

# 中壓氣體絕緣開關設備

## 23KV SF<sub>6</sub> Gas Insulated Switchgear



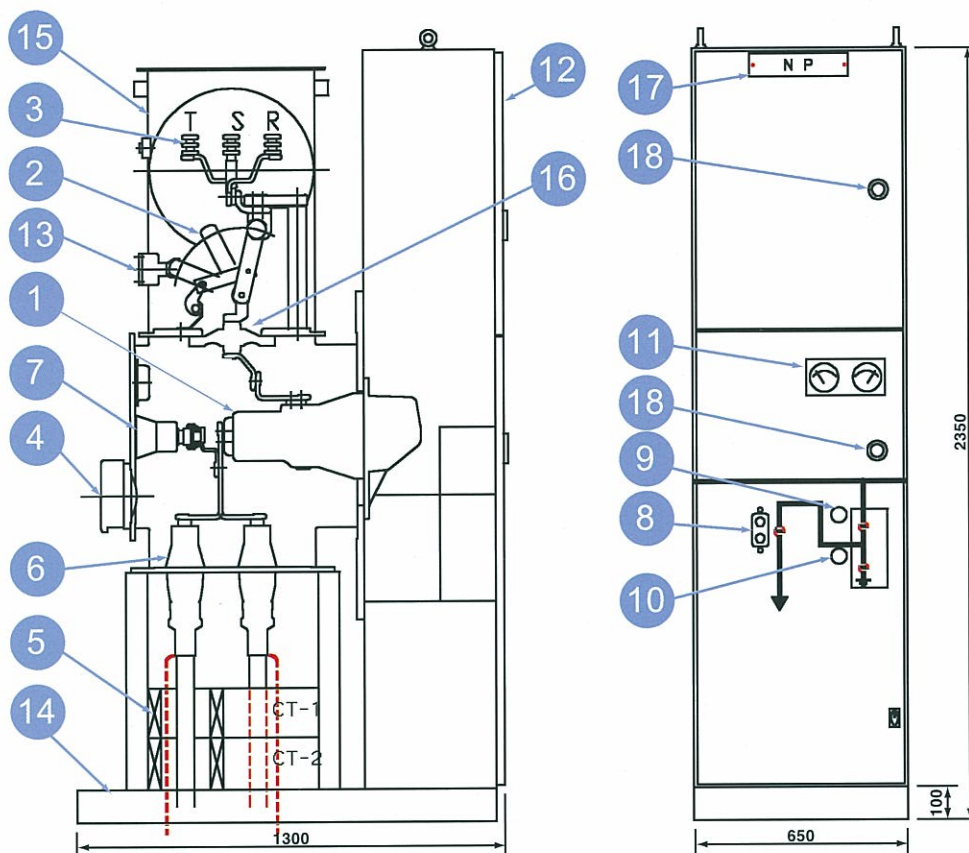
- ◆ ISO 9001品質管理系統驗證通過
- ◆ ISO 14001環境管理系統驗證通過
- ◆ OHSAS 18001安全衛生管理系統驗證通過
- ◆ 台電國產化評鑑合格



亞力電機股份有限公司  
ALLIS ELECTRIC CO., LTD.



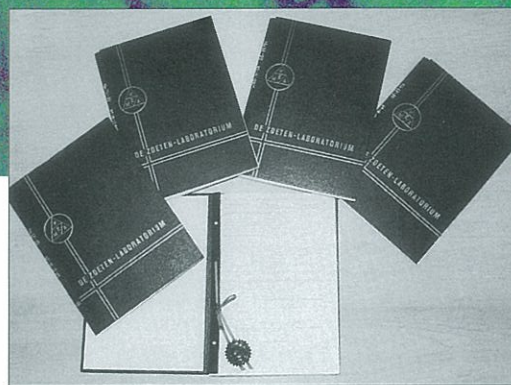
# 23KV SF<sub>6</sub> Gas Insulated Switchgear



