

CATALOGUE

General purpose enclosures

Heavy duty and industrial enclosures





- Boxes for distribution systems and OEM applications
- Automation- and distribution boards
- Enclosures for data and telecommunications
- Pedestals and column cabinets

General purpose enclosures of ABB are revolutionizing the market of low voltage electric insulating switchboards and industrial boxes. No matter how harsh the environment is, there is always a proper enclosure for your needs. Thanks to protection ratings and high quality materials this fits

for a wide variety of indoor and

outdoor applications.

Table of contents

01. Multibox	4
02. APO	18
03. VMS	38
04. ARIA	64
05. PolySafe	76
06. Accessories	98
07. Pedestals	128
08. Gemini: the improved range	168
09. SR2	230
10 SDY	256

01

Multibox

Multibox

Index

MultiBox

Small multi-purpose boxes for all types of application	7
Accessories	12
Dimensional	13
Power dissipation values	17

Range overview

IP66 Multibox	IP67 APO	IP65/66 ARIA	IP54/55/65 PolySafe
[] 65×65×57/81	186×151×140	8 300×200×170	500×500×320
94×65×57/81		400×300×170	500×750×320
	302×186×175	500x400x230	500×1000×320 750×500×320
94x94x57/81	302×302×175	600x400x230	750×750×320
110×110×66/90	Y \\	8	750×1000×320
130×94×57/81	372×302×175	700×500×270	750×1250×320
130×130×75/99		800×600×300	1000×500×320
100.04.57(01	488×302×175	1000×800×300	1000×750×320
180×94×57/81			1000×1000×320
180×110×90/111/165	558×302×175		1000×1000×320
			1000x1250x320
182×180×90/111/165	603×302×175		1250×750×320
254×180×90/111/165	603×372×175		1250x1000x320
			1250×1000×320
361×254×111/165	603×603×175		
			1250×1000×320

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 \square .
- 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!

MultiBox - Small boxes for all types of application







		Polystyrene		Polycarbonate	,(1)			
		Gray cover RAL 7035		Gray cover RAL 7035		Cover transparent		
Back box	Depth	Туре	Order code	Туре	Order code	Туре	Order code	_
		MB 11 HxL	= 65 x 65mm					
With one metric	A = 57	MB861612	4TBG861612C0100	MB861500	4TBG861500C0100	MB861501	4TBG861501C0100	
cutout	B = 81	MB861614	4TBG861614C0100	MB861502	4TBG861500C0100	MB861503	4TBG861503C0100	
cutout	D - 01	MD001014	4166861614C0100	MP901205	41BG661502C0100	MP901202	41BG661503C0100	
Smooth	A = 57	MB861668	4TBG861668R0100					
	B = 81	MB861670	4TBG861670C0100					
		MB 21 HxL	= 94 x 65mm	<u> </u>				_
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 110 mm					
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 HxL	= 130 x 94mm					
With one metric	A = 57	MB861628	4TBG861628R0100	MB861516	4TBG861516C0100	MB861517	4TBG861517C0100	
cutout	B = 81	MB861630	4TBG861630R0100	MB861518	4TBG861518R0100	MB861519	4TBG861519C0100	
Smooth	A = 57	MB861684	4TBG861684R0100					
	B = 81	MB861686	4TBG861686C0100					
		MB 44 HxL	= 130 x 130mm					
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					
	B = 99	MB861690	4TBG861690R0100					
		MB 52 HxL	= 180 x 94mm					
With one metric	A = 57	MB861636	4TBG861636R0100	MB861524	4TBG861524C0100	MB861525	4TBG861525C0100	
cutout	B = 81	MB861638	4TBG861638R0100	MB861526	4TBG861526C0100	MB861527	4TBG861527C0100	
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







Mounting plate (insulated)		DIN profile 15x5x1		DIN profile 35x7.5x1	
Туре	Order code	Туре	Order code	Туре	Order code
				-	
74 x 45 mm					
74 X 45 111111					
MB861731	4TBG861731C0100			-	
				-	
74 x 74 mm		L=49.5			
MB861732	4TBG861732C0100	short side MB861741	4TBG861741C0100	-	
PIDOOTISE	410000173200100	111111111111111111111111111111111111111	418000114100100		
90x90mm		L=80			
		long/short side			
MB861733	4TBG861733R0100	MB861742	4TBG861742R0100		
110 x 74 mm		L=92 long/short side		L=81 long/short side	
MB861734	4TBG861734R0100	MB861743	4TBG861743C0100	MB861746	4TBG861746R0100
110 x 110 mm		L=111		L=106	
MADOCATOS	4TDC0C1725D0152	long/short side	ATDC00174450450	long/short side	4TDC004747DC:00
MB861735	4TBG861735R0100	MB861744	4TBG861744R0100	MB861747	4TBG861747R0100
160 x 74 mm		L=154		L=144	
100 / 14		long side		long side	
MB861736	4TBG861736R0100	MB861745	4TBG861745C0100	MB861748	4TBG861748R0100

MultiBox - Small boxes for all types of application







		Polystyrene		Polycarbonate	(1)			
		Gray cover RAL 7035		Gray cover RAL 7035		Transparent cover		
Back box	Depth	Туре	Order code	Туре	Order code	Туре	Order code	
		MB 53 HxL	. = 180 x 110mm					
With a metric	A = 90	MB861640	4TBG861640R0100	MB861528	4TBG861528C0100	MB861529	4TBG861529C0100	
cutout	B = 111	MB861642	4TBG861642R0100	MB861530	4TBG861530R0100	MB861531	4TBG861531R0100	
	C = 165	MB861644	4TBG861644R0100	MB861532	4TBG861532C0100	MB861533	4TBG861533C0100	
	A = 90	MB861696	4TBG861696R0100					
Smooth	B = 111	MB861698	4TBG861698C0100					
	C = 165	MB861700	4TBG861700C0100					
		MB 65 HxL	. = 182 x 180mm					
With a metric	A = 90	MB861646	4TBG861646R0100	MB861534	4TBG861534C0100	MB861535	4TBG861535C0100	
cutout	B = 111	MB861648	4TBG861648R0100	MB861536	4TBG861536R0100	MB861537	4TBG861537R0100	
cutout	C = 165	MB861650	4TBG861650R0100	MB861538	4TBG861538C0100	MB861539	4TBG861539C0100	
	A = 90	MB861702	4TBG861702R0100					
Smooth	B = 111	MB861704	4TBG861704C0100					
	C = 165	MB861706	4TBG861706C0100					
		MB 75 HxL	. = 254 x 180mm					
With a metric	A = 90	MB861654	4TBG861654R0100	MB861542	4TBG861542C0100	MB861543	4TBG861543C0100	
cutout	B = 111	MB861656	4TBG861656R0100	MB861544	4TBG861544R0100	MB861545	4TBG861545R0100	
	C = 165	MB861658	4TBG861658C0100	MB861546	4TBG861546R0100	MB861547	4TBG861547R0100	
	A = 90	MB861710	4TBG861710R0100					
Smooth	B = 111	MB861712	4TBG861712R0100					
	C = 165	MB861714	4TBG861714R0100					
		MB 87 HxL	. = 361 x 254mm					
With a metric	B = 111	MB861662	4TBG861662R0100	MB861550	4TBG861550C0100	MB861551	4TBG861551R0100	
cutout	C = 165	MB861664	4TBG861664R0100	MB861552	4TBG861552C0100	MB861553	4TBG861553C0100	
Smooth	B = 111	MB861718	4TBG861718C0100					
	C = 165	MB861720	4TBG861720R0100					

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

Pack = 1

Table of dimensions

Table of allifelist	10115		
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	

General purpose enclosuresMultiBox - Small boxes for all types of application





Mounting plate (insulated)		DIN profile 35 x 7.5 x 1	
Туре	Order code	Туре	Order code
150x90mm			
MB861737	4TBG861737R0100		
150 x 150 mm		L=144	
NABOCA 700	4TB C0C4 700 B04 00	long side	478606474080400
MB861738	4TBG861738R0100	MB861748	4TBG861748R0100
220x150mm		L=216	
		long side	
MB861739	4TBG861739R0100	MB861749	4TBG861749R0100
331 x 220mm		L=336	
		long side	
MB861740	4TBG861740R0100	MB861750	4TBG861750C0100

MultiBox - Accessories

Product	Type	Order code	Pack
Coupling kit			
For assembling multiple boxe	s horizontally a	nd/or vertically	
1	① Small M20		
	MB861753	4TBG861753C0100	5
	① Small M25		
	MB861754	4TBG861754C0100	5
	① Small M32		
	MB861755	4TBG861755C0100	5
2	② Large from	MB 53	
	MB861756	4TBG861756C0100	1
0088			

om MB 53
58 4TBG861758R0100 1

Fixing lugs			
For external securing of the en	ntire range		
- A	1 set of 4 lugs	3	
G 34	MB861759	4TBG861759C0100	1
4- V			

W.	
Spacers	
Plastic material (6 + 8 mm the mounting plate and t	n), sets the distance between the boxes or he base of the box
	1 set of 8 parts. (includes securing screws)
	MB861762 4TBG861762C0100 1



IP66 double membrane connection. For assembly without locking nuts. Membrane includes 2 integral seals								
	M16							
	MB861724	4TBG861724R0100	50					
	M20							
	MB861725	4TBG861725R0100	50					
	M25							
	MB861726	4TBG861726R0100	50					
	M32							
	MB861727	4TBG861727C0100	25					

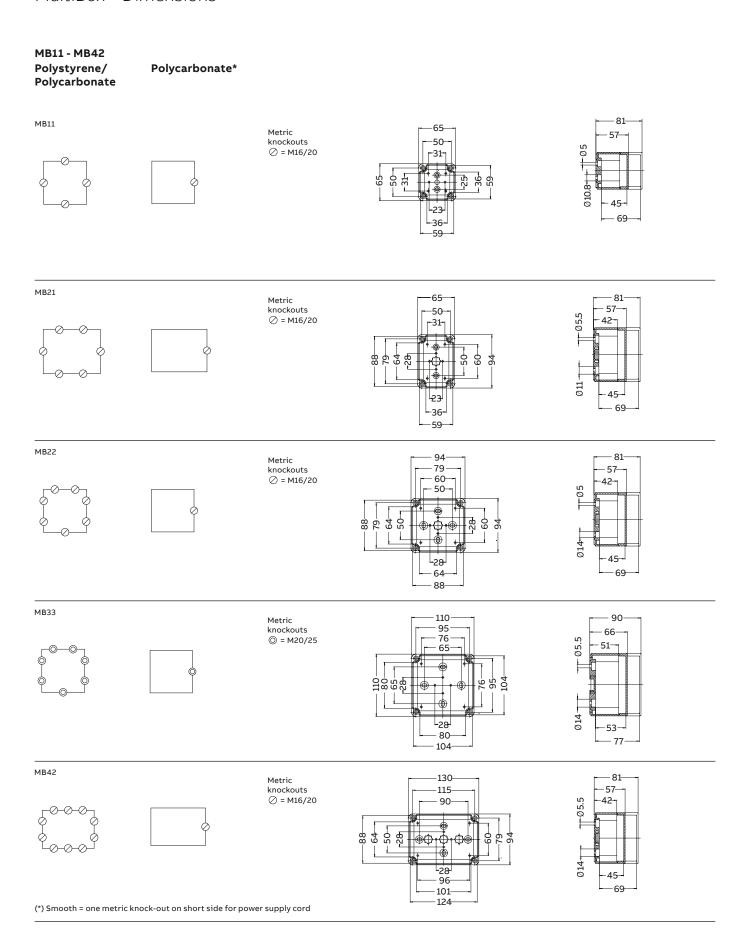
IP66 double membrane nipple

Vent (IPx4)	
Provides ventilation and prevents condensation. Vents should	
preferably be installed in the upper and lower sections of the box.	

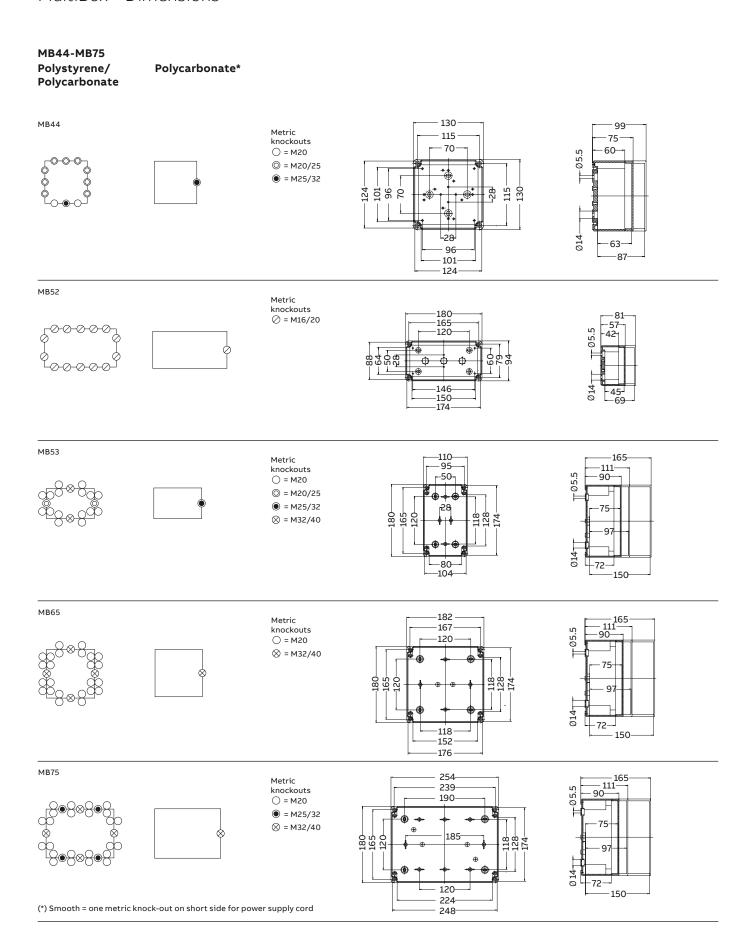


Cover screws			
(plastic, green in color)			
	Short for the o	over.	
	MB861769	4TBG861769R0100	20
	Long for the co	over.	
	MB861770	4TBG861770C0100	20

MultiBox – Dimensions

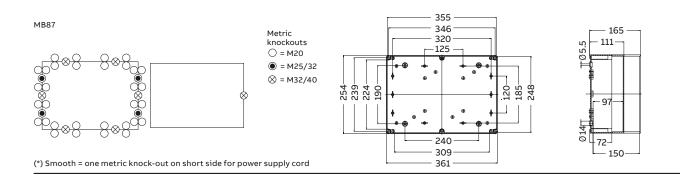


MultiBox – Dimensions



MultiBox – Dimensions

MB87
Polystyrene/ Polycarbonate*
Polycarbonate



MultiBox – Power dissipation values

Rear against wall				Temperature rise [Kelvin]								
H×W (mm) Depth (mm) DISSIPATION	MB11 65×65 57	MB11 65×65 81	MB21 94×65 57	MB21 94×65 81	MB22 94×94 57	MB22 94×94 81	MB33 110×110 66	MB33 110×110 90	MB42 130×94 57	MB42 130×94 81	MB44 130×130 75	MB44 130×130 99
Watt	Тор	Тор	Тор	Тор	Тор	Тор	Тор	Тор	Тор	Тор	Тор	Тор
1	1									1		
2												
3												
4	45											
5	55	45	45									
6				45								
7	65	55	55		45							
8	75	65	65	55		45			45			
9					55		45					
10		75	75	65	65	55			55	45		
11							55	45				
12				75						55	45	
13					75	65		55	65			
14							65				55	45
15						75		65	75	65	65	55
20							75	75		75	75	65
25												75

Rear agains	Rear against wall Temperature rise [Kelvin]												
H×W (mm) Depth (mm) DISSIPATION	MB52 180×94 57	MB52 180×94 81	MB53 180×110 90	MB53 180×110 111	MB53 180×110 165	MB65 182×180 90	MB65 182×180 111	MB65 182×180 165	MB75 254×180 90	MB75 254×180 111	MB75 254×180 165	MB87 361×254 111	MB87 361×254 165
Watt	Тор	Тор	Тор	Тор	Тор	Тор	Тор	Тор	Тор	Тор	Тор	Тор	Тор
10	45	45											
15	55	55	45										
16	65			45									
17													
18			55										
19	75	65											
20			65	55	45	45							
25		75	75	65	55	55	45		45				
30				75	65	65	55	45	55	45			
35							65	55		55			
40					75	75	75		65		45		
45								65	75	65		45	
50								75		75	55		
55													
60											65	55	45
65													
70											75	65	55
75													
80													
85												75	65
90													
95													
100													75
105													
110													

Notes

02

APO

APO Index

APO

•	
Modular polyester boxes	20
Accessories	26
Functions for modular equipment	29
Stand-alone equipped boxes	30
APO 61 - 🔲 IP44-IK10 distribution enclosures	31
Dimensional drawings - Bases	32
Dimensional drawings for mounting	33
Dimensional drawings - Cut-outs in side panels	34
Dimensional drawings - Cable-end boxes	35
Power dissipation values	36

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 Standards/Certification • The range cor



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

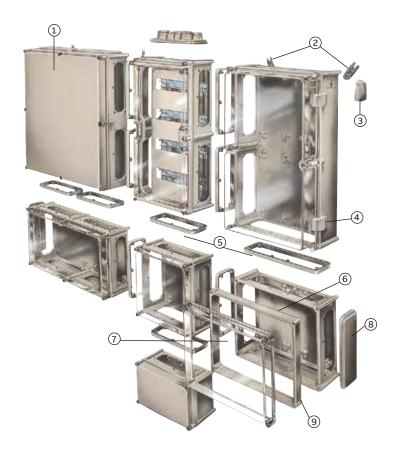
Lloyd's Register of Shipping

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

 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 CSAcertified.

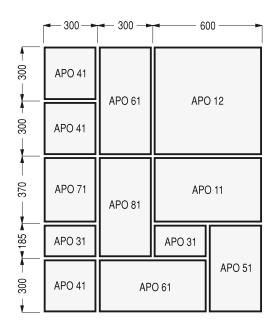
APO - Modular polyester boxes

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	rubber cable entry	IP43/54 ⁽²⁾				
Cabinet comb	pination(s)	IP67 ⁽¹⁾				
Cabinet with	IP66					

- (1) Depending on cover used
- (2) IP54 if cable entry is mounted at the bottom of the cabinet.

APO - Modular polyester boxes

	,	Туре	APO 1	APO 31	APO 41	APO 71
	Enclosure with	HxWxD	186×151×140	302 x 186 x 175	302x302x175	300x300x175
	polyester cover	Type	AP1P	AP31P	AP41P	AP71P
	□ IP67	Order code	4TBO856048C0100	4TBO856049C0100	4TBO856050C0100	4TBO856051C0100
	Solid cover with securing screws					
	Enclosure with	HxWxD	185×151×140	300x185x175	300x300x175	370×300×175
14	polycarbonate cover:	Туре	AP1T	AP31T	AP41T	AP71T
	□ IP66		4TBO856057C0100	4TBO856058C0100	4TBO856059C0100	4TBO856060C0100
	Transparent cover with securing screws					
	Enclosure with	HxWxD		300 x 185 x 175	300 x 300 x 175	370×300×175
100	pivoting cover	Type	-	AP31THC	AP41THC	AP71THC
	□ IP67	Order code		4TBO856066C0100	4TBO856067C0100	4TBO856068C0100
	Transparent cover with clip-in buttons					
	Enclosure with	HxWxD	185×151×140	300×185×175	300 x 300 x 175	370×300×175
-	hinged cover	Type	AP1PHC	AP31PHC	AP41PHC	AP71PHC
11	□ IP55	Order code	4TBO856071C0100	4TBO856072C0100	4TBO856073C0100	4TBO856074C0100
	Solid cover					
	1					1

Pack = 1

APO - Modular polyester boxes

•	•	•	•

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

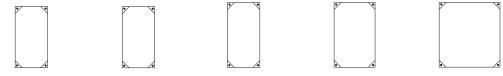
485x300x175		600x300x175		
AP51THC	-	AP61THC	-	-
4TBO856069C0100		4TBO856070C0100		

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

APO - Modular polyester boxes

				~ ~	*	
		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
	base with sona wans	Туре	AP1B	AP31B	AP41B	AP71B
			4TBO856000C0100	4TBO856001C0100	4TBO856002C0100	4TBO856003C0100
100		Pack	4	4	1	4
Commence of the last of the la				<u> </u>		·
	Base with 2 open	HxWxD		302 x 186 x 131	302 x 302 x 131	372 x 302 x 131
1	walls	Туре	-	AP31B2	AP41B2	AP71B2
100	The dimensions with	Order code		4TBO856009C0100	4TBO856010C0100	4TBO856011C0100
- 3	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
E 100		Pack		4	4	4
	Polyester cover	HxWxD	186 x 151 x 45	302 x 186 x 45	302 x 302 x 45	372 x 302 x 45
		Туре	AP1PC	AP31PC	AP41PC	AP71PC
	Solid cover including		4TBO856025C0100	4TBO856026C0100	4TBO856027C0100	4TBO856028C0100
	securing screws	Pack	4	4	4	4
			100 151 15	200 100 15	200 200 45	272 202 45
	Polycarbonate cover		186 x 151 x 45 AP1TC	302 x 186 x 45	302 x 302 x 45	372 x 302 x 45
THE COURSE OF THE PARTY OF THE	Transparent cover	Type Order code	4TBO851196C0100	AP31TC	AP41TC	AP71TC
8 1111	with securing screws	HxWxD	41BO651196C0100	4TBO851173C0100	4TBO851277C0100	4TBO851176C0100
	3	Туре	-	-	-	_
		Order code				
14		Pack	4	4	4	4
				<u> </u>	<u> </u>	·
	Pivoting cover	HxWxD		302 x 186 x 35	302 x 302 x 45	372 x 302 x 45
-	Transparent cover	Туре	-	AP31STHC	AP41STHC	AP71STHC
9	with clip-in buttons	Order code		4TBO856034C0100	4TBO856035C0100	4TBO856036C0100
Jane 1	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	Туре	AP1DE	AP31DE	AP41DE	AP71DE
1 1 3 m	B	Order code	4TBO856040C0100	4TBO856041C0100	4TBO856042C0100	4TBO856043C0100
	Reinforced with PA6	Pack	4	4	4	4
	polyamide glass fiber					
	Mounting plate	HxWxD	140 x 105	228 x 139	254 x 228	298 x 254
	Pertinax 5 mm	Туре	AP1MHP	AP31MHP	AP41MHP	AP71MHP
	Galvanized steel Sendzimir 2 mm		4TBO851190C0100	4TBO851187C0100	4TBO851278C0100	4TBO851181C0100
	Senuzinni Zillili	HxWxD	134 x 99	249 x 134	249 x 249	319 x 249
	1.5 mm perforated	Туре	AP1MS	AP31MS	AP41MS	AP71MS
dill	plate		4TBO851191C0100	4TBO851188C0100	4TBO851279C0100	4TBO851185C0100
	(Slide nuts, see I.22)	HxWxD	134 x 99	249 x 134	249 x 249	319 x 249
		Туре	-	AP31MSP	AP41MSP	AP71MSP
		Order code		4TBO852875C0100	4TBO852876C0100	4TBO852877C0100
		Pack	1	1	1	1

APO - Modular polyester boxes



## 488 x 302 x 131	APO 51	APO 81	APO 61	APO 11	APO 12
### ### ### ### ### ### ### ### ### ##	488 x 302 x 131	558 x 302 x 131	603 x 302 x 131	603 x 372 x 131	603 x 603 x 131
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	AP51B	AP81B	AP61B	AP11B	AP12B
### ### ### ### ### ### ### ### ### ##	4TBO856004C0100	4TBO856005C0100	4TBO856006C0100	4TBO856007C0100	4TBO856008C0100
AP5182	2	2	2	2	2
AP5182					
4TB0856012C0100 4TB0856013C0100 4TB0856014C0100 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	488 x 302 x 131	558 x 302 x 131	603 x 302 x 131	603 x 372 x 131	603 x 603 x 131
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	AP51B2	AP81B2	AP61B2	AP11B2	AP12B2
### ### ### ### ### ### ### ### ### ##	4TBO856012C0100	4TBO856013C0100	4TBO856014C0100	4TBO856015C0100	4TBO856016C0100
AP51B4 AP81B4 AP61B4 AP61B4 AP1B4 AP1B4 AP12B4 4TB0856020C0100 4TB0856021C0100 4TB0856023C0100 4TB0856024C0100 2	2	2	2	2	2
AP51B4 AP81B4 AP61B4 AP61B4 AP1B4 AP1B4 AP12B4 4TB0856020C0100 4TB0856021C0100 4TB0856023C0100 4TB0856024C0100 2					
### ### ### ### ### ### ### ### ### ##	488 x 302 x 131	558 x 302 x 131	603 x 302 x 131	603 x 372 x 131	603 x 603 x 131
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	AP51B4	AP81B4	AP61B4	AP11B4	AP12B4
488 x 302 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 4TB0856029C0100 4TB0856030C0100 4TB0856031C0100 4TB0856032C0100 4TB0856033C0100 2 2 2 2 2 2 2 2 2 488 x 302 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 4TB0852092C0100 4TB0851193C0100 4TB0851282C0100 4TB0851290C0100 4TB0851280C0100	4TBO856020C0100	4TBO856021C0100	4TBO856022C0100	4TBO856023C0100	4TBO856024C0100
AP51PC AP81PC AP61PC AP1PC AP11PC AP12PC 4TB0856029C0100 4TB0856030C0100 4TB0856031C0100 4TB0856032C0100 4TB0856033C0100 2 2 2 2 2 488 x 302 x 80 558 x 302 x 80 603 x 302 x 80 603 x 372 x 80 603 x 603 x 80 AP51PC AP81CP AP61PC AP1TPC AP12PC 4TB0852092C0100 4TB0851193C0100 4TB0851282C0100 4TB0851290C0100 4TB0852280C0100	2	2	2	2	2
AP51PC AP81PC AP61PC AP1PC AP11PC AP12PC 4TB0856029C0100 4TB0856030C0100 4TB0856031C0100 4TB0856032C0100 4TB0856033C0100 2 2 2 2 2 488 x 302 x 80 558 x 302 x 80 603 x 302 x 80 603 x 372 x 80 603 x 603 x 80 AP51PC AP81CP AP61PC AP1TPC AP12PC 4TB0852092C0100 4TB0851193C0100 4TB0851282C0100 4TB0851290C0100 4TB0852280C0100					
AP51PC AP81PC AP61PC AP1PC AP11PC AP12PC 4TB0856029C0100 4TB0856030C0100 4TB0856031C0100 4TB0856032C0100 4TB0856033C0100 2 2 2 2 2 488 x 302 x 80 558 x 302 x 80 603 x 302 x 80 603 x 372 x 80 603 x 603 x 80 AP51PC AP81CP AP61PC AP1TPC AP12PC 4TB0852092C0100 4TB0851193C0100 4TB0851282C0100 4TB0851290C0100 4TB0852280C0100	488 x 302 x 45	558 x 302 x 45	603 x 302 x 45	603 x 372 x 45	603 x 603 x 45
### ### ##############################					
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4TBO856029C0100	4TBO856030C0100	4TBO856031C0100	4TBO856032C0100	4TBO856033C0100
AP51TC AP81CP AP61TC AP11TC AP12TC 4TB0852092C0100 4TB0851193C0100 4TB0851282C0100 4TB0851290C0100 4TB0852280C0100 - - - - - - 2 2 2 2 2 488 x 302 x 45 603 x 302 x 45 603 x 372 x 115 - AP51STHC - AP61STHC AP11STHC - 4TB0856037C0100 4TB0856038C0100 4TB0856039C0100 ⁽⁶⁾ - 2 2 2 2 - AP81DE AP61DE AP11DE AP12DE 4TB0856044C0100 4TB0856045C0100 4TB0856046C0100 4TB0856047C0100 2 2 2 2 413 x 254 484 x 254 528 x 254 528 x 324 555 x 555 AP51MHP AP81MHP AP61MHP AP11MHP AP11MHP AP12MHP 4TB0852091C0100 4TB0851170C0100 4TB0851286C0100 4TB0851289C0100 4TB0851274C0100 435 x 249 505 x 249 550 x 249 550 x 319 550 x 555 AP51MS AP61MS					
AP51TC AP81CP AP61TC AP11TC AP12TC 4TB0852092C0100 4TB0851193C0100 4TB0851282C0100 4TB0851290C0100 4TB0852280C0100 - - - - - - 2 2 2 2 2 488 x 302 x 45 603 x 302 x 45 603 x 372 x 115 - AP51STHC - AP61STHC AP11STHC - 4TB0856037C0100 4TB0856038C0100 4TB0856039C0100 ⁽⁶⁾ - 2 2 2 2 - AP81DE AP61DE AP11DE AP12DE 4TB0856044C0100 4TB0856045C0100 4TB0856046C0100 4TB0856047C0100 2 2 2 2 413 x 254 484 x 254 528 x 254 528 x 324 555 x 555 AP51MHP AP81MHP AP61MHP AP11MHP AP11MHP AP12MHP 4TB0852091C0100 4TB0851170C0100 4TB0851286C0100 4TB0851289C0100 4TB0851274C0100 435 x 249 505 x 249 550 x 249 550 x 319 550 x 555 AP51MS AP61MS					
AP51TC AP81CP AP61TC AP11TC AP12TC 4TB0852092C0100 4TB0851193C0100 4TB0851282C0100 4TB0851290C0100 4TB0852280C0100 - - - - - - 2 2 2 2 2 488 x 302 x 45 603 x 302 x 45 603 x 372 x 115 - AP51STHC - AP61STHC AP11STHC - 4TB0856037C0100 4TB0856038C0100 4TB0856039C0100 ⁽⁶⁾ - 2 2 2 2 - AP81DE AP61DE AP11DE AP12DE 4TB0856044C0100 4TB0856045C0100 4TB0856046C0100 4TB0856047C0100 2 2 2 2 413 x 254 484 x 254 528 x 254 528 x 324 555 x 555 AP51MHP AP81MHP AP61MHP AP11MHP AP11MHP AP12MHP 4TB0852091C0100 4TB0851170C0100 4TB0851286C0100 4TB0851289C0100 4TB0851274C0100 435 x 249 505 x 249 550 x 249 550 x 319 550 x 555 AP51MS AP61MS	488 x 302 x 80	558 x 302 x 80	603 x 302 x 80	603 x 372 x 80	603 x 603 x 80
4TB0852092C0100 4TB0851193C0100 4TB0851282C0100 4TB0851290C0100 4TB0852280C0100 - - - - - - 2 2 2 2 2 488 x 302 x 45 603 x 302 x 45 603 x 372 x 115 - AP51STHC - AP61STHC AP11STHC - 4TB0856037C0100 4TB0856038C0100 4TB0856039C0100 ^(h) - 2 2 2 2 - AP81DE AP61DE AP11DE AP12DE 4TB0856044C0100 4TB0856045C0100 4TB0856046C0100 4TB0856047C0100 2 2 2 2 413 x 254 484 x 254 528 x 254 528 x 324 555 x 555 AP51MHP AP81MHP AP61MHP AP11MHP AP12MHP 4TB0852091C0100 4TB0851170C0100 4TB0851289C0100 4TB0851289C0100 4TB0852174C0100 435 x 249 505 x 249 550 x 249 550 x 319 550 x 555 AP51MS AP81MS AP61MS					
603 x 302 x 45					
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2					
488 x 302 x 45 603 x 302 x 45 603 x 372 x 115 AP51STHC - AP61STHC AP11STHC - 4TB0856037C0100 4TB0856038C0100 4TB0856039C0100 4TB0851289C0100 4TB0852178C0100 4TB0851289C0100 4TB0851289C0100 4TB0852178C0100 4TB0852878C0100 4TB0852878C0100 4TB0852878C0100 4TB0852878C0100	-	-	-	-	-
488 x 302 x 45 603 x 302 x 45 603 x 372 x 115 AP51STHC - AP61STHC AP11STHC - 4TB0856037C0100 4TB0856038C0100 4TB0856039C0100 4TB0851289C0100 4TB0852178C0100 4TB0851289C0100 4TB0851289C0100 4TB0852178C0100 4TB0852878C0100 4TB0852878C0100 4TB0852878C0100 4TB0852878C0100					
488 x 302 x 45 603 x 302 x 45 603 x 372 x 115 AP51STHC - AP61STHC AP11STHC - 4TB0856037C0100 4TB0856038C0100 4TB0856039C0100 4TB0851289C0100 4TB0852178C0100 4TB0851289C0100 4TB0851289C0100 4TB0852178C0100 4TB0852878C0100 4TB0852878C0100 4TB0852878C0100 4TB0852878C0100	2	2	2	2	2
AP51STHC - AP61STHC AP11STHC - 4TB0856037C0100 4TB0856039C0100 (3) 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				_	
AP51STHC - AP61STHC AP11STHC - 4TB0856037C0100 4TB0856039C0100 (3) 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	488 x 302 x 45		603 x 302 x 45	603 x 372 x 115	
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2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2					
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- AP81DE AP61DE AP11DE AP12DE 4TB0856044C0100 4TB0856045C0100 4TB0856046C0100 4TB0856047C0100 2 2 2 2 2 2 413 x 254 484 x 254 528 x 254 528 x 324 555 x 555 AP51MHP AP81MHP AP61MHP AP11MHP AP12MHP 4TB0852091C0100 4TB0851170C0100 4TB0851286C0100 4TB0851289C0100 4TB0852174C0100 435 x 249 505 x 249 550 x 249 550 x 319 550 x 555 AP51MS AP81MS AP61MS AP11MS AP12MS 4TB0852095C0100 4TB0851171C0100 4TB0851287C0100 4TB0851292C0100 4TB0852178C0100 435 x 249 505 x 249 550 x 249 550 x 319 550 x 555 AP51MS AP81MS AP61MS AP11MS AP12MS 4TB0852095C0100 4TB0851171C0100 4TB0851287C0100 4TB0851292C0100 4TB0852178C0100 435 x 249 505 x 249 550 x 249 550 x 319 550 x 555 AP51MSP	-	558 x 302 x 60	603 x 302 x 60	603 x 372 x 60	603 x 603 x 60
4TB0856044C0100 4TB0856045C0100 4TB0856046C0100 4TB0856047C0100 2 2 2 2 2 2 413 x 254 484 x 254 528 x 254 528 x 324 555 x 555 AP51MHP AP81MHP AP61MHP AP11MHP AP12MHP 4TB0852091C0100 4TB0851170C0100 4TB0851286C0100 4TB0851289C0100 4TB0852174C0100 435 x 249 505 x 249 550 x 249 550 x 319 550 x 555 AP51MS AP81MS AP61MS AP11MS AP12MS 4TB0852095C0100 4TB0851171C0100 4TB0851287C0100 4TB0851292C0100 4TB0852178C0100 435 x 249 505 x 249 550 x 249 550 x 319 550 x 555 AP51MSP	-				
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2					
413 x 254					
AP51MHP AP81MHP AP61MHP AP11MHP AP12MHP 4TB0852091C0100 4TB0851170C0100 4TB0851286C0100 4TB0851289C0100 4TB0852174C0100 435 x 249 505 x 249 550 x 319 550 x 555 AP51MS AP81MS AP61MS AP11MS AP12MS 4TB0852095C0100 4TB0851171C0100 4TB0851287C0100 4TB0851292C0100 4TB0852178C0100 435 x 249 505 x 249 550 x 249 550 x 319 550 x 555 AP51MSP - - - - 4TB0852878C0100 4TB0852878C0100 - - -					
AP51MHP AP81MHP AP61MHP AP11MHP AP12MHP 4TB0852091C0100 4TB0851170C0100 4TB0851286C0100 4TB0851289C0100 4TB0852174C0100 435 x 249 505 x 249 550 x 319 550 x 555 AP51MS AP81MS AP61MS AP11MS AP12MS 4TB0852095C0100 4TB0851171C0100 4TB0851287C0100 4TB0851292C0100 4TB0852178C0100 435 x 249 505 x 249 550 x 249 550 x 319 550 x 555 AP51MSP - - - - 4TB0852878C0100 4TB0852878C0100 - - -	413 x 254	484 x 254	528 x 254	528 x 324	555 x 555
4TB0852091C0100 4TB0851170C0100 4TB0851286C0100 4TB0851289C0100 4TB0852174C0100 435 x 249 505 x 249 550 x 319 550 x 555 AP51MS AP81MS AP61MS AP11MS AP12MS 4TB0852095C0100 4TB0851171C0100 4TB0851287C0100 4TB0851292C0100 4TB0852178C0100 435 x 249 505 x 249 550 x 249 550 x 319 550 x 555 AP51MSP - - - - 4TB0852878C0100 - - - -					
435 x 249 505 x 249 550 x 249 550 x 319 550 x 555 AP51MS AP81MS AP61MS AP11MS AP12MS 4TB0852095C0100 4TB0851171C0100 4TB0851287C0100 4TB0851292C0100 4TB0852178C0100 435 x 249 505 x 249 550 x 249 550 x 319 550 x 555 AP51MSP - - - - 4TB0852878C0100 - - - -					
AP51MS AP81MS AP61MS AP11MS AP12MS 4TB0852095C0100 4TB0851171C0100 4TB0851287C0100 4TB0851292C0100 4TB0852178C0100 435 x 249 505 x 249 550 x 319 550 x 555 AP51MSP - - - 4TB0852878C0100 - - -					
4TB0852095C0100 4TB0851171C0100 4TB0851287C0100 4TB0851292C0100 4TB0852178C0100 435 x 249 505 x 249 550 x 319 550 x 555 AP51MSP - - - 4TB0852878C0100 - - -					
435 x 249 505 x 249 550 x 249 550 x 319 550 x 555 AP51MSP - - - - 4TB0852878C0100 - - - -					
AP51MSP 4TB0852878C0100					
4TBO852878C0100				-	-
		1	1	1	1
					-

(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
13xM25/20	370	APEP372	4TBO856102C0100	1

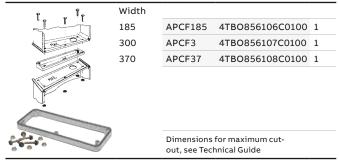


		re plates Width			_
6	1	185	APBP185	4TBO856103C0100	1
		300	APBP3	4TBO856104C0100	1
		370	APBP37	4TBO856105C0100	1
VD					
		1			

Product	Туре	Order code	Pack
Coupling frames		,	
Made of glass fiber-reinforce	d polyamide.	,	

- Supplied with a template.
- The slimmest section of the frame must be mounted toward the front of the base.
- The maximum obtainable passage between two bases is that indicated by the template.

The required number of openings may be applied within this space.



Cable	end box	es				
For walls	Type	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⁾



For attaching directly inside the cable end box. Cable max. Ø: 75mm Used on APO 31 and APO 71 For 185, 300 and 370 mm enclosures



AP31CC75 4TBO851105C0100 1 Universal cable grip clamp Cable max. Ø: 75mm

Used on APO 41 For 300, 370 and 600mm enclosures



Additional bracket for attaching to the clamp support. Cable max. Ø: 75mm



4TBO851111C0100 1 APCC75

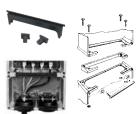
(1) See Technical Guide

APO - Accessories

Product	Type	Order code	Pack
Rubber cable entry			
- For direct mounting - Supplied with a template			
	APRCS	4TBO851106C0100	1
50		102	
20 27 -34 -41 -48 -55 -52 -59 -74	1	145	
	For creating		

Cable routing insert

Makes connecting large-section cables simple while maintaining the original level of protection.



For 300 mm si	de.	
APBR3	4TBO851103C0100	1
For 370 mm sig	de.	
APBR37	4TBO851112C0100	1

Order code **Product** Туре Pack IP44 Vent

Install 2 vents per enclosure for ventilation to prevent the formation of

Supplied with a template and fixings. Recommended installation: one vent at the highest and lowest points on each side of the enclosure.



Set of 2 polyamide pieces. **RAL** 7035 PS833677 4TBP833677C0100 1



Pedestal mounting

- The C profiles are mounted directly to the rear of the base using the $\,$ bosses provided.
- The brackets may be distributed along the length of the C profile according to the width of the pedestal.

APPM



Set of 2 C profiles and screws. For enclosure 300 and 370 mm side.

4TBO890510C2100 1





Locks(1)

 $Supplied\ with\ drilling\ template\ and\ mounting\ accessories.$



Handle with 2 keys V2432E

4TBO852020C0100 1

(1) Not for use with pivoting cover

Fixing lugs

Set of 4 supports and screws, in glass fiber-reinforced polyamide.



- For external mounting points.
- Direct mounting through the 4 corner holes of the enclosure.
- If using depth extension frames, first attach the supports.
- Max equipment weight: 100 kg.

APMBPA 4TBO851266C0100 1

Set of 4 stainless supports and screws (304-type)



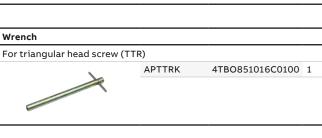
- For very severe operating conditions.
- The 4 brackets are mounted directly onto the rear of the base in the section that is reinforced for this purpose.
- Mounting by means of M4 threaded inserts (provided).
- Max equipment weight: 100 kg.

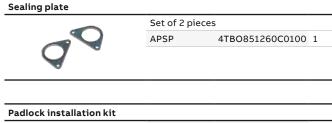
APMBRVS 4TBO852025C0100 1

APO - Accessories

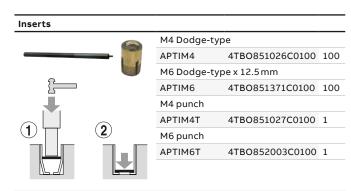
Product					Type	Orde	code	Pack
Hinges								
Туре		Ту	ре	Hir	nges			
	P	-	Α	Α	APHA	4TBO	856109C0100	1
1	ф.		В	В	APHB	4TBO	856110C0100	1
		φ-	С	С	APHC	4TBO	856111C0100	1
W 4- W	\	<u> </u>	D	D	APHD	4TBO	856112C0100	1
- 688g	\uparrow		Ε	Е	APHE	4TBO	856113C0100	1
980		ф <u>-</u>	F	F	APHF	4TBO	856114C0100	1
Options table	¥	₩ Back I	оох					
	APO	31-41-7	'1-51	- If	hinges a	re to be i	nstalled, the co	ver
		81-61-1	1-12				depth extens	ion
Polyester cover	Α	А		te	emplates	are provi	ed. Drilling ded; the type t	
Polyester cover + depth	В	С		C	ombinati	on select	depend on the ed. a range of 6 ki	

BO851256C0100	1
BO851256C0100	1
BO851256C0100	1
	_
	ust be secured rip hinges.





Padlock installation kit									
	APPL	4TBO852004C0100 1							
	Maximum shackle diameter: 8mm								



Stainless hinges

extension

ate cover

Polycarbon-

Polycarbonate cover + depth extension frame

frame



Set of 2 steel hinges (complete with accessories)

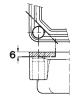
comprising 2 hinges, fixing hardware,

APHRVS 4TBO851268C0100 1

drilling template,

instructions and optional

reinforcement plates.



For installation, the cover must be milled along the dotted line to a depth of 6 mm (see diagram).

