



SVIE Series

12/24kV 中置式配電盤

12/24kV Metal-Clad Switchgear



TECO 東元電機股份有限公司

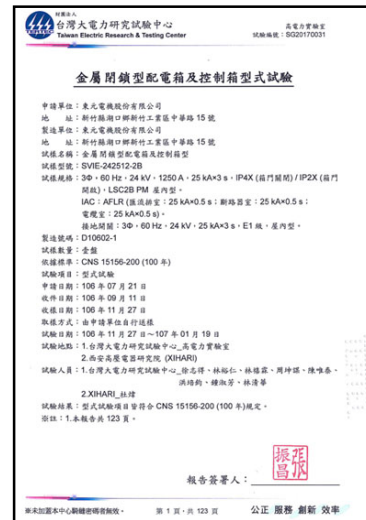
榮獲KEMA、台灣大電力研究試驗中心型式試驗認證

Won the KEMA and Taiwan Electric Research & Testing Center type testing certification



KEMA證書

KEMA certificate

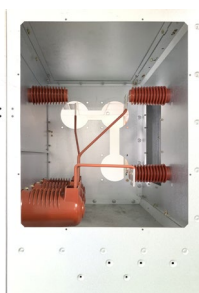


台灣大電力研究試驗中心證書

Taiwan Electric Research & Testing Center certificate

SVIE TYPE

- 符合 CNS 15156-200 及 IEC 62271-200 最新品質標準
Conforms to the newest quality standards of the CNS 15156-200 and IEC 62271-200.
- 耐受內部故障電弧設計，確保操作人員安全無虞
Design that can withstand internal arc to ensure operator safety.
- 盤體採用鍍鋁鋅鋼板，具優良防鏽防腐蝕性能
The enclosure utilizes galvanized steel sheet for superior rust prevention performance.
- 標準化設計、組裝、測試，確保品質穩定
Standardized design, assembly, and testing to ensure quality stability.
- 完善的機械互鎖設計，防止人員誤操作，提高對操作人員的安全防護
Complete mechanical interlock design that prevents wrong operation by operators and improves operator protection and safety.
- 四個獨立的分隔室，確保人員在操作時不會誤觸其他帶電分隔室
Four independent compartments to ensure that operators will not accidentally come in contact with other electrified segregated compartments during operations.
- 各高壓分隔室均有獨立之釋壓通道，於內部故障電弧時可以各自釋放壓力
Each of the high voltage compartments have their own independent pressure relief device that can independently release pressure when internal arc occurs.



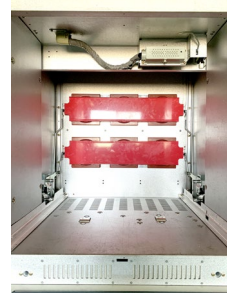
匯流排分隔室

Busbar compartments



斷路器分隔室

Circuit breaker compartments



斷路器分隔室金屬擋門

Circuit breaker compartment metal shutter



電纜分隔室

Cable compartments

技術參數 Technology data

項目 Item		單位 Unit	SVIE-122512-2B	SVIE-242512-2B
標準 Standards			CNS 15156-200 / IEC 62271-200	
額定電壓 Rated voltage		kV	12	24
額定電流 Rated normal current		A	630、1250、2500	630、1250
額定頻率 Rated frequency		Hz	50 / 60	
商頻耐電壓 Rated power frequency withstand voltage		kV	28	50
雷衝擊耐電壓 Rated lightning impulse withstand voltage		kV	75	125
輔助及控制迴路商頻耐電壓 Auxiliary circuit power frequency withstand voltage		V	2000	
額定短時間耐受電流 Rated short-time withstand current (3S)	主迴路 Main circuit	kA	25	
	接地迴路 Earthing circuit	kA	25	
	接地開關 Earthing switch	kA	25	
額定峰值耐受電流 Rated peak withstand current	主迴路 Main circuit	kA	65	
	接地迴路 Earthing circuit	kA	65	
	接地開關 Earthing switch	kA	65	
內燃弧 Internal arc			25kA x 0.5s	
可接近式型式 Accessibility type			AFLR	
運轉持續性喪失類型 Loss of service continuity category			LSC2B	
隔板類型 Partition class			PM	
防護等級 Degree of protection	盤門關閉 The door close		IP4x	
	盤門開啟 The door open		IP2x	
接地開關短路特性 Classification of electrical endurance for earthing switch			E1 / E2訂製品 E1 / custom make the E2	
接地開關機械壽命 Earthing switch mechanical endurance			1000 / 2000 訂製品 (操作循環次數) 1000/ custom make the 2000 (Number of operation cycles)	