項目 Item	品名 Description	規格 Specifications	
1	氣體斷路器	Gas circuit breaker	25.8KV 600A up to 25KA(3sec)
2	3位置隔離開關/接地開關	3Position switch(DS/ES)	25.8KV 600A
3	匯流排	Bus bar conductor	Copper 2000A
4	洩壓閥	Pressure relief disk	-----
5	模注型比流器	Current transformer	600/5A
6	電纜終端匣	Cable sealing end	500MCM
7	測試插座	Test socket	Size2
8	氣體斷路器操作機構	Operating mechanism for GCB	-----
9	隔離開關操作機構	Operating mechanism for D.S	-----
10	接地開關操作機構	Operating mechanism for E.S	-----
11	氣體壓力錶	Gas pressure gauge	-----
12	低壓控制盤	Control panel	-----
13	接地開關接地端子	Earthing terminal	-----
14	基礎底座	Common base	Steel (painted)
15	容器室	Enclosure (for every compartment)	Steel (painted) cylindrical
16	氣室間隔板	Spacer	-----
17	銘牌	Name plate	-----
18	門把手	Handler	-----



KEMA 試驗合格  
KEMA test reports

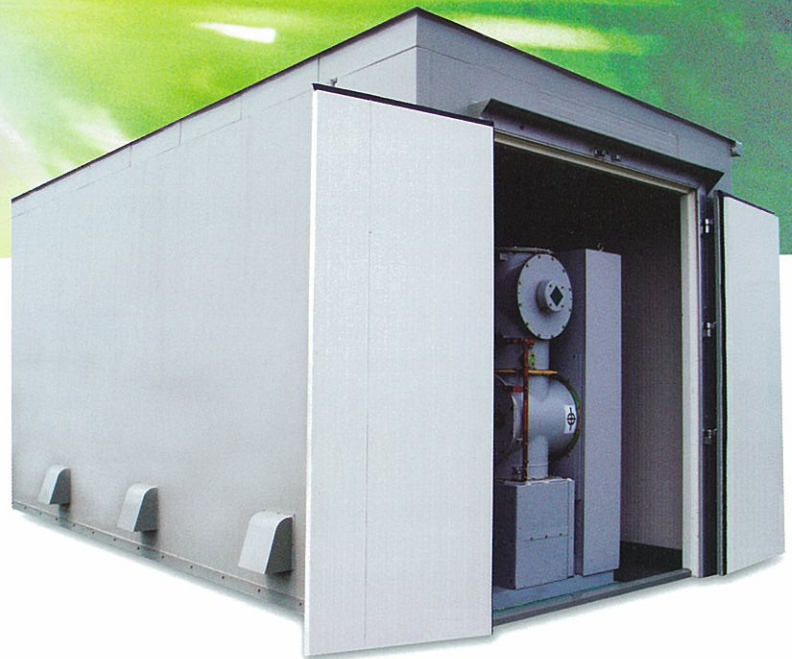


## 產品規格 Specifications

型號 Model	IMV23		
	GIS	氣體斷路器GCB	隔離開關/接地開關DS/ES
依據標準 Based on standards	IEC298 TPC GIS-3	IEC56 TPC GIS-3	IEC129 TPC GIS-3
額定/最高電壓 Rated/max. Voltage	23.9KV/25.8KV	23.9KV/25.8KV	23.9KV/25.8KV
額定電流 Rated current	600A/1200A/2000A	600A/1200A/2000A	600A/1200A/2000A
額定頻率 Rated frequency	50/60HZ	50/60HZ	50/60HZ
額定短時間電流 Rated short time current	up to 25KA (3 Sec.)	up to 25KA (3 Sec.)	up to 25KA (3 Sec.)
額定啟斷電流 Rated breaking current	-----	up to 25KA	-----
低頻耐電壓 Power frequency	50KV	50KV	50KV (pole to pole 55KV)
衝擊耐電壓 Impulse	125KV	125KV	125KV (pole to pole 137KV)
投入時間 Closing time	-----	Less than 70ms	-----
跳脫時間 Tripping time	-----	Less than 60ms	-----
額定啟斷時間 Rated breaking time	-----	5 cycles	-----
額定氣體壓力 Rated gas pressure	0.5kgf/cm <sup>2</sup> (at 20°C)	6.5kgf/cm <sup>2</sup> (at 20°C)	0.5kgf/cm <sup>2</sup> (at 20°C)
最低氣體壓力 Minimum gas pressure	0.2kgf/cm <sup>2</sup> (at 20°C)	5.5kgf/cm <sup>2</sup> (at 20°C)	0.2kgf/cm <sup>2</sup> (at 20°C)
標準操作責務 Standard operation duty	-----	0-0.3S-CO-15S-CO	-----
投入操作方式 Closing operation	-----	電動 / 手動 electric / manual	DS-electric / manual ES-manual 電動 / 手動 手動
跳脫操作方式 Tripping operation	-----	電動 / 手動 electric / manual	DS-electric / manual ES-manual 電動 / 手動 手動