Cover screws



 Cover screws
 APCS
 4TBO851255C0100
 50

Clip-in button





 Set of 2 pieces

 APCS2
 4TBO851258C0100
 1

APO - Functions for modular equipment

Туре		APO 31	APO 41	APO 71	APO 51	APO 61
		· Promote	* MOONE	150	150	150
		302 x 186	302 x 302	372 x 302	488 x 302	603 x 302
		14 modules	14 modules	28 modules	42 modules	42 modules
	Туре	AP31D141	AP41D141	AP71D282	APACC852283	AP61D423
011172-	Order code	4TBO851326C0100	4TBO851336C0100	4TBO851353C0100	4TBO852283C0100	4TBO851345C0100
Functions for modular equipment Includes: - Bare chassis, equipped with a ground terminal and a front plate Securing screws.		125	125	125		125 • 125 • 125
- 4 x 30mm rise pillars.		302 x 186	302 x 302	372 x 302		603 x 302
		14 modules	28 modules	36 modules		56 modules
	Туре	AP31D142	AP41D282	AP71D362		AP61D564
	Order code	4TBO851330C0100	4TBO851338C0100	4TBO851358C0100		4TBO851347C0100

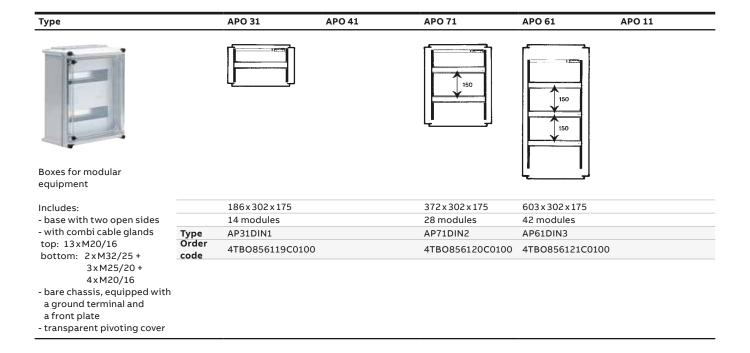
Accessories



Type	Order code	Pack
Adhesive		
APLB1M	4TBC851321C0100	1m
	Adhesive	Adhesive



APO - Stand-alone equipped boxes



APO 61 - P44-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.
- $3 \times 230 \text{ V/} 3 \times 400 \text{ V+N}$ network inverter.
- Dimensions: 600x300x175mm

APO 61

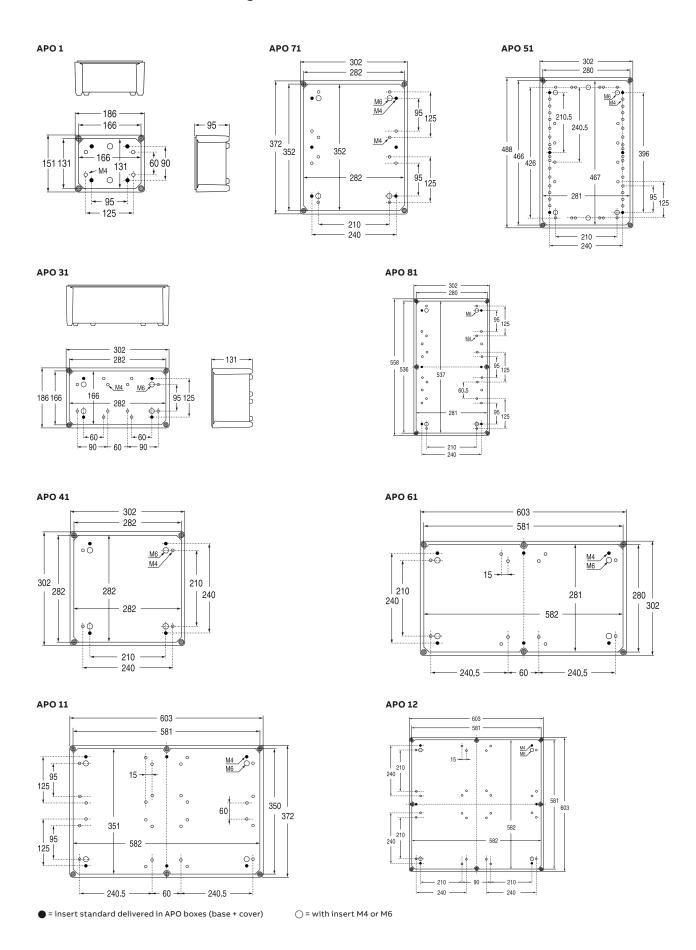
Distribution enclosures with industrial and domestic power outlets

	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	35.N + 37.N + 37	AP61BWK32AH	4TBO890501N2100
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	Table Plant of the state of the	AP61BWK63AH	4TBO890502N2100

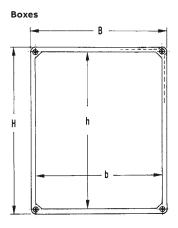
Distribution enclosures with industrial power outlets

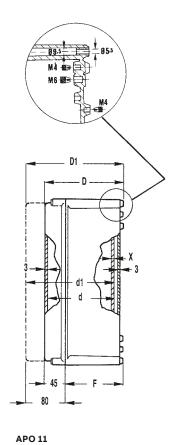
	Equipment	Single-line diagram	Туре	Order code
32 A type	1 x 32 A 5P 6h 400 V EEC power outlet 1 x 16 A 5P 6h 400 V EEC power outlet 4 x 16 A 3P 6h 400 V EEC power outlets Inverter 3P+N 400V / 3x230 V Protection: 1 Diff-o-Jump type A 4P 40 A 300 mA 1 6 kA 3P+N 25 A Car. C. circuit breaker 1 x 6 kA 3P+N 16 A car. C. circuit breaker 4 x 6kA 2P 16 A car. C circuit breaker	35.Nr = 30.Nr = 10.0 MA 10.0 M	AP61BWK32AIND	4TBO890505N2100

APO - Dimensional drawings - Bases



APO - Dimensional drawings for mounting



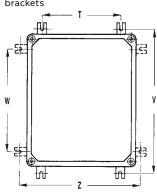


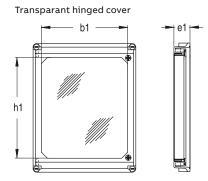
Wall mounting

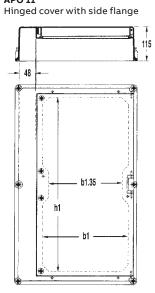
Direct to the wall

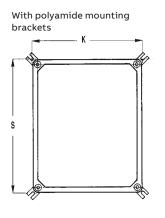
K

With stainless steel mounting brackets





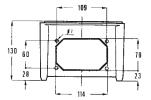




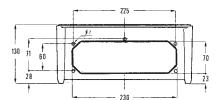
Dime	nsions																			
Н	В	D	D1	h	b	d	d1	F	h1	b1	e1	Type	K	М	R	S	Т	V	W	Z
186	151	140	-	166	131	118-X	-	95	-	-	-	APO 1	131	166	155	190	-	-	-	-
302	186	175	-	282	166	150-X	-	130	110	260	45	APO 31	282	166	190	306	125	312	241	197
302	302	175	-	282	282	150-X	-	130	225	260	45	APO 41	282	282	306	306	241	313	241	313
372	302	175	-	352	282	150-X	-	130	295	260	45	APO 71	282	352	376	306	241	383	311	313
488	302	175	210	467	281	150-X	185-X	130	410	260	45	APO 51	280	466	490	304	241	499	427	313
558	302	175	210	537	281	150-X	185-X	130	-	-	-	APO 81	280	536	561	305	241	569	497	313
603	302	175	210	582	281	150-X	185-X	130	525	260	45	APO 61	280	581	606	305	241	614	542	313
603	372	175	210	582	351	150-X	185-X	130	525	260	115	APO 11	350	581	606	374	311	614	542	383
603	603	175	210	582	582	150-X	185-X	130	-	-	-	APO 12	581	581	605	605	542	614	542	614

APO - Dimensional drawings - Cut-outs in side panels

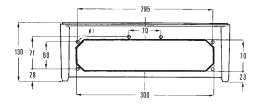
Side 185



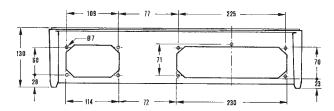
Side 300



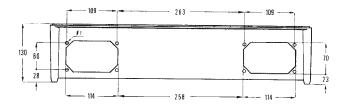
Side 370



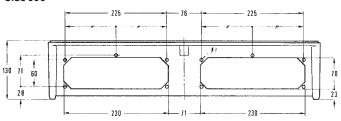
Side 485



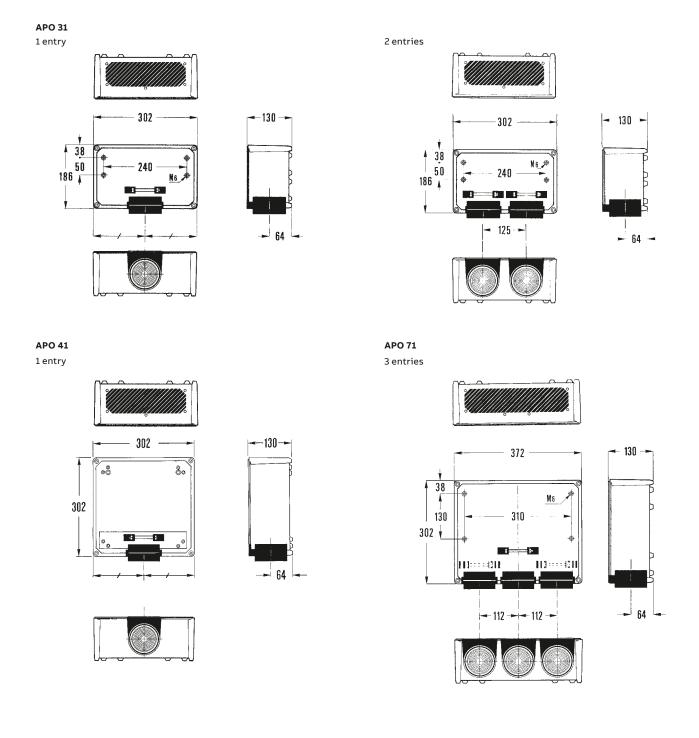
Side 555



Side 600



APO - Dimensional drawings - Cable-end boxes



APO - Power dissipation values

Rear ag	gainst	wall						Temperature rise [Kelvin]										
Dissipa-	APO 1 185×150×130		APO 31 300×185×175				APO 7	1	APO 5	1	APO 8	1	APO 6	1	APO 1	1	APO 12	
tion							370×300×175		485×3	485×300×175		555×300×175		00×175	600×370×175		600×600×175	
Watt	Half	Top	Half	Top	Half	Тор	Half	Top	Half	Top	Half	Top	Half	Top	Half	Top	Half	Top
5	12	14	7	9	6	7	5	6	4	5	4	5	4	5	3	4	3	3
10	20	25	12	15	10	12	9	11	8	9	7	9	7	8	6	7	4	5
15	28	34	17	21	14	16	12	15	10	13	10	12	9	11	8	10	6	7
20	36	43	22	27	17	20	15	19	13	16	12	15	11	14	10	13	8	9
25	43	52	26	32	21	24	18	22	16	19	14	18	14	17	12	15	9	11
30			30	37	24	28	21	26	18	22	17	21	16	20	14	17	11	13
40			38	47	30	36	27	32	23	28	21	26	20	25	18	22	14	16
50			45	56	36	43	32	39	27	34	25	31	24	30	21	26	16	19
60					42	49	37	45	32	39	29	36	28	34	25	30	19	22
70							42	51	36	44	33	41	31	39	28	34	21	25
80									40	49	37	46	35	43	31	38	24	28
90											40	50	38	48	34	42	26	31
100													42	52	37	46	28	34
110															40	50	31	36
120															43	53	33	39
130																	35	42
140																	37	44
150																	39	47
160																	41	49
170																	45	53

Front, I		le free							Tei	mperatu	ıre rise	[Kelvin]						
Dissipa-			APO 31		APO 4		APO 7	_		APO 51		APO 81		1	APO 1	_	APO 12 600×600×175	
tion		50×130		85×175		00×175		370×300×175		00×175	555×300×175		600×300×175		600×370×175			
Watt	Half	Тор	Half	Тор	Half	Тор	Half	Тор	Half	Тор	Half	Тор	Half	Тор	Half	Тор	Half	Тор
5	13	15	8	9	6	7	5	6	5	6	4	5	4	5	4	4	3	3
10	22	27	13	16	11	13	9	11	8	10	7	9	7	9	6	8	5	5
15	30	37	18	23	15	18	13	15	11	14	10	13	10	12	9	11	6	8
20	38	46	23	28	19	22	16	19	14	17	13	16	12	15	11	13	8	10
25	46	56	28	34	22	27	19	23	17	21	15	19	15	18	13	16	10	11
30			32	39	26	31	22	27	19	24	18	22	17	21	15	19	11	13
40			40	50	33	39	28	34	24	30	22	28	19	24	19	23	14	17
50					39	46	33	41	29	36	27	33	25	32	23	28	17	20
60					45	54	39	47	34	42	31	39	29	37	26	32	19	23
70							44	53	38	47	35	44	33	42	30	37	22	26
80									42	52	39	49	37	46	33	41	25	29
90											43	53	41	51	36	45	27	32
100															39	49	29	35
110															43	53	32	38
120																	34	40
130																	36	43
140																	39	46
150																	41	48
160																	43	51
170																		

APO - Power dissipation values

Frontsi and up		le free						Tempe	rature r	ise [Kel	vinl							
Dissipa- tion	APO 1		APO 3 300×1	1 85×175	APO 4 300×3	1 00×175	APO 7 370×3		APO 5		APO 8	31 00×175	APO 6	00×175	APO 1 600×3	1 70×175	APO 1 600×6	.2 600×175
Watt	Half	Top	Half	Тор	Half	Top	Half	Top	Half	Top	Half	Top	Half	Top	Half	Top	Half	Тор
5	13	16	8	10	7	8	6	7	5	6	5	6	4	5	4	5	3	3
10	24	29	14	18	11	14	10	12	8	10	8	10	7	9	7	8	5	6
15	33	40	20	24	16	19	14	17	12	15	11	14	10	13	9	11	7	8
20	41	50	25	31	20	24	17	21	15	18	14	17	13	16	12	14	8	10
25			30	37	24	28	21	25	18	22	16	20	16	20	14	17	10	12
30			34	42	28	33	24	29	20	25	19	24	18	23	16	20	12	14
40			43	54	35	41	30	37	26	32	24	30	23	29	20	25	15	17
50					42	49	36	44	31	38	29	36	27	34	24	30	17	21
60					48	57	42	51	36	44	33	41	32	39	28	35	20	24
70									40	50	38	47	36	45	32	39	23	27
80											42	52	40	50	35	44	26	30
90															39	48	28	33
100															42	52	31	36
110																	33	39
120																	35	42
130																	38	45
140																	40	48
150																	42	50
160																		
170																		

Frontsi upper s								Tempe	rature r	ise [Kel	vin]							X
Dissipa-	APO 1		APO 3	1	APO 4	1	APO 7	1	APO 5	1	APO 8	1	APO 6	1	APO 1	1	APO 1	.2
tion	185×1	50×130	300×1	85×175	300×3	00×175	370×3	00×175	485×3	00×175	555×3	00×175	600×3	00×175	600×3	70×175	600×6	00×175
Watt	Half	Top	Half	Top	Half	Top	Half	Top	Half	Top	Half	Top	Half	Top	Half	Тор	Half	Тор
5	15	18	9	11	7	8	6	8	5	6	5	6	5	6	4	5	3	4
10	25	31	16	19	12	15	11	14	9	11	8	10	8	10	7	9	5	6
15	35	43	22	27	17	21	16	19	13	16	12	14	11	14	10	12	7	9
20	44	54	27	34	22	26	20	24	16	20	15	18	14	17	12	15	9	11
25			33	41	26	31	23	29	19	23	18	22	17	21	15	18	11	13
30			38	47	30	36	27	33	22	27	20	25	19	24	17	21	13	15
40			48	59	38	45	34	42	28	34	26	32	24	30	22	27	16	19
50					46	54	41	50	33	41	31	38	29	36	26	32	19	22
60									38	47	35	44	34	42	30	37	22	26
70									43	54	40	50	38	48	34	42	25	29
80													43	53	38	47	28	33
90															42	51	30	36
100																	33	39
110																	36	42
120																	38	45
130																	41	48
140																	43	51
150																		
160																		
170																		

03

VMS

VMS Index

VMS

Modular system	40
Features and benefits	42
Technical data	44
Modular system components	45
Accessories	46
Supporting frame for wall mounting	49
Supporting frame for floor standing	50
Modular insulated enclosures	51
Busbar system	53
Busbar system 125 A-1 250 A	54
Parallel busbar arrangement	57
Bases	58
Busbar supports	61
Power dissipation values	62

VMS - Modular system



Applications

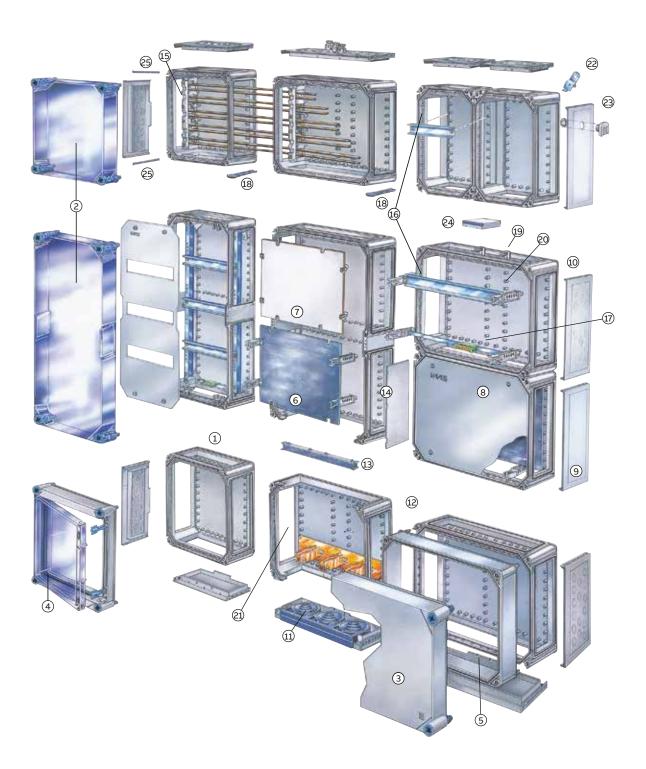
- Manufacturing
- Public works
- · Controls for motors
- Electronic instrumentation
- Low-voltage distribution boards

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 quick, 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.

VMS - Modular system



- Back box Transparent cover Opaque cover Pivoting cover

- 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 support16. DIN-profile17. Mounting rail 12×2 mm18. 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



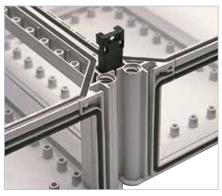
Modular dimensions in increments of 100mm in height and width, available in five sizes:

320×220 mm 320×320 mm 440×320 mm 640×320 mm

640×440 mm



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



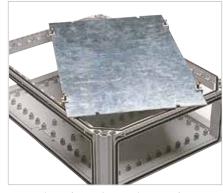
Quick coupling thanks to the vertical dowels inserted into the four corner slots of the boxes.



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.



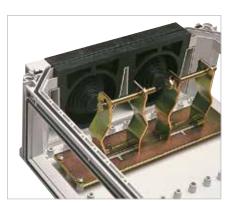
Mounting plates (2 mm in metal or 5mm in insulating material (pertinax), with mounting accessories.



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).

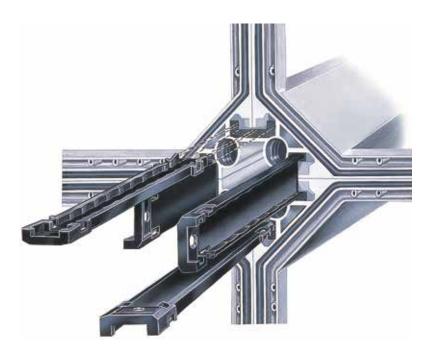


Universal cable entries and stress-relieving cable clamps to Ø 75 mm are attached to all base on side 320 mm (for 2 cables) and side 440 mm (for 3 cables).

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

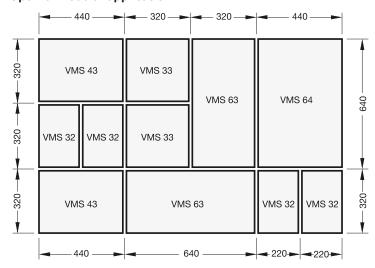
After insertion from outside, the closure plate is locked in position by two dowel pins and pressed against the enclosure body join.



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	IK06
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, IEC 61439-2

Optimal modular application



VMS - Range overview

IP65 VMS (modular)				
320×220×179 mm	320×320×179 mm	440×320×179 mm	640×320×179 mm	640×440×179 mm

General purpose enclosuresVMS - Modular system components

		Туре	VMS 32	VMS 33	VMS 43	VMS 63	VMS 64
400000000000000000000000000000000000000	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	4TBV853001C0100 2	4TBV853002C0100 2	4TBV853003C0100	4TBV853004C0100 1
	Cover	H×W×D	320×220×50	320×320×50	440×320×50	640×320×50	640×440×50
7	transparent	Type	V32CTNJ6	V33CTNJ6	V43CTNJ6	V63CTNJ6	V64CTNJ6
		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
			4TBV853010C0100				
	With slotted screws	Emb.	4	2	2	1	1
			,				
	Cover	H×W×D	-	320×320×50	440×320×50	-	-
	Hinged	Type	-	V33CPNJ6	V43CPNJ6	-	-
	With double	Order code			4TBV853016C0100		_
	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
l' I	frame	Туре	V32WDNJ6	V33WDNJ6	V43WDNJ6	V63WDNJ6	V64WDNJ6
		Order code	4TBV853030C0100	4TBV853031C0100	4TBV853032C0100	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 With mounting	Order code				4TBV853071C0100	4TBV853072C0100
2222	set	H×W×D	260×160	260×260	380×260	580×260	580×380
	Pertinax, 5mm	Туре	V32IWNJ6	V33IWNJ6	V43IWNJ6	V63IWNJ6	V64IWNJ6
	With mounting		4TRV853113C0100			4TBV853116C0100	
	set	Order code	410003311300100	418703311460100	418483311360100	418783311060100	418763311760100
		Emb.	1-10	1-10	1-10	1-10	1-10
	Solid cover plate	H×W×D	301×201	301×301	421×301	621×301	621×421
	Grey (RAL7035)	Туре	V32PWNJ7	V33PWNJ7	V43PWNJ7	V63PWNJ7	V64PWNJ7
17000	Insulated	Order code	4TBV853103C0100	4TBV853104C0100	4TBV853105C0100	4TBV853106C0100	4TBV853107C0100
	material, 2mm With mounting	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
	1xM50 / M40 + 4xM25 / M20	VX2EWNJ8	4TBV855030C0100	1/10	220
	3xM50 / M40 + 4xM16	VX3EWNJ9	4TBV855032C0100	1/10	320
	17×M20	VX3EWNJ0	4TBV855033C0100	1/10	320
	1xM50 / M40 + 2xM32 / M25 + 4xM25 / M20	VX3EWNJA	4TBV855034C0100	1/10	320
	12xM25 / M20	VX3EWNJB	4TBV855035C0100	1/10	320
	4xM40 / M32 + 3xM20	VX3EWNJC	4TBV855036C0100	1/10	320
	1xM40/M32 + 16xM25/M20	VX4EWNJ8	4TBV855037C0100	1/10	440
•	1xM50 / M40 + 2xM40 / M32 + 8xM25 / M20	VX4EWNJ9	4TBV855038C0100	1/10	440

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

Plates with cable entries						
- Tutes with capit charles	Ø cable max.: 2 x 75 mm					
	Side (mm) 32	0				
	VX3EWNJ6	4TBV853082C0100	1/5			
	Ø cable max.:	3 x 75 mm				
	Side (mm) 44	0				
	VX4EWNJ6	4TBV853083C0100	1/5			

Cable grip support							
With a cable clamp Ø max.: 75	mm						
##	Side (mm) 320						
	VX3LWNJ6	4TBV853036C0100	1/5				
	Side (mm) 440)					
	VX4LWNJ6	4TBV853037C0100	1/5				

For fixing on the ca	ble clamp support		
/	Ø cable max	.: 75mm	
	VXXLWNJ6	4TBV853035C0100	1
Bridges			
Bridges Facilitate the conne	ection of large-section ca	ables	
	ection of large-section ca Side (mm) 3:		
			1
	Side (mm) 3	20 4TBV853073C0100	1

For base coupling

VXXAWNJ8 4TBV853059C0100 20

Coupling dowels

Product	Туре	Order code	Pack
Fixation pin			
<u> </u>	For end-plate (as a spare pa		
	VXXEWNJ6	4TBV853055C0100	10
Coupling set 2 x 220			
		o sides of se side of 440mm ng accessories	
	VXXAWNJA	4TBV853063C0100	1
Coupling clamp			
ll_u	For coupling cases	in special	
	VXXAWNJ9	4TBV853062C0100	10
Universal support			
	To fit: - mounting p - copper rails - copper rails Barre plate 1:	9 x 6.5	
	VX3UWNJ6	4TBV853060C0100	10
Marking strip			
	Self-adhesive	2	

2CPX038241R9999 1m

VMS - Accessories

Product	Type	Order code	Pack
Symmetrical DIN-profiles	5		
Always supplied with two	universal support	S	
	Side (mm) 22	20	
distri	VX2AWNJ6	4TBV853094C0100	1
A STORY	Side (mm) 32	20	
S. Comments	VX3AWNJ6	4TBV853095C0100	1
	Side (mm) 44	40	
	VX4AWNJ6	4TBV853096C0100	1
49	Side (mm) 64	40	
	VX6AWNJ6	4TBV853269C0100	1

Mounting rails 12 x 2mm

To fit connection terminal blocks. Always delivered with 2 universal supports.



Side (m	nm) 320		
VX3AW	/NJ7	4TBV853098C0100	1
Side (m	nm) 440		
VX4AW	/NJ7	4TBV853099C0100	1

Partition plates

For complete compartmentalization of coupled bases.



Side (mm) 220		
VX2TWNJ6	4TBV853065C0100	1
Side (mm) 320		
VX3TWNJ6	4TBV853066C0100	1
Side (mm) 440		
VX4TWNJ6	4TBV853067C0100	1

Fixing lugs

Set of 4 brackets with screws.

- In stainless steel.
- For external fixing points.
- Direct fitting through the four corner shafts of the base.
- To be installed prior to the extension frame or hinge installation.
- Three optional mounting positions (0°, 45°, 90°).



VXXAWNJB 4TBV853064C0100 1

Air vent - IP45

Installation of two air vents per box to obtain ventilation preventing the formation of condensation. Set of 2 pieces.





ACC818078 4TBJ818078R0100 1

Blanking plate

For 12 modules



ZA1P5	2CPX062384R9999	5
ZA1P50	2CPX062378R9999	50

Product	Туре	Order code	Pack
Cover screws			
•	Set of 4 pieces	i.	
7	VXXCWNJ6 4TBV853057C010		1

Hinge screws

The base must bed before fixed prior to hinge installation. Set of 2 pieces.



Hinges made of molded material

To mount the hinges, the cover and the base must be pierced. Drilling templates are provided. The kit includes: two hinges, screws, reinforcement plates, drilling gage and instructions. Set of 2 pieces.

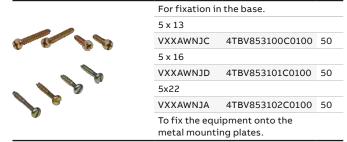


Clip-in button

For cover screws or hinge screws. Set of 4 pieces.



Clip-in button



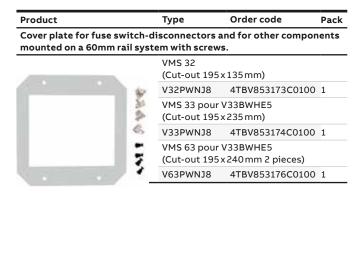
Screws for depth exte	nsion frame	
AFFF	Replacement parts	
W	VXXDWNJ6 4TBV853056C0100 4	

Fixation set for cover plate			
Anna	Replacement	parts	
AN .	VXXPWNJ7	4TBV853053C0100	1

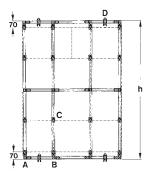
Fixation set for mount	ting plate		
今日日日	For metal or I Replacement		
11>	VXXIWNJ6	4TBV853054C0100	1

VMS - Accessories

Product		Type	Order code	Pack
Cover plate for D	IN rail functi	ons		
h		VMS33 2 rows For V33BWDJ6		
	*	V33PWNJ9	4TBV853327C0100	1
	*	VMS43 2 horizo For V43BWDJ7	ontal rows	
	%	V43PWNJ9	4TBV853330C0100	1
	1 3	VMS63 2 horizo For V63BWDJ6		
		V63PWNJ0	4TBV853333C0100	1
		VMS63 4 rows For V63BWDJ6		
		V63PWNJ9	4TBV853332C0100	1
		VMS64 4 rows For V64BWDJ6		
		V64PWNJ8	4TBV853334C0100	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	Type	Order code	Pack
C-Profile in aluminum			
- 17 -	30x17x3mm Length = 3 m		
16 30	APACC851254	4TBO851254C0100	1

Product	Type	Order code	Pack
Fixation plate			
D T		with bolt and slidi enclosures onto th rofiles.	_
11	APACC851	L415 4TBO85141	5C0100 1

C B

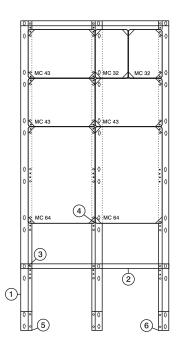
Clamping bracket

With bolts and two sliding nuts M8. To mount the upper and lower C-profiles to the vertical support-profiles

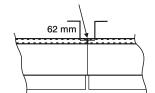
APACC851253 4TBO851253C0100 1

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

VMS - Supporting frame for floor standing



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





Z-Profile



C-Profile



M5×16



Accessories

	Туре	Order code	Pack
① Vertical Z-profile - RAL 9001			
Aluzinc - L = 2 360 mm, for 6 × 320	VXXFWNJ7	4TBV855515C0100	
Aluzinc - L = 2 040 mm, for 5 × 320	VXXFWNJ8	4TBV855516C0100	
Aluzinc - L = 1 080 mm, for 3 × 320	VXXFWNJ9	4TBV855517C0100	
Aluzinc - L = 760 mm, for 2 × 320	VXXFWNJ0	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	
® Right	VXXFWNJD	4TBV855522C0100	1

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
	Туре	V32BWDJ6	V33BWDJ6	V43BWDJ7	V63BWDJ6	V64BWDJ6
		4TBV853125C0100	4TBV853127C0100	4TBV853266C0100	4TBV853267C0100	4TBV853268C0100
				(vertical)	(vertical)	
				42 modules	56 modules	
	Туре			V43BWDJ6	V63BWDJ6	
	Order code			4TBV853129C0100	4TBV853131C0100	

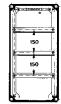


Enclosures for DIN equipment Includes:

- base with four closed sides
- with combi end-plates:
 at the top: 17 x M20
 at the bottom: 1 x M50 / 40
- + 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)







	320 x 220 x 179 mm	440 x 320 x 179 mm	640 x 320 x 179 mm
	14 modules	28 modules	42 modules
Туре	V32BTDJ7	V43BTDJ6	V63BTDJ7
Order code	4TBV853159C0100	4TBV853160C0100	4TBV853161C0100

Modular insulated enclosures with busbars Without cover plates and entry			
plates*. With 250A / 400A Rail system with 5 poles. Without terminals.*		5P, 250 A	5P, 250 A
		MFR352	MFR652
	Туре	V33BWBE5	V63BWBE5
	Order code	4TBV853252C0100	4TBV853253C0100

^{* =} for covers and plates see selection table at pages 45 and 46

VMS - Modular insulated enclosures

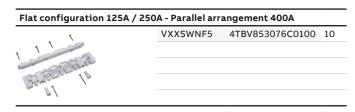
Туре	VMS 32	VMS 33	VMS 43	VMS 63	VMS 64
Metering enclosures Without cover and end-plates With installed meter board incl. meter fixation screws For covers and plates see selection table on pages 45 and 46					
			440 x 320 x 179 mm	640 x 320 x 179 mm	
	Туре		V43BWKJ6	V63BWKJ6	
	Order code		4TBV853250C0100	4TBV853251C0100	

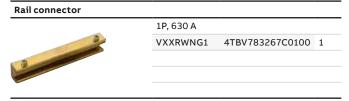
VMS - Busbar system

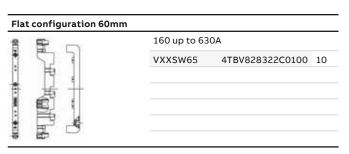
Accessories

Type	Order code	Pack
/ 250A - Parallel arr	angement 250A	
VXXSWNE5	4TBV853075C0100	10
	/ 250A - Parallel arr	/ 250A - Parallel arrangement 250A

Product	Type	Order code	Pack
Parallel arrangement 630A	/ 1100A		
	5 pole 100%		
1 1	VXBB855177N	4TBV855177C0100	10
The state of the s			
/			



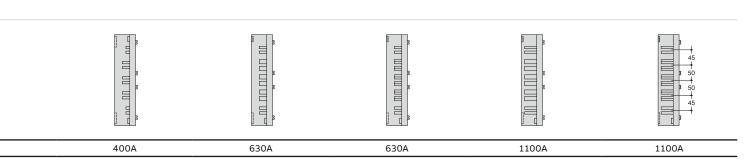




VMS - Busbar system 125 A-1 250 A

	Flat configuration			Parallel arrangement
	50 40 40 40 50 40 40 40 40 40 40 40 40 40 4			
Rated nominal current in	125/160 A	250A	250A	250A
Busbar supports				
Туре		V	(XSWNE5	
Order code		4TBV8	353075C0100	
Pack	1	1	1	1
Center distance of phase bars (mm)	40	40	40	50
Distance between N or \ddot and the closest phase (mm)	50	50	50	45
Busbars		'		
Number and dimensions of phase bars	1x(12x5)	1x(12x10)	2x(12x5)	2x(12x5)
(L1 - L2 - L3)				
Number and dimensions of bars N-+	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



VXXSWNF5		VX	XSWNI5	
4TBV853076C0100		4TBV85	53077C0100	
1	1	1	1	1
50	50	50	50	50
45	45	45	45	45
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

VMS - Busbar system 125 A-1 250 A

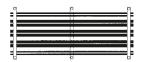
Flat configuration

Product			· · · · · · · · · · · · · · · · · · ·	Type	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

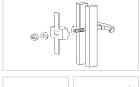


	Туре	Order code	Pack
Busbars with horizontal fixat	ion		
Connecting blocks			
-30 - 90 - 30 - 30 - 5 - 30 - 30 - 30 - 30 - 30	For flat coppe widths of 25,		
30 30 5 30	APACC858003	4TBO858003C0100	10
10 1 30	For flat coppe widths of 20 c		
1-20-1	APACC858004	4TBO858004C0100	10
5 1	For flat coppe widths of 15 c		
+20+	APACC858005	4TBO858005C0100	10



Anchor bolts

For 5mm thick bars



M10x60 APACC858008 4TBO858008C0100 10 M10x80 APACC858010 4TBO858010C0100 10



M10x60

APACC858013 4TBO858013C0100 10 M10x80

4TBO858011C0100 10

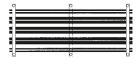
80

APACC858011

30



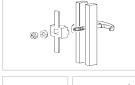
63



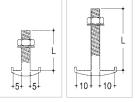
	Туре	Order code	Pack
Cable-bar connection socket	s - 16-35-70-12	Omm²	
Wing contact block			
96 10			
	APACC858006	4TBO858006C0100	10
5			
5	APACC858007	4TBO858007C0100	10
	+		



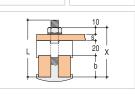
For 5mm thick rails



M10x60 APACC858008 4TBO858008C0100 10 M10x80 APACC858010 4TBO858010C0100 10







b	s	х	L
12	-	42	60
12	5	47	60
12	10	52	60
20	-	50	60
20	5	55	60
20	10	60	60
30	-	60	60
30	5	65	80
30	10	70	80

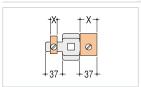
For 10mm thick rails



Koppelkit IP65 / IP54

Cable clamps for fixing to the contact block wings

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

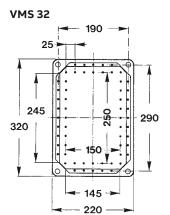


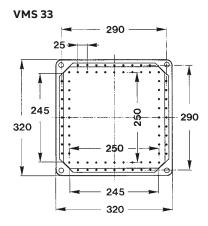
Legend:

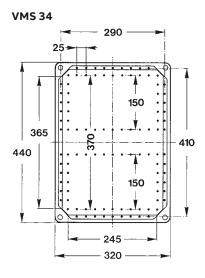
- b: height of rectangular bars
- s: thickness of the rectangular bar or cable-shoe or flat copper
- x: minimum bolt length required
- L: length of fitting hook bolt or bolt with rectangular head

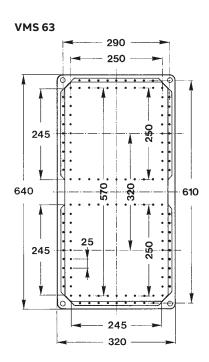
VMS – Dimensions

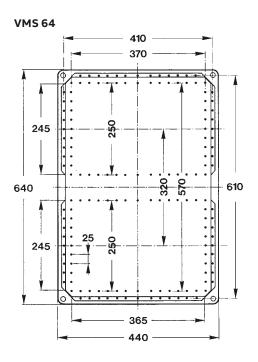
Bases









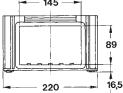


VMS – Dimensions

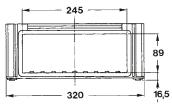
Bases

Openings in the base side walls Side 220

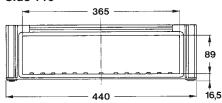




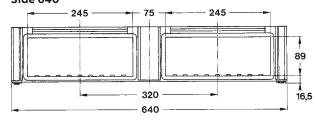
Side 320



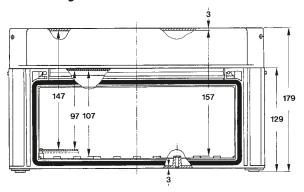
Side 440



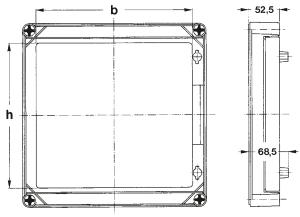
Side 640



Built-in heights



Pivoting covers

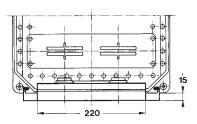


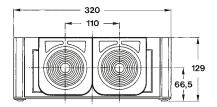
Туре	Dimensions	b	h	
VMS 33	320×320 mm	260	241	
VMS 43	440×320mm	260	361	

VMS – Dimensions

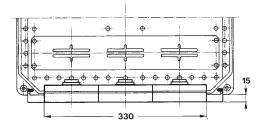
Bases

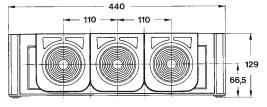
Cable end plates and universal cable stress releases Side 320



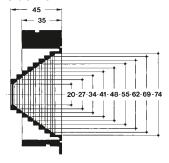


Side 440

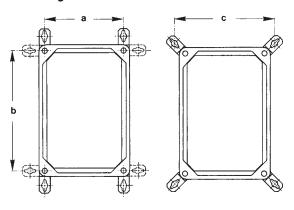




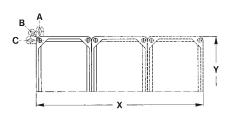
Side view



Mounting brackets



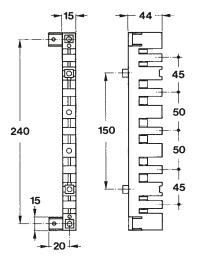
Туре	Dimensions	a	b	с
VMS 32	320×220 mm	193	293	254
VMS 33	320×320 mm	293	293	354
VMS 43	440×320 mm	293	413	354
VMS 63	640×320mm	293	613	354
VMS 64	640×440 mm	413	613	474

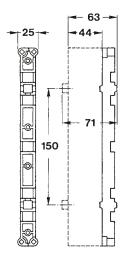


	Centre d	imensions
A	X - 27	Y + 40
В	X + 34	Y + 34
С	X + 40	Y - 27

VMS – Dimensions Busbar supports

630 A-1 250 A - parallel





VMS - Power dissipation values

Rear ag	gainst	wall (wall m	nounti	ng)					Т	emper	ature ri	ise [Ke	lvin]							
Dissipa- tion	VMS 3 320×2	2 20×180	VMS 3 320×2	2 20×255	VMS 3 320×3	3 20×180	VMS 3: 320×3	3 20×255	VMS 4 440×3	3 20×180	VMS 4 440×3	3 20×255	VMS 6 640×3	3 20×180	VMS 6 640×3	3 20×255	VMS 6 640×4	4 40×180	VMS 6 640×4	i4 i40×255	
Watt	Half	Тор	Half	Тор	Half	Тор	Half	Тор	Half	Тор	Half	Тор	Half	Тор	Half	Тор	Half	Тор	Half	Тор	
10	11	14	9	11	9	11	8	9	8	9	7	8	6	7	5	6	5	6	4	5	
20	20	24	16	20	16	19	14	16	13	16	11	14	10	13	9	11	9	11	8	10	
30	27	33	22	27	22	26	19	23	18	23	16	19	14	18	12	15	12	15	11	13	
40	34	42	28	34	28	33	24	28	23	28	20	24	18	23	16	19	15	19	14	17	
50	41	50	33	41	33	39	29	34	28	34	24	29	22	27	19	23	18	22	16	20	
60	47		38	47	38	45	33	39	32	39	28	34	25	31	22	27	21	26	19	23	
70	54		43	53	43	51	38	45	36	45	31	38	28	36	24	30	24	29	21	26	
80			48		48		42	50	41	50	35	43	32	40	27	34	27	33	24	29	
90			53		53		46	55	45	55	38	47	35	43	30	37	29	36	26	32	
100							50		49		42	51	38	47	33	41	32	39	28	35	
120									56		48		44	55	38	47	37	45	33	40	
140											55		50		43	53	42	51	37	46	
160													55		47		47		41	51	
180															52		51		45	56	
200															57		56		49		
220																			53		

Front, i	right a	and up	persi	de fre	e					т	emper	ature ri	ise [Ke	lvin]						
Dissipa-	VMS 3	32	VMS 3	2	VMS 3	3	VMS 3	3	VMS 4	3	VMS 4	3	VMS 6	3	VMS 63		VMS 6	4	VMS 64	
tion	320×2	20×180	320×2	20×255	320×3	20×180	320×3	20×255	440×3	20×180	440×3	20×255	640×320×180 640×320×255			640×440×180		640×4	640×440×255	
Watt	Half	Тор	Half	Тор	Half	Тор	Half	Тор	Half	Тор	Half	Тор	Half	Тор	Half	Тор	Half	Тор	Half	Тор
10	12	15	10	12	9	11	8	10	8	10	7	9	6	8	6	7	5	6	5	6
20	21	26	17	21	16	20	15	17	14	17	12	15	11	14	10	12	9	11	8	10
30	29	35	24	30	23	27	20	24	20	24	17	21	15	19	13	17	13	16	11	14
40	36	45	30	37	29	34	25	30	25	30	21	26	19	24	17	21	16	20	14	18
50	43	53	36	45	34	41	30	36	29	36	26	31	23	29	20	25	19	24	17	21
60	50		42	52	40	47	35	42	34	42	30	36	27	34	23	29	22	27	20	24
70	57		48		45	54	40	47	39	47	34	41	31	38	26	33	25	31	22	28
80			53		50		44	53	43	53	37	46	34	42	29	37	28	35	25	31
90					55		49		47		41	50	37	47	32	40	31	38	27	34
100							53		51		45	55	41	51	35	44	34	41	30	37
120											52		47		41	51	39	48	35	43
140													53		46		44	54	39	48
160															51		49		44	54
180															57		54		48	
200																			52	
220																			56	

