

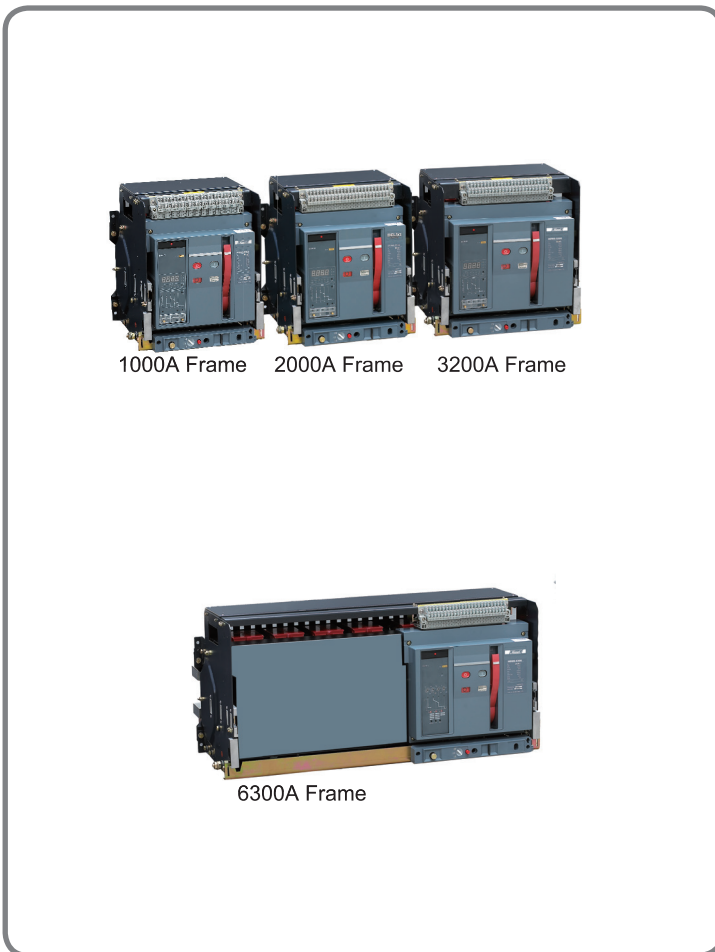
HDW6 Order Information

Selection of Breaker



Step 1

Select Current



1 Select frame

10:100A frame

l _{cu}	42
l _{cs}	30
l _{cw} (0.5s)	30

20:2000A frame

l _{cu}	80
l _{cs}	50
l _{cw} (1s)	50

32:3200A frame

l _{cu}	80
l _{cs}	80
l _{cw} (1s)	65

63:6300A frame

l _{cu}	120
l _{cs}	100
l _{cw} (1s)	85

2 Select current

02: 200A
04: 400A
06: 630A
08: 800A
10: 1000A

06: 630A
08: 800A
10: 1000A
12: 1250A
16: 1600A
20: 2000A

20: 2000A
25: 2500A
32: 3200A

40: 4000A
50: 5000A
63: 6300A (exclude 4P)

Doorframe and phase barrier are compliant

Production name	Frame	Rated current			
W6	10: 1000	02: 200A	12: 1250A	40: 4000A	
	20: 2000	04: 400A	16: 1600A	50: 5000A	
	32: 3200	06: 630A	20: 2000A	63: 6300A (Exclude 4P)	
	63: 6300	08: 800A	25: 2500A		
				32:3200A	
	↓	↓			
W6	+	20	16		

For example **W620163DHDD54L**


HDW6 Order Information

Selection of Breaker




Step 2 Select Form


FH: Fixed horizontal
4:4P




FH: Fixed horizontal
3:3P



DH: Drawout horizontal
3:3P



DH: Drawout horizontal
4:4P




1 Select installation way


FH: Fixed horizontal 3:3P
(1000AF-3200AF) 4:4P

DH: Drawout horizontal 3:3P
(1000AF-6300AF) 4:4P


Step 3 Select Control Loop




Motor mechanism (MCH)




Closing voltage release (XF)




Shunt release (MX)



Under-voltage release (MN)



Under-voltage delayed release (MNR)



