-case circuit-breakers up to T3 can be placed side by side on the same DIN rail using the special depth adapter AP6001. To install moulded-case circuit-breakers, it is necessary to fix the DIN rail in a position towards the back. The fixing brackets of the DIN rail allow the wiring duct to be mounted up to a maximum size of 60 x 60 mm.

Modular hinged panels for modular apparatus (DIN rail and fixing brackets included)				
Dimensions (mm)			Package/	
Description	н	w	Code	No. of pieces
14 mod. DIN + fixing bracket	185	400	PM1414K	1/1
25 mod. DIN + fixing bracket	185	600	PM1625K	1/1
36 mod. DIN + fixing bracket	185	800	PM1836K	1/1

Modular hinged panels for measuring instruments

	Dimensions (mm)		Package/	
Description	н	w	Code	No. of pieces
2 instruments 72 x 72mm	185	400	PS2476K	1/1
2 instruments 72 x 72mm	185	600	PS2676K	1/1
2 instruments 72 x 72mm	185	800	PS2876K	1/1

Modular hinged blind panels

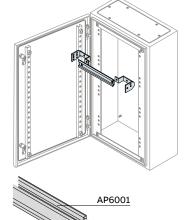
	Dimensions (mm)			Package/
Description	н	w	Code	No. of pieces
Blind panel	185	400	PC1406K	1/1
Blind panel	185	600	РС1606К	1/1
Blind panel	185	800	PC1806K	1/1
Blind panel	370	600	РС2606К	1/1
Blind panel	370	800	РС2806К	1/1

DIN rail and fixing brackets

Description	No. of modules	W (mm)	Code	Package/ No. of pieces
DIN rail and fixing brackets	14	400	GD4006	1/1
DIN rail and fixing brackets	25	600	GD6006	1/1
DIN rail and fixing brackets	36	800	GD8006	1/1
Depth adapter				
No.1 depth adapter for Tmax T1-T2-T3-XT1-XT3 W=600mm		AP6001	1/4	

Polished flange for DIN-Rail mounting

Description	Code	Package/ No. of pieces
Polished flange for XT1 3P mounted on DIN rail	AD3301	1/1
Polished flange for XT1 4P mounted on DIN rail	AD3302	1/1
Polished flange for XT3 3P mounted on DIN rail	AD3303	1/1
Polished flange for XT3 4P mounted on DIN rail	AD3304	1/1



22

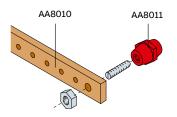
Ordering codes - SR2 enclosures



Door anti-closure device

It can't be mounted with the inner-door or with modular/blind panels mounted down in structure and hinged.

Description	Code	Package/ No. of pieces
Door anti-closure device	EV0015	1/4



Neutral or earthing busbars

The busbars, made of electrolytic copper with M6 threaded holes with 25 mm pitch, can be mounted on the back plates by means of the special supports. They must be sized according to the enclosure and the position they are installed in.

Description	W (mm)	Code	Package/ No. of pieces
No. 4 busbars sect. 20x5mm	1000	AA8010	1/4
No.5 support for busbar		AA8011	1/5

Spray protection roofs

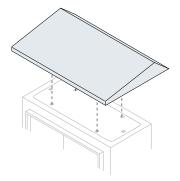
To improve protection against entry of liquids and rain. Made of 15/10mm thick sheet steel, painted RAL 7035 colour orange peel.

Spray protection roof			
Dimensions (r	nm)		Package
w	D	Code	No. of pieces
200	150	TT2015K	1/1
300	150	ТТ3015К	1/1
400	150	ТТ4015К	1/1
300	200	ТТ3020К	1/1
400	200	ТТ4020К	1/1
500	200	ТТ5020К	1/1
600	200	ТТ6020К	1/1
400	250	ТТ4025К	1/1
500	250	ТТ5025К	1/1
600	250	ТТ6025К	1/1
600	300	ТТ6030К	1/1
800	300	ТТ8030К	1/1

Shaped sections for accessories

These allow fixing of accessories (e.g. wiring ducts) inside the blind doors. They consist of a pair of vertical crosspieces made of 15/10mm thick white galvanised sheet, pre-drilled with 25 mm pitch. In the enclosures with 1000 and 1200 mm height with blind door, the shaped sections are already provided.

	Dimensions (mm)		Package/ No. of
Description	н	Code	pieces
No. 2 shaped sections for door	600	TS6009	1/1
No. 2 shaped sections for door	700	TS7009	1/1
No. 2 shaped sections for door	800	TS8009	1/1
No. 2 shaped sections for door	1000	1SLM400000A9000	1/1



Ordering codes - SR2 enclosures



AA8001

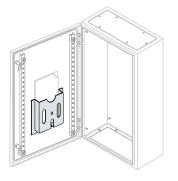




AA8003



EV1008





These can replace the standard closures of the external doors. The inserts are interchangeable and easily replaced by loosening a single nut.

		Package/ No. of
Description	Code	pieces
Box Ø 19 mm double tongue and plastic key (spare part)	AA8001	1/1
Box Ø 19 mm with security insert and Yale type key	AA8002	1/1
Box Ø 19 mm with handle and Yale type key	AA8003	1/1
Box Ø 19 mm with triangular insert	AA5200	1/1
Plastic key for triangular insert AA5200	AA5190	1/1
Ergonomic box complete with double tongue insert (without tongue)	EV1008	1/1
Single code Yale insert	EV1036	1/1
Ronis 455 insert for	EV1037	1/1
3mm Double tongue insert	EV1039	1/1

Document pocket RAL 7035

Made of plastic, RAL 7035 colour, A4 size. The pocket can be glued inside the blind door with a width of more than 400 mm, using the adhesives provided.

