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Low Voltage System

# MNS<sup>®</sup> Low Voltage Distribution Board and Power Cabinet

## Technical Info



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From the sub distribution to factory power supply, from the general industry to the marine, nuclear power plant, MNS<sup>®</sup> power distribution box can provide high security, high reliability of professional solutions.

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# Product Overview

## Applicability

The ABB MNS® low voltage distribution board and power cabinet are a new set of modular and multipurpose low-voltage products. As a member of the ABB MNS family, this particular product is widely used in the lower-level power distribution facilities with MNS® low-voltage switchgear in the following industries:

- Mining
- Wastewater treatment
- Marine
- Petrochemicals
- Utilities . Buildings and housing complexes

## Features

ABB distribution board and power Cabinet conform to GB7251.3-2006. Product includes distribution board, lighting control panel, metering panel, and power cabinet. , They are suitable for wall mounting and floor mounting with front access. In designing the distribution board and power cabinet, ABB drew upon its wealth of experience with low-voltage switchgear and placed a strong emphasis on the product's ease of installation, operations, maintenance, capacity expansion, and protection.

The ABB-MNS® distribution board and power cabinet are of a welded structure. The product comes in a good variety of shapes, and is highly versatile, structurally innovative, and mechanically rigid. Its enclosure is made of cold-rolled sheet steel, stainless steel, or other special materials.



## Technical Data

Standard	Type-tested Assembly		GB 7251.12-2013 GB/T 7251.3
Electrical Parameters	Rated voltage	Rated insulation voltage_Ui	Max.1000V
		Rated operation voltage_Ue	690V / 400V / 230V
		Rated impulse withstand voltage Uimp	6 / 8kV
		Overvoltage category	III
		Degree of pollution	3
		Rated frequency_f	50Hz
	Rated current	Rated current of Main Busbar_Le	Max.800A
Rated short-time withstand current_Icw		Max.30kA	
Rated peak withstand current_Ipk		Max.63kA	
Mechanical characteristics	Dimensions	Refer to Product Manual	
	Surface treatment	Epoxy powder electrostatic coating; coat thickness: 90-200um	
	Spraycolor	Bright grey	
	Degree of protection	IP30-IP67	
	Modular mounting insideboard and Cabinet	Fixed	
	Installation	Wall mounted, wall embedded, or floor mounted	
	Installation Site	Indoor or outdoor	
Material specifications	Sealing material	Neoprene or polyurethane (single-step forming)	
	Enclosure	Cold-rolled sheet steel / stainless sheet steel 1.5 -3mm	
	Mounting plate	Alu-zinc or hot-dipped zinc plate 1.5-3mm	
	Door	Cold-rolled sheet steel / stainless sheet steel 1.5-3mm	

\* Enclosures with a degree of protect above IP54 and enclosures resistant to chemical corrosion are die-cast. Specifications are available upon request.

### Operating Environment

Indoor Installation:	
Minimum temperature	-5°C
Relative humidity	Max. 50% (+40°C)
Short-time maximum temperature	+40°C
24-hour maximum average temperature	+35°C

Note: Higher humidity of up to 90% (+20°C) is permissible when temperatures are low.

### Shipment Temperature

Maximum temperature	+55°C
Minimum temperature	-25°C
Higher temperatures of up to +70°C over a short period (no more than 24 hours) are permissible.	

# Product Classification

## MNS® Distribution Board

### Structural Characteristics:

- Suitable for indoor and outdoor installation. Waterproof awning is applied in outdoor application. Main components include enclosure, electrical mounting parts, electrical components, cables, connecting terminals, and label.
- Electrical components are vertically mounted.
- Enclosure is made of cold-rolled or stainless sheet steel with a thickness ranging from 1.5mm to 3mm, which is bended and welded. Concealed hinged are used. Door are made of a plate with a thickness ranging from 1.5mm to 3mm, which is bended and weld. Coated sheet steel solid welded plate. The outer door can be opened up to 110°, while the inner door can be opened up to 90°.
- The panel is equipped with a removable flange to facilitate top or bottom entry. Products to be mounted on the wall or embedded in the wall come with a wall-mounting slot, and other structures are the same. For wall mounted, the flange is located on the external side of the enclosure, and there is a wall mounted slot on the back of the enclosure. For wall embedded, the flange is located on the internal side of the enclosure, and there is no wall mounted slot on the back of the enclosure.

- The dual-door structure design separates live parts from non-live parts to prevent electrical shock. All operations can be carried out on the parts protruding from the opening on the inner door.
- For design higher than IP54, door is supplied with special sealing.

### Electrical Parameters

Rated frequency	50Hz
Degree of Protection	IP30-IP65
Rated operation current	Max. 400A
Rated operation voltage	690V/400V/230V
Rated insulation voltage	Max. 1000V

### Recommended Enclosure Dimensions

Width: 400 / 500 / 600 / 700mm

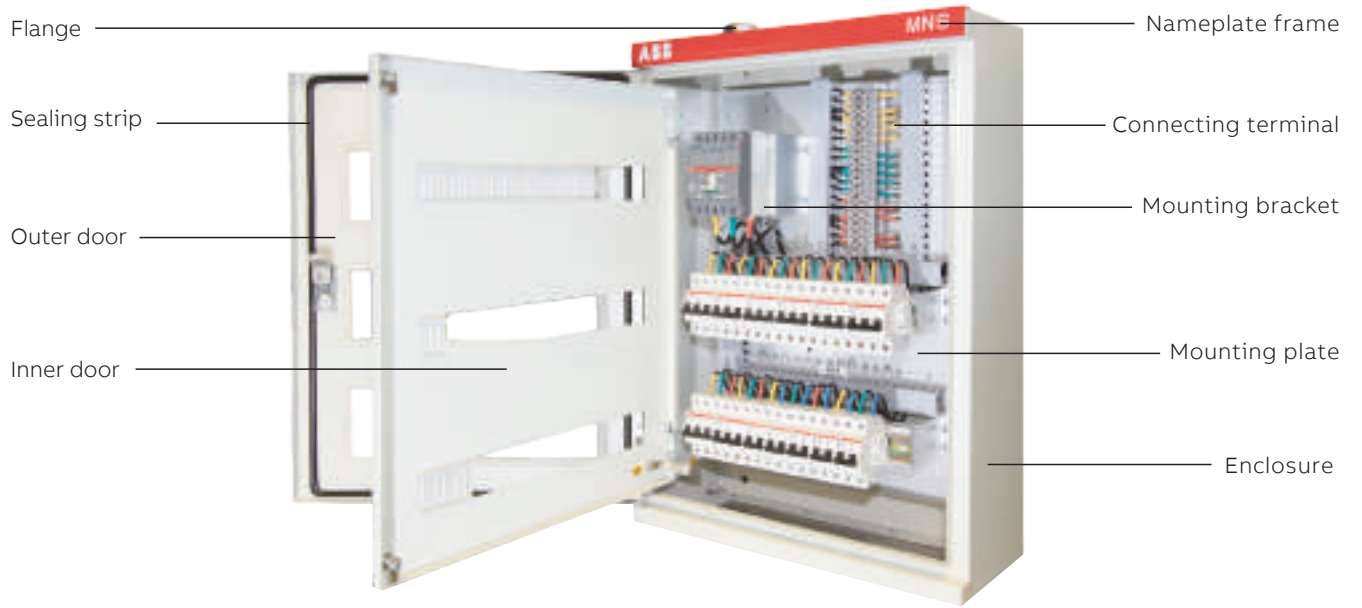
Height: 300 / 600 / 700 / 800 / 900mm

Depth: 150 / 200mm

### Installations Wall mounted

- Wall embedded
- Wall mounted





## MNS® Lighting Control Panel

### Structural Characteristics:

- Products to be mounted on the wall come in a fully metallic enclosure. Optimized design with flat-cover and the concealed cover screws .
- Products to be embedded in the wall come with a metallic bottom plate and a high-quality moulded plastic front cover which is of high rigidity and flame retardant characteristic. Self-positioning plastic front door make it easy for operation and maintenance when door is open.
- Terminal blocks can be arranged on the top or bottom of the panel to suit for top entry and bottom entry design.
- Product Standard: GB7251.3-2006

### Electrical Parameters

Rated frequency	50Hz
Degree of Protection	IP30-IP41
Rated operation current	Max. 100A
Rated operation voltage	400V/230V
Rated insulation voltage	400V

### Recommended Enclosure Dimensions

8/10/13/16/20/23 modules (1 module =17.5mm)





## MNS® Metering Panel

### Structural Characteristics:

- For indoor installation only.
- This product's main components include an enclosure, electrical mounting parts, electrical components, a busbar system, a metering lead seal, cables, connecting terminals, and label.
- The enclosure contains a metering unit, a main switch unit, and a user switch unit. every units have a separate structure and door. The doors can be split doors.
- The enclosure is made of cold-rolled or stainless sheet steel with a thickness ranging from 1.5mm to 3mm, which is bended and welded. Concealed hinged are used. The doors are made of a plate with a thickness ranging from 1.5mm to 3mm, which is bended and welded. The outer door can be opened up to 110°, while the inner door can be opened up to 90°.
- The dual-door structure design segregates live parts from non-live parts to prevent electrical shock. All operations can be carried out on the parts protruding from the opening on the inner door.