Auxiliary contact

Pole	Installation method
3:3P	DH: Drawout horizontal (1000AF-6300AF)
4:4P	FH: Fixed horizontal (1000AF-3200AF)
↓	↓
3	DH

Motor mechanism (MCH) + Closing release (XF)
D : DC220V
N : AC230V
V : AC400V
5: Without MCH & XF
↓
D

HDW6 Order Information

Selection of Breaker



Step 4

Select Intelligent Controller

- 1 Select Motor mechanism (MCH)
Closing release (XF)
- 2 Select Shunt release (MX)
Under-voltage release
- 3 Select Auxiliary contact

Motor mechanism (MCH) + Closing release (XF) (Must Option)

- D: DC220V
- N: AC230V
- V: AC400V

Shunt release (MX) (choose at least one of the Acc. from MX/MN/MNR)

- D: DC220V
- N: AC230V
- V: AC400V
- 5: Without shunt release

Undervoltage release (MN/MNR)

- N: AC230V
- V: AC400V
- P: With under-voltage delayed AC230V
- T: With under-voltage delayed AC400V
- 5: Without under-voltage release

Auxiliary contact (Must Option)

- 4: Four open and four close (1000AF)
- 6: Five open and five close (2000-6300AF)

- 1 Select intelligent controller



Shunt release (MX)	Under-voltage release	Auxiliary contact	ESW series intelligent controller
D: DC220V	N: AC230V	4: Four open and four close	M: ECW-M
N: AC230V	V: AC400V	6: Five open and five close	L: ECW-L
V: AC400V	P: With under-voltage delayed AC230V		H: ECW-H
5: W/out shunt release	T: With under-voltage delayed AC400V		
	5: Without under-voltage release		
↓	↓	↓	↓
D	5	4	L