五防連鎖，最高安全標準 Five preventive mechanical interlocks. The highest safety standard.

防止誤入帶電分隔室 / 防止誤操作斷路器 / 防止帶電時投入接地開關

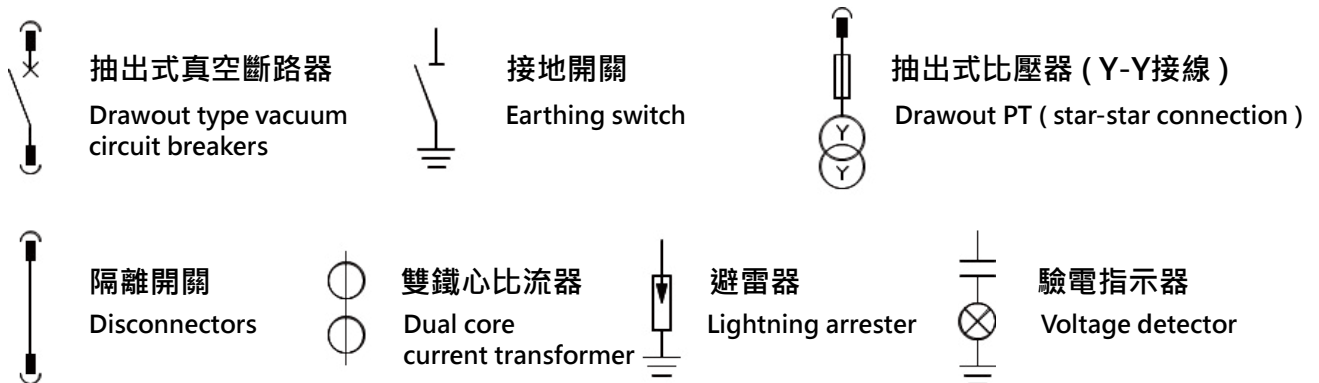
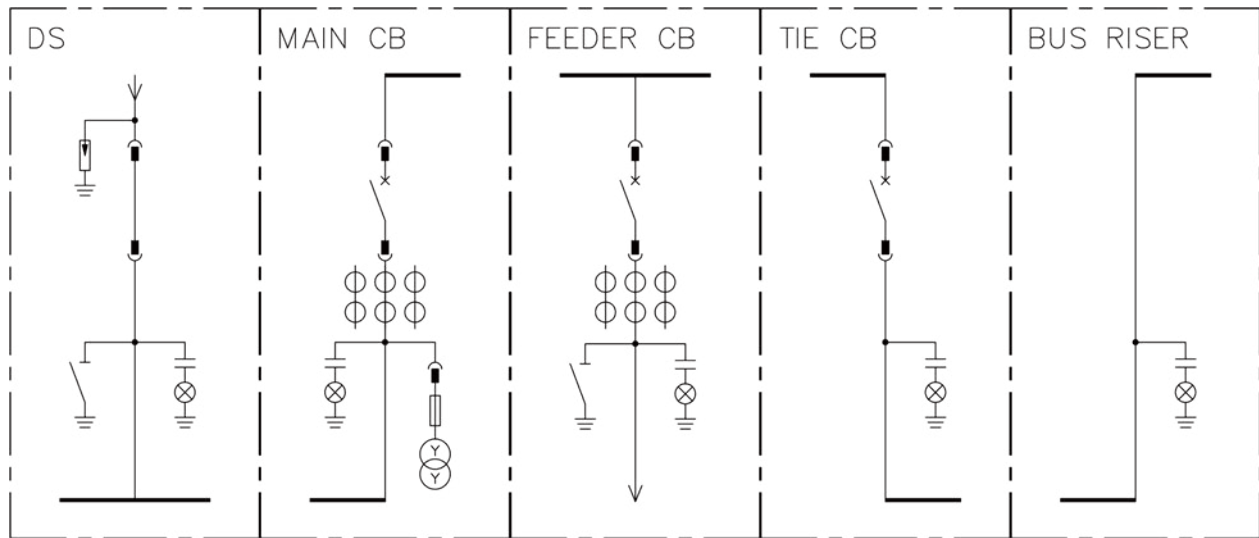
防止接地開關為閉合狀態時誤送電 / 防止斷路器為閉合狀態時誤抽出、嵌入

