
PRODUCT OVERVIEW

ARIA Universal polyester enclosures for outdoor and heavy-duty environments



ARIA Universal polyester enclosures of ABB are revolutionising the market of low voltage electric insulating switchboards and industrial boxes. No matter how harsh the environment is, there is always an enclosure for your needs. Thanks to high protection ratings and high quality materials this fits for a wide variety of indoor and outdoor applications.

ARIA - Universal polyester enclosures

Aria is a range of monobloc cabinets made of G.R.P. (Glass Reinforced Polyester) suitable for outdoor and heavy-duty environments.



ARIA

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

Specifications

- Seven different types, from 315x215 to 1035x835 mm.
- Enclosures made from light grey polyester (RAL 7035), hot press moulded, glass fibre-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 V AC and 1500 V DC.

Standards/Certification



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



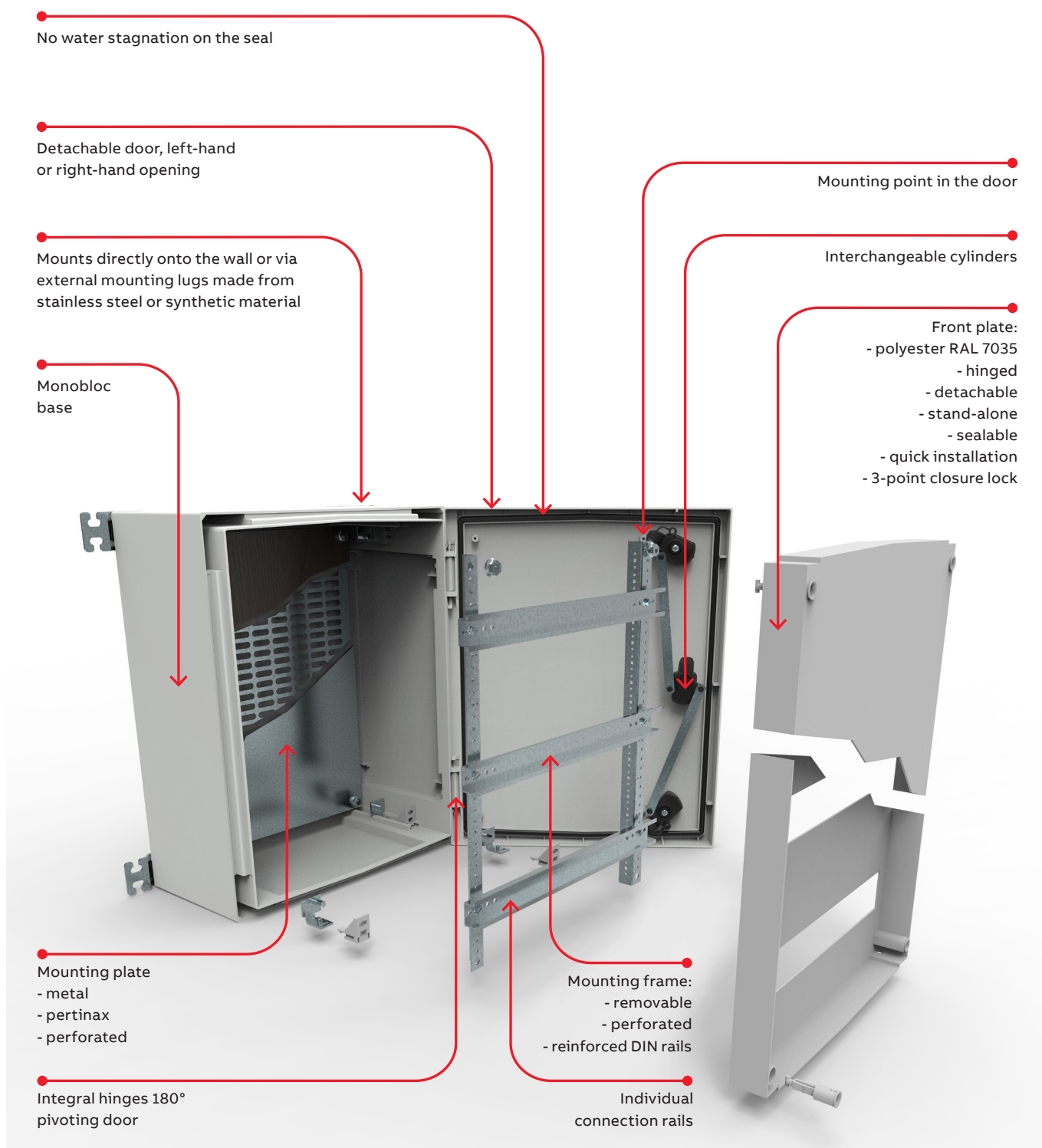
- CSA types 3, 3R, 3S, 4, 4X, 12 and 13 Available upon request.