VMS - Power dissipation values

Frontsi	ide an	d upp	erside	e free			Temperature rise [Kelvin]													
Dissipa-	VMS 3		VMS 3		VMS 3		VMS 3		VMS 4		VMS 4		VMS 6	-	VMS 6		VMS 6	-	VMS 6	
tion		20×180		20×255		20×180		20×255		20×180		20×255		20×180		20×255		40×180		40×255
Watt	Half	Тор	Half	Тор	Half	Тор	Half	Тор	Half	Тор	Half	Тор	Half	Тор	Half	Тор	Half	Тор	Half	Тор
10	13	16	11	14	10	12	9	10	9	10	8	9	7	9	6	8	6	7	5	6
20	22	27	20	24	18	22	15	18	15	18	13	16	12	15	11	13	10	12	9	11
30	31	37	27	33	25	30	21	25	21	25	18	22	17	21	15	18	14	17	12	15
40	38	47	34	42	32	38	27	32	26	32	23	28	21	26	18	23	17	21	15	19
50	46	57	41	50	38	45	32	38	31	38	28	34	25	31	22	28	20	25	18	22
60	53		47		44	52	37	44	36	44	32	39	29	36	26	32	24	29	21	26
70			53		50		42	50	41	50	36	44	33	41	29	36	27	33	24	29
80					55		47	56	46	56	40	49	37	46	32	40	30	37	27	33
90							52		50		44	54	40	50	35	44	33	40	29	36
100							56		54		48		44	55	39	48	36	44	32	39
120											56		51		45	56	41	51	37	45
140															51		47		42	51
160															56		52		46	
180																			51	

Frontsi	rontside free, upperside not free									Temperature rise [Kelvin]										
Dissipa-	VMS 3	32	VMS 3	2	VMS 3	3	VMS 3	3	VMS 4	.3	VMS 4	.3	VMS 6	3	VMS 6	3	VMS 6	4	VMS 6	64
tion	320×2	220×180	320×2	20×255	320×3	20×180	320×3	20×255	440×3	20×180	440×3	20×255	640×3	20×180	640×3	320×255	640×4	40×180	640×4	140×255
Watt	Half	Тор	Half	Тор	Half	Тор	Half	Тор	Half	Тор	Half	Тор	Half	Тор	Half	Тор	Half	Тор	Half	Тор
10	14	17	12	15	12	14	10	12	9	11	8	10	7	9	7	8	6	7	5	7
20	24	30	22	27	20	24	18	22	16	20	15	18	13	16	12	14	11	13	10	12
30	33	41	30	37	28	34	25	30	22	27	20	25	18	22	16	20	15	18	13	16
40	42	52	38	46	36	42	32	38	28	34	26	31	22	28	20	25	18	23	17	21
50	50		45	55	43	51	38	45	34	41	31	38	27	33	24	30	22	27	20	25
60			52		49		44	52	39	48	35	43	31	39	28	35	26	31	23	28
70					56		50		44	54	40	49	35	44	32	39	29	36	26	32
80							55		49		45	55	39	49	35	44	32	40	29	36
90									54		49		43	54	39	48	35	43	32	39
100											54		47		42	52	39	47	35	43
120													54		49		45	55	40	50
140															55		50		46	56
160																	56		51	
180																			56	

04

ARIA

ARIA Index

ARIA

Universal polyester enclosures	66
Universal polyester cabinets - Accessories	70
Dimensional	72
Power dissipation values	74

ARIA - Universal polyester enclosures



Applications

- Manufacturing
- Breweries
- Steelworks
- Public works
- · Petro-chemical industry
- · Road signage
- Temporary connections
- Telecoms
- · Solar energy applications

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

Standards/Certification



• 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)

Specifications

- Seven different types, from 315 x 215 to 1035 x 835 mm.
- Enclosures made from light gray polyester (RAL 7035), hot press molded, glass fiber-reinforced, 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 (IP54 for enclosures with inspection windows).
- 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 $U_i = 1000 \text{ V}$ ac and 1500 V dc



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 enclosures

			e	P
	Type		ARIA 32	ARIA 43
	Type Individual front plates HxWxD		315×215×170	415×315×170
	marviadar front places frx w x b		31372137110	413,313,170
	Enclosure 🗆 IP65 - IK08.	Туре	-	AR043P13 ⁽¹⁾
	With one or two double-bit, 3 mm locks	Order code		4TBA831035C0100
	two-point closure			
1	Enclosure with inspection window 🛭 IP54 - IK07		-	AR043T33
	With one or two double-bit, 3 mm locks	Order code		4TBA831128C0100
				single-point closure
	5 1	Туре	AR032P13 ⁽¹⁾	AR043P33
	Enclosure		4TBA831025C0100	4TBA831036C0100
	three-point closure mechanism	Order code	41BA031023C0100	41BA031030C0100
	tinee point closure meenamsm	Туре	-	AR043T23
	Enclosure with inspection window 🔲 IP54 - IK07	31		
	with 1 double-bit, 3mm center lock	Order code		4TBA831815C0100
				AR043H33
1	Enclosure IP66 - IK08	Туре	AR032T13	
	With 1 security lock handle	Order code	4TBA831307C0100	4TBA831034C0100
1				
	Mounting plates		1	
	Dimensions HxW		250 x 150	350 x 250
	Pertinax 5 mm	Туре	AR032I03	AR043I03
		Order code	4TBA831027C0100	4TBA831038C0100
	2 mm Sendzimir galvanized steel panel	Туре	AR032M03	AR043M03
		Order code	4TBA831026C0100	4TBA831037C0100
	1.5 mm perforated metal panel	Type	AR032Q03	AR043Q03
		Order code	4TBA831332C0100	4TBA831333C0100
-		_		AR043D03
	Mounting frame	Type	AR032D03	ATRA 021 0 41 C01 00
	Rows	Order code	4TBA831030C0100	4TBA831041C0100 2
A 3 - 1-1-1	Modules		2	2
	Modules		12	24
	Full cover plates			
	Solid	Туре	AR032C03	AR043C03
		Order code	4TBA831028C0100	4TBA831039C0100
	With openings for DIN rail equipment	Type	AR032S03	AR043S03
		Order code	4TBA831029C0100	4TBA831040C0100
gran-	With openings for individual modular front	Туре	-	AR043E03
**	plates	Order code		4TBA831790C0100
	Number of individual modular front plates			3
	possible Note: the ARIA 43 and 86 cabinets and ARIA 64		-	2
	and 108 cabinets contain the same modular clo-			
	sure plates (Closed and with openings)			
	Individual front plates HxW		-	150 x 239
	IP20 individual modular protective plates (PVC)			
	Solid	Type	-	AR043N03
12	With an anima for DIN well a suit and the	Order code		4TBA831797C0100
· •	With openings for DIN rail equipment	Type	-	AR043R03
	Modules	Order code	_	4TBA831796C0100
	Modules		-	12

(1) single-point closure Pack = 1

General purpose enclosuresARIA - Universal polyester enclosures

			E	e l	
■	□	B			
ADIA 54	ADIA 64	ARIA 75	ADIA 96	ADIA 109	
ARIA 54 515×415×230	ARIA 64 615×415×230	735×535×270	ARIA 86 835×635×300	ARIA 108 1035 x 835 x 300	
AR054P23	AR064P23	AR075P23	AR086P23	AR108P23	
ARU34F23	AR004F23	ARUISEZS	ARUGUFZS	ARIOGEZS	
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	A DOG 4T22	AD075T22	AD006T22	AD100T22	
AR054133	AR064T33	AR075T33	AR086T33	AR108T33	
4TBA831129C0100	4TBA831130C0100	4TBA831131C0100	4TBA831132C0100	4TBA831133C0100	
AR054H33	AR064H33	AR075H33		AR108H33	
			AR086H33		
4TBA831051C0100	4TBA831064C0100	4TBA831080C0100	4TBA831097C0100	4TBA831111C0100	
	,				
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 AR054Q03	4TBA831066C0100 AR064Q03	4TBA831082C0100 AR075Q03	4TBA831099C0100 AR086Q03	4TBA831113C0100 AR108Q03	
4TBA831334C0100	4TBA831335C0100	4TBA831336C0100	4TBA831337C0100	4TBA831338C0100	
418A631334C0100	AR064D03	AR075D03	AR086D03	AR108D03	
AR054D03	AROU-BUS	AN013203	AROOODOS	ANIOODOS	
4TBA831057C0100	4TBA831070C0100	4TBA831086C0100	4TBA831103C0100	4TBA831117C0100	
3	3	4	4	5	
54	54	88	96	180	
AR054C03	AR064C03	AR075C03	AR086C03	AR108C03	
4TBA831055C0100	4TBA831068C0100	4TBA831084C0100	4TBA831101C0100	4TBA831115C0100	
AR054S03	AR064S03	AR075S03	AR086S03	AR108S03	
4TBA831056C0100 AR054E03	4TBA831069C0100 AR064E03	4TBA831085C0100 AR075E03	4TBA831102C0100 AR086E03	4TBA831116C0100 AR108E03	
4TBA831791C0100	4TBA831792C0100	4TBA831793C0100	4TBA831794C0100	4TBA831795C0100	
41 DV021121C0100	41 DV0211 25C0100	410403113360100	41DA031/34C0100	41BA031133C0100	
3	3	4	8	10	
150 x 343	150 x 343	150 x 239	150 x 239	150 x 343	
200,000	200,000	200 / 200	200 / 200	200 / 010	
AR054N03	AR064N03	AR075N03	AR043N03	AR064N03	
4TBA831799C0100	4TBA831801C0100	4TBA831803C0100	4TBA831797C0100	4TBA831801C0100	
AR054R03	AR064R03	AR075R03	AR043R03	AR064R03	
4TBA831798C0100	4TBA831800C0100	4TBA831802C0100	4TBA831796C0100	4TBA831800C0100	
17	18	22	12	18	

ARIA - Universal polyester enclosures - Accessories

Product		Туре	Order code	Pack
Locks				
With interchangeable cyli	inder	s (Supplied wit	h 1 key)	
		3mm		
	•	AR831008	4TBA831008C0100	1
		8mm		
*	0	AR831005	4TBA831005C0100	1
		8mm		
_	•	AR831006	4TBA831006C0100	1
		11mm		
		AR831007	4TBA831007C0100	1
		Other locks: ple	ase contact us.	

Product	Туре	Order code	Pack		
Fixing lugs(1)					
- T	In 304 grade stainless steel Set of 4 pieces				
AL ASSESSED	ARACCB03	4TBA831000C0100	1		
	Set of 4 polyamide pieces				
400					
115	ARACCB13	4TBA831001C0100	1		
	(1) not supplied	as standard			

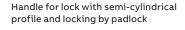
Handles



Neutral handle (without lock) AR831003 4TBA831003R0100 1 With lock and 2 keys V2432E 4TBA831004R0100 1 AR831004 With lock and 2 keys 1242E AR831180 4TBA831180R0100 1 With lock and 2 keys 405E AR831152 4TBA831152C0100 1 With lock and 2 keys 455E AR831153 4TBA831153C0100 1 Handle for lock, 45 mm semi-cylindrical profile AR831821 4TBA831821C0100 1



For replacing a double-bit lock or other locks for Aria 54, a mechanical adaptation of the door openings is required.



4TBA831822C0100 1



For replacing a double-bit lock or other locks for Aria 54, a mechanical adapta-

tion of the door openings is required.

Hinge supports for inner door



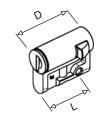
Set of 2 pieces, for front plate

gether with a closed front plate.

AR831010 4TBA831010C0100 1
A lower door may be installed to-

Profile half cylinder locks

Standard: D = 40 mm - L = 30.5 mm



With 2 keys V2432-E PS832030 4TBP832030C0100 1 Replacement keys for 832030 4TBP832741R0100 2 PS832741 With 2 keys 1242-E PS832031 4TBP832031C0100 1 With 2 keys 455-E 4TBP832465C0100 1 PS832465 With 2 keys 405-E PS832466 4TBP832466R0100 1 With a replacement key, 8 mm PS832032 4TBP832032C0100 1 With an 8 mm triangular key PS832033 4TBP832033C0100 1 With an 11 mm triangular key PS832034 4TBP832034C0100 1 With 3 mm double-bit key



PS832029 4TBP832029C0100 1

Vents

(IP44 if fitting in the double corner)



Set of 2 ventilation grilles. Bore hole Ø 34.9 mm

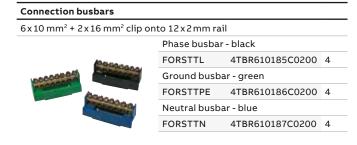
AR831009 4TBA831009C0100 1

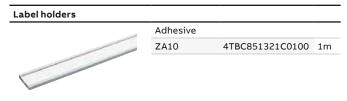
See Sect. Cabinet ventilation for additional ventilation options.

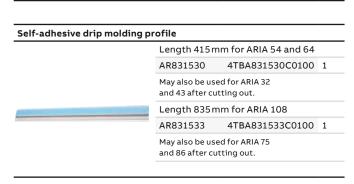
ARIA - Universal polyester enclosures - Accessories

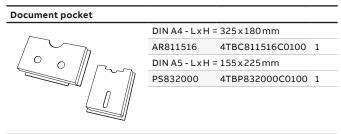
Product	Type	Order code	Pack		
Pedestal mounting assembly					
4.4	For ARIA 54/	64			
	AR891608	4TBA891608C0100	1		
	Fixing lugs in s included.	tainless steel			
W. Marie	Steel strips no	t included.			

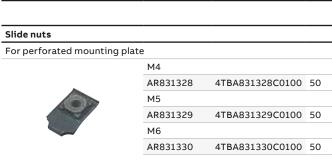
Product	Type	Order code	Pack
Module covers			
	Sectionable b	y 1/2 module	
	12 modules		
	ZA3P5	4TBR610142C0200	5
A CONTRACTOR OF THE PARTY OF TH	4 modules		
	FORSTBP500	4TBR610484C0200	500

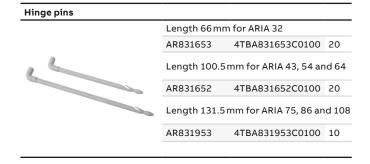




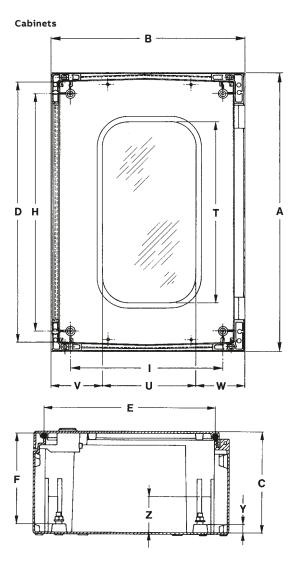








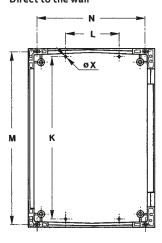
ARIA – Dimensions



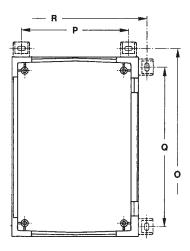
Dimensions							
ARIA	32	43	54	64	75	86	108
A	315	415	515	615	735	835	1035
В	215	315	415	415	535	635	835
С	170	170	230	230	270	300	300
D	275	375	475	575	675	775	975
E	170	270	370	370	470	570	770
F	148	148	208	208	248	278	277
Н	225	325	425	525	625	725	925
I	125	225	325	325	425	525	725
K	275	375	475	575	675	775	975
L	70	150	200	200	300	400	600
М	295	395	495	595	-	-	-
N	155	255	355	355	-	-	-
0	362	462	562	662	782	882	1082
Р	162	262	362	362	482	582	782
Q	262	362	462	562	682	782	982
R	262	362	462	462	582	682	882
Т	-	280	380	480	580	680	880
U	-	130	230	230	330	430	630
٧	-	70	70	70	80	80	80
W	-	115	115	115	125	125	125
X	6	6	6	6	8	8	8
Υ	14	14	15,5	15,5	15,5	15,5	15,5
Z	28	25	88	88	118	148	148

Wall mounting

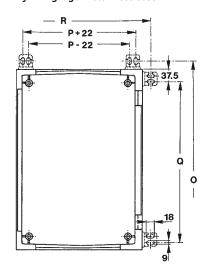
Direct to the wall



By fixing lugs in polyamide

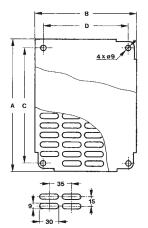


By fixing lugs in stainless steel



ARIA – Dimensions

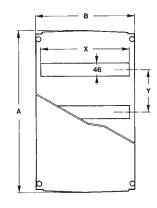
Mounting plates



Dime	Dimensions								
ARIA	Α	В	С	D					
32	250	150	225	125					
43	350	250	325	225					
54	450	350	425	325					
64	550	350	525	325					
75	650	450	625	425					
86	750	550	725	525					
108	950	750	925	725					

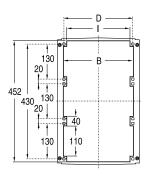
Cover plates

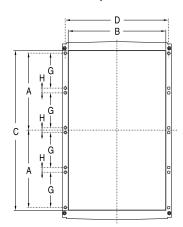
Plain and with openings for DIN-rail equipment



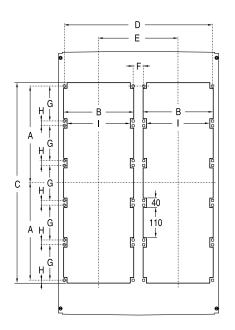
Dime	nsions				
ARIA		Α	В	X	Υ
32	2 rows	279	162	108	125
43	2 rows	379	262	216	150
54	3 rows	479	362	324	150
64	3 rows	579	362	324	150
75	4 rows	690	462	396	150
86	4 rows	790	562	2 x 21	6 150
108	5 rows	990	762	2 x 32	4150

Cover plates with cut-out for individual modular cover plates

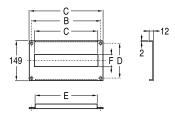




Dimensi	ons									
Type	Α	В	С	D	E	F	G	Н	1	Mod.
ARIA 43	140	216	302	236	-	-	130	20	-	24
ARIA 54	-	308	-	303	-	-	-	-	283	51
ARIA 64	-	326	-	336	-	-	-	-	316	54
ARIA 75	290	400	602	428	-	-	130	20	-	88
ARIA 86	290	216	602	524	288	52	130	20	-	96
ARIA 108	365	326	752	732	396	60	130	20	316	180



Individual modular cover plate



Dimensions						
Туре	Α	В	С	D	E	F
831796	255	236	216	130	210	46
831797	255	236	0	130	210	0
831798	322	303	306	130	280	46
831799	322	303	0	130	280	0
831800	355	336	324	130	312	46
831801	355	336	0	130	312	0
831802	455	428	396	130	396	46
831803	455	428	0	130	396	0

ARIA - Power dissipation values

Rear against wall								Tem	perature i	rise [Kelvi	n]			
Dissipa-	ARIA 3	2	ARIA 4	13	ARIA 5	4	ARIA 6	54	ARIA 7	5	ARIA 8	6	ARIA 1	08
tion	300×2	00×170	400×3	00×170	500×4	00×230	600×4	00×230	700×5	00×270	800×6	00×300	1.000×	800×300
Natt	Half	Тор	Half	Тор	Half	Тор	Half	Тор	Half	Top	Half	Тор	Half	Тор
.0	12	15	8	10	6	7	5	6	4	5	3	4	2	3
0	21	26	15	18	10	12	9	11	7	9	6	7	4	5
30	30	36	20	25	14	17	12	15	10	12	8	10	5	7
10	37	46	26	32	17	21	15	19	12	15	10	13	7	9
0	45	55	31	38	21	25	18	22	15	18	12	15	8	11
50			36	44	24	29	21	26	17	21	13	18	9	13
0			41	49	27	33	24	29	19	24	15	20	11	14
30			45	55	30	36	27	33	21	26	17	23	12	16
0					33	40	29	36	23	29	18	25	13	18
100					36	44	32	39	26	31	20	27	14	19
.10					39	47	34	42	28	34	22	29	15	21
.20					42	50	37	45	30	36	23	31	16	22
.30							39	49	32	39	25	33	17	24
.40							42	51	33	41	26	35	19	25
150									35	43	28	37	20	26
160									37	46	29	39	21	28
170									39	48	31	41	22	29
.80									41	50	32	43	23	31
190											34	45	24	32
200											35	47	25	33
210											37	49	26	35
220											38	51	27	36
230													28	37
240													29	39
250													30	40
260													31	41
270													31	42
280													32	44
90													33	45
00													34	46
10													35	47
320													36	49
30													37	50
340														

Front, left and upperside free								Temperature rise [Kelvin]						
Dissipa-	ARIA 32		ARIA 43	3	ARIA 5	4	ARIA 6	4	ARIA 75	5	ARIA 8	5	ARIA 10	08
tion	300×200	×170	400×30	0×170	500×40	00×230	600×40	00×230	700×50	0×270	800×60	0×300	1.000×8	300×300
Watt	Half	Тор	Half	Тор	Half	Тор	Half	Тор	Half	Тор	Half	Тор	Half	Тор
10	13	16	9	11	6	7	5	7	4	5	3	4	2	3
20	23	28	16	19	10	13	9	11	7	9	6	8	4	6
30	31	38	22	26	15	18	13	16	10	12	8	11	6	8
40	39	49	27	33	18	22	16	20	13	16	10	13	7	10
50	47	58	32	40	22	27	19	24	15	19	12	16	9	12
60			38	46	25	31	23	28	18	22	14	19	10	13
70			43	52	29	35	26	31	20	24	16	21	11	15
80					32	39	28	35	22	27	18	23	13	17
90					35	43	31	38	24	30	19	26	14	19
100					38	46	34	42	27	33	21	28	15	20
110					41	50	37	45	29	35	23	30	16	22
120							39	48	31	38	24	32	18	23
130							42	52	33	40	26	35	19	25
140									35	43	28	37	20	26
150									37	45	29	39	21	28
160									39	48	31	41	22	29
170									41	50	32	43	23	31
180									43	52	34	45	24	32
190											35	47	26	34
200											37	49	27	35
210											38	51	28	37
220													29	38
230													30	39
240													31	41
250													32	42
260													33	44
270													34	45
280													35	46
290													36	48
300													37	49
310													38	50
320														
330														
340														

ARIA - Power dissipation values

		d uppers							perature r					
Dissipa-	ARIA 3	2	ARIA 4	3	ARIA 5	4	ARIA 6	4	ARIA 7	5	ARIA 8	6	ARIA 1	08
tion	300×20	00×170	400×30	00×170	500×40	00×230	600×4	00×230	700×50	0×270	800×60	00×300	1.000×	800×300
Watt	Half	Тор	Half	Тор	Half	Тор	Half	Тор	Half	Тор	Half	Тор	Half	Тор
.0	14	17	9	11	6	8	6	7	4	5	4	5	3	3
20	24	30	16	20	11	14	10	12	8	9	7	8	4	6
30	33	41	23	28	16	19	14	17	11	13	9	11	6	8
-0	42	52	29	35	20	24	17	22	13	16	11	14	8	10
0			34	42	23	29	21	26	16	20	14	17	9	12
0			40	48	27	33	24	30	18	23	16	19	11	14
0			45	55	31	37	27	34	21	26	18	22	12	16
10					34	42	31	38	23	29	20	24	14	18
0					38	46	34	41	26	31	22	27	15	19
.00					41	50	36	45	28	34	24	29	16	21
10							39	49	30	37	26	31	18	23
20							42	52	32	40	27	34	19	24
30									34	42	29	36	20	26
40									37	45	31	38	21	27
.50									39	47	33	40	23	29
60									41	50	35	42	24	31
70											36	44	25	32
80											38	47	26	34
90											40	49	27	35
00											41	51	29	37
10													30	38
20													31	40
:30													32	41
40													33	42
250													34	44
260													35	45
70													36	47
80													37	48
90													39	49
800													40	51
310														
320														
30														
340														

Frontsi	ontside free, upper side not free								Tempera	ture rise [l	Kelvin]				
Dissipa-	ARIA 3	2	ARIA 4	3	ARIA 5	4	ARIA 6	4	ARIA 7	5	ARIA 8	6	ARIA 1	08	
tion	300×20	00×170	400×30	00×170	500×40	00×230	600×40	00×230	700×50	0×270	800×60	00×300	1.000×	800×300	
Watt	Half	Top	Half	Тор	Half	Top	Half	Тор	Half	Тор	Half	Top	Half	Тор	
20	27	33	19	23	12	15	11	14	8	10	7	8	5	6	
30	37	46	26	32	17	21	15	19	11	14	10	12	7	9	
40	47	57	33	40	22	26	19	24	14	18	12	15	9	11	
50			39	48	26	32	23	28	17	21	14	18	10	14	
60			45	56	30	37	27	33	20	24	17	21	12	16	
70					34	41	30	37	23	28	19	23	13	18	
80					38	46	33	41	25	31	21	26	15	20	
90					42	51	37	45	28	34	23	28	16	22	
100							40	49	30	37	25	31	18	24	
110									32	40	27	33	19	26	
120									35	43	29	36	21	27	
130									37	45	31	38	22	29	
140									39	48	33	41	23	31	
150									42	51	35	43	25	33	
160											37	45	26	35	
170											39	47	27	36	
180											41	50	29	38	
190													30	40	
200													31	41	
210													32	43	
220													34	45	
230													35	46	
240													36	48	
250													37	49	
260													39	51	
270															
280															
290															
300															
310															
320															
330															
340															

05

PolySafe

PolySafe

Index

PolySafe

Multi-function polyester enclosures	78
Universal polyester enclosures	80
Modular framework for DIN-rail equipment - IP20	84
Modular functions and accessories	85
Accessories	86
Alu frame mounting applications	91
Dimensional	92
Power dissipation values	94

PolySafe - Multi-function polyester enclosures



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

Specifications

- 16 standard dimensions (from 500 x 500 mm to 1250 x 1000 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 self-extinguishing.
- 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.



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

Standards/Certification



- Single-door enclosure: type 3, 3R, 3S, 4, 4X, 12, 12K and 13
 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
	Order code	4TBP833194N0100
Enclosure with IP65 solid door	Туре	PS220P63
	Order code	4TBP833000C0100
Enclosure with IP54 inspection window (polycarbonate inspection window)	Type	PS220T43
	Order code	4TBP833850C0100
Weight (kg)		16
IP65 depth extension kit	Type	PS220D63



IP65 depth extension kit For increasing the standard depth of the enclosure from 320 mm to 640 mm. The kit	Туре	PS220D63
comprises 2 side panels, 1 upper panel, 1 lower panel, 2 rear open panels (frames).	Order code	4TBP833584C0100



Hoods Necessary if efficient (IP44) ventilation is required, includes drilled holes in the upper	Туре	PS200R03
panel and the use of fins.	Order code	4TBP833566C0100
The basis enclosure is IR65 rated the bond is entired. If larger		



widths or depths are required, please contact us.

Type	PS200Z03	
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



Mounting plates		
Dimensions (H - 110 mm x L - 110 mm)		
2 mm Sendzimir galvanized sheet metal	Type PS220M03	
	Order code 4TBP833500C0100	
Pertinax 5 mm	Type PS220I03	
	Order code 4TBP833508C0100	
Pertinax 10mm	Type -	
	Order code	

PolySafe - Universal polyester enclosures

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
PS230D63	-	PS320D63	P\$330D63	P\$340D63	PS350D63	P\$420D63
4TBP833585C0100		4TBP833586C0100	4TBP833587C0100	4TBP833588C0100	4TBP833589C0100	4TBP833590C0100
PS300R03	PS400R03	PS200R03	PS300R03	PS400R03	PS500R03	PS200R03
P5300R03	P5400R03	P5200R03	P5300R03	P5400R03	P5500R03	P5200R03
4TBP833568C0100	4TBP833570C0100	4TBP833566C0100	4TBP833568C0100	4TBP833570C0100	4TBP833572C0100	4TBP833566C0100
PS300Z03	PS400Z03	PS200Z03	PS300Z03	PS400Z03	PS500Z03	PS200Z03
4TBP833575C0100	4TBP833576C0100	4TBP833574C0100	4TBP833575C0100	4TBP833576C0100	4TBP833577C0100	4TBP833574C0100
PS300A03	PS400A03		PS300A03	PS400A03		_
4TBP833582C0100				4TBP833583C0100		
EH3SE1EI	EH3SE2EI	EH3SEXEI	EH3SE1EI	EH3SE2EI	_	EH3SEXEI
	4TBE843207R0100					4TBE843204R0100
115251525000250	115201320110200	11525 1525 MO205	115201323010100	1,520,1320,140,100		11920 1320 11020
PS320M03	PS420M03	PS320M03	PS330M03	PS430M03	PS530M03	PS420M03
4TBP833501C0100	4TBP833503C0100	4TBP833501C0100	4TBP833502C0100	4TBP833504C0100	4TBP833506C0100	4TBP833503C0100
PS320I03	PS420I03	PS320I03	PS330I03	PS430I03	PS530I03	PS420I03
4TBP833509C0100	4TBP833511C0100	4TBP833509C0100	4TBP833510C0100	4TBP833512C0100	4TBP833514C0100	4TBP833511C0100
-	-	-	-	-	PS833385	-
					4TBP833385N0100	

PolySafe - Universal polyester enclosures

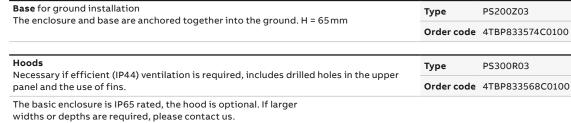
Base for ground installation





Depth = 320 mm		PS 430
Factory-assembled enclosures Equipped with AISI 304 stainless steel fixing lugs and handle (lock not supplied)		
Dimensions (HxL)		1000 x 750
Enclosure with IP55 solid door	Type	PS833204
	Order code	4TBP833204N0100
Enclosure with IP65 solid door	Type	PS430P63
	Order code	4TBP833028C0100
Enclosure with IP54 inspection window (polycarbonate inspection window)	Type	PS430T43
	Order code	4TBP833857C0100
Weight (kg)		30
IP65 depth extension kit For increasing the standard depth of the enclosure from 320 mm to 640 mm. The kit	Туре	PS430D63

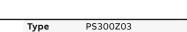




comprises 2 side panels, 1 upper panel, 1 lower panel, 2 rear open panels (frames).

The enclosure and base are anchored together into the ground. H = 70mm





Order code 4TBP833575C0100

Order code 4TBP833591C0100

PS200Z03

PS300R03

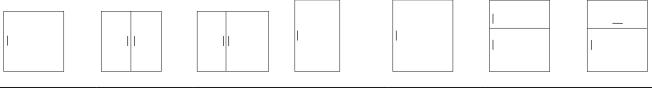






Mounting plates	
Dimensions (H - 110 mm x L - 110 mm)	
mm Sendzimir galvanized sheet metal	Type PS430M03
	Order code 4TBP833504C0100
Pertinax 5 mm	Type PS430I03
	Order code 4TBP833512C0100
Pertinax 10mm	Type -
	Order code

PolySafe - Universal polyester enclosures



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
PS440D63	PS440D63	PS833593	PS530D63	-	PS540D63	PS540D63
4TBP833592C0100	4TBP833592C0100	4TBP833593C0100	4TBP833594C0100		4TBP833595C0100	4TBP833595C0100
PS300Z03	PS400Z03	PS200Z03	PS300Z03	PS400Z03	PS500Z03	PS200Z03
4TBP833575C0100	4TBP833576C0100	4TBP833574C0100	4TBP833575C0100	4TBP833576C0100	4TBP833577C0100	4TBP833574C0100
PS400R03	PS400R03	PS500R03	PS300R03	PS400R03	PS400R03	PS400R03
				4TBP833570C0100		
410703337000100	410103337000100	410103331200100	410103330000100	410103337000100	410103337000100	410-63337000100
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
PS440M03	PS440M03	PS540M03	PS530M03	PS540M03	PS540M03	PS540M03
4TBP833505C0100	4TBP833505C0100	4TBP833507C0100	4TBP833506C0100	4TBP833507C0100	4TBP833507C0100	4TBP833507C0100
PS440I03	PS440I03	PS540I03	PS530I03	PS540I03	PS540I03	PS540I03
4TBP833513C0100	4TBP833513C0100	4TBP833515C0100	4TBP833514C0100	4TBP833515C0100	4TBP833515C0100	4TBP833515C0100
PS833386	PS833386	PS833387	PS833385	PS833387	PS833387	PS833387
4TBP833386C0100	4TBP833386C0100	4TBP833387C0100	4TBP833385N0100	4TBP833387C0100	4TBP833387C0100	4TBP833387C0100

PolySafe - Modular framework for DIN-rail equipment - IP20



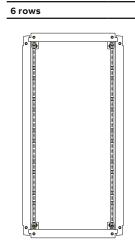


Supplied as a self-assembly kit

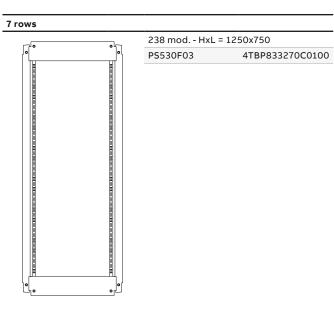
- Kit contains:
- 2 x support for left-hand vertical profile
- 2 x support for right-hand vertical profile
- 2 x vertical profiles
- 2 x IP20 insulated vertical profiles
- 2 x IP20 insulated horizontal profiles
- assembly accessories

Product		Type	Order code	
2 rows				
		40 mod HxL =	= 500x500	
,	•	PS220F03	4TBP833264C0100	
[]	8	68 mod HxL =	xL = 500x750	
3-1 3-1 3-1	\$ \$ \$	PS230F03	4TBP833265C0100	
X 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8 6 8			

Product		Type	Order code
4 rows		'	'
		80 mod HxL =	750×500
١		PS320F03	4TBP833266C0100
‡	136 mod HxL = 750x750		
		PS330F03	4TBP833267C0100
9			
000	=		



120 mod. - HxL = 1000x500 PS420F03 4TBP833268C0100 204 mod. - HxL = 1000x750 PS430F03 4TBP833269C0100



PolySafe - Modular functions and accessories

Modular functions for DIN equipment (to be mounted on the modular frame)



Contents:

- DIN rail
- cover plate with rectangular opening
- mounting accessories

Center line distance 15	0mm		
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

Product

- solid cover plate
- mounting accessories

Center line distance 15	0 mm		
Height	Width	500mm	750mm
150mm		•	<u>[</u>
	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	00 mm	
	PS833275	4TBP833275C0100	1
	HxL = 150x750mm		
	PS833281	4TBP833281C0100	1
	HxL = 300x50	00 mm	
	PS833276	4TBP833276C0100	1
	HxL = 300x75	50 mm	
	PS833282	4TBP833282C0100	1

Accessories (to be mounted on the modular frame)

Type

Order code

Pack

Depth extension studs for m screws - (1 set = 2 pieces)	etal mounting	plates with n. 2 M5×10	
	Length 20-35	5-50mm	
	VMW2050	4TBW828059C0100 1	
	Length 25-40	D-55 mm	
	VMW2555	4TBW828060C0100 1	
	Length 30-45-60mm		
	VMW3060	4TBW828061C0100 1	
	Length 65-80-95 mm		
	VMW6595	4TBW828062C0100 1	
	Length 70-85-100 mm		
	VMW70100	4TBW828063C0100 1	
	Length 75-90)-105 mm	
	VMW75105	4TBW828064C0100 1	
	Length 110-1	.25-140 mm	
	VMW110	4TBW828031C0100 1	

PolySafe - Accessories

Product	Туре	Order code	Pack
Profile half cylinder locks			
Standard: D = 40 mm - L = 30.5	mm		
0 7\ -	With 2 keys V2	432-E	
	PS832030	4TBP832030C0100	1
	Replacement l	keys for PS832030	
	PS832741	4TBP832741R0100	2
	With 2 keys 12	42-E	
(7)	PS832031	4TBP832031C0100	1
\ <u>\</u> \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	With 2 keys 455-E		
	PS832465	4TBP832465C0100	1
U	With 2 keys 40	5-E	
(7)	PS832466	4TBP832466R0100	1
U	With 1 square	key, 8 mm	
0	PS832032	4TBP832032C0100	1
	With an 8mm	triangular key	
	PS832033	4TBP832033C0100	1
	With an 11 mm	triangular key	
	PS832034	4TBP832034C0100	1
	With 1 double	-bit key, 3 mm	
•	PS832029	4TBP832029C0100	1

2	
1	
1	
1	
1	
	_
1	
1	_
1	

Product	Type	Order code	Pack
Door stop/Canopy stop			
Opening angle of 100° of the d	loor or canopy (for >750-wide enclosu	ires)
	Left turning		
	PS833649	4TBP833649C0100	1
	Right turning		
	PS833650	4TBP833650C0100	1
		-	
Wall mounting supports for s			
		g 4 fixing lugs that	
	clip into the rear of the enclosure. In Type 304 grade stainless steel. (replacement)		
	PS833651	4TBP833651C0100	1

Handle



For lock with half cylinder profile (as replacement)

PS833629 4TBP833629C0100 1

Padlocking handle



For padlock (Ø 10 mm max.)
PS833630 4TBP833630R0100 1

Depth adjustment kit



Set of 4 brackets for adjusting the depth of the mounting plates (12.5 mm increments)

PS833528 4TBP833528C0100 1

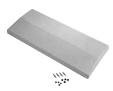
Wall fixing lugs for enclosures equipped with a hood.



Kit comprising 4 fixing lugs that clip into the rear of the enclosure.

PS833624 4TBP833624C0100 1

Rainhood



Rainhoods for enclosure combinations. Standard rainhoods in the enclosure selection tables.

/xD)		
PS833656	4TBP833656C0100	1
PS833657	4TBP833657C0100	1
PS833658	4TBP833658C0100	1
PS833659	4TBP833659C0100	1
PS833660	4TBP833660C0100	1
PS833661	4TBP833661C0100	1
PS833693	4TBP833693C0100	1
PS833692	4TBP833692C0100	1
PS833783	4TBP833783C0100	1
PS833784	4TBP833784C0100	1
PS833743	4TBP833743C0100	1
PS833691	4TBP833691C0100	1
PS833764	4TBP833764C0100	1
	PS833657 PS833658 PS833659 PS833660 PS833661 PS833693 PS833692 PS833783 PS833784 PS833743 PS833691	PS833656 4TBP833656C0100 PS833657 4TBP833657C0100 PS833658 4TBP833658C0100 PS833659 4TBP833659C0100 PS833660 4TBP833660C0100 PS833661 4TBP833661C0100 PS833693 4TBP833693C0100 PS833783 4TBP833783C0100 PS833784 4TBP833784C0100 PS833743 4TBP833743C0100 PS833743 4TBP833743C0100

PolySafe - Accessories

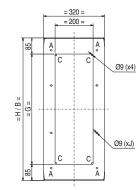
Product	Type	Order code	Pack
Pole mounting			
	Width = 50	0 mm	
	PS833625	4TBP833625C0100	1
	Width = 75	0 mm	
	PS833626	4TBP833626C0100	1
	closure and a Metal sheet i ing to the pe Securing clai	, at the rear of the en- iffixed to the lugs. s used for secur- destal. nps are attached to the proi at the metal sheet is held fas	

Product	Type	Order code	Pack
IP20 inner door			
HxW			
	500x500mm	1	
	PS833556	4TBP833556C0100	1
	500x750mm	1	
	PS833557	4TBP833557C0100	2
1	750x500mm	1	
. 4	PS833558	4TBP833558C0100	1
	750x750mm		
	PS833559	4TBP833559C0100	1
MARKET TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO IN COLUMN TO THE PERSON NAMED IN	1000x500m	m	
	PS833561	4TBP833561C0100	1
	1000x750mi	m	
	PS833562	4TBP833562C0100	1
	Frame and door with two double-bit closures. For control and automation applications.		

IP65/IP54 coupling kit					
Н/В	G	J	Depth 320 m	ım	
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 contains the neoprene seal and the securing screws.







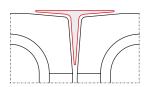
To fill up the corner between two coupled enclosures



 Length = 308mm

 PS833653
 4TBP833653R0100
 1

 Use 2 profiles when coupling n.4 enclosures



Solid front plates for 19"/ETSI frame

For filling remaining empty spaces

For cabinets H x W = 500 x 750
Front plate height = 32 mm

PS833684 4TBP833684C0100 1

For cabinets H x W = 750 x 750
Front plate height = 15 mm

PS833685 4TBP833685C0100 1

For cabinets H x W = 1250 x 750
Front plate height = 28 mm

PS833686 4TBP833686C0100 1

Metal: RAL 7035 epoxy coating
Note: not required for H x W
= 1000 x 750 cabinets

PolySafe - Accessories

Product	Type	Order code	Pack
Ventilation grille 🗉			
	PS832019	4TBP832019C0100	1
	•	the ventilation opening. 2 grilles and 4 nylon screw	s.
Δ Δ Δ 130 150			

Product	Type	Order code	Pack
Document pocket			
	DIN A4 - BxL	325x180mm	
	AR811516	4TBC811516C0100	1
/ 0 0 // ~	DIN A5 - BxL= 155x225mm		
	PS832000	4TBP832000C0100	1

Air vents IP44



Set of 2 polyamide pieces RAL 7035

PS833677 4TBP833677C0100 1

2 fins must be provided per enclosure in order to provide efficient ventilation and to prevent the formation of condensation. Supplied with a template and fixings. It is recommended to install the fins in the upper and lower sections of the enclosure.



Screws



Mounting plate installation kit (8 nuts and bolts).

PS833790 4TBP833790C0100 1 set

 $7.2 \times 22 + M8 \times 19$ assembly screws for assembling the mounting plate and side panel with the lower panel/hood.

PS833687 4TBP833687C0100 100

 7.2×22 securing screw for rear panel

PS833688 4TBP833688C0100 100

General purpose enclosuresPolySafe - Accessories

Product		Туре	Order code	Pack
Nut made fr	om insulating ma	terial		
Hex.	RAL 7035			
	10	KIM601225	4TBC601225C0100	100
	13 10 10 14 14 14 15 16 16 16 16 16 16 16			

Screws			
	M6 flange sc	rew	
	ACC811483	4TBC811483C0100	100
12			
→ M6 →			
014	PVC M6 screv	w for cover plate (seala	ıble)
- 58	ACC811451	4TBC811451R0100	100
We			

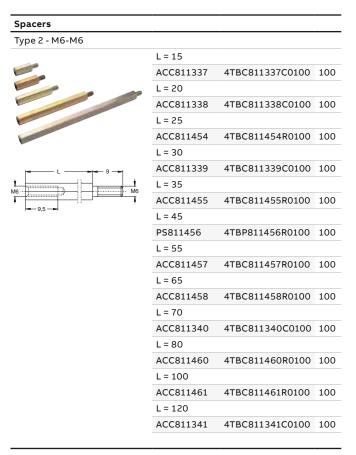
	M6		
	ACC811435	4TBC811435C0100	100
18 - 4	M4		
	ACC811438	4TBC811438C0100	100
	M6		
	ACC811446	4TBC811446C0100	100
	M8		
	ACC811447	4TBC811447C0100	100

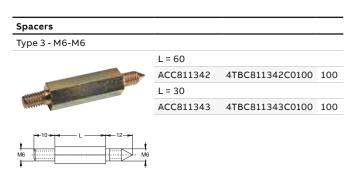
PolySafe - Accessories

Product	Туре	Order code	Pack
Brackets			
0	L = 40 - A = 24	1 - C = 9,5	
- C - A - 5	ACC811478	4TBC811478R0100	100
4 9	L = 80 - A = 64	1 - C = 9,5	
	ACC811479	4TBC811479R0100	100
- 2			
-			
18:5			
<u>∞</u> === 			
20	L = 120 - A = 6	54 - C = 49,5 - E = 41.5	
	ACC811480	4TBC811480C0100	100
4—————————————————————————————————————	2		
E — E — 2			
30 0			



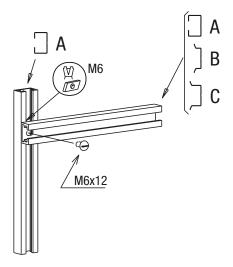
Product	Type	Order code	Pack
Spacers			
Type 1 - M4-M6		,	
	L = 15		
THE PARTY OF THE P	ACC811336	4TBC811336C0100	100
M4 - 9,5 - M6			

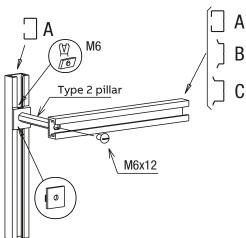




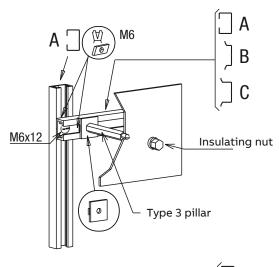
PolySafe – Alu frame mounting applications

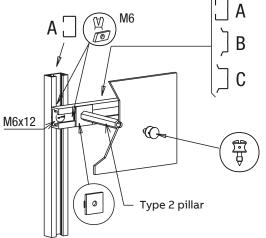
Alu frame with progressive adjustment





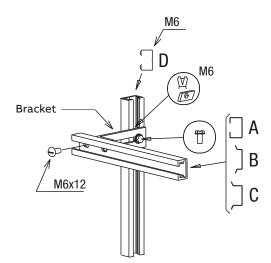
Installation of the cover plate





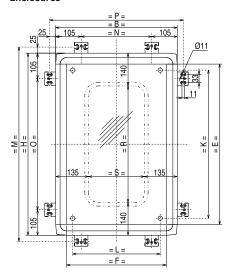
Note: Same installation technique as for the cover plate on the mounting plate.

