

Enclosures

IP66 Gemini weather proof range

The Gemini series ensures maximum protection in the toughest environments.



ABB is the first manufacturer in the electrical field to use co-injection moulding technique. This process is a “sandwich” of two materials with a compact external covering and an expanded core, guaranteeing the highest level of mechanical protection against impacts (IK10).



The double insulated inner door is made of insulating material and guarantees IP30 degree of protection when the cabinet door is open.

ABB provides full range of compatible low voltage components for control, protection, monitoring and switching.

The Gemini range is revolutionising the market of low voltage electric insulating switchboards as it is the first switchboard made of thermoplastic material, to which the co-injection moulding technique gives the same mechanical characteristics as polyester.

Extremely sturdy, with its rigid covering and expanded internal core Gemini switchboards are IP66, IP30 with the door open afford a very high resistance to chemical and atmospheric agents and guarantees excellent performances even in severe operating conditions.

In distribution and mixed applications, the Gemini switchboard is designed to be fitted with System pro M modular devices and

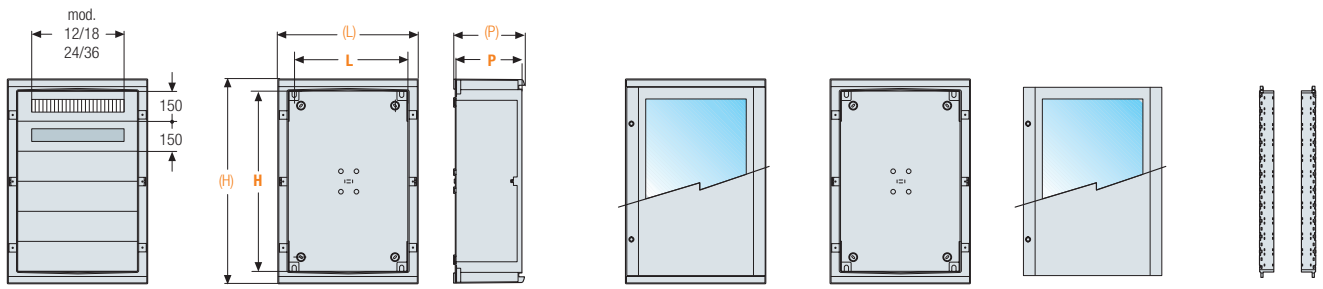
Tmax moulded-case circuit breakers. Gemini switchboards are designed to be compatible with ABB components for low voltage control, protection, monitoring and switching.

Technical characteristics

Compliance with Standards	CEI EN 50298, CEI 23-48, CEI 23-49, IEC 60670, CEI EN 60439-1 CEI EN 62208 - IEC 61439-1-2
Rated service voltage	Ue 1000 V AC - 1500 V DC
Operating temperature °C	-25 °C + 100 °C
Resistance to abnormal heat and fire	up to 750 °C
Degree of resistance to impacts	IK10 (IEC 62262)
Degree of protection (CEI EN 60529)	IP 30 open door IP 66 closed door
Recyclable	100%