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



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Universal polyester enclosures

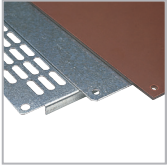




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Universal polyester enclosures

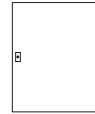
Universal polyester enclosures

		 	
Type		ARIA 32	ARIA 43
	Individual front plates HxW xD	315x215x170	415x315x170
	Enclosure  IP65 - IK08. With one or two double-bit, 3 mm locks	Type -	AR043P13 ⁽¹⁾
		Order code	4TBA831035C0100
			single-point closure
	Enclosure with inspection window  IP54 - IK07 With one or two double-bit, 3 mm locks	Type -	AR043T33
		Order code	4TBA831128C0100
			single-point closure
	Enclosure  IP66 - IK08 With 1 double-bit, 3 mm center lock	Type AR032P13 ⁽¹⁾	AR043P33
	Enclosure with inspection window  IP54 - IK07 with 1 double-bit, 3mm center lock	Type -	AR043T23
		Order code	4TBA831815C0100
	Enclosure  IP66 - IK08 With 1 security lock handle	Type AR032T13	AR043H33
		Order code	4TBA831307C0100
	Mounting plates		
	Dimensions HxW	250 x 150	350 x 250
	Pertinax 5 mm	Type AR032I03	AR043I03
		Order code	4TBA831027C0100
	2 mm Sendzimir galvanized steel panel	Type AR032M03	AR043M03
		Order code	4TBA831026C0100
	1.5 mm perforated metal panel	Type AR032Q03	AR043Q03
		Order code	4TBA831332C0100
			4TBA831333C0100
	Mounting frame	Type AR032D03	AR043D03
		Order code	4TBA831030C0100
			4TBA831041C0100
	Rows	2	2
	Modules	12	24
	Full cover plates		
	Solid	Type AR032C03	AR043C03
		Order code	4TBA831028C0100
			4TBA831039C0100
	With openings for DIN rail equipment	Type AR032S03	AR043S03
		Order code	4TBA831029C0100
			4TBA831040C0100
	With openings for individual modular front plates	Type -	AR043E03
		Order code	4TBA831790C0100
	Number of individual modular front plates possible	-	2
Note: the ARIA 43 and 86 cabinets and ARIA 64 and 108 cabinets contain the same modular closure plates (Closed and with openings)			
	Individual front plates HxW	-	150 x 239
	IP20 individual modular protective plates (PVC)		
	Solid	Type -	AR043N03
		Order code	4TBA831797C0100
	With openings for DIN rail equipment	Type -	AR043R03
		Order code	4TBA831796C0100
	Modules	-	12

(1) single-point closure
Pack = 1

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Universal polyester enclosures



ARIA 54	ARIA 64	ARIA 75	ARIA 86	ARIA 108
515x415x230	615x415x230	735x535x270	835x635x300	1035x835x300
AR054P23	AR064P23	AR075P23	AR086P23	AR108P23
4TBA831809C0100	4TBA831810C0100	4TBA831811C0100	4TBA831059C0100	4TBA831073C0100
two-point closure	two-point closure	two-point closure	two-point closure	two-point closure
AR054T23	AR064T23	AR075T23	-	-
4TBA831812C0100	4TBA831813C0100	4TBA831814C0100		
two-point closure	two-point closure	two-point closure		
AR054P33	AR064P33	AR075P33	AR086P33	AR108P33
4TBA831052C0100	4TBA831065C0100	4TBA831081C0100	4TBA831098C0100	4TBA831112C0100
AR054T33	AR064T33	AR075T33	AR086T33	AR108T33
4TBA831129C0100	4TBA831130C0100	4TBA831131C0100	4TBA831132C0100	4TBA831133C0100
AR054H33	AR064H33	AR075H33	AR086H33	AR108H33
4TBA831051C0100	4TBA831064C0100	4TBA831080C0100	4TBA831097C0100	4TBA831111C0100