Description	Code	Package/ No. of pieces
Plastic document pocket for A4	EV1075K	1/1

Special Painting Service

Special painting service has to manage with code of enclosure SRN....SPEC (e.g. SRN4320SPEC VERNSR + note about color required). It is necessary specify the color required in the order. Minimum order quantity 4 pieces. For any other component or further information, please contact you local sales network.

		Package/ No. of
Description	Code	pieces
Extra cost for special SR painting	VERNSR	

Accessories for DIN panel

Hole covering strip RAL7035 colour

Description	Code	Package/ No. of pieces
No.10 hole covers W=2000mm, grey	AD1086	1/10
No.3 hole covers 24 DIN modules W=600mm	AD1088	1/3
No.3 hole covers 36 DIN modules W=800mm	AD1089	1/3

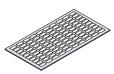


Ordering codes - SR2 enclosures

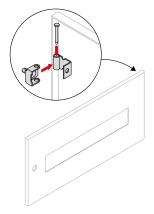




AD1101-AD1102 AD1103-AD1104



EH2118-EH2129 AD1600-AD1800



Closing plug for instrument holder panels

Description	Code	Package/ No. of pieces
No.10 closing plug for instrument holder panels 72x72mm	EV1135	1/10
No.5 closing plug for instrument holder panels 96x96mm	EV1136	1/5
No.50 tappi di chiusura per pulsanti Ø22 mm	EV1137	1/50

Adhesive name label holders

	Dimensions (mm)		Package/ No. of
Description	w	Code	pieces
No. 20 label holders 18 DIN mod	325	EH2118	1/20
No. 20 label holders 29 DIN mod	525	EH2129	1/20
No. 20 label holders 24 DIN mod	432	AD1600	1/20
No. 20 label holders 36 DIN mod	634	AD1800	1/20

Etichette scrivibili con sistema Grafoplast compatibile

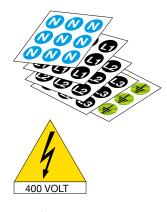
Description	No. of DIN mod.	Code	Package/ No. of pieces
No. 288 labels 1 DIN mod.	1	AD1101	1/288
No. 192 labels 2 DIN mod.	2	AD1102	1/192
No. 96 labels 3 DIN mod.	3	AD1103	1/96
No. 96 labels 4 DIN mod.	4	AD1104	1/96

Hinges and quick closures for panels

Description	Code	Package/ No. of pieces
No. 10 hinges for panels	EH1889 ⁽¹⁾	1/10
No. 5 quick closures for front panels	EH1890	1/5

 $^{(1)}$ Use No.2 hinges for panel H=150/200/300/400mm, No.3 hinges for panel H=500/600mm.

Ordering codes - SR2 enclosures





Marking

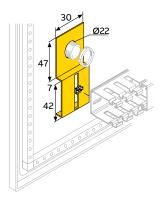
		Package/ No. of
Description	Code	pieces
No.5 adhesive labels ABB-IS2 W=1000mm	EV1157	1/5
No.490 adhesive labels Ø 12mm N symbol	EV1150	1/490
No.490 adhesive labels Ø 12mm L1symbol	EV1151	1/490
No.490 adhesive labels Ø 12mm L2 symbol	EV1152	1/490
No.490 adhesive labels Ø 12mm L3 symbol	EV1153	1/490
No.490 adhesive labels Ø 12mm T symbol	EV1154	1/490
No.10 triangular adhesive labels 125mm with 400V lightning arrow symbol	EV1155	1/10
No.100 triangular adhesive labels 50mm with lightning arrow symbol	EV1156	1/100

Screws for apparatus

Description	Code	Package/ No. of pieces
No.1000 perforating screws 4.2x13mm cross slotted head	EV1100	1/1000
No.1000 perforating screws 4.2x19mm cross slotted head	EV1101	1/1000
No.50 trilobed screws M6 L=10mm	AD1033	1/50

Wiring duct support brackets

Description	Code	Package/ No. of pieces
No. 100 wiring duct support brackets on upright structure	EV1131	1/100



