

Stock code: 832124

2017

Electrical Products Volumn for Marine



ABB

SE-CORP 东南股份
凝聚众智 创新制造



Company Profile

Nanjing Southeast Industrial Equipment Corporation (SECORP) is a public company on the list of National Equities Exchange and Quotations (NEEQ). The abbreviation is Southeast Share and stock code is 832124.

We obtained ISO9000:2008 certification from China Classification Society, BV Factory Approval Certificate, GL Recognition Certificate for Welding Workshop Process, CCS, DNV-GL, LR, BV, ABS, NK and other main classification society certificates of the world.

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In order to develop marine power distribution capacity, ABB visited and examined the domestic factories with relevant qualification. In April, 2017, our company has passed the ABB Licence examination and obtained the ABB brand licensing and patent licensing.

ABB present following four aspects for licensees to ensure the related power distribution products can reach the international quality requirements of the ABB products.

- Technical support: ABB provides training and technical guidance for design, installation, process and commissioning.
- Production assistant: ABB provides components and panel type, and assign technical personnel for field supervision, to meet the ABB quality system.
- Quality inspection: ABB carries out quality control and testing, to satisfy the international standards and award ABB brand identity.
- After-sales service: ABB vessel global business services network center provides global after-sales service.

Product profile

MD190-M combination low-voltage switchgear cabinet (hereinafter referred to as MD190 - M) for marine is a kind of low-voltage switchgear cabinet designed for marine and offshore engineering by ABB based on the concept of modularized combination low-voltage switchgear cabinet. The technical standards conform to the international standards IEC60092, AS3439-1, BS5486-1, EN60439-1 and IEC60439-1, the, and the Chinese standards, GB/T11634-2000 and GB7251-1. I also satisfy the specification requirements of the classification society of CCS, LRS, ABS, DNV, BV, GL and NK.



Product application scope

- Marine power distribution system
- Offshore oil drilling platform
- Ports, docks

Product features

- ABB full series of low-voltage electrical components are used, including Emax air circuit breaker, Tmax series molded case circuit breaker, A contactor, TA series thermal relay, PST \ PSTB soft starter, PLC programmable controller and frequency converter, which consist of a complete and reliable low-voltage distribution system.
- The cabinet body is made of high strength profiles and connected by bolts, which increase the stability of the switch cabinet structure.
- The width, depth and height of the modular cabinet framework can be varied according to the design plan.
- Arrangement compact, space and cost saving.
- The fixed cellular type and draw-out unit components can be combined freely, make the cabinet universal, assembly flexible and adaptability strong.
- The switchgear cabinet provides different IP grade and internal isolation type, and can be chosed as customers' special requirements.

Frame structure

The frame system of MD190-M takes the 190 (mm) as a standard module (1U), and also takes the external frame and internal frame as the basic structure, which improve the strength of the switchgear.

The enclosure protection grade of the MD190-M is IP31 or IP32, also can satisfy IP54 as request. On the front, the door panel can be opened from right and left, the door panel is equipped with waterproof rubber sealing strip and grounding screw. On the back, the door closure or door panel can be used, both with waterproof rubber sealing strip and cooling vents. Insulation armrest can be installed on the front and back, and lighting lamp can be mounted on the top of cabinet front side (if necessary, the lighting lamp can be mounted on the top of cabinet back side).



The width, depth, and height of the cabinet body of MD190-M can be modified and combined into different outline dimension based on the 190 mm module, as follows:

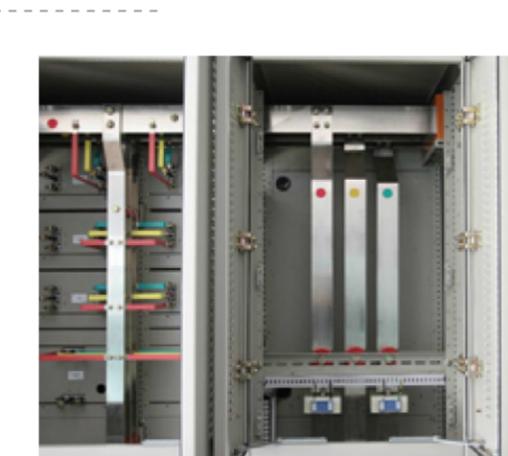
	Width	Depth	Height
External frame dimension	380/570/760/ 950/1140	760/950/1140	2185
Cabinet internal dimension		820/1010/1200	

The frame internal is divided into three isolated function chambers

- Unit component's device chamber
- Main bus and distribution bus chamber
- Inlet and outlet cable chamber (inlet and outlet from upper and lower)

Bus system

- The main bus is mounted in the bus chamber, and can be installed at different position from up and down in the cabinet.
- The capacitance of the main bus is from 800A to 6300A.
- The distribution bus is mounted in vertical way, with a capacitance from 800A to 3200A.