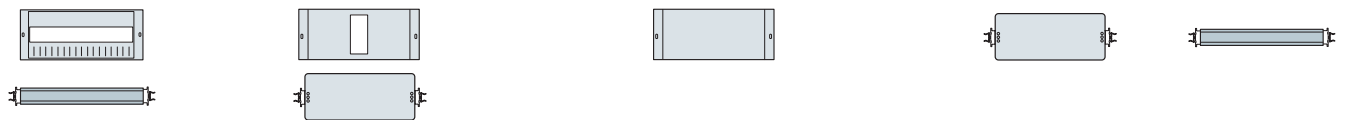
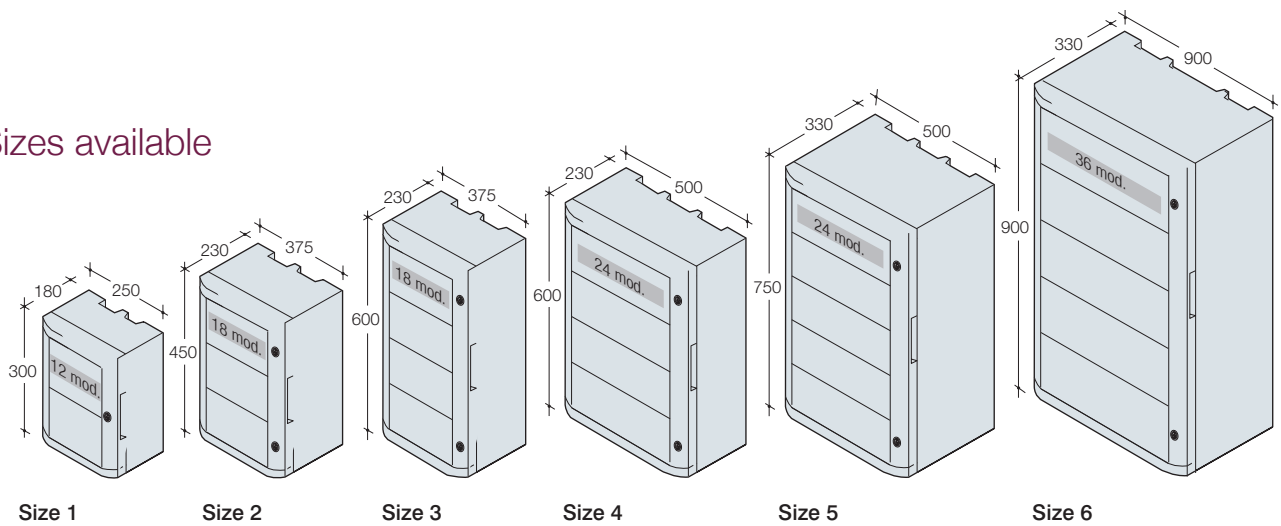
Gemini switchboards

Rapid selection table



Size	No. of vertical mod. H=150mm	No. of DIN modules installable	External dimensions			Internal dimensions			Complete switchboard door			Door		
			(H) mm	(W) mm	(D) mm	H mm	W mm	D mm	Transparent	Opaque	Box	Transparent	Opaque	Uprights
1	2	24 (12x2)	400	335	210	300	250	180	1SL0211A00	1SL0201A00	1SL0221A00	1SL0241A00	1SL0231A00	1SL0283A00
2	3	54 (18x3)	550	460	260	450	375	230	1SL0212A00	1SL0202A00	1SL0222A00	1SL0242A00	1SL0232A00	1SL0284A00
3	4	72 (18x4)	700	460	260	600	375	230	1SL0213A00	1SL0203A00	1SL0223A00	1SL0243A00	1SL0233A00	1SL0285A00
4	4	96 (24x4)	700	580	260	600	500	230	1SL0214A00	1SL0204A00	1SL0224A00	1SL0244A00	1SL0234A00	1SL0285A00
5	5	120 (24x5)	855	585	360	750	500	330	1SL0215A00	1SL0205A00	1SL0225A00	1SL0245A00	1SL0235A00	1SL0286A00
6	6	216 (36x6)	1005	840	360	900	750	330	1SL0216A00	1SL0206A00	1SL0226A00	1SL0246A00	1SL0236A00	1SL0287A00

Sizes available



Size	DIN rail kit DIN rail+drilled panel		Kit for Tmax plate+drilled panel		Blank panel			Modular plate		DIN rail
	1 mod. H=150mm	1+1/2 mod. H=225mm	1 mod. H=150mm	2 mod. H=300mm	1/2 mod. H=75mm	1 mod. H=150mm	2 mod. H=300mm	1 mod. H=150mm	2 mod. H=300mm	
1	1SL0307A00	-	-	-	1SL0318A00	1SL0324A00	1SL0330A00	1SL0296A00	-	1SL0290A00
2	1SL0308A00	1SL0313A00	1SL0336A00	1SL0370A00	1SL0319A00	1SL0325A00	1SL0331A00	1SL0297A00	1SL0302A00	1SL0291A00
3	1SL0308A00	1SL0313A00	1SL0336A00	1SL0370A00	1SL0319A00	1SL0325A00	1SL0331A00	1SL0297A00	1SL0302A00	1SL0291A00
4	1SL0309A00	1SL0314A00	1SL0337A00	1SL0371A00	1SL0320A00	1SL0326A00	1SL0332A00	1SL0298A00	1SL0303A00	1SL0292A00
5	1SL0309A00	1SL0314A00	1SL0337A00	1SL0371A00	1SL0320A00	1SL0326A00	1SL0332A00	1SL0298A00	1SL0303A00	1SL0292A00
6	1SL0310A00	1SL0315A00	1SL0338A00	1SL0372A00	1SL0321A00	1SL0327A00	1SL0333A00	1SL0299A00	1SL0304A00	1SL0293A00