Ordering codes - SR2 enclosures

Spare parts

Description	Code	Package/ No. of pieces
Ergonomic box complete with double tongue insert (without tongue)	EV1008	1/1
N. 10 hings for SR2 enclosures + countersunk rivets	AA1204	1/1
N. 16 screws and nuts M6x14 for flange	AA1203	1/2
N. 2 fairlead plates for SRN3215K	FLN3215K	1/2
N. 2 fairlead plates for SRN3315K-SRN4315K	FLN3315K	1/2
N. 2 fairlead plates for SRN3415K	FLN3415K	1/2
N. 2 fairlead plates for SRN4320K-SRN5320K	FLN4320K	1/2
N. 2 fairlead plates for SRN4420K-SRN5420K-SRN6420K	FLN4420K	1/2
N. 2 fairlead plates for SRN5425K-SRN6425K	FLN4425K	1/2
N. 2 fairlead plates for SRN4620K	FLN4620K	1/2
N. 2 fairlead plates for SRN6625K-SRN8625K-SRN10625K	FLN6625K	1/2
N. 2 fairlead plates for SRN7520K	FLN7520K	1/2
N. 2 fairlead plates forr SRN7525K	FLN7525K	1/2
N. 2 fairlead plates for SRN8630K-SRN10630K-SRN12630K	FLN8630K	1/2
N. 2 fairlead plates for SRN8830K-SRN10830-SRN12830K	FLN8830K	1/2
Blind door 1000x600mm (hxl)	PRN1066K	1/1
Blind door 1000x800mm (hxl)	PRN1086K	1/1
Blind door 1200x600mm (hxl)	PRN1266K	1/1
Blind door 1200x800mm (hxl)	PRN1286K	1/1
Blind door 300x200mm (hxl)	PRN3026K	1/1
Blind door 300x300mm (hxl)	PRN3006K	1/1
Blind door 300x400mm (hxl)	PRN3046K	1/1
Blind door 400x300mm (hxl)	PRN4036K	1/1
Blind door 400x400mm (hxl)	PRN4046K	1/1
Blind door 400x600mm (hxl)	PRN4066K	1/1
Blind door 500x300mm (hxl)	PRN5036K	1/1
Blind door 500x400mm (hxl)	PRN5046K	1/1
Blind door 600x400mm (hxl)	PRN6046K	1/1
Blind door 600x600mm (hxl)	PRN6066K	1/1
Blind door 700x500mm (hxl)	PRN7056K	1/1
Blind door 800x600mm (hxl)	PRN8066K	1/1
Blind door 800x800mm (hxl)	PRN8086K	1/1
Glazed door 1000x600mm (hxl)	PTN1066K	1/1
Glazed door 1000x800mm (hxl)	PTN1086K	1/1
Glazed door 1200x600mm (hxl)	PTN1266K	1/1
Glazed door 1200x800mm (hxl)	PTN1286K	1/1
Glazed door 500x400mm (hxl)	PTN5046K	1/1
Glazed door 600x400mm (hxl)	PTN6046K	1/1
Glazed door 700x500mm (hxl)	PTN7056K	1/1
Glazed door 800x600mm (hxl)	PTN8066K	1/1
Spray paint color grey RAL7035 for structure	VB7035	1/1
Spray paint color grey RAL7012 for plinth	VB7012	1/1

Ordering codes - SR2 enclosures



Painting Special Service

_ R	Description	Code	
-	Extra cost for special SR painting	VERNSR	

Standard size enclosures, standard colour

Special painting service with standard colour (see on the next page) for standard size enclosures in quantities equal to or greater than 4 units with single code to be managed with code SRN ... SPEC + VERNSR overprice equal to the number of enclosures + colour note to be specified in the order.

Example:	SRN4320SPEC	4
	VERNSR	4
	COLOUR NOTE	

Standard size enclosures, non-standard colour

Request feasibility of implementation by completing the relevant Form for special quotations and send it to the R&D ECS office.

Management is per offer.

If the offer is accepted and after having received it, it will be possible to place the order with the codes indicated in the offer that will not be SRN...SPEC, but dummy ones. Always remember to indicate the offer reference in the order.

Non-standard size enclosures, standard colour

Request feasibility of implementation by completing the relevant Form for special quotations and send it to the R&D ECS office.

Management is per offer.

If the offer is accepted and after having received it, it will be possible to place the order with the codes indicated in the offer, that will not be SRN...SPEC, but dummy ones: Always remember to indicate the offer reference in the order.

Non-standard size enclosures, non-standard colour

Request feasibility of implementation by completing the relevant Form for special quotations and send it to the R&D ECS office.

Management is per offer.

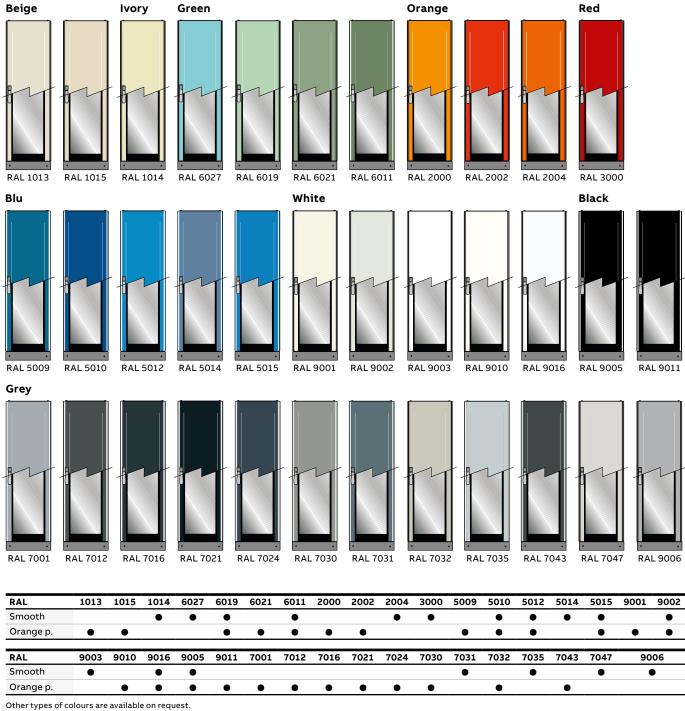
If the offer is accepted and after having received it, it will be possible to place the order with the codes indicated in the offer, that will not be SRN...SPEC, but dummy ones:

Always remember to indicate the offer reference in the order.