450 x 350	550 x 350	650 x 450	750 x 550	950 x 750
AR054I03	AR064I03	AR075I03	AR086I03	AR108I03
4TBA831054C0100	4TBA831067C0100	4TBA831083C0100	4TBA831100C0100	4TBA831114C0100
AR054M03	AR064M03	AR075M03	AR086M03	AR108M03
4TBA831053C0100	4TBA831066C0100	4TBA831082C0100	4TBA831099C0100	4TBA831113C0100
AR054Q03	AR064Q03	AR075Q03	AR086Q03	AR108Q03
4TBA831334C0100	4TBA831335C0100	4TBA831336C0100	4TBA831337C0100	4TBA831338C0100
AR054D03	AR064D03	AR075D03	AR086D03	AR108D03
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	4TBA831069C0100	4TBA831085C0100	4TBA831102C0100	4TBA831116C0100
AR054E03	AR064E03	AR075E03	AR086E03	AR108E03
4TBA831791C0100	4TBA831792C0100	4TBA831793C0100	4TBA831794C0100	4TBA831795C0100
3	3	4	8	10

150 x 343	150 x 343	150 x 239	150 x 239	150 x 343
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

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Universal polyester enclosures - Accessories

Locks

Product	Type	Order code	Pack
With interchangeable cylinders (Supplied with 1 key)			
	3mm		
	AR831008	4TBA831008C0100	1
	8mm		
	AR831005	4TBA831005C0100	1
	8mm		
	AR831006	4TBA831006C0100	1
	11mm		
	AR831007	4TBA831007C0100	1

Other locks: please contact us.

Handles

Product	Type	Order code	Pack
	Neutral handle (without lock)		
	AR831003	4TBA831003R0100	1
	With lock and 2 keys V2432E		
	AR831004	4TBA831004R0100	1
	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
	Handle for lock with semi-cylindrical profile and locking by padlock		
	AR831822	4TBA831822C0100	1

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

Vents

Product	Type	Order code	Pack
(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.

Fixing lugs⁽¹⁾

Product	Type	Order code	Pack
	In 304 grade stainless steel Set of 4 pieces		
	ARACCB03	4TBA831000C0100	1
	Set of 4 polyamide pieces		
	ARACCB13	4TBA831001C0100	1

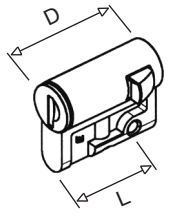
(1) not supplied as standard

Hinge supports for inner door

Product	Type	Order code	Pack
	Set of 2 pieces, for front plate		
	AR831010	4TBA831010C0100	1

A lower door may be installed together with a closed front plate.

Profile half cylinder locks

Product	Type	Order code	Pack
Standard: D = 40 mm - L = 30.5 mm			
	With 2 keys V2432-E		
	PS832030	4TBP832030C0100	1
	Replacement keys for 832030		
	PS832741	4TBP832741R0100	2
	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 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

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Universal polyester enclosures - Accessories

Pole mounting assembly

Product	Type	Order code	Pack
	For ARIA 54/64		
	AR891608	4TBA891608C0100	1

Fixing lugs in stainless steel included.
Steel strips not included.

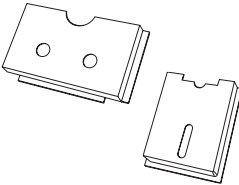
Self-adhesive drip moulding profile

Product	Type	Order code	Pack
	Length 415 mm for ARIA 54 and 64 ⁽¹⁾		
	AR831530	4TBA831530C0100	1
	Length 835 mm for ARIA 108 ⁽²⁾		
	AR831533	4TBA831533C0100	1

(1) May also be used for ARIA 32 and 43 after cutting out.

