

Electrical installation solutions for buildings – Technical details

Automation boards

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Automation boards - technical details

Compliance with standards and technical characteristics – Gemini

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)

Automation boards - technical details

Compliance with standards and technical characteristics – Gemini

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	Si	Si	Si	Si	Si	Si
IK degree	10	10	10	10	10	10
GWT (°C)	750	750	750	750	750	750
Operating temperature	-25 °C ... +100 °C	-25 °C ... +100 °C	-25 °C ... +100 °C	-25 °C ... +100 °C	-25 °C ... +100 °C	-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	Gray RAL7035	Gray RAL7035	Gray RAL7035	Gray RAL7035	Gray RAL7035
Fast wiring system	Unifix L	Unifix L	Unifix L	Unifix L	Unifix L	Unifix L
No. of locks	2	2	2	2	3	3
Rated frequency	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz	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	≤ 800 V	≤ 800 V	≤ 800 V	≤ 800 V	≤ 800 V
- Rated impulse withstand voltage	8 kV	8 kV	8 kV	8 kV	8 kV	8 kV

⁽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 limiting 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.

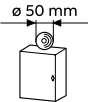
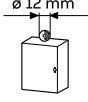
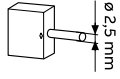
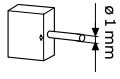
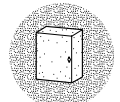

⁽⁴⁾ Rated service voltage according to CEI EN 61439-1 1000V AC and 1500V DC

Automation boards - technical details

IP degree of protection – Gemini

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.


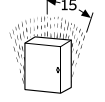
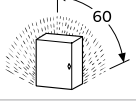
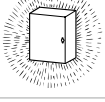
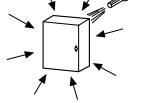
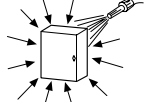
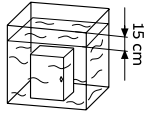
First number:
protection against the penetration of solid bodies

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

1st number defined by Standards CEI 70-1 – IEC 60529

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

Second number:
protection against the penetration of water


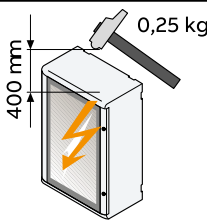
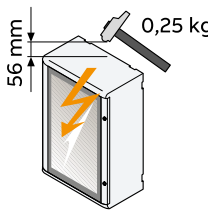
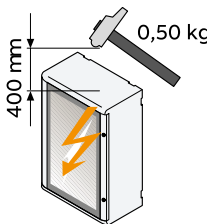
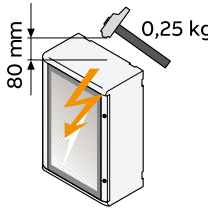
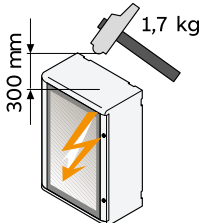
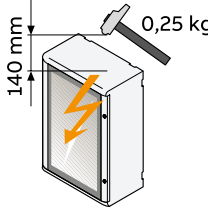
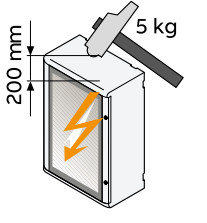
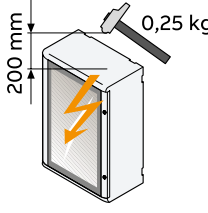
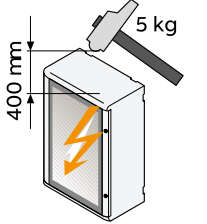
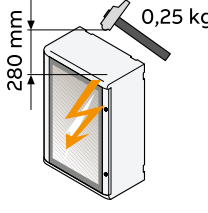
IP		
0		No protection
1		Protection against the penetration of drops of water falling vertically
2		Protection against the penetration of drops of water falling at an angle of up to 15° from vertical
3		Protection against the penetration of drops of water falling at an angle of up to 60° from vertical
4		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		Protection against the penetration of water during temporary immersion
8		Protection against the penetration of water during continual immersion

2nd number defined by Standards CEI 70-1 - IEC 60529.

Automation boards - technical details

IK degree of resistance to impacts – Gemini

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


IK 0		No protection against impacts
IK 06		Resistance to impacts with impact energy up to 1,00 J
IK 01		Resistance to impacts with impact energy up to 0,150 J
IK 07		Resistance to impacts with impact energy up to 2,00 J
IK 02		Resistance to impacts with impact energy up to 0,200 J
IK 08		Resistance to impacts with impact energy up to 5,00 J
IK 03		Resistance to impacts with impact energy up to 0,350 J
IK 09		Resistance to impacts with impact energy up to 10,00 J
IK 04		Resistance to impacts with impact energy up to 0,500 J
IK 10		Resistance to impacts with impact energy up to 20,00 J
IK 05		Resistance to impacts with impact energy up to 0,700 J

Automation boards - technical details

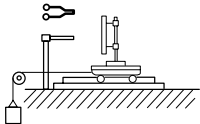
Double insulation and self-extinguishing tests – Gemini

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 

Self-extinguishing tests

Test text	Equipment required	Compliance with Standards	Purpose	Test results of the test	Test conditions		
					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

Automation boards - technical details

Resistance to chemical agents – Gemini

Resistance to chemical agents

The behavior of Gemini switchboards 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	▲
Gasoline	▲
Acetone	■
Ethyl alcohol	■
Ammonia	■
Dichloromethane	▲
Diesel oil - naphtha	▲
Mineral oils and greases	■
Food oils and greases	■
Perchloroethylene	▲
Trichlorethene	▲
Ethylether	■
Toluene	▲
Methanol	■
Wine	■
Fruit juices	■
Laundry lye	■
Detergents	■

Caption:

■ high resistance
▲ limited resistance

Automation boards - technical details

Integration with ABB products – Gemini

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).

Size	Installation	XT1				XT2				XT3				XT4			
		3p	4p	3p D	4p D	3p	4p	3p D	4p D	3p	4p	3p D	4p D	3p	4p	3p D	4p D
1	D	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	O1	■	■	■	■	■	■	■	■	■	■			■	■		
	T	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2	D	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	K1	■	■	■													
	K2		■	■	■					■	■	■	■				
	O1	■	■	■	■	■	■	■	■	■	■	■		■	■	■	■
	O2	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	T	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
3	D	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	K1	■	■	■													
	K2		■	■	■					■	■	■	■				
	O1	■	■	■	■	■	■	■	■	■	■	■		■	■	■	
	O2	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	T	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
4	D	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	K1	■	■	■													
	K2		■	■	■					■	■	■	■				
	O1	■	■	■	■	■	■	■	■	■	■	■		■	■	■	■
	O2	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	T	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
5	D	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	K1	■	■	■													
	K2		■	■	■					■	■	■	■				
	O1	■	■	■	■	■	■	■	■	■	■	■		■	■	■	
	O2	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	T	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6	D	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	K1	■	■	■													
	K2		■	■	■					■	■	■	■				
	O1	■	■	■	■	■	■	■	■	■	■	■		■	■	■	■
	O2	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	T	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

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

Automation boards - technical details

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			External dimensions WxHxD (mm)
Size	With transparent door	With opaque door	Rated weight (kg)	
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

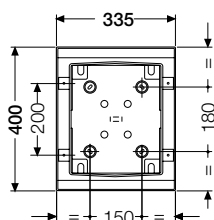
General code: CER 17 02 03 plastic (more than 95% of the product's weight)

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

Automation boards - technical details

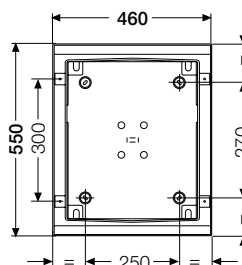
Overall dimensions – Basic configuration

Front view



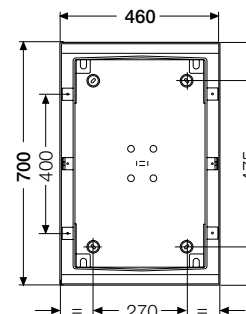
Size 1

1SL0201A00 - 1SL0211A00 - 1SL0221A00



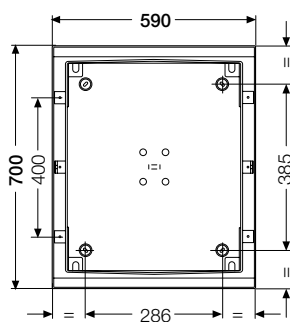
Size 2

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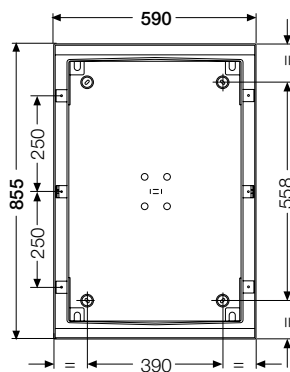
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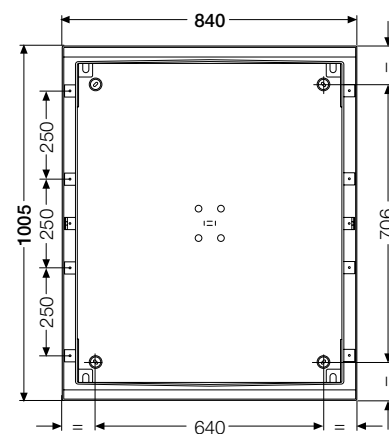
Size 4