Please note that the minimum quantity is four pieces with a single code.

Standardised RAL colours (on request)

On request, colours other than the standard RAL 7035 orange peel one are available, using the same painting cycle (for other types of colours or paints, please contact ABB).

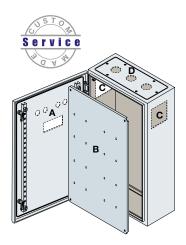


Corrosion test in saline mist

Treatment time (hours)	24	48	72	96	120	144	168	192
Rust penetration	no	no	no	no	no	no	no	193(1)
Blistering	no	no	no	no	no	no	no	no

⁽¹⁾ When a tearing test with adhesive tape is carried out after 193 hours of exposure, about 3 mm of paint detachment can be noted from the notch area with 1–1.5 mm rust penetration.

Ordering codes - SR2 enclosures



Special Drilling Service

The overprice amount depends on the number of individual drilled parts and not on the number of holes.

For single part it means: A-door B-plate; C-housing; D-top/bottom part.

Please note that the minimum quantity is 4 pieces with a single code.

The price of the special drilling service depends on the number of parts to be drilled and on the amount of enclosures to be drilled.

Description	Code	No. of enclosures to be drilled
Extra cost for drilling service per individual drilled part (A-B-C-D)	FORSR1	4-5-6
Extra cost for drilling service per individual drilled part (A-B-C-D)	FORSR2	7-8-9
Extra cost for drilling service per individual drilled part (A-B-C-D)	FORSR	≥ 10

Standard size enclosures with special drilling

The special drilling service for standard size enclosures in quantities equal to or greater than 4 units with a single code has to be managed with code SRN ... SPEC + overprice FORSR/ FORSR1/FORSSR2 (see table) equal to the number of enclosures and the number of parts to be drilled + hole layout to be attached to the order (see on the next page). Example: Enclosure (4 pcs) with door to be drilled (1 part)

Example: Enclosure (4 pcs) with door and plate to be drilled (1 parts) SRN4320SPEC 4 FORSR1 4 DRAWINGS TO BE ATTACHED

Example: Enclosure (4 pcs) with door and plate to be drilled (2 parts) SRN4320SPEC 4 FORSR1 8 DRAWINGS TO BE ATTACHED

Non-standard enclosure sizes, special drilling

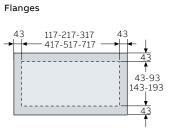
Request feasibility of implementation by completing the relevant Form for special quotations and send it together with the drill layout to the R&D ECS office. Management is per offer.

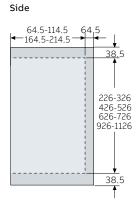
If the offer is accepted and after having received it, it will be possible to place the order with the codes indicated in the offer, that will not be SRN...SPEC, but dummy ones. Always remember to indicate the offer reference in the order.

Overall dimensions - Drillings SR2

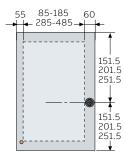
Drillings SR2

Maximum useful overall dimensions for the drillings.

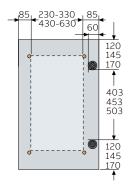




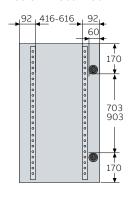
Doors H = 300-400-500



Doors H = 600-700-800



Doors H = 1000-1200



General purpose enclosures General characteristics and applications -SRX enclosures

The AISI 304 stainless steel used allows the cabinets to be installed either indoors or outdoors, by fixing to the floor or a wall. AISI 304 stainless steel enclosures with opaque door, usually intended for making enclosures for automation, are supplied with the galvanised sheet metal internal plate and do not have cable entry flanges.

SRX enclosures always conform to IEC EN 62208 and to IEC 61439-1-2, have a degree of protection IP66 (IEC EN 60529); NEMA 4X and NEMA 3R (UL standard). The degree of protection against external mechanical impacts is IK10 for the version with opaque door and IK09 for the version with glass door (IEC 62262).

AISI 304 stainless steel enclosures with glass door can also be used for distribution configurations. Alternatively, the internal equipment is made by selecting special kits (Distribution Kit) consisting of a pair of functional uprights for assembly of the AISI 304 stainless steel modular panels (to be ordered separately) and any compensation panels. The modular panels, which can also be installed on the enclosures with opaque door using the same KD Kit....X, are all hinged and have vertical modularity of 185 mm.



General purpose enclosures General characteristics and applications -SRX enclosures

SRX enclosures can be equipped with: standard plates, clip nuts, spacers, slotted internal plate, accessories for stacking, DIN rails and fixing brackets, shaped sections for accessories on doors, closing systems.



Spray protection roof Improves protection against infiltration by liquids and accidental sprays. Made of AISI 304 stainless steel.



Distribution kit All apparatuses and modular circuit breakers can be installed on a DIN rail combined with a modular panel.



Stacking

SRX enclosures can be stacked using the special kit. The plinth with removable flanges is made of 25/10 thick AISI 304 stainless steel.



Closing box

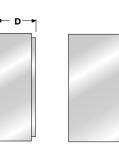
A new Ø19 mm closing box made of chrome-finished plastic with double tongue key.