Gemini switchboards

Enclosures

Enclosures and doors

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

Gemini Enclosures

Components are suitable for any type and size of enclosure

Enclosure with Plain Door



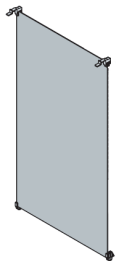
Size HxWxD	Usable Height	Size	Part Number	Product Hierarchy 3100007 Order Code
400 x 335 x 210	300	1	1SL0201A00	1SL0201A00
550 x 460 x 260	450	2	1SL0202A00	1SL0202A00
700 x 460 x 260	600	3	1SL0203A00	1SL0203A00
700 x 590 x 260	600	4	1SL0204A00	1SL0204A00
855 x 590 x 360	750	5	1SL0205A00	1SL0205A00
1005 x 840 x 360	900	6	1SL0206A00	1SL0206A00



Enclosure with Clear Door

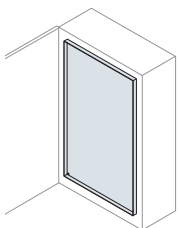
Size HxWxD	Usable Height	Size	Part Number	Product Hierarchy 3100007 Order Code
400 x 335 x 210	300	1	1SL0211A00	1SL0211A00
550 x 460 x 260	450	2	1SL0212A00	1SL0212A00
700 x 460 x 260	600	3	1SL0213A00	1SL0213A00
700 x 590 x 260	600	4	1SL0214A00	1SL0214A00
855 x 590 x 360	750	5	1SL0215A00	1SL0215A00
1005 x 840 x 360	900	6	1SL0216A00	1SL0216A00

Full Mounting Plates



Size HxW	Size	Part Number	Product Hierarchy 3100007 Order Code
285 x 235	1	1SL0259A00	1SL0259A00
435 x 360	2	1SL0260A00	1SL0260A00
585 x 360	3	1SL0261A00	1SL0261A00
585 x 485	4	1SL0262A00	1SL0262A00
735 x 485	5	1SL0263A00	1SL0263A00
885 x 735	6	1SL0264A00	1SL0264A00

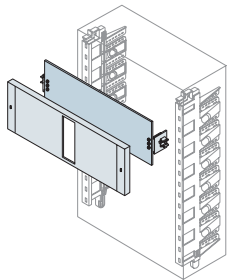
Inner door



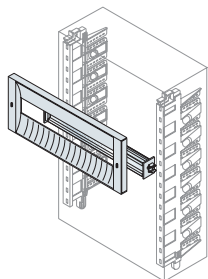
Useful dimensions WxHxD (mm)	Size	No. vertical mod. H=150mm	Part Number	Product Hierarchy 3100007 Order Code
250x300x180	1	2	1SL0251A00	1SL0251A00
375x450x230	2	3	1SL0252A00	1SL0252A00
375x600x230	3	4	1SL0253A00	1SL0253A00
500x600x230	4	4	1SL0254A00	1SL0254A00
500x750x330	5	5	1SL0255A00	1SL0255A00
750x900x330	6	6	1SL0256A00	1SL0256A00

Gemini switchboards

Assembly kits



Kit for Tmax with pre-drilled holes



Installation on DIN rail

Horizontal installation

Fixed circuit-breaker Size with front terminals	No. poles	Dimensions H (mm)	Product Hierarchy 3100007 Order Code		
			2/3	4/5	6
Tmax T1	03/4	150	1SL0336A00	1SL0337A00	1SL0338A00
Tmax T2	03/4	150	1SL0336A00	1SL0337A00	1SL0338A00
Tmax T2+diff.le	3	300	1SL0370A00	1SL0371A00	1SL0372A00
Tmax T3	03/4	300	1SL0370A00	1SL0371A00	1SL0372A00