屋外型 GIS  
Outdoor type GIS



## 比流器

### Current Transformer

依據標準 Based on standards	ANSI C57.13、TPC GIS-3	
一次側電流 Primary current	For Main Tie circuit 2000-1500-1200-800-500A	For Feeder circuit 600-500-400-300-200-100-50A
二次側電流 Secondary current 5A	5A	
頻率 Frequency	60HZ	
精確度 Accuracy	電錶用 for meter	C100(0.3 B-0.9)
	電驛用 for relay	C100(0.3 B-0.9)

## 比壓器

### Potential Transformer

依據標準 Based on standards	ANSI C57.13、TPC GIS-3	
一次側電壓 Primary Voltage	23900 $\sqrt{3}$ V	11950 $\sqrt{3}$ V
二次側電壓 Secondary Voltage	115V	
頻率 Frequency	60HZ	
精確度 Accuracy	0.6Y	
容量 Burden	75VA	
感應電壓 Induce Voltage	50KV 60Sec. 15HZ	
衝擊電壓 Impulse Voltage	125KV	



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## GIS特性與特點

### General Characteristics and Features

#### ■ 體積縮小化

##### Remarkable space reduction

容器內導體採用三相一體配置，並且充填SF<sub>6</sub>氣體作為絕緣介質，大幅減少以空氣為絕緣之空間。

The Compact common enclosure type GIS reduces the installation space approx. 40% of that of conventional segregated-phase type GIS.

#### ■ 高可靠度

##### High reliability

容器採用特殊機械設備一體成型，具有高強度之結構體，導體被密封在充滿SF<sub>6</sub>氣體之容器內與外在環境之鹽害、塵害隔絕，大幅提高運轉可靠度。

Since the live parts are hermetically sealed in metal enclosures which are filled with SF<sub>6</sub> gas, it is entirely excluded from such extraneous hazards as contamination by smoke, chemical fumes, dust, salt-laden spray or accumulation of snow. Therefore, high reliability can be maintained over a long term.

The compact common enclosure type GIS can reduce the number of parts extremely. The structural simplicity naturally results in high performance and reliability.

High reliability as a system is also attained with the promotion of standardization.

#### ■ 高安全性

##### High safety

所有帶電導體全部被密封於接地金屬容器內，無觸電之虞，作為絕緣用之SF<sub>6</sub>系為惰性無毒、無臭之氣體，無火災之虞，對人畜亦安全。

Since all the live parts are fully enclosed in an earthed metal enclosure, there is no danger of an electric shock. SF<sub>6</sub> gas, which is employed as an insulation and arc extinguishing medium, is inert, non-flammable. Non-toxic, and odourless. There is no danger of fire and it is safe for men and beasts.

#### ■ 低維護檢點費用

##### Laborsaving maintenance and inspection

主回路完全密封於SF<sub>6</sub>氣體內，保持高度絕緣狀態，即使長期運轉亦不含有氧化、劣化之虞，大幅降低維護檢點費用。

Since all the live parts are fully enclosed under the condition of no oxygen, there is no aging decay in it. Hence, it can afford a drastic reduction of labor for maintenance and inspection.

Unlike the conventional segregated-phase type GIS, there is almost no exposed part in the phase to phase connecting linkage or pipe. It is the apparatus which requires the minimum maintenance.

#### ■ 可縮短工期

##### Reduction of term for construction works

由於體積縮小約30%，在製造廠組裝完成後可直接運送至現場安裝大幅縮短工期。

The compact common enclosure type GIS can reduce the volume of the unit.

The apparatus for each circuit (bay) can be transported as it is fully constructed.

Therefore, the term of installation works for the apparatus on the spot can be extremely shortened.

In 10 days or so, the construction work can be completely finished in case of the receiving substation having 2-feeder circuits and 2-transformer circuits.

#### ■ 具高度保護功能

##### Highly protection

系統採用SEL型保護電驛，具有保護、監視、控制及故障定位等功能，保護裝置之輸入與輸出信號可依需求編輯程式，係為全方位及高靈敏度之多功能保護電驛。

Installed with SEL digital microprocessor relay which offer the functions of protection、monitor、control location, and follow the demand for the signals of input and output can be programmable, to formalize an all phases and highly sensitive multi-protection.

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