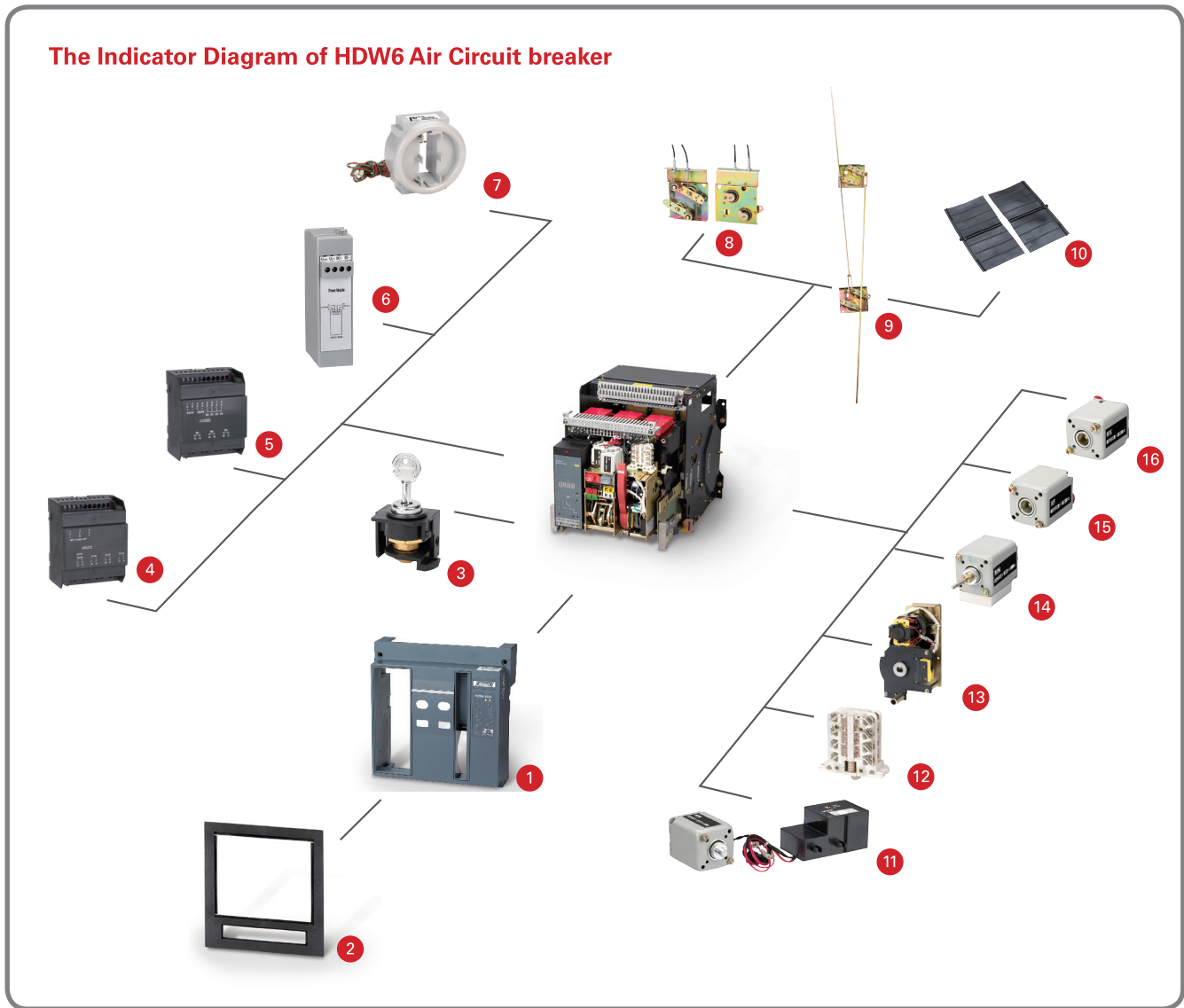
+

HDW6 Order Information

Accessories



The Indicator Diagram of HDW6 Air Circuit breaker



1 Front Cover	5 Relay module	9 Connecting-rod type mechanical interlock	13 Motor mechanism
2 Door frame	6 DC power supply module	10 Phase barrier	14 Undervoltage release
3 Key lock	7 N-phase circumscribed transformer	11 Undervoltage delayed release	15 Closing release
4 Power supply module	8 Cable mechanical interlock	12 Auxiliary contact	16 Shunt release

HDW6 Order Information

Accessories order Information



Accessory code

	Code	Accessory name	
• Control module accessory			
	HDW6AP	Power module	input AC230V/DC220V output DC24V 1000-6300AF
	HDW6DCP	DC Power module	input DC220V output DC24V 1000-6300AF
	HDW6R	Relay module	Capacity AC230V/DC24V input DC24V 1000-6300AF
• The accessory is for protection and measure			
N-phase circumscribed transformer	HDW6N1002	N-phase circumscribed transformer	(200A 1000AF)
	HDW6N1008	N-phase circumscribed transformer	(400A-800A 1000AF)
	HDW6N1010	N-phase circumscribed transformer	(1000A 1000AF)
	HDW6N2008	N-phase circumscribed transformer	(630A-800A 2000AF)
	HDW6N2020	N-phase circumscribed transformer	(1000A-2000A 2000AF)
	HDW6N3232	N-phase circumscribed transformer	(2000A-3200A 3200AF)
	HDW6N6363	N-phase circumscribed transformer	(4000A-6300A 6300AF)
• For lock function			
Buttoon lock	HDW6L3	Three locks and two keys	(2000-6300AF)
	HDW6L2	Two locks and one key	(2000-6300AF)
	HDW6L1	One lock and one key	(2000-6300AF)
• For power supply changeover			
Cable mechanical interlock	HDW6FL2	Fixed cable mechanical interlock (two)	
	HDW6FL3	Fixed cable mechanical interlock (three)	
	HDW6DL2	Drawout Cable mechanical interlock (two)	
	HDW6DL3	Drawout Cable mechanical interlock (three)	
Connecting-rod type mechanical interlock	HDW6FG2	Fixed connecting-rod type mechanical interlock (two)	
	HDW6FG3	Fixed connecting-rod type mechanical interlock (three)	
	HDW6DG2	Drawout connecting-rod type mechanical interlock (two)	
	HDW6DG3	Drawout connecting-rod type mechanical interlock (three)	

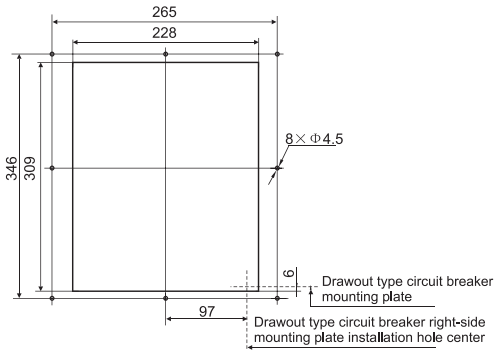
Radio Accessory Guide

If you need more extended function, choose accessory by yourself.
Please see the appendix, order goods on the basis of accessory code.

