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DC Switch-disconnector
UEW6DHG series



The relevant information on the products contained is for reference only.
For details, please consult our business staff.

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HONGFA GROUP



HONGFA ELECTRIC

INTRODUCTION

Hongfa, (Shanghai Stock Exchange: 600885), founded in 1984, has been adhering to the enterprise spirit of "persevere for progress, strive for excellence", and has built a complete industry system with complete categories and supporting facilities. At present, Hongfa has more than 30 subsidiaries and has established three districts of R & D and production bases. Its products cover various categories, such as medium and low voltage products, relays, high and low voltage switchgear, capacitors, precision parts and automation equipment.

Xiamen Hongfa Electrical Safety & Controls Co., Ltd. is a wholly-owned subsidiary of Hongfa, which specializes in R & D, design and manufacture medium and low voltage products. Its distribution apparatus, terminal apparatus, control apparatus and other products are widely used in real estate, electric power, new energy, industry, HVAC, transportation, information and other fields.

In the United States, Europe, Southeast Asia and other regions, Hongfa has established localized marketing and service networks with global market operation and technical service. Relying on professional and rigorous technical support, fast response and all-round service, safe and reliable product quality and high cost performance, Hongfa has reached business cooperation relationship with many global top 500 enterprises and other well-known enterprises, such as Enel, GE, Honeywell, Carrier, Trane, Johnson Controls, Danfoss, State Grid, China Southern Power Grid, CRRC, China Mobile, China Unicom, etc.



Donglin Industrial Park



Zhangzhou Industrial Park



Haicang Industrial Park



Zhongjiang Industrial Park



Zhoushan Industrial Park



Xi'an Factory



Sunban Industrial Park

In terms of technology R & D and manufacturing, taking the national enterprise technology center as the platform, Hongfa has set up postdoctoral research workstation, academician and expert workstation. Now it has developed into a leading scientific research and production base in the industry. From product development, mold manufacturing, parts manufacturing, automated product assembly and online testing, Hongfa has successfully built an integrated whole industry chain of medium and low voltage products. In terms of product testing, Hongfa testing center has passed the certification of VDE, UL, CNAS and other international organizations, and has complete testing and analysis equipment for low-voltage products, such as 50kA ultimate short circuit test, 8kA electrical life test, 80kA characteristic test, mechanical simulation and testing system, electro-magnetic simulation and testing system.

Hongfa always adheres to the policy of "focused on the market, winning through quality", and has a completed quality assurance system. Its products have passed UL / CUL, VDE, CQC, CCC and other international safety certification. In the process of quality management, Hongfa actively implements the advanced quality concept, constantly improves the quality management system, continuously promotes the product process quality control and testing, strengthens the supply chain management, and is committed to providing each customer with high-quality products and creating greater value.

Advanced technology and strict quality control have created Hongfa's brand strength. Hongfa is willing to work hand in hand with global customers to share the convenience and well-being brought by science and technology.

Production overview

Scope of Application

UEW6DHG-2500 switch-disconnector is suitable for the power system rated operating voltage within DC1500V and rated operating current up to 2500A for connecting and disconnecting of the main circuit for the purpose of isolation.

Product Features

- **Low temperature rise:** the ambient temperature is up to 55 °C without derating
- **Unipolar critical load current:** Unipolar critical load current up to 1500V
- **Short arc:** greatly improve safety and save space in the cabinet
- **Small size:** 70% size of similar products
- **Module:** Modular design, expandable to AC 3-pole and 4-pole switches
- **Eco-friendly:** The product is fully RoHS 2.0 compliant

Standards

CCC	CCC	GB/T 14048.1, GB/T 14048.3
CB	CB	IEC60947-3
TUV	TUV	EN60947.3

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UEW6DHG Series
DC SWITCH-DISCONNECTOR