1SL0204A00 - 1SL0214A00 - 1SL0224A00



Size 5

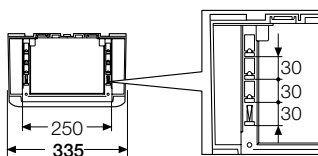
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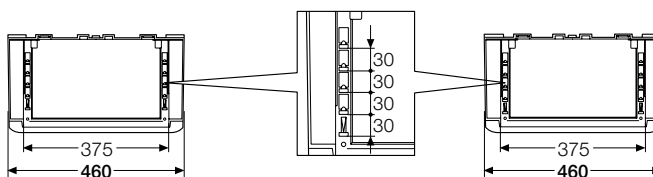
Size 6

1SL0206A00 - 1SL0216A00 - 1SL0226A00

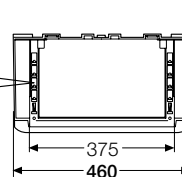
Top view



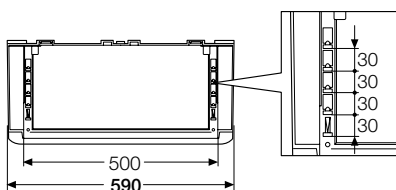
Size 1



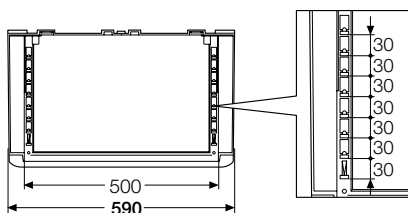
Size 2



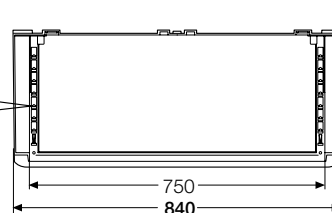
Size 3



Size 4



Size 5



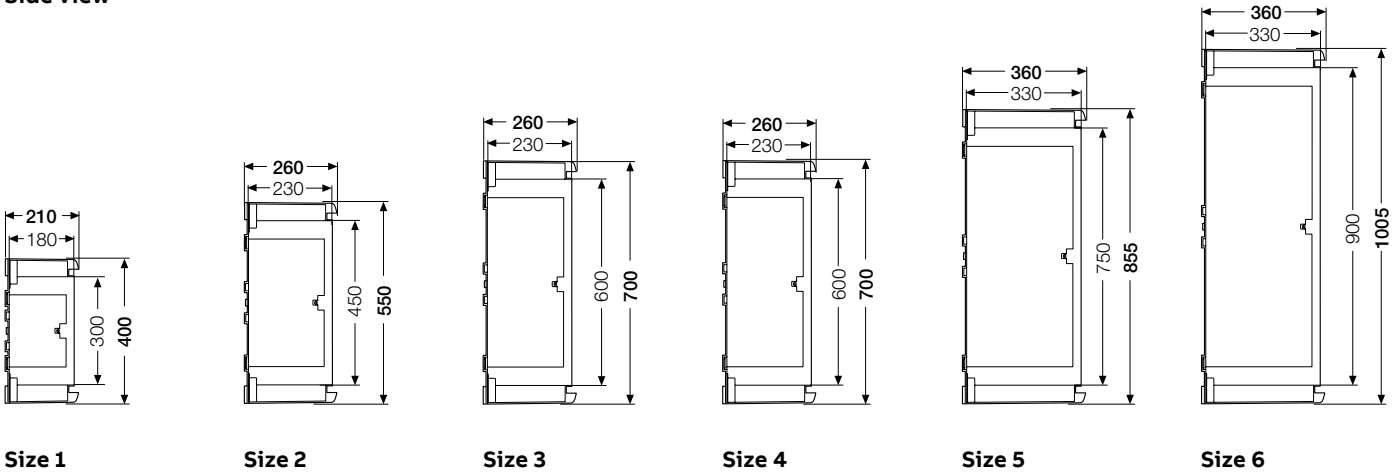
Size 6

Measurements are expressed in millimeters.