### Electrical Parameters

Rated frequency	50Hz
Degree of Protection	IP30 – IP42
Rated current	Max. 400A
Rated operation voltage	400V / 230V
Rated insulation voltage	400V

### Recommended Enclosure Dimensions

W: 300-1100mm

H: 400-2200mm

D: 150-600mm



**MNS® Power Distribution Board (or Power DB)**

**Structural Characteristics:**

- Product suitable for indoor and outdoor installation. In outdoor application, special accessories have to apply for higher protection.
- Typical product includes the following components, enclosure electrical mounting parts electrical devices, busbars, cables, connecting terminals, and label.
- The enclosure is made of welded cold-rolled or stainless sheet steel with a thickness ranging from 1.5mm to 3mm. The doors are made of a plate with a thickness ranging from 1.5mm to 3mm, which is bended and welded. The outer door can be opened up to 110°, while the inner door can be opened up to 90°.
- Power DB is constructed with main busbar compartment and operating compartment for the switch and controlling equipment (for Cabinet with a dual-door structure). Toughened glass can be set on the outer door as an observation window.
- Power DB is equipped with a removable flange, facilitating top or bottom cable entry and exit and making it easier for the user to install cables by drilling holes onsite.

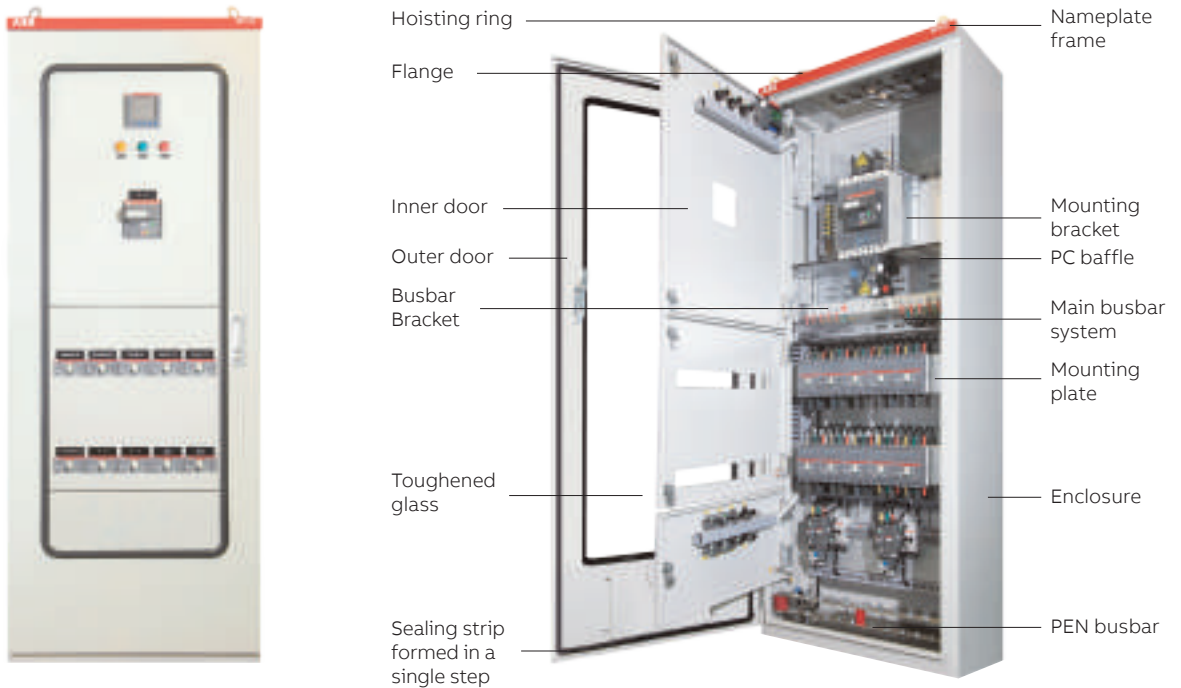
- The busbar can be flexibly installed in an upper, middle or lower position on the Cabinet.
- For products with a protection degree above IP54, the doors will be applied with special sealing.

**Electrical Parameters**

Rated frequency	50Hz
Degree of Protection	IP30 – IP65
Rated operation current	Max. 800A
Rated operation voltage	690V/400V/230V
Rated insulation voltage	Max. 1000V
Rated short-time withstand current	10kA/15kA/35kA
Rated peak withstand current	17kA/30kA/73.5kA

**Recommended Enclosure Dimensions**

W: 600/700/800mm  
 H: 1700/1800/2000/2200mm  
 D: 400-600mm



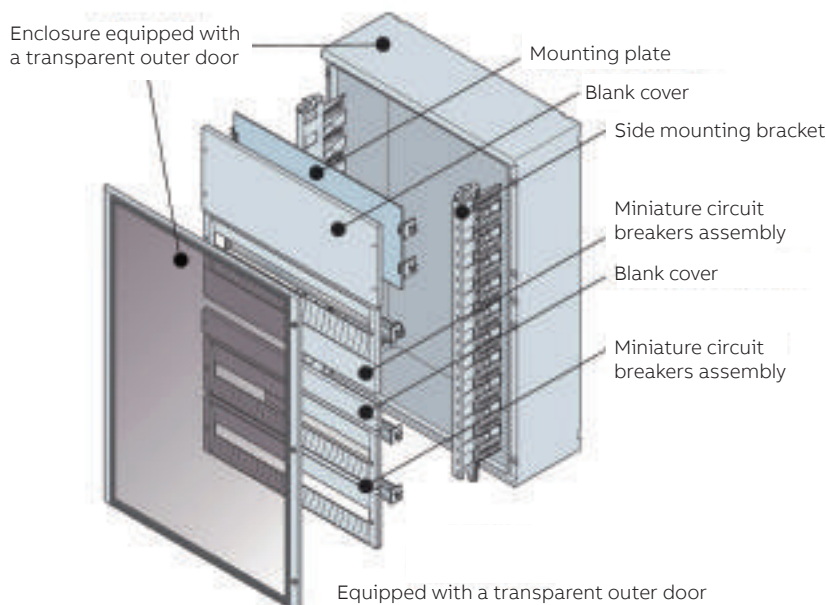
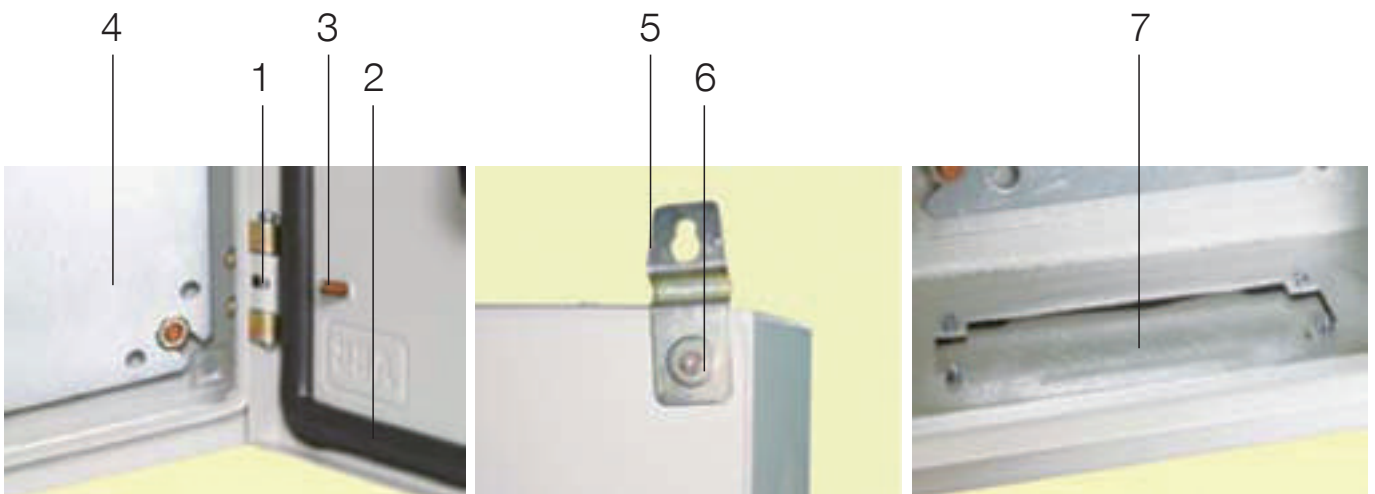
### Enclosures Made of Special Materials

#### Structural Characteristics:

Advanced technologies are employed to form sealing gaskets and the enclosure concurrently. Enclosure materials include special glass fiber reinforced polyester and die-cast aluminum, as well as common PC and ABS. These enclosures are mainly used in industries requiring high levels of corrosion resistance and protection, such as petrochemicals, shipbuilding, and wastewater treatment. Protection can be up to IP67.

1. Built-in High-strength Aluminum Alloy Hinges  
The door can be opened up to 110°.
2. Non-interface Sealing Rings  
The door and its edges are protected with durable and high-elasticity non-interface sealing rings, providing a high degree of protection.
3. Earthing Stud  
The door and the bottom enclosure are equipped with a earthing stud to facilitate grounding .

4. Flexible Bottom mounting Plate  
Bottom mounting plate can be bolted. Components and accessories are installed onto bottom mounting plate. The plate is removable and easy for drilling and components arrangement and installation. External Wall Mounting Bracket.
5. The enclosure comes with a wall mounting bracket, Plastic Plugs
6. If the enclosure is mounted on the wall, the four mounting slots can be sealed up with plastics plugs to ensure a high degree of protection.
7. Cable Entry Gland Plate with Sealing Gasket  
Both the top and bottom of the enclosure are equipped with a cable entry gland plate protected with sealing gaskets, facilitating bottom cable entry and top cable entry while maintaining the degree of protection.