Technical characteristics		
Conforms to	CEI EN 62208, IEC 61439-1-2	
Degree of protection	IP66 (CEI EN 60529) UL Listed: UL 508A NEMA: Types 1, 3R, 4, 4X, 12	
Degree of mechanical protection	IK10 opaque door IK09 glass door (IEC 62262)	
Certifications		
Type of material	AISI 304	
Installation site	indoors/outdoors	
Fixing method	floor/wall	
Normal operating conditions - ambient temperature	from –5 to +55°C	

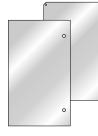
Selection of the structure - SRX enclosures

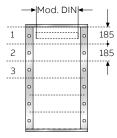
Rapid selection table







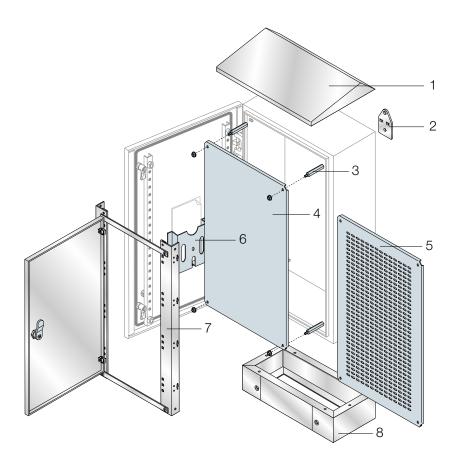


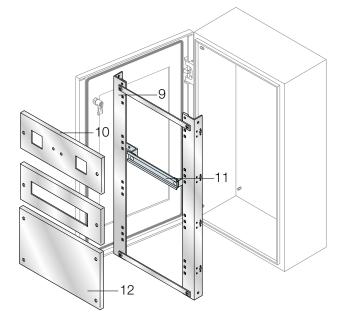


Overall dimensions				Automation kit		Distribution kit Supports for mo	Distribution kit Supports for mounting modular panels			
H W D mm mm mr	W D opaque door	Enclosures with opaque door + mounting plate	Enclosures with transparent door ¹	Opaque inner door IP20	Opaque plate	No. of vertical mod. H=185mm	No. of DIN mod. per row	Total modules	DIN supports	
300	200	150	SRN3215X			PF3020				
	400	150	SRN3415X			PF3040				
400	300	150	SRN4315X		KC4030X	PF4030				
		200	SRN4320X		_					
	400	200	SRN4420X			PF4040				
	600	200	SRN4620X			PF4060				
500	400	200	SRN5420X	SRN5420VX	KC5040X	PF5040	2	14	28	KD5040X
	500	200	SRN5520X			PF5050				
600	400	200	SRN6420X	SRN6420VX	KC6040X	PF6040	3	14	42	KD6040X
	600	200	SRN6620X			PF6060				
		300	SRN6630X							
700	500	250	SRN7525X	SRN7525VX	KC7050X	PF7050				
800	600	200	SRN8620X		KC8060X	PF8060	4	25	100	KD8060X
		250		SRN8625VX				25	100	_
		300	SRN8630X					25	100	_
	800	300	SRN8830X			PF8080				
1000	800	300	SRN10830X	SRN10830VX	KC1080X	PF1080	5	36	180	KD1080X
1200	600	300	SRN12630X			PF1260				
	800	300	SRN12830X			PF1280				

¹ Mounting plate to be ordered separately.

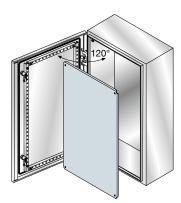
Ordering codes - SRX enclosures





- 1 Spray protection roof
- 2 Wall-mounting brackets
- 3 Spacers for back plates
- 4 Opaque internal plate
- 5 Slotted internal plate
- 6 Document pocket
- 7 Opaque inner door
- 8 Plinth
- 9 Frame for DIN rail
- 10 Modular panels for apparatuses
- 11 DIN rail
- 12 Opaque modular panels

Ordering codes - SRX enclosures



SRX series enclosures with opaque door (internal plate included)

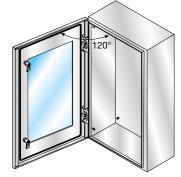
Enclosures with an opaque door, made of AISI 304 stainless steel, usually intended for producing enclosures for automation, come supplied with the galvanised sheet metal internal plate and do not have cable entry flanges.

Dimensions (mm)				Package, No. of
н	w	D	Code	pieces
300	200	150	SRN3215X	1/1
	400		SRN3415X	1/1
400	300	150	SRN4315X	1/1
300 400 600	300	200	SRN4320X	1/1
	400		SRN4420X	1/1
	600		SRN4620X	1/1
500	400	200	SRN5420X	1/1
	500		SRN5520X	1/1
600	400	200	SRN6420X	1/1
	600		SRN6620X	1/1
	600	300	SRN6630X	1/1
700	500	250	SRN7525X	1/1
800	600	200	SRN8620X	1/1
	600	300	SRN8630X	1/1
	800		SRN8830X	1/1
1000	800	300	SRN10830X	1/1
1200	600	300	SRN12630X	1/1
	800		SRN12830X	1/1

SRX series stainless steel enclosures with transparent door

AISI 304 stainless steel enclosures with a glass door can also be used for distribution configurations. The internal equipment is set up using the relevant kits: - KD...X (Distribution Kit) consisting of a pair of functional uprights for assembly of the modular panels made of AISI 304 stainless steel (to be ordered separately) and of any compensation panels. The modular panels, which can also be installed on the enclosures with opaque door using the KD kit, are all hinged and have vertical modularity of 185 mm. The enclosures with see-through door are provided without mounting plate.