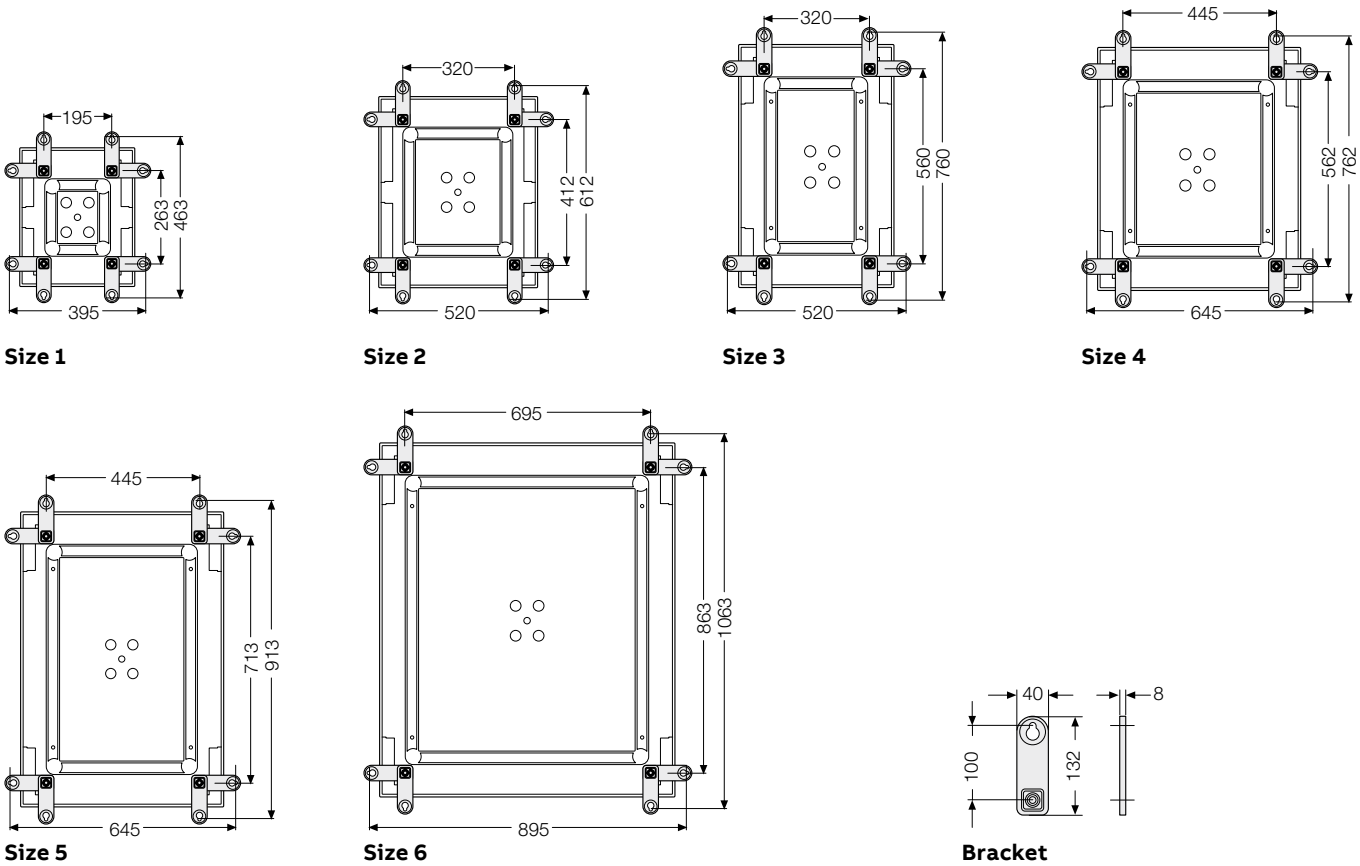
Automation boards - technical details

Overall dimensions – Basic configuration

Side view



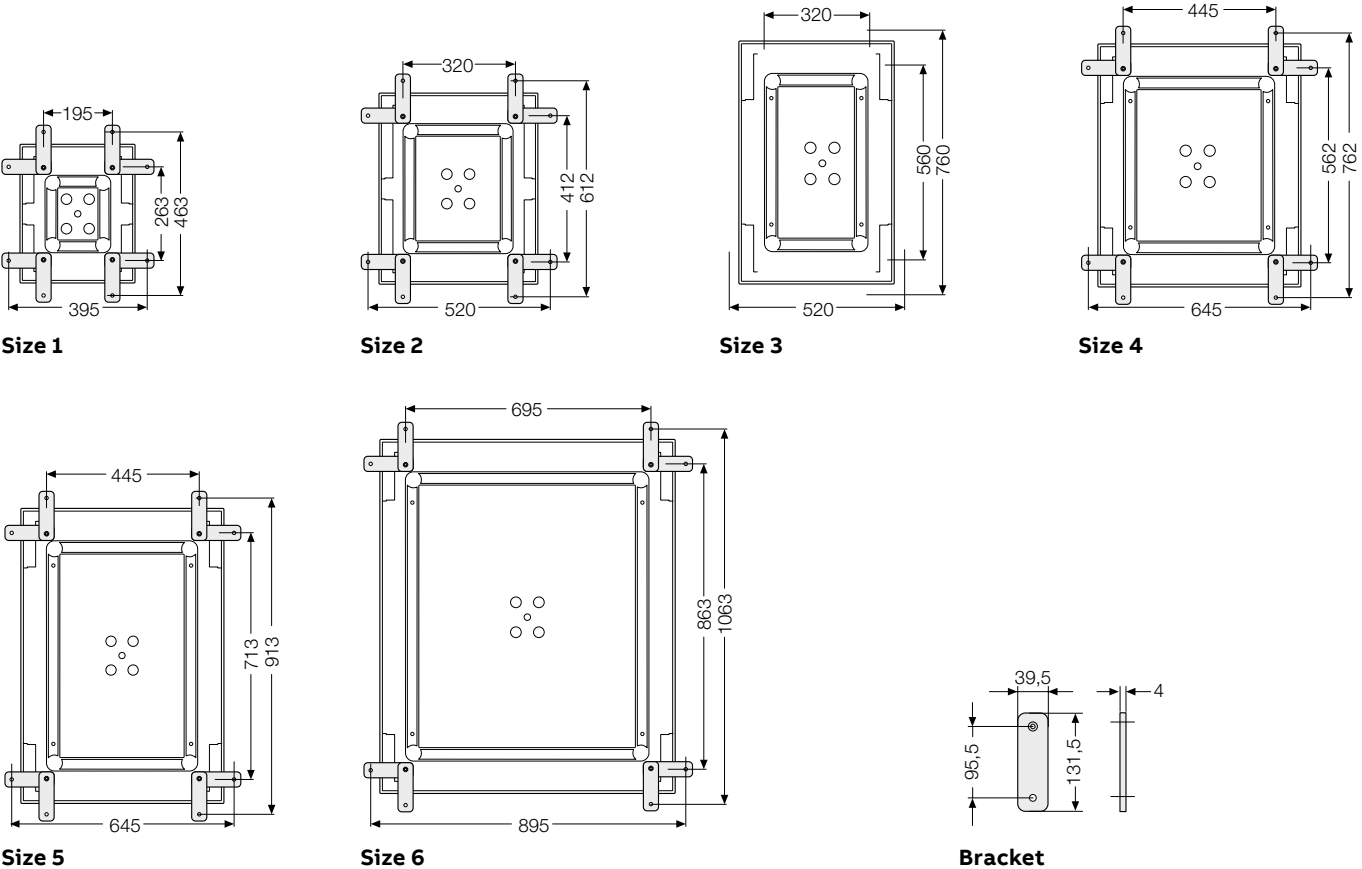
Installation with plastic brackets



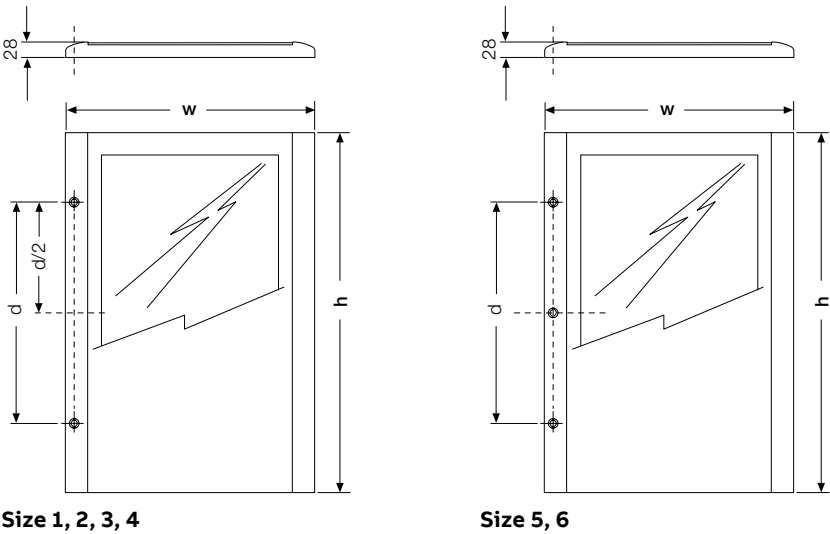
Automation boards - technical details

Overall dimensions – Basic configuration

Installation with stainless steel brackets



External opaque and transparent doors



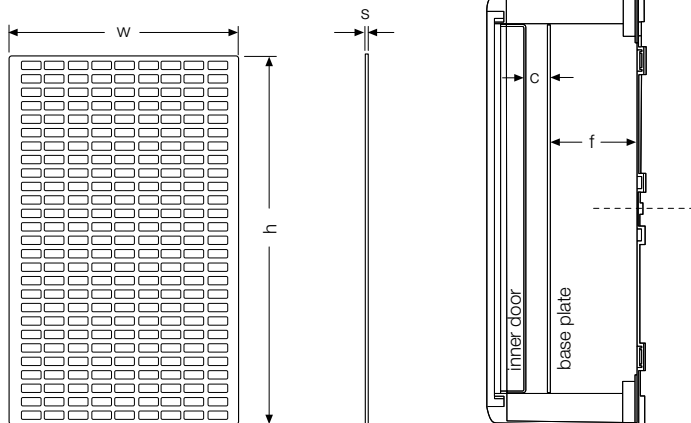
Size	w	h	Locks	d = lock distance
1	325	349	2	200
2	450	499	2	300
3	450	649	2	400
4	575	649	2	400
5	575	799	3	500
6	825	949	3	750

Automation boards - technical details

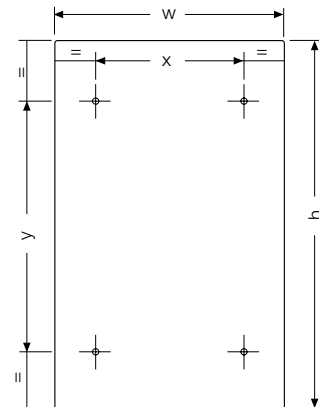
Overall dimensions – Components for automation applications

Base plate

Metal, drilled



Metal, blank and insulating



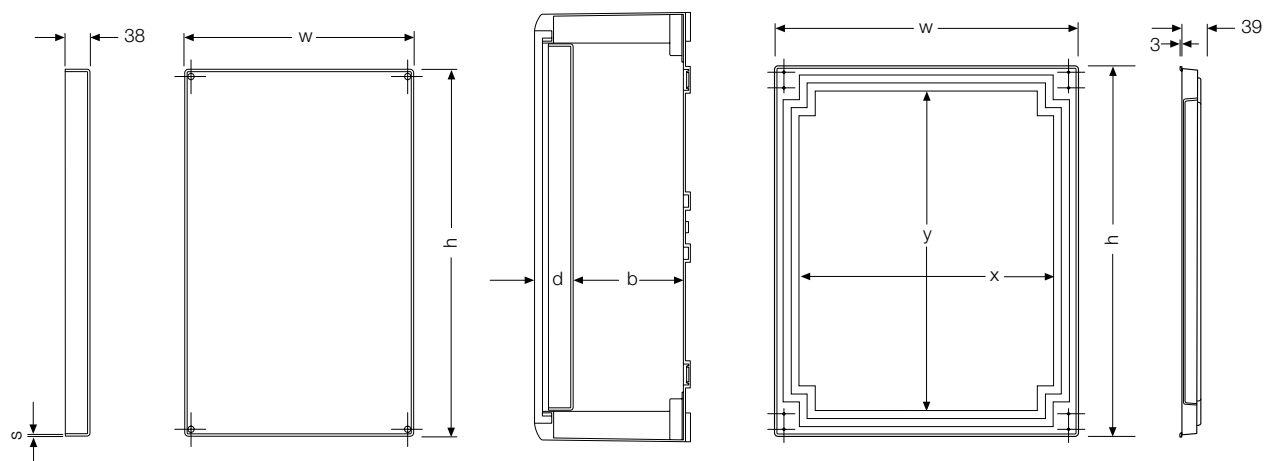
Size	w	h	Metal, blank and drilled		Insulating		f = base distance		c = distance inner door		Distance of the plate from the inner door
			s	s	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	
1	235	285	2	5	16,3	91	33,5	110	-	-	-
2	360	435	2	5	36,4	140	33,5	139	152,4	152,4	152,4
3	360	585	2	5	36,4	140	33,5	139	152,4	152,4	152,4
4	485	585	2	5	36,4	140	33,5	139	152,4	152,4	152,4
5	485	735	2	5	47	244	33,5	228	252,0	252,0	252,0
6	735	885	2	5	47	244	33,5	228	252,0	252,0	252,0