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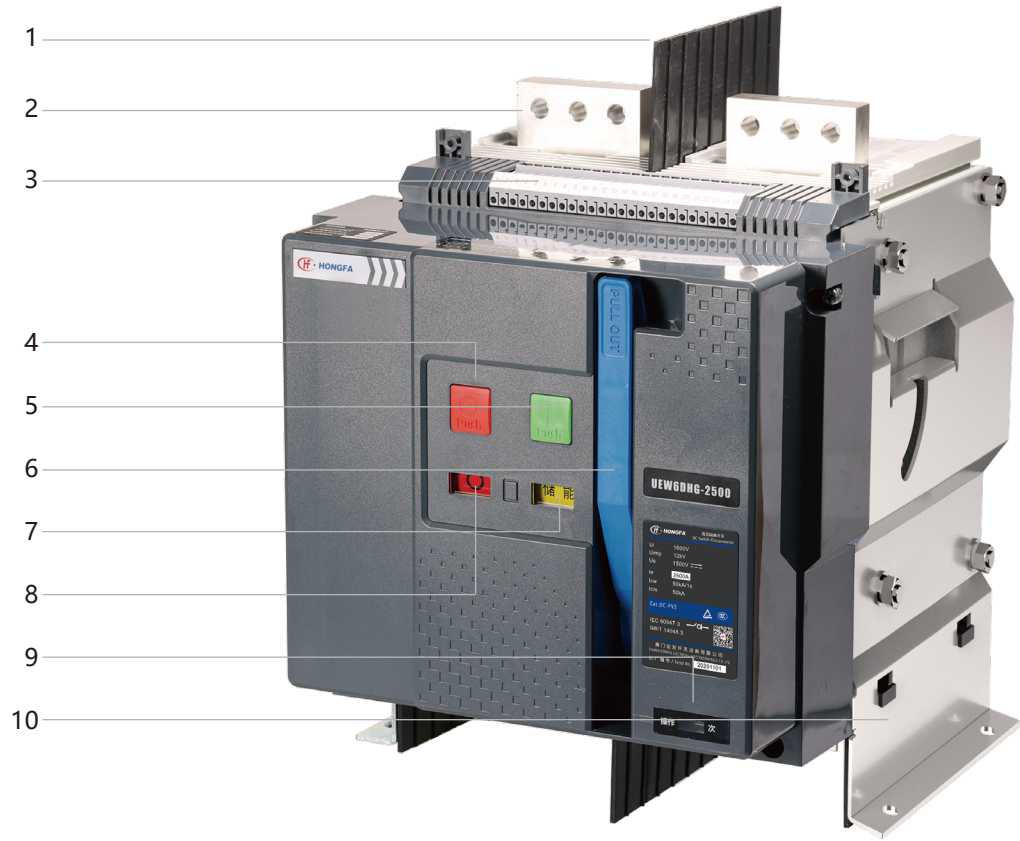
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Product Introduction