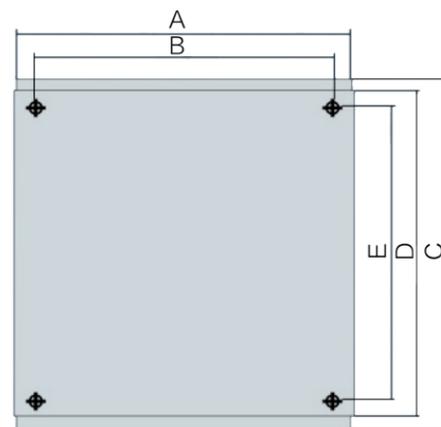
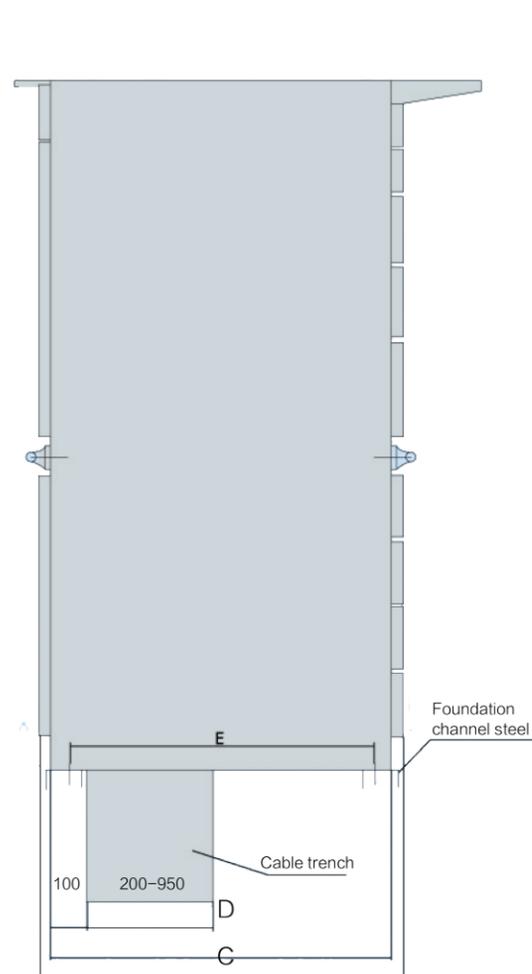


Configuration ➤

- MD 190-M is configuration flexible and can be combined into a variety of marine distribution panel, such as generator panel, synchronous coupling panel, load panel and combination start panel, etc.
- The combination start panel can be equipped with a variety of ABB low voltage electrical components, such as contactor, thermal relay, soft starter, PLC programmable controller, inverter, and other control electrical components, etc., also can provide various of motor control plan, such as direct start, reversible start, star delta start, soft start and frequency conversion start.