Drilling for base mounting with code 1SL0383A00

Size	x	y
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



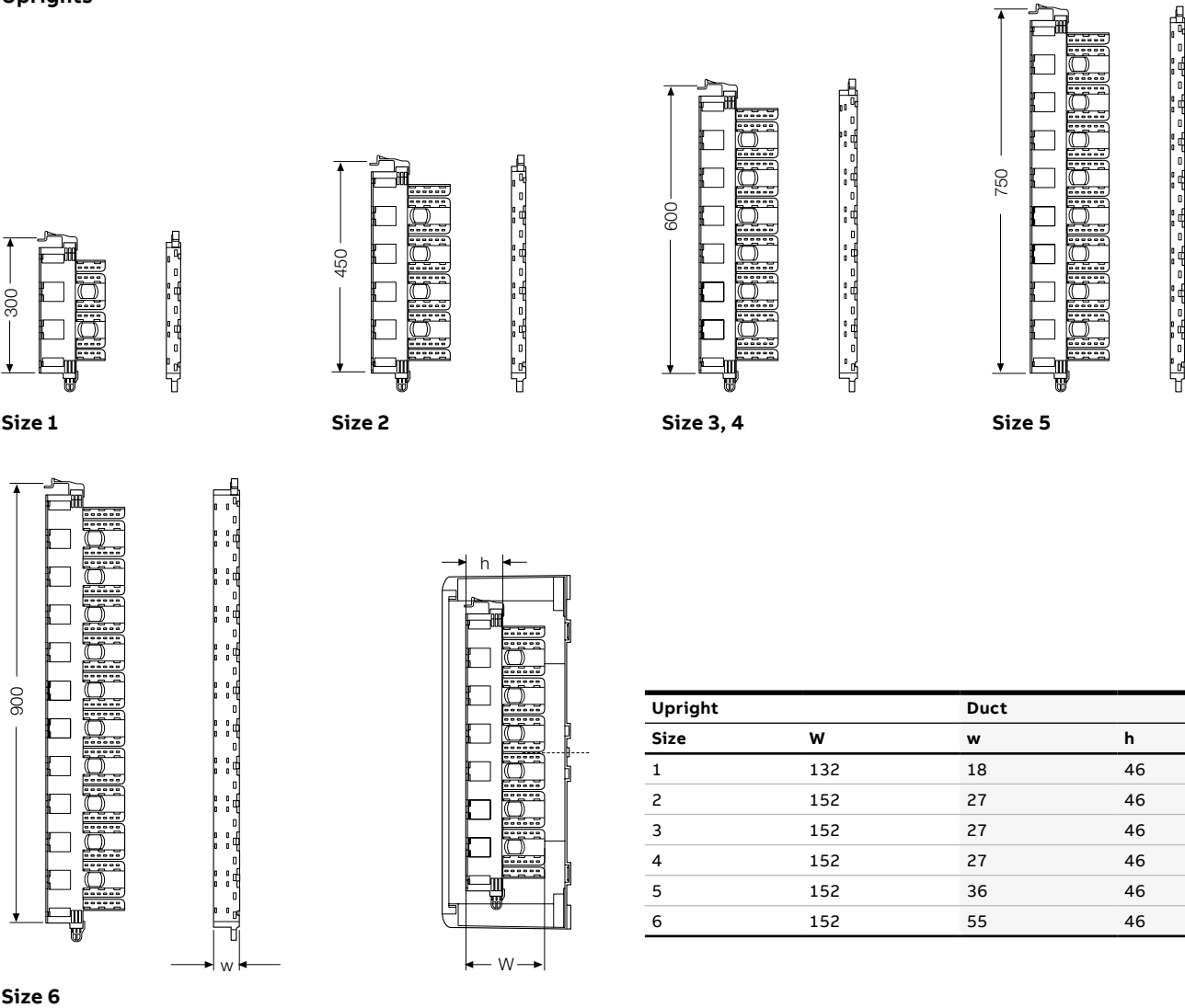
Size	w	h	s	Inner door distance		x	y
				d = door	b = base		
1	250	300	3	63	128	245	295
2	375	450	4	63	177	365	435
3	375	600	4	63	177	215	435
4	500	600	4	63	177	340	440
5	500	750	4	63	277	340	590
6	750	900	4	63	277	585	735

Measurements are expressed in millimeters.

Automation boards - technical details

Overall dimensions – Components for distribution and mixed applications

Uprights

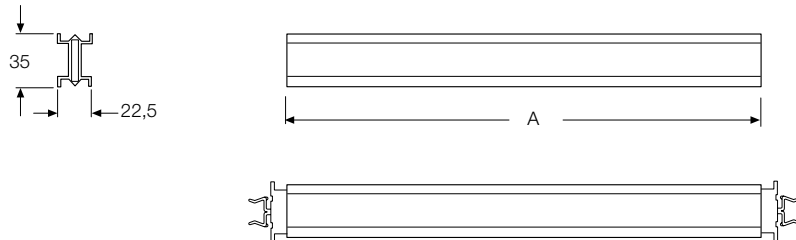


Measurements are expressed in millimeters.

Automation boards - technical details

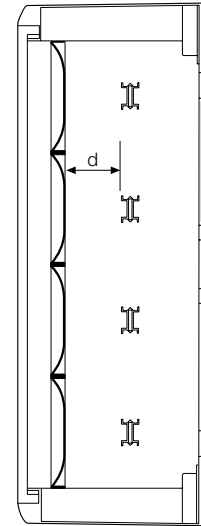
Overall dimensions – Components for distribution and mixed applications

DIN rails



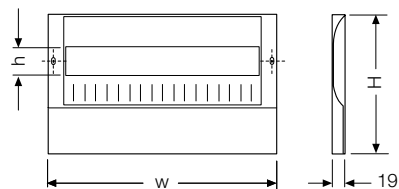
Size	A	d = distance between panel with holes/DIN rail					
		pos. 1	pos. 2	pos. 3	pos. 4	pos. 5	pos. 6
1	210	51	63,5	76	88,5	-	-
2	318	51	63,5	76	88,5	101	113,5
3	318	51	63,5	76	88,5	101	113,5
4	443	51	63,5	76	88,5	101	113,5
5	443	51	63,5	76	88,5	101	113,5
6	663	51	63,5	76	88,5	101	113,5

The distances of the DIN rail from the Panel depend on depth adjustment made through rail mountings.

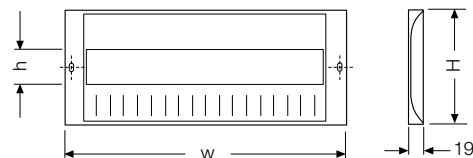


Drilled panels

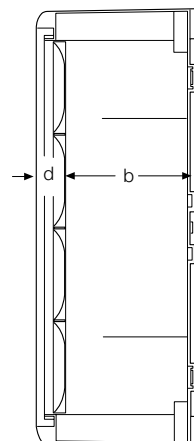
1 + 1/2 module



1 module



Drilled panel	1 mod.		1+1/2 mod.		Window	Panel distance		
Size	w	H	w	H	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

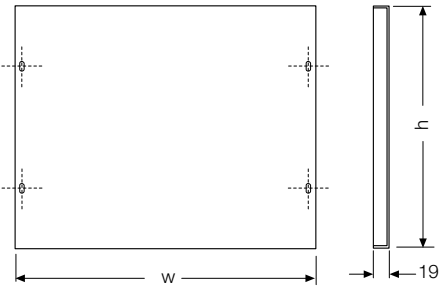


Automation boards - technical details

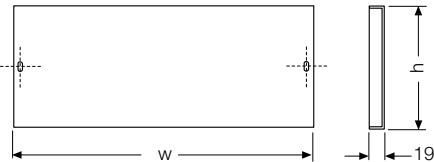
Overall dimensions – Components for distribution and mixed applications

Blank panels

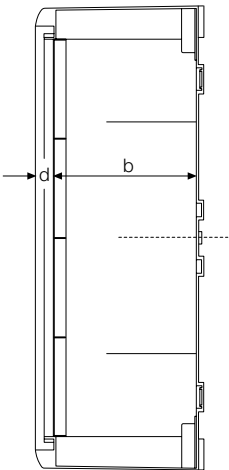
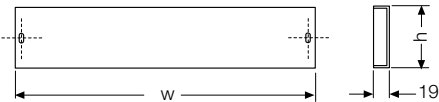
Blank panel 2 modules



Blank panel 1 module



Blank panel 1/2 module



Size	1/2 mod.		1 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

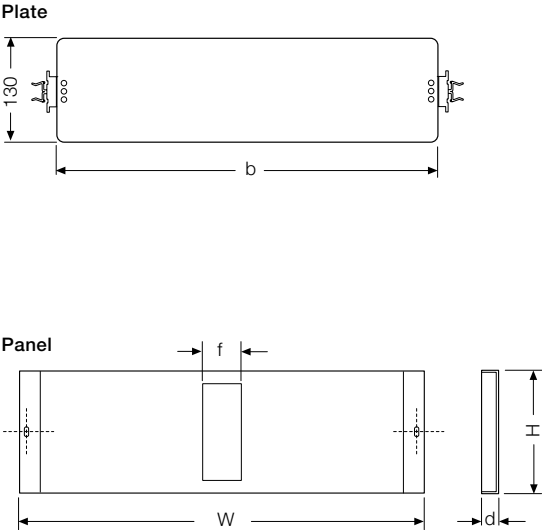
Measurements are expressed in millimeters.

Automation boards - technical details

Overall dimensions – Components for distribution and mixed applications

Kit for Tmax

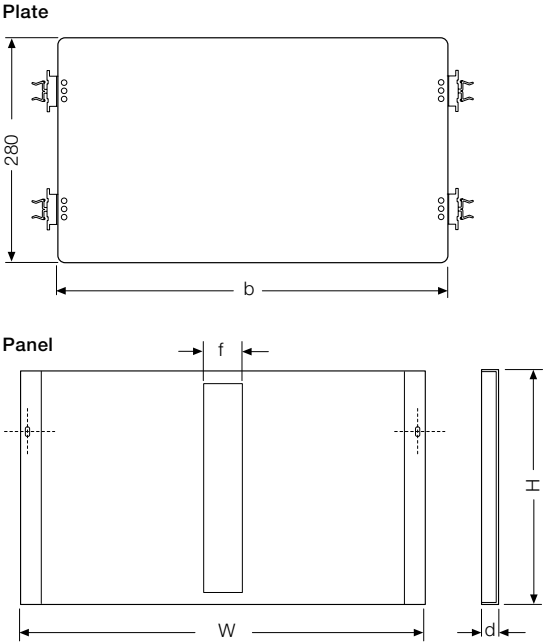
Kit H 150



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

Size	W	H	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 H 300



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

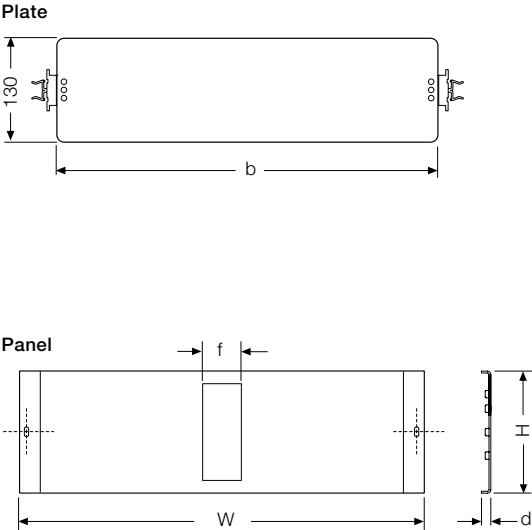
Size	W	H	d	f	b
2	375	300	19	46	318
3	375	300	19	46	318
4	500	300	19	46	443
5	500	300	19	46	443
6	750	300	19	46	663