Product structure introduction

UEW6DHG-2500 Front



1. Interphase Barriers

2. Terminal Busbar

3. Secondary Terminals

4. Open Button (O)

5. Close Button (I)
6. Energy Storage Handle

7. Charged\Discharged Indicator

8. Close (I) \Open (O) Indicator

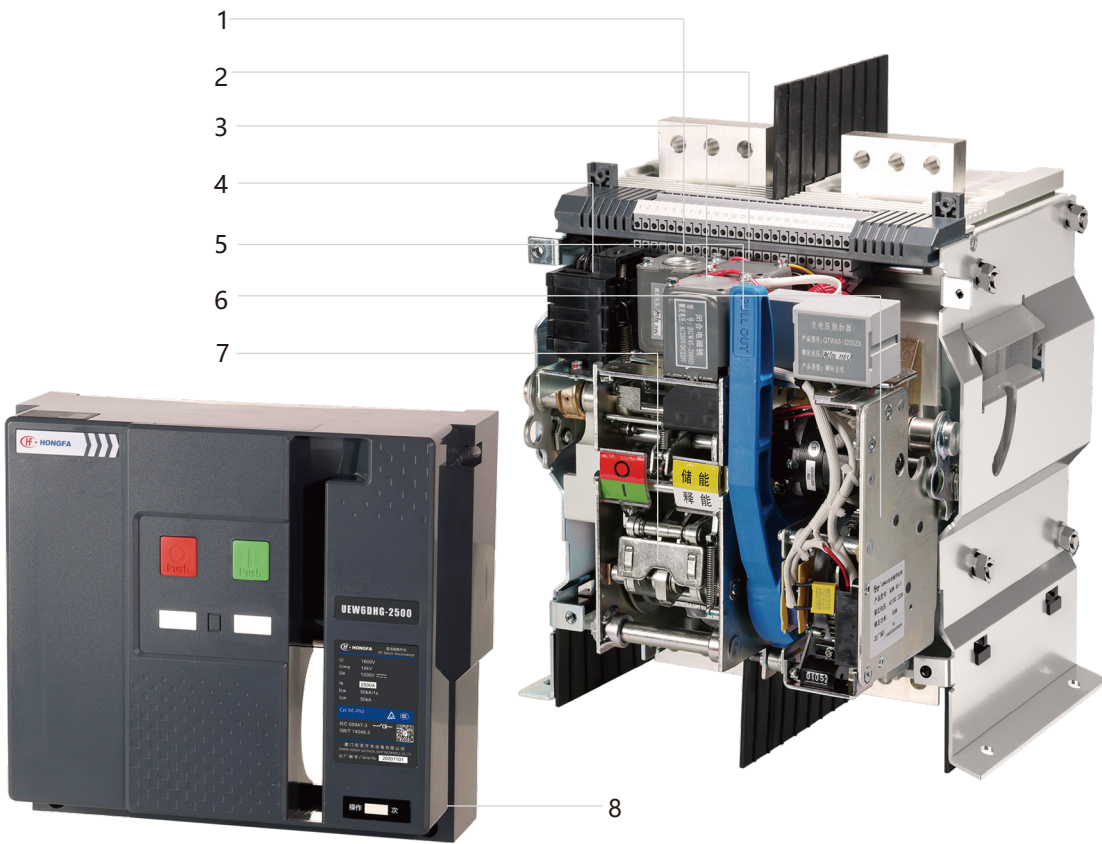
9. Counter Window

10.Side Panel

Product Introduction

Product structure introduction

UEW6DHG-2500 Internal



1. Under-voltage Release

2. Shunt Release

3. Closing Electromagnet

4. Auxiliary Contact
5. Energy Storage Handle

6. Energy Storage Motor

7. Operation Mechanism

8. Cover

Standard Operation and Installation Conditions

- The ambient air temperature is - 40 °C~+70 °C, and the average value within 24h shall not exceed+35 °C. If the temperature exceeds 55 °C, derating should be applied.
- If the altitude of the installation site exceeds 4000m, the break capacity shall be derating for use.
- Atmospheric conditions: - At an ambient air temperature of +40°C, the relative humidity of the atmosphere does not exceed 50%. Higher relative humidity is allowed at lower temperatures, for example, at +20°C, the relative humidity of the atmosphere can be 90%. Dehumidification or corresponding measures should be taken for condensation due to temperature changes.
- Pollution degree: III
- The installation category of main circuit of switch-disconnector is IV, and that of auxiliary circuits and control circuits is III.
- The vertical inclination of switch-disconnector shall not exceed 5 °.
- The switch-disconnector shall be installed in a place where there is no explosion hazard, conductive dust, corrosion of metal and damage of insulation board.
- Storage conditions: ambient air temperature - 40 °C~+80 °C.

Technical Parameters

Ordering Information

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Company code:HESC

Product code: ACB

Design code

Subseries code : DC high voltage

Subseries code : Derivative switch-disconnector

Frame rating: 2500

Rated current: 800:800A 1000:1000A 1250:1250A 1600:1600A 2000:2000A 2500:2500A

Number of poles: 2P

Installation method: fixed type

Control voltage (built-in shunt release, closing electromagnet, motor): 1: AC220 2: AC380 3: DC110 4: DC220

Aux contact: 1: 4 change-over 2: 6 change-over 4: 4NO4NC 6: 6NO6NC

Wiring method: 1: Horizontal

Busbar type: E: Standard bus bar

Ambient temperature: 1: Normal temperature (-5°C~70°C) 2: Low temperature (-40°C~70°C)

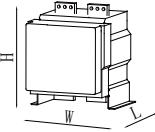
Under voltage release: 0: no under voltage 1: AC220 instantaneous 2: AC220 time delay 1s 3: AC220 time delay 3s 4: AC220 time delay 5s 5: AC380 instantaneous 6: AC380 time delay 1s 7: AC380 time delay 3s 8: AC380 time delay 5s A: AC220 voltage loss 1s B: AC220 voltage loss 3s C: AC220 voltage loss 5s D: AC380 voltage loss 1s E: AC380 voltage loss 3s F: AC380 voltage loss 5s

clapboard: 0: No Interphase Barriers 2: Interphase Barriers

Accessories (optional): B: Button locking F: 1 lock 1 key (opening lock) G: 2 lock 1 key H: 3 lock 2 key I : 5 lock 3 key J: counter K: terminal barrier

Note1: If Optional Configuration is not selected, replace the placeholder with 0.
Note2: Attachments can be multi-selected, and are described in alphabetical order when multi-selected, for example: BJK, FJ.
Note 3 :If you have special specifications, please consult us.