Enclosures with transparent door						
Dimensions (mm)				Package/		
н	w	D	Code	No. of pieces		
500	400	200	SRN5420VX	1/1		
600	400		SRN6420VX	1/1		
700	500	250	SRN7525VX	1/1		
800	600		SRN8625VX	1/1		
1000	800	300	SRN10830VX	1/1		



Ordering codes - SRX enclosures



Opaque inner door

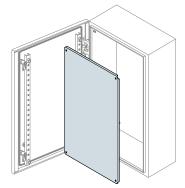
The inner door guarantees a degree of protection of IP20. Made of 15/10 thick AISI 304 stainless steel, complete with box and double tongue insert.

Opaque inner door						
Dimensions (mm)			Package/			
н	w	Code	No. of pieces			
400	300	KC4030X	1/1			
500	400	КС5040Х	1/1			
600		KC6040X	1/1			
700	500	КС7050Х	1/1			
800	600	КС8060Х	1/1			
1000	800	KC1080X	1/1			

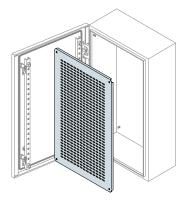
Opaque internal mounting plate

20/10 thick galvanised sheet metal internal plate, complete with fixing with small parts supplied. Depth-adjustable using a special spacer kit (to be ordered separately).

Opaque internal mounting plate					
Dimensions (mm)			Package		
н	w	Code	No. of pieces		
300	200	PF3020	1/1		
300	400	PF3040	1/1		
400	300	PF4030	1/1		
400	400	PF4040	1/1		
400	600	PF4060	1/1		
500	400	PF5040	1/1		
500	500	PF5050	1/1		
600	400	PF6040	1/1		
600	600	PF6060	1/1		
700	500	PF7050	1/1		
800	600	PF8060	1/1		
800	800	PF8080	1/1		
1000	800	PF1080	1/1		
1200	600	PF1260	1/1		
1200	800	PF1280	1/1		



Ordering codes - SRX enclosures



Slotted internal plate

Fixing with small parts supplied. Depth-adjustable using a special spacer kit (to be ordered separately).

Piastra interna asolata					
Dimensions (mm)			Package, No. of		
н	W	Code	pieces		
300	200	TQ3020	1/1		
300	400	TQ3040	1/1		
400	300	TQ4030	1/1		
400	400	TQ4040	1/1		
400	600	TQ4060	1/1		
500	400	TQ5040	1/1		
600	400	TQ6040	1/1		
600	600	TQ6060	1/1		
700	500	TQ 7050	1/1		
800	600	TQ8060	1/1		
800	800	TQ8080	1/1		
1000	800	TQ1080	1/1		
1200	600	TQ1260	1/1		
1200	800	TQ1280	1/1		



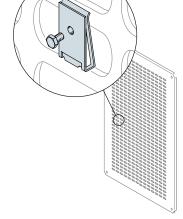
For slotted plates with M6x10mm hexagonal head screws.

Description	Code	Package/ No. of pieces
Clip nuts	TQ6610	1/20

Spacer kit for adjusting back plate depth

Kit made up of 12 spacers for fixing the mounting plate. Allows depth adjustment in 25 mm steps.

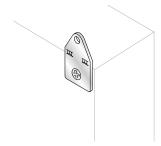
Description	Code	Package, No. of pieces
Spacers, length 25 mm	AA8025	1/12
Spacers, length 50 mm	AA8050	1/12



6

22

Ordering codes - SRX enclosures







Wall-mounting brackets

Allow enclosures to be wall-mounted and are fitted using the special holes located on the back of the enclosures. Made of 30/10 thick AISI 304 stainless steel.

Description	Code	Package/ No. of pieces
No. 4 wall-mounting brackets	AA1206X	1/4

Fairlead plates

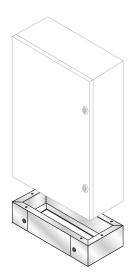
Fairlead plates in 25/10 thick AISI 304 stainless steel with polyurethane gasket.

	Dimensions (mm) W D			Package/ No. of pieces
Description			Code	
Fairlead plate) for SRN3215X	173	97	FLN3215X	1/1
Fairlead plate for SRN4315X	273	97	FLN4315X	1/1
Fairlead plate for SRN3415X	373	97	FLN3415X	1/1
Fairlead plate for SRN4320X, SRN4320VX	273	147	FLN4320X	1/1
Fairlead plate for SRN4420X, SRN5420X, SRN6420X, SRN5420VX, SRN6420VX	373	147	FLN4420X	1/1
Fairlead plate 500x200mm for SRN5520X	473	147	FLN5520X	1/1
Fairlead plate) for SRN4620X, SRN6620X, SRN8620X	573	147	FLN4620X	1/1
Fairlead plate for SRN7525X, SRN7525VX	473	197	FLN7525X	1/1
Fairlead plate for SRN8625VX	573	197	FLN8625X	1/1
Fairlead plate for SRN6630X, SRN8630X, SRN12630X	573	247	FLN6630X	1/1
Fairlead plate for SRN6830X, SRN8830X, SRN10830X, SRN12830X, SRN10830VX	773	247	FLN6830X	1/1