# Electrical Solutions

## Electrical Solutions for Wall Mounted / Wall Embedded

ABB Breakers	Median	Width	Height	Depth	MCB rated current	Mounting	Degree of protection	Rated short-time withstand current
Incoming and outgoing circuit breakers are	19	500	300	150,200	≤160A	Wall mounted	IP30-65	Icw=10kA
MCB: S200-series	30	400	600			or		
miniature circuit breakers; residual	54	500	700			or		
breakers; residual current circuit breaker	72	600	800			or		
	95	700	900			or		

Notes:

- 1.The modules listed in the above table are for outgoing circuit MCBs without terminals. If outgoing terminals are required for the project, the modules should be reduced by half.
- 2.If T connector is used or MCCB is employed as incomer breaker, design space is to be reduced by 5 standard modular size.
- 3.The observation window on the outer door is optional. In outdoor application waterproof awning will be applied.
- 4.The upper and lower flange plates are not pre-drilled but can be pre drilled upon request.
- 5.1 standard modular size = 17.5mm (the width of single-pole MCB)

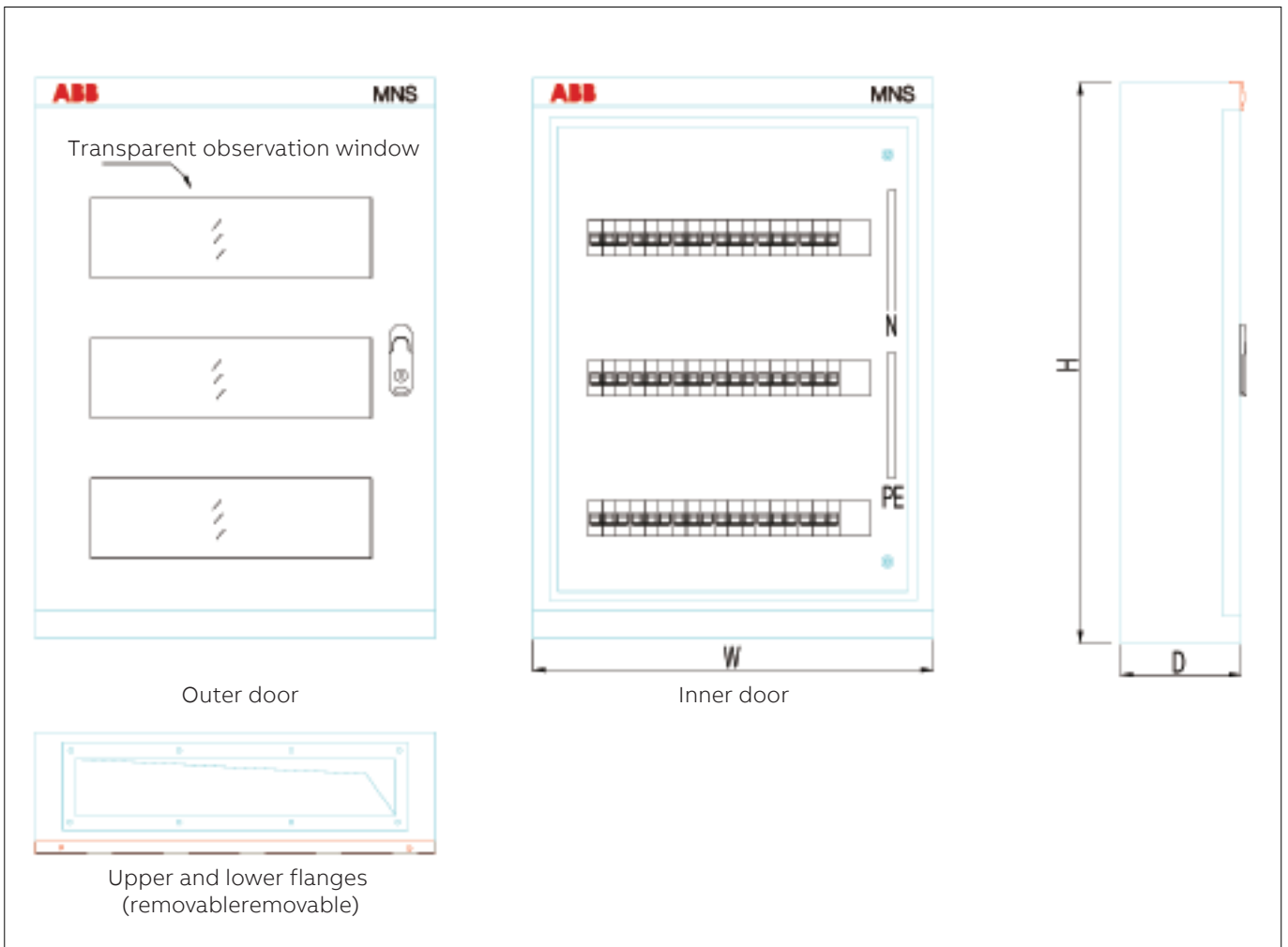


ABB Breakers	Median	Width	Height	Depth	Rated current	Installation	Degree of protection	Rated short-time withstand current
	3	500	300		≤160A	Wall mounted	IP30-65	Icw = 10kA
The switches of both incoming and outgoing circuit are MCCB: T2, 3P	4	400	600					
	6	500	700	150,200				
	9	600	800					
	11	700	900		≤250A			

Notes:

1. The modules listed in the above table are for outgoing MCBs without without terminals. If outgoing terminals are required for the project, the modules should be reduced by one third.
2. The observation window on the outer door is optional In outdoor application, waterproof awning will be applied
3. The upper and lower flange plates are not pre-drilled but can be pre drilled upon request..
4. In the case of 500X700 with one single switch installation current rating can be up to 250A. In the case of 600X800 with one single switch installation, the current rating can rise up to 400A. In the case of 700X900 it goes to 630A.

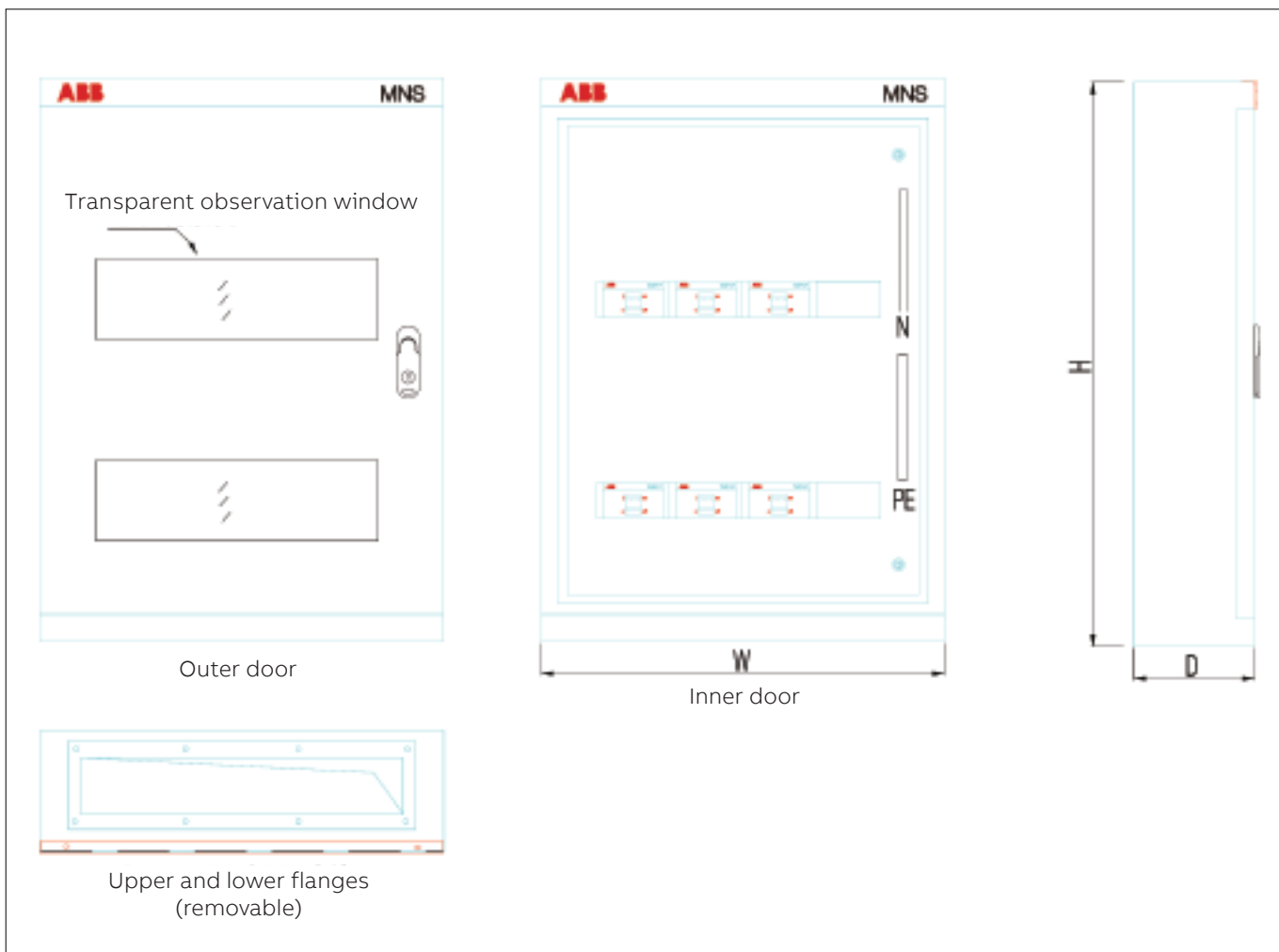
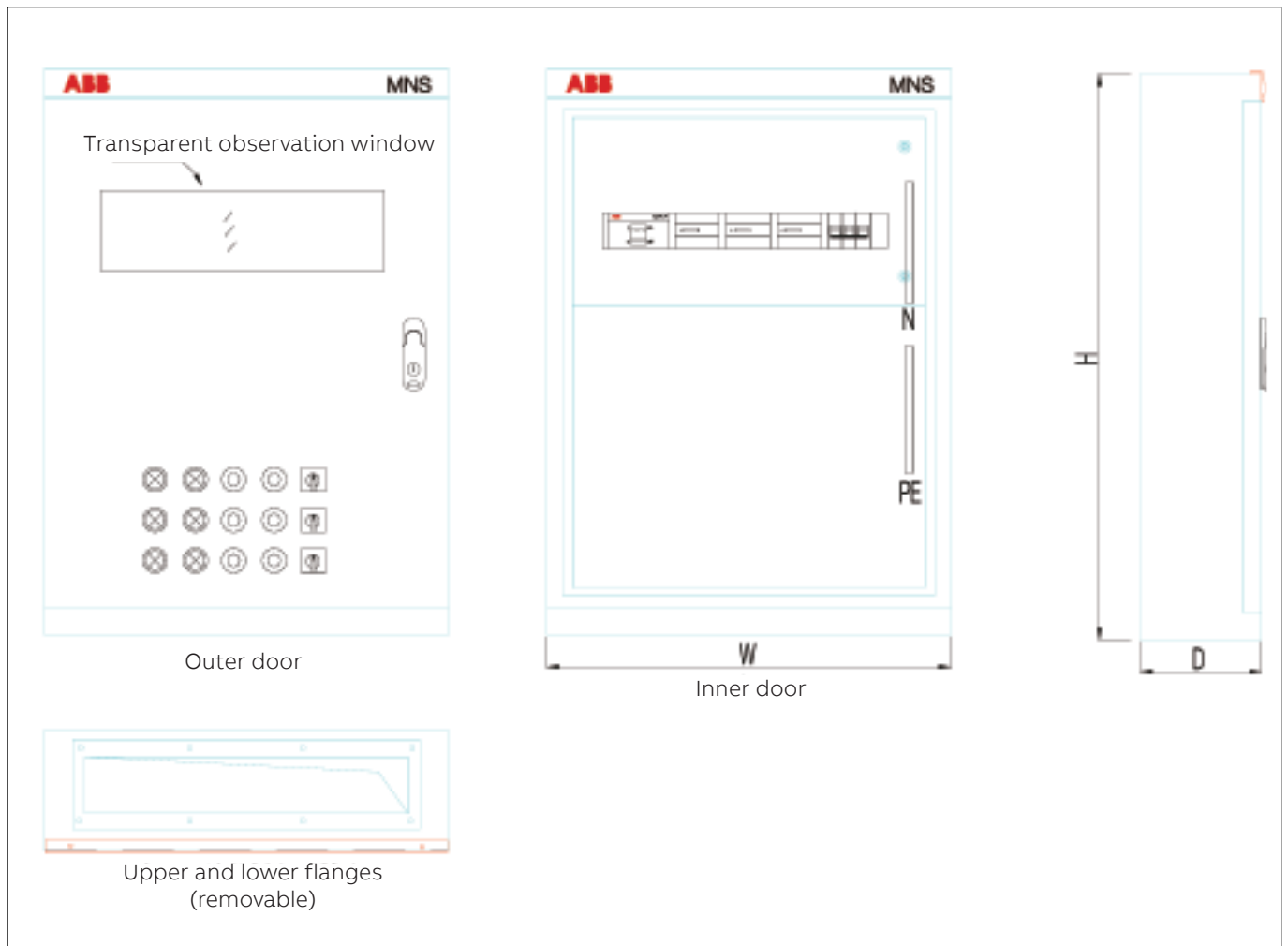