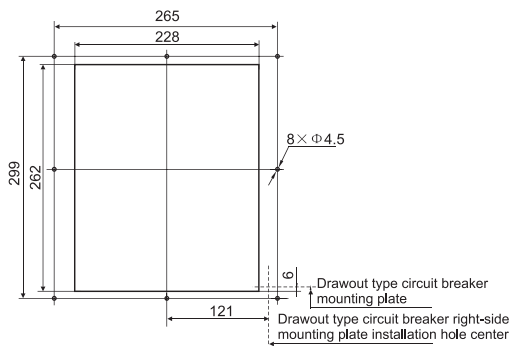
HDW6 Overall Dimensions



HDW6-1000



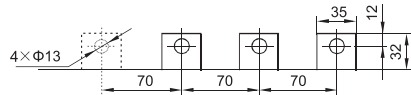
Doorframe(Drawout)



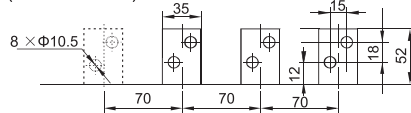
Doorframe(Fixed)

Busbar Dimension

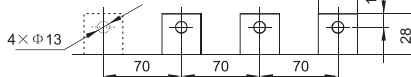
○ Drawer-Out
(200A,400A)



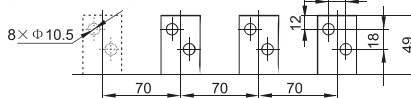
(630A~1000A)



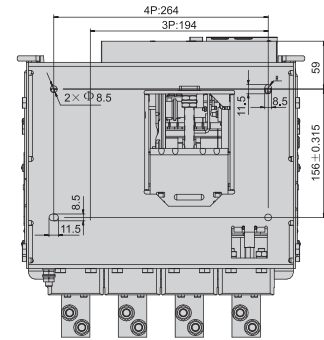
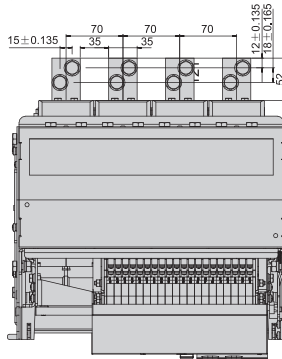
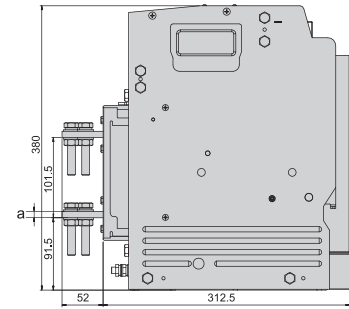
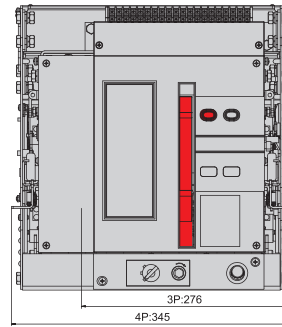
○ Fixed
(200A,400A)