Accessories for stacking

Dimensions (mm)			Package/
w	D	Code	No. of pieces
IP65 gasket			
400	200	GZ4020	1/1
500	200	GZ5020	1/1
	250	GZ5025	1/1
600	200	GZ6020	1/1
	250	GZ6025	1/1
	300	GZ6030	1/1
800	300	GZ8030	1/1

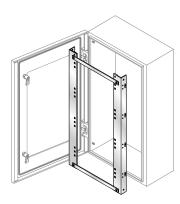
Ordering codes - SRX enclosures



Plinth

25/10 thick AISI 304 stainless steel plinth.

Plinth								
Dimensio	ons (mm)			Package/				
н	w	D	Code	No. of pieces				
100	400	200	ZA4020X	1/1				
100	500	200	ZA5020X	1/1				
100		250	ZA5025X	1/1				
100	600	200	ZA6020X	1/1				
100		300	ZA6030X	1/1				
100	800	300	ZA8030X	1/1				



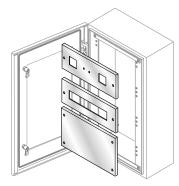
Frame for DIN rail

.

Internal supports for fixing modular panels and DIN rails, with compensation panels, made of AISI 304 stainless steel.

	Dimensions (mm)			Package/
Description	н	w	Code	No. of pieces
Supports for 14 DIN mod. x 2 rows	500	400	KD5040X	1/1
Supports for 14 DIN mod. x 3 rows	600	400	KD6040X	1/1
Supports for 25 DIN mod. x 4 rows	800	600	KD8060X	1/1
Supports for 36 DIN mod. x 5 rows	1000	800	KD1080X	1/1

Ordering codes - SRX enclosures



Screwed modular panels

12/10 mm thick AISI 304 stainless steel modular panels. The screwed modular panels can be fitted on the enclosures using the special kit (KD...) consisting of functional uprights and a compensation panel.

Each modular panel (PM) comes equipped with a DIN rail (depth-adjustable), fixing brackets and the relative small parts. Tmax modular and moulded-case circuit breakers up to T3 can be positioned side by side on the same DIN rail using the special depth adapter AP 6001. To install MCCBs, fix the DIN rail in the recessed position. The DIN rail fixing brackets allow mounting of the wiring duct up to a maximum size of 60 x 60 mm.

Stainless steel screwed modular panels for DIN rail (including DIN rail and fixing brackets)

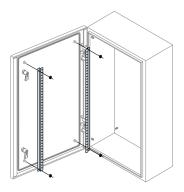
	Dimensions (mm)			Package/ No. of
Description	н	w	Code	pieces
14 DIN mod. + fixing bracket	185	400	PM1414X	1/1
25 DIN mod. + fixing bracket	185	600	PM1625X	1/1
36 DIN mod. + fixing bracket	185	800	PM1836X	1/1

Stainless steel screwed modular panels for measuring instruments

	Dimensions (mm)			Package/ No. of
Description	н	w	Code	pieces
2 instruments 72 x 72mm	185	400	PS2476X	1/1
2 instruments 72 x 72mm	185	600	PS2676X	1/1
2 instruments 72 x 72mm	185	800	PS2876X	1/1

Stainless steel opaque screwed modular panels

	Dimensions (mm)			Package/ No. of
Description	н	w	Code	pieces
Opaque panel	185	400	PC1406X	1/1
Opaque panel	185	600	PC1606X	1/1
Opaque panel	185	800	PC1806X	1/1
Opaque panel	370	600	PC2606X	1/1
Opaque panel	370	800	PC2806X	1/1

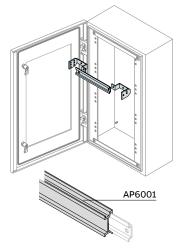


Shaped sections for accessories

Allow fixing of accessories (e.g.: wiring ducts) inside the blind doors. Consist of a pair of vertical crosspieces made of 15/10 thick white galvanised sheet metal, pre-drilled with 25 mm pitch. In enclosures with height 1000 and 1200 mm with a blind door, the shaped sections are already supplied.

	Dimensions (mm)		Package/ No. of
Description	н	Code	pieces
Shaped sections for door	600	TS6009	1/2
Shaped sections for door	700	TS7009	1/2
Shaped sections for door	800	TS8009	1/2

Ordering codes - SRX enclosures



DIN rail and fixing brackets

Description	No. modules	W (mm)	Code	Package/ No. of pieces
DIN rail and fixing brackets	14	400	GD4006	1/1
DIN rail and fixing brackets	25	600	GD6006	1/1
DIN rail and fixing brackets	36	800	GD8006	1/1
Depth adapter				
No.1 depth adapter for Tmax T1-T2-T3-XT1-XT3 W = 600 mm		AP6001	1/4	

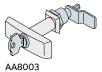
Spray protection roof

Improves protection against infiltration by liquids and accidental sprays. Made of 15/10 thick AISI 304 stainless steel.

