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## **Mitsubishi Electric Launches New Mitsubishi Low Voltage Motor Control Center Type-D**

*Single-front design substantially increases cubicle capacity*

**TOKYO, September 8, 2016** – [Mitsubishi Electric Corporation](http://www.mitsubishielectric.com) (TOKYO: 6503) announced today the launch of its latest Low Voltage Motor Control Center, the Type-D version, which accommodates a high number of functional units and is specifically designed for deployment in many global markets, starting September 8. The company is targeting sales of two billion Japanese yen, or about US\$ 20 million, in the first full year.

The Mitsubishi Low Voltage Motor Control Center Type-D's single-front design makes it particularly suitable for environments where double-front construction is not appropriate. These include increasingly popular container-type substation installations for motor-control and supervisory applications in industrial plants, power plants and water-treatment plants, particularly in South East Asia, the Middle East and South America.



Mitsubishi Low Voltage Motor Control Center Type-D



Functional unit for small power feeder



Functional unit for small motor starter feeder

## **Advantages of New Mitsubishi Low Voltage Motor Control Center Type-D**

### **1) *Increased cubicle capacity leads to fewer cubicles***

- Despite its single front, the new unit's compact 1000mm x 600mm x 2200mm design allows up to 40 units to be housed in a single cubicle (4 units x 10 levels per side in the smallest power feeder units versus 1 unit x 9 levels per side in the current design)

### **2) *Simplified operation and maintenance***

- Components can be rearranged from the front side during cubicle installation, operation or maintenance
- In the case of withdrawable units, fully automatic connection and disconnection of a functioning unit's main and control circuits is possible

### **3) *Universal design helps eliminate human error***

- Controls are highly visible thanks to conspicuous text and high-contrast colors
- ON/OFF status is easily recognized due to the molded case circuit breaker's two-colored handle
- Embedded LED lighting on the cubicle sides enables operational status to be easily recognized

## **Background**

Motor control centers integrate and house all components necessary to control and manage multiple motors in a single electrical distribution network. These components primarily comprise devices that control a motor's START/STOP function, switches and circuit breakers, protection relays and display devices. Conventional motor control centers generally use a double-front design for operation from the front and the rear. The design lowers cubicle capacity and sometimes impedes operation and maintenance, making it less attractive for rear-fixed configurations of container-type substations.

Mitsubishi Electric's new single-front, high-capacity cubicle-applicable Mitsubishi Low Voltage Motor Control Center Type-D simplifies operation and maintenance. Further, driven by customer demands to shorten construction times and lower costs while still maintaining the quality of electrical facilities, Mitsubishi Electric's new design uses container-type substations. The electrical panels and associated equipment are preinstalled inside an enclosure at the factory, enabling the assembled electrical room to be shipped to the customer site where it is simply set in place, substantially reducing on-site construction work. The popularity of such deployments is increasing, particularly in South-East Asia, the Middle East and South America.

**Technical Specifications**

Product Name	Mitsubishi Low Voltage Motor Control Center Type-D
Applied Standard	IEC61439-1/2
Rated Insulation Voltage	1000V
Rated Voltage	100~690V
Rated Frequency	50/60Hz
Rated Interrupting Capacity	50/65/75kA
Max. Short-Circuit Withstand Current	85kA 1sec.
Max. Rated Current	4000A
Rated Frequency Withstand Voltage	2200V 5sec.
Max. applicable capacity (motor starter)	300kW
Size	1000mm x 600mm x 2200mm