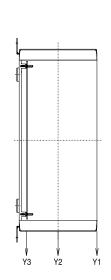
Alu frame with adjustment in 12.5 mm increments

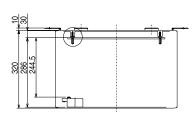


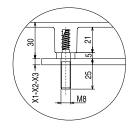
PolySafe – Dimensions

Enclosures

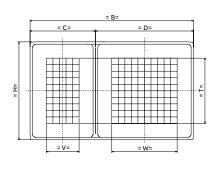


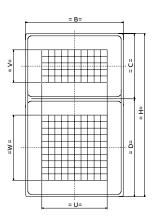






Usable mounting space on the doors

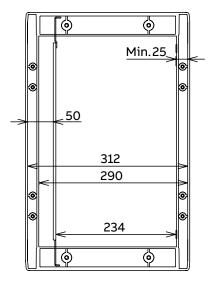




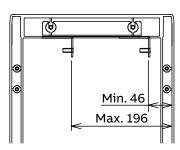
Dime	nsions	;																						
Туре	Н	В	С	D	E	F	K	L	М	N	0	Р	R	S	Т	U	V	W	X1	X2	ХЗ	Y1	Y2	Υ3
220	500	500			410	410	360	360	550	290	290	550	220	230	250	250			5	2	-	8	80	110
230	500	750			410	660	360	610	550	540	290	800	220	480	250	500			5	2	-	8	80	110
320	750	500			660	410	610	360	800	290	540	550	470	230	500	250			5	2	-	8	80	110
330	750	750			660	660	610	610	800	540	540	800	470	480	500	500			5	2	-	8	80	110
340	750	1.000			660	910	610	860	800	790	540	1050	470	730	500	750			5	2	-	6	80	110
352	750	1.250	500	750	660		610	1.110	800	1.040	540	1.300			500		250	500	5	2	10	5	80	110
420	1.000	500			910	410	860	360	1.050	290	790	550	720	230	750	250			5	2	-	8	80	110
430	1.000	750			910	660	860	610	1.050	540	790	800	720	480	750	500			5	2	-	8	80	110
440	1.000	1.000			910	910	860	860	1.050	790	790	1.050	720	730	750	750			5	2	10	6	80	110
442	1.000	1.000	500	500	910		860	860	1.050	790	790	1.050			750		250	250	5	2	10	6	80	110
452	1.000	1.250	500	750	910		860	1.110	1.050	1.040	790	1.300			750		250	500	5	2	10	5	80	110
530	1.250	750			1.160	660	1.110	610	1.300	540	1.040	800	970	480	1.000	500			5	2	10	8	80	110
542	1.250	1.000	500	750		910	1.110	860	1.300	790	1.040	1.050				750	250	500	5	2	10	6	80	110
546	1.250	1.000	500	750		910	1.110	860	1.300	790	1.040	1.050				750	250	500	5	2	10	6	80	110
	Enclos extern dimer	nal	Door dimer	nsions	Enclos let-th		Centre the mo	es of ounting		s for w	all mou	nting	Wind surfa			e mou e door	nting s s	pace		kness moun e			nissib ge in	
																			X2 = r	pertinax metal perforat pertinax	ed 2 mn	n		

PolySafe – Dimensions

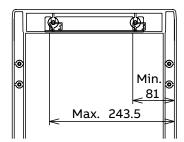
Inner door



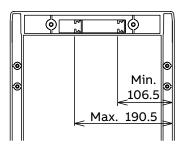
Adjustable mounting plate



Adjustable mounting frame in steps of 12.5 mm



Continuously adjustable mounting frame



PolySafe - Power dissipation values

Rear ag	gains	t wal	l (wa	II mo	untir	ng)					Те	mpera	ature	rise [K	[elvin									
Dissipa-	PS 22	20	PS 23	30	PS 32	20	PS 33	30	PS 34	10	PS 35	2	PS 42	20	PS 43	30	PS 44	10/442	PS 45	2	PS 53	0	PS 54	2/546
tion	500×	500	500×	750	750×	500	750×	750	750×	1.000	750×	1.250	1.000	0×500	1.000	0×750	1.000	×1.000	1.000	×1.250	1.250	×750	1.250	×1.000
Watt	Half	Top	Half	Top	Half	Top	Half	Top	Half	Top	Half	Top	Half	Top	Half	Top	Half	Top	Half	Top	Half	Тор	Half	Тор
10	4	5	4	4	4	5																		
20	8	9	7	7	6	8	5	6	4	5			5	7										
30	11	13																						
40	13	16	11	13	11	14	9	11	7	9	6	7	9	13	7	9	5	7	5	6	5	8		
50	16	19																						
60	19	22	16	18	16	19	12	16	10	12	8	10	12	18	10	13	7	10	6	8	8	11	6	8
70	21	25																						
80	23	28	20	23	20	24	15	20	12	16	10	12	16	22	12	16								
90	26	31																						
100	28	33	24	27	23	29	18	23	15	19	12	14	19	27	14	19	11	14	9	12	11	16	9	13
120	32	38	28	31	27	33	21	27					22	31	17	23								
140	37	44	31	35	31	38	24	31	19	24	15	19	25	35	19	26	15	19	12	16	15	21	12	16
160	41	48	35	39	34	42	27	34					27	39	21	28								
180	45	53	38	43	38	46	29	38	24	30	19	23	30	43	23	31	18	23	15	19	18	25	15	20
200	49	58	42	47	41	51	32	41					33	47	25	34								
220	53	63	45	51	44	55	34	44	28	35	22	27	35	50	27	37	21	27	18	23	21	30	18	24
240			48	55	47	58	37	47					38	54	29	39								
260			52	58	51	62	39	51	32	40	25	31	40	58	31	42	24	31	20	26	24	34	20	27
280							42	54					43	61	33	45								
300							44	57	36	45	28	35	45	65	35	47	27	35	23	29	27	38	23	30
350							50	64	40	51	32	40	51	73	40	53	30	39	26	33	31	43	25	34
400									45	57	36	44			44	59	34	44	29	37	34	48	28	38
450									49	62	39	48			48	65	37	48	32	40	38	53	31	42
500											43	53			53	71	40	53	34	44	41	58	34	46
550											46	57					44	57	37	47	45	63	37	49
600											49	61					47	61	40	51	48	67	39	53
650											53	65					50	65	42	54	51	72	42	57
700																			45	57			45	60
750																			48	61			47	63
800																			50	64			50	67

Front, le	eft a	nd up	pers	ide 1	free						Te	mpera	ature i	ise [K	[elvin]									
Dissipa-	PS 22	0	PS 23	-	PS 32	20	PS 33	30	PS 34	10	PS 35	2	PS 42	0	PS 43	30	PS 44	0/442	PS 45	2	PS 53	10	PS 54	2/546
tion	500×	500	500×		750×		750×	750		1.000		1.250	1.000			×750				×1.250	1.250	×750		×1.000
Watt	Half	Тор	Half	- 1	Half	<u> </u>	Half	Тор	Half	Тор	Half	Тор	Half	Тор	Half	Тор	Half	Тор	Half	Тор	Half	Тор	Half	Тор
10	4	5	4	4	4	5																		
20	8	10	7	8	7	8	5	7	4	5			5	8	4	6								
30	11	13	9	11	9	12																		
40	14	17	12	13	12	15	9	12	7	9	6	7	10	13	7	10	6	7	5	6	6	8	5	6
50	17	20	14	16	14	17																		
60	19	23	16	19	16	20	13	16	10	13	8	10	13	19	10	14	8	10	7	8	8	11	7	9
70	22	26	19	21	19	23																		
80	25	29	21	23	21	25	16	20	13	16	10	13	17	23	13	17	10	13	8	10	10	14	8	11
90	27	32	23	26	23	28																		
100	29	35	25	28	25	30	19	24	16	19	12	15	20	28	16	21	12	15	10	12	12	17	10	13
120	34	40	29	32	29	35	22	28	18	22			23	32	18	24								
140	39	46	32	37	32	40	25	32	20	25	16	20	26	37	20	27	15	20	13	16	16	22	13	17
160	43	51	36	41	36	44	28	35	23	28			29	41	23	30								
180	47	56	40	45	40	49	31	39	25	31	20	24	32	45	25	33	19	24	16	20	20	27	16	21
200	51	61	43	49	43	53	33	42	27	34			35	49	27	36								
220			47	53	47	57	36	46	29	36	23	28	38	53	29	39	22	28	19	23	23	32	19	25
240			50	56	50	62	39	49	32	39			40	57	32	42								
260							41	52	34	42	27	32	43	60	34	45	25	32	21	27	27	37	21	28
280							44	55	36	44			46	64	36	47								
300							46	58	38	47	30	36	48	68	38	50	28	36	24	30	30	41	24	32
350							52	66	43	53	34	41	55	77	43	57	32	41	27	34	34	47	27	36
400									48	59	38	46			48	63	36	46	30	38	38	52	30	40
450									52	65	41	50			52	69	39	50	33	41	41	57	33	44
500											45	55					43	55	36	45	45	62	36	48
550											49	59					46	59	39	49	49	67	39	52
600											52	63					50	63	42	52	52	72	42	55
650																			45	56			45	59
700																			47	59			47	63
750																			50	62			50	66

PolySafe - Power dissipation values

Frontsi	ide ar	nd up	pers	ide f	ree						Те	mpera	ature i	rise [K	[elvin									
Dissipa-	PS 22	20	PS 23	10	PS 32	20	PS 33	30	PS 34	10	PS 35	52	PS 42	20	PS 43	30	PS 44	10/442	PS 45	52	PS 53	30	PS 54	2/546
tion	500×	500	500×	750	750×	500	750×	750	750×	1.000	750×	1.250	1.000)×500		0×750				×1.250	1.250)×750		×1.000
Watt	Half	Тор	Half	Top	Half		Half	Тор	Half	Top	Half	Тор	Half	Top	Half	Тор	Half	Тор	Half	Top	Half	Top	Half	Тор
10	5	6	4	5	4	5																		
20	9	10	7	8	7	9	5	7	5	5			6	8	5	6								
30	12	14	10	11	10	12																		
40	15	18	12	14	12	15	10	12	8	9	6	7	11	13	8	10	6	7	5	6	7	9	5	6
50	18	21	15	17	15	18																		
60	21	25	17	19	17	21	13	16	11	13	9	10	15	19	11	14	8	10	7	8	9	12	7	9
70	23	28	19	22	19	24																		
80	26	31	21	24	22	27	17	20	14	16	11	13	19	23	14	18	11	13	9	11	11	15	9	11
90	29	34	23	26	24	29																		
100	31	37	26	29	26	32	20	25	17	20	13	15	23	28	17	22	13	16	10	13	14	18	11	14
120	36	43	30	33	30	37	23	28	19	23			26	33	19	25	15	18						
140	41	49	33	38	34	42	26	32	22	26	17	20	30	37	22	28	17	21	14	16	18	24	14	18
160	46	54	37	42	38	47	29	36	24	29			33	41	25	31	18	23						
180	50	59	41	46	42	51	32	39	27	32	21	25	36	45	27	35	20	25	17	20	22	29	17	22
200			45	50	45	56	35	43	29	34			39	49	29	38	22	27						
220			48	54	49	60	38	46	31	37	25	29	42	53	32	41	24	29	20	24	26	35	20	26
240			52	58	52	65	41	50	33	40			46	57										
260							43	53	36	42	28	33	49	61	36	46	27	34	22	27	29	40	23	29
280							46	56	38	45			52	64										
300							48	59	40	48	32	37			41	52	31	38	25	30	33	44	24	33
350							55	67	45	54	36	42			46	59	35	43	28	34	37	50	26	37
400									50	60	40	47			51	66	39	48	32	38	42	56	29	41
450											44	52					42	52	35	42	46	61	32	45
500											48	56					46	57	38	46	50	67	38	49
550											52	61					50	62	41	50			42	53
600																			44	53			45	57
650																			47	57			47	61
700																			50	60			50	65

Frontsi	ide fr	ee, u	pper	side	not f	ree					Te	mpera	ature i	ise [K	(elvin]	l								
Dissipa-	PS 22	0	PS 23	0	PS 32	20	PS 33	30	PS 34	10	PS 35	2	PS 42	20	PS 43	30	PS 44	0/442	PS 45	2	PS 53	0	PS 54	2/546
tion	500×	500	500×	750	750×	500	750×	750	750×	1.000	750×	1.250	1.000	×500	1.000	0×750	1.000	×1.000	1.000	×1.250	1.250	×750	1.250	×1.000
Watt	Half	Top	Half	Top	Half	Тор	Half	Тор	Half	Тор	Half	Top	Half	Top	Half	Тор	Half	Тор	Half	Top	Half	Top	Half	Тор
10	6	7	4	5	4	5							4	5										
20	10	12	8	9	8	9	6	8	5	6	4	5	7	8	5	7					4	6		
30	14	16	11	12	11	13							9	11										
40	17	20	13	15	13	16	11	13	9	11	7	9	12	14	9	12	7	9	5	7	7	10	5	7
50	20	24	16	18	16	20							14	17										
60	24	28	19	21	18	23	15	18	12	15	10	13	16	20	12	16	10	12	8	9	10	14	7	10
70	27	32	21	24	21	26																		
80	30	35	24	27	23	28	19	23	16	19	13	16	20	25	15	20	12	16	10	12	13	18	9	13
90	33	39	26	29	25	31																		
100	36	42	28	32	28	34	23	28	19	23	16	19	24	30	18	24	15	19	11	14	15	21	11	15
120	41	49	33	37	32	39	27	32	22	27	18	22	28	35	21	28					18	24		
140	47	55	37	42	36	45	31	36	24	30	21	25	32	39	24	32	19	25	15	19	20	28	15	20
160	52	62	41	46	40	50	34	40	27	33	23	28	35	44	27	35					22	31		
180			45	51	44	55	37	44	30	37	25	30	39	48	29	39	23	30	18	23	24	34	18	24
200			49	55	48	60	41	48	32	40	27	33	42	53	32	42								
220			53	60	52	64	44	52	35	43	30	36	46	57	35	46	28	35	22	27	29	40	21	28
240							47	56	38	46	32	38	49	61	37	49								
260							50	60	40	49	34	41	52	65	40	52	32	40	25	31	33	45	24	32
280									43	52	36	43			42	56								
300									45	55	38	46			44	59	35	45	28	34	37	51	27	36
350									51	63	43	52			50	66	40	51	31	39	42	58	31	41
400											48	58					45	57	35	43	46	64	34	46
450											52	64					49	63	38	48	51	70	38	50
500																	53	68	42	52			41	55
550																			45	56			44	59
600																			48	60			48	63
650																			51	64			51	67

PolySafe - Power dissipation values

Stand a	alone										Te	mpera	ature i	rise [K	elvin]									
Dissipa-	PS 22	:0	PS 23	0	PS 32	20	PS 33	30	PS 34	10	PS 35	2	PS 42	20	PS 43	80	PS 44	0/442	PS 4	52	PS 53	30	PS 54	12/546
tion	500×	500	500×	750	750×	500	750×	750	750×	1.000	750×	1.250	1.000	0×500	1.000	×750	1.000	×1.000	1.000	0×1.250	1.250)×750	1.250	×1.000
Watt	Half	Тор	Half	Top	Half	Тор	Half	Тор	Half	Тор	Half	Top	Half	Тор	Half	Тор	Half	Тор	Half	Тор	Half	Тор	Half	Тор
20	7	9	6	7	6	8	4	6					5	7										
40	13	15	10	13	10	13	8	10	6	8	5	6	8	12	6	8	5	6	4	5	5	7		
60	17	21	14	17	14	19	11	14					11	16	8	11								
80	22	26	17	22	17	23	13	18	10	13	9	11	14	21	10	14	8	11	7	9	8	12	7	9
100	26	31	21	26	20	28	16	21					17	25	12	16								
120	30	36	24	30	24	33	19	25	14	18	12	15	20	28	14	19	11	15	9	12	12	17	9	13
140	34	41	27	34	27	37	21	28					22	32	16	22								
160	38	46	30	38	30	41	24	31	18	23	15	19	25	36	17	24	14	19	12	15	15	21	12	16
180	42	50	33	42	33	45	26	34					27	39	19	26								
200	46	55	36	46	36	49	28	37	21	27	18	23	29	43	21	29	17	22	14	18	17	25	14	19
220	50	59	39	50	38	53	30	40					32	46	23	31								
250			43	55	43	59	34	45	25	33	21	27	35	51	25	34	20	27	17	22	21	30	17	23
300			50	64	49	68	39	52	29	38	25	31	41	59	29	40	23	31	19	25	24	34	19	27
350							44	58	33	43	28	36	46	67	33	45	26	35	22	29	27	39	22	30
400							49	65	37	48	31	40	51	75	36	50	29	39	24	32	30	43	24	34
450							54	71	41	53	34	43			40	55	32	43	27	35	33	48	27	37
500									44	57	37	47			44	60	35	47	29	38	36	52	29	40
550									48	62	40	51			47	65	38	51	32	41	39	56	31	43
600									51	66	43	55			50	69	41	54	34	44	42	60	34	46
700											49	62					46	61	38	50	48	68	38	53
800											54	69					51	68	43	56	53	76	42	58
900																			47	61			47	64
1.000																			51	67			51	70

Notes

06

Accessories

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Accessories

Index

Accessories

Heater units	100
Heaters	102
Thermostat	107
Hygrotherm	110
Hygrostat	111
Passive cabinet ventilation	112
Ventilation kits	114
General Accessories	116

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: $P = Ax\Delta Txk$

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 35 mm DIN rail (EN 50 022). Recommended installation in the lower section of the enclosure, at least 40 mm 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 mm ² 2-pole terminal, max. tightening torque 0.8 Nm
Вох	plastic material in accordance with UL94 V-0, black
Attachment	clip for 35 mm 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 $\pm 5~\mathrm{K}$

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 m 3 /h, CSL 028: 45 m 3 /h (230 V AC), 54 m 3 /h (120 V AC), life cycle 40,000 h at +40 $^\circ$ C (+104 $^\circ$ 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 35 mm DIN rail, EN 60715 or screw attachment (Ø 5.3 mm)
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

	9								
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 $^{\circ}\text{C}$

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
Вох	plastic material in accordance with UL94 V-0, black
Attachment	clip for 35 mm DIN rail, EN 60715 or screw attachment (Ø 5.5 mm), 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: 0.5 kg
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 \pm 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

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 m 3 /h, unimpeded air flow life cycle 50,000 h at +25 °C (+77°F)
Connection	2.5 mm² double 3-pole spring terminal for solid cable or 1.5 mm² for multi-strand wire with terminal connectors
Вох	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 89 mm
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 $\rm m^3/h).$ 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 $^{\circ}\text{C}$

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 shutdown $% \left(1\right) =\left(1\right) \left(1\right) \left$
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
Вох	plastic material UL94 V-0, light gray
On/Off indicator	LED indicator
Attachment	clip voor 35 mm 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	4TBJ818193C0100	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

<u> </u>	
Heating element	PTC resistor, self-regulating
Temperature limiter	prevents any overheating in the event of fan failure, automatic shutdown
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
Вох	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	182x160x120 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
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 $^{\circ}\text{C}$

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

Accessories - Thermostat

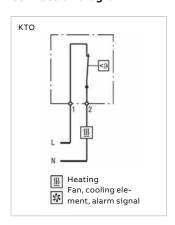


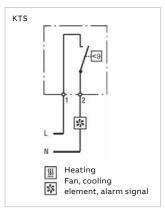
кто



KTS

Connection diagram





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.

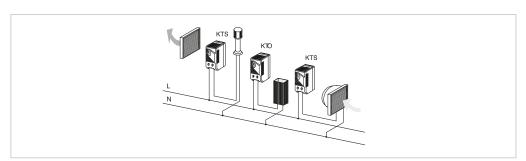
KTS 011

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: hysteresis temperature	+10 - +50°C or 0 - +60°C 7 K (±4 K tolerance)	+10 - +50°C or 0 - +60°C 7 K (±4 K tolerance)		
Contact type	NC	NO		
Power	250 V AC, 10 (2) A 120 V AC, 15 (2) A 30 W DC on 24 V DC to 72 V DC	250 V AC, 10 (2) A 120 V AC, 15 (2) 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 torque 0.5 Nm: 2.5 mm² solid cable (AWG 16), 1.5 mm² flexible cable (AWG 14)		
Installation	clip for 35 mm DIN rail, EN 60715	clip for 35 mm DIN rail, EN 60715		
Вох	plastic material UL94 V-0, light gr	plastic material UL94 V-0, light gray		
Anti-interference	N in accordance with VDE 0875			

Values between parentheses: inductive load cos ϕ = 0.80



Ordering information

	Temperature	Туре	Order code	Pack
кто	-10° to +50°C	ACC818265	4TBJ818265C0100	1
кто	0° to +60°C	ACC818080	4TBJ818080C0100	1
KTS	-10° to +50°C	ACC818266	4TBJ818266C0100	1
KTS	0° to +60°C	ACC818081	4TBJ818081C0100	1

Accessories - Thermostat



FZK 011

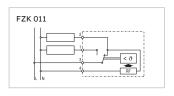


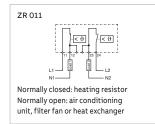
ZR 011

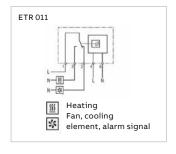


ETR 011

Connection diagram







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.

F7K 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	100g	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. tightening torque 0.5 Nm: 2.5 mm² solid cable (AWG 14) 1.5 mm² flexible cable (AWG 16)			
Installation	clip for 35 mm 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	4TBJ818079C0100	1
FZK 011	-20° to +35°C	ACC818269	4TBJ818269C0100	1
ZR 011	0° to +60°C	ACC818217	4TBJ818217C0100	1

(1) At an ambient temperature of 20 $^{\circ}\text{C}$

Accessories - Thermostat

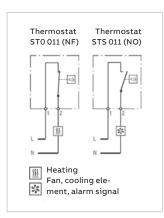


FTO 011



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

reeminear 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 35 mm 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	Type	Order code	Pack
STO 011	NC	0° to 60°C	ACC818267	4TBJ818267C0100	1
STS 011	NO	0° to 60°C	ACC818268	4TBJ818268C0100	1

Accessories - Hygrotherm



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

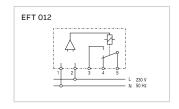
Technical specifications

Adjustment range:	
- Temperature	0°C to 60°C
- Hysteresis	2K
- 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	140 g
Dimensions (HxWxD)	50 x 67 x 43 mm
Protection rating	IP20
Connection	2.5 mm² screw-in terminals
Attachment	35 mm DIN rail(EN 50022)
Box	plastic UL 94 VO
Anti-interference	N in accordance with VDE 0875

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

Ordering information

Connection diagram



	Type	Order code	Pack
ETF 012	ACC818083	4TBJ818083C0100	1
ETF 012 with external sensor	ACC818271	4TBJ818271C0100	1

Accessories - Hygrostat



MFR 012



EFR 012

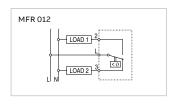
The humidity regulator is designed to control the temperature and air humidity inside the enclosure. The regulator is activated when the humidity level reaches 65%. In doing so, the system efficiently prevents the risk of condensation and corrosion.

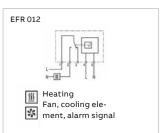
Technical specifications

	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 ϕ 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 \times 2.5 mm^2	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 35 mm DIN rail, EN 60715
Protection rating	IP20	IP20
Dimensions (HxWxD)	67 x 50 x 38 mm	64.5 x 42 x 38 mm
Weight	60 g	70g

(1) Values between parentheses: inductive load cos ϕ = 0.80

Connection diagram





Ordering information

	Туре	Order code	Pack
MFR 012	ACC818190	4TBJ818190C0100	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	Type	Order code	Pack
IP44 ventilation grille			
Suitable for a ventilation of Includes 2 grilles and 4 nyl		nsulation.	



2000 mm² grille	PS832019	4TBP832019C0100	1
170 - 05,3			



4500 mm² grille	PS832744	4TBP832744C0100	1
130 150			



P44 vent	(RAI	7035)

In order to guarantee sufficient ventilation and to avoid condensation, two vents must be installed; one at the top and a second one at the bottom. Kit includes: drilling template.

Set of 2 polyamide pieces PS833677 4TBP833677C0100 1







Vents (IPx4)			
Improve ventilation and prever installation above or below the		n. Recommended	
	MB961729	ATRG861728P0100	25



Product	Туре	Order code	Pack
IP55 pressure compa	ensation plug		

Hermetically sealed cabinets and enclosures are subjected to thermal or exterior influences, which result in temperature fluctuations during changes in pressure. Pressure compensation plugs compensate for changes in pressure and prevent the ingress of dust and moisture. The plug is suitable for use in electrical cabinets and enclosures, in accordance with the DIN EN 62208 standard.

Set of 2 pieces	ACC818078	4TBJ818078R0100	1
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Technical specifications		
Dimensions	ø 65.5 mm x 30.5 mm	
Cut-out	ø 37 mm	
Attachment	PG 29 threaded or nut	
Material	ABS/PC	
Air inlet	±1.5 cm ²	
Protection rating	IP55	
Note:	compensation for optimal pressure revolves around the use of 2 plugs, diagonally opposed. If the plug is not installed vertically, the protection rating is reduced to IP54.	





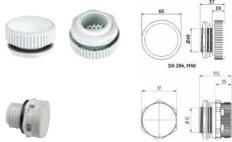
Vents - IP44 ⁽¹⁾			
Set of 2 pieces, bore	AR831009	4TBA831009C0100	1



(1) If positioned in the corners of an Aria cabinet or under the hood of a PolySafe cabinet

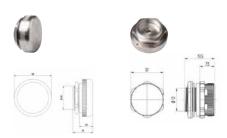
Accessories - Passive cabinet ventilation

Product	Type	Order code	Pack
Pressure regulator plug - IP66	;		
Set of 2 pieces			
M40	ACC818223	4TBJ818223R0100	1
Highly resistant to poor M40 weather conditions and UV, compliant with the UL746C standard	ACC870418	4TBJ870418C0100	1
M12	ACC818287	4TBJ818287C0100	1



Installation	M40 x 1.5 or M12 x 1.5 thread with nut.
Torque	M40: 5 Nm, M12: 0.5 Nm
Mounting depth	M40: approximately 16 mm, M12: approximately 8 mm
Sealing	NBR seal
Filter	waterproof membrane
Dimensions	M40: Ø 60 x 37 mm, M12: Ø 17 x 17.5 mm
Installation	mandatory
Certification	UL (870418), EAC

Pressure compensation plug - IP66			
STAINLESS AISI 304	ACC818288	4TBJ818288C0100	1
STAINLESS AISI 304	ACC818289	4TBJ818289C0100	1
STAINLESS AISI 316L	ACC818290	4TBJ818290C0100	1



Installation	M40 x 1.5 thread with nut.
Torque	5 Nm
Mounting depth	9 mm approximately
Sealing	NBR seal
Filter	waterproof membrane
Air permeability	1200 l/h with a pressure difference of 70 mbar min.
Dimensions	Ø 58 x 31 mm
Installation	mandatory
Operating/storage temperature	-45 to +80°C (-49 to +176°F)
Certification	EAC

DAK 284

Product			Туре	Order code	Pack
Ventilated cab	le gland	l - IP66/I	P67		
Air permeability		Torque			
25 l/h	M12	2Nm	ACC818291	4TBJ818291C0100	1
25 l/h	M16	2Nm	ACC818292	4TBJ818292C0100	1
40 l/h	M20	5Nm	ACC818293	4TBJ818293C0100	1







Installation	M12 x 1.5 / M16 x 1.5 / M20 x 1.5 thread
Mounting depth	0.5 – 3 mm with nut
Material	plastic, light gray
Protection rating	IP66 / IP67 (EN 60529)
Sealing	NBR seal
Filter	PTFE
nstallation	mandatory
Operating/storage temperature	-20 to +80°C (-4 to +176°F)
Certification	VDE, UL, EAC

Dimensions (mm)			
Туре	ACC818291	ACC818292	ACC818293
Order code	4TBJ818291C0100 M12	4TBJ818292C0100 M16	4TBJ818293C0100 M20
L	8	10	10
D	4 - 8	4 - 8	6 - 12
SW1	19	19	24
SW2	18	22	26

DD 084

Product	Туре	Order code	Pack
Drainage plug - IP66/IP67/IP69K			
	AC818294	4TBJ818294C0100	1







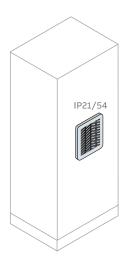




Torque	M12 x 1.5 / M16 x 1.5 / M20 x 1.5 thread
	·
Mounting depth	0.5 – 3 mm with nut
Material	plastic in accordance with UL94 V-0, dark gray, highly resistant to poor weather conditions and UV, compliant with the UL746C standard
Protection rating	IP66 / IP67 (EN 60529)
Sealing	NBR seal
Filter	PTFE
Installation	mandatory
Operating/storage temperature	-20 to +80°C (-4 to +176°F)
Certification	VDE, UL, EAC
Installation instruction	ns, drill a Ø 50 5+ mm hole in the lower section

of the enclosure and install the drainage system with a nut. Important: the hole must have no burred edges and the seal must be fitted on the exterior side of the enclosure.

Accessories - Ventilation kits





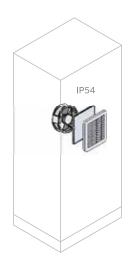
Temperature management

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			Dimensions (mm)				Package/
Without filter cm²	With filter cm²	W	W		Туре	Order code	No. of pieces
Grille+air passag	e filter kit						
27	6	105	105	2 1/2 3	EN0105K		1/1
53	10	150	150	2 71 08	EN0150K		1/1
121	22	204	204	2 72 08	EN0204K		1/1
225	32	250	250	2 72 08	EN0250K		1/1
317	55	325	325	2 42 08	EN0325K		1/1

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 surfac	e for ventilation	Dimer (mm)	nsions			'	Package/
Consumption 50/60Hz (W)	Capacity 50/60Hz (m³/h)	W	W		Туре	Order code	No. of pieces
Ventilation filte	er with IP54 230V ~	fan					
10/8	23/30	105	105	2U Z 3	EN1105K		1/1
20/19	57/61	150	150	2 42 08	EN1150K		1/1
17/15	120/135	204	204	2 U 23	EN1204K		1/1
29/29	240/270	250	250	2 1/2 3	EN1250K		1/1
67/87	520/580	325	325		EN2325K		1/1
Ventilation filte	er with IP 54 1150V	- fan					
9/7	23/30	105	105	2U 2 3	EN2105K		1/1
20/18	57/61	150	150	2 1/2 3	EN2150K		1/1
17/15	120/135	200	200	2 42 08	EN2204K		1/1
30/30	240/270	250	250	2 42 08	EN2250K		1/1
50/64	520/580	325	325		EN3325K		1/1

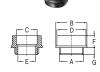
PG	D1	Drill	D3	D5	L5	S1	S2	Туре	Order code	Pack
	(mm)	diamet Ø (mm)	er							
11	18.6	19	11	24	8	19	22	APACC851038	4TBO851038C0100	50
13.5	20.4	21	13	26.5	9	21	24	APACC851042	4TBO851042C0100	50
16	22.5	23	16	29.5	10	23	27	APACC851046	4TBO851046C0100	50
21	28.3	29	21	35	11	30	32	APACC851051	4TBO851051C0100	25
29	37	38	27.5	45	11	41	42	APACC851056	4TBO851056C0100	10
36	47	48	34	57	13	50	53	APACC851060	4TBO851060C0100	5
42	54	55	42	64	12.5	55	60	APACC851062	4TBO851062C0100	5

Nuts - Polycari	bonate (gray)	PG	D	Н	Type	Order code	Pack
		11	25	5	APACC851075	4TBO851075C0100	50
	D	13.5	27.5	5.5	APACC851076	4TBO851076C0100	50
	Н	16	31	6	APACC851077	4TBO851077C0100	50

Plugs (black)		Α	В	С	Туре	Order code	Pack
	PG16	26	11	APACC851064	4TBO851064C0100	50	
		PG21	32	11.5	APACC851065	4TBO851065C0100	50
		PG29	41	13	APACC851066	4TBO851066C0100	50
	c	PG36	51	12.5	APACC851068	4TBO851068C0100	50

Pipe ent	Pipe entries - Non-threaded (black)											
Pipe Ø	Α	В	С	D	E	F	G	Type Order code	Pack			
5 / 8"	PG-16	26	17	21	14.1	15	9	APACC851069 4TBO851069C01	00 20			
3 / 4"	PG-16	26	20	24	16	21	9	APACC851070 4TBO851070C010	0 20			

Pipe entri	ies - Non-threade	ed (black)								'	
		Pipe A	В	С	D	E	F	G	Туре	Order code	Pack
		5/8" PG-16	26	17	21	14.1	15	9	FOB61TUB3	4TBB600933C0200	25
		3 / 4" PG-16	26	20	24	16	21	9	FOB61TUB4	4TBB600934C0200	25



Accessories - General Accessories

	Cable Ø max.	PG	Drill di- ameter Ø (mm)	Color	Туре	Order code	Pack
	18	16	23	gray	FORJRPG16	4TBR610130C0200	25
5 100.	24	21	29	gray	FORJRPG21	4TBR610132C0200	25
, L-A-11,	32	29	38	gray	FORJRPG29	4TBR610133C0200	25
x	49	42	54	gray	APACC852191	4TBO852191C0100	1
	Cable Ø min.	max.	Drill di- ameter Ø (mm)	Color	Туре	Order code	Pack
C113	12	48	55	gray	APACC851096	4TBO851096C0100	20
	12	30	35	gray	APACC851097	4TBO851097C0100	20
	12	36	45	gray	APACC851098	4TBO851098C0100	20
100	22	66	75	gray	APACC851099	4TBO851099C0100	10
X	22	58	65	gray	APACC851100	4TBO851100C0100	10
Railstellen					Туре	Order code	Pack
=	- DIN rail	cross-se	ction 6.5x9 g kA (10 mse		ACC610022	4TBR610022C0200	18
an anni	- I = 160 <i>A</i> - DIN rail	cross-sed Mountin	ction 12x5 g kA (10 msec	. :)	ACC610020	4TBR610020C0200	12
	- Protect	ive scree	n for 61002	0	ACC610021	4TBR610021C0200	12

ACC610017

ACC610018

4TBC610017C0100 10

4TBC610018C0100 1

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

- Busbars 12x5

max. 200 mm
- DIN rail mounting

screws

- Length $1.2\,\text{m}$ + $50\,\text{jumpers}$ and $50\,$

- To be combined with 610018 supports

- Busbar support for four 12 x 5 busbars

- To be combined with the busbars

- Maximum span: 200 mm

- Max. spacing of supports:

Busbar/cable terminals			Type	Order code	Pacl				
i e	With 4 bypasses	35-70 mm² + 4 bypasses (16 mm²)							
	- For Al/Cu cable - Max. thickness: 12 mm	2 cables	ACC779221	4TBC779221C0100	4				
	- Max. trickness: 12 min	3 cables	ACC779222	4TBC779222C0100	4				
Ĭ.		90-150 mm² + 4 bypa:	sses (25 mm²)						
		90-150 mm ² + 4 bypas 2 cables	asses (25 mm²) ACC779218	4TBC779218C0100	4				

	Type	Order code	Pack
For 35-70 mm² terminal	,	,	
	ACC779224	4TBC779224C0100	4
For 95-150 mm² terminal			
	ACC779223	4TBC779223C0100	4
		For 35-70 mm² terminal ACC779224 For 95-150 mm² terminal	For 35-70 mm² terminal ACC779224 4TBC779224C0100 For 95-150 mm² terminal

Connection busbars		Туре	Order code	Pack
	- Phase - black - 6x10mm² and 2x16 mm² - Interlocking on flat bar 12 x2mm	FORSTTL	4TBR610185C0200	4
	- Ground - green - 6x 10mm² and 2x 16 mm² - Interlocking on flat bar 12 x 2 mm	FORSTTPE	4TBR610186C0200	4
	- Neutral - blue - 6x10mm² and 2x16 mm² - Interlocking on flat bar 12 x 2 mm	FORSTTN	4TBR610187C0200	4
ARRAMAN ARRANA	- 14x16 mm² - DIN rail mounting	ACC610065	4TBC610065C0100	4
	- Ground busbar - 12 x 4 with 3 terminals - Screw fixing	APACC851021	4TBO851021C0100	4

Busbar/bus	bar terminals							
		Main busbar	Secondary busbars	Min. total thickness	Clamped bars	Type	Order code	Pack
		20	15 - 20	5 - 4	26 - 24	APACC851120	4TBO851120C0100	10
漁		30	15 - 20 - 30	7 - 6 - 5	28 - 27 - 26	APACC851129	4TBO851129C0100	10

Busbar/busbar terminals						
	Cable max. Ø (mm²)	Busbar thickness (mm)	Busbar width (mm)	Type	Order code	Pack
	10 to 50	5 to 6	30	APACC851117	4TBO851117C0100	10
	4 to 35	3 to 5	15	APACC851118	4TBO851118C0100	10

			Attachment	Ground clamp	Н	Туре	Order code	Pack
	,	max. terminal connection: - Single tin pressure element: 4x4mm² -	screw-fit	none	46	ACC779212	4TBC779212C0100	5
			on DIN rail	none	48	ACC779213	4TBC779213C0100	5
€8	H & ↓		screw-fit	included	46	ACC779214	4TBC779214C0100	5
		- Double tin pressure element: To be ordered separately	on DIN rail	included	48	ACC779215	4TBC779215C0100	5
144	-36 + 36 - 30 - 30 - 30 - 30 - 30 - 30 - 30 -	36 ← 500						
	485		screw-fit	none	48	ACC890705	4TBC890705C0100	5

Double pressure element		Туре	Order code	Pack
	Set of 4 securing nuts	ACC779216	4TBC779216C0100	1
			,	
Insulation cap	-	Туре	Order code	Pack
			4TDC000704C0100	
	Made of rubber	ACC890704	4TBC890704C0100	20

25-35 mm² terminal blocks		Туре	Order code	Pack
	 Without insulation caps 1 securing nut Al/Cu cable 	ACC779201	4TBC779201C0100	10
	- 2 securing nuts - Al/Cu cable	ACC779202	4TBC779202C0100	10
48 0 0 0 0 0 36	With insulation caps2 securing nutsAl/Cu cable	ACC779204	4TBC779204C0100	10
58	With insulation caps and attachment2 securing nutsAl/Cu cable	ACC779205	4TBC779205C0100	10

Insulation cap		Туре	Order code	Pack
	61	ACC890838	4TBC890838C0100	10

Double pressure element					Туре	Order code	Pack
	Set of 4	securing	nuts	'	ACC779203	4TBC779203C0100	10
				'		,	
Cable clamps for overhead lines	Cross-		B	 T	Type	Order code	Pack

	Cable clamps to	r overhead lines	Cross- section	A	В	С	Туре	Order code	Pack
		10 mm ²	14	24	4.5	KIM601227	2CDB710029R0000	100	
		A	16 mm²	22	29	5.5	KIM601228	2CDB710019R0000) 50
			35 mm ²	25	35	7.5	KIM601229	2CDB710022R0000) 25
			50 mm ²	28	43.5	9.0	KIM601230	2CDB710031R0000	25
		→Cr							

Document pocket		Type	Order code	Pack
	DIN A4, 325 B x 180 H, self-adhesive - gray		'	
		PS811516	4TBC811516C0100	1
	DIN A5, 155B x 225H, self-adhesive - transparent			
		PS832000	4TBP832000C0100	1

ACC811096	4TBC811096C0100	1
	ACC811096	ACC811096 4TBC811096C0100





Accessories - General Accessories

Module covers		Туре	Order code	Pack
	12 modules, sectionable by 1/2 module	'	'	
		ZA3P5	4TBR610142C0200	5
and the same				

Handle 🛮	Туре	Order code	Pacl
	Height 50 mm, with reinforcement molding + Vyncolite screws		
	APACC851244	4TBO851244C0100	1
M6 25 47			
120			

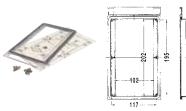
IP54 windows 🗆			Туре	Order code	Pack
		Includes a template and fixings			
Fig	-Ver - No-	77 x 60 mm - 2 mod.	ACCWD2M	4TBO861395C0100	1
	240	77 x 96 mm - 4 mod.	ACCWD4M	4TBO861396C0100	1
The state of the s	175 189	77 x 130 mm - 6 mod.	ACCWD6M	4TBO861397C0100	1
	226 170.5	77 x 163 mm - 8 mod.	ACCWD8M	4TBO861398C0100	1
	189	Screw-fit 🗆 IP67	AP9X7WD	4TBO866001C0100	1

(f) U types 3, 3R, 4, 4X, 12 and 13



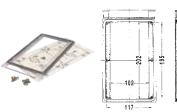


With hinges and seal 🗆 IP55		
77 x 60 mm - 2 mod.	APACC890837	4TBO890837C0100 1



Screw-fit 🗆 IP67, with label holders			
	AP8X4WDL	4TBO866002C0100	1

(1) types 3, 3R, 4, 4X, 12 and 13



Screw-fit 🛮 IP67, without label holders		
	AP8X4WD	4TBO866003C0100 1

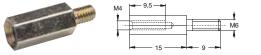
(§) types 3, 3R, 4, 4X, 12 and 13

M4 type rise pill	lars	L (mm)	ØΑ	ØB	Туре	Order code	Pack
		10	M4	M4	APACC890800	4TBO890800C0100	50
		15	M4	M4	APACC890801	4TBO890801C0100	50
OB OA	20	M4	M4	APACC890802	4TBO890802C0100	50	
	25	M4	M4	APACC890803	4TBO890803C0100	50	
	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	Type	Order code	Pack
	15	M6-M6	ACC811337	4TBC811337C0100	100
20	20	M6-M6	ACC811338	4TBC811338C0100	100
	25 30 35	M6-M6	ACC811454	4TBC811454R0100	100
		M6-M6	ACC811339	4TBC811339C0100	100
		M6-M6	ACC811455	4TBC811455R0100	100
L 9 mg	45	M6-M6	PS811456	4TBP811456R0100	100
	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 (mm)	Ø	Туре	Order code	Pack
	60	M6-M6	ACC81	1342 4TBC811342C	0100 100
	30	M6-M6	ACC81	1343 4TBC811343C	0100 100
10-10-12-12-12-12-12-12-12-12-12-12-12-12-12-					

М4-М6 Туре		Туре	Order code	Pack
15	M6-M4	ACC811336	4TBC811336C0100	100



Hex.	M4 15 13.5 8.5 M4 11	KIM601223	2CDB601223R0000 100
TIOA.			LCDDOOTLLSMOOOD 100
10	M5 18 17.0 10 M5 14	KIM601224	4TBS601224C0200 100
1 = = = = = = = = = = = = = = = = = = =	M6 22.3 20.4 9 M6 17	KIM601225N	4TBC601225C0100 100
13 10	M8 25.3 24.2 10 M8 20	KIM601226	2CDB601226R0000 50

Locks with semi-cylin	ndrical profile M4 Type			
Standard: D = 40 mm -	- L = 30.5 mm	Туре	Order code	Pack
	() With 2 keys V2432-E	PS832030	4TBP832030C0100	1
	() With 2 keys 1242-E	PS832031	4TBP832031C0100	1
	() With 2 keys 455-E	PS832465	4TBP832465C0100	1
	() With 2 keys 405-E	PS832466	4TBP832466R0100	1
	With 1 square key, 8 mm	PS832032	4TBP832032C0100	1
To 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 Pacl
	For security lock no. V2432E	PS832022	4TBP832022C0100 2
	For security lock, 8 mm square	PS832026	4TBP832026C0100 1
	For security lock, 8 mm triangular	PS832027	4TBP832027C0100 1
S 22 A	For security lock, 11 mm triangular	PS832072	4TBP832072C0100 1
~	For security lock, double-bit 3 mm	PS832028	4TBP832028C0100 1

Screws		Type	Order code	Pack
	M6 flange screw			
		ACC811483	4TBC811483C0100	100
12 M6				
N T 014 T	PVC M6 screw for c	over plate (sealab	le)	
		ACC811451	4TBC811451R0100	100
₩6 →				

Brackets	L	Α	С	E	Туре	Order code	Pack
-1C	40	24	9.5	=	ACC811478	4TBC811478R0300	100
4-11-9	80	64	9.5	-	ACC811479	4TBC811479R0300	100
L 9 8							
C — A — eq	120	64	49.5	41.5	ACC811480	4TBC811480C0100	100
1							

Aluminum profiles	Type Order code	e Pack
<u></u>	Profile length = 3 m	
10.5	ACC811417 4TBC81141	7C0100 1
25		

Galvanized profiles			Туре	Order code	Pac
	6 + 8	C profile 15x8x1 Length: 3m	APACC890848	4TBO890848C0100	1
	7.3	DIN profile 35 x 7.3 x 1 Length: 3m	APACC890847	4TBO890847C0100	1
	15 + 30	C profile 30x15x1.5 Length: 3m	ACC811619	4TBC811619C0100	1
	- 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
000		Cu profile 12 x 5 with M5 tapped holes Length: 3m	ACC811263	4TBC811263C0100	1
00000		Jumpers + screws M5 x 13 Max. 2 x 10 mm² per jumper	APACC851123	4TBO851123C0100	10

Metal nuts		Туре	Order code	Pack
	М6	ACC811435	4TBC811435C0100	100
19 + M				
	M4	ACC811438	4TBC811438C0100	100
18.5 M				
	М6	ACC811446	4TBC811446C0100	100
₩ M M M M M M M M M M M M M M M M M M M				
	M8	ACC811447	4TBC811447C0100	100

0

Slide nuts		Type	Order code	Pacl
	For perforated mounting plate			
	M4 bolt	AR831328	4TBA831328C0100	50
	M5 bolt	AR831329	4TBA831329C0100	50
	M6 bolt	AR831330	4TBA831330C0100	50
Rise pillars		Туре	Order code	Pac
0	For mounting on symmetrical DIN rai	l, height: 21 mm		
		ACC610312	4TBC610312C0100	10
Mounting equipment		Туре	Order code	Pac
	Slide + M4 screw			
CE CO		APACC890835	4TBO890835C0100	10
	Slide + washer + M4 screw			
		APACC890836	4TBO890836C0100	10
	M5 screw for meter L = 21 mm			
		APACC890844	4TBO890844C0100	20
1 Dunamu	M 4 x 8 screw			
· ·		APACC890849	4TBO890849C0100	50
	M4 slider			
		APACC890841	4TBO890841C0100	50
_	MAurahan			
	M4 washer	APACC890850	4TBO890850C0100	20
			112000000000000000000000000000000000000	
	Coupling set			
		APACC890840	4TBO890840C0100	20

Accessories - General Accessories

Profiles	Profile length	Enclosure width	Type	Order code	Pack
	Type AB (C 15 x 8)				
	100 mm	150	APACC890809	4TBO890809C0100	10
	135 mm	185	APACC890812	4TBO890812C0100	10
(5	250 mm	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
\$ 1,500 miles 10 10 10 10 10 10 10 10 10 10 10 10 10	200mm	250	APACC890816	4TBO890816C0100	10
AB	250mm	300	APACC890820	4TBO890820C0100	10
	276mm	300	APACC890819	4TBO890819C0100	10
<u> </u>	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

Notes

07

Pedestals

Index

Pedestals	
EH	
Cabinets for underground cable distribution and all types	
of outdoor industrial applications	130
EH1-4	
Overview insulated pedestals	131
EH1	
Small pedestal	132
EH2	
Column cabinets	133
EH3	
DIN size pedestals	136
EH3	
Accessories	141
EH3	
system parts	144
EH3 / GD	
DIN size pedestals deep version	148
EH3 / GD	
Accessories	150
EH4	
Column cabinets	151
Pedestals	
Dimensional	153
Pedestals technical details	
Power dissipation values	163

EH - Cabinets for underground cable distribution and all types of outdoor industrial applications



A wide range of pedestals has completed our comprehensive range of nonmetallic enclosures for several years. In power distribution application pedestals enable the connection of underground cables and the distribution to several consumers within the cabinets. Besides there are lots of applications that require reliable outdoor housings like Telecommunication or Traffic signalling.