ABB Breakers	Number of motor circuits	Width	Height	Depth	Main switch current rating	Installation	Degree of protection	Rated short-time withstand current
The switches of both incoming and outgoing circuits are: 1.MCCB: T2, 3P 2.MCB: S200-series switches, MS-series motor starters	1	500	300	200	≤160A	Wall mounted Degree of protection	IP30 –65	Icw=10kA
	2	400	600					
	3	500	700					
	4	600	800					
	5	700	900					

Notes:

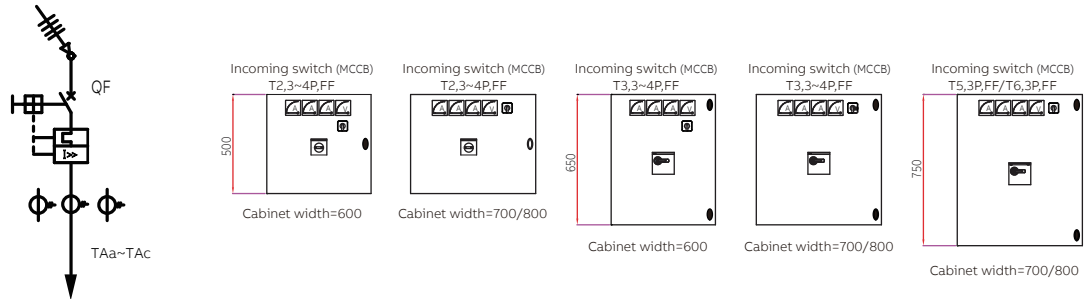
- 1.The observation window on the outer door is optional. In outdoor application, waterproof awning will be applied are not pre-drilled but can be pre drilled upon request.
- 2.Each motor circuit is equipped with two lights, two buttons, and one changeover switch; one contactor is less than A50.
- 3.One thermal overload relay; and there are 20 terminals. The dimensions should be increased if this configuration is exceeded.



### Electrical Solutions for Floor Mounted

Solution No. 01

Main Circuit Diagram  
MCCB Incoming, bustie



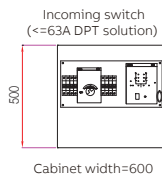
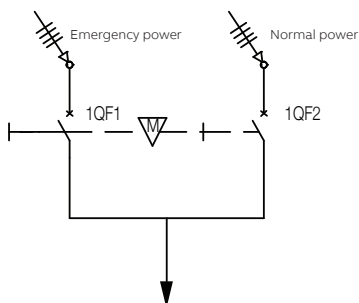
Purpose	Incoming										
Cabinet depth(mm)	400										
Setup of components in Cabinet	Segregated										
Maximum rated current(A)	12.5 -160A			32 - 250A			320 - 630A		800A		
Description, models, specs and quantity of main components	Description of main components		Model & specs	Qty	Model & specs	Qty	Model & specs	Qty	Model & specs	Qty	
	1	Breaker	T1-T2.3P or 4P.FEF	1	T3 250.3P or 4P.FF	1	T5 630.3P or 4P.FF	1	T6 800.3P or 4P.FF	1	
	Switch fuses / load switch / ATS										
	Attachment		When <400A, ES extended terminal is required.								
	2	Contactor									
	3	Thermal overload relays									
	4	Soft starter									
	5	VFD									
	6	Current transformer	LNC2	3	LNC2	3	LNC3	3	LNC4	3	
	7	A-meter				3				3	
	8	V-meter				1				1	
	9	Change-over switch				1				1	
10	Control button										
11	Lamp										
12	Others										
Standard Unit Dimensions (W X H)	600X	550	#								
		650	#								
		750			#		#				
	700X	550	#								
		650	#								
		750			#		#				
	800X	550	#								
		650	#								
		750			#		#				

Solution No.

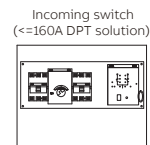
02

Main Circuit Diagram

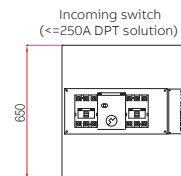
Auto transform switch



Cabinet width=600



Cabinet width=700/800



Cabinet width=700/800

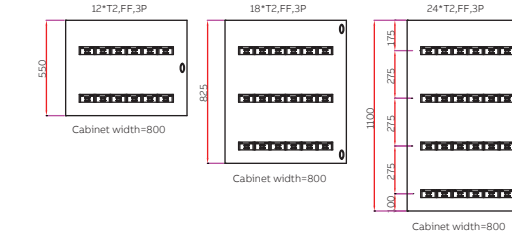
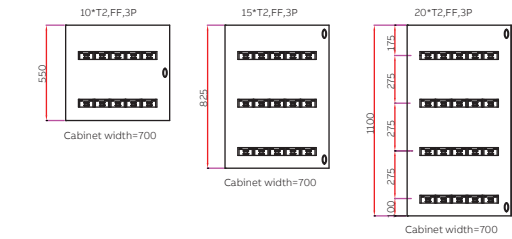
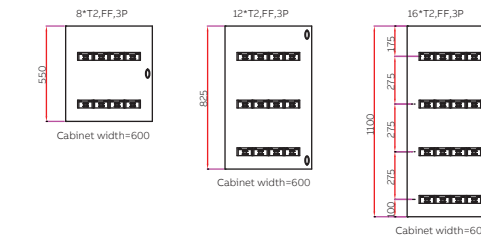
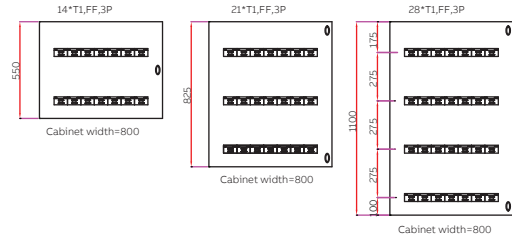
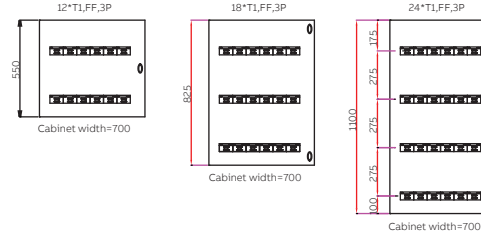
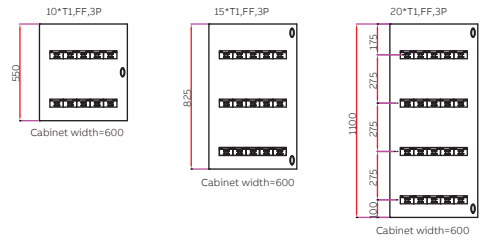
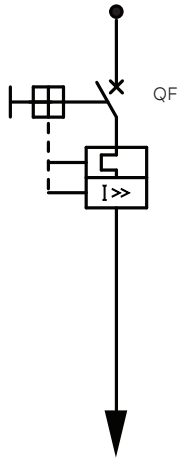
Purpose				Incoming		
Cabinet depth(mm)				400		
Setup of components in Cabinet				Segregated		
Maximum rated current(A)	Max.63A		Max.160A		Max.250A	
Description of main components	Model & specs	Qty.	Model & specs	Qty.	Model & specs	Qty.
1 Breaker						
Switch fuses / load switch / ATS	DPT63-CB011		DPT160-CB011		DPT250-CB011	
Attachment						
Description, models, specs and quantity of main components	2 Contactor					
	3 Thermal overload relays					
	4 Soft starter					
	5 VFD					
	6 Current transformer					
	7 A-meter					
	8 V-meter					
	9 Change-over switch					
	10 Control button					
	11 Lamp					
	12 Others					
	Standard Unit Dimensions (W X H)	600X	550	#	#	
650					#	
750						
700X		550	#	#		
		650			#	
		750				
800X		550	#	#		
		650			#	
		750				



Solution No.