Main technical parameters

Model type		UEW6DHG-2500	
Max. Frame current I_{nm} (A)		2500	
Rated current I_n (A)		800、1000、1250、1600、2000、2500	
Rated voltage U_e (V)		DC1500	
Rated insulation withstand voltage U_i (V)		DC1600	
Rated impulse withstand voltage U_{imp} (kV)		12	
Poles		2	
Rated short current making capacity I_{cm} (kA)	DC1500V	50	
Rated short-time withstand current I_{cw} (kA/1s)	DC1500V	50	
Full breaking time (no additional delay)		< 120ms (63A or more)	
		< 300ms (63A or less)	
Closing time (ms)		maximum 70	
Utilization categories		DC-PV2	
Operation performance	Electrical endurance	DC1500V	500
	Mechanical endurance	Maintenance-free	10000
	Dimension W×H ×L (mm)		389×346×343

Ambient temperature derating factor

Allowable continuous current		+55℃	+60℃	+65℃	+70℃
Allowable continuous current	800 A	$1I_n$	$1I_n$	$1I_n$	$1I_n$
	1000A	$1I_n$	$1I_n$	$1I_n$	$1I_n$
	1250A	$1I_n$	$1I_n$	$1I_n$	$1I_n$
	1600A	$1I_n$	$1I_n$	$1I_n$	$1I_n$
	2000A	$1I_n$	$1I_n$	$1I_n$	$1I_n$
	2500A	$1I_n$	$0.99I_n$	$0.94I_n$	$0.89I_n$

Altitude derating factor

Altitude (m)	2000	3000	4000	5000
Maximum rated operating voltage	1500V	1500V	1500V	1500V
Operating current correction factor	1	1	1	0.97

Accessories Parameter

Shunt Release



Rated voltage (V)	AC220	AC380	DC110	DC220
Instantaneous current (A)	2.2	2.1	5.2	2.7
Operating voltage (V)	(0.7 ~ 1.1) U _e			
Breaking time (ms)	No more than 30ms			

Closing Electromagnet



Rated voltage (V)	AC220	AC380	DC110	DC220
Instantaneous current (A)	2.2	2.1	5.2	2.7
Operation voltage (V)	(0.85 ~ 1.1) U _e			
Breaking time (ms)	No more than 70ms			

Spring-Charging Motor



Rated voltage (V)	AC220	AC380	DC110	DC220
Power consumption (VA/W)	85			
Operating voltage (V)	(0.85 ~ 1.1) U _e			

Auxiliary Contact



Conventional Thermal Current (A)	I _{th} =16			
Rated Insulation Voltage (V)	U _i =400V			
Capacity	AC-12:400V 10A DC-12:250V 1A AC-15:400V 2A DC-13:250V 0.3A			

Open position lock








Lock the switch in open position, to ensure it can't be closed	
One lock one key: a switch with a lock and a key	

Interphase Barriers



This protection device can increase the insulation distance between adjacent phases

Accessories Parameter			
Under-voltage Release			
	Rated Voltage (V)	AC220	AC380
	Transient power consumption (VA)	150	180
	Stable power consumption (VA)	26	30
	Operating Voltage (V)	(0.35~0.7) U _e	
	Reliable Closing Voltage	(0.85~1.1) U _e	
	Reliable No Closing Voltage	≤0.35 U _e	
	Delay Time	Instantaneous、1s、3s、5s	
	Note: When the voltage is lower than 0.35 U _e , the delay undervoltage release will act instantaneously. If power off delay is required, the no voltage delay release shall be selected		
1.4U _e can be powered on for 3s without overvoltage protection. If the voltage exceeds 1.4U _e , it will be burnt if it is powered on for a long time			
Voltage Loss Release			
	Rated Voltage (V)	AC220	AC380
	Transient power consumption (VA)	150	180
	Stable power consumption (VA)	26	30
	Operation voltage (V)	(0~0.65) U _e	
	Reliable Closing Voltage	(0.85~1.1) U _e	
	Reliable No Closing Voltage	≤0.35 U _e	
	Delay time	1s、3s、5s	
1.4U _e can be powered on for 3s without overvoltage protection. If the voltage exceeds 1.4U _e , it will be burnt if it is powered on for a long time			
Mechanical counter			
	Record the opening and closing times of the switch-disconnector		
Button Lock			
	Lock The open/close button on the cover to prevent misoperation (Note: The padlock is provided by the user.)		
Terminal Barrier			
	This accessory can reduce the risk of direct contact with live parts of the product		

