

# Switchgears & SF6 Switches

ISO  
9001  
CERTIFIED

ISO  
14001  
CERTIFIED

OHSAS  
18001  
CERTIFIED

CESI  
CERTIFIED

KEMA  
CERTIFIED

SIX SIGMA



華城電機股份有限公司  
FORTUNE ELECTRIC CO., LTD.

**F**rom metal working, paint coating, enclosure assembly, wiring and testing, Fortune Switchgear integrated all processes in factory to supply the power industry with high quality products.

## **Metal Clad Switchgear (UP to 36kV IEC, 38kV ANSI)**

High-quality components, Modular design with functional cubicles



**F**actory built **W**ired **A**ssembled **T**ested



## Low Voltage Switchgear (UP to 600V)

A wide variety of choice to meet requirements, highly skilled professional engineering team ensures the high quality.



## LV/MV Motor Control Center (UP to 7.2kV)

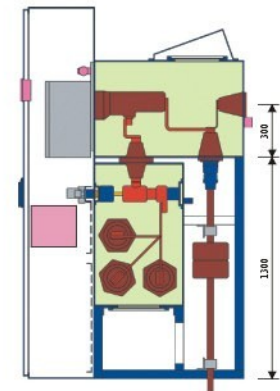
A wide range of standard and custom-designed  
Direct on line start, Soft starter, Variable speed drive, Variable frequency drive, Thyristor drive,  
To group motor control, your requirements, our service



# SF6 INSULATED SWITCHGEAR



HV parts are sealed and filled with SF6 gas, independency from environment, compact design, substation space saving.



■ SF6 Insulated gas



Plug in Bus Bar System

The vacuum and SF6 filling works are finished in factory to minimize the effect by site environment. Faster and easier site assembling reduces installation time.

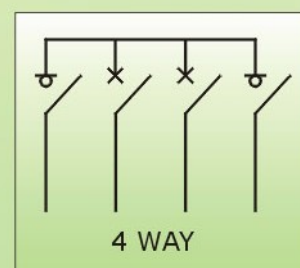
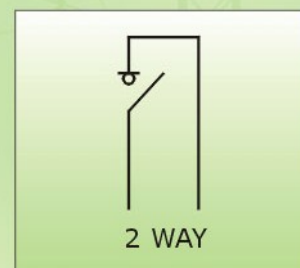
## SPECIFICATION

Rated voltage:	kV	~36
Rated current:	A	~2000
Rated Frequency:	Hz	50/60
Rated power frequency withstand voltage:	kV/1min	~70
Rated impulse withstand voltage:	kV	~170
Rated short-time withstand current:	kA/3sec	31.5
Rated short-circuit breaking current of CB:	kA	31.5
Rated peak withstand current:	kA	80
Rated short-circuit making current of CB:	kA	80
Rated operating sequence:	O-0.3s-CO-3min-CO	
Total break time:	ms	ca. 60
Make time:	ms	ca. 80
Rated filling pressure (gauge):	bar	0.3
Minimum operation pressure (gauge):	bar	0.2
Dimension	Width:	mm 600/800
	Height:	mm 2350
	Depth:	mm 1680
Applicable Standard:	IEC 62271-200	



# SF6 INSULATED SWITCH

High Voltage SF6 Padmount Switches, switching and protection solutions for underground electrical distribution systems



## SPECIFICATION

Number of Circuit		2 WAY	4 WAY	
Rated Voltage:	kV	24		
Rated Current:	A	600 / 200		
Rated Frequency:	Hz	50 /60		
Rated Power Frequency withstand Voltage:	kV/1min	50		
Rated Impulse withstand Voltage:	kV	125		
Rated Short-time withstand Current:	kA/3sec	12		
Rated making current, peak:	kA	31.5		
Rated trip time, CB:	cycles	5		
Operation mode :	Manual / Electrical			
Dimension	Width:	mm	1000	1800
	Height:	mm	1000	1000
	Depth:	mm	1200	1200
Applicable Standard:	IEC 62271-200 、 60265-1			

**Vacuum interrupter with wide variety of time-current characteristic relays provides fully fault protection.**

*Withstand of Dielectric Test*

*Internal Fault Arc Test 25kA/1sec.*

*Cable charging test*

*Short time withstand current test: 25kA/3sec.*



**High power laboratory tests prove  
our products quality.**

**KEMA**  
CERTIFIED



**Test Report** **CESI** **GPS-A1018376** p.1

client	FORTUNE ELECTRIC CO., LTD. - Taichung - TAIWAN		
equipment under test	A.C. metal clad air-insulated switchgear		
tests performed	Arcing due to internal fault tests		
normative documents	IEC 60258 (1988)		
receipt date of the sample	May 7, 2001		
test date	from	May 8, 2001	to May 9, 2001

the test results relate only to the sample tested  
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no. of pages	33	no. of pages annexed	7
issue date	June 8, 2001		
prepared	PAC/TEST - P. BECCARINI		
verified	PAC/TEST - S. GIORDANO		
approved	PAC/TEST - V. SCARDONE		

**CESI**  
Certification of Competence  
European Conformity  
EN ISO 9001

**Test Report** **CESI** **MP-A01029552** p.1

client	FORTUNE ELECTRIC CO., LTD. - Chung Li (Taiwan)		
equipment under test	Three-phase metal-clad switchgear, for medium voltage, composed by no.2 panels, designed PRA2-24kV		
tests performed	Short time and peak withstand current tests of the main circuit		
normative documents	Client's requests based on IEC 60258 (1980-12)		
receipt date of the sample	November 30, 2000		
test date	from	December 1, 2000	to December 1, 2000

the test results relate only to the sample tested  
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issue date	December 1, 2000		
prepared	PAC/TEST - M. ASSALON		
verified	PAC/TEST - A. BIL		
approved	PAC/TEST - V. SCARDONE		

**CESI**  
Certification of Competence  
European Conformity  
EN ISO 9001

**CESI**  
CERTIFIED



## Full experience of site installation



**F**ast **S**afety **R**eliability **C**arefulness

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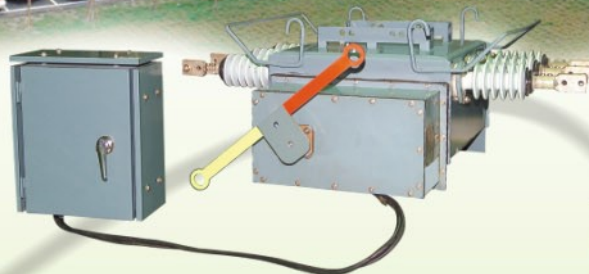
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Pole Top Line Switch



Molded Case Circuit Breaker



Switchgear



161kV GIS



2 Way SF6 Switch



24kV GIS



SF6 Insulated Switch

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