03

Main Circuit Diagram  
MCCB Feed



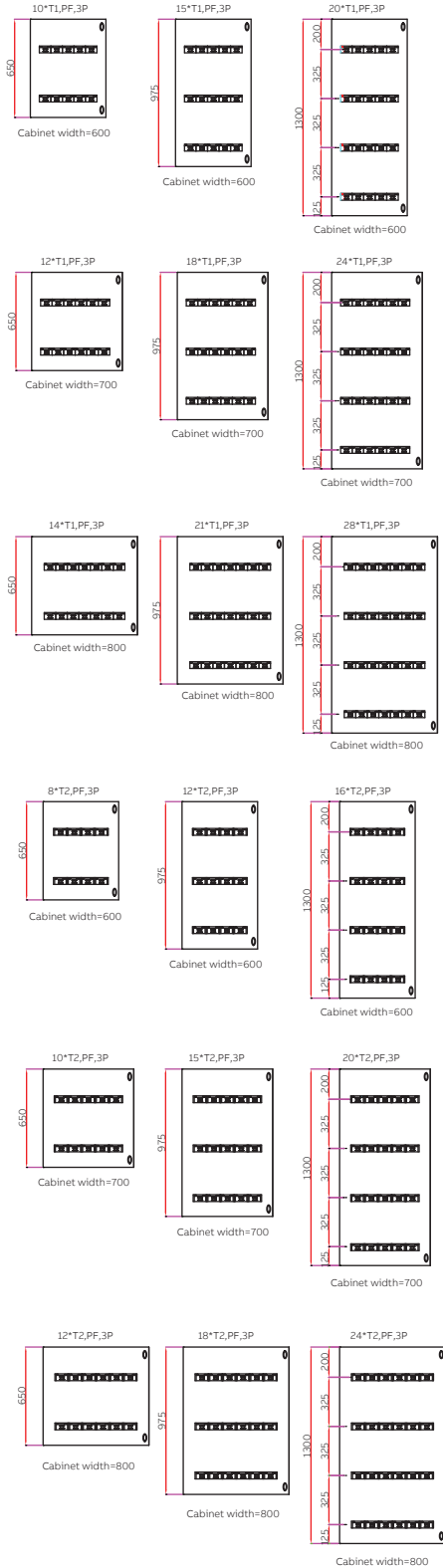
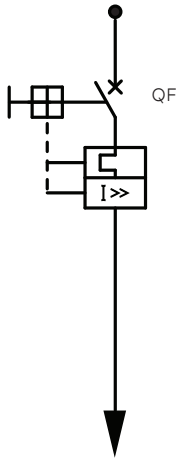
Purpose	Feed		
Cabinet depth(mm)	400		
Setup of components in Cabinet	Centralized		
Maximum rated current	160A		
Description, models, specs and quantity of main components	Description of main component Model & specs		
	1 Breaker	T1-T2,FF,3P	
Standard Unit Dimensions (W X H)	600	550	10*T1,FF,3P
		825	15*T1,FF,3P
		1100	20*T1,FF,3P
	700	550	8*T2,FF,3P
		825	12*T2,FF,3P
		1100	16*T2,FF,3P
	800	550	15*T1,FF,3P
		825	18*T1,FF,3P
		1100	21*T1,FF,3P
		550	12*T2,FF,3P
		825	15*T2,FF,3P
		1100	18*T2,FF,3P
	800	550	20*T1,FF,3P
		825	24*T1,FF,3P
		1100	28*T1,FF,3P
550		16*T2,FF,3P	
825		20*T2,FF,3P	
1100		24*T2,FF,3P	



Solution No.

05

Main Circuit Diagram  
MCCB Feed

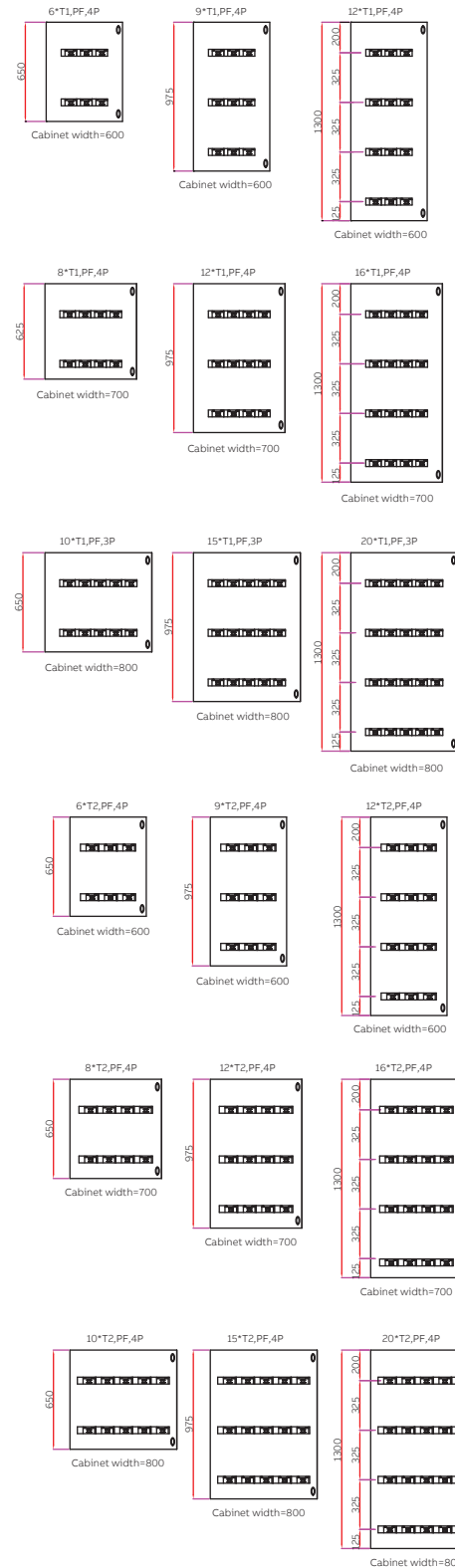
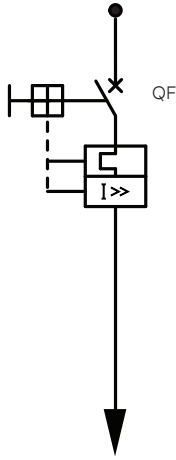


Purpose	Feed		
Cabinet depth(mm)	400		
Setup of components in Cabinet	Centralized		
Maximum rated current	160A		
Description, models, specs and quantity of main components	Description of main components	Model & specs	
	1 Breaker	T1-T2,FF,3P	
Standard Unit Dimensions (W X H)	Others		
	600	650	10*T1,FF,3P
		975	12*T1,FF,3P
		1300	14*T1,FF,3P
	700	650	8*T2,FF,3P
		975	10*T2,FF,3P
		1300	16*T2,FF,3P
	800	650	15*T1,FF,3P
		975	18*T1,FF,3P
		1300	21*T1,FF,3P
		650	12*T2,FF,3P
		975	15*T2,FF,3P
		1300	18*T2,FF,3P
	800	650	20*T1,FF,3P
		975	24*T1,FF,3P
		1300	28*T1,FF,3P
		650	16*T2,FF,3P
		975	20*T2,FF,3P
1300		24*T2,FF,3P	

Solution No.

05

Main Circuit Diagram  
MCCB Feed

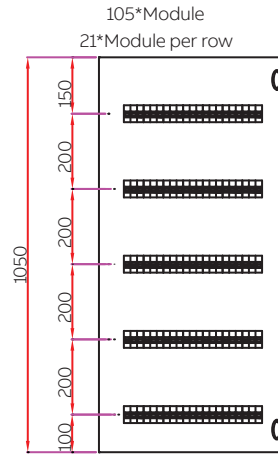
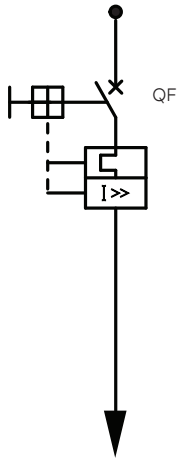


Purpose	Feed		
Cabinet depth (mm)	400		
Setup of components in Cabinet	Centralized		
Maximum rated current	160A		
	Description of main components	Model & specs	
Description, models, specs and quantity of main components	1 Breaker	T1-T2,FF,4P	
Standard Unit Dimensions (W X H)	600	650	6*T1,FF,3P
		975	8*T1,FF,3P
		1300	10*T1,FF,3P
	700	650	6*T2,FF,3P
		975	8*T2,FF,3P
		1300	10*T2,FF,3P
	800	650	9*T1,FF,3P
		975	12*T1,FF,3P
		1300	15*T1,FF,3P
		650	9*T2,FF,3P
		975	12*T2,FF,3P
		1300	15*T2,FF,3P
	650	12*T1,FF,3P	
	975	16*T1,FF,3P	
	1300	20*T1,FF,3P	
	650	12*T2,FF,3P	
	975	20*T2,FF,3P	
	1300	24*T2,FF,3P	

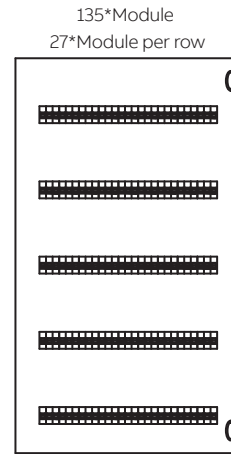
Solution No.