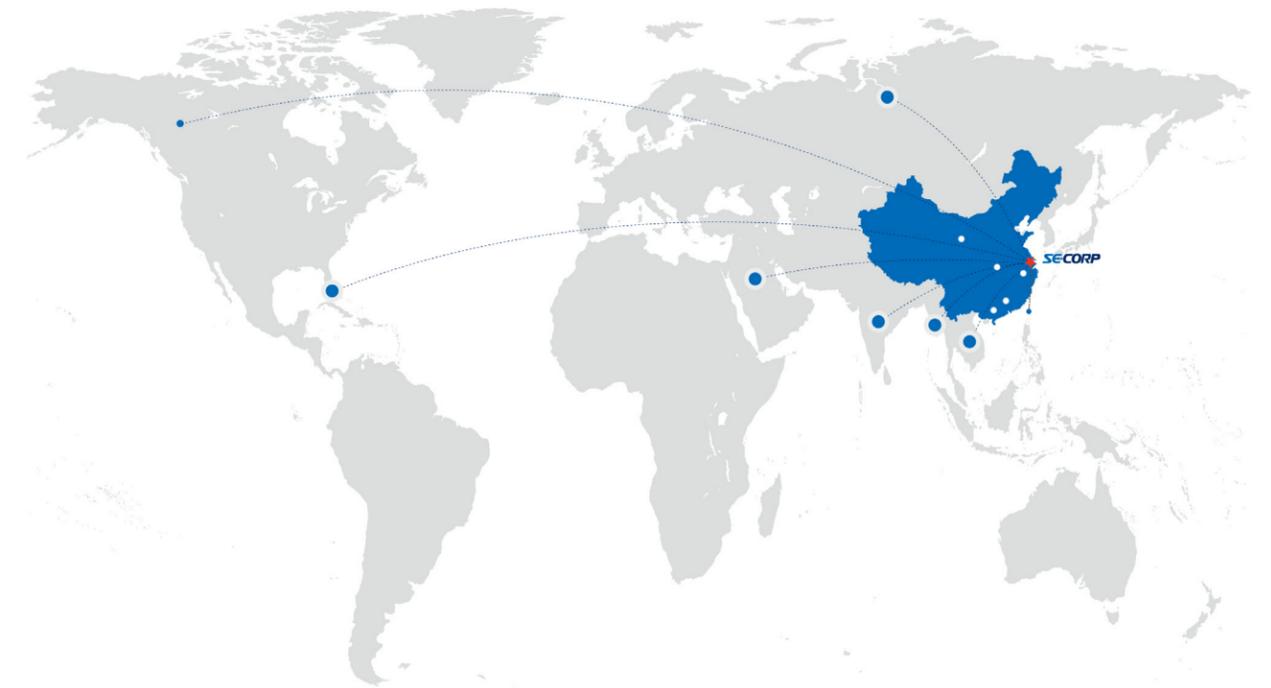


Bus system ➤



Bottom bolt installation sketch

A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
380	266	820	760	660
570	456			
760	646			
950	836	1010	950	850
1140	1026			
380	266			
570	456	1200	1140	1040
760	646			
950	836			
1140	1026			



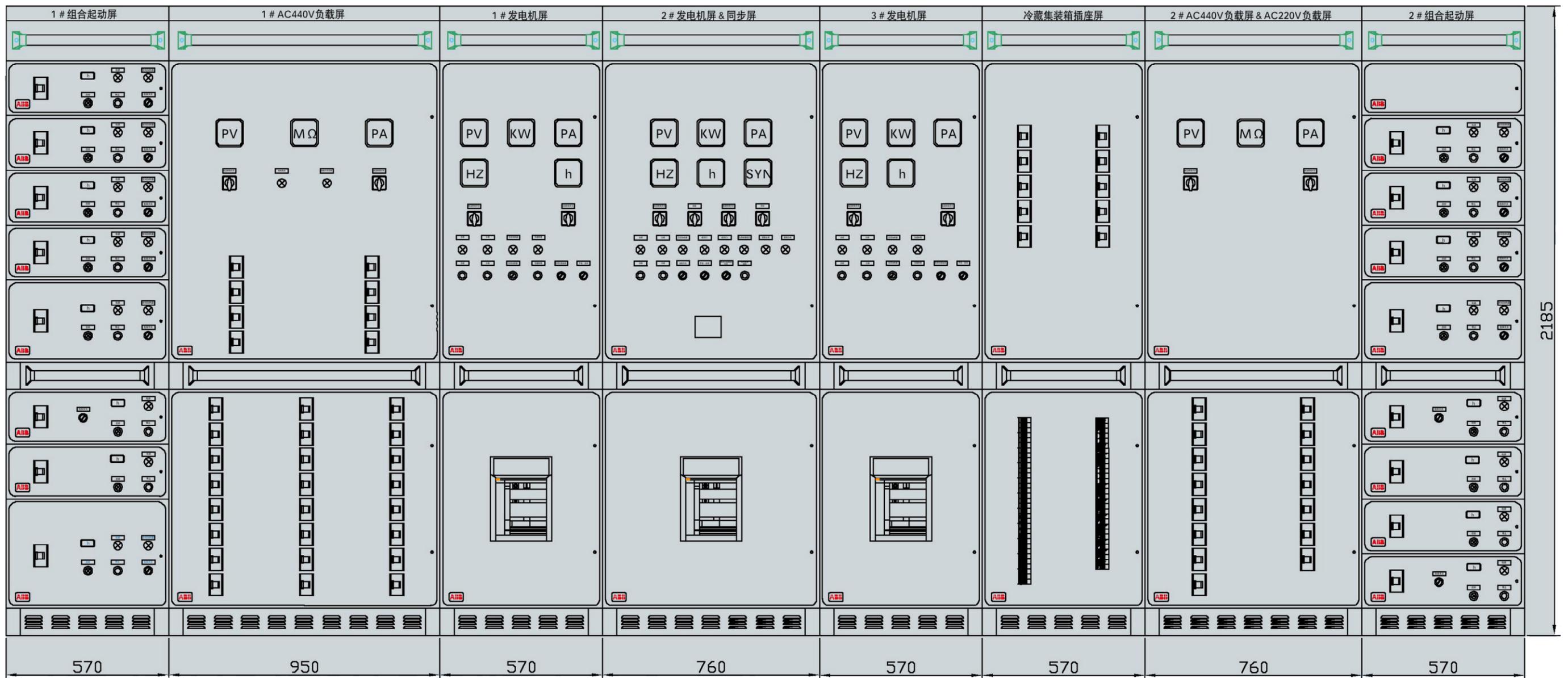
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- We provided service for project of Shanxi Diesel Engine Heavy Industry Co., Ltd. in Antigua and Barbuda
- We provided service for project of Consort in sigapole
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- We will continue to provide high-quality service for our users all over the world.