Vertical installation

Fixed circuit-breaker Size with front terminals	No. poles	Dimensions H (mm)	Product Hierarchy 3100007 Order Code			
			1	2/3	4/5	6
System Pro M compact modular apparatus		150	1SL0307A00	1SL0308A00	1SL0309A00	1SL0310A00
		225	-	1SL0313A00	1SL0314A00	1SL0315A00
Tmax T1-T2-T3	3/4	225	-	1SL0313A00	1SL0314A00	1SL0315A00

Completion structure

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

Upright with incorporated wiring duct

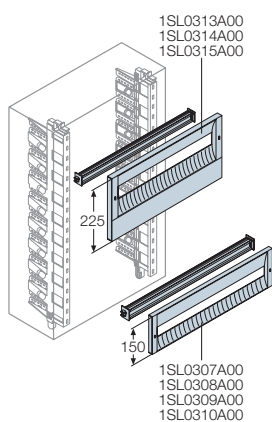
Size	Useful dimensions H (mm)	Product Hierarchy 3100007 Order Code
1	300	1SL0283A00
2	450	1SL0284A00
3	600	1SL0285A00
4/5	750	1SL0286A00
6	900	1SL0287A00

DIN rail Kit

- Front panel + DIN rail complete with supports for press-on fixing onto uprights and adjustable in depth
- Available in two dimensions - 1 module (H 150 mm) and 1 + 1/2 module (H 225 mm, sizes 2-6)
- Preset for hinging on the two vertical sides
- Snap-on assembly on the uprights (in conformity with the reference Standards, the panel can only be removed using a tool)
- Label-holder box for inserting descriptions of the installed apparatus

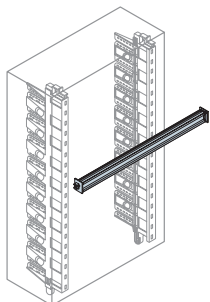
Panel + DIN rail

Size	Panel Dimensions W (mm)	Product Hierarchy 3100007 Order Code
1	300	1SL0307A00
2/3	450	1SL0308A00
4/5	750	1SL0309A00
6	900	1SL0310A00
2/3	450	1SL0313A00
4/5	750	1SL0314A00
6	900	1SL0315A00



Gemini switchboards

Assembly kits

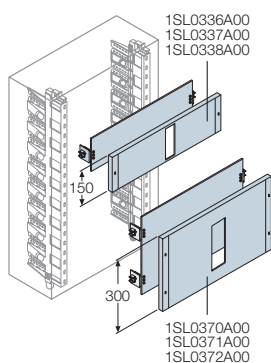


DIN rail

- 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

DIN rail

Size	No. mod. horizontal	Dimensions W (mm)	Product Hierarchy 3100007 Order Code
1	12	210	1SL0290A00
2/3	18	318	1SL0291A00
4/5	24	443	1SL0292A00
6	36	663	1SL0293A00



Completion structure

Kit for installing Tmax moulded-case circuit breakers

- For installing Tmax moulded-case circuit breakers in fixed version with front terminals
- Composed of a plate with special drilled holes and a protection panel with vertical slots that can be hinged on both sides and snap-on mounted (in compliance with reference Standards a tool must be used for removing the panel)
- Available for sizes 2-6
- Version H 150 with drillings for Tmax T1 3 poles (with and without residual current release), Tmax T1 4 poles (with and without residual current release), Tmax T2 3 poles (with and without residual current release), Tmax T2 4 poles (without residual current release)
- Version H 300 with drillings for Tmax T2 4 poles (with residual current release), Tmax T3 3 poles (with and without residual current release), Tmax T3 4 poles (with and without residual current release)
- Snap-on mounting onto uprights with the possibility of adjusting the plate depth.