Dimensions (mm)			Package
w	D	Code	No. of pieces
200	150	TT2015X	1/1
300	150	TT3015X	1/1
400	150	TT4015X	1/1
300	200	TT3020X	1/1
400	200	TT4020X	1/1
500	200	TT5020X	1/1
600	200	TT6020X	1/1
500	250	TT5025X	1/1
600	250	TT6025X	1/1
600	300	TT6030X	1/1
800	300	TT8030X	1/1









EV1008

Closing systems

May substitute standard fasteners for the external doors.

Description	Code	Package/ No. of pieces
Box Ø 19 mm double tongue made of chrome- finished plastic and key for external door	AA8001X	1/1
Box Ø 19 mm with safety insert and Yale type key for external door	AA8002 ⁽¹⁾	1/1
Box Ø 19 mm with handle and Yale type key for external door	AA8003 ⁽¹⁾	1/1
Box Ø 19 mm with triangular insert for external door	AA5200 ⁽¹⁾	1/1
Plastic key for triangular insert AA5200 for external door	AA5190	1/1
Box with double tongue insert made of plastic with key for inner door (without tongue)	EV1008	1/1
Single code Yale insert for inner door	EV1036	1/1
Ronis 455 insert for inner door	EV1037	1/1
3mm double tongue insert for inner door	EV1039	1/1

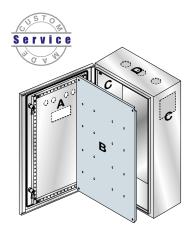
⁽¹⁾Only for external door

Ordering codes - SRX enclosures

Spare parts

Description	Code	Package/ No. of pieces
Stainless steel screws (No. 16 screws, flanged nuts and nylon washers M6)	AA1203X	1/1
Opaque door 300x200 mm (HxW)	PRN3026X	1/1
Opaque door 300x400 mm (HxW)	PRN3046X	1/1
Opaque door 400x300 mm (HxW)	PRN4036X	1/1
Opaque door 400x400 mm (HxW)	PRN4046X	1/1
Opaque door 400x600 mm (HxW)	PRN4066X	1/1
Opaque door 500x400 mm (HxW)	PRN5046X	1/1
Opaque door 500x500 mm (HxW)	PRN5056X	1/1
Opaque door 600x400 mm (HxW)	PRN6046X	1/1
Opaque door 600x600 mm (HxW)	PRN6066X	1/1
Opaque door 600x800 mm (HxW)	PRN6086X	1/1
Opaque door 700x500 mm (HxW)	PRN7056X	1/1
Opaque door 800x600 mm (HxW)	PRN8066X	1/1
Opaque door 800x800 mm (HxW)	PRN8086X	1/1
Opaque door 1000x800 mm (HxW)	PRN1086X	1/1
Opaque door 1200x600 mm (HxW)	PRN1266X	1/1
Opaque door 1200x800 mm (HxW)	PRN1286X	1/1
Glass door 400x300 mm (HxW)	PTN4036X	1/1
Glass door 500x400 mm (HxW)	PTN5046X	1/1
Glass door 600x400 mm (HxW)	PTN6046X	1/1
Glass door 700x500 mm (HxW)	PTN7056X	1/1
Glass door 800x600 mm (HxW)	PTN8066X	1/1
Glass door 1000x800 mm (HxW)	PTN1086X	1/1

Ordering codes - SRX enclosures



Special Drilling Service

The overprice amount depends on the number of individual drilled parts and not on the number of holes.

For single part it means: A-door B-plate; C-housing; D-top/bottom part.

Please note that the minimum quantity is 10 pieces with a single code. The price of the special drilling service depends on the number of parts to be drilled and on the amount of enclosures to be drilled.

Description	Code	No. of enclosures to be drilled
Extra cost for drilling service per individual drilled part (A-B-C-D)	FORSRX	≥ 10

The special drilling service for standard size enclosures in quantities equal to or greater than 10 units with a single code has to be managed with code SRN ... SPEC + overprice FORSR/ FORSR1/FORSSR2 (see table) equal to the number of enclosures and the number of parts to be drilled + hole layout to be attached to the order.

Example: SRN4320XSPEC 10 FORSRX 10

Example: Enclosure (10 pcs) with door and plate to be drilled (2 parts) SRN4320XSPEC 10 FORSRX 20 DRAWINGS TO BE ATTACHED

Non-standard enclosure sizes, special drilling

Request feasibility of implementation by completing the relevant Form for special quotations and send it together with the drill layout to the R&D ECS office. Management is per offer. If the offer is accepted and after having received it, it will be possible to place the order with the codes indicated in the offer.



Painting Special Service

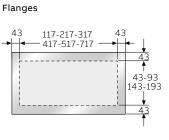
Request feasibility of implementation by completing the relevant Form for special quotations and send it to the R&D ECS office. Management is per offer.

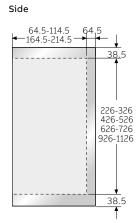
If the offer is accepted and after having received it, it will be possible to place the order with the codes indicated in the offer.

Overall dimensions - Drillings SRX

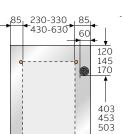
SRX enclosure drilling

Maximum working dimensions for drilling.





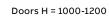
Doors H = 300-400-500

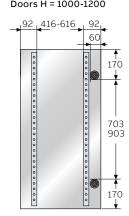


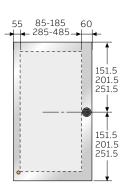
120 145 170

0

c







Doors H = 600-700-800

/164