Automation boards - technical details

Overall dimensions – Components for distribution and mixed applications

Kit for Tmax XT

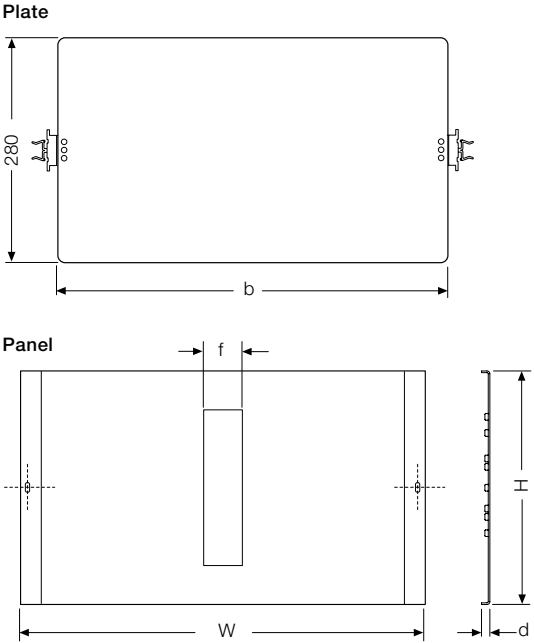
Kit H 150



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

Size	W	H	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



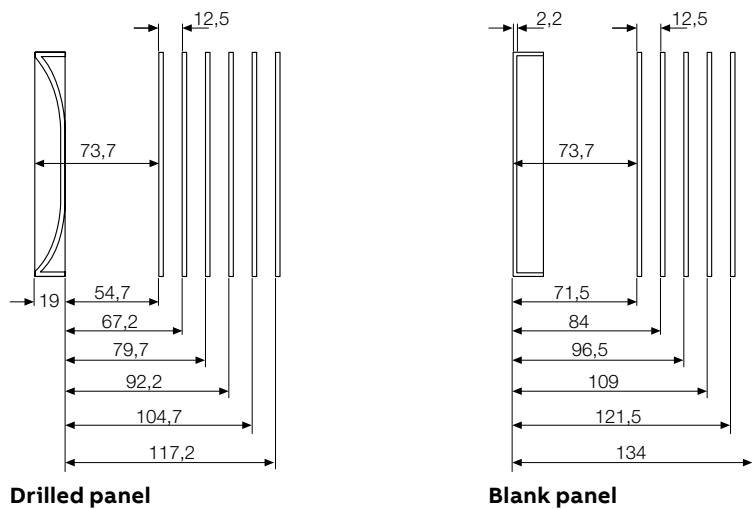
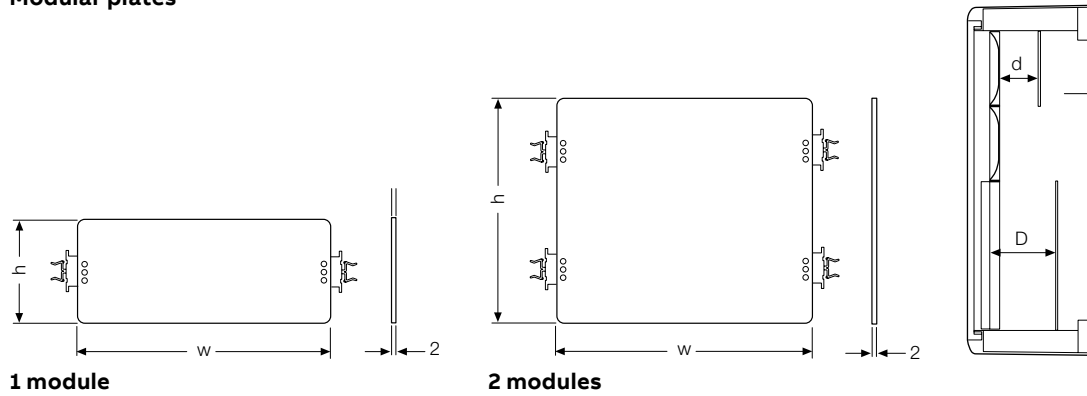
kit for Tmax XT H 300 (available for sizes 2-6)

Size	W	H	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

Automation boards - technical details

Overall dimensions – Components for distribution and mixed applications

Modular plates



Size	1 module		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 = 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	

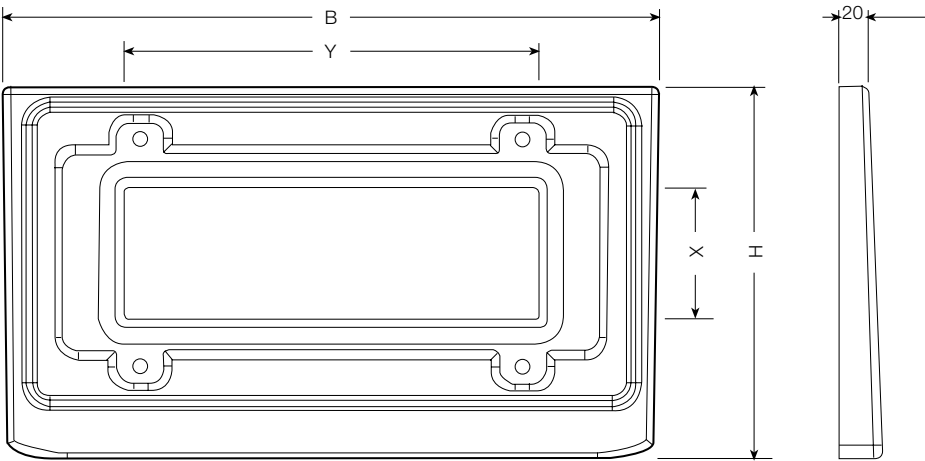
d = distance drilled panel/plate						
pos. 1	pos. 2	pos. 3	pos. 4	pos. 5	pos. 6	
54,7	67,2	79,7	92,2	-	-	
54,7	67,2	79,7	92,2	104,7	117,2	
54,7	67,2	79,7	92,2	104,7	117,2	
54,7	67,2	79,7	92,2	104,7	117,2	
54,7	67,2	79,7	92,2	104,7	117,2	
54,7	67,2	79,7	92,2	104,7	117,2	
54,7	67,2	79,7	92,2	104,7	117,2	

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

Automation boards - technical details

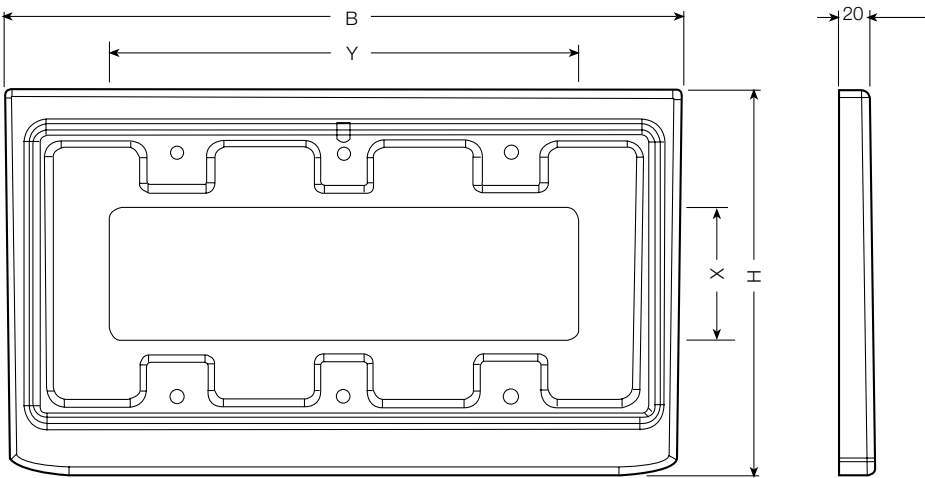
Overall dimensions – Components for distribution and mixed applications

Coupling kit



Size	B	H	X	Y
1	-	-	-	-
2	455	258	90	286
3	455	258	90	286
4	583	260	90	412
5	583	360	190	412
6	834	360	190	662

Bottom base H 30

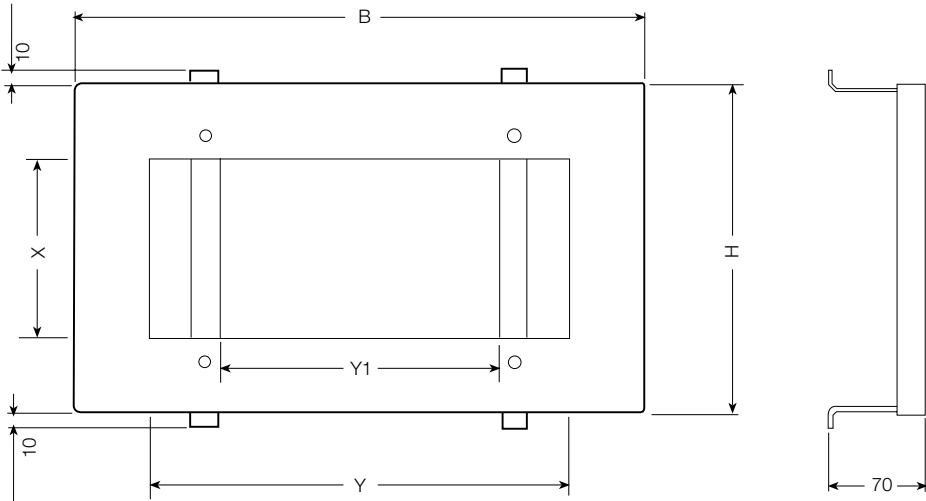


Size	B	H	X	Y
1	-	-	-	-
2	458	260	91	316
3	458	260	91	316
4	583	260	91	440
5	590	366	164	400
6	840	366	164	640