Plate + panel

Size	Dimensions W (mm)	Product Hierarchy 3100007 Order Code
1 module H=150mm		
2/3	375	1SL0336A00
4/5	500	1SL0337A00
6	700	1SL0338A00
2 modules H=300mm		
2/3	375	1SL0370A00
4/5	500	1SL0371A00
6	700	1SL0372A00

Kit for installing Tmax XT moulded-case circuit breakers

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

Panel + plate

Size	Dimensions W (mm)	Product Hierarchy 3100007 Order Code
1 module H=150mm		
2/3	375	1SL0373A00
4/5	500	1SL0374A00
6	700	1SL0375A00
2 modules H=300mm		
2/3	375	1SL0376A00
4/5	500	1SL0377A00
6	700	1SL0378A00

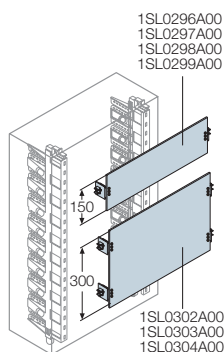
Gemini switchboards

Assembly kits

Completion structure

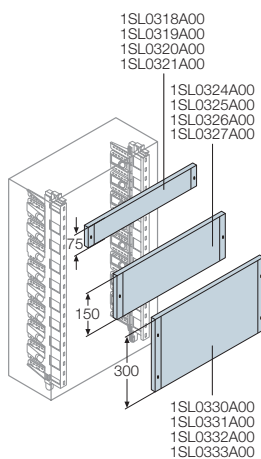
Partial modular plates

- 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



Modular base plate

Size	Dimensions W (mm)	Product Hierarchy 3100007 Order Code
1 module H=150mm		
1	210	1SL0296A00
2/3	318	1SL0297A00
4/5	443	1SL0298A00
6	663	1SL0299A00
2 modules H=300mm		
2/3	318	1SL0302A00
4/5	443	1SL0303A00
6	663	1SL0304A00



Blind front panel

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

Blind front panel

Size	Dimensions W (mm)	Product Hierarchy 3100007 Order Code
1/2 module H=75mm		
1	250	1SL0318A00
2/3	375	1SL0319A00
4/5	500	1SL0320A00
6	700	1SL0321A00
1 module H=150mm		
1	250	1SL0324A00
2/3	375	1SL0325A00
4/5	500	1SL0326A00
6	700	1SL0327A00
2 modules H=200mm		
1	250	1SL0330A00
2/3	375	1SL0331A00
4/5	500	1SL0332A00
6	700	1SL0333A00

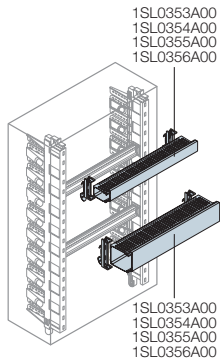
Gemini switchboards

Assembly kits

Completion structure

Wiring kit

- Composed of wiring duct in versions 25x60 mm and 40x60 mm (WxH, 8-12 mm slots) and Fix-O-Rapid device for the rapid snap-on hooking of the ducts on the DIN rail
- Snap-on mounting on uprights with depth adjustment



Wiring duct + Fix-O-Rapid

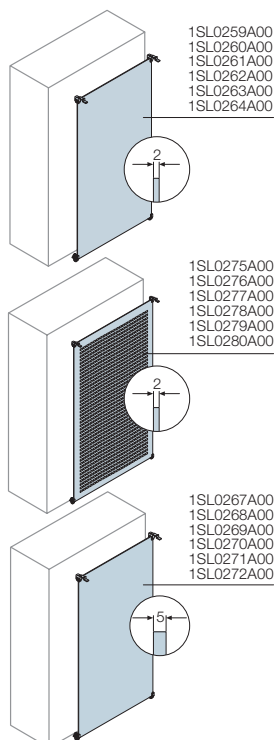
Size	Dimensions W (mm)	Product Hierarchy 3100007 Order Code
Wiring duct 25x60mm		
1	250	1SL0353A00
2/3	375	1SL0354A00
4/5	500	1SL0355A00
6	700	1SL0356A00
Wiring duct 40x60mm		
1	250	1SL0360A00
2/3	375	1SL0361A00
4/5	500	1SL0362A00
6	700	1SL0363A00

Completion structure

Base plates

- Available in three versions made of 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