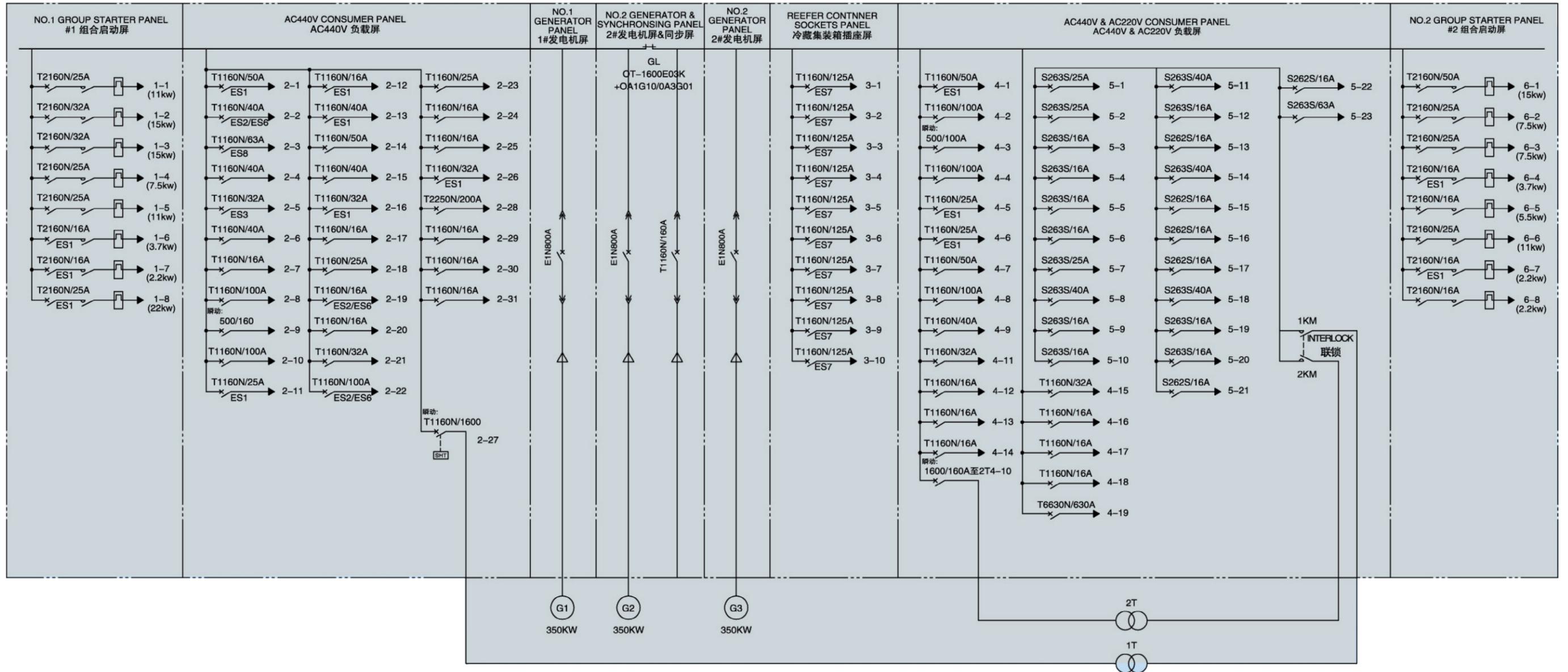
ABB Global Services Network Center for Marine Industry

- | | | |
|----------------------------|---|--------------------------|
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| Oslo, Norway | Tokyo, Japan | Busan, Korea |
| Rotterdam, the Netherlands | Marseille, France | Barcelona, Spain |
| Miami, United States | The united Arab emirates | Aberdeen, UK |
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Typical example: layout



Typical example: ISO drawing



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