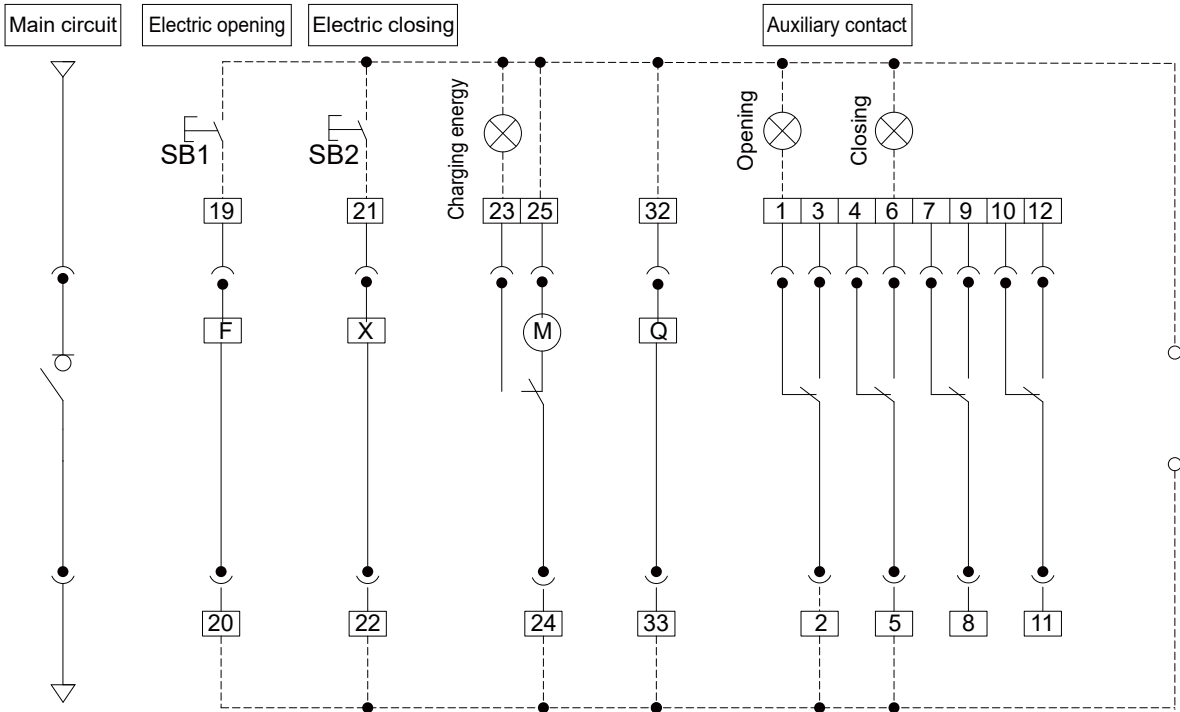
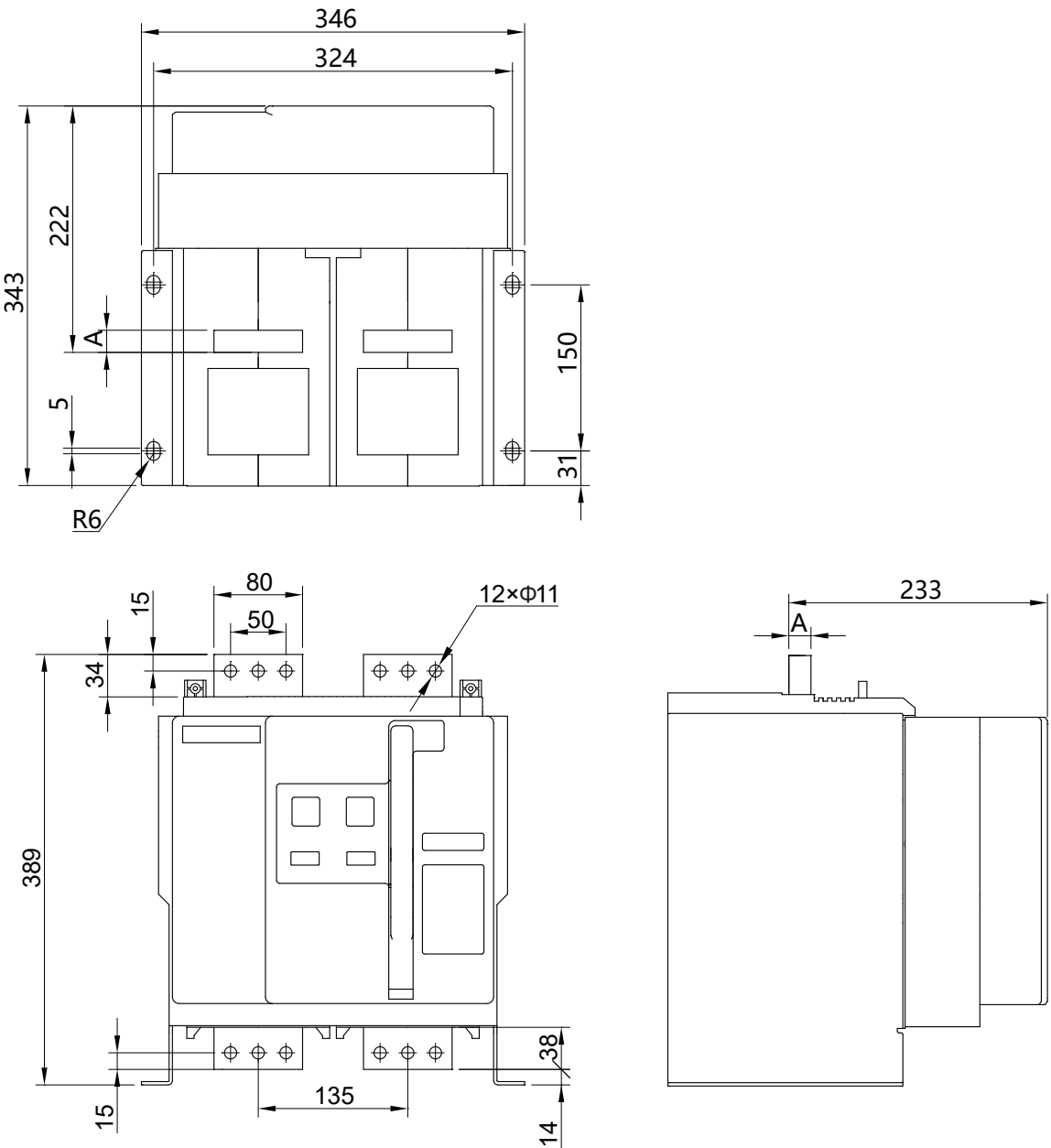
Outline and Mounting Dimension