Base plate



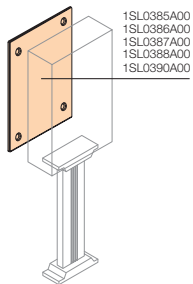
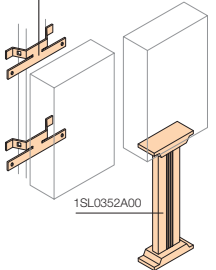
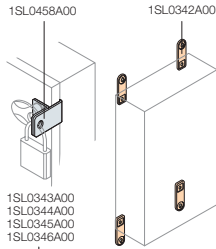
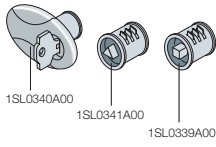
Size	Box dimensions WxHxD (mm)	Product Hierarchy 3100007 Order Code
Blank metal		
1	250x300x180	1SL0259A00
2	375x450x230	1SL0260A00
3	375x600x230	1SL0261A00
4	500x600x230	1SL0262A00
5	500x750x330	1SL0263A00
6	750x900x330	1SL0264A00
Drilled metal		
1	250x300x180	1SL0275A00
2	375x450x230	1SL0276A00
3	375x600x230	1SL0277A00
4	500x600x230	1SL0278A00
5	500x750x330	1SL0279A00
6	750x900x330	1SL0280A00
Insulating material		
1	250x300x180	1SL0267A00
2	375x450x230	1SL0268A00
3	375x600x230	1SL0269A00
4	500x600x230	1SL0270A00
5	500x750x330	1SL0271A00
6	750x900x330	1SL0272A00

Base mounting kit for metal plate

Description	Product Hierarchy 3100007 Order Code
Base mounting kit for metal plate	1SL0383A00

Gemini switchboards

Assembly kits



Locks

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

Description	Product Hierarchy 3100007 Order Code
Lock with Yale type coded key and handle	1SL0340A00
Lock with triangular impression	1SL0341A00
Lock with square impression	1SL0339A00
Kit for vandalproof closure	1SL0458A00

Mounting elements

Guarantee optimum wall, pole and floor mounting conditions.

Description	Product Hierarchy 3100007 Order Code
(4) horizontal and vertical wall brackets (*)	1SL0342A00
Pole mounting kit for sizes 1 switchboards	1SL0343A00
Pole mounting kit for sizes 2-3 switchboards	1SL0344A00
Pole mounting kit for sizes 4-5 switchboards	1SL0345A00
Pole mounting kit for size 6 switchboards	1SL0346A00
Floor mounting pedestal for sizes 1-4	1SL0352A00

(*) types of inserts are provided to adapt the \varnothing 6 and 8 mm fixing brackets.

Base cover

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

Description	Product Hierarchy 3100007 Order Code
Back plugging plate	1SL0342A00
Back plugging plate	1SL0343A00
Back plugging plate	1SL0344A00
Back plugging plate	1SL0345A00
Back plugging plate	1SL0346A00
Back plugging plate	1SL0352A00

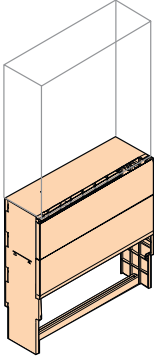
Gemini switchboards

Assembly kits

Accessories

Pedestal

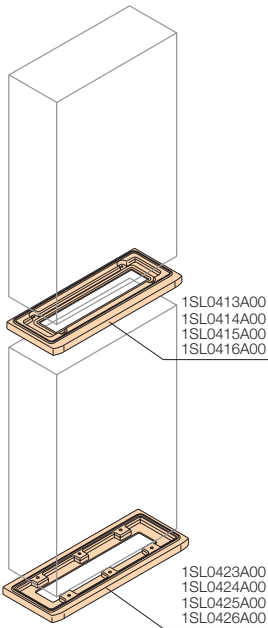
This enables the Gemini switchboard to be secured to the ground without the need to build plinths or foundations in cement since it is the pedestal that is buried.



Size	Description	Product Hierarchy 3100007 Order Code
4	Gemini Pedestal size 4	1SL0464A00
5	Gemini Pedestal size 5	1SL0465A00
6	Gemini Pedestal size 6	1SL0466A00

Coupling kit

Follows the aesthetic outline of the boxes. On request, contact ABB for minimum order quantities.



Size	Description	Product Hierarchy 3100007 Order Code
2/3	Vertical coupling kit for sizes	1SL0413A00
4	Vertical coupling kit for sizes	1SL0414A00
5	Vertical coupling kit for sizes	1SL0415A00
6	Vertical coupling kit for sizes	1SL0416A00

Bottom base H 30

For fixing the Gemini switchboard directly to the floor.