Automation boards - technical details

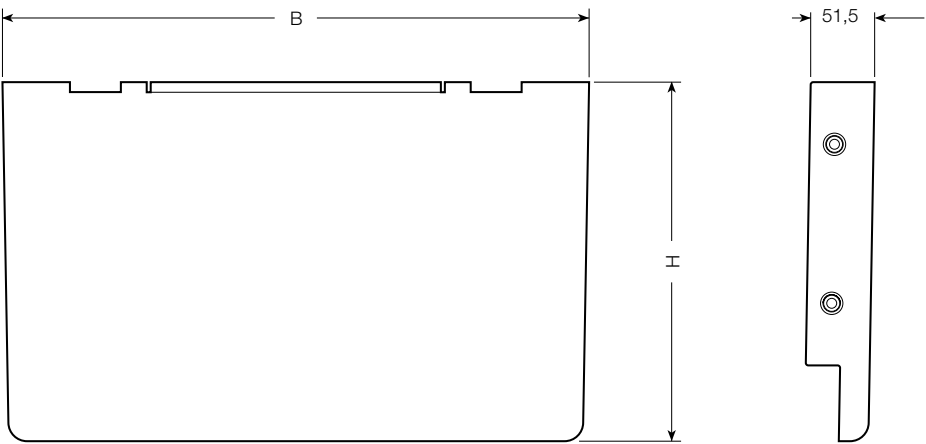
Overall dimensions – Components for distribution and mixed applications

Fixed frame



Size	B	H	X	Y	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



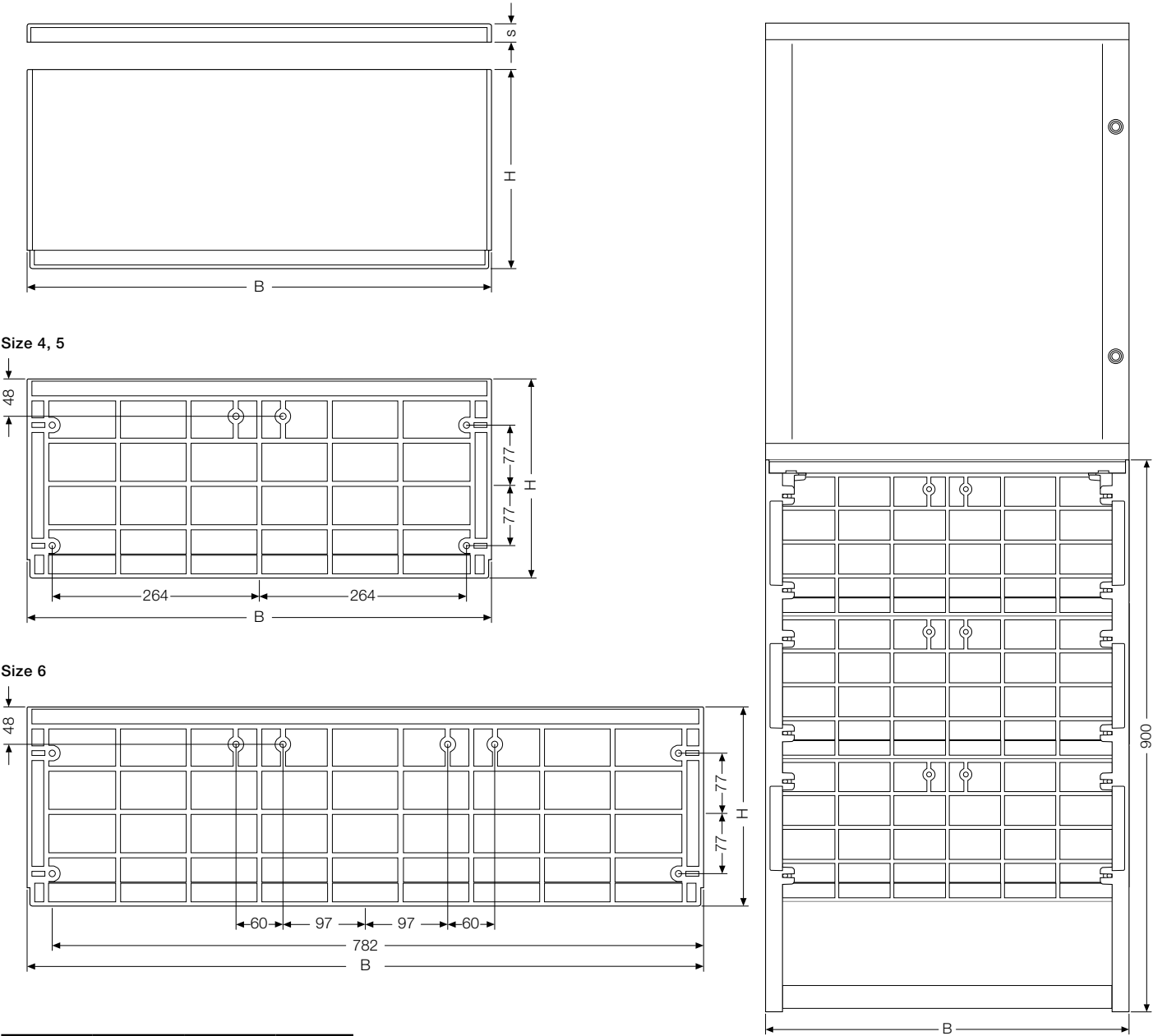
Size	B	H
1	347	238
2	472	289
3	472	289
4	600	289
5	604	390
6	854	390

Automation boards - technical details

Overall dimensions – Components for distribution and mixed applications

Pedestal

Front view



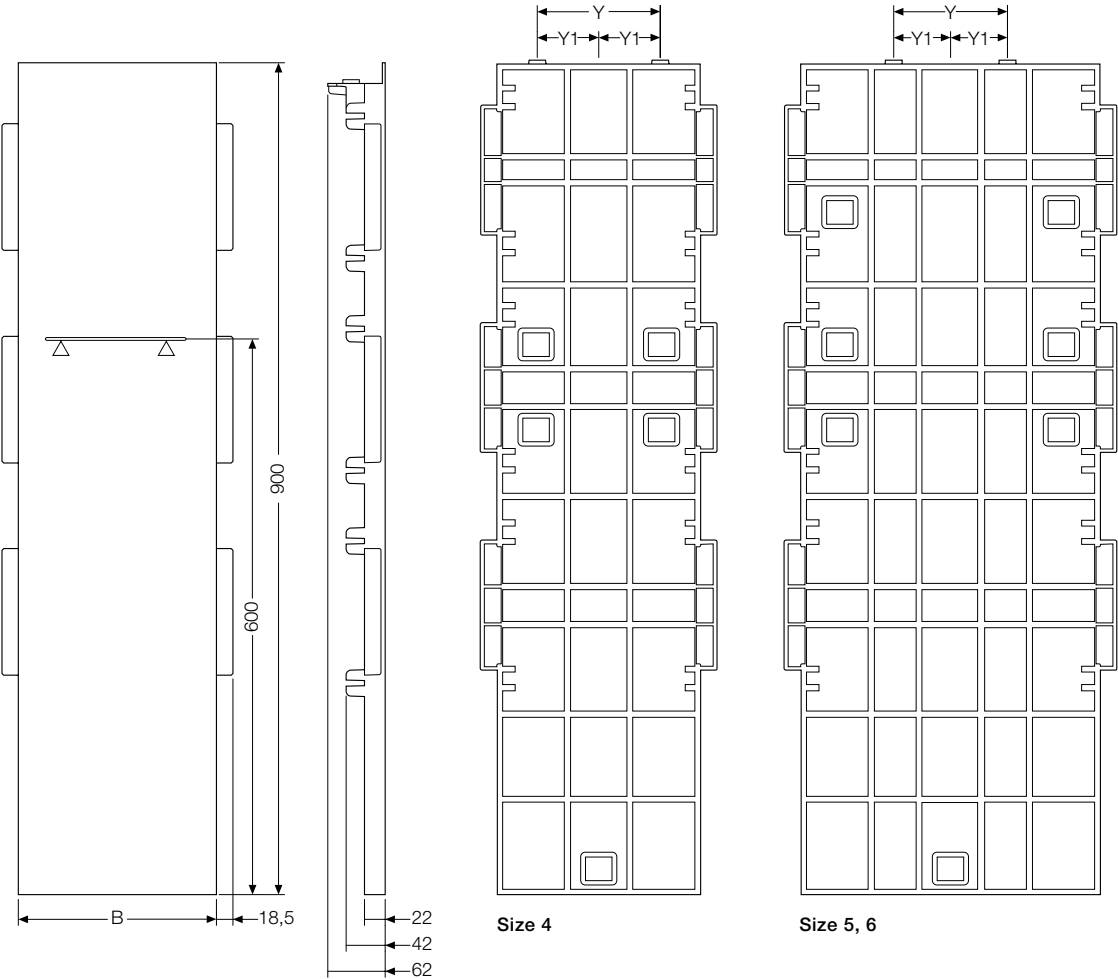
Size	B	H	s
4	592	254	28
5	592	254	28
6	846	254	28

Measurements are expressed in millimeters.

