



# Manufacturer of **Switchboard**

Company Profile & Product Guide



A Group Company of :



Empowering Sustainable  
HVACR & Electrical Solutions



**Sangchai Equipment Co., Ltd.** is a subsidiary of Sangchai Group, a leading importer and distributor of refrigeration and electrical equipment in Thailand. The company was founded in 2004 to provide integrated electrical engineering services to customers by a team of experienced engineers.

The company manufactures switchboard and electrical power distribution system under IEC 61439-1,-2,-3 standard. With over 10 years of experience, we have a standardized manufacturing process and use modern machinery, universal equipment as well busbars that are in accordance with DIN and IEC standards.

Sangchai has continuously improved quality of our products through designs and manufacturing process, as well as research & development, to fulfill customer needs and achieve the highest customer satisfaction.

## Mission

The company is committed to excellence, quality & service at reasonable prices and ready to deliver products on time to achieve highest customer satisfaction.

## 360 Degree Engineering Services



Registered Capital  
**40 Million THB**

Plant Area  
**3,000 Sq.m.**

Office Area  
**500 Sq.m.**

Number of Employees  
**80 Persons**

Capacity  
**50 Million THB  
per Month**



## Standard & Certificated



Certificate of United Registrar of Systems (Thailand) Ltd.



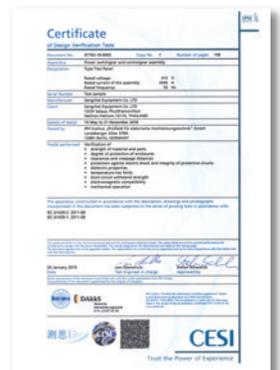
Certificate of Global Certification Service Ltd.



Certificate of Thai Industrial Standards Institute



Certificate of Design Verification Tests by ASTA



Certificate of Verification Tests by CESI

## Our Facilities



Manufacturing Process



Quality Assurance & Quality Control



Delivery & Transportation



After-Sales Service

# Manufacturing Process

The production process is divided into 4 main steps.

## Steel



We use CNC\* to cut, drill & bend steel for precision machining.

\*CNC = Computerized Numerical Control

## Paint



We have a Pre-treatment system with standard chemical control prior to spraying and use Robotic & Manual types of Electrostatic Powder Gun.

## Cabinet Assembly



The cabinet structure is a separate system for easy and fast assembly. It also benefits future additions and can be separated for convenience of transportation & installation in limited areas.

## Electrical



We have experienced technicians & tools for assembling electrical circuits to achieve high accuracy and precision according to standards such as bending, cutting & drilling machine for busbars as well as laser machine, torque wrench and etc.

# Manufacturing Products

- Fully Type-Tested Switchboards
- Customize Modular Switchboards
- Main Distribution Board (MDB)
- Distribution Board (DB)
- Motor Control Center (MCC)
- Motor Control Center Panel (MCCP)
- Control Board for Various Applications
- Control Panel for Chilled Room
- Consumer Unit



Approved Partner

Low Voltage Products



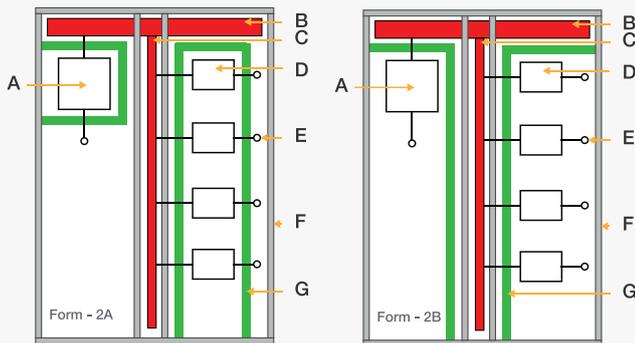
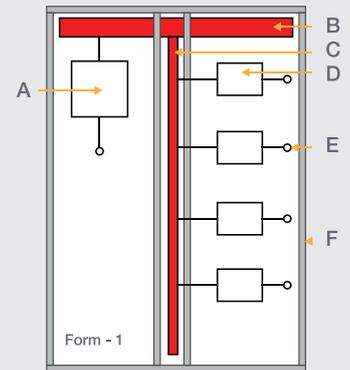
# Technical Information

## Low Voltage Switchboard

- A** Incoming unit
- B** Main busbar
- C** Distribution busbar
- D** Outgoing unit
- E** Terminals for external conductors
- F** Enclosures
- G** Partitioning at least IP2X

### Form - 1

No internal separation.