Applications

- Energy distribution
- · Cable television
- Telecommunication and electronics
- · Traffic signalling and public lighting
- Temporary service for construction sites
- Camping sites and market places
- Marinas
- Water treatment
- Sub-stations
- 48 cm (19") racking systems

Standard: EN / IEC 61439-5

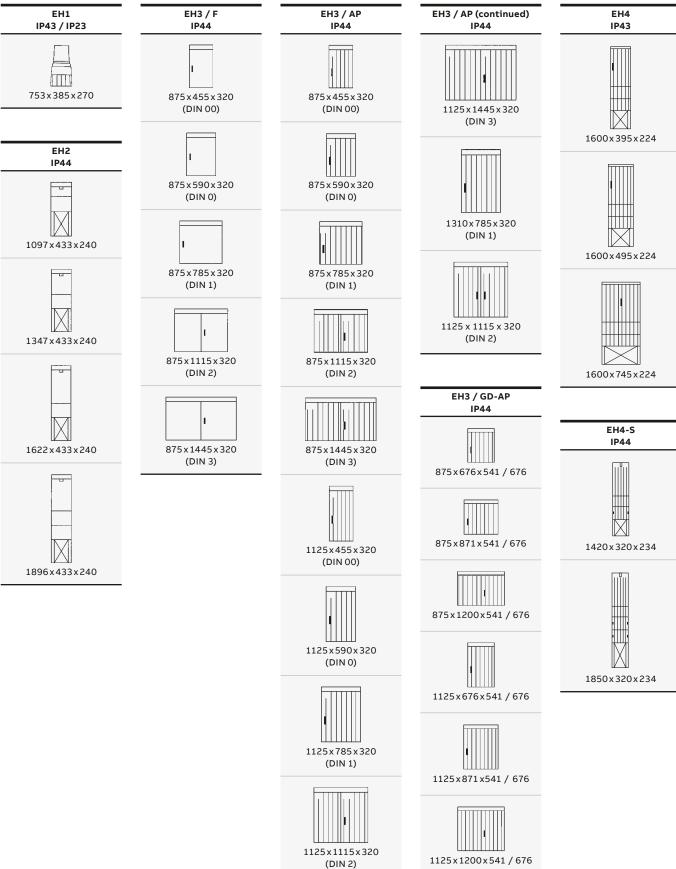
Specifications

- Cabinets to be mounted on a plinth.
- The base is partly buried into the ground.
- For some types the base is an integrated part of the pedestals.
- As with all our polyester boxes and cabinets, the pedestal feature high protection and total insulation to IEC 61439-5.
- Degree of protection is at least IP43.
- Very high mechanical impact strength IK10 (EN/IEC 62262) and a high thermal insulation which results in reduced temperature variations within the enclosure.
- All cabinets are corrosion resistant and UV stabilised for outdoor applications.





EH1-4 - Overview insulated pedestals



HxDxW (mm)

EH1 - Small pedestal



EH1C14VH

Applications

- · Cable television
- Gas distribution
- Telecommunication (surface connections)
- · Camping sides

Standard: EN / IEC 62208

Specifications

- · Small outdoor enclosure with integrated base.
- Hood grey colour RAL 7035:
 - ventilated version in polyester or thermoplastic engineering polymer,
 - non ventilated version in hot moulded, glass fibre reinforced polyester,
 - blackened triangular zamac locking screws, vandalproof and for all seasons.
- - Degrees of protection:
 - IP43 for the non ventilated hoods,
- IP23 for the ventilated hoods.
- According to IEC 60529:
 - protection degree against external mechanical impacts according to EN/IEC 62262.
- IK09 polyester hood
- IK10 thermoplastic hood
- Rated insulation voltage Ui 690V
- Base in high density polyethylene (HDPE) RAL 9005
- Base resists a ground temperature of -50°C
- The upper part of the base serves as a mounting plate and is provided with three slots for fixation points.
- Moulded-in indication of burial depth.
- Option: 2432E lock.
- Easy to install by one person only (weight: 4.5 kg).
- Dimensions: 753×385×270 (H×W×D in mm)

EH1 - Column cabinet

Туре	Туре	Order code	Pack
(H x W x D) 753 x 385 x 270 mm		'	
Ventilated	EH1C14VHNA	4TBE841037C0100	1
Non-ventilated	EH1C14NH	4TBE841038C0100	1
Accessories	'	'	
The protective hood may be opened by an 8 mm triangular key.	PS832027	4TBP832027C0100	1
Ventilated protective hood	EH1AEEV3	4TBE841039N0100	1
Non-ventilated protective hood	EH1AEEN4	4TBE841040N0100	1
Closure for older models	EH1AEEEI	4TBE841041N0100	1

Pedestals

EH2 - Column cabinets



EH2 - Distribution columns

Applications

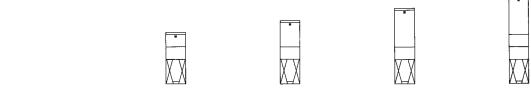
- Energy distribution
- Cable television
- Traffic signage and public lighting
- · Camp sites and marketplaces
- · Gas stations
- · Pump applications

Standard: EN / IEC 61439-5

Specifications

- The lower section has a polyester plate closure.
- RAL 7035 dyed in the mass gray color.
- IP44 protection rating in accordance with EN/IEC 60529.
- Total insulation 🗆.
- IK10 protection rating against external mechanical impacts in accordance with EN/IEC 62262.
- Corrosion-resistant.
- UV-stable for exterior installation, improved UV resistance thanks to its special coating.
- Resistant to temperatures of between -35°C and +80°C.
- Temporary temperature increases cause no damage.
- The semi-cylindrical locks are built in to an integral handle, protected by a plastic anti-vandal cover.
- The front section comprises removable cases.
- The mounting holes for receiving M6 threaded inserts located on the rear panel allow direct access for installing sets of busbars, frames or mounting plates.
- The rear and base are made from a single piece.
- The lower section of the column provides a stable mounting into the ground
- The hinged hood has an opening angle of 90°, providing easy access.

EH2 - Column cabinets



	Type	EH2-NA	EH2-NB	EH2-NC	EH2-ND
'	HxWxD	1097×433×240	1347×433×240	1622x433x240	1896x433x240
Standard	Туре	EH2C25CH	EH2C35CH	EH2C45CH	EH2C55CH
	Order code	4TBE842072C0100	4TBE842073C0100	4TBE842074C0100	4TBE842075N0100
Mounting plate	HxWxD	200x395x5	450x395x5	700x395x5	700x395x5
Daniel a accorded	Туре	EH2M25EH	EH2M35EH	EH2M45EH	EH2M45EH
Pertinax with fixing bolts					

EH2 - Accessories

Product		Туре	Order code	Pack
Locks - profile half cylin	der ty	/pe		
46	_	With 2 keys , V2432-E		
	•	EH3AEECI	4TBE843001C0100	1
		spare keys for	EH3AEECI	
		PS832022	4TBP832022C0100	2
		With 1 square	key, 8 mm	
	0	EH3AEEQHN	4TBE843002C0100	1
39.5	(With an 8mm	triangular key	
		EH3AEETHN	4TBE843003C0100	1
		With 2 keys A	134	
	1	EH3UAECI	4TBE843248C0100	1
7 20		Replacement ke	ys upon request.	

Product	Type	Order code	Pack			
Inserts						
	M6 x 11 th	readed inserts				
	VJ890846	4TBO890846C0100	100			
	Punch for	Punch for inserting M6 threaded barrel				
	DW 1	or cable release clamp ered separately)				
	APPL	4TBO852004C0100	1			
0.00						

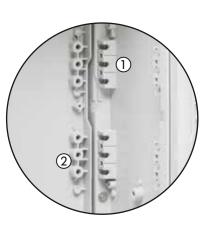
Notes

EH3 - DIN size pedestals

Water and dust accumulation prevented by a sloped roof

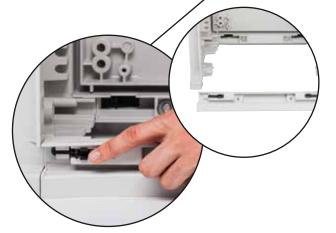


Fixation of bus bars with M8 hexagonal screws in the side wall, to maximize the width and space for electrical devices ①. Fixation of mounting plate with M8 press-in nuts in the back wall to maximize depth for electrical devices ②.

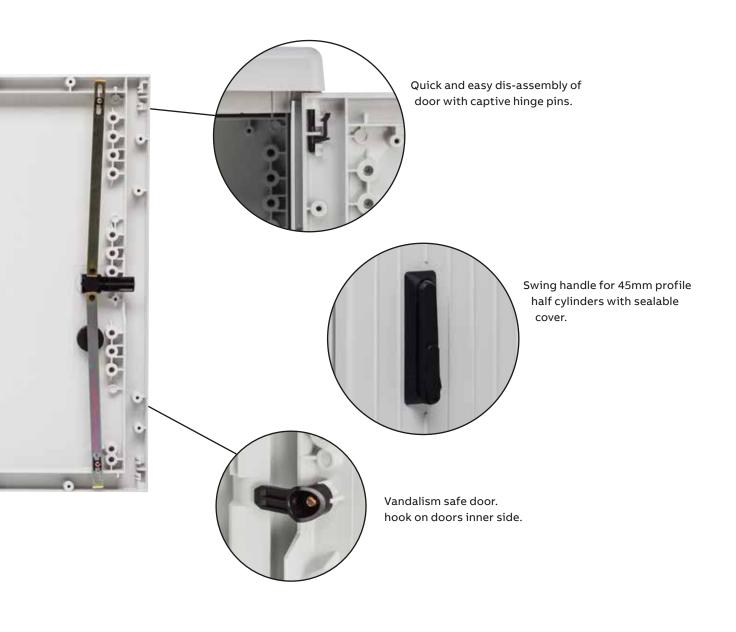


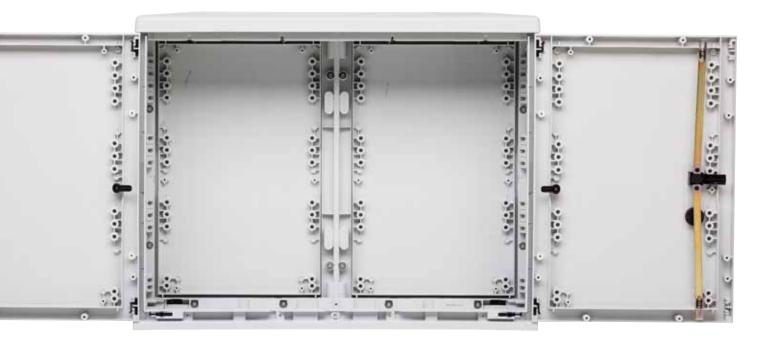


Convenient removal of bottom profile for easy access by tool less slider operation.



Easy fixation of side- /back-wall and roof by use of self tapping screws.





EH3 - DIN size pedestals



EH3 - DIN size pedestals

Applications

- Energy distribution
- · Gray water processing
- · Cable television
- · Solar energy applications
- · Camp sites and marketplaces
- Traffic signage and public lighting

Standard: EN / IEC 61439-5

Specifications

- · Cabinets made of hot moulded, glass fibre reinforced polyester.
- Dyed in mass RAL 7035 light grey.
- Delivered in kit-form or factory assembled.
- Protection degree IP44 according to EN 60529, IEC 60529.
- · Total insulation.
- Protection degree IK10 against external impacts according to EN/IEC 62262.
- Corrosion resistant.
- UV stabilized for outdoor applications, coated cabinets for increased resistance and aesthetics against UV-corrosion available.
- Suitable for use in environments from -35° C to +80° C. Temporary exceeding temperatures will not be harmful.
- The open door can be manually unhinged to allow free access for maintenance. Door opening angle exceeds 180°.
- Studs are moulded in the rear panel which can receive M8 inserts to allow direct mounting at busbars, a frame or a mounting plare for components.
- Fixation points at the side panel are foreseen to mount busbars.
- Supplied with open bottom.
- To be mounted on a basement according to DIN 43629 standard dimensions between the fixation points.
- The rainhood shape prevents water stagnation on the roof.
- Removable bottom profile for easy cable access without tools.

EH3/F - flat surface pedestals

- 5 different widths; all sizes have the same height and depth.
- The swing handle is designed to receive a half profile cylindric lock.

EH3/AP - anti poster pedestals

- 5 sizes with 2 different hight; all sizes have the same height and depth.
- 3-point closure system, exposed handle-actuated.
- The robust handle leaves more space inside the cabinet and is compatible with a profiled semi-cylindrical lock.
- The doors and rear panel are profiled, which prevents the affixing of posters.

EH3 - DIN size pedestals

'		DIN 00	DIN 0	DIN 1	DIN 2	
Type EH3 / F (H=875) IP44			ı	l	1	
	Type	EH3 / F - 00	EH3 / F - 0	EH3 / F - 1	EH3 / F - 2	
	HxWxD	875 x 455 x 320	875x590x320	875 x 785 x 320	875 x 1115 x 320	
Factory-assembled	Туре	EH3C8XC1	EH3C80S1	EH3C81S1	EH3C82S1	
	Order code	4TBE843670C0100	4TBE843158C0100	4TBE843160C0100	4TBE843162C0100	
Type EH3 / AP (H=875) IP44						
	Туре	EH3 / AP - 00	EH3 / AP - 0	EH3 / AP - 1	EH3 / AP - 2	EH3 / AP - 3
	HxWxD	875×455×320	875×590×320	875×785×320	875×1115×320	875×1445×320
Factory-assembled	Type	EH3C8XC2	EH3C80S2	EH3C81S2	EH3C82S2	EH3C83S2
-	Order code	4TBE843672C0100	4TBE843176C0100	4TBE843177C0100	4TBE843178C0100	4TBE843179C0100
Assembled, with UV coating	Type	EH3U8XC2	EH3U80S2	EH3C91S2	EH3C92S2	EH3C93S2
	Order code	4TBE843673N0100	4TBE843480C2100	4TBE843181C0100	4TBE843182C0100	4TBE843183C0100
Type EH3 / AP (H=1125) IP44		1				
	Туре	EH3 / AP - 200	EH3 / AP - 20	EH3 / AP - 21	EH3 / AP - 22	EH3 / AP - 23
	HxWxD	1125×455×320	1125×590×320	1125×785×320	1125×1115×320	1125×1445×320
Factory-assembled	Туре	EH3C9XC2	EH3C90S2	EH3C91S2	EH3C92S2	EH3C93S2
	Order code	4TBE843676C0100	4TBE843180C0100	4TBE843181C0100	4TBE843182C0100	4TBE843183C0100
Assembled, with UV coating	Туре	EH3U9XC2	EH3U90S2	EH3U91S2	EH3U92S2	EH3U93S2
_	Order code	4TBE843677N0100	4TBE843484N2100	4TBE843485N2100	4TBE843486N2100	4TBE843487C2100
Assembled, with UV	Туре	EHP3200DAG	EHP320DAG	EHP321DAG	EHP322DAG	EHP323DAG
and anti-graffiti coating	Order code	4TBE843731C0100	4TBE843732C0100	4TBE843733C0100	4TBE843734C0100	4TBE843735C0100

EH3 - DIN size pedestals

EH3 / DC - DIN 2 Pedestals with separate compartments

Product			Туре	Order code	Pack
EH3 / DC - 2		HxDxW			
	Assembled with 2 double-closure handles	1125×1115×320	EH3C92D2	4TBE843576C0100	
	Pertinax mounting plate with mounting bolts	915 x 445 x 5	EH3A95P5	4TBE843728C0100	
		915 x 445 x 10	EH3A95P10	4TBE843729C0100	
	2 mounting plates are required per cabinet				

EH3 DIN1 pedestals - Height 1310 mm

EH3 / AP 31 - DIN 1		HxDxW		
	Reactivate	1310x785x320	EH3C61C2	4TBE843689C0100
	Assembled with double-locking handle	1310×785×320	EH3C61D2	4TBE843692C0100
1(111111	Pertinax mounting plate with mounting bolts	1100x680x5	EH3M61EH	4TBE843693C0100

EH3 - Accessories

DIN bases

			DIN 00	DIN 0	DIN 1	DIN 2	DIN 3
		HxWxD	900x450x310	900x585x310	900x780x310	900x1110x310	900x1430x310
	Factory-	Туре	EH3BEXEH	EH3BE0EH	EH3BE1EH	EH3BE2EH	-
	assembled	Order code	4TBE843390N0100	4TBE843391N0100	4TBE843392N0100	4TBE843393C0100	
	Polyester base, supplied in kit	Туре	EH3SEXEI	EH3SE0EI	EH3SE1EI	EH3SE2EI	EH3SE3EI
	form, RAL 7035	Order code	4TBE843204R0100	4TBE843205R0100	4TBE843206R0100	4TBE843207R0100	4TBE843208R0100
	Base made from recycled material	Туре	EH3SEXEH	EH3SE0EH	EH3SE1EH	EH3SE2EH	EH3SE3EH
	Construction kit, Color similar to RAL 7035	Order code	4TBE842098R0100	4TBE842099R0100	4TBE842100R0100	4TBE842101R0100	4TBE843144R0100
ng pla	tes						
		HxWxD	665x350x5	665x485x5	665x680x5	705x1000x5	705x1340x5
٠,	Pertinax mounting plate	Туре	EH3M8XEH	EH3M80EH	EH3M81EH	EH3M82EH	EH3M83EI
	plate	Order code	4TBE843681C0100	4TBE843024C0100	4TBE843044C0100	4TBE843057C0100	4TBE843067C0100
		HxWxD	915x350x5	915x485x5	915x680x5	955x1000x5	955x1340x5
	Height 1125 mm	Туре	EH3M9XEH	EH3M90EH	EH3M91EH	EH3M92EH	EH3M93EI
		Order code	4TBE843682C0100	4TBE843070C0100	4TBE843071C0100	4TBE843072C0100	4TBE843256C0100
لمر		HxWxD			915x680x10	955 x 1000 x 10	955 x 1340 x 10
		Туре	-	-	EH3M91EHP	EH3M92EHP	EH3M93EH
		Order code			4TBE783325C0100	4TBE783326C0100	4TBE783327C0100
lates							
		HxWxD	427x285x3	562x285x3	757 x 285 x 3	1086x285x3	1416x285x3
10	Base plate 3 mm polyester	Туре	EH3PEXEI	EH3PE0EH	EH3PE1EH	EH3PE2EH	EH3PE3EH
<u>a</u>)	with securing screws	Order code	4TBE843683C0100	4TBE843300C0100	4TBE843301C0100	4TBE843302C0100	4TBE843303C0100

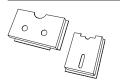
EH3 - Accessories

EH3 - Accessories

Product	Туре	Order code	Pack
Locks with profile half cylind	er		
(1)	With 2 keys , \	/2432-E	
	EH3AEECI	4TBE843001C0100	1
	Spare keys fo	r EH3AEECI	
No.	PS832022	4TBP832022C0100	2
0	With 1 square	key, 8 mm	
39.5	EH3AEEQH	4TBE843002C0100	1
	With an 8 mm	triangular key	
	EH3AEETH	4TBE843003C0100	1
	With 2 keys A	434	
	EH3UAECI	4TBE843248C0100	1
30	Spare keys upor	request.	

Product	Туре	Order code	Pack
Handle			
	Handle for loc profile half cy		
	EH3EEESH	4TBE843000C0100	1
	Spare part		

Diagram holder



Double closure handle



For two locks with profile half cylinder

EH3AEEDH 4TBE783042C0100 1

Spare part (Note: for after-market installation, an operation is required on the door mechanism).

IP44 ventilation grille



Set of 2 pieces

PS832019 4TBP832019C0100 1

Suitable for a ventilation opening Includes 2 grilles and 4 nylon nails. Total insulation. RAL 7035



Threaded insert



M8 threaded insert
Dodge-type for rear wall and door.

APTIM4 4TBO851026C0100 100

EH3 - Accessories

EH3 - Accessories

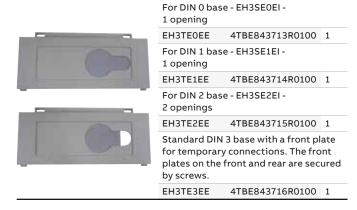
Product

Front plate with opening for temporary connections on DIN b	oase
May be used with DIN -00 to -2 bases in RAL 7035 color (EH3SE	XEI-
EH3SE2EI). This front plate is not standard and must be ordered	ed in
addition. The standard closed front plate may be used if it is no	ot
necessary for temporary connections. The DIN 3 base is standard	ard with
a front plate for temporary connections. The front plates on th	e front and
rear are secured by screws.	