Size	Description	Product Hierarchy 3100007 Order Code
2/3	Bottom base	1SL0423A00
4	Bottom base	1SL0424A00
5	Bottom base	1SL0425A00
6	Bottom base	1SL0426A00

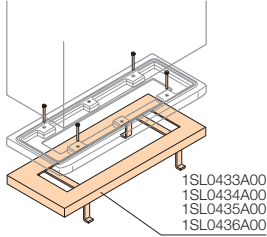
Gemini switchboards

Assembly kits

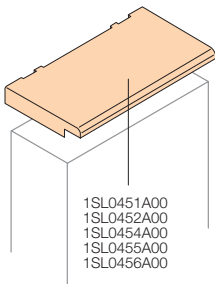
Accessories

Fixed frame

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

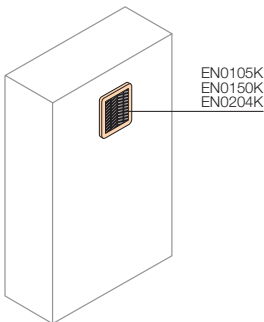


Size	Description	Product Hierarchy 310007 Order Code
2/3	Frame for fixing to floor	1SL0433A00
4	Frame for fixing to floor	1SL0434A00
5	Frame for fixing to floor	1SL0435A00
6	Frame for fixing to floor	1SL0436A00



Full covers

Description	Product Hierarchy 310007 Order Code
Full cover for size 1 switchboards	1SL0451A00
Full cover for size 2-3 switchboards	1SL0452A00
Full cover for size 4 switchboards	1SL0454A00
Full cover for size 5 switchboards	1SL0455A00
Full cover for size 6 switchboards	1SL0456A00



Ventilation kit IP21/54

- Composed of plastic grilles (ABS self-extinguishing UL94V0) and filter
- Degree of protection without filter IP21
- Degree of protection with filter IP54
- Equipped with pre-mounted gasket

Description	Dimensions WxW (mm)	Product Hierarchy 310007 Order Code
Grille + air filter kit	105x105	EN0105K
Grille + air filter kit (cannot be used with Size 1)	150x150	EN0150K
Grille + air filter kit (cannot be used with Size 1)	204x204	EN0204K

Screws not included, use 4 self-tapping screws 2.9x13 or order Code 1SL0384A00

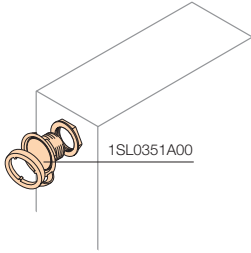
Gemini switchboards

Assembly kits

Accessories

Anti-condensation kit

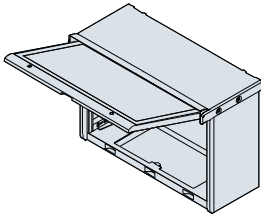
- Kit made of special material to prevent condensation from forming inside the switchboard: it includes GORE™ MEMBRANE VENTING
- Impermeable to water (pressure): 0.6 bar/60 sec.
- Air flow: 400 ml/min. (dp = 70 mbar)
- 1 kit for sizes 1-2, 2 kits for sizes 3-4 and 3 kits for sizes 5-6 are recommended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



Description	Product Hierarchy 3100007 Order Code
Anti-condensation kit	1SL0351A00

Horizontal Gemini kit

Kit to use for opening switchboard upwards in correct manner.



Description	Product Hierarchy 3100007 Order Code
Horizontal Gemini Kit size 2	1SL0470A00
Horizontal Gemini Kit size 3/4	1SL0471A00
Horizontal Gemini Kit size 5	1SL0472A00
Horizontal Gemini Kit size 6	1SL0473A00

Other accessories

Description	Product Hierarchy 3100007 Order Code
Universal drill bit	12 849
Module covers in grey RAL 7035, 4 modules	12 863
Deep adapters	12 851
Small bag containing base plates	1SL0380A00
Small bag containing DIN supports	1SL0381A00
Small bag containing partial plate	1SL0382A00
Small bag containing screws and inserts	1SL0397A00
Small bag containing ventilation kit fastening screws	1SL0384A00
Spare spanner	1SL0457A00