**Form - 2A**

**Form - 2B**

### Form - 2A / 2B

Separation of busbars from all functional units

**2A** Terminals for external conductors **not separated** from busbars

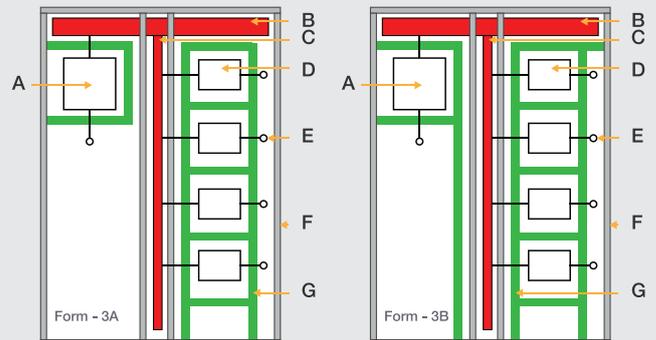
**2B** Terminals for external conductors separated from busbars

### Form - 3A / 3B

1. Separation of busbars from all functional units
2. Separation of all functional units from one another
3. Separation of terminals for external conductors & the external conductors from the functional units, but not from the terminals of other functional units

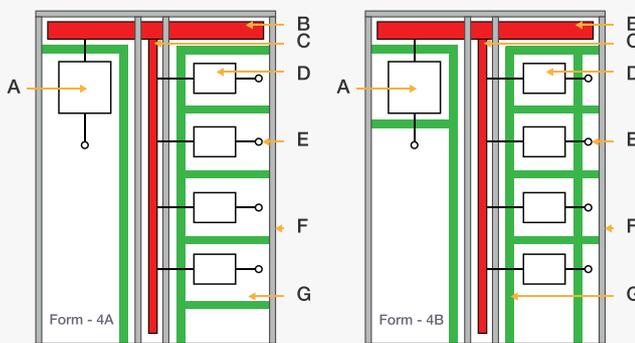
**3A** Terminals for external conductors **not separated** from busbars

**3B** Terminals for external conductors are external conductors separated from busbars



**Form - 3A**

**Form - 3B**



**Form - 4A**

**Form - 4B**

### Form - 4A / 4B

1. Separation of busbars from all functional units
2. Separation of all functional units from one another
3. Separation of terminals for external conductors associated with a functional unit from the terminals of any other functional unit and the busbars
4. Separation of the external conductors from the busbars
5. Separation of the external conductors associated with a functional unit from other functional units and their terminals
6. External conductors need not be separated from each other

**4A** Terminals for external conductors in the same compartment as the associated functional unit

**4B** Terminals for external conductors **not in the same compartment** as the associated functional unit, but in individual, separate, enclosed protected spaces or compartments

# Sourcing & Supply

Electrical : Transformer, Circuit Breaker, Switchgear, Busway, UPS, Relay Motoring and Others

## SIEMENS



Modular DIN Rail (RCBO, MCB),  
Circuit Breaker (MCCB, ACB)  
Contactor, Relays, Starters

## CHNT



Medium Voltage Switchgear,  
Modular DIN Rail (RCBO, MCB),  
Circuit Breaker (MCCB, ACB)  
Contactor, Relays, Starters

## KEHUA TECH



Modular Data Center Solution,  
Critical Power Solution, UPS

## After Sales Services

- Preventive Maintenance (PM for Electrical Equipment)
- Thermo Scanning
- AC Withstand Test
- Training Service
- Commissioning Service
- Other Requested Service



For further information, please contact our service team at  
☎ 066-113-4159 , 063-525-3748



# Sangchai Equipment's PROJECT REFERENCE

## Commercial & Residential



## Industrial



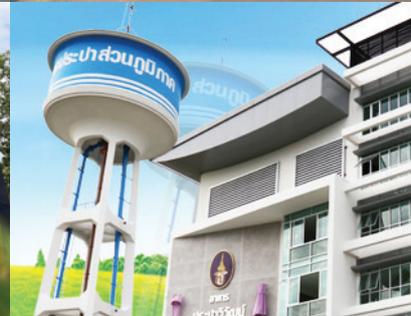
## Public Utilities



## Institutions



## Refrigeration





# Empowering Sustainable HVACR & Electrical Solutions

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Google Map

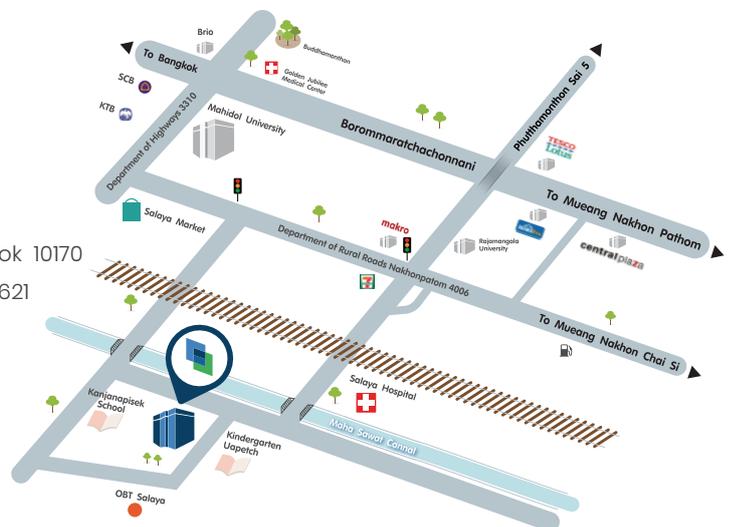


Factory  
Sangchai Equipment

Website



Sangchai Group  
Power Distribution



@sangchaigroup



sangchaigroup