Туре

Order code

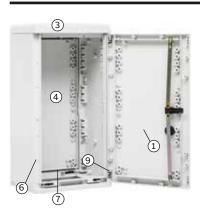
Pack



Product	Туре	Order code	Pack
Door locking			
	hand swingi drilling 2 hol	lled on left-hand or rig ng doors. Mounting by es in the interior profi unting parts.	,
•	EH3AEEEZ	4TBE843007C0100	1
	·		
Screws (replacement parts	:)		
	Clip-in butto Hilo 5.8 x 16		
	EH3AEEEN	4TBE843556C0100	1
	Clip-in butto Hilo 5.8 x 22		
	EH30EEEG	4TBE890278C0100	1
	·		
Mounting bolts for mounti	ng plates (repla	cement parts)	
la.	DIN 00-0-1		
	EH3AE0EI	4TBE843566C0100	1
~~~	DIN 2-3		
90 7	EH3AE2EI	4TBE843567C0100	1

EH3 - system parts

### EH3 / F (H = 875)



EH3 / F (H=875)		Туре		DIN 00	
① Door (with handle)         Type		EH3 / F (H=875)		EH3 / F - 00	
Order code         4TBE843639N0100           ② Door stop         Type         -         -           ③ Hood         Type         EH3AEXE5         EH3AEXE5           Order code         4TBE843634C0100         4TBE843634C0100           ④ Rear wall (you will require 2 for DIN2 and DIN3)         Type         EH3A8XE7         EH3A8XE7           Order code         4TBE843636C0100         4TBE843636C0100         4TBE843636C0100           ⑤ Center cross member         Type         -         -           Order code         Type         EH3A8EEN         EH3A8EEM           Order code         4TBE843592C0100         4TBE843591C0100           ⑦ Base profile         Type         EH3AEXEC         EH3AEXEC           Order code         4TBE843514C0100         4TBE843514C0100         4TBE843514C0100           ⑧ Cross member         Type         -         -         -           Order code         Type         EH3AEEEL         EH3AEEEL           Order code         4TBE843445C0100         4TBE843445C0100         4TBE843445C0100           ⑧ Set of accessories         Type         EH3AE0EG         EH3AE0EG				left-hand	right-hand
② Door stop         Type Order code         -           ③ Hood         Type EH3AEXE5 EH3AEXE5           Order code 4TBE843634C0100 4TBE843634C0100           ④ Rear wall (you will require 2 for DIN2 and DIN3)         Type EH3A8XE7 EH3A8XE7 EH3A8XE7           Order code 4TBE843636C0100 4TBE843636C0100         Type           ⑥ Side panel         Type EH3A8EEN EH3A8EEM Order code 4TBE843592C0100 4TBE843591C0100           ⑦ Base profile         Type EH3AEXEC EH3AEXEC EH3AEXEC Order code 4TBE843514C0100 4TBE843514C0100           ⑧ Cross member         Type Order code Type Order code 4TBE843445C0100 4TBE8434445C0100 4TBE843445C0100 4TBE8434445C0100 4TBE8434445C0100 4TBE8434445C0100 4TBE843445C0100 4TBE8434445C0100 4TBE843445C0100 4TBE8434445C0100 4TBE843445C0100 4TBE	1	Door (with handle)	Туре		EH3A8XC1
Set of accessories   Type   EH3AEXEC   EH3AEXEC			Order code		4TBE843639N0100
Hood	2	Door stop	Type	-	-
Order code         4TBE843634C0100         4TBE843634C0100           4 Rear wall (you will require 2 for DIN2 and DIN3)         Type         EH3A8XE7         EH3A8XE7           5 Center cross member         Type         -         -           6 Side panel         Type         EH3A8EEN         EH3A8EEM           6 Order code         4TBE843592C0100         4TBE843591C0100           7 Base profile         Type         EH3AEXEC         EH3AEXEC           0 Order code         4TBE843514C0100         4TBE843514C0100           8 Cross member         Type         -         -           0 Order code         Type         EH3AEEEL         EH3AEEEL           9 Set of hinges (you will require 2 for DIN2 and DIN3)         Type         EH3AEEEL         EH3AEEEL           9 Set of accessories         Type         EH3AEOEG         EH3AEOEG			Order code		
## Rear wall (you will require 2 for DIN2 and DIN3)    Center cross member	3	Hood	Type	EH3AEXE5	EH3AEXE5
DIN2 and DIN3  Order code   4TBE843636C0100   4TBE843636C0100			Order code	4TBE843634C0100	4TBE843634C0100
Image: Problem of the content of the conte	4	Rear wall (you will require 2 for	Type	EH3A8XE7	EH3A8XE7
Order code           Side panel         Type         EH3A8EEN         EH3A8EEM           Order code         4TBE843592C0100         4TBE843591C0100           Type         EH3AEXEC         EH3AEXEC           Order code         4TBE843514C0100         4TBE843514C0100           Cross member         Type         -         -           Order code         Order code         EH3AEEEL         EH3AEEEL           For DIN2 and DIN3)         Order code         4TBE843445C0100         4TBE843445C0100           Set of accessories         Type         EH3AE0EG         EH3AE0EG		DIN2 and DIN3)	Order code	4TBE843636C0100	4TBE843636C0100
Side panel         Type Order code         EH3A8EEN Order code         EH3A8EEM ATBE843591C0100           ⑦ Base profile         Type EH3AEXEC EH3AEXEC EH3AEXEC Order code         EH3AEXEC ATBE843514C0100           ⑧ Cross member         Type Order code         Order code           ⑨ Set of hinges (you will require 2 for DIN2 and DIN3)         Type Order code ATBE8434445C0100         EH3AEEEL EH3AEEEL ATBE843445C0100           ⑨ Set of accessories         Type EH3AE0EG EH3AE0EG         EH3AE0EG	(5)	Center cross member	Type	-	-
Order code         4TBE843592C0100         4TBE843591C0100           Type         EH3AEXEC         EH3AEXEC           Order code         4TBE843514C0100         4TBE843514C0100           Type         -         -           Order code         -         -           Set of hinges (you will require 2 for DIN2 and DIN3)         Type         EH3AEEEL         EH3AEEEL           Set of accessories         Type         EH3AE0EG         EH3AE0EG			Order code		
Type         EH3AEXEC         EH3AEXEC           Order code         4TBE843514C0100         4TBE843514C0100           ® Cross member         Type         -         -           Order code         Type         EH3AEEEL         EH3AEEEL           for DIN2 and DIN3)         Order code         4TBE843445C0100         4TBE843445C0100           ® Set of accessories         Type         EH3AE0EG         EH3AE0EG	6	Side panel	Type	EH3A8EEN	EH3A8EEM
Order code         4TBE843514C0100         4TBE843514C0100           ® Cross member         Type Order code         - Order code           ® Set of hinges (you will require 2 for DIN2 and DIN3)         Type DIN2 and DIN3 Order code         EH3AEEEL H3AEEEL			Order code	4TBE843592C0100	4TBE843591C0100
B         Cross member         Type         -         -           Order code         Order code         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	7	Base profile	Type	EH3AEXEC	EH3AEXEC
Order code           Set of hinges (you will require 2 for DIN2 and DIN3)         Type         EH3AEEEL EH3AEEEL EH3AEEEL           ® Set of accessories         Type         EH3AE0EG         EH3AE0EG			Order code	4TBE843514C0100	4TBE843514C0100
Set of hinges (you will require 2 for DIN2 and DIN3)         Type         EH3AEEEL         EH3AEEEL           ® Set of accessories         Type         EH3AE0EG         EH3AE0EG	8	Cross member	Type	-	-
for DIN2 and DIN3) Order code 4TBE843445C0100 4TBE843445C0100  Set of accessories Type EH3AE0EG EH3AE0EG			Order code		
Set of accessories Type EH3AE0EG EH3AE0EG	9	Set of hinges (you will require 2	Type	EH3AEEEL	EH3AEEEL
7,		for DIN2 and DIN3)	Order code	4TBE843445C0100	4TBE843445C0100
Order code 4TBE843447N0100 4TBE843447N0100	10	Set of accessories	Туре	EH3AE0EG	EH3AE0EG
			Order code	4TBE843447N0100	4TBE843447N0100

	Type		DIN 00	
	EH3 / AP (H=875)			
			left-hand	right-hand
)	Door (with handle)	Туре		EH3A8XC2
		Order code		4TBE843640C0100
)	Door stop	Type	-	-
		Order code		
)	Hood	Туре	EH3AEXE5	EH3AEXE5
		Order code	4TBE843634C0100	4TBE843634C0100
)	Rear wall (you will require 2 for	Туре	EH3A8XE8	EH3A8XE8
	DIN2 and DIN3)	Order code	4TBE843637C0100	4TBE843637C0100
)	Center cross member	Туре	-	-
		Order code		
	Side panel	Туре	EH3A8EEN	EH3A8EEM
		Order code	4TBE843592C0100	4TBE843591C0100
)	Base profile	Туре	EH3AEXEC	EH3AEXEC
		Order code	4TBE843514C0100	4TBE843514C0100
9)	Cross member	Туре	-	-
		Order code		
)	Set of hinges (you will require 2	Туре	EH3AEEEL	EH3AEEEL
	for DIN2 and DIN3)	Order code	4TBE843445C0100	4TBE843445C0100
)	Set of accessories	Туре	EH3AE0EG	EH3AE0EG
		Order code	4TBE843447N0100	4TBE843447N0100

For polyester parts with anti-erosion UV coating, please contact us.

- ② Door stop
- 3 Hood
- ${\small \texttt{\P}} \; \mathsf{Rear} \, \mathsf{wall} \\$
- ⑤ Center cross member

- 6 Side panel
- ② Base profile
- ® Cross member
- 9 Set of hinges
- The set of accessories includes bolts, washers and nuts for polyester cabinet assembly.

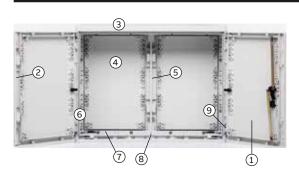
### EH3 - system parts

 DIN 0		DIN 1		DIN 2	
EH3 / F - 0		EH3 / F - 1		EH3 / F - 2	
left-hand	right-hand	left-hand	right-hand	left-hand	right-hand
	EH3A80E1		EH3A81SH	EH3A82EM	EH3A82CA
	4TBE843035N0100		4TBE843049N0100	4TBE843615C0100	4TBE843614C0100
-	-	-	-	EH3A8EER	EH3A8EER
				4TBE843605C0100	4TBE843605C0100
EH3AE0EJ	EH3AE0EJ	EH3AE1EH	EH3AE1EH	EH3AE2EJ	EH3AE2EJ
4TBE843599C0100	4TBE843599C0100	4TBE843600C0100	4TBE843600C0100	4TBE843601C0100	4TBE843601C0100
EH3A80EI	EH3A80EI	EH3A81EF	EH3A81EF	EH3A82EF	EH3A82EF
4TBE843519C0100	4TBE843519C0100	4TBE843521C0100	4TBE843521C0100	4TBE843607C0100	4TBE843607C0100
-	-	-	-	EH3A8EEQ	EH3A8EEQ
				4TBE843603C0100	4TBE843603C0100
EH3A8EEN	EH3A8EEM	EH3A8EEN	EH3A8EEM	EH3A8EEN	EH3A8EEM
4TBE843592C0100	4TBE843591C0100	4TBE843592C0100	4TBE843591C0100	4TBE843592C0100	4TBE843591C0100
EH3AE0EH	EH3AE0EH	EH3AE1EC	EH3AE1EC	EH3AE2EH	EH3AE2EH
4TBE843515C0100	4TBE843515C0100	4TBE843516C0100	4TBE843516C0100	4TBE843517C0100	4TBE843517C0100
-	-	-	-	-	-
EH3AEEEL	EH3AEEEL	EH3AEEEL	EH3AEEEL	EH3AEEEL	EH3AEEEL
4TBE843445C0100	4TBE843445C0100	4TBE843445C0100	4TBE843445C0100	4TBE843445C0100	4TBE843445C0100
EH3AE0EG	EH3AE0EG	EH3AE0EG	EH3AE0EG	EH3AE2EG	EH3AE2EG
4TBE843447N0100	4TBE843447N0100	4TBE843447N0100	4TBE843447N0100	4TBE843452C0100	4TBE843452C0100

DIN 0		DIN 1		DIN 2		DIN 3	
EH3 / AP - 0		EH3 / AP - 1		EH3 / AP - 2		EH3 / AP - 3	
left-hand	right-hand	left-hand	right-hand	left-hand	right-hand	left-hand	right-hand
	EH3A80S2		EH3A81S2	EH3A82C2	EH3A82S2	EH3A83CA	EH3A83SH
	4TBE843101C0100		4TBE843104C0100	4TBE843538N0100	4TBE843108C0100	4TBE843542N0100	4TBE843369C0100
-	-	-	-	EH3A8EER	EH3A8EER	EH3A8EER	EH3A8EER
				4TBE843605C0100	4TBE843605C0100	4TBE843605C0100	4TBE843605C0100
EH3AE0EJ	EH3AE0EJ	EH3AE1EH	EH3AE1EH	EH3AE2EJ	EH3AE2EJ	EH3AE3EJ	EH3AE3EJ
4TBE843599C0100	4TBE843599C0100	4TBE843600C0100	4TBE843600C0100	4TBE843601C0100	4TBE843601C0100	4TBE843602C0100	4TBE843602C0100
EH3A83EA	EH3A83EA	EH3A81EA	EH3A81EA	EH3A82EL	EH3A82EL	EH3A83EL	EH3A83EL
4TBE843531C0100	4TBE843531C0100	4TBE843533C0100	4TBE843533C0100	4TBE843609C0100	4TBE843609C0100	4TBE843610C0100	4TBE843610C0100
-	-	-	-	EH3A8EEQ	EH3A8EEQ	EH3A8EEQ	EH3A8EEQ
				4TBE843603C0100	4TBE843603C0100	4TBE843603C0100	4TBE843603C0100
EH3A8EEN	EH3A8EEM	EH3A8EEN	EH3A8EEM	EH3A8EEN	EH3A8EEM	EH3A8EEN	EH3A8EEM
4TBE843592C0100	4TBE843591C0100	4TBE843592C0100	4TBE843591C0100	4TBE843592C0100	4TBE843591C0100	4TBE843592C0100	4TBE843591C0100
EH3AE0EH	EH3AE0EH	EH3AE1EC	EH3AE1EC	EH3AE2EH	EH3AE2EH	EH3AE3EI	EH3AE3EI
4TBE843515C0100	4TBE843515C0100	4TBE843516C0100	4TBE843516C0100	4TBE843517C0100	4TBE843517C0100	4TBE843518C0100	4TBE843518C0100
-	-	-	-	-	-	-	-
EH3AEEEL							
4TBE843445C0100							
EH3AE0EG	EH3AE0EG	EH3AE0EG	EH3AE0EG	EH3AE2EG	EH3AE2EG	EH3AE2EG	EH3AE2EG
4TBE843447N0100	4TBE843447N0100	4TBE843447N0100	4TBE843447N0100	4TBE843452C0100	4TBE843452C0100	4TBE843452C0100	4TBE843452C0100

EH3 - system parts

### EH3 / AP (H = 1125)



	Туре		DIN 00	
	EH3 / AP (H = 1125)			
			left-hand	right-hand
1	Door (with handle)	Туре		EH3A9XC2
		Order code		4TBE843641C0100
2	Door stop	Туре	-	-
		Order code		
3	Hood	Туре	EH3AEXE5	EH3AEXE5
		Order code	4TBE843634C0100	4TBE843634C0100
4	Rear wall (you will require 2 for	Туре	EH3A9XE8	EH3A9XE8
	DIN2 and DIN3)	Order code	4TBE843638C0100	4TBE843638C0100
(5)	Center cross member	Туре	-	-
		Order code		
6	Side panel	Туре	EH3A9EEM	EH3A9EEL
		Order code	4TBE843594C0100	4TBE843593C0100
7	Base profile	Туре	EH3AEXEC	EH3AEXEC
		Order code	4TBE843514C0100	4TBE843514C0100
8	Cross member	Туре	-	-
		Order code		
9	Set of hinges (you will require 2	Туре	EH3AEEEL	EH3AEEEL
	for DIN2 and DIN3)	Order code	4TBE843445C0100	4TBE843445C0100
10	Set of accessories	Туре	EH3AE0EG	EH3AE0EG
		Order code	4TBE843447N0100	4TBE843447N0100

Note: Set of accessories including bolts, washers and nuts for mounting separate parts inside the cabinet.

- ② Door stop
- 3 Hood
- 4 Rear wall
- ⑤ Center cross member

- 6 Side panel
- ${\ensuremath{\overline{\mathcal D}}}$  Base profile
- ® Cross member
- 9 Set of hinges
- The set of accessories includes bolts, washers and nuts for polyester cabinet assembly.

### EH3 - system parts

DIN 0		DIN 1		DIN 2		DIN 3	
EH3 / AP - 20		EH3 / AP - 21		EH3 / AP - 22		EH3 / AP - 23	_
left-hand	right-hand	left-hand	right-hand	left-hand	right-hand	left-hand	right-hand
	EH3A90S1		EH3A91S1	EH3A92EJ	EH3A92CA	EH3A93EL	EH3A93CA
	4TBE843117N0100		4TBE843120C0100	4TBE843627C0100	4TBE843626C0100	4TBE843630C0100	4TBE843629C0100
-	-	-	-	EH3A9EEQ	EH3A9EEQ	EH3A9EEQ	EH3A9EEQ
				4TBE843606C0100	4TBE843606C0100	4TBE843606C0100	4TBE843606C0100
EH3AE0EJ	EH3AE0EJ	EH3AE1EH	EH3AE1EH	EH3AE2EJ	EH3AE2EJ	EH3AE3EJ	EH3AE3EJ
4TBE843599C0100	4TBE843599C0100	4TBE843600C0100	4TBE843600C0100	4TBE843601C0100	4TBE843601C0100	4TBE843602C0100	4TBE843602C0100
EH3A90E8	EH3A90E8	EH3A91EA	EH3A91EA	EH3A92EA	EH3A92EA	EH3A93EK	EH3A93EK
4TBE843543C0100	4TBE843543C0100	4TBE843545C0100	4TBE843545C0100	4TBE843611C0100	4TBE843611C0100	4TBE843612C0100	4TBE843612C0100
-	-	-	-	EH3A9EEP	EH3A9EEP	EH3A9EEP	EH3A9EEP
				4TBE843604C0100	4TBE843604C0100	4TBE843604C0100	4TBE843604C0100
EH3A9EEM	EH3A9EEL	EH3A9EEM	EH3A9EEL	EH3A9EEM	EH3A9EEL	EH3A9EEM	EH3A9EEL
4TBE843594C0100	4TBE843593C0100	4TBE843594C0100	4TBE843593C0100	4TBE843594C0100	4TBE843593C0100	4TBE843594C0100	4TBE843593C0100
EH3AE0EH	EH3AE0EH	EH3AE1EC	EH3AE1EC	EH3AE2EH	EH3AE2EH	EH3AE3EI	EH3AE3EI
4TBE843515C0100	4TBE843515C0100	4TBE843516C0100	4TBE843516C0100	4TBE843517C0100	4TBE843517C0100	4TBE843518C0100	4TBE843518C0100
-	-	-	-	EH3AEEES	EH3AEEES	EH3AEEES	EH3AEEES
				4TBE843631C0100	4TBE843631C0100	4TBE843631C0100	4TBE843631C0100
EH3AEEEL							
4TBE843445C0100							
EH3AE0EG	EH3AE0EG	EH3AE0EG	EH3AE0EG	EH3AE2EG	EH3AE2EG	EH3AE2EG	EH3AE2EG
4TBE843447N0100	4TBE843447N0100	4TBE843447N0100	4TBE843447N0100	4TBE843452C0100	4TBE843452C0100	4TBE843452C0100	4TBE843452C0100

### EH3 / GD - DIN size pedestals deep version



EH3 GD deep cabinets

#### **Applications**

- Energy distribution
- Gas meter cabinet
- Control cabinet and
- Generators and transformer stations
- Pump house installation
- Cabinet for 19" power supply frame
- Rectifiers

#### Standard: EN / IEC 61439-5

#### Specifications and advantages

- Doors, back and side walls made from hot molded glass fiber-reinforced polyester.
- RAL 7035 dyed in the mass gray color.
- Glass fiber-reinforced hand lay-up polyester hood.
- · Hood with RAL 7035 outer coating.
- Twelve sizes in two heights, two depths and three widths. Cabinets supplied assembled.
- · Supplied factory-assembled or in kit form.
- IP44 protection rating in accordance with EN/IEC 60529.
- Total insulation 🗆.
- IK10 protection rating against external mechanical impacts in accordance with EN/IEC 62262.
- · Corrosion-resistant.
- UV-stable for outdoors installation.
- Resistant to temperatures of between -35 C and +80 C.

Temporary temperature increases cause no damage.

- This handle is not flush-fitting, increases the usable depth of the cabinet and can be fitted with semi-cylindrical locks.
- Doors can be removed manually for ease of access for maintenance tasks.
- Option to have the door side-opening or bottom-opening.
- The mounting holes for receiving M8 threaded inserts located on the rear panel allow direct access for installing sets of busbars, frames or mounting plates.
- Option to have the door side-opening or bottom-opening.
- Supplied with mounting points for installation on the ground or on a base.
- The shape of the hood prevents standing water which could stagnate.
- The anti-poster surfaces make it very difficult to affix posters and result in them falling away.

EH3 / GD - DIN size pedestals deep version

EH3 / GD - DIN size pedestals deep version

		Width	676	871	1200
Type EH3 / GD					
leight 875 mm					
P44 assembled	cabinet				
		Туре	EH3 / GD-AP - 031	EH3 / GD-AP - 041	EH3 / GD-AP - 051
		HxWxD	875×676×541	875×871×541	875×1200×541
Depth 541 mm		Туре	EH3G86C2	EH3G87C2	EH3G88C2
		Order code	4TBE843645C0100	4TBE843646C0100	4TBE843647N0100
5			1	,	,
Type EH3 / GD Height 1125 mm					
IP44 assembled					
1 44 05561115160	cabiliet				
			Quin-in-in-in-in-in-in-in-in-in-in-in-in-i		W
		Туре	EH3 / GD-AP - 233	EH3 / GD-AP - 243	EH3 / GD-AP - 253
		HxWxD	1125×676×541	1125×871×541	1125×1200×541
Depth 541 mm		Туре	EH3G96C2	EH3G97C2	EH3G98C2
		Order code	4TBE843651C0100	4TBE843652C0100	4TBE843653C0100
		HxWxD	1125×676×676	1125×871×676	1125×1200×676
Depth 676 mm		Туре	EH3G96CA	EH3G97CA	EH3G98CA
		Order code	4TBE843654C0100	4TBE843655C0100	4TBE843656C0100
	Mounting plate	HxWxD	665×485×5	665×680×5	705×1000×5
	Height = 875 mm	Type	EH3M80EH	EH3M81EH	EH3M82EH
	Height - 013 iiiiii	Order code	4TBE843024C0100	4TBE843044C0100	4TBE843057C0100
]		HxWxD	915×485×5	915x680x5	915×1000×5
	Height = 1125 mm	Type	EH3M90EH	EH3M91EH	EH3M92EH
	Height - IIIJiiiii	Order code	4TBE843070C0100	4TBE843071C0100	4TBE843072C0100
		HxWxD	-10F0+2010C0100	915×680×10	915×1000×10
لم	Pertinax with	Type		EH3M91EHP	EH3M92EHP
-	securing screws	Order code		4TBE783325C0100	4TBE783326C0100
	300011119 3010113	Order Code		+10F103353C0100	41DL103320C0100
	Base plate	HxWxD	676 x 541	871 x 541	1200 x 541
	Depth = 541 mm	Туре	EH3PE6EH	EH3PE7EH	EH3PE8EH
	•	Order code	4TBE843657C0100	4TBE843658C0100	4TBE843659C0100
0 0		HxWxD	676 x 676	871 x 676	1200 x 676
10 0	Depth = 676 mm	Туре	EH3PE6EI	EH3PE7EI	EH3PE8EI
	,	Order code	4TBE843660C0100	4TBE843661C0100	4TBE843662C0100
	3 mm polyester with securing sc	rews			
	Polyester base -	HxWxD	900x676x541	900x871x541	900x1200x541
	Supplied in kit form for				
	cabinets				
	Depth = 541 mm	Туре	EH3BE6EH	EH3BE7EH	EH3BE8EH
II.II		Order code	4TBE843663C0100	4TBE843664C0100	4TBE843665C0100
		HxWxD	900x676x676	900x871x676	900x1200x676
2	Depth = 676 mm	Туре	EH3BE6EI	EH3BE7EI	EH3BE8EI
		Order code	4TBE843666C0100	4TBE843667C0100	4TBE843668C0100

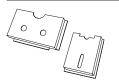
### EH3 / GD - Accessories

#### **EH3 - Accessories**

Product		Туре	Order code	Pack	
Locks with profile half cy	linde	er			
4	(1)	With 2 keys , \	V2432-E		
		EH3AEECI	4TBE843001C0100	1	
		Spare keys for EH3AEECI			
		PS832022	4TBP832022C0100	2	
	0	With 1 square key, 8 mm			
39.5		EH3AEEQH	4TBE843002C0100	1	
	0	With an 8mm triangular key			
		EH3AEETH	4TBE843003C0100	1	
N S	(1)	With 2 keys A	434		
	-	EH3UAECI	4TBE843248C0100	1	
30		Spare keys upor	n request.		

Product	Туре	Order code	Pack		
Handle					
	Handle for lock with a profile half cylinder				
	EH3EEESH	4TBE843000C0100	1		
	Spare part				

### Diagram holder



DIN A4 - W x	DIN A4 - W x H = 325 x 180 mm						
AC811516	4TBC811516C0100	1					
DIN A5 - W x	H= 155 x 225 mm						
PS832000	4TBP832000C0100	1					

#### Double closure handle



For two locks with profile half cylinder

EH3AEEDH 4TBE783042C0100 1

Spare part (Note: for after-market installation, an operation is required on the door mechanism).

#### IP44 ventilation grille



4TBP832019C0100 1 PS832019

Set of 2 pieces



# Suitable for a ventilation opening Includes 2 grilles and 4 nylon nails. Total insulation.

### Threaded insert



M8 threaded insert  ${\bf Dodge-type\ for\ rear\ wall\ and\ door.}$ 4TBO851026C0100 100

#### _

### **Pedestals**

#### EH4 - Column cabinets



#### **Applications**

- Energy distribution
- Cable television
- · Traffic signaling
- Camp sites
- · Gas stations

#### Standard: EN / IEC 61439-5

#### **Specifications**

- Doors, back and side walls made from hot molded glass fiber-reinforced polyester.
- RAL 7035 dyed in the mass gray color.
- IP44 protection rating in accordance with EN/IEC 60529.
- Total insulation 🗆.
- IK10 protection rating against external mechanical impacts in accordance with EN/IEC 62262.
- · Corrosion-resistant.
- UV-stable for outdoors installation.
- Resistant to temperatures of between -35 C and +80 C, temporary temperature increases cause no damage.
- The mounting holes for receiving M6 threaded inserts located on the rear panel allow direct access for installing sets of busbars, frames or mounting plates.
- The lower section of the column provides a stable mounting into the ground
- The shape of the hood prevents standing water which could stagnate.

#### EH4

- Cabinet with hinged door IP44.
- The column and lower section are supplied together.
- Supplied with handle for semi-cylindrical lock.
- Door opening angle of 180°.

#### EH4-S

- Cabinet with removable front components IP44.
- The lower and rear sections of the column are molded as a single piece.
- The front of the column has a recessed housing for a cylindrical
- lock, protected by a plastic anti-vandalism cover.
- Easy to access thanks to removable front panels.

### EH4 - Column cabinets

### EH4/ EH4S - Distribution columns











Width	395	495	745	320	320
Туре	EH4-00	EH4-0	EH4-1	EH4-S1	EH4-S2
HxWxD	1600 x 395 x 224	1600 x 495 x 224	1600 x 745 x 224	1420 x 320 x 234	1850 x 320 x 234
Type	EH4CAECH	EH4CAECI	EH4CAEL	EH4CB9CH	EH4CC9CH
Order c	ode 4TBE844130R0100	4TBE844131R0100	4TBW844132C0100	4TBE844153R0100	4TBE844185R0100



Pertinax mounting plate with securing screws 
 HxWxD
 790 x 370 x 5
 790 x 470 x 5
 790 x 720 x 5
 600 x 278 x 5
 950 x 278 x 5

 Type
 EH4MEXEH
 EH4ME0EH
 EH4ME1EH
 EH4MB9EH
 EH4MC9EH

 Order code
 4TBE844133C0100
 4TBE844134C0100
 4TBE844135N0100
 4TBE844154R0100
 4TBE844154R0100

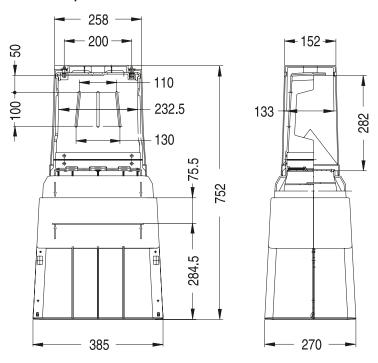
#### Accessories

Product	Туре	Order code	Pack					
Locks with profile half cyline	Locks with profile half cylinder							
	For EH4 - sec	curity lock V2432E						
	PS832030	4TBP832030C0100	1					
A STATE OF THE STA	Spare keys fo	or PS832030						
	PS832741	4TBP832741R0100	2					
25 8		For EH4 - security lock V2432E with double closure						
39.5	PS832331	4TBE832331R0100	1					
( )	For EH4-S - v	For EH4-S - with 2 keys, V2432-E						
	EH3AEECI	4TBE841001C0100	1					
	Spare keys fo	or 843001						
4 30	PS832022	4TBP832022C0100	1					
	Spare keys upo	on request.						

Product	Type	Order code	Pack		
Double closure handle					
		For two locks with profile half cylinder			
	EH4AEEDH	4TBE844152R0100	1		
	installation, a	Spare part (Note: for after-market installation, an operation is required on the door mechanism).			

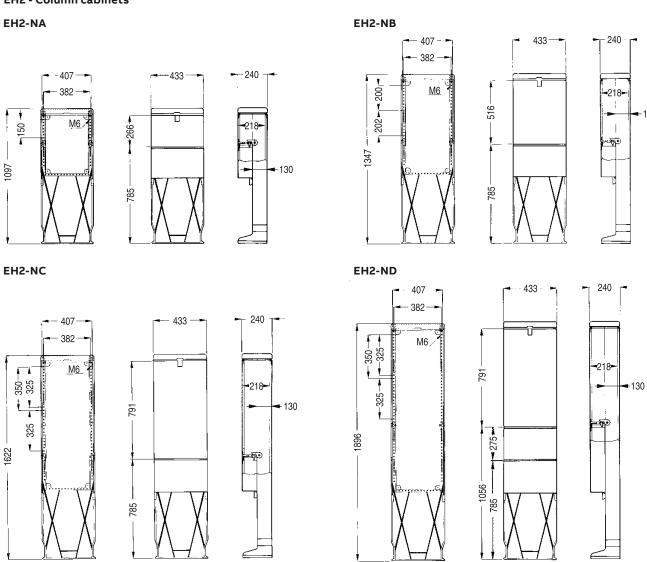
### EH1 - Small pedestal - Dimensional drawings

EH1 - Small pedestal

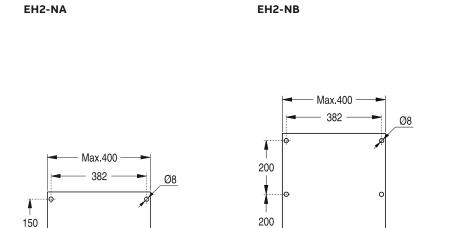


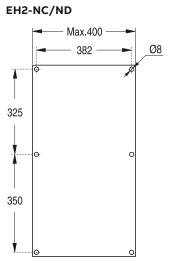
### EH2 - Dimensional drawings

#### EH2 - Column cabinets



### EH2 - Mounting plates

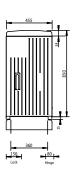


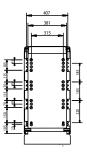


### EH3 - Dimensional drawings

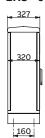
EH3 - 00

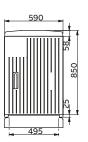


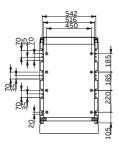




EH3 - 0

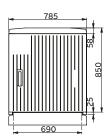


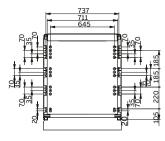




EH3-1

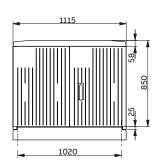


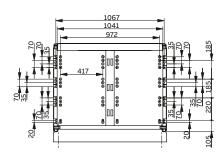




EH3 - 2



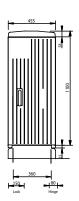


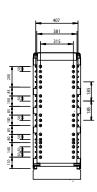


### EH3 - Dimensional drawings

### EH3/AP - 200

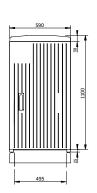


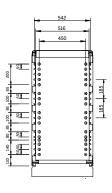




EH3/AP - 20

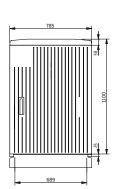


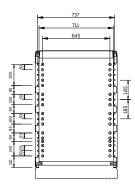




EH3/AP - 21

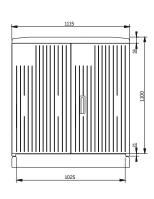


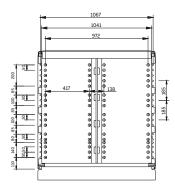




EH3/AP - 22

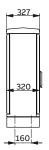


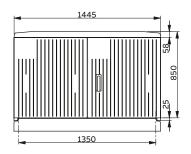


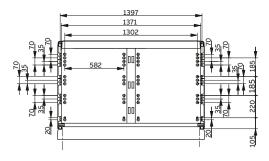


### EH3 - Dimensional drawings

EH3 - 3

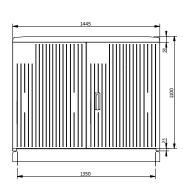


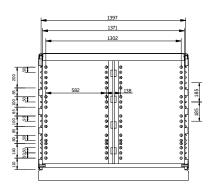




EH3/AP - 23

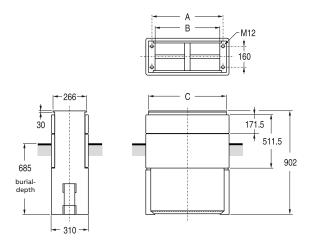






### EH3 - Dimensional drawings

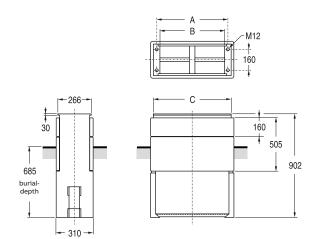
### Polyester bases DIN 00-0-1-2



The dimensions of the base fixation points are in accordance with DIN 43629.

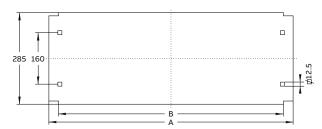
Dimensions							
DIN	00	0	1	2			
A	360	495	690	1.020			
В	322	457	652	982			
С	408	543	738	1.068			

### Polyester bases DIN 3



Dimensions										
DIN	3									
A	1.35									
В	1.315									
С	1.400									

#### **Bottom plate**

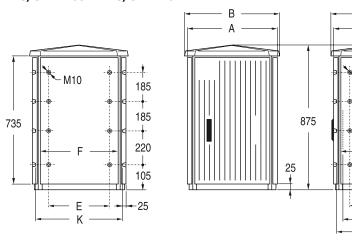


To be mounted between pedestal and DIN-base or as bottom plate of the enclosure.

Dimensions												
DIN	00	0	1	2	3							
A	427	562	757	1.086	1.416							
В	360	495	630	1.020	1.350							

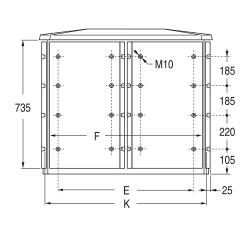
### EH3 / GD - Dimensional drawings

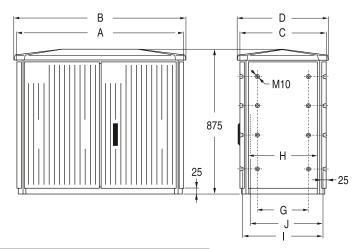
### EH3/GD-AP 031 - EH3/GD-AP 041



Dimer	nsions		
DIN	31	41	
A	676	871	
В	716	911	
С	541	541	
D	581	581	
E	450	645	
F	500	695	
G	317	317	
Н	250	250	
I	493	493	
J	459	459	
K	628	823	

### EH3/GD-AP 051



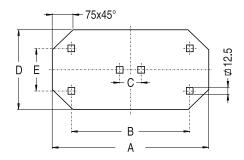


- D -- C -

M10

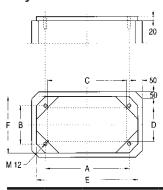
Dimer	sions										
DIN	Α	В	С	D	E	F	G	Н	1	J	K
51	1200	1240	541	581	972	1025	317	250	493	459	1.152

### **Bottom plate**



Dimensions						
DIN	31	233	41	243	51	253
A	635	635	830	830	1158	1158
В	495.5	496.5	691.5	691.5	1021	1021
С	-	-	-	-	50	50
D	380	632	388	632	380	632
E	245	498	246	498	245	498
No of holes	4	4	4	4	6	6

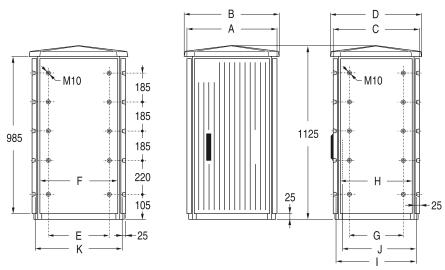
### Polyester base



A       498       498       693       693       1022       10         B       246       498       246       498       246       49         C       456       456       651       651       980       90         D       205       456       204       456       204       4         E       626       626       821       821       1150       1							sions	Dimen
B       246       498       246       498       246       49         C       456       456       651       651       980       9         D       205       456       204       456       204       4         E       626       626       821       821       1150       1	53		51	243	41	233	31	DIN
C       456       456       651       651       980       9         D       205       456       204       456       204       4         E       626       626       821       821       1150       1	022	22	10	693	693	498	498	A
<b>D</b> 205 456 204 456 204 4. <b>E</b> 626 626 821 821 1150 1	98	6	24	498	246	498	246	В
<b>E</b> 626 626 821 821 1150 1	80	0	98	651	651	456	456	С
	56	4	20	456	204	456	205	D
	150	50	11	821	821	626	626	E
<b>F</b> 374 626 374 626 374 6	26	4	37	626	374	626	374	F

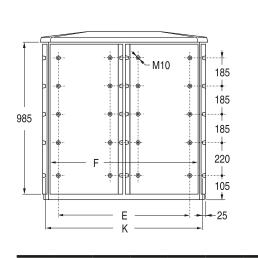
### EH3 / GD - Dimensional drawings

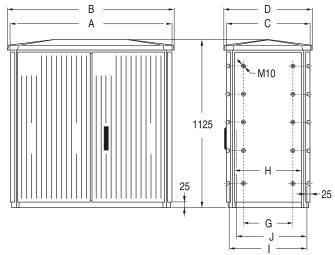
### EH3/GD-AP 233 - EH3/GD-AP 243



Dimer	nsions	
DIN	233	243
Α	676	871
В	716	911
С	676	676
D	716	716
E	450	645
F	500	695
G	450	450
Н	500	500
I	628	628
J	594	594
K	628	823

### EH3/GD-AP 253

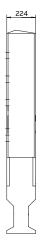




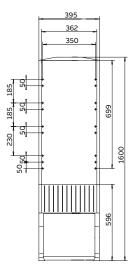
Dimen	sions										
DIN	Α	В	С	D	E	F	G	Н	I	J	K
253	1.200	1.240	676	716	972	1.025	450	500	628	594	1.152

### EH4 - Dimensional drawings

EH4 - 00

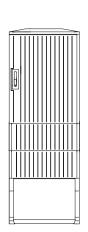


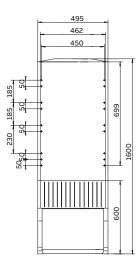




EH4 - 0

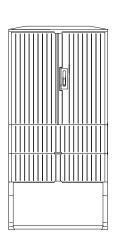


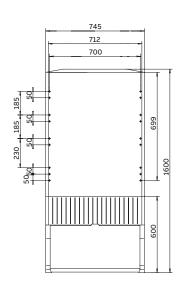




EH4 - 1

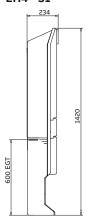




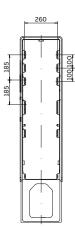


### EH4 - Dimensional drawings

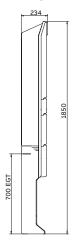
EH4 - S1

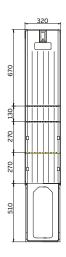






EH4 - S2







EH1 - EH2 Stand	H1 - EH2 Stand alone  EH1 issipation 752×385×270				emperature	rise [Kelvin]				
			EH2-NA		EH2-NB		EH2-NC		EH2-ND	
Dissipation			256×43		516×43		791×43		1066×4	
Watt	Half	Тор	Half	Тор	Half	Тор	Half	Тор	Half	Тор
10		5	7	8	5	6		5		5
20	7	9	13	14	8	10	7	8	5	8
30	10	12	17	19	11	14	9	12	7	11
40	12	15	22	24	14	17	12	15	9	14
50	18	26	29	17	21	14	17	11	17	
60	21	30	34	20	24	16	20	13	20	
70	24	34	38	23	27	18	23	14	23	
80	26	38	43	25	30	20	25	16	25	
90	29	42	47	28	33	23	28	18	28	
100	32	46	51	30	36	25	30	19	30	
120	37	53		35	42	28	35	22	35	
140	41			39	48	32	40	25	40	
160	46			44	53	36	44	28	44	
180	51			48		39	49	31	49	
200	55			53		43	53	34	53	
220				57		46		36	57	
240						50		39		
260						53		42		
280						56		44		
300								47		
350								53		

EH4 Stand alone		Temperature rise [Kelvin]													
	EH4-00	' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	EH4-0		EH4-1	ı	EH4-S1								
Dissipation	1.004×39		1.004×4		1.004×74		820×320								
Watt	Half	Тор	Half	<b>Top</b> 5	Half	Тор	Half	<b>Top</b> 5							
10		4					4								
20	6	8	5	8		6	7	9							
30	9	11	7	11	5	8	10	13							
40	11	14	9	14	7	10	13	16							
50	13	16	11	17	8	12	15	19							
60	15	19	13	20	9	14	18	22							
70	17	21	14	22	11	15	20	25							
80	19	24	16	25	12	17	22	28							
90	21	26	18	27	13	19	25	31							
100	23	28	19	29	14	21	27	34							
120	26	33	22	34	16	24	31	39							
140	30	37	25	39	19	27	35	44							
160	33	41	28	43	21	30	39	49							
180	36	45	31	47	23	33	43	54							
200	39	49	33	51	25	36	47	59							
220	42	53	36	55	27	39	51	64							
240	46	57	39	59	29	42	54	68							
260	49	61	41	63	31	44	58	73							
280	52	65	44	67	33	47	62	77							
300	55	68	46	71	34	50	65								
350	62	77	52		39	56	74								
400	69		58		43	63									
450	76		64		48	69									
500			70		52	75									
550			75		56										
600					60										
650					64										
700					68										
750					72										
800					76										
850					80										

EH3 Stand	EH3 Stand alone						Т	emperati	ure rise	[Kelvin]							
	EH3/F EH3/A	-0	EH3/F EH3/A	-1	EH3/F EH3/A	-2	EH3/F EH3/A	-3	EH3/A	P-20	EH3/A	P-21	EH3/A	P-22	EH3/AP-23		
Dissipation Watt		90×320 Top		85×320 Top		.115×320 Top		.445×320 Top	1.125 Half	590×320 Top	1.125×785×320 Half Top		1.125×1.115×320 Half Top		1.125× Half	1.125×1.445×320 Half Top	
10																	
20	5	6		5						5		4					
30	6	9	5	7		5			5	7	4	6		4			
40	8	11	6	9	5	6		5	6	9	5	7		5		4	
50	10	13	8	10	6	7	5	6	8	11	6	8	5	6	4	5	
60	11	16	9	12	7	9	5	7	9	13	7	10	5	7	5	6	
70	13	18	10	13	7	10	6	8	10	14	8	11	6	8	5	7	
80	14	20	11	15	8	11	7	8	11	16	9	12	7	9	6	8	
90	16	22	12	16	9	12	7	9	12	18	10	14	7	10	7	9	
100	17	23	13	18	10	13	8	10	13	19	11	15	8	11	7	9	
120	20	27	15	21	11	15	9	12	15	22	12	17	9	12	8	11	
140	22	31	17	23	13	17	10	13	17	25	14	19	10	14	9	12	
160	25	34	19	26	14	19	12	15	19	28	15	22	12	16	10	14	
180	27	38	21	29	16	21	13	16	21	31	17	24	13	17	11	15	
200	29	41	23	31	17	22	14	18	23	33	18	26	14	19	13	16	
220	32	44	25	34	19	24	15	19	25	36	20	28	15	20	14	18	
240	34	47	27	36	20	26	16	21	27	39	21	30	16	22	14	19	
260	36	51	29	38	21	28	17	22	28	41	23	32	17	23	15	20	
280	39	54	30	41	23	29	18	23	30	44	24	34	18	25	16	21	
300	41	57	32	43	24	31	19	25	32	46	26	36	19	26	17	23	
350	46		36	49	27	35	22	28	36	52	29	40	22	29	20	26	
400	51		41	54	30	39	24	31	40		32	45	24	33	22	29	
450	57		45		33	43	27	34	44		35	50	27	36	24	31	
500			48		36	47	29	37	48		39	54	29	39	26	34	
550			52		39	51	31	40	52		42		31	42	28	37	
600			56		42	54	34	43	56		45		34	45	30	40	
650					45		36	46			48		36	48	32	42	
700					47		38	49			51		38	51	34	45	
750					50		40	51			53		40	54	36	47	
800					53		42	54			56		43		38	50	
850					55		44	57					45		40	52	
900							47						47		42	55	
950							49						49		44		
1.000							51						51		46		
1.100							55						55		49		
1.200															53		
1.300															56		

EH3 Stand a	EH3 Stand alone						Te	emperatu	ıre rise [	Kelvin]						
	EH3/0		EH3/D										EH3/GD-AP - 243 1.125×871×676			
Dissipation Watt	875×7 Half	85×320 Top	875×11 Half	115×320 Top	875×6 Half	76×541 Top	875×87 Half	71×541 Top	875×1.1 Half	200×541 Top	1.125×6 Half	576×676 Top	1.125× Half	871×676 Top	1.125×1 Half	L.200×676 Top
10																
20		5				5										
30	5	7		5	5	7	4	5				4				
40	6	9	5	6	6	8	5	7		5		5		5		
50	8	10	6	7	7	10	6	8	5	6	5	6	4	5		5
60	9	12	7	9	9	11	7	9	5	7	5	7	5	6	4	5
70	10	13	7	10	10	13	8	10	6	8	6	8	6	7	5	6
80	11	15	8	11	11	14	9	12	7	9	7	9	6	8	5	7
90	12	16	9	12	12	16	10	13	8	10	7	10	7	9	6	7
100	13	18	10	13	13	17	11	14	8	11	8	11	7	10	6	8
120	15	21	11	15	15	20	12	16	10	12	9	12	9	11	7	9
140	17	23	13	17	17	22	14	18	11	14	11	14	10	13	8	11
160	19	26	14	19	19	25	16	20	12	15	12	15	11	14	9	12
180	21	29	16	21	21	27	17	22	13	17	13	17	12	15	10	13
200	23	31	17	22	23	30	19	24	14	18	14	18	13	17	11	14
220	25	34	19	24	24	32	20	26	16	20	15	20	14	18	12	15
240	27	36	20	26	26	32	22	28	17	21	16	21	15	19	13	16
260	29	38	21	28	28	37	3	30	18	23	17	23	16	21	14	18
280	30	41	23	29	30	39	25	32	19	24	18	24	17	22	15	19
300	32	43	24	31	31	41	26	34	20	25	19	26	18	23	16	20
350	36	49	27	35	35	47	29	38	23	29	22	29	20	26	18	22
400	41	54	30	39	39	52	33	42	25	32	25	32	23	29	20	25
450	45		33	43	43		36	47	28	35	27	35	25	32	22	27
500	48		36	47	47		39	51	30	38	29	38	27	35	24	30
550	52		39	51	51		42	55	33	41	32	42	29	38	25	32
600	56		42	54	55		45		35	44	34	45	31	40	27	34
650			45				48		37	47	36	47	34	43	29	37
700			47				51		40	50	38	50	36	46	31	39
750			50				54		42	53	41	53	38	48	33	41
800			53						44	56	43	56	40	51	34	43
850			55						46		45		42	54	36	46
900									49		47		44	56	38	48
950									51		49		46		40	50
1.000									53		51		47		41	52
1.100											55		51		44	56
1.200													55		48	
1.300															51	
1.400															54	

### Notes

80

Gemini: the improved range

### Gemini: the improved range

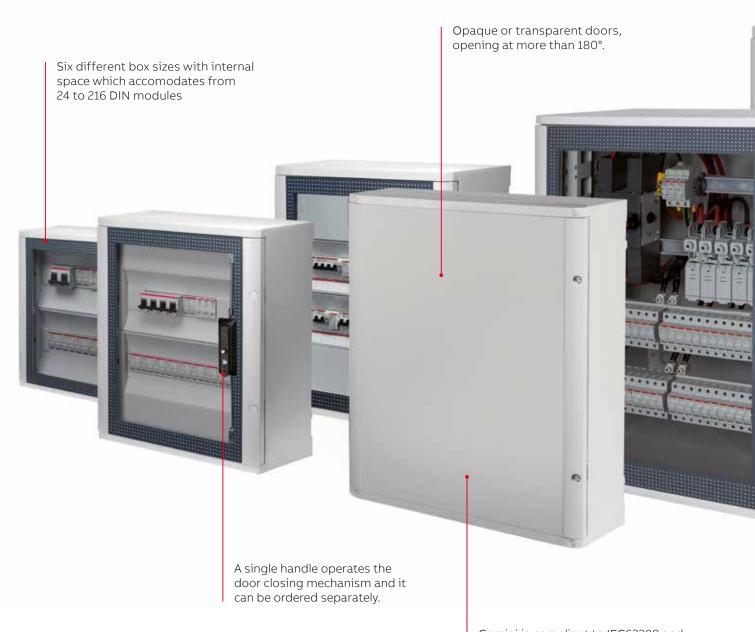
### Index

Gemini: the	improved	range
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Robust and flexible thermoplastic enclosures	170
Easy to install - Versatile and simple. To meet any application	172
High degree of protection - Designed to operate in harsh environments	174
Adaptable to customers' requirements Widest range and numerous accessories for a complete solution	175
Basic configuration	178
Components for automation applications	181
Components for distribution and mixed applications	186
Accessories	194
Fast selection table	199
Configurations examples	203
Technical details - Compliance with standards and technical characteristics	206
Technical details - IP degree of protection	208
Technical details - IK degree of resistance to impacts	209
Technical details - Double insulation and self-extinguishing tests	210
Technical details - Resistance to chemical agents	211
Technical details - Integration with ABB products	212
Technical details - Disposal instructions	213
Technical details - Overall dimensions – Basic configuration	214
Technical details - Overall dimensions – Components for automation applications	217
Technical details - Overall dimensions Components for distribution and mixed applications	218

# Gemini: the improved range

# Robust and flexible thermoplastic enclosures



Gemini is compliant to IEC62208 and UL 508A standards. IP66 certifies Gemini is completely protected against the infiltration of solid bodies and is resistant to the penetration of jets of water similar to sea waves.