Prevent personnel from entering electrified compartments./Prevent operation errors of circuit breakers.

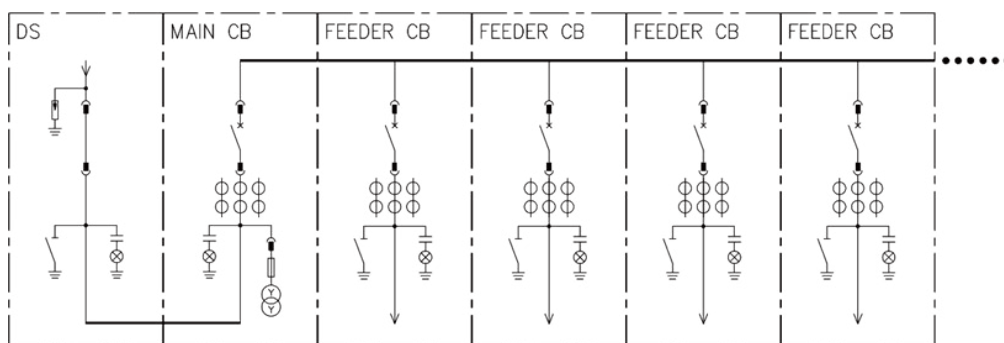
Prevent earthing switch be closed while electrified./Prevent circuit breakers be closed while earthing switch is closed.

Prevent racking trolley be racked in or out while the circuit breaker is closed.