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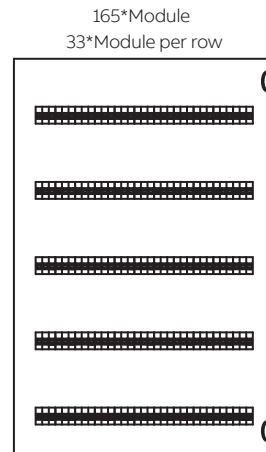
Main Circuit Diagram  
MCCB Feed



Cabinet width=600



Cabinet width=700



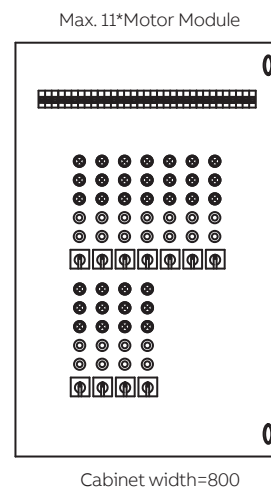
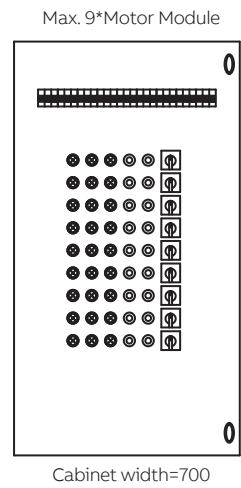
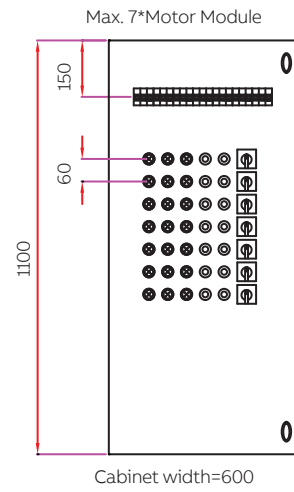
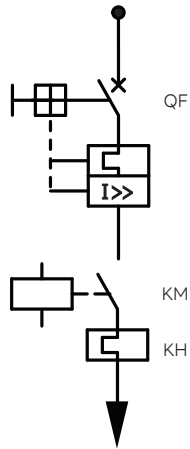
Cabinet width=800

Purpose	Feed		
Cabinet depth(mm)	400		
Setup of components in Cabinet	Centralized		
Maximum rated current	63A		
Description, models, specs and quantity of main components	Description of main components	Model & specs	
	1 Miniature breaker	200 series	
	Miniature adjustable breaker		
Standard Unit Dimensions (W X H)	600	250	21*Module(1*row)
		470	42*Module(2*row)
		650	63*Module(3*row)
		850	84*Module(4*row)
		1050	105*Module(5*row)
	700	250	27*Module(1*row)
		450	54*Module(2*row)
		650	81*Module(3*row)
		850	108*Module(4*row)
		1050	135*Module(5*row)
	800	250	33*Module(1*row)
		450	66*Module(2*row)
		650	99*Module(3*row)
		850	132*Module(4*row)
		1050	165*Module(5*row)

Solution No.

05

Main Circuit Diagram  
MCCB Motor Starting Circuit (Direct Starting)



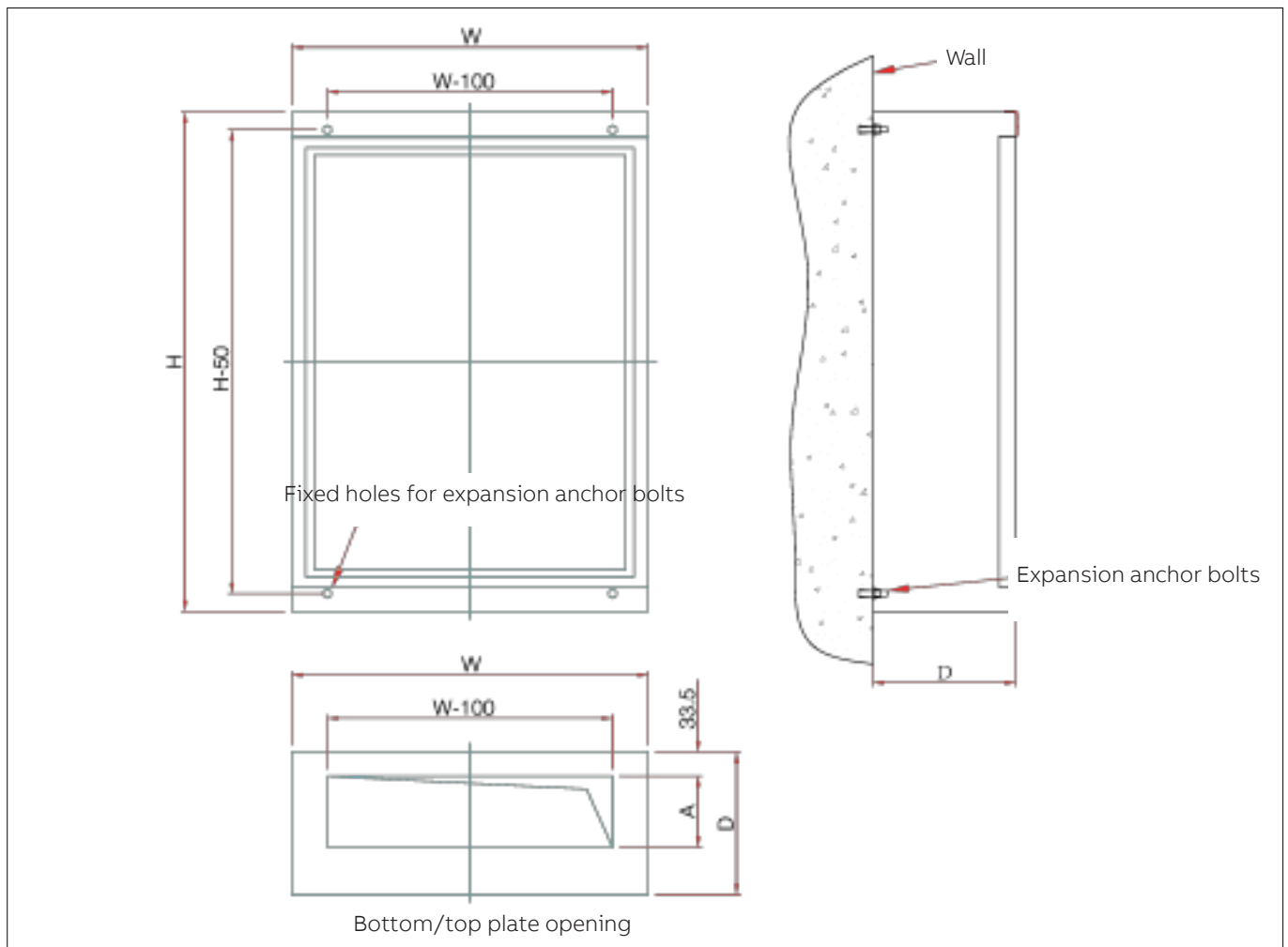
Purpose	Feed		
Cabinet depth(mm)	400		
Setup of components in Cabinet	Centralized		
Maximum rated current	63A(0.37-30KW)		
Description, models, specs and quantity of main components	Description of main components		Model & specs
	1	Miniature breaker	200 series
		Miniature adjustable breaker	
	2	Isolating switch	
	3	Contactor	A9~A63
	4	Thermal overload relays	TA25,TA42,TA75
	5	Others	
Standard Unit Dimensions (W X H)	600	500	2-way
		700	4-way
		900	6-way
		1100	7-way
	700	500	3-way
		700	5-way
		900	7-way
		1100	9-way
	800	500	4-way
		700	8-way
		900	11-way
		1100	14-way

# Installation Guide

## Wall Mounted

Note:

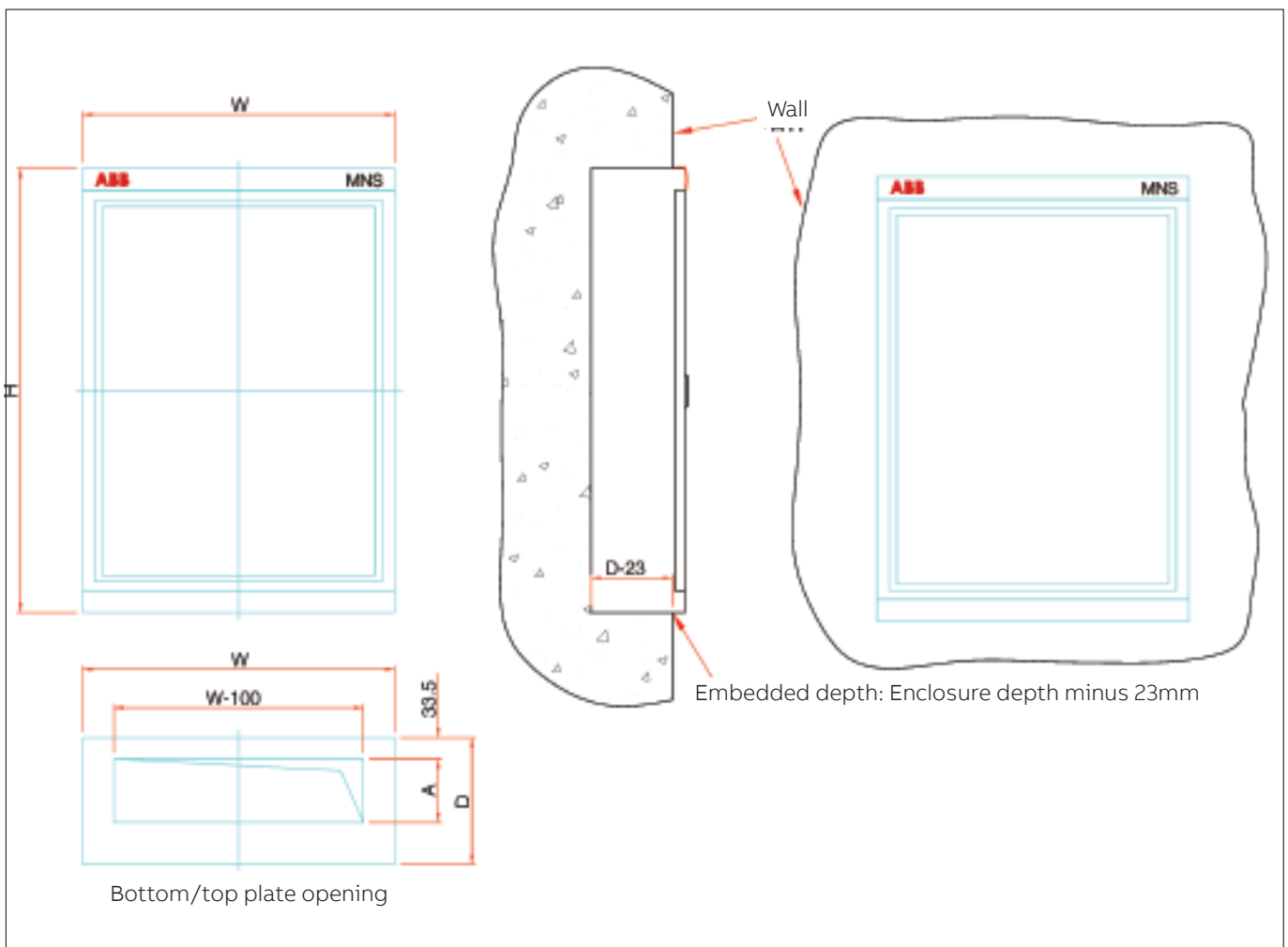
- 1.The upper and lower flanges are removable. An opening can be drilled onsite as needed.
- 2.The maximum opening should not exceed the existing opening on the enclosure. It's recommended that the enclosure be fixed on the wall using four M8 expansion anchor bolts.
- 3.Cabinet width (options: 400, 500, 600 and 700mm); Cabinet height (options: 300, 600, 700, 800 and 900mm); Cabinet depth (options: 150 and 200mm).
- 4.When  $D=150\text{mm}$ ,  $A=70\text{mm}$ ; when  $D>150\text{mm}$ ,  $A=100\text{mm}$ .



## Wall Embedded

Note:

1. The upper and lower flanges are removable and knock-down holes can be provided. An opening can be drilled onsite as needed. The maximum opening should not exceed the existing opening on the enclosure.
2. Cabinet width (options: 400, 500, 600 and 700mm); Cabinet height (options: 300, 600, 700, 800 and 900mm); Cabinet depth (options: 150 and 200mm).
3. The wall should have an opening where the enclosure can fit in. After fitting in, the gaps around should be filled up to keep the enclosure in place.
4. When  $D=150\text{mm}$ ,  $A=70\text{mm}$ ; when  $D>150\text{mm}$ ,  $A=100\text{mm}$ .

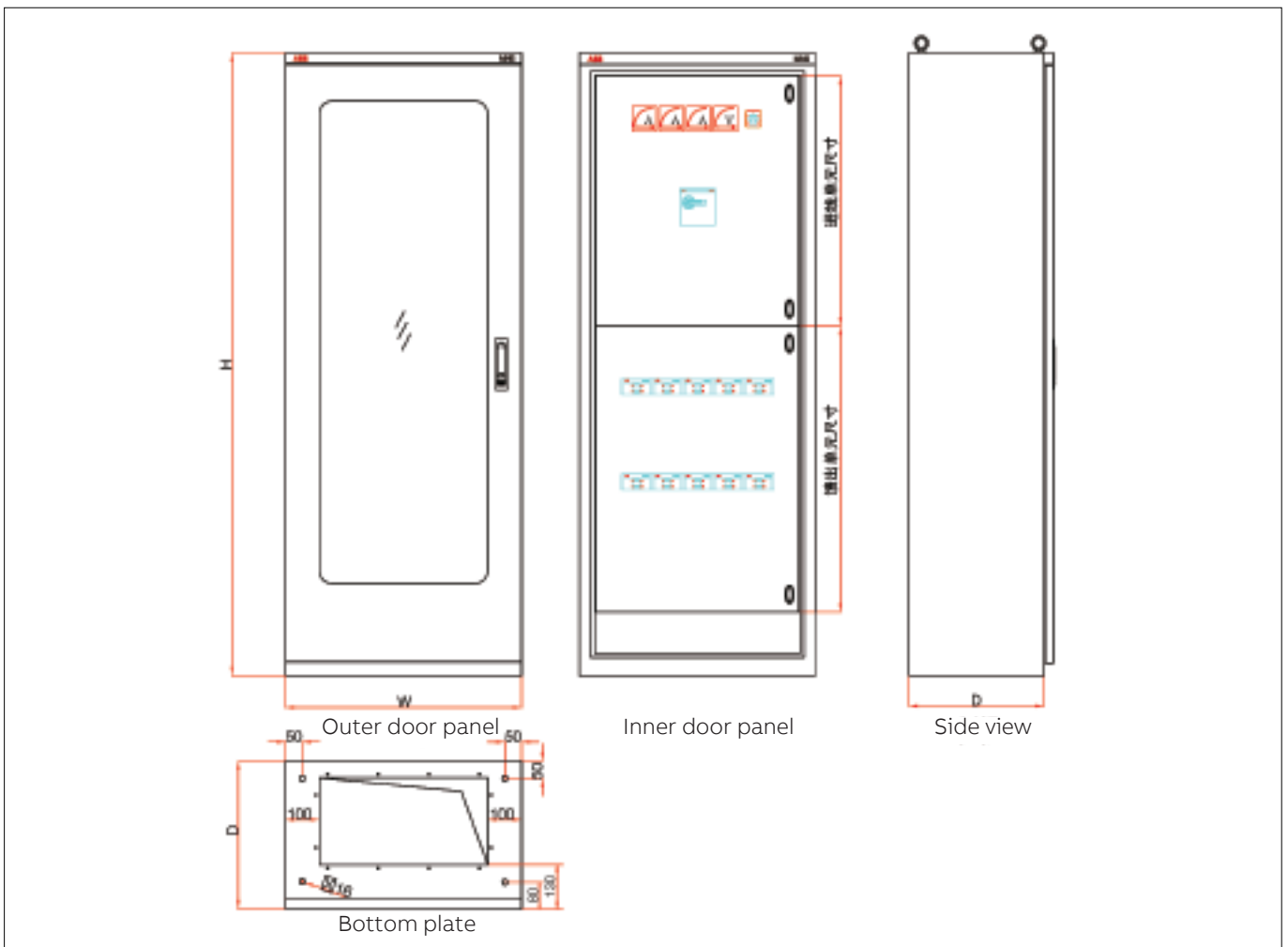




### Floor mounted

Note:

- 1.The cable chute opening on the foundation pedestal should preferably be as large as the bottom plate opening.
- 2.The dimensions of the cable bridge on top of the Cabinet should preferably be smaller than or equal to the dimensions of the top plate opening.
- 3.The Cabinet should preferably be fixed in place using four M12 expansion anchor bolts.
- 4.Cabinet width (options: 600, 700 and 800 mm); Cabinet height (options: 1700, 1800, 2000 and 2200mm); Cabinet depth (standard: 400mm).