#### Easy to install

Ready-to-use solutions are available to quickly install all the devices without using tools.



#### High degree of protection

Extremely sturdy, even against 20 joules impact, dust and water jets (IK10 and IP66 degree of protection), able to operate in a wide range of temperatures (25 up to 100°C), exceptionally resistant to UV and chemical agents and compliant with IEC 62208 and UL 508A standards.



#### Adaptable to customers' requirements

Available in 6 sizes and with transparent or blind door, with full metal and plastic base plates. Gemini can be used even in very difficult application circumstances and extreme weather conditions.



#### **Eco-friendly**

Thanks to co-injection technology, Gemini's thermoplastic not only ensures sturdiness, mechanical features and resistance to oils but it also reduces at the same time the environmental impact at the end of its useful life since it's 100% recyclable.

# The thermoplastic co-injection molding process

It's like a "sandwich" of two materials: a compact external covering and an expanded core. This technology ensures the highest level of mechanical protection against impacts (IK10).



## Easy to install

## Versatile and simple. To meet any application.

Offering the best technology for more reliable energy distribution solutions, by protecting people, equipments and resources.

ABB's Gemini enclosures provide a real system of integrated and complementary functions making them configurable into different applications: for automation, distribution and combined automation and distribution.

Gemini is designed to be perfectly compatible with ABB components for low voltage control and monitoring. In mixed applications, the Gemini enclosure is designed to be fitted with System pro M modular devices and Tmax XT moulded-case circuit breakers. To respect safety standards, all the enclosure components are easy to fit and can be fixed to the base plate or to the box frame without using any tools.

Wiring operations are carried out from the front followed by snapping the base plate or the distribution frame onto the box.

The patented frame is fitted with the cable duct incorporated in the uprights.

Gemini is also flexible thanks to six different box sizes and internal space to accommodate from 24 to 216 DIN modules. For control and command applications, three typologies of base plates are available: standard metal, perforated metal and insulated.

Lightweight thermoplastic material makes handling operation easier compared to traditional enclosure, for easier handling.



- Few parts: snap-on fixing, no tools needed
- Pre-assembled hinges
- Door with 180 degree rotation
- Frame with integrated vertical wiring duct
- Frontal cabling: comfort in the wiring process
- A wide range of accessories for automation and distribution applications

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

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

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

04 The fixing hooks supplied in the standard versions are applied without having to use tools.

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











_ 05

# High degree of protection

# Designed to operate in harsh environments

Gemini is developed and designed by ABB together with the direct collaboration of panel builders, installers and designers in order to create insulating enclosures to better face extreme weather conditions.

Gemini represents the best solution for both distribution and automation (control and command) applications.

For a valid enclosure, the degree of protection is an important factor. Gemini thermoplastic enclosures are totally protected against the infiltration of solid bodies thanks to an IP66 degree of protection (IP30 with the door open and with the appropriate components installed) and a double insulation, even in the event of indirect contact.

They are suitable for environments with extreme temperatures, in outdoor applications and severe conditions.

Thermoplastic material retains its characteristics for a long time since it's not subject to corrosion from chemical and atmospheric agents such as dust and sand. In Mining or Construction applications as well as manufacturing plants, Gemini withstands harsh chemicals with high levels of performance.

Typical examples of some Gemini applications can be seen in Manufacturing sites, Solar power plants, greenhouses, chemical plants and in any other environments where distribution and automation demand specific safety requirements and service continuity.

It is particularly recommended in photovoltaic and greenhouse applications, also because of its strong resistance to UV rays.



- IP66 degree of protection (IP30 with the door open and with the appropriate components installed)
- Double insulation from dust and water jets, even in the event of indirect contact
- Adaptation to environments with extremely high or low temperatures (-25°C to 100°C), in outdoor applications and in severe conditions
- Resistance to aggressive chemical agents and UV radiation
- Resistance to fire and abnormal heat (GWT up to 750°C).
- Insulation Voltage: 1000 Vac; 1500 Vdc
- UL Type 1, 3R, 4, 4X, 12

#### Additional tests completed

- Dust/sand resistance (factory internal tested)
- Saline environments (according to IEC 60068-2-52)
- Weathering (according to IEC 60068-2-5)
- Permanent sun exposure (IEC 60068-2-5)







### **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 IP66 enclosures 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 (for more information see specific documentation on abb.com).

# Adaptable to customers' requirements

# Widest range and numerous accessories for a complete solution

With Gemini, you can benefit from a wide range of enclosures with different dimensions and the possibility to arrange the devices into the DIN-Rail as you need. Moreover, Gemini enclosures have a wide range of accessories for both automation and distribution applications, ensuring maximum versatility and integration.





#### Accessories

- Various locking systems can be installed (triangular, squared, with handles and ciphered type
- Ventilation and anti-condensation kits: protecting devices from the effects of heat and humidity
- · Wall brackets, pole mounting kit and
- pedestal make it easier to install the enclosures in any context.
- Kit for installing Tmax XT circuit-breakers
- The universal drill bit can be used to create the holes to install the cable glands for cable derivations
- Doors with single central handle (as per picture beside) can be fitted with half cylinder locking systems and/or padlock

_ 01



— 02



03



01 Doors with central single handle are also available.

— 02 Wall-mounted installation is possible using the special mounting brackets.

03 ABB logo with its minimal graphic design fits well to hinged doors .

— 04 Pole-mounted or mounted on a special pedestal installation is also possible.

O5 The standard doublebit locks supplied can be replaced by the version with ciphered key and handle or with square or triangular impression.



_ 04

05

### **General Purpose Enclosures**

### Gemini - Basic configuration

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.

### General purpose enclosures

### Gemini - Basic configuration

### **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	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

#### 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



Transparent door switchboard



Opaque door switchboard

### **General Purpose Enclosures**

### Gemini - Basic configuration



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



### Gemini - 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.





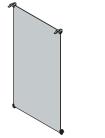


Example of the configuration of a switchboard for an automation application: some ABB control and protection devices are installed on the plate. The inner door is fitted with light-signaling devices.

Gemini - 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 base plate

#### Blank metal

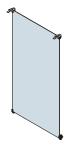
Size of the switchboard	Code	Unit/Pack
1	1SL0259A00	1/6
2	1SL0260A00	1/6
3	1SL0261A00	1/4
4	1SL0262A00	1/4
5	1SL0263A00	1/4
6	1SL0264A00	1/2



Drilled metal 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



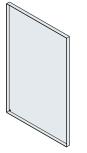
Insulating material base plate

#### Insulating material

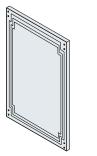
Size of the switchboard	Code	Unit/Pack
1	1SL0267A00	1/6
2	1SL0268A00	1/6
3	1SL0269A00	1/4
4	1SL0270A00	1/4
5	1SL0271A00	1/4
6	1SL0272A00	1/2

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

# Gemini - Components for automation applications



Inner door, sizes 1-2



Inner door, sizes 3-4-5-6

#### 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

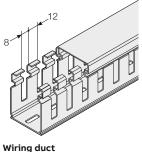
Size of the switchboard	Code	Unit/Pack
1	1SL0251A00	1/4
2	1SL0252A00	1/4
3	1SL0253A00	1/2
4	1SL0254A00	1/2
5	1SL0255A00	1/2
6	1SL0256A00	1/1

Gemini - Components for automation applications

### Wiring ducts

- Made in self-extinguishing thermoplastic material (UL 94 V0), resistant to abnormal heat and fire up to 960  $^{\circ}$ 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

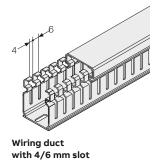
#### With 8/12 mm slots



Wiring duct with 8/12 mm slot

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
60×100	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

Gemini - Components for automation applications



With 4/6 mm slots

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	05 280	20/240
Rapid mounting device for wiring duct, W 150 mm	05 282	20/240



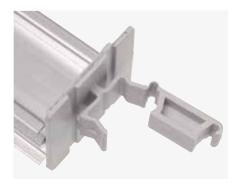
### Gemini - Components for distribution and mixed applications

In distribution and mixed applications, the Gemini switch-board 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 dis-

tance 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.

Gemini - 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



Size of the switchboard	Modules per row	Code	Unit/Pack
1	12	1SL0290A00	1/10
2	18	1SL0291A00	1/10
3	18	1SL0291A00	1/10
4	24	1SL0292A00	1/10
5	24	1SL0292A00	1/10
6	36	1SL0293A00	1/10

Gemini - 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)

Unit/Pack

1/8

1/8

1/8

1/4 1/4

1/2

Code

1SL0307A00

1SL0308A00

1SL0308A00

1SL0309A00

1SL0309A00 1SL0310A00

• Document pocket for storing descriptions of installed devices

#### 1 module

1

2

3

4

Size of the switchboard



Drilled panel, 1 module



1 + 1/2 module



Drilled panel, 1 + 1/2 module

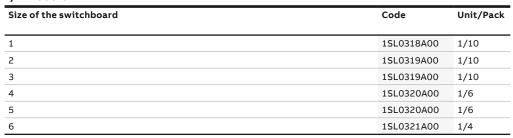
1 · 1/2 module		
Size of the switchboard	Code	Unit/Pack
2	1SL0313A00	1/8
3	1SL0313A00	1/8
4	1SL0314A00	1/4
5	1SL0314A00	1/4
6	1SL0315A00	1/2

Gemini - 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
- $\bullet\,$  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

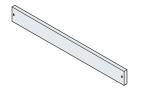


### 1 module

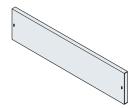
Size of the switchboard	Code	Unit/Pack
1	1SL0324A00	1/8
2	1SL0325A00	1/8
3	1SL0325A00	1/8
4	1SL0326A00	1/4
5	1SL0326A00	1/4
6	1SL0327A00	1/4

#### 2 modules

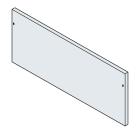
Size of the switchboard	Code	Unit/Pack
1	1SL0330A00	1/6
2	1SL0331A00	1/6
3	1SL0331A00	1/6
4	1SL0332A00	1/4
5	1SL0332A00	1/4
6	1SL0333A00	1/4



Blank panel, 1/2 module



Blank panel, 1 module



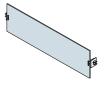
Blank panel, 2 modules

Gemini - Components for distribution and mixed applications

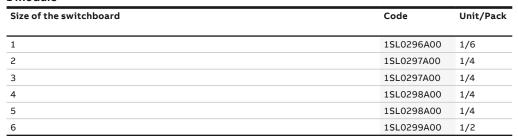
#### Partial modular plates

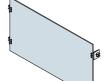
- Available in 1 module (H 150 mm) and 2 module (H 300 mm, sizes 2-6) dimensions
- Snap-on mounting onto uprights with depth adjustment.

#### 1 module



Partial modular plate, 1 module





Partial modular plate, 2 modules

#### 2 modules

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

Unit/Pack

1/4

1/4 1/4

1/4

1/2

## **General purpose enclosures**

Gemini - 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

Code

1SL0373A00

1SL0373A00

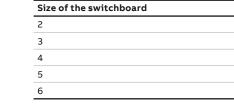
1SL0374A00

1SL0374A00

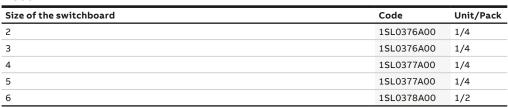
1SL0375A00

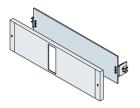
- Composed of a plate with special drilled holes and a protection panel with vertical slots that can be hinged on both sides and snap-on mounted (in compliance with reference Standards a tool must be used for removing the panel)
- Available for sizes 2-6
- Snap-on mounting onto uprights with the possibility of adjusting the plate depth

#### H 150 mm

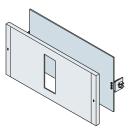








H 150 mm



H 300 mm

Gemini - Components for distribution and mixed applications

#### Kit selection

Size	Installation	XT1				XT2				XT3				XT4			
		3р	4p	3p D	4p D	3р	4p	3p D	4p D	3р	4p	3p D	4p D	3р	4p	3p D	4p D
1	D																
	01																
	Т																
2	D																
	K1			-													
	K2			-								-					
	01					•											
	02			-		•						-					
	Т																
3	D																
	K1																
	K2																
	01																
	02																
	Т					•											
4	D		•			•				•	•		•				•
	K1		•														
	K2																
	01		•		•	•	•		•	•	•						•
	02		•	-	•	•	•		•	•	•		•				•
	Т			-		-	•	-		•		-				•	
5	D			-		-	•	-		•		-		-		•	
	K1			-													
	K2		•	•						-		•					
	01																
	02					•				•						•	
	Т																
6	D			•				•		•		•		•			-
	K1		•	•													
	K2		•	•	•					•	•	•					
	01					•				•							
	02			•		•		•		•		•		-		-	
	Т																

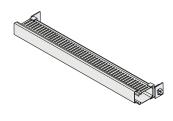
- Caption D, installation on DIN rail
- K1, installation with Tmax kit H = 150 (holes made)
- K2, installation with Tmax kit H = 300 (holes made)
- O1, installation on modular plate (1 module, H = 150 mm)
- O2, installation on modular plate (2 modules, H = 300 mm)
   T, installation on total base plate

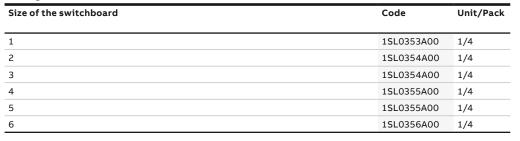
Gemini - Components for distribution and mixed applications

#### Wiring kits

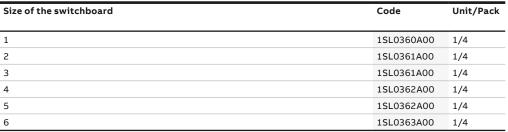
- omposed of wiring duct in versions 25x60 mm and 40x60 mm (WxH, 8-12 mm slots) and Fix-O-Rapid
- Snap-on mounting on uprights with depth adjustment

#### Wiring duct 25x60 mm





### Wiring duct 40x60 mm





Gemini - 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.





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





 $Gemini\ wall-mounted\ in stallation\ using\ the\ special\ mounting\ brackets.$ 



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.

### Gemini - Accessories

#### Locks

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

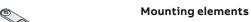


Description	Code	Unit/Pack
Lock with Yale type ciphered key and handle	1SL0340A00	1/10
Lock with triangular impression	1SL0341A00	1/10
Lock with square impression	1SL0339A00	1/10
Tamper-proof locking kit (code 1SLO340A00 included)	1SL0458A00	1/10
Gemini standard lock	1SL0459A00	1/10

#### 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





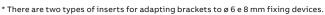
Guarantee optimum wall, pole and floor mounting conditions.



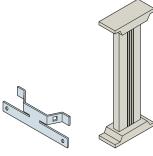
Plastic wall brackets

Stainless steel wall brackets

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



 $[\]ensuremath{^{**}}$  The kit includes two elements for fixing the upper and the lower part of the switchboard.



Pole mounting kit

Floor mounting pedestal



Pedestal

#### **Pedestals**

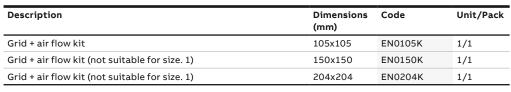
Allows the application of the Gemini switchboard to the ground without the need to prepare the construction of concrete footings or foundations when the pedestal is buried.

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

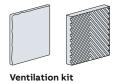
#### Gemini - Accessories

### 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.



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.

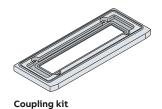


Base cover

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.

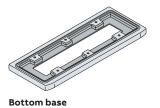


Code	Unit/Pack
1SL0413A00	1/2
1SL0414A00	1/2
1SL0415A00	1/2
1SL0416A00	1/2
	1SL0413A00 1SL0414A00 1SL0415A00

### Gemini - Accessories

#### Bottom bases H 30

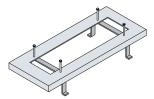
For fixing the Gemini switchboard directly to the floor.



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

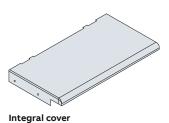
#### Fixed frames

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



Fixed frame

Description	Code	Unit/Pack
Fixed frame for size 2-3 switchboards	1SL0433A00	1/2
Fixed frame for size 4 switchboards	1SL0434A00	1/2
Fixed frame for size 5 switchboards	1SL0435A00	1/2
Fixed frame for size 6 switchboards	1SL0436A00	1/2



### 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



Gemini - Accessories



Rase socket

#### **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



Module covers



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

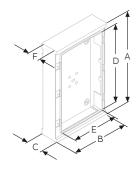
# Temperature management IP20 heater

	Dime (mm)	nsion	s		Package/ No. of
Description	Н	W	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

For technical details, see page 50.

Gemini - Fast selection table

### **Basic configuration**





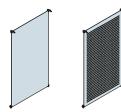




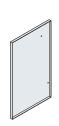


Size	No. of installable DIN modules	No. of vertical mod.	Exter	nal nsions		Inter	nal nsions		Complete swi	tchboard	Вох	Door	
	(mod. x row)	(H=150 mm)	Α	В	С	D	E	F	Trasparent door	Opaque door		Transparent	Opaque
1	24 (12x2)	2	400	335	210	300	250	180	1SL0211A00	1SL0201A00	1SL0221A00	1SL0241A00	1SL0231A00
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













### **Accessories for distribution**

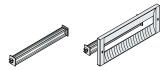
Wiring ducts	Fix-O-Rapid	
Check the ABB Library		

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

Gemini - Fast selection table

### Components for automation

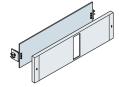








Size	Uprights	DIN rail	Drilled panel		Blank panel	Blank panel			Modular plate	
			H=150 mm	H=225 mm	H=75 mm	H=150mm	H=300 mm	H=150 mm	H=300 mm	
1	1SL0283A00	1SL0290A00	1SL0307A00	-	1SL0318A00	1SL0324A00	1SL0330A00	1SL0296A00	-	
2	1SL0284A00	1SL0291A00	1SL0308A00	1SL0313A00	1SL0319A00	1SL0325A00	1SL0331A00	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	. 150 mm H. 300 mm		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				

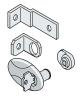
Gemini - Fast selection table

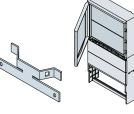
### Accessories common to the whole range





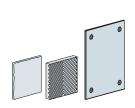








Size	Lock with handle	Lock with triangular impression	Lock with square impression	Anti tampering locking kit	Pole installation kit	Pedestal	Universal drill bit	Base mounting kit for metal and insulated plates
1	1SL0340A00	1SL0341A00	1SL0339A00	1SL0458A00	1SL0343A00	-	12894	1SL0383A00
2	_				1SL0344A00	-		
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	Check the	1SL0385A00	1SL0351A00	1SL0352A00	-	-	-	1SL0451A00	12851	-
2	ABB Library	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	_	

Gemini - Fast selection table

#### Door with handle



Transpa	Transparent door with handle							
Size	Box dimensions WxHxD (mm)	Code						
3	460x700x260	1SLM006600A0243						
4	590x700x260	1SLM006600A0244						
5	590x855x360	1SLM006600A0245						
6	840x1005x360	1SLM006600A0246						

Opaque	Opaque door with handle		
Size	Box dimensions WxHxD (mm)	Code	
3	460x700x260	1SLM006600A0233	
4	590x700x260	1SLM006600A0234	
5	590x855x360	1SLM006600A0235	
6	840x1005x360	1SLM006600A0236	

#### Accessories



Lock with handle		
Description	Code	
Yale Lock for door with handle	1SLM006600A0459	
Ronis 455 lock for door with handle	1SLM006600A0460	

### Mounting elements



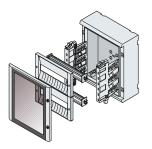


Horizontal and vertical plastic wall brackets (4 pieces)*	Horizontal and vertical stainless steel wall brackets (4 pieces)
1SL0342A00	1SL0401A00

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

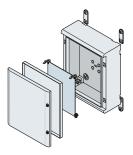
# Gemini - Configurations examples

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.

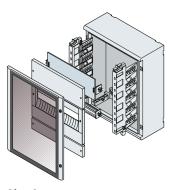


Size 1

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

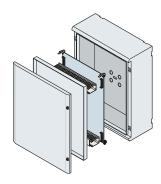


Automation	
Box + opaque door	1SL0201A00
Metal base plate	1SL0259A00
Inner door	1SL0251A00
Wall-mounting brackets	1SL0342A00



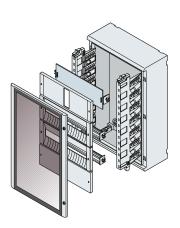
Size 2

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



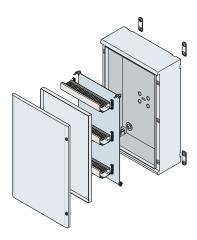
Automation	
Box + opaque door	1SL0202A00
Metal base plate	1SL0260A00
Inner door	1SL0252A00
Wiring duct	Check the ABB Library
Fix-O-Rapid	Check the ABB Library

# Gemini - Configurations examples

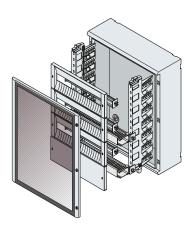


Size 3

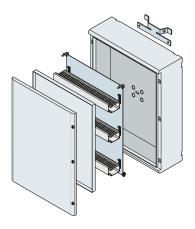
Distribution/Mixed	
Box + transparent door	1SL0213A00
Uprights	1SL0285A00
Kit for Tmax	1SL0336A00
Drilled panel 1 mod. + DIN rail	1SL0308A00(x2)
DIN rail	1SL0291A00
Blank panel 1 mod.	1SL0325A00



Automation	·
Box + opaque door	1SL0203A00
Base insulating plate	1SL0269A00
Inner door	1SL0253A00
Wiring duct	Check the ABB Library
Fix-O-Rapid	Check the ABB Library
Wall-mounting brackets	1SL0342A00

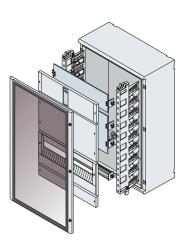


Taglia 4	
Distribution/Mixed	
Box + transparent door	1SL0214A00
Uprights	1SL0285A00
Drilled panel 1 mod. + DIN rail	1SL0309A00 (x3)
Blank panel 1 mod.	1SL0326A00
Wiring kit 25x60 mm	1SL0355A00 (x2)
DIN rail	1SL0292A00
Module covers	12863



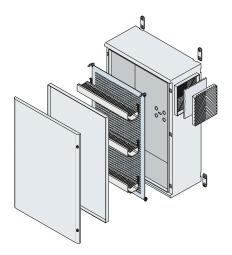
Automation	
Box + opaque door	1SL0204A00
Metal base plate	1SL0262A00
Inner door	1SL0254A00
Wiring duct	Check the ABB Library
Fix-O-Rapid	Check the ABB Library
Fixing on pole kit	1SL0345A00

# Gemini - Configurations examples

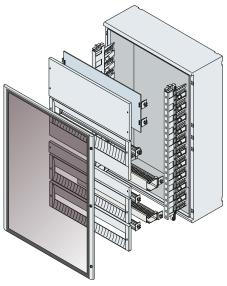


Size 5

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	

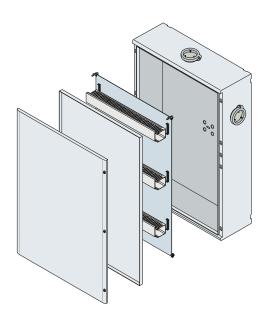


Automation	
Box + opaque door	1SL0205A00
Drilled base plate	1SL0279A00
Inner door	1SL0255A00
Wiring duct	Check the ABB Library
Fix-O-Rapid	Check the ABB Library
Wall-mounting brackets	1SL0342A00
Ventilation kit	1SL0350A00



Size 6

5120 0							
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	Check the ABB Library
Fix-O-Rapid	Check the ABB Library
Triangular lock	1SL0341A00 (x3)
Anti-condensation kit	1SL0351A00 (x3)

Gemini - Compliance with standards and technical characteristics

#### **Reference Standards**

Standard IEC 62208 ("Empty enclosures for low voltage switch-gear and control gear assemblies. General requirements"), that has implemented at an international level the Standard EN 50298, presently EN 62208, is the prescriptive reference for Gemini switchboards.

The object of Standard CEI EN 50298 is to formulate definitions, classifications, characteristics and test prescriptions for cases designed to be used as part of protection and operating equipment (switchboards) in compliance with the Standards of the EN 61439 series, that have a maximum rated voltage of 1000 V in alternating current for maximum frequencies of 1000 Hz or 1500 V in direct current and are suitable for general use in both internal and external applications.

The Standard applies to empty enclosures, before the user

has installed protection and operating devices inside them. The Standard does not apply to enclosures with structural and functional characteristics that make them subject to other prescriptions (e.g. cases for domestic installations and the like). In this case Standards IEC 60670 – CEI 23-48 ("General requirements for enclosures for accessories for household and similar fixed electrical installations") and CEI 23-49 ("Enclosures for accessories for household and similar fixed electrical installations. Part 2: particular requirements for enclosures for protection devices and accessories dissipating a considerable power in normal use") apply. On the basis of the indications of the ABB SACE technical characteristics' table, the installer may have to certify compliance with Standards CEI 23-51 – EN 61439 – CEI 17-13-1 ("Part 1: standard equipment subject)

Gemini - Compliance with standards and technical characteristics

#### Gemini switchboards features table

Size	1	2	3	4	5	6
Gemini with transparent door	1SL0211A00	1SL0212A00	1SL0213A00	1SL0214A00	1SL0215A00	1SL0216A00
Gemini with opaque door	1SL0201A00	1SL0202A00	1SL0203A00	1SL0204A00	1SL0205A00	1SL0206A00
External dimensions WxHxD (mm)	335x400x210	460x550x260	460x700x260	590x700x260	590x855x360	840x1005x360
Internal dimensions WxHxD (mm)	250x300x180	375x450x230	375x600x230	500x600x230	500x750x330	750x900x330
IP degree	IP66	IP66	IP66	IP66	IP66	IP66
Double isolation	Sì	Sì	Sì	Sì	Sì	Sì
IK degree	10	10	10	10	10	10
GWT (°C)	750	750	750	750	750	750
Operating temperature	-25 °C +100 °C					
No. of DIN modules	24 (12x2)	54 (18x3)	72 (18x4)	96 (24x4)	120 (24x5)	216 (36x6)
No. of vertical modules (H=150 mm)	2	3	4	4	5	6
Material	Thermoplastic	Thermoplastic	Thermoplastic	Thermoplastic	Thermoplastic	Thermoplastic
Color	Gray RAL7035					
Fast wiring system	Unifix L					
No. of locks	2	2	2	2	3	3
Rated frequency	50-60 Hz					
STANDARD CEI 23-51(1)						
- Max. dispersible power ⁽²⁾	45 W	72 W	85 W	102 W	156 W	248 W
STANDARD CEI EN 61439 Over-temperature (par. 8.2.1) ⁽³⁾						
- Max. dispersible power with over- temperature of 25 °C	40 W	65 W	77 W	91 W	133 W	205 W
- Max. dispersible power with over- temperature of 30 °C	45 W	72 W	85 W	102 W	156 W	248 W
- Max. dispersible power with over- temperature of 35 °C	52 W	85 W	100 W	121 W	187 W	299 W
- Max. dispersible power with over- temperature of 40 °C	62 W	100 W	118 W	143 W	221 W	355 W
Impulse withstand (par. 8.2.2)						
- Rated service voltage ⁽⁴⁾	≤ 800 V					
- Rated impulse withstand voltage	8 kV					

 $^{^{\}mbox{\tiny (1)}}$  Limits of applicability of the standard CEI 23-51

The standard may be applied only when the wired switchboard meets all the following conditions:

⁻ fixed installation with average ambient temperature up to 25 °C, occasionally up to 35 °C;

⁻ alternate current with rated voltage up to 440 V;

⁻ input rated current up to 125 A;

⁻ assumed short circuit rated current up to 10 kA or liming current devices protection with limited current up to 15 kA at their rated breaking capacity.

⁽²⁾ Maximum dissipation power data was obtained following the indications of Standard CEI 23-49, with a temperature difference of Dt=30 °C.

⁽³⁾ Note to paragraph 8.2.1 of Standard CEI EN 61439-1

The table gives the thermal dissipation values of Gemini switchboards when they are wall-mounted. The dispersible power figures (in Watts) vary according to the overtemperature allowed in the accessible parts of the switchboard and must be compared with the total amount of power dissipated by all the components installed inside the switchboard taking into due account the factor of contemporaneity.

⁽⁴⁾ Rated service voltage according to CEI EN 61439-1 1000V AC and 1500V DC

Gemini - IP degree of protection

As indicated in the following table, the IP degree of protection is expressed by two characteristic numbers depending on the behavior of the product to which it refers according to the prescriptions of CEI 70-1 and IEC 529 Standards.

With IP66 degree of protection, Gemini switchboards are totally protected against the penetration of dusts and sprays of seawater.

# First number: protection against the penetration of solid bodies

IP		
0		No protection
1	ø 50 mm	Protection against the penetration of solid bodies with a diameter of over 50 mm
2	ø 12 mm	Protection against the penetration of solid bodies with a diameter of over 12 mm or a length of over 80 mm
3	ø 2,5 mm	Protection against the penetrationof solid bodies with a diameter or thickness of over 2,5 mm
4	ø1mm	Protection against the penetration of solid bodies with a diameter or thickness of over 1,0 mm
5		Protection against the penetration of dusts
6		Total protection against the penetration of dusts

 $^{1^{\}rm st}$  number defined by Standards CEI 70-1 – IEC 60529

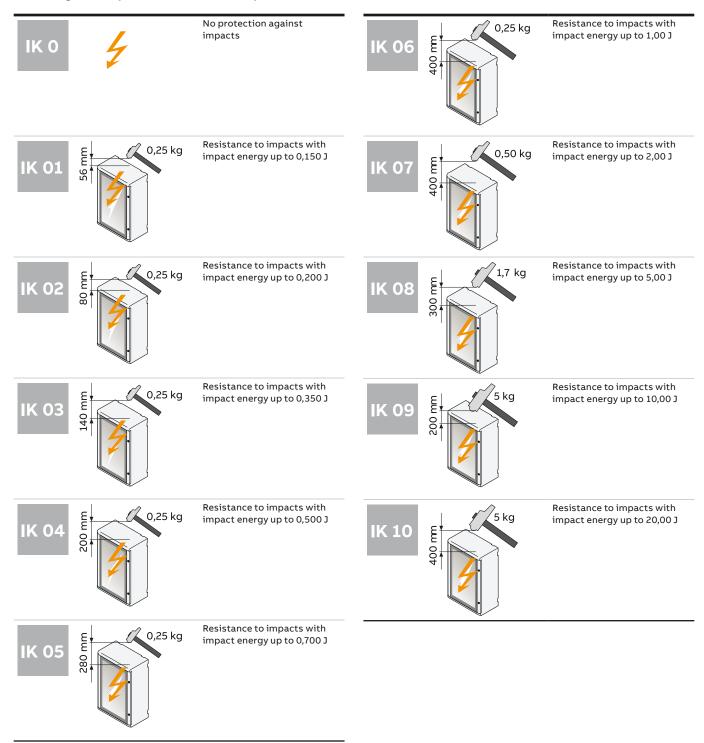
# Second number: protection against the penetration of water

ΙP		
0		No protection
1		Protection against the penetration of drops of water falling vertically
2	15	Protection against the penetration of drops of water falling at an angle of up to 15° from vertical
3	60	Protection against the penetration of drops of water falling at an angle of up to 60° from vertical
4	A second	Protection against the penetration of splashes of water from all directions
5		Protection against the penetration of water sprayed by a hose from all directions
6		Protection against the penetration of sea water
7	15 cm	Protection against the penetration of water during temporary immersion
8		Protection against the penetration of water during continual immersion

^{2&}lt;sup>nd</sup> number defined by Standards CEI 70-1 - IEC 60529.

Gemini - IK degree of resistance to impacts

### The IK degree is expressed in Joules in compliance with Standard CEI EN 50102.



Gemini - Double insulation and self-extinguishing tests

#### **Double insulation**

Double insulation guarantees that Gemini is protected against indirect contacts on condition that the manufacturer's instructions are observed when carrying out mounting

and wiring operations on the switchboard and that the appropriate accessories are used (e.g. screw-cover caps). Double insulation is indicated by the graphic symbol  $\ \Box$ 

#### Self-extinguishing tests

Test text	Equipment required	Compliance	Purpose	Test results	Test conditions				
		with Standards		of the test	Heat source	Test period	Characteristic elements		
Glow-wire test		IEC 695-2-1 CEI 50-11	To assess the danger of fire by simulating thermal stresses produced by heat sources or by ignition (e.g. glowing elements, resistances overloaded for short intervals)	If a flame is generated, it must go out within 30 seconds of removing the glow wire. The test is conducted at temperatures of: -650 °C -750 °C -850 °C -960 °C	Glow wire ø 4 mm	30 sec.	Assessment of the time it takes for the flame to go out		

Gemini - Resistance to chemical agents

#### Resistance to chemical agents

 $The \ behavior \ of \ Gemini \ switch boards \ in \ the \ presence \ of \ chemical \ agents \ is \ indicated \ in \ the \ table \ with \ the \ symbols:$ 

Cold water	
Hot water	
Sulfuric acid 50%	
Hydrochloric acid 36%	
Acetic acid 60%	
Benzol	<b>A</b>
Gasoline	<b>A</b>
Acetone	
Ethyl alcohol	
Ammonia	
Dichloromethane	<b>A</b>
Diesel oil - naphtha	<b>A</b>
Mineral oils and greases	
Food oils and greases	
Perchloroethylene	<b>A</b>
Trichlorethene	<b>A</b>
Ethylether	
Toluene	<b>A</b>
Methanol	
Wine	
Fruit juices	
Laundry lye	
Detergents	

Caption:
■ high resistance
▲ limited resistance

Gemini - Integration with ABB products

#### Installation of Tmax XT moulded-case circuit breakers

The table indicates the type of installation required for the different versions of Tmax XT moulded-case circuit breakers in Gemini switchboards.

Before carrying out wiring operations check compliance with Standards on the basis of the technical characteristics of the switchboard and circuit breaker (CEI EN 60439-1).

		XT1				XT2				хтз				XT4		'	
Size	Installation	3р	4p	3p D	4p D	3р	4p	3p D	4p D	3р	4p	3p D	4p D	3р	4p	3p D	4p D
1	D																
	01																
	Т																
2	D																
2	K1																
	K2																
	01																
	02																
	Т																
3	D																
	K1																
	K2																
	01																
	02																
	Т																
4	D																
	K1																
	K2																
	01																
	02																
	Т																
5	D																
	K1																
	K2																
	O1																
	02																
	Т																
6	D																
	K1																
	K2																
	01									•							
	02					•				•							
	Т																

- 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

### Gemini - Disposal instructions

# Information about how to dispose of Gemini switchboards when they reach the end of their life

Instructions are given below about the procedures to adopt when disposing of Gemini switchboards at the end of their life cycle.

The text is drafted in the form of a table referring to Standard CEI 308-1 "Information table concerning the end of life of electric and electronic products and a compilation guide", 2002-04, ed. 1, pamphlet number 308-1 6454.

#### Section I - Global product specification

Name	Type of product			
Size	With transparent door	With opaque door	Rated weight (kg)	External dimensions WxHxD (mm)
1	1SL0211A00	1SL0201A00	4,3	335x400x210
2	1SL0212A00	1SL0202A00	7,9	460x550x260
3	1SL0213A00	1SL0203A00	9,5	460x700x260
4	1SL0214A00	1SL0204A00	12,0	590x700x260
5	1SL0215A00	1SL0205A00	17,8	590x855x360
6	1SL0216A00	1SL0206A00	21,1	840x1005x360

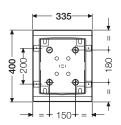
#### Section II - Global product table

General code: CER 17 02 03 plastic (more than 95% of the product's weight)

P2/ROOF  P3/DOOR  P4/ACCESSORIES  P5/ACCESSORIES  P2/ROOF  Polycarbonate  No  >PP<  No  >PC<  No  >PC<  No  >POlycarbonate  No  >PC<  No  >PC<  No  >PC<  No  >PC<  No  >PC  >PC  No  >PC  No  >PC  >PC  No   The PC  PC  No  The PC  PC  PC  PC  PC  PC  PC  PC  PC  PC	Part (P1, P2 ecc.)/ Component number	Diagram	Quantity % over total weight	Material description	Symbol	Dangerousness (Yes/No)	CER code
P3/DOOR  P4/ACCESSORIES  P3/DOOR  P3/DOOR  P3/DOOR  P3/DOOR	P1/BOX		~ 80%	Polypropylene	>PP<	No	17 02 03
P3/DOOR ~ 20% Steel No :  P4/ACCESSORIES	P2/ROOF			Polycarbonate	>PP<	No	17 02 03
P3/DOOR	P3/DOOR		~ 20%	Steel	>PC<	No	17 04 05
	P4/ACCESSORIES		< 5%	Brass	-	No	17 04 01
P5/ACCESSORIES P1/BOX < 5% Polypropylene - No :	P5/ACCESSORIES	— P3/DOOR P1/BOX	< 5%	Polypropylene	-	No	17 02 03

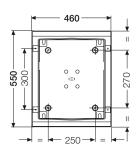
Gemini - Overall Dimensions - Basic configuration

#### Front view



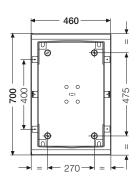
Size 1

1SL0201A00 - 1SL0211A00 - 1SL0221A00



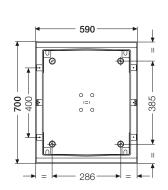
Size 2

1SL0202A00 - 1SL0212A00 - 1SL0222A00



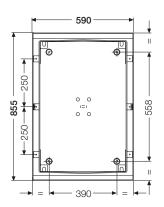
Size 3

1SL0203A00 - 1SL0213A00 - 1SL0223A00



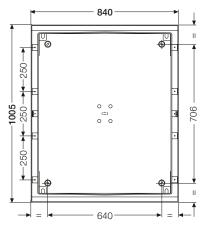
Size 4

1SL0204A00 - 1SL0214A00 - 1SL0224A00



Size 5

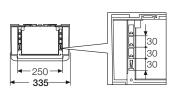
1SL0205A00 - 1SL0215A00 - 1SL0225A00



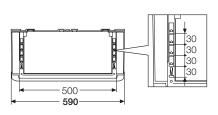
Size 6

1SL0206A00 - 1SL0216A00 - 1SL0226A00

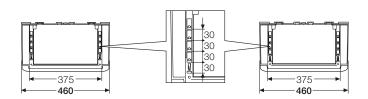
#### Top view



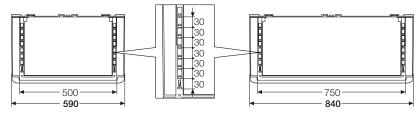
Size 1



Size 4



Size 2



Size 5

Size 6

Size 3

Gemini - Overall Dimensions – Basic configuration

Size 3

### 

Size 4

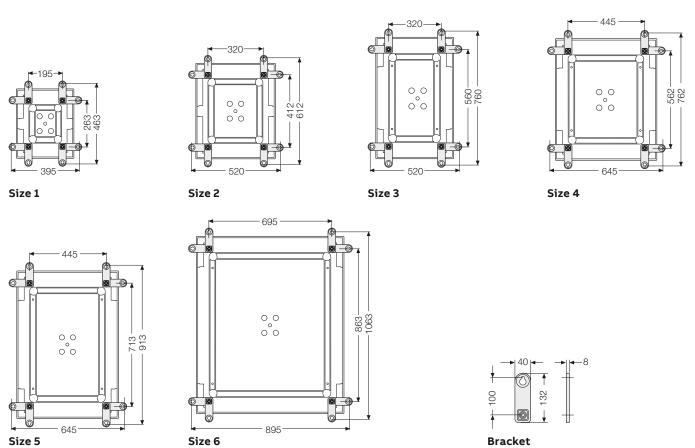
Size 5

Size 6

#### Installation with plastic brackets

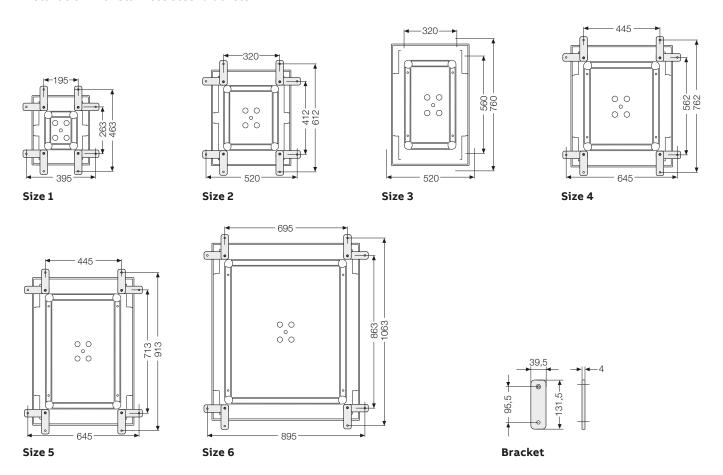