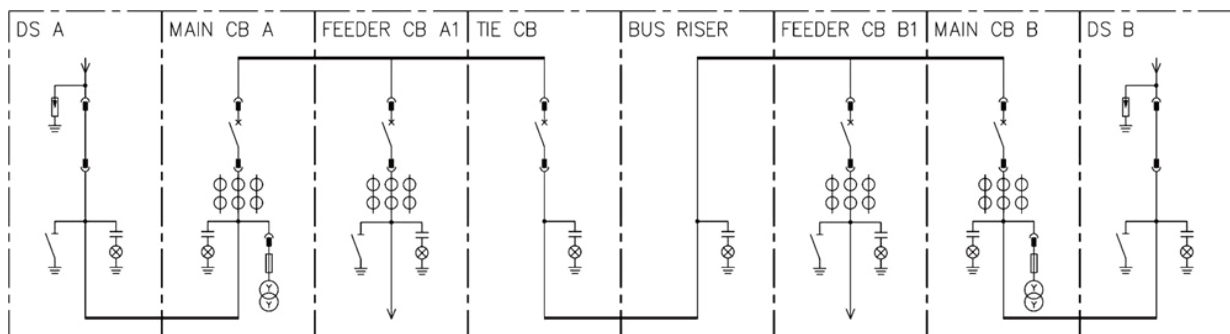
設計方案 Design solution



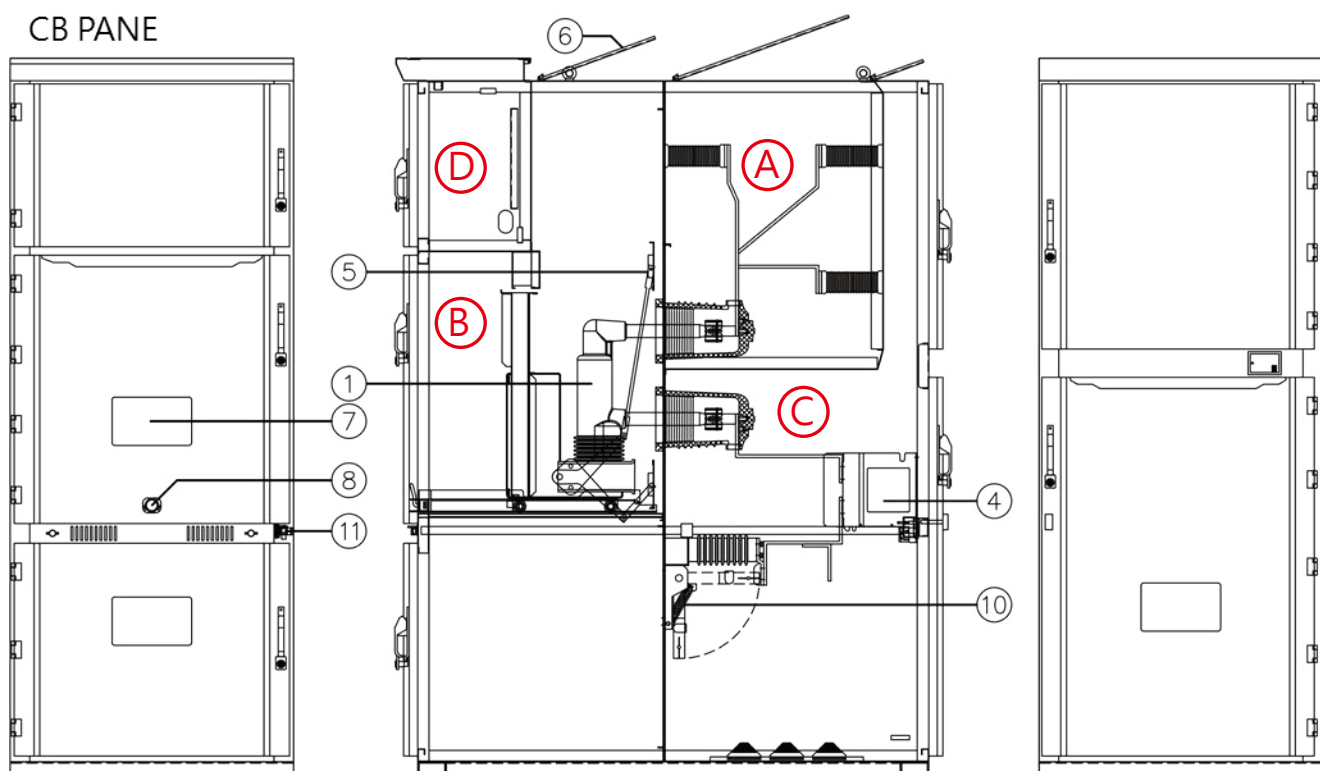