1. Container-type Substation Installation

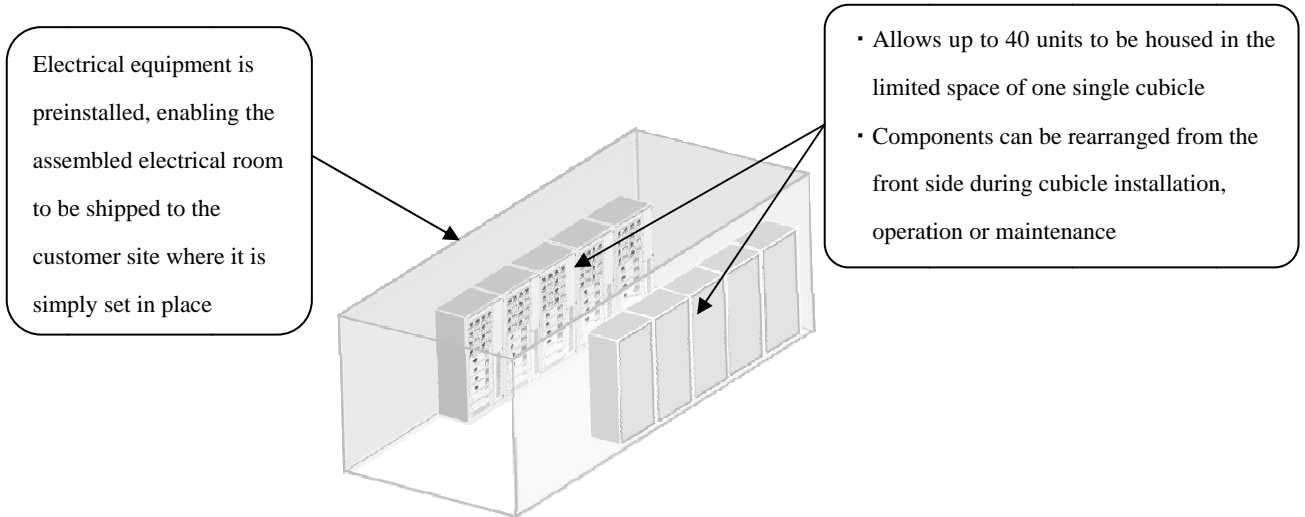
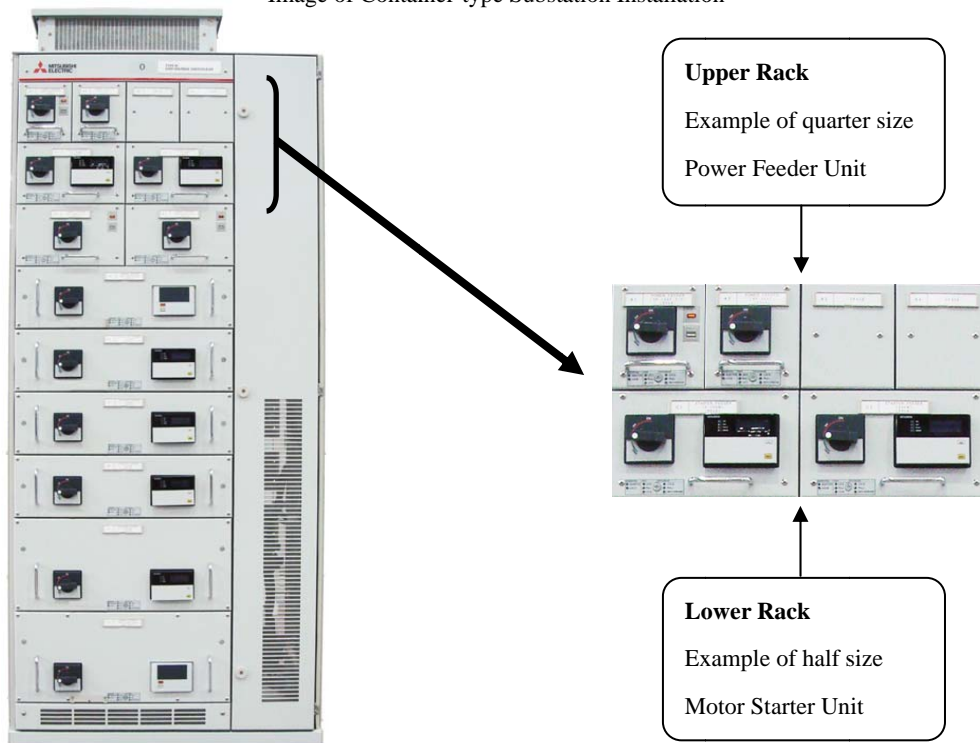
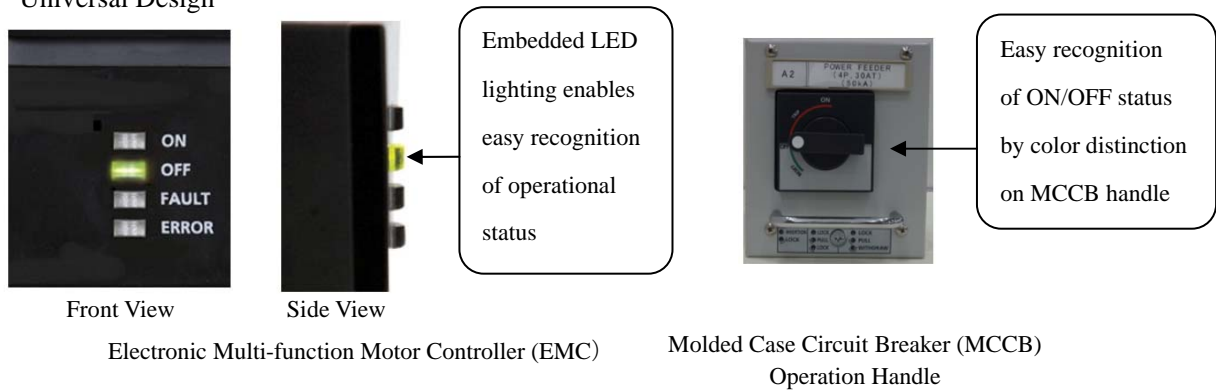


Image of Container-type Substation Installation



Example of Mitsubishi Control Center Unit arrangement

## 2. Universal Design



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### **About Mitsubishi Electric Corporation**

With over 90 years of experience in providing reliable, high-quality products, Mitsubishi Electric Corporation (TOKYO: 6503) is a recognized world leader in the manufacture, marketing and sales of electrical and electronic equipment used in information processing and communications, space development and satellite communications, consumer electronics, industrial technology, energy, transportation and building equipment. Embracing the spirit of its corporate statement, Changes for the Better, and its environmental statement, Eco Changes, Mitsubishi Electric endeavors to be a global, leading green company, enriching society with technology. The company recorded consolidated group sales of 4,394.3 billion yen (US\$ 38.8 billion\*) in the fiscal year ended March 31, 2016. For more information visit:

[www.MitsubishiElectric.com](http://www.MitsubishiElectric.com)

\*At an exchange rate of 113 yen to the US dollar, the rate given by the Tokyo Foreign Exchange Market on March 31, 2016