(2) May also be used for ARIA 75 and 86 after cutting out.

Document pocket

Product	Type	Order code	Pack
	DIN A4 - L x H = 325 x 180 mm		
	AR811516	4TBC811516C0100	1
	DIN A5 - L x H = 155 x 225 mm		
	PS832000	4TBP832000C0100	1

Hinge pins

Product	Type	Order code	Pack
	Length 66 mm for ARIA 32		
	AR831653	4TBA831653C0100	20
	Length 100.5 mm for ARIA 43, 54 and 64		
	AR831652	4TBA831652C0100	20
	Length 131.5 mm for ARIA 75, 86 and 108		
	AR831953	4TBA831953C0100	10

Module covers

Product	Type	Order code	Pack
	Sectionable by 1/2 module		
	12 modules		
	FORSTBP4	4TBR610142C0200	5
	4 modules		
	FORSTBP500	4TBR610484C0200	500

Label holders

Product	Type	Order code	Pack
	ZA10	4TBC851321C0100	1m

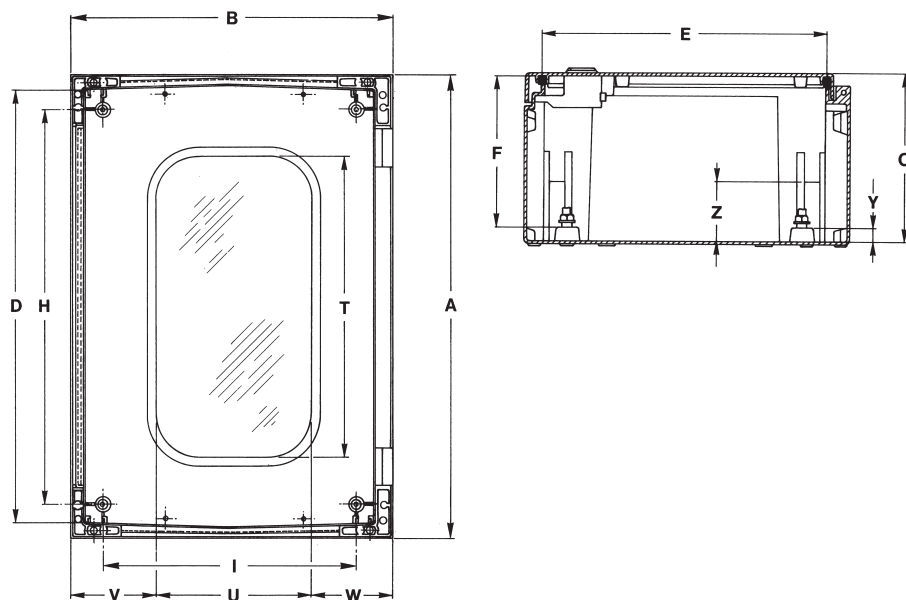
Slide nuts

Product	Type	Order code	Pack
For perforated mounting plate			
	M4		
	AR831328	4TBA831328C0100	50
	M5		
	AR831329	4TBA831329C0100	50
	M6		
	AR831330	4TBA831330C0100	50

ARIA

Dimensional drawings

Cabinets

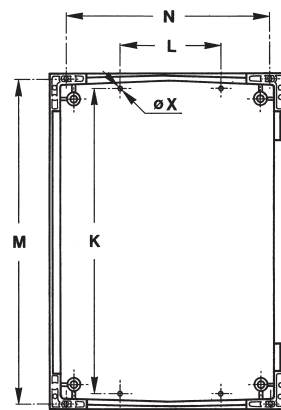


Dimensions

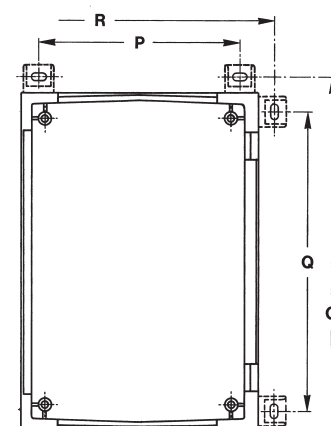
ARIA	32	43	54	64	75	86	108
A	315	415	515	615	735	835	1035
B	215	315	415	415	535	635	835
C	170	170	230	230	270	300	300
D	275	375	475	575	675	775	975
E	170	270	370	370	470	570	770
F	148	148	208	208	248	278	277
H	225	325	425	525	625	725	925
I	125	225	325	325	425	525	725
K	275	375	475	575	675	775	975
L	70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