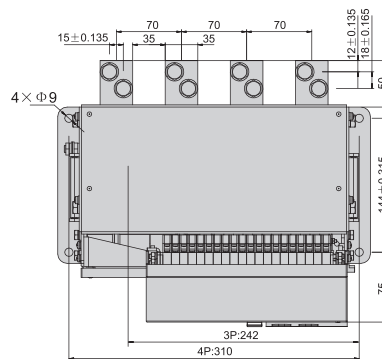
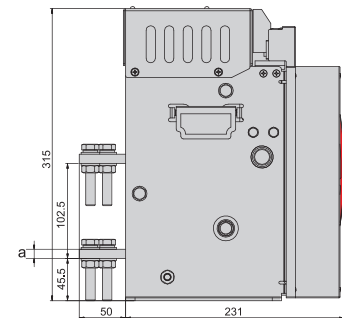
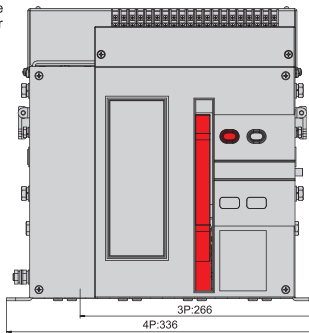
(630A~1000A)



Volume
○ Drawout



○ Fixed



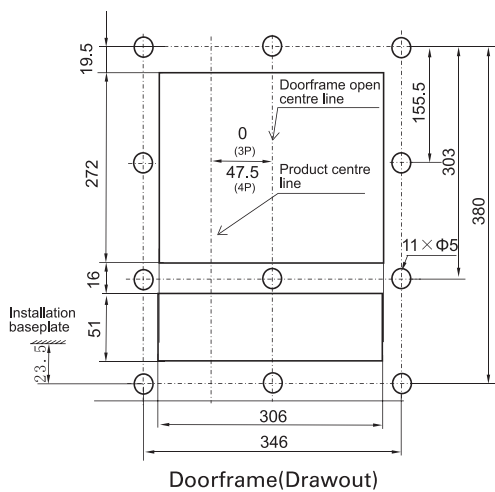
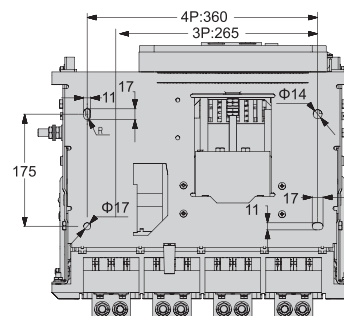
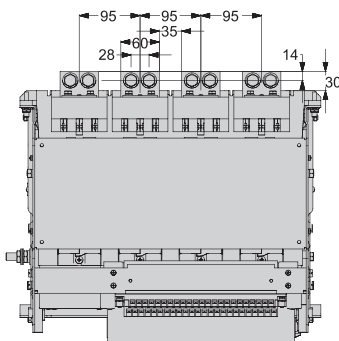
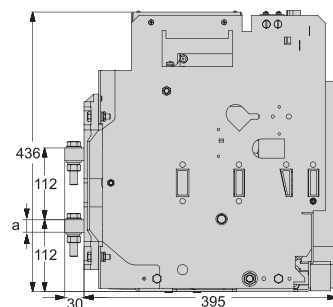
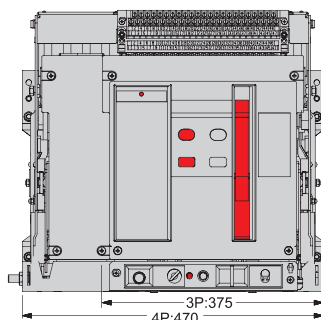
HDW6 Overall Dimensions



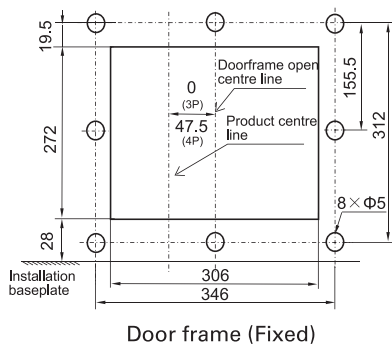
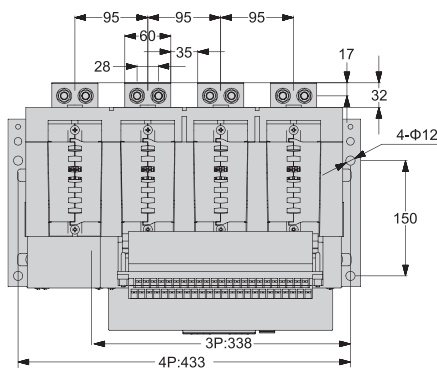
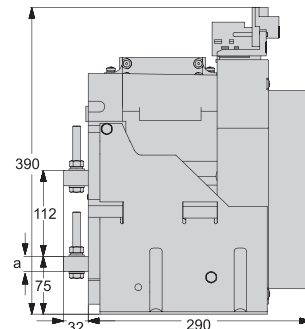
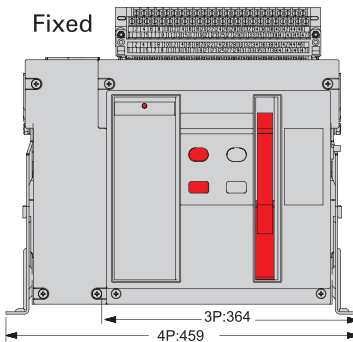
HDW6-2000