Electrical Wiring Diagram

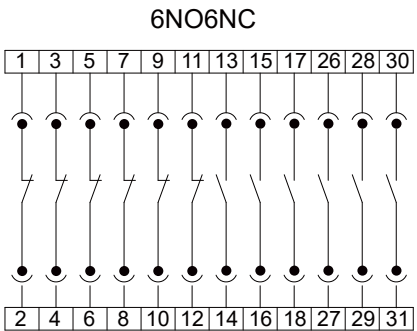
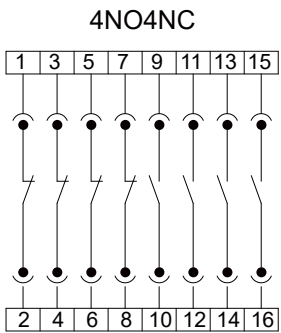
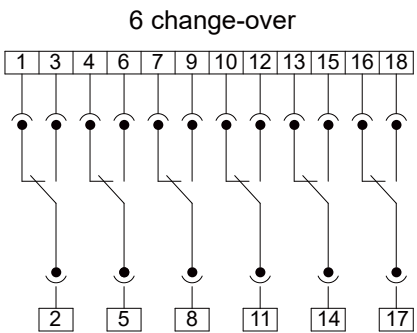
UEW6DHG-2500