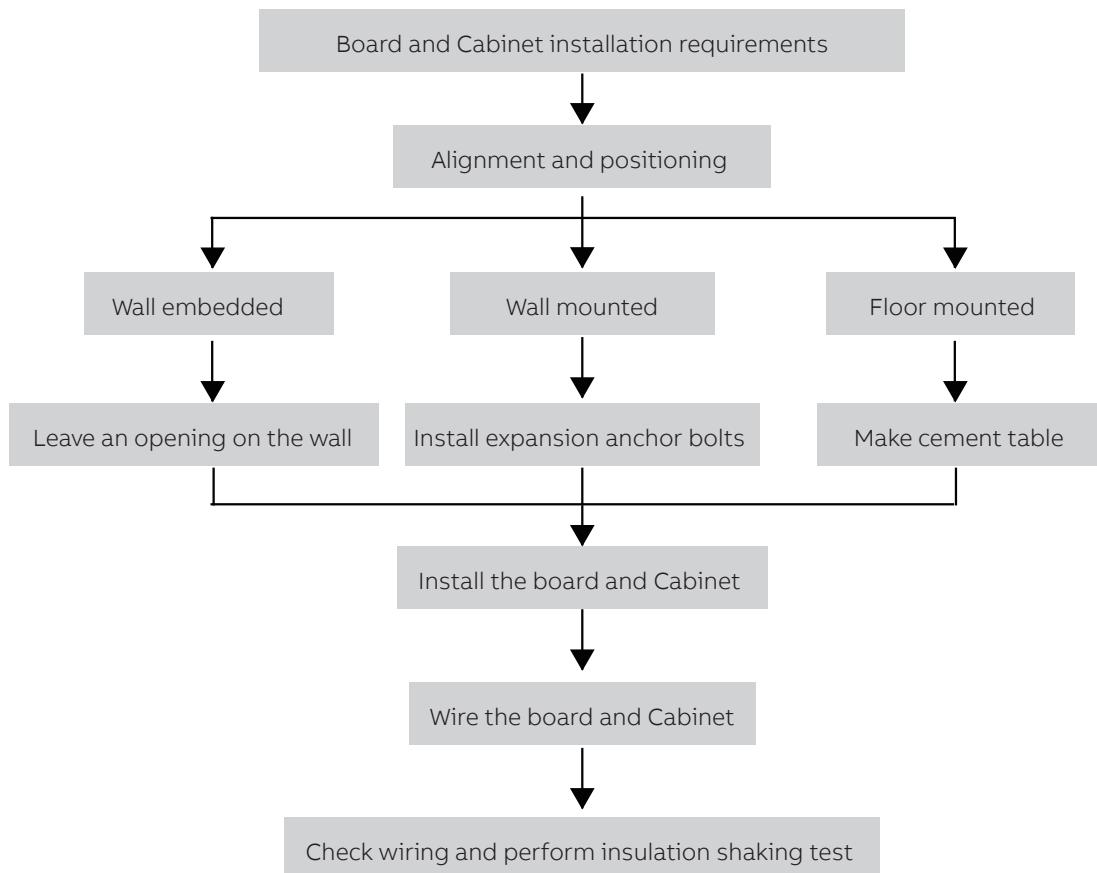
### Installation Site Requirements:

- 1)The construction of the room where the board and Cabinet will be mounted should have been completed. The elevation, dimensions, structure and embedded pieces of the civil work should conform to design requirements. The doors and windows should be closed, the painting of the walls and the rooftop should have been completed, there should be no water leakage, and the flooring should have been completed, and the floor should be clean.
- 2)If the product is to be wall-mounted or wall-embedded, a mounted position should be reserved in the civil work, and plastering, guniting and painting should have been completed.
- 3)A complete set of construction drawings and equipment technical documents should be provided. Construction organizing and technical, quality, safety, and fire protection measures should be in place.

### Equipment Unpacking and Inspection:

- 1)The boxes containing the equipment should be opened for inspection by the installer in the presence of the vendor, builder, and supervisory institute. The inspection should be documented.
- 2)Check the quantity of equipment against the design drawings, equipment list and technical documents. Check the specifications and models of the equipment and its attachments and spare parts against the packing list. They should conform to the requirements of the design drawings. The product quality certificate, the user's manual and other documents should be in order.
- 3)Perform a visual inspection of the panel and Cabinet. The enclosure must be free of signs of damage or deformation, and the painting should be complete, free of scratches, and uniform. Check the insides of the panel and Cabinet. The electrical devices and components and insulation must be in order, firmly fixed, and free of signs of damage. And there should be no missing parts.

### Installation Flowchart



# Product Credentials

## List of Users

### Chemical and Petrochemicals

- Dow Chemicals
- BP
- DuPont
- Bayer (Shanghai) Polymer
- CNOOC & Shell Nanhai Petrochemicals
- Shell Changbai Gas Field
- Shanghai SECCO Petrochemicals
- Sinopec Shijiazhuang–Taiyuan Oil Pipeline
- Nanjing Hercules
- Yangzi Petrochemicals
- Fujian Petrochemicals
- Hainan Shihua Refinery
- Baoji Oil Drilling Platform
- Liaohu Petrochemicals
- Sateri Jiangxi Chemical Fibers
- Dushanzi Ethylene
- Ningxia Oil Refinery
- Shanxi Liulin Coal
- Central Iraq Oil Refinery
- Sudan FULA Oil Gas
- Saudi Yanbu Petrochemicals
- Guangzhou Petrochemical A6GB Project

### Power Plant

- Sanmen Nuclear Power
- Haiyang Nuclear Power Plant
- Qinshan Nuclear Power Phase II
- Gansu Jingyuan Power Plant
- Jiangxi Electric Power Dispatching Center
- Vietnam Cam Pha Power Plant
- Vietnam Qingfeng Waste Heat Power Generation Project
- Dalian Yanshui Substation
- Fuchun River Hydroelectric Plant
- GuizhouWujiangdu Power Plant
- Hunan Zhexi Hydropower Station
- Hunan Wanmibo Hydropower Station
- Vietnam Jiaying Power Plant
- XichangXixi River Joint Replenishment Power Station
- Vestas Wind Power
- Thailand Capital Cogeneration Plant

### Metals & Mining

- Mongolia Gold Mine

- Heihe Luoke Dong'an Gold Mine
- Guizhou Jinfeng Gold Mine
- Kazakhstan Copper Mine
- Western Mining Co., Ltd. - Kaldor Furnace

- Kunming Iron & Steel Plant
- Shanghai Baosteel
- Taiyuan Stainless Steel
- Turky Steel Plant
- Pingguo Aluminum Power Plant
- Xiashun Aluminum Foils
- Zhongzhou Aluminum
- Bulgaria Cement Project
- Saudi Ma'aden Project

### Shipping & Ports

- Guangzhou Nansha Port
- Shenzhen Luohu Port
- Baosteel Majishan Port

### Transport

- Shaanxi-Beijing Line 2 Yulin Gas Compressor Station
- Jiangyin Yangtze River Bridge
- Shenzhen Metro
- Shenzhen Airport
- Hangzhou West Lake Tunnel
- Ji'nan Electric Power Tunnel

### Manufacturing

- Shanghai Bekaert Special Steel Curtains & Cords
- Shanghai Port Machinery Heavy Industry
- Boeing Tianjin
- Pan-Pacific Automotive Technology (Dalian)
- Suzhou BOSCH
- Changzhou Hengli High-pressure Cylinder Wujin New Factory
- Changqing Electrical
- Fuyao Glass
- TEDA Blades Phase III
- GITI Putian
- Fujian LongyanSande Cement
- Moroccan Cement
- Saudi Cement
- Belarusian Cement
- Kerychef Cement

### Pulp&Paper

- Nanning Phoenix Paper
- Sun Paper
- Zhenjiang Jindong Paper
- Dagang APP Paper

- Kunshan Banknote Paper
- Chenming (Hanyang) Paper
- Nine Dragons Paper

### Tobacco

- Shanghai Cigarette Factory
- Shenzhen Cigarette Factory
- Tianjin Cigarette Factory
- Xiamen Cigarette Factory
- Kunming Cigarette Factory
- Changde Cigarette Factory

### Water Treatment

- Taiyuan City Water Supply
- Zhangjiagang No. 4 Waterworks
- Tianjin Jieyuan Waterworks
- Guilin Waterworks
- Guilin Dongjiang Waterworks
- Guilin Chengbei Waterworks
- Guangxi Langdong Boosting
- Station Lingtie Waterworks
- Xiaohongmen Sewage Treatment Plant
- Wenzhou Shan Creek Hydro Project
- Dagang Oilfield Group Sewage Treatment
- Xiamen Wastewater Treatment Plant
- Huangshi Drainage Company Pumping Station
- Wuyao Waterworks
- Mauritius Sewage Treatment Plant

### Data Centers

- Fujian Nanping Mobile
- Kunming Mobile
- Shandong Jining Mobile
- Shanghai Mobile World Expo Information Pavilion
- Weihai Mobile
- Yantai Mobile
- East China Sea Telecom
- Fujian Sanming Telecom
- Shenzhen Huawei Group Data Center
- Nanjing Huawei Software Base
- Xiamen Dell Computers
- Lucent Qingdao
- China Post Project
- Hebei Langfang Range Information Port
- Suzhou Pacific Insurance Building Project

- Pacific Insurance Chengdu Support Center
- Beijing Television
- Center Wutongshan TV Tower
- Shanghai Wenguang Media
- Shenzhen Media Transmission
- Xiamen Media Digital TV
- Xiamen Radio 203
- Bank of China Quanzhou Branch
- International Bank Xiamen Branch
- Xiamen ICBC Computing Center

### Electronic

- Beijing Monocrystalline Silicon Plant
- Shenzhen SEG Samsung
- Shenzhen STS Microelectronics
- Gore Electronics (Shenzhen)
- Zhuohai East Photoelectron
- Fujian CPT Display Technology
- Fujian Huanguang Optoelectronics
- Chengdu Zhukuang Electronics
- Chunghwa Picture Tubes (Fuzhou)
- Xianyang Rainbow Electronics

### Municipal Facilities

- Beijing Academy of Military Medical Science
- Beijing Restaurant
- Jiangnan Institute of Computing Research
- Mozambique Consulate
- Shanghai New International Expo Centre
- Shenzhen Customs
- Xiamen Customs
- Xiamen Comprehensive Sanitation Treatment Plant
- Xiamen Municipal Bureau of Land and Housing Management

### Commercial Building

- Shanghai Chung Shing Commercial Centre
- Xiamen Real Estate Building
- Xiamen Lu Hai Hotel
- Xiamen China Town

### Consumer Goods

- Colgate
- Kerry Oils & Grains (Qingdao)
- Xiamen Springs Barley
- Nutricia Qiqihar Dairy Factory
- Sea Oil Industry (Fangcheng Port)
- AstraZeneca

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