Volume Drawout



Fixed



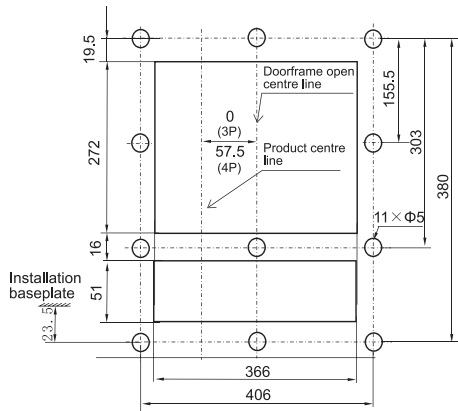
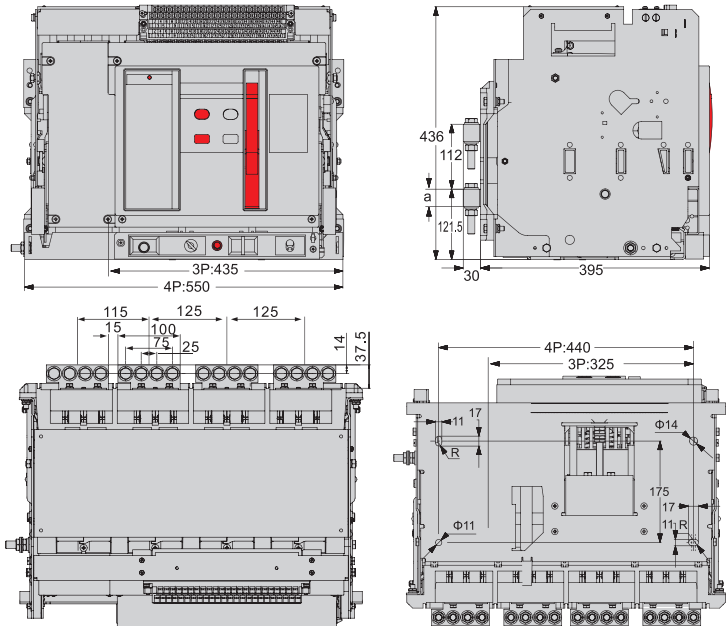
HDW6 Overall Dimensions



HDW6-3200

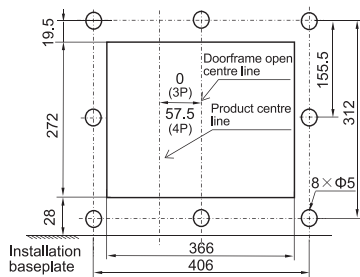
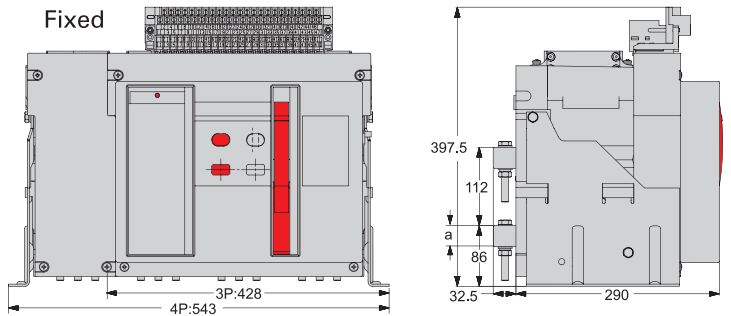