Automation boards - technical details

Overall dimensions – Components for distribution and mixed applications

Side view

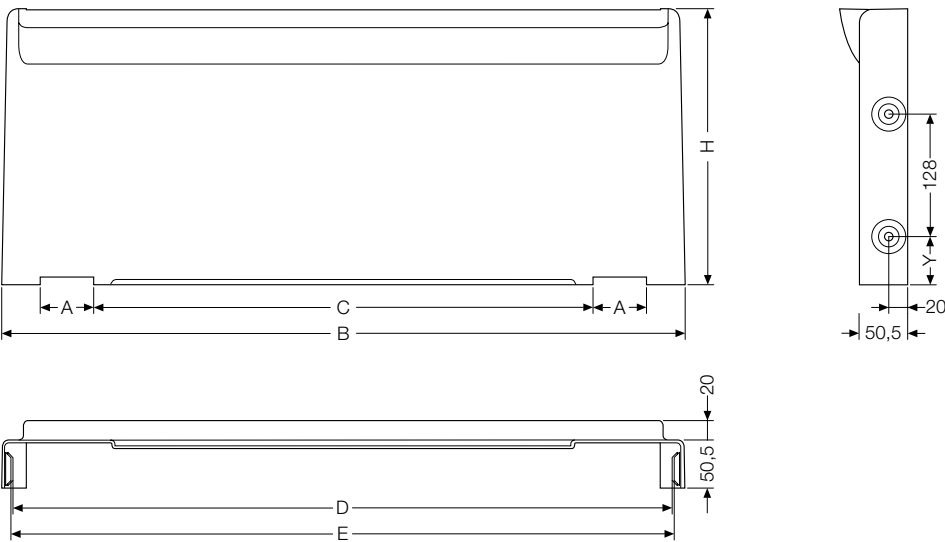


Size	B	Y	Y1
4	213	130	65
5	313	120	60
6	313	120	60

Automation boards - technical details

Overall dimensions – Components for distribution and mixed applications

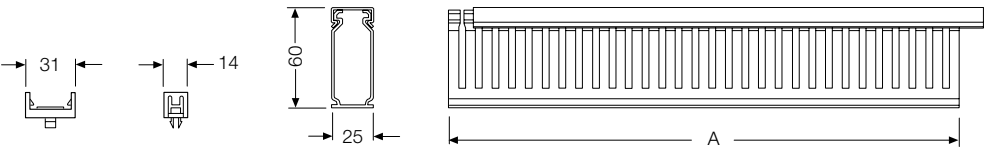
Horizontal Gemini kit



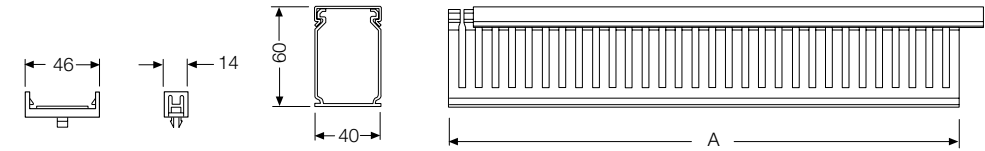
Size	A	B	C	H	Y	D	E
3	56	715,6	523	288	51	692	696
4	56	715,6	523	288	51	692	696
5	60	870	660	388	151	844	848
6	60	1021	810	388	153	994	998

Wiring kit

Duct 25x60 mm



Duct 40x60 mm

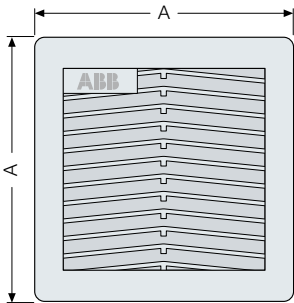


Size	A
1	210
2	318
3	318
4	443
5	443
6	663

Automation boards - technical details

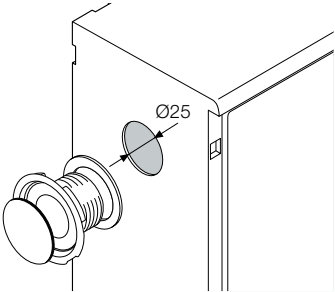
Overall dimensions – Components for distribution and mixed applications

Ventilation kit

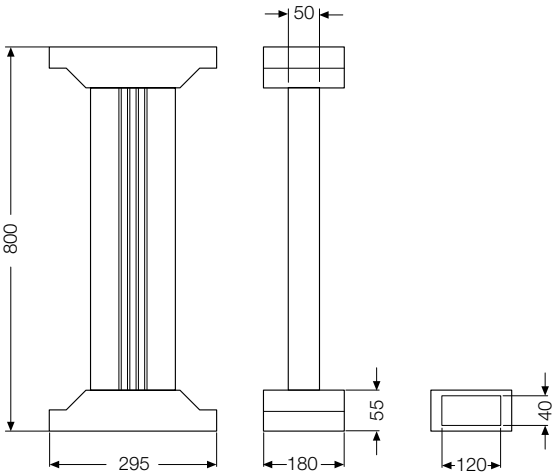


Code	A
EN0105K	105
EN0150K	150
EN0204K	204

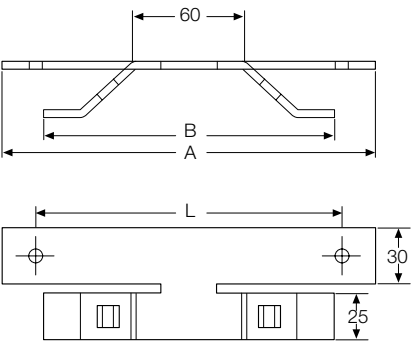
Anti-condensation kit



Floor pedestals



Pole installation kit



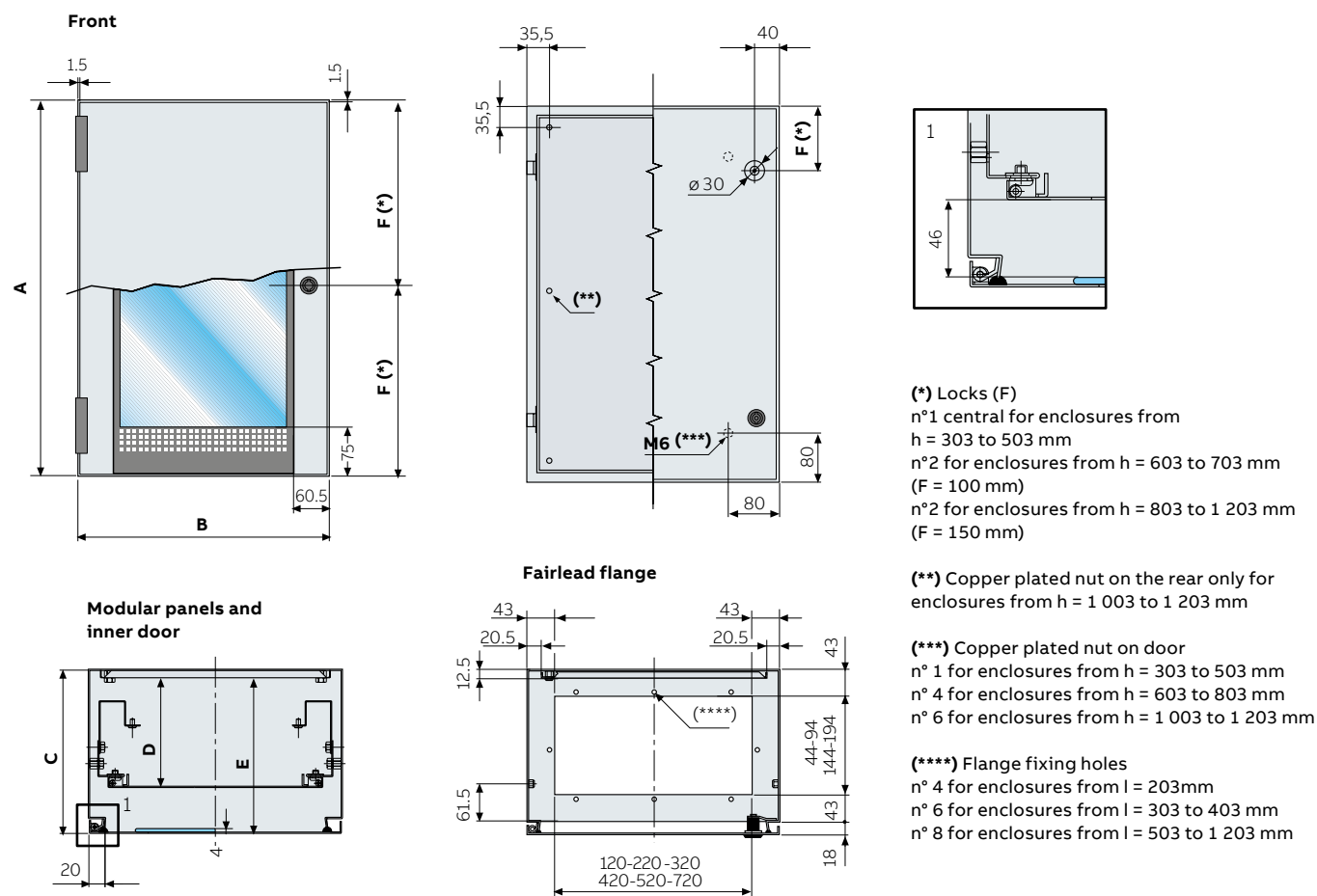
Size	A	B	L
1	232	206	196
2	358	332	320
3	358	332	320
4	483	457	447
5	483	457	447
6	733	707	697