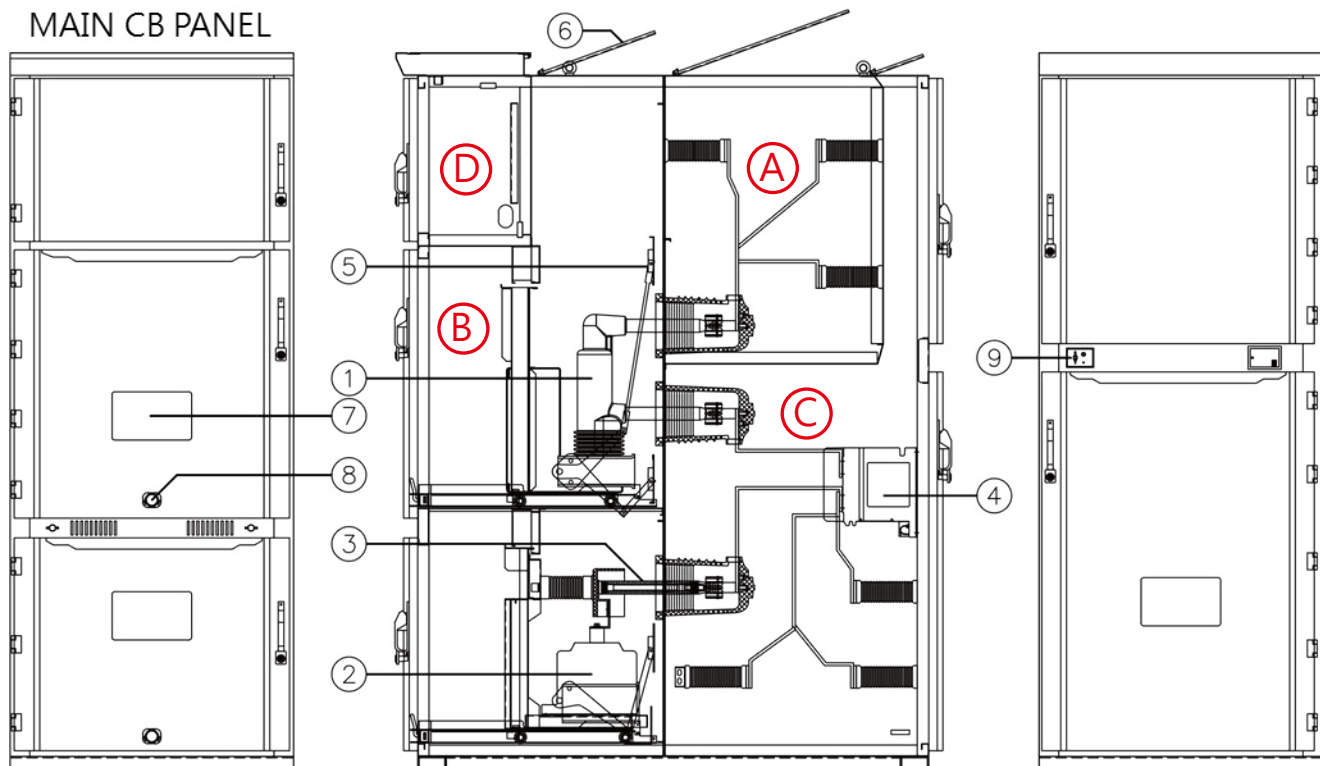
應用範例一 Application example 1