Volume Drawout

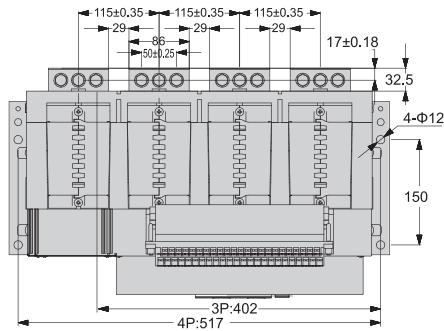


Door frame (Drawout)

Fixed



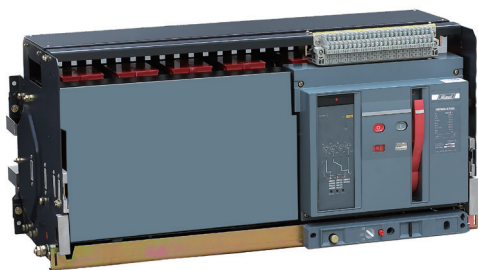
Door frame (Fixed)



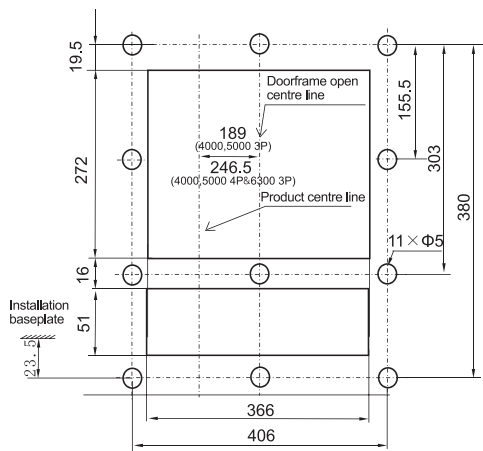
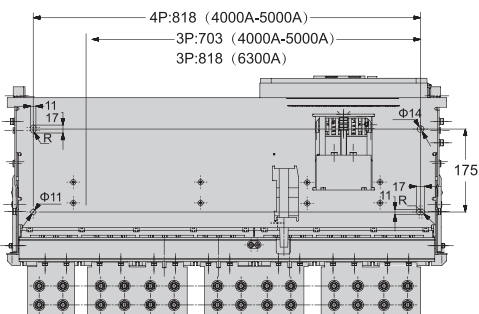
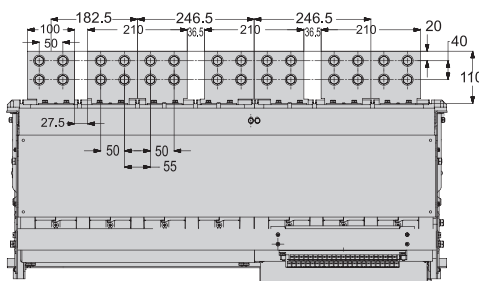
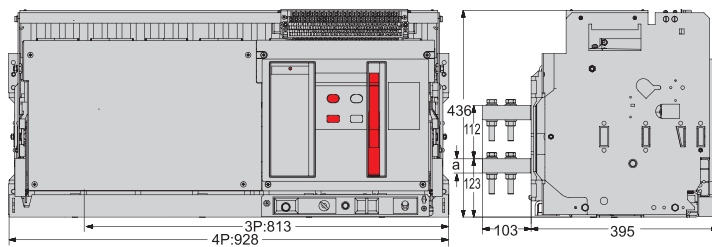
HDW6 Overall Dimensions



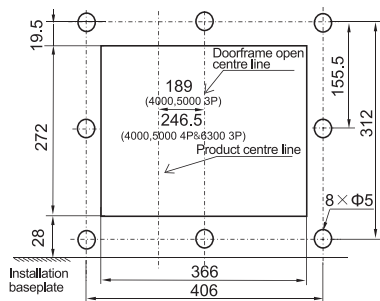
HDW6-6300



Volume



Doorframe(Drawout)



Door frame (Fixed)