Size 2

Size 1

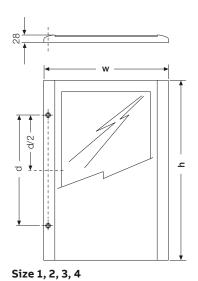


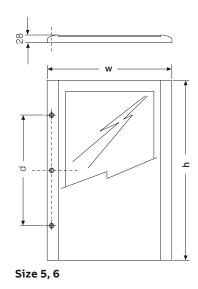
Gemini - Overall Dimensions – Basic configuration

#### Installation with stainless steel brackets



#### External opaque and transparent doors





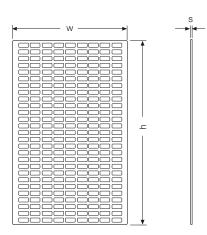
Size	w	h	Locks	d = lock distance
1	325	349	2	200
2	450	499	2	300
3	450	649	2	400
4	575	649	2	400
5	575	799	3	500
6	825	949	3	750

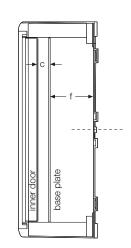
Measurements are expressed in millimeters.

Gemini - Overall Dimensions - Components for automation applications

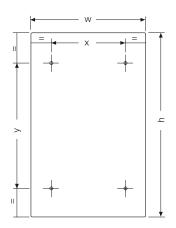
#### Base plate

#### Metal, drilled





#### Metal, blank and insulating



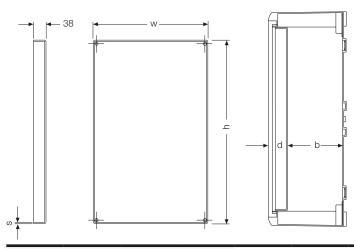
c = distance Size w Metal, blank Insulating f = base distance Distance of and drilled inner door the plate from the inner door MIN. MIN. MAX. MAX. 235 5 16,3 285 33,5 110 360 435 36,4 140 33,5 139 152,4 139 36,4 140 33,5 152,4 360 585 485 33,5 152,4 47 5 244 33,5 228 252,0 485 735 735 885 33,5 252,0

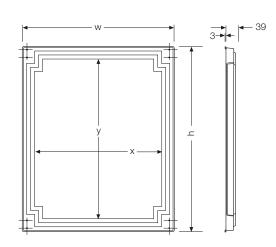
Drilling for base mounting with code 1SL0383A00

Size	x	у
1	_	_
2	337	248
3	337	398
4	462	398
5	462	548
6	711	698

The distance of the plate from the base and inner door depends on the installation point selected for mounting the plate on the box.

#### **Inner doors**



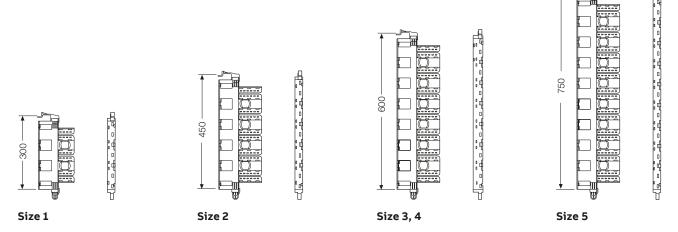


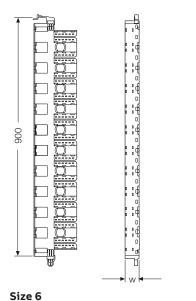
Size	w	h	s	Inner door	Inner door distance		У
				d = door	b = base		
1	250	300	3	63	128	245	295
2	375	450	4	63	177	365	435
3	375	600	4	63	177	215	435
4	500	600	4	63	177	340	440
5	500	750	4	63	277	340	590
6	750	900	4	63	277	585	735

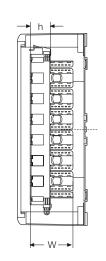
Measurements are expressed in millimeters.

Gemini - Overall Dimensions – Components for distribution and mixed applications

#### Uprights





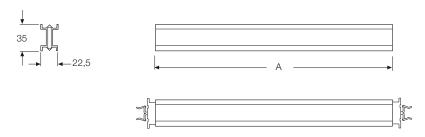


Upright		Duct	
Size	W	w	h
1	132	18	46
2	152	27	46
3	152	27	46
4	152	27	46
5	152	36	46
6	152	55	46

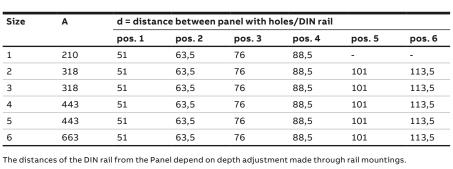
0.200

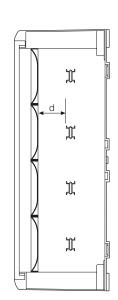
Gemini - Overall Dimensions - Components for distribution and mixed applications

#### DIN rails



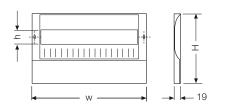
Size	Α	d = dista	d = distance between panel with holes/DIN rail								
		pos. 1	pos. 2	pos. 3	pos. 4	pos. 5	pos. 6				
1	210	51	63,5	76	88,5	-	-				
2	318	51	63,5	76	88,5	101	113,5				
3	318	51	63,5	76	88,5	101	113,5				
4	443	51	63,5	76	88,5	101	113,5				
5	443	51	63,5	76	88,5	101	113,5				
6	663	51	63,5	76	88,5	101	113,5				



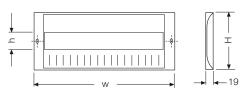


#### **Drilled panels**

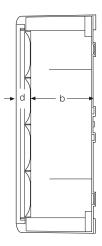
#### 1 + 1/2 module



#### 1 module



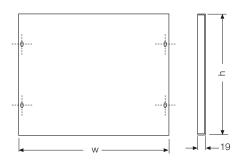
Drilled panel	1 mod.		1+1/2 mo	d.	Window		Panel dis	tance
Size	w	Н	w	Н	h	module	d = door	b = base
1	250	150	-	-	46	12	44	145
2	375	150	375	225	46	18	44	197
3	375	150	375	225	46	18	44	197
4	500	150	500	225	46	24	44	197
5	500	150	500	225	46	24	44	297
6	750	150	750	225	46	36	44	297



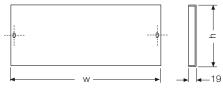
Gemini - Overall Dimensions – Components for distribution and mixed applications

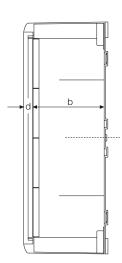
#### Blank panels

#### Blank panel 2 modules



#### Blank panel 1 module





#### Blank panel 1/2 module



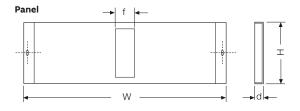
Size	1/2 mo	d.	1 mod.		2 mod.	2 mod.		Panel distance	
	w	h	w	h	w	h	d = door	b = base	
1	250	75	250	150	250	300	26,5	162	
2	375	75	375	150	375	300	26,5	214	
3	375	75	375	150	375	300	26,5	214	
4	500	75	500	150	500	300	26,5	214	
5	500	75	500	150	500	300	26,5	314	
6	750	75	750	150	750	300	26,5	314	

Gemini - Overall Dimensions – Components for distribution and mixed applications

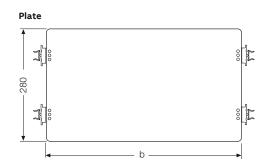
#### Kit for Tmax

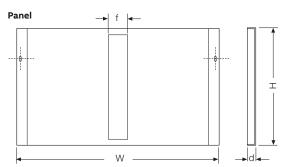
#### Kit H 150

Plate



#### Kit H 300





kit for Tmax H 150 (available for sizes 2-6)

Size	W	Н	d	f	b
2	375	150	19	46	318
3	375	150	19	46	318
4	500	150	19	46	443
5	500	150	19	46	443
6	750	150	19	46	663

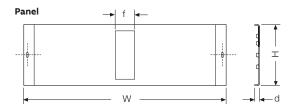
kit for Tmax H 300 (available for sizes 2-6)

W	Н	d	f	b
375	300	19	46	318
375	300	19	46	318
500	300	19	46	443
500	300	19	46	443
750	300	19	46	663
	375 375 500 500	375 300 375 300 500 300 500 300	375 300 19 375 300 19 500 300 19 500 300 19	375     300     19     46       375     300     19     46       500     300     19     46       500     300     19     46

Gemini - Overall Dimensions – Components for distribution and mixed applications

#### Kit for Tmax XT

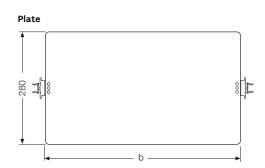
#### Kit H 150

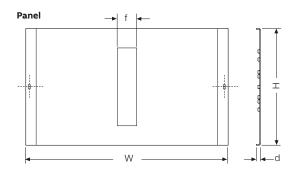


#### kit for Tmax XT H 150 (available for sizes 2-6)

Size	W	Н	d	f	b
2	375	150	10	46	318
3	375	150	10	46	318
4	500	150	10	46	443
5	500	150	10	46	443
6	750	150	10	46	663

#### Kit H 300



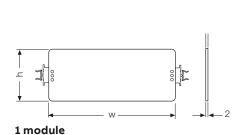


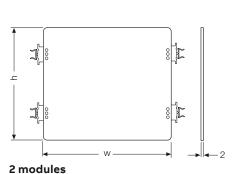
kit for Tmax XT H 300 (available for sizes 2-6)

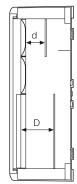
Size	W	н	d	f	b
2	375	300	10	46	318
3	375	300	10	46	318
4	500	300	10	46	443
5	500	300	10	46	443
6	750	300	10	46	663

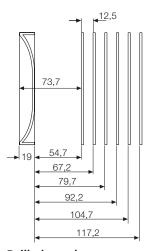
Gemini - Overall Dimensions – Components for distribution and mixed applications

#### Modular plates

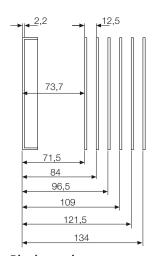












Blank panel

Size	1 modu	le	2 modules		
	w	h	w	h	
1	210	130	-	-	
2	318	130	318	280	
3	318	130	318	280	
4	443	130	443	280	
5	443	130	443	280	
6	663	130	663	280	

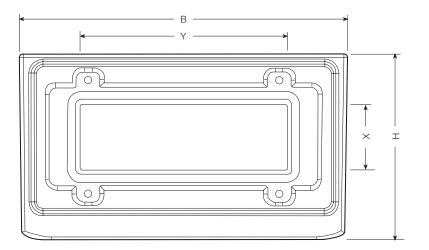
D = dis	D = distance blank panel/plate								
pos. 1	pos. 2	pos. 3	pos. 4	pos. 5	pos. 6				
71,5	84	96,5	109	-	-				
71,5	84	96,5	109	121,5	134				
71,5	84	96,5	109	121,5	134				
71,5	84	96,5	109	121,5	134				
71,5	84	96,5	109	121,5	134				
71,5	84	96,5	109	121,5	134				

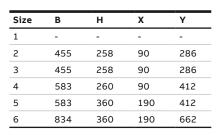
d = distance drilled panel/plate									
pos. 1	pos. 2	pos. 3	pos. 4	pos. 5	pos. 6				
54,7	67,2	79,7	92,2	-	-				
54,7	67,2	79,7	92,2	104,7	117,2				
54,7	67,2	79,7	92,2	104,7	117,2				
54,7	67,2	79,7	92,2	104,7	117,2				
54,7	67,2	79,7	92,2	104,7	117,2				
54,7	67,2	79,7	92,2	104,7	117,2				

The distance of the panels from the modular plates depends on the depth at which the DIN rail is regulated by using fixing devices.

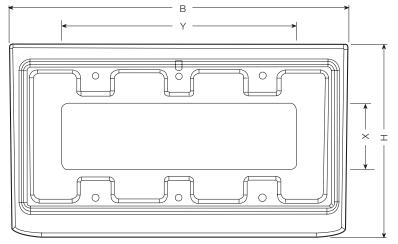
Gemini - Overall Dimensions – Components for distribution and mixed applications

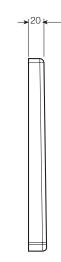
#### Coupling kit





#### Bottom base H 30





**4**204

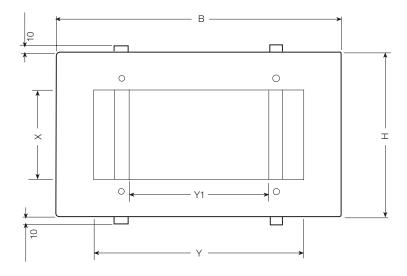
Size	В	н	Х	Υ
1	-	-	-	-
2	458	260	91	316
3	458	260	91	316
4	583	260	91	440
5	590	366	164	400
6	840	366	164	640

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## General purpose enclosures technical details

Gemini - Overall Dimensions – Components for distribution and mixed applications

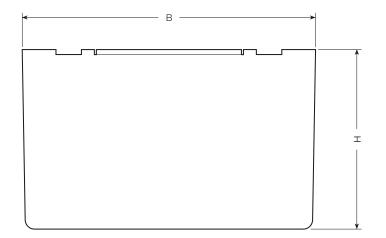
#### Fixed frame





Size	В	Н	Χ	Υ	Y1
1	-	-	-	-	-
2	415	240	130	305	205
3	415	240	130	305	205
4	540	240	130	430	330
5	584	330	210	480	280
6	834	330	210	730	530

#### Integral cover





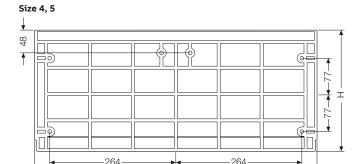
Size	В	Н
1	347	238
2	472	289
3	472	289
4	600	289
5	604	390
6	854	390

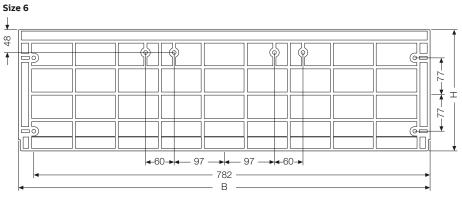
Gemini - Overall Dimensions – Components for distribution and mixed applications

#### Pedestal

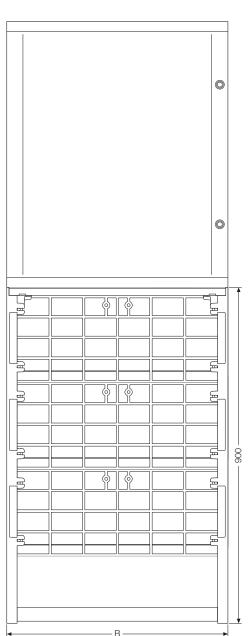
#### Front view





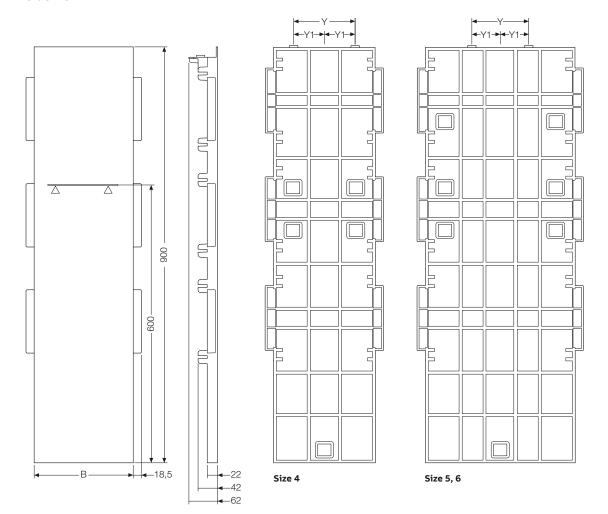


Size	В	Н	s
4	592	254	28
5	592	254	28
6	846	254	28



Gemini - Overall Dimensions – Components for distribution and mixed applications

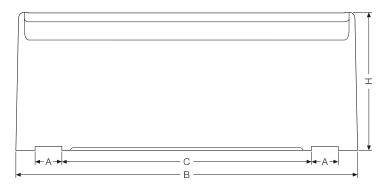
#### Side view

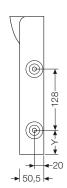


Size	В	Υ	Y1
4	213	130	65
5	313	120	60
6	313	120	60

Gemini - Overall Dimensions – Components for distribution and mixed applications

#### Horizonal Gemini kit



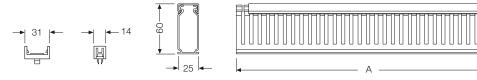


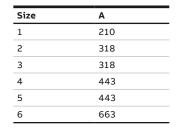


Size	Α	В	С	Н	Υ	D	E	
3	56	715,6	523	288	51	692	696	
4	56	715,6	523	288	51	692	696	
5	60	870	660	388	151	844	848	
6	60	1021	810	388	153	994	998	

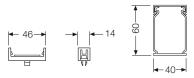
#### Wiring kit

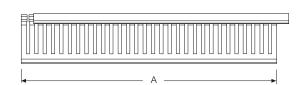
Duct 25x60 mm





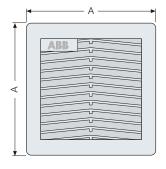






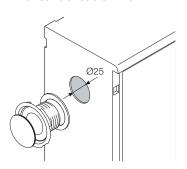
Gemini - Overall Dimensions – Components for distribution and mixed applications

#### Ventilation kit

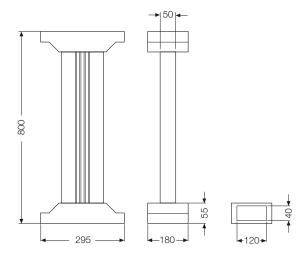


Code	Α
EN0105K	105
EN0150K	150
EN0204K	204

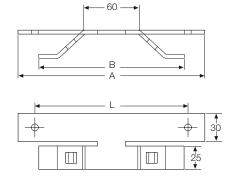
#### Anti-condensation kit



#### Floor pedesta



#### Pole installation kit



Size	Α	В	L
1	232	206	196
2	358	332	320
3	358	332	320
4	483	457	447
5	483	457	447
6	733	707	697

Note: minimum pole section = 150 mm

09

SR2

# **SR2** Index

#### SR2

General characteristics of SR2 Enclosures	232
Selection table	235
Ordering codes	236
Standardised RAL colours (on request)	251
Ordering codes	252
Overall dimensions - Drillings	253
Overall dimensions - Casse	254

## 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 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 251).

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 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.

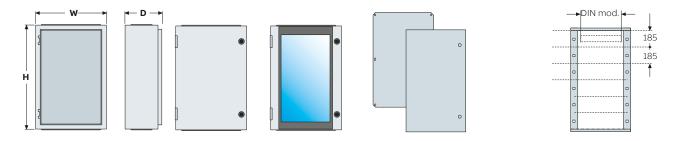


The bars, made of electrolytic copper with M6 threaded holes in 25 mm, can be mounted on mounting plates using the appropriate supports.

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		CUL US LISTED EX II 3 G D		
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%		

## SR2 - Selection table

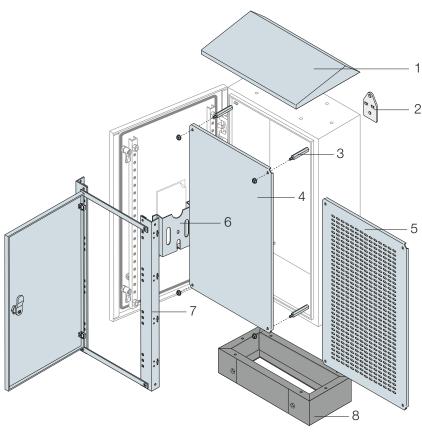
#### Quick selection table



Overall dimensions			Enclosures	Enclosures		Kit for automation		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	

 $[\]ensuremath{^{\star}}$  The mounting plate must be ordered separately.

## SR2 - Ordering codes

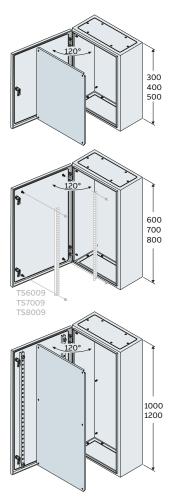


- 2
- 1 Spray protection roof
- 2 Wall-mounting brackets
- 3 Spacers for back plates
- 4 -Blind internal plate
- 5 Slotted internal plate
- 6 Document pocket
- 7 Counterdoor
- 8 Plinth
- 9 Frame for DIN rail
- 10 Modular panels for apparateus
- 11 DIN rail
- 12 Blind modular panels
- 13 Modular panel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

SR2 - Ordering codes

#### 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.

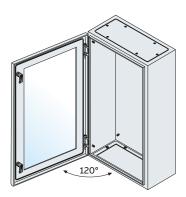


Enclosures with blind door (internal plate included)					
	ons (mm)			Package/ No. of pieces	
Н	W	D	Code	No. of pieces	
300 (1)	200	150	SRN3215K	1/1	
	300	150	SRN3315K	1/1	
	400	150	SRN3415K	1/1	
400 (1)	300	150	SRN4315K	1/1	
	300	200	SRN4320K	1/1	
	400	200	SRN4420K	1/1	
	600	200	SRN4620K	1/1	
500 (1)	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 .

## SR2 - Ordering codes



#### **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:

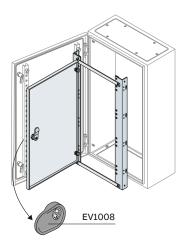
• KD... (Distribution Kit) consisting of a pair of functional uprights for assembly of the modular panels (to be ordered separately) and of any compensation panel.

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.

Enclosu	Enclosures with glazed door					
Dimensi	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		

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

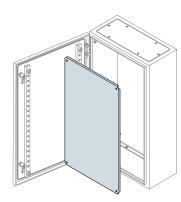
## SR2 - Ordering codes



#### 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.

Blind counterdoor				
Dimensions (mm)			Package/	
н	w	Code	No. of pieces	
500	400	KC5040K	1/1	
600	400	KC6040K	1/1	
700	500	KC7050K	1/1	
800	600	KC8060K	1/1	
1000	600	KC1060K	1/1	
1000	800	KC1080K	1/1	
1200	600	KC1260K	1/1	
1200	800	KC1280K	1/1	

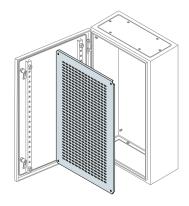


#### Blind internal mounting plate

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)			Package,	
н	W Code		No. of pieces	
300	200	PF3020	1/1	
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	

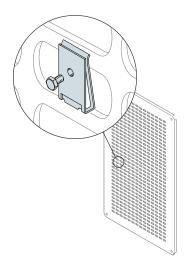
## SR2 - Ordering codes



#### 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).

Back plate for enclosure				
Dimensions (mm) W H		Code	Package, No. of pieces	
<b>W</b> 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	



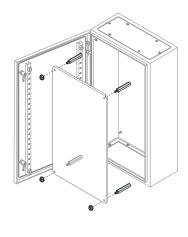
#### Clip nuts

For slotted plates with M6x10mm hexagonal head screws.

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

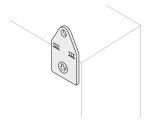
#### Spacer Kit for adjusting the depth of the back plates

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

## SR2 - Ordering codes



#### 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.

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



#### Accessories for stacking

Dimensions (mm)			Package	
w	D	Code	No. of 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	

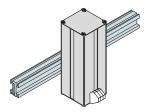


#### Plinth

Steel plinth 25/10 thick grey RAL7012 color.

Plinth						
Dimensions (mm)				Package/		
w	D H		Code	No. of 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		

#### SR2 - Ordering codes



#### 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)		s	_	Package/ No. of
Description	Н	W	W 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  $\Delta T$  difference between the inner and outer temperature and the k coefficient of heat exchange relative to the material of the enclosure:

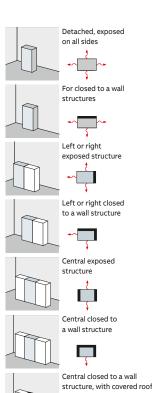
 $P = k * \Delta T * S$ 

k = 5,5 for painted steel

 $\Delta T = T1-T2;$ 

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

T2 = minimum ambient temperature.



SR2 - Ordering codes

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

Calculating the enclosure surface S (mm²)	Dimensions (m)	
S = 1,8 x H x (L+P) + 1,4 x L x P	L = width	
S = 1,4 x L x (H+P) + 1,8 x P x H	H = height P = depth	
S = 1,4 x P x (H+L) + 1,8 x L x H	— <b>г - </b> аериі — —	
S = 1,4 x H x (P+L) + 1,4 x L x P		
S = 1,8 x L x H + 1,4 x L x P + P x H		
S = 1,4 x L x (H+P) + P x H		
S = 1,4 x L x H + 0,7 x L x P + P x H		
	S = 1,8 x H x (L+P) + 1,4 x L x P S = 1,4 x L x (H+P) + 1,8 x P x H S = 1,4 x P x (H+L) + 1,8 x L x H S = 1,4 x H x (P+L) + 1,4 x L x P S = 1,8 x L x H + 1,4 x L x P + P x H S = 1,4 x L x (H+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;  $\Delta T = (25-20) = 5$  °C; S = 1.4m²

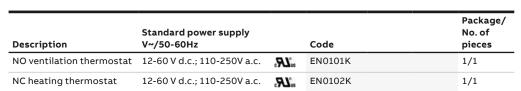
The total power dissipation P obtained will be:  $P = k * \Delta T * S = 38,5 W$ 

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.



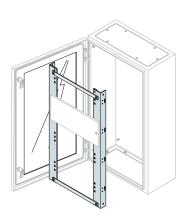
	Standard power supply		apacity	Temperature	Type of	
Code	V~/50-60Hz	$Load\Omega$	Load L	scale	contact	Weight
EN0101K	12-60 V d.c.; 110-250V a.c.	10A	2A	-10 +80 °C	NO	54g
EN0102K	12-60 V d.c.; 110-250V a.c.	10A	2A	-10 +80 °C	NC	54g

#### Frame for DIN rail

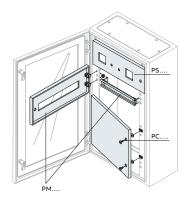
Internal supports for fixing modular panels and DIN rails, colour RAL 7035 orange peel.

	Dimensions (mm)			Package, No. of
Description	Н	W	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





SR2 - Ordering codes



#### 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

	Dimen	sions (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

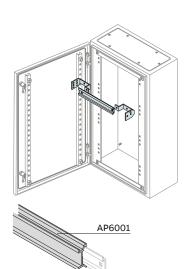
	Dimens	ions (mm)		Package/
Description	н	W	Code	No. of pieces
Blind panel	185	400	PC1406K	1/1
Blind panel	185	600	PC1606K	1/1
Blind panel	185	800	PC1806K	1/1
Blind panel	370	600	PC2606K	1/1
Blind panel	370	800	PC2806K	1/1

#### 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 T W=600mm	1-T2-T3-XT1	L-XT3	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



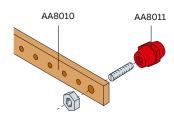
### SR2 - Ordering codes



#### Door anti-closure device

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

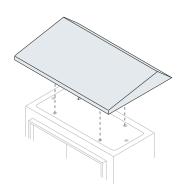
Description	Code	Package/ No. of pieces
Door anti-closure device	EV0015	1/4



#### **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



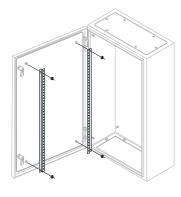
#### Spray protection roofs

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 (mm)			Package	
W	D	Code	No. of pieces	
200	150	TT2015K	1/1	
300	150	TT3015K	1/1	
400	150	TT4015K	1/1	
300	200	TT3020K	1/1	
400	200	TT4020K	1/1	
500	200	TT5020K	1/1	
600	200	TT6020K	1/1	
400	250	TT4025K	1/1	
500	250	TT5025K	1/1	
600	250	TT6025K	1/1	
600	300	TT6030K	1/1	
800	300	TT8030K	1/1	



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

### SR2 - Ordering codes



AA8001

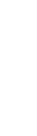


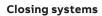


AA8003



EV1008





These can replace the standard closures of the external doors.

The inserts are interchangeable and easily replaced by loosening a single nut.

Description	Code	Package, No. of 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.

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



## **Accessories for DIN panel**

Hole covering strip RAL7035 colour

		Package/ No. of
Description	Code	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

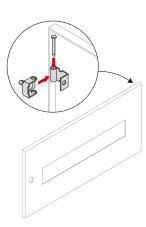


## SR2 - Ordering codes









Closing plug for	instrument	holder	panels
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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

Description	Dimensions (mm) W	Code	Package/ No. of 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

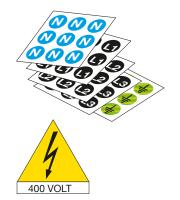
Description	No. of DIN mod.	Code	Package/ No. of pieces
No. 288 labels 1 DIN mod.	1	AD1101	1/288
No. 192 labels 2 DIN mod.	2	AD1102	1/192
No. 96 labels 3 DIN mod.	3	AD1103	1/96
No. 96 labels 4 DIN mod.	4	AD1104	1/96

#### 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.

## SR2 - Ordering codes



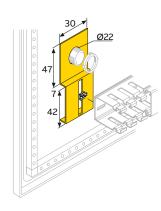
#### Marking

Description	Code	Package/ No. of 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

SR2 - Ordering codes

#### Spare parts

		Package/ No. of
Description	Code	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

#### SR2 - Ordering codes



#### **Painting Special Service**

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.

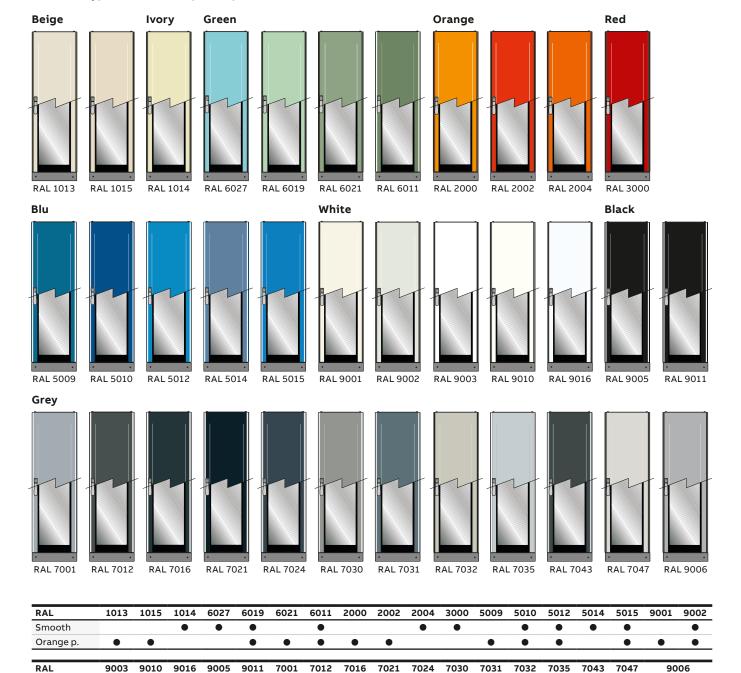
If the offer is accepted and after having received it, it will be possible to place the order with the codes indicated in the offer, that will not be SRN...SPEC, but dummy ones:

Always remember to indicate the offer reference in the order.

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

SR2 - 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).



Other types of colours are available on request.

#### Corrosion test in saline mist

Smooth

(Ref. Standard UNI ISO 9227, CEI50-5/4, IEC 60068-2-30)

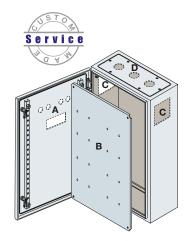
Treatment time (hours)	24	48	72	96	120	144	168	192
Rust penetration	no	no	no	no	no	no	no	193(1)
Blistering	no	no	no	no	no	no	no	no

•

•

⁽II) 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.

#### SR2 - Ordering codes



#### **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.

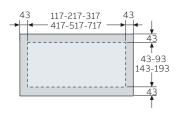
If the offer is accepted and after having received it, it will be possible to place the order with the codes indicated in the offer, that will not be SRN...SPEC, but dummy ones. Always remember to indicate the offer reference in the order.

### SR2 - Overall Dimensions - Drillings

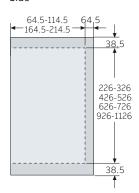
### **Drillings SR2**

Maximum useful overall dimensions for the drillings.

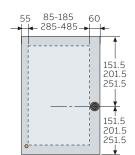




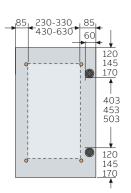
#### Side



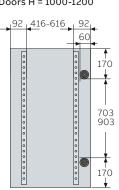
Doors H = 300-400-500



Doors H = 600-700-800

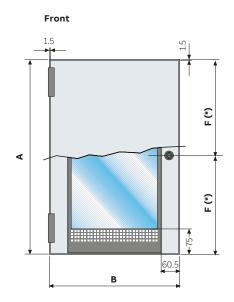


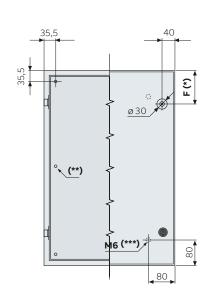
Doors H = 1000-1200

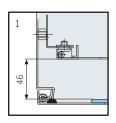


### SR2 - Overall Dimensions - Casse

#### **Basic version**







#### (*) Locks (F) n°1 central for enclosures from h = 303 to 503 mm n°2 for enclosures from h = 603 to 703 mm (F = 100 mm) $n^{\circ}2$ for enclosures from h = 803 to 1 203 mm (F = 150 mm)

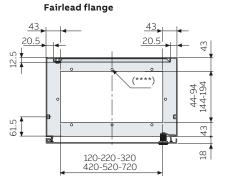
(**) Copper plated nut on the rear only for enclosures from h = 1 003 to 1 203 mm

#### (***) Copper plated nut on door $n^{\circ}$ 1 for enclosures from h = 303 to 503 mm n° 4 for enclosures from h = 603 to 803 mm n° 6 for enclosures from h = 1 003 to 1 203 mm

### (****) Flange fixing holes n° 4 for enclosures from I = 203mm

n° 6 for enclosures from I = 303 to 403 mm n° 8 for enclosures from I = 503 to 1 203 mm

## Modular panels and inner door ш



Code	Α	В	С	D	E	F (*)	G	Н	ı	L
SRN3215K	303	203	147	82	133,5	151,5	163	337	237	263
SRN3315K	303	303	147	82	133,5	151,5	263	337	337	263
SRN3415K	303	403	147	82	133,5	151,5	363	337	437	263
SRN4315K	403	303	147	82	133,5	201,5	263	437	337	363
SRN4320K	403	303	197	132	183,5	201,5	263	437	337	363
SRN4420K	403	403	197	132	183,5	201,5	363	437	437	363
SRN4620K	403	603	197	132	183,5	201,5	563	437	637	363
SRN5320K	503	303	197	132	183,5	251,5	263	537	337	463
SRN5420K	503	403	197	132	183,5	251,5	363	537	437	463
SRN5425K	503	403	247	182	233,5	251,5	363	537	437	463
SRN6420K	603	403	197	132	183,5	100	363	637	437	563
SRN6425K	603	403	247	182	233,5	100	363	637	437	563
SRN6625K	603	603	247	182	233,5	100	563	637	637	563
SRN7520K	703	503	197	132	183,5	100	463	737	537	663
SRN7525K	703	503	247	182	233,5	100	463	737	537	663
SRN8625K	803	603	247	182	233,5	150	563	837	637	763
SRN8630K	803	603	297	232	283,5	150	563	837	637	763
SRN8830K	803	803	297	232	283,5	150	763	837	837	763

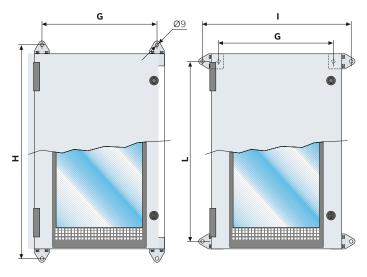
Code	Α	В	С	D	E	F (*)	G	Н	I	L
SRN10625K	1003	603	247	182	233,5	150	563	1037	637	963
SRN10630K	1003	603	297	232	283,5	150	563	1037	637	963
SRN10830K	1003	803	297	232	283,5	150	763	1037	837	963
SRN12630K	1203	603	297	232	283,5	150	563	1237	637	1163
SRN12830K	1203	803	297	232	283,5	150	763	1237	837	1163
SRN5420VK	503	403	197	132	183,5	150	363	537	437	463
SRN5425VK	503	403	247	182	233,5	150	363	537	437	463
SRN6420VK	603	403	197	132	183,5	150	363	637	437	563
SRN6425VK	603	403	247	182	233,5	150	363	637	437	563
SRN7520VK	703	503	197	132	183,5	150	463	737	537	663
SRN7525VK	703	503	247	182	233,5	150	463	737	537	663
SRN8625VK	803	603	247	182	233,5	150	563	837	637	763
SRN8630VK	803	603	297	232	283,5	150	563	837	637	763
SRN10625VK	1003	603	247	182	233,5	150	563	1037	637	963
SRN10630VK	1003	603	297	232	283,5	150	563	1037	637	963
SRN10830VK	1003	803	297	232	283,5	150	763	1037	837	963
SRN12630VK	1203	603	297	232	283,5	150	563	1237	637	1163
SRN12830VK	1203	803	297	232	283,5	150	763	1237	837	1163

#### _

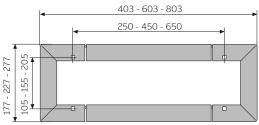
### General purpose enclosures technical details

### SR2 - Overall Dimensions - Casse

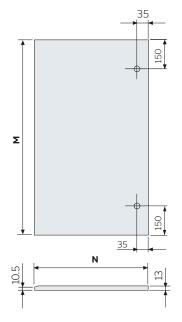
### Centre distances for wall fixing



### Centre distances for plinth fixing



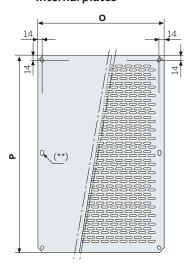
#### Internal counterdoors



Code	М	N	
KC5040K *	456	360	
KC6040K*	556	360	
KC7050K *	656	460	
KC8060K	756	560	
KC1060K	956	560	
KC1080K	956	760	
KC1260K	1156	560	
KC1280K	1156	760	

 $^{^{\}star}$  The counterdoors with H 500 mm, 600 mm and 700 mm, only have one hole in the centre for the lock

### Internal plates



Code	0	P
PF3020	160	260
PF3030	260	260
PF3040 - PF4030	360	260
PF4040	360	360
PF5030	260	460
PF5040	360	460
PF6040 - PF4060	360	560
PF6060	560	560
PF7050	460	660
PF8060	560	760
PF8080	760	760
PF1060	560	960
PF1080	760	960
PF1260	560	1160
PF1280	760	1160

10

SRX

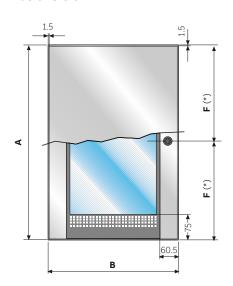
### **SRX** Index

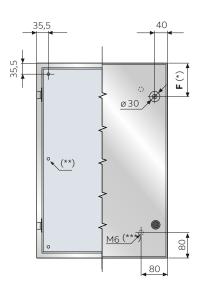
### SRX

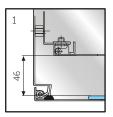
Overall dimensions	258
Enclosures	260
General characteristics and applications	262
Selection of the structure	264
Ordering codes	265
Overall dimensions - Drillings	275

### SRX - Overall Dimensions

#### **Basic version**





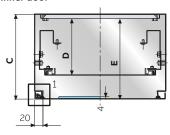


(*) Locks (F)
1 central for enclosures from
h=303 to 503 mm
2 for enclosures from
h=603 to 703 mm (F=100mm)
2 for enclosures
from h=803 to 1203 mm (F=150mm)

(**) Copper plated nut on the rear only for enclosures from h=1003 to 1203 mm

(***) Copper plated nut on door 1 for enclosures from h=303 to 503 mm 4 for enclosures from h=603 to 803 mm 6 for enclosures from h=1003 to 1203 mm

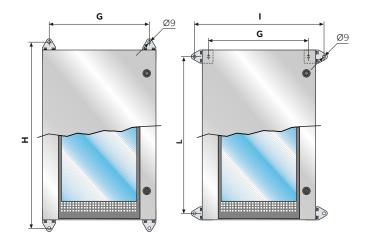
### Modular panels and inner door



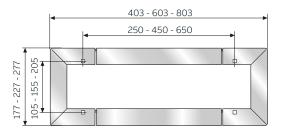
Code	Α	В	С	D	Е	F (*)	G	Н	I	L
SRN3215X	303	203	147	82	133,5	151,5	163	337	237	263
SRN3415X	303	403	147	82	133,5	151,5	363	337	437	263
SRN4315X	403	303	147	82	133,5	201,5	263	437	337	363
SRN4320X	403	303	197	132	183,5	201,5	263	437	337	363
SRN4420X	403	403	197	132	183,5	201,5	363	437	437	363
SRN4620X	403	603	197	132	183,5	201,5	563	437	637	363
SRN5420X - SRN5420VX	503	403	197	132	183,5	251,5	363	537	437	463
SRN5520X	503	503	197	132	183,5	251,5	363	537	437	463
SRN6420X - SRN6420VX	603	403	197	132	183,5	100	363	637	437	563
SRN6620X	603	603	197	132	183,5	100	363	637	437	563
SRN6630X	603	603	297	232	283,5	100	363	637	437	563
SRN7525X - SRN7525VX	703	503	247	182	233,5	100	463	737	537	663
SRN8620X	803	603	197	132	183,5	150	363	637	437	563
SRN8625VX	803	603	247	182	233,5	150	563	837	637	763
SRN8630X	803	603	297	232	283,5	150	563	837	637	763
SRN8830X	803	803	297	232	283,5	150	763	837	837	763
SRN10830X - SRN10830VX	1003	803	297	232	283,5	150	763	1037	837	963
SRN12630X	1203	603	297	232	283,5	150	563	1237	637	1163
SRN12830X	1203	803	297	232	283,5	150	763	1237	837	1163

### SRX - Overall Dimensions

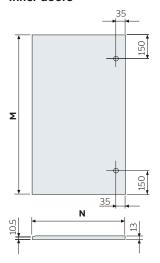
### Centre distances for wall-mounting



### Centre distances for plinth fixing



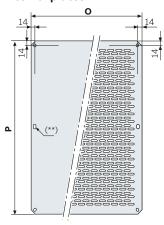
#### **Inner doors**



Code	М	N
KC5040X*	456	360
KC6040X*	556	360
KC7050X*	656	460
KC8060X	756	560
KC1080X	956	760

 $^{^{\}star}$  Inner doors with H 500mm, 600mm, 700mm only have one hole in the centre for the lock

### Internal plates



Code	0	Р
PF3020	160	260
PF3030	260	260
PF3040 - PF4030	360	260
PF4040	360	360
PF5030	260	460
PF5040	360	460
PF5050	460	460
PF6040 - PF4060	360	560
PF6060	560	560
PF7050	460	660
PF8060	560	760
PF8080	760	760
PF1060	560	960
PF1080	760	960
PF1260	560	1160
PF1280	760	1160

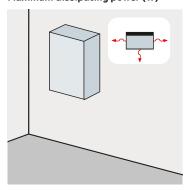
SRX - enclosures

### Dissipating power

SR enclosures

Dissipating power inside the SR enclosures according to the permissible overtemperature (external temperature plus overtemperature =  $60 \, ^{\circ}\text{C}$  max).

### Maximum dissipating power (W)



Wall-mounted single enclosure

		Dimension	s		Overtempera	ture values ΔT	
Code	H (mm)	W (mm)	D (mm)	25 °C	30 °C	35 °C	40 °C
SRN3215K	300	200	150	18	22	26	31
5RN3215K 5RN3315K	300	300	150	23	29	35	42
SRN3415K	300	400	150	34	42	51	60
SRN4315K	400	300	150	30	37	45	53
SRN4315K SRN4320K	400	300	200	33	42	51	60
		400	200	42	52	63	74
SRN4420K	400						
SRN4620K	400	600	200	59	74	89	105
SRN5320K	500	300	200	39	49	59	69
SRN5420K	500	400	200	47	59	72	85
SRN5420VK	500	400	200	47	59	72	85
SRN5425K	500	400	250	52	66	79	94
SRN5425VK	500	400	250	52	66	79	94
SRN6420K	600	400	200	54	67	82	96
SRN6420VK	600	400	200	54	67	82	96
SRN6425K	600	400	250	59	74	89	105
SRN6425VK	600	400	250	59	74	89	105
SRN6625K	600	600	250	79	99	120	141
SRN7520K	700	500	200	68	86	104	122
SRN7520VK	700	500	200	68	86	104	122
SRN7525K	700	500	250	74	93	113	133
SRN7525VK	700	500	250	74	93	113	133
SRN8625K	800	600	250	94	118	143	169
SRN8625VK	800	600	250	94	118	143	169
SRN8630K	800	600	300	107	134	162	191
SRN8630VK	800	600	300	107	134	162	191
SRN8830K	800	800	300	114	142	173	204
SRN10625K	1000	600	250	95	118	143	169
SRN10625VK	1000	600	250	95	118	143	169
SRN10630K	1000	600	300	103	130	156	185
SRN10630VK	1000	600	300	103	130	156	185
SRN10830K	1000	800	300	142	178	215	254
SRN10830VK	1000	800	300	142	178	215	254
SRN12630K	1200	600	300	123	155	187	220
SRN12630VK	1200	600	300	123	155	187	220
SRN12830K	1200	800	300	168	210	255	300
SRN12830VK	1200	800	300	168	210	255	300

Values also valid for the versions with glazed door.

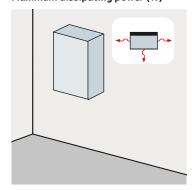
SRX - enclosures

### **Dissipating power**

SRX enclosures

Dissipating power inside the SRX enclosures according to the permissible overtemperature (external temperature plus overtemperature =  $60 \, ^{\circ}\text{C}$  max).

### Maximum dissipating power (W)



Wall-mounted single enclosure

		Dimension	5		Overtempera	ture values ΔT	
Code	H (mm)	W (mm)	D (mm)	25 °C	30 °C	35 °C	40 °C
SRN3215X	300	200	150	29	35	42	50
SRN3415X	300	400	150	55	68	82	97
SRN4315X	400	300	150	48	60	72	85
SRN4320X	400	300	200	53	68	82	97
SRN4420X	400	400	200	68	84	101	119
SRN4620X	400	600	200	95	119	143	169
SRN5420X	500	400	200	76	95	116	137
SRN5420VX	500	400	200	76	95	116	137
SRN5520X	500	500	200	-	-	-	-
SRN6420X	600	400	200	87	108	132	154
SRN6420VX	600	400	200	87	108	132	154
SRN6620X	600	600	200	-	-	-	-
SRN6630X	600	600	300	-	-	-	-
SRN7525X	700	500	250	119	150	182	214
SRN7525VX	700	500	250	119	150	182	214
SRN8620X	800	600	200	-	-	-	-
SRN8625VX	800	600	250	151	190	230	272
SRN8630X	800	600	300	172	216	261	307
SRN8830X	800	800	300	183	228	278	328
SRN10830X	1000	800	300	228	286	346	409
SRN10830VX	1000	800	300	228	286	346	409
SRN12630X	1200	600	300	198	249	301	354
SRN12830X	1200	800	300	270	338	410	483

# SRX enclosures - General characteristics and applications

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.



# SRX enclosures - General characteristics and applications

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.

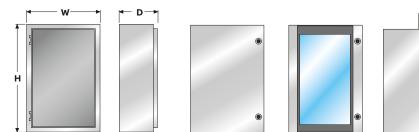


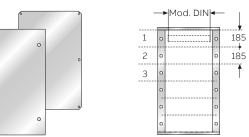
Closing box
A new Ø19 mm closing box
made of chrome-finished
plastic with double tongue
key.

Technical characteristics	<del></del>
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	UL LISTED (EX) II 3 G D
Type of material	AISI 304
Installation site	indoors/outdoors
Fixing method	floor/wall
Normal operating conditions - ambient temperature	from –5 to +55°C

SRX - Selection of the structure

### Rapid selection table

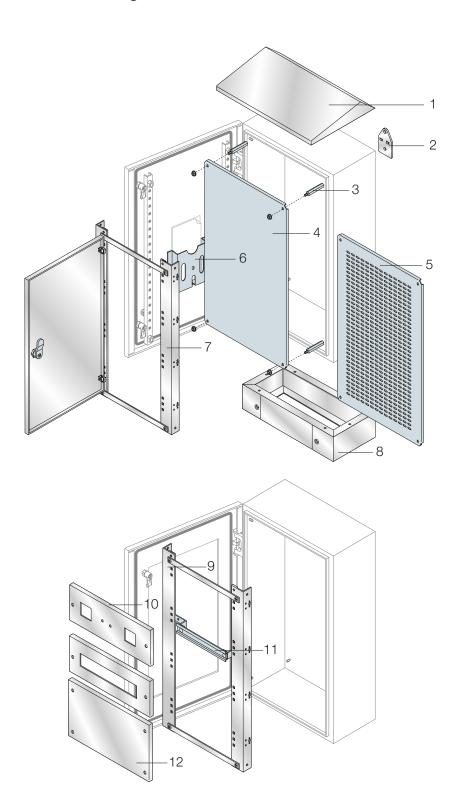




Overal	l dimensio	ns			Automation	kit	Distribution kit Supports for mo	unting mod	ular panels	
H mm	W mm	D mm	Enclosures with opaque door + mounting plate	Enclosures with transparent door ¹	Opaque inner door IP20	Opaque plate	No. of vertical mod. H=185mm	No. of DIN mod. per row	Total modules	DIN supports
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				

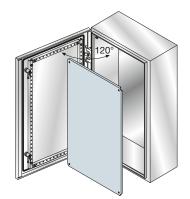
 $^{^{\}scriptscriptstyle 1}\,\text{Mounting}$  plate to be ordered separately.

### SRX - Ordering codes



- 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

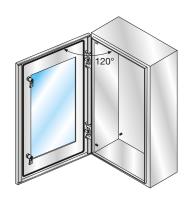
SRX - Ordering codes



#### 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.

Dimension	ns (mm)		Code	Package
Н	W	D		No. of pieces
300	200	150	SRN3215X	1/1
	400		SRN3415X	1/1
400	300	150	SRN4315X	1/1
	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		

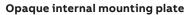
### SRX - Ordering codes



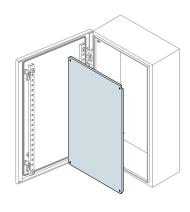
### Opaque inner door

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	KC5040X	1/1		
600		KC6040X	1/1		
700	500	KC7050X	1/1		
800	600	KC8060X	1/1		
1000	800	KC1080X	1/1		

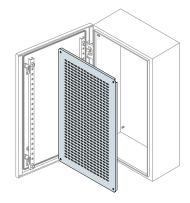


20/10 thick galvanised sheet metal internal plate, complete with fixing with small parts supplied. Depth-adjustable using a special spacer kit (to be ordered separately).



Opaque internal mounting plate					
Dimensions (mm)			Package/ No. of		
н	W	Code	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		

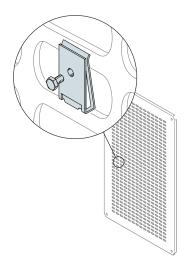
### SRX - Ordering codes



### Slotted internal plate

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

Piastra intern	Piastra interna asolata					
Dimensions (mm)			Package/			
н	W	Code	No. of 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	TQ7050	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			



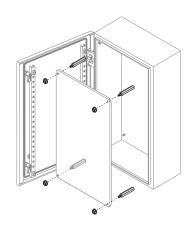
#### Clip nuts

For slotted plates with M6x10mm hexagonal head screws.

		Package/ No. of
Description	Code	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

### SRX - Ordering codes



### 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.

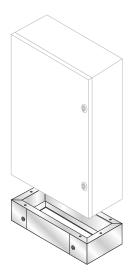
	Dimensions (mm) W D			Package/ No. of
Description			Code	pieces
Fairlead plate) for SRN3215X	173	97	FLN3215X	1/1
Fairlead plate for SRN4315X	273	97	FLN4315X	1/1
Fairlead plate for SRN3415X	373	97	FLN3415X	1/1
Fairlead plate for SRN4320X, SRN4320VX	273	147	FLN4320X	1/1
Fairlead plate for SRN4420X, SRN5420X, 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

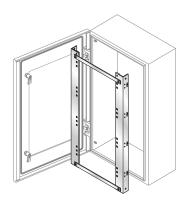
Dimensions (mm)			Package, No. of
w	D	Code	pieces
IP65 gasket			
400	200	GZ4020	1/1
500	200	GZ5020	1/1
	250	GZ5025	1/1
600	200	GZ6020	1/1
	250	GZ6025	1/1
	300	GZ6030	1/1
800	300	GZ8030	1/1

### SRX - Ordering codes



## Plinth 25/10 thick AISI 304 stainless steel plinth.

Plinth							
Dimensions (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			

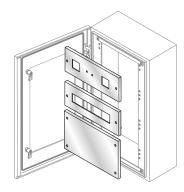


#### Frame for DIN rail

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

### SRX - Ordering codes



#### 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)

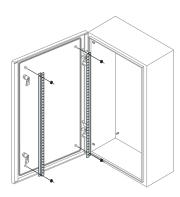
	Dimensions (mm)			Package/ No. of
Description	Н	W	Code	pieces
14 DIN mod. + fixing bracket	185	400	PM1414X	1/1
25 DIN mod. + fixing bracket	185	600	PM1625X	1/1
36 DIN mod. + fixing bracket	185	800	PM1836X	1/1

#### 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

	Dimer (mm)	sions		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

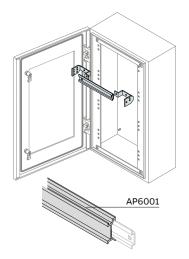


#### Shaped sections for accessories

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

### SRX - Ordering codes

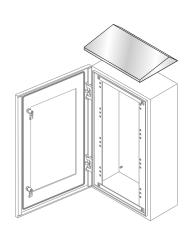


### DIN rail and fixing brackets

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.



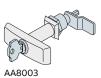
Spray protection roof				
Dimensions (mm)			Package/	
w	D	Code	No. of pieces	
200	150	TT2015X	1/1	
300	150	TT3015X	1/1	
400	150	TT4015X	1/1	
300	200	TT3020X	1/1	
400	200	TT4020X	1/1	
500	200	TT5020X	1/1	
600	200	TT6020X	1/1	
500	250	TT5025X	1/1	
600	250	TT6025X	1/1	
600	300	TT6030X	1/1	
800	300	TT8030X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

#### **Closing systems**

May substitute standard fasteners for the external doors.









EV1008

		Package/ No. of
Description	Code	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

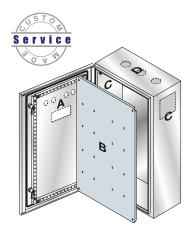
 $^{^{} ext{ iny Only}}$  for external door

SRX - Ordering codes

### 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

### SRX - Ordering codes



#### **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.

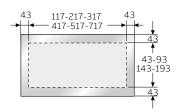
If the offer is accepted and after having received it, it will be possible to place the order with the codes indicated in the offer.

SRX - Overall Dimensions - Drillings

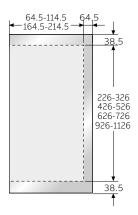
#### SRX enclosure drilling

Maximum working dimensions for drilling.

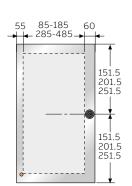




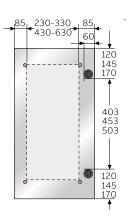
#### Side



Doors H = 300-400-500



Doors H = 600-700-800



Doors H = 1000-1200

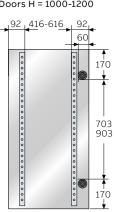




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