Note: minimum pole section = 150 mm

Automation boards - technical details

Overall dimensions – Casse SR2

Basic version



Code	A	B	C	D	E	F (*)	G	H	I	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

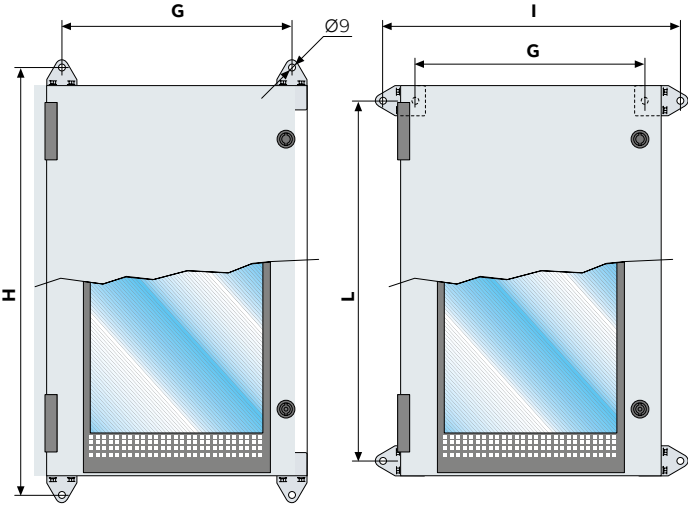
Code	A	B	C	D	E	F (*)	G	H	I	L
SRN10625K	1003	603	247	182	233,5	150	563	1037	637	963
SRN10630K	1003	603	297	232	283,5	150	563	1037	637	963
SRN10830K	1003	803	297	232	283,5	150	763	1037	837	963
SRN12630K	1203	603	297	232	283,5	150	563	1237	637	1163
SRN12830K	1203	803	297	232	283,5	150	763	1237	837	1163
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

Measurements are expressed in millimeters.

Automation boards - technical details

Overall dimensions – Casse SR2

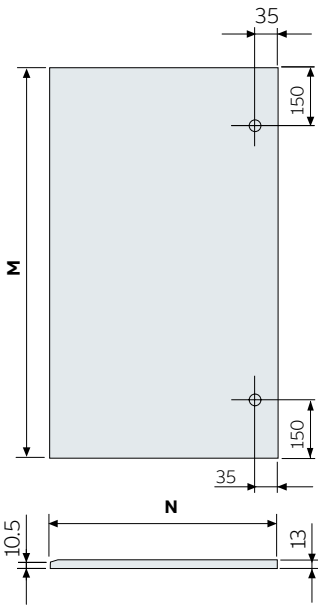
Centre distances for wall fixing



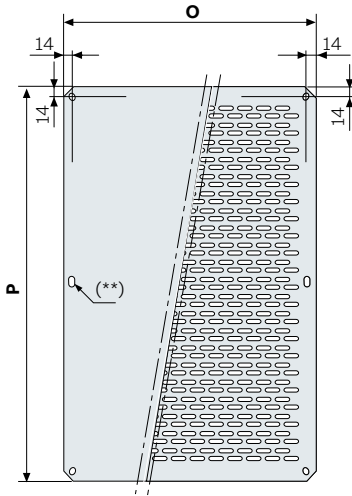
Centre distances for plinth fixing



Internal counterdoors



Internal plates



Code	M	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

* The counterdoors with H 500 mm, 600 mm and 700 mm, only have one hole in the centre for the lock

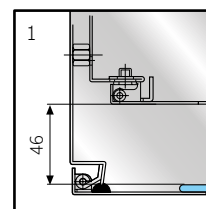
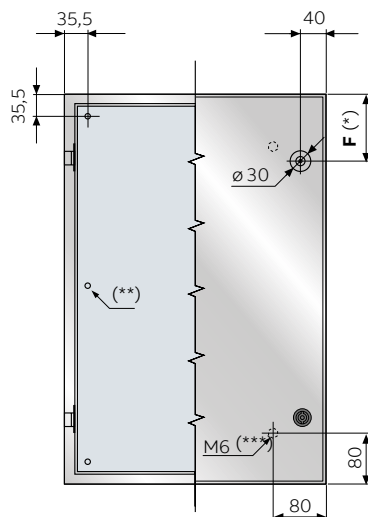
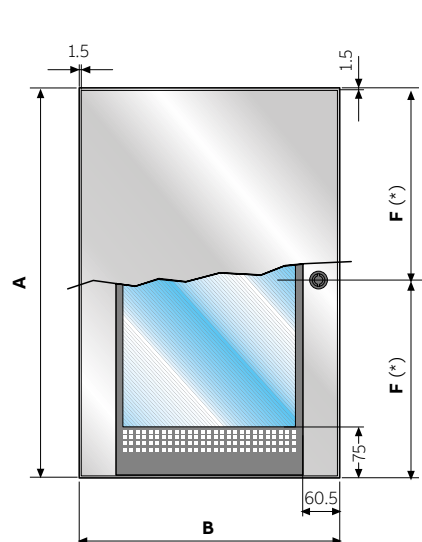
Code	O	P
PF3020	160	260
PF3030	260	260
PF3040 - PF4030	360	260
PF4040	360	360
PF5030	260	460
PF5040	360	460
PF6040 - PF4060	360	560
PF6060	560	560
PF7050	460	660
PF8060	560	760
PF8080	760	760
PF1060	560	960
PF1080	760	960
PF1260	560	1160
PF1280	760	1160

Measurements are expressed in millimeters.

Automation boards - technical details

Overall dimensions – SRX enclosures

Basic version

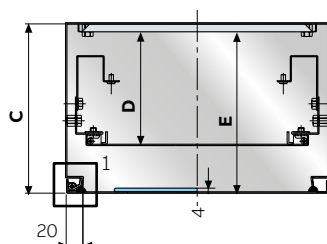


(*) Locks (F)
 1 central for enclosures from
 h=303 to 503 mm
 2 for enclosures from
 h=603 to 703 mm (F=100mm)
 2 for enclosures
 from h=803 to 1203 mm (F=150mm)

(**) 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



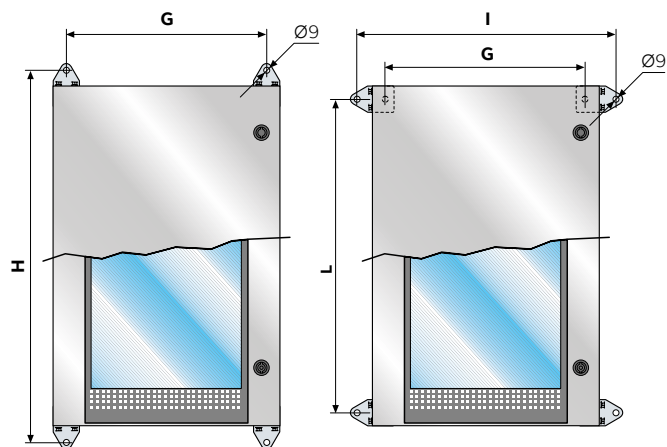
Code	A	B	C	D	E	F (*)	G	H	I	L
SRN3215X	303	203	147	82	133,5	151,5	163	337	237	263
SRN3415X	303	403	147	82	133,5	151,5	363	337	437	263
SRN4315X	403	303	147	82	133,5	201,5	263	437	337	363
SRN4320X	403	303	197	132	183,5	201,5	263	437	337	363
SRN4420X	403	403	197	132	183,5	201,5	363	437	437	363
SRN4620X	403	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

Measurements are expressed in millimeters.

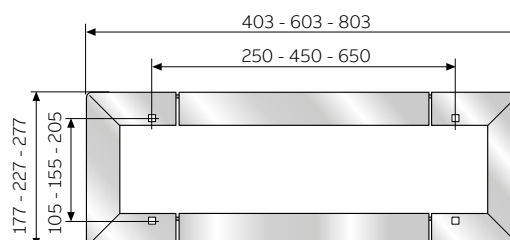
Automation boards - technical details

Overall dimensions – SRX enclosures

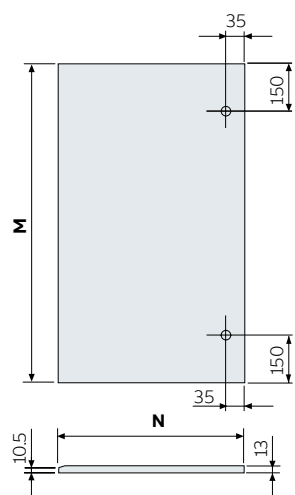
Centre distances for wall-mounting



Centre distances for plinth fixing

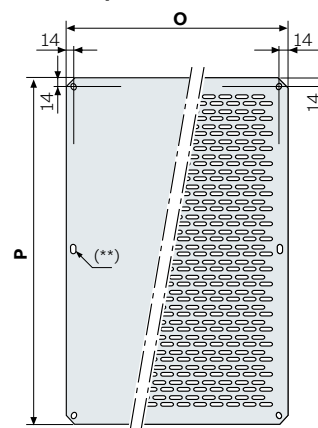


Inner doors



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

Internal plates



Code	O	P
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

* Inner doors with H 500mm, 600mm, 700mm only have one hole in the centre for the lock

Measurements are expressed in millimeters.