UEW6DHG-2500

Unit: mm



Note: Above figure shows 4 change-over SB1 Shunt button (Self-prepared) SB2 Closing button (Self-prepared)
X Closing electromagnet F Shunt release
M Energy storage motor Q Under-voltage release



I_n	A(mm)
800-1250	10
1600-2000	15
2500	20

Requirement For The Copper Bar Connected To The Switch-Disconnecter

Frame rating	Rated current	Copper bar specification	
		Quantity	Size
UEW6DHG-2500	800	1	80×5
	1000	2	80×5
	1250	2	100×5
	1600	2	100×5
	2000	3	100×5
	2500	4	100×5

Note: 1: The overlapping interface between cabinet busbar and switch busbar shall not be less than 30mm.
2: The specifications in the table are for the circuit breaker which is installed in open condition meeting the heating conditions in IEC 60947-3, where the maximum ambient temperature is 40 °C.

Product Mounting Screws and Torque Requirements

- 1.Tightening torque of of screw for secondary circuit: 0.3N. m~0.4N. m.
- 2.The recommended specification of busbar mounting bolts and switch anchor bolts is M10 grade 8.8, and the tightening torque is 37.5N. m.

Ordering Form

Customer		Qty		Date	
Project type	<input type="checkbox"/> Industry <input type="checkbox"/> Construction <input type="checkbox"/> Power grid <input type="checkbox"/> PV <input type="checkbox"/> Wind power <input type="checkbox"/> Others				
Part number	<input type="checkbox"/> UEW6DHG-2500 2P		Rated voltage : DC1500V		
Rated current	<input type="checkbox"/> 800A <input type="checkbox"/> 1000A <input type="checkbox"/> 1250A <input type="checkbox"/> 1600A <input type="checkbox"/> 2000A <input type="checkbox"/> 2500A				
Ambient temperature	<input type="checkbox"/> Normal temperature (-5°C~70°C) <input type="checkbox"/> Low temperature (-40°C~70°C)				
Busbar type	<input type="checkbox"/> Normal bus bar				
Build-in accessory	Shunt Release	<input type="checkbox"/> AC220 <input type="checkbox"/> AC380 <input type="checkbox"/> DC110 <input type="checkbox"/> DC220			
	Closing Electromagnet	<input type="checkbox"/> AC220 <input type="checkbox"/> AC380 <input type="checkbox"/> DC110 <input type="checkbox"/> DC220			
	Spring Charging Motor	<input type="checkbox"/> AC220 <input type="checkbox"/> AC380 <input type="checkbox"/> DC110 <input type="checkbox"/> DC220			
	Auxiliary Contacts	<input type="checkbox"/> 4 change-over (standard) <input type="checkbox"/> 4NO4NC <input type="checkbox"/> 6 change-ove <input type="checkbox"/> 6NO6NC			
Optional Accessory	<input type="checkbox"/> Undervoltage / No Voltage Trip Device	<input type="checkbox"/> AC220 <input type="checkbox"/> AC380			
		<input type="checkbox"/> Undervoltage instantaneous release			
		<input type="checkbox"/> Undervoltage delay release (Delay Time should be selected) <input type="checkbox"/> 1S <input type="checkbox"/> 3S <input type="checkbox"/> 5S			
		<input type="checkbox"/> Voltage loss delay release (Delay Time should be selected) <input type="checkbox"/> 1S <input type="checkbox"/> 3S <input type="checkbox"/> 5S			
		Note: when the voltage is lower than 35% Ue, the undervoltage delay release will operate instantaneously; If the power-off delay is required, please select the voltage loss time-delay release.			
	<input type="checkbox"/> Interphase Barriers				
	<input type="checkbox"/> Button locks <input type="checkbox"/> Open lock (one lock one key) <input type="checkbox"/> 2 lock 1 key				
	<input type="checkbox"/> 3 lock 2 key <input type="checkbox"/> 5 lock 3 key <input type="checkbox"/> Counter <input type="checkbox"/> Terminal barrier				

MEMO



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www.hongfa.com