應用範例二 Application example 2



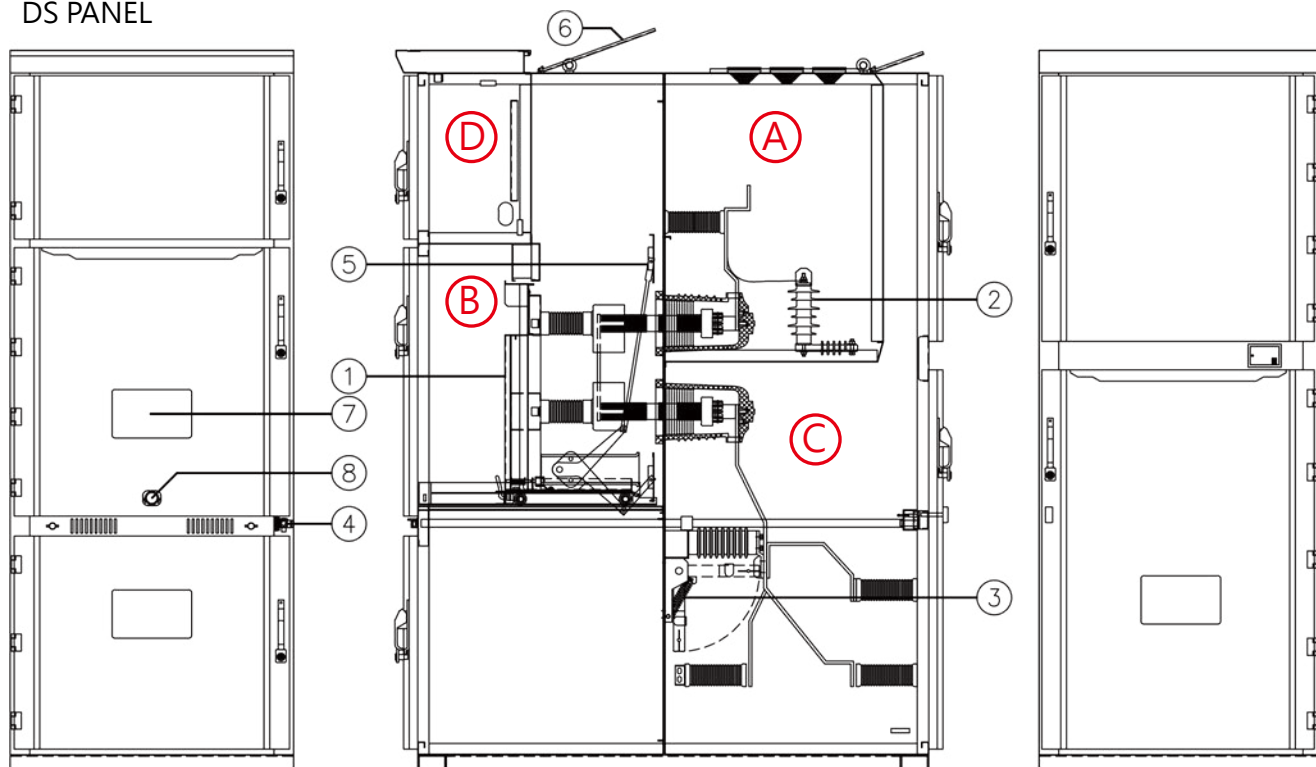
盤體佈置圖 Construction



- | | | | |
|--|--------------------------------------|--|---|
| (A) 匯流排分隔室
Busbar compartments | (1) 真空斷路器
Vacuum circuit breakers | (5) 金屬隔板
Metal shutter | (9) 電磁鎖
Magnetic lock |
| (B) 斷路器分隔室
Circuit breaker compartments | (2) 抽出式比壓器
Drawout type PT | (6) 壓力釋放板
Pressure relief device | (10) 接地開關
Earthing switch |
| (C) 電纜分隔室
Cable compartments | (3) 電力熔絲
Power fuse | (7) 防爆透視窗
Explosion proof window | (11) 接地開關盤外操作孔
External operating hole for the earthing switch |
| (D) 低壓分隔室
Low voltage compartments | (4) 比流器
Current transformer | (8) 斷路器盤外操作孔
External operating hole for racking in/out the circuit breaker | |

盤體佈置圖 Construction

DS PANEL



- | | | |
|--|--|--|
| (A) 匯流排分隔室
Busbar compartments | (1) 隔離開關
Disconnectors | (5) 金屬隔板
Metal shutter |
| (B) 斷路器分隔室
Circuit breaker compartments | (2) 避雷器
Lightning arrester | (6) 壓力釋放板
Pressure relief device |
| (C) 電纜分隔室
Cable compartments | (3) 接地開關
Earthing switch | (7) 防爆透視窗
Explosion proof window |
| (D) 低壓分隔室
Low voltage compartments | (4) 接地開關盤外操作孔
External operating hole for the earthing switch | (8) 隔離開關盤外操作孔
External operating hole for the earthing switch |

配件 Accessories

■ 抽出式PT抽出/嵌入操作把手

Crank handle for racking in/out the PT trolley.