Wall mounting

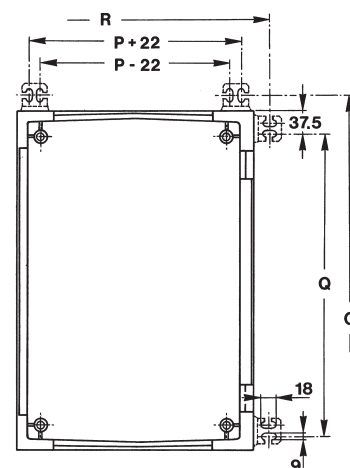
Direct to the wall



By fixing lugs in polyamide



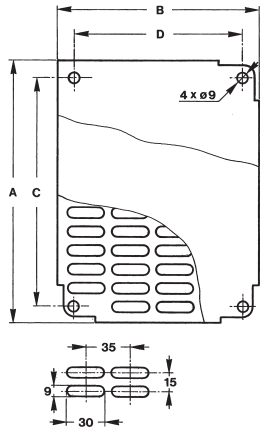
By fixing lugs in stainless steel



ARIA

Dimensional drawings

Mounting plates

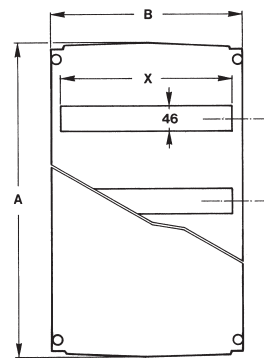


Dimensions

ARIA	A	B	C	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

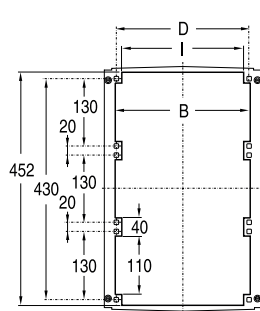
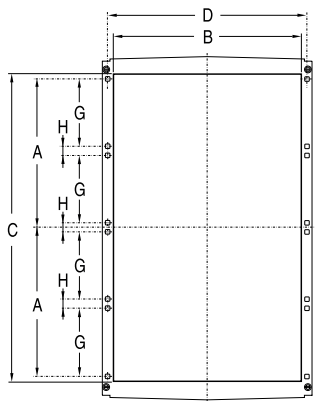
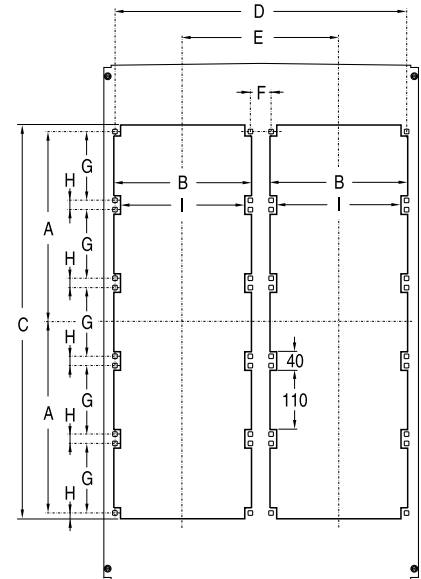
Plain and with openings for DIN-rail equipment



Dimensions

ARIA		A	B	X	Y
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 216	150
108	5 rows	990	762	2 x 324	150

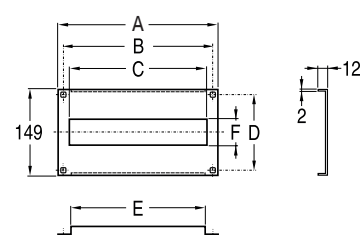
Cover plates with cut-out for individual modular cover plates



Dimensions

Type	A	B	C	D	E	F	G	H	I	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

Type	A	B	C	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



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