■ 接地開關操作把手

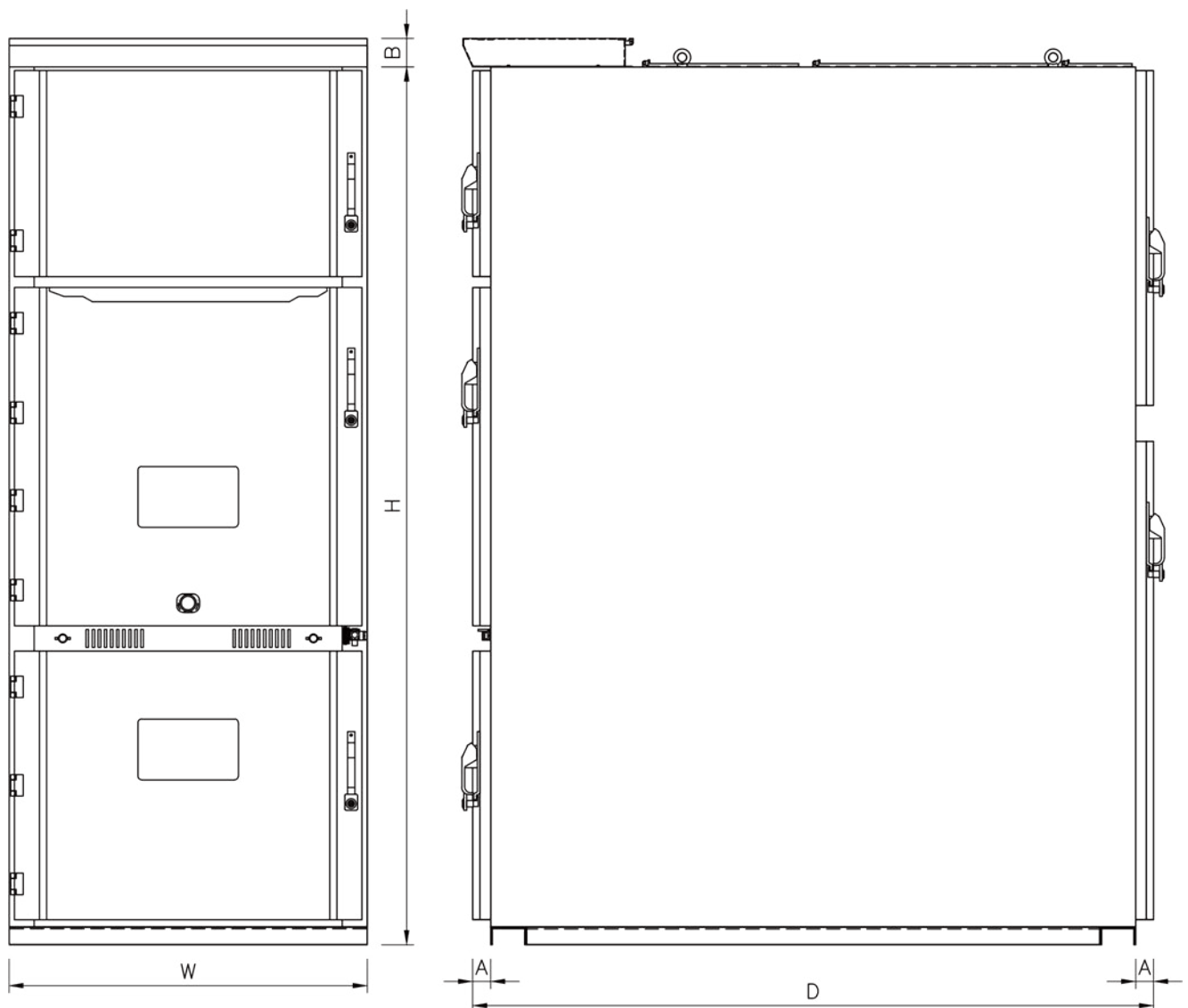
Earthing switch ON/OFF operating rod.



■ 抽出式斷路器抽出/嵌入操作把手

Crank handle for racking in/out the circuit breaker.





尺寸 Dimensions 單位Unit : mm

額定電壓 Rated Voltage	箱寬 Width (W)	箱高 High (H)	箱深 Depth (D)	箱門 Door (A)	眉頭 Label (B)
24kV	800 1000	2450	1900 2000 2100	50	80
12kV	800	2450	1600 1700 1800	50	80

表列外其它規格尺寸請直接和本公司洽詢。

For other dimension and specifications that are not with the above, please contact us.



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