HDW6 Technical Parameter

Technical Parameter



Common characteristics

Number of poles		3P, 4P
Rated insulation voltage U_i	V	800
Rated impulse withstand voltage U_{imp}	kV	8
Rated operational voltage U_e	V	400

Rated current

I_n (A)	In Frame (A)	1000	2000	3200	6300
200		•			
400		•			
630		•	•		
800		•	•		
1000		•	•		
1250			•		
1600			•		
2000			•	•	
2500				•	
3200				•	
4000					•
5000					•
6300					•

Breaking capacity

Rated ultimate short circuit breaking capacity I_{cu} (kA)	42	80	80	120
Rated service short circuit breaking capacity I_{cs} (kA)	30	50	80	100
Rated Short-Time Withstand Current I_{cw} (0.5s)	30			
Rated short circuit withstand current I_{cw} (kA/1s)		50	65	85

Service life

Mechanical Life with Maintenance	10000	10000	8000	5000
Mechanical Life without Maintenance	2500	2500	2500	2500
Electric Life with Maintenance	1000	1000	1000	800
Electric Life without Maintenance	500	500	500	500

HDW6 Technical Parameter

Intelligent controller



ECW-L

Function information

Protection		Use
Long time delay	L	Protect cable, prevent ageing
Short time delay	S	Protect equipment, prevent impedance short circuit
Instantaneous	I	Protect equipment, prevent metallicity short circuit
Earthing	G	Prevent fire



ECW-L

Protection characteristics

Setting range

Protection Characteristics for Overload Delay

Action current I_R 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0In+OFF

Delay time t_L 30s, 60s, 120s, 240s

Protection Characteristics for Short-Delay Short Circuit

Action current I_{sd} 3, 4, 5, 6, 7, 8, 10In+OFF

Action time t_s 0.2s, 0.4s

Protection Characteristics for Instantaneous Short Circuit

Action current I_i	Setting range	Remark
	(10, 11, 12, 14, 16, 18, 20) In+OFF	1000AF 2000AF
	(7, 8, 9, 10, 11, 12, 14) In+OFF	3200AF 6300AF

Earthing protection

Action current I_g 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8In+OFF

Actuation time t_g 0.1s, 0.2s, 0.3s, 0.4s

HDW6 Technical Parameter

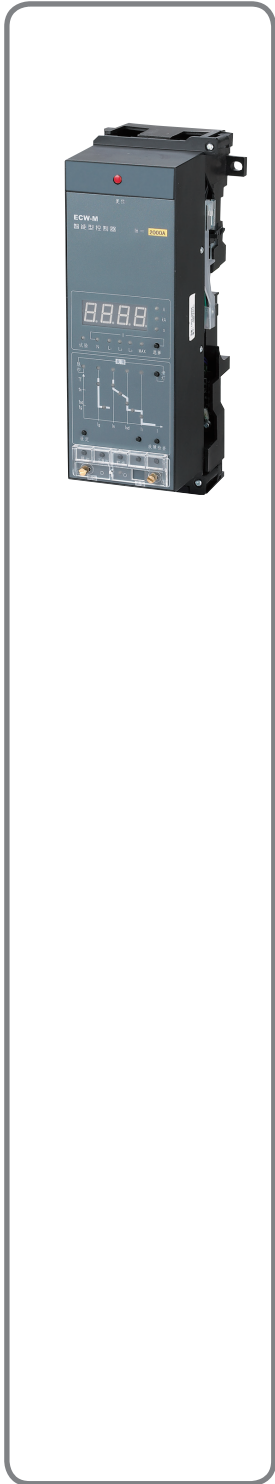
Intelligent controller



ECW-M

Function information	
Protection	Use
Long time delay	L Protect cable, prevent ageing
Short time delay	S Protect equipment, prevent impedance short circuit
Instantaneous	I Protect equipment, prevent metallicity short circuit
Earthing	G Prevent fire
Measure	
Current measurement	
Voltage measurement	
Miscellaneous function	
Pre-alarm	
Self-diagnosis function	
Fault log	
Test function	

ECW-M	Setting range			
Protection characteristics				
Protection Characteristics for Overload Delay				
Action current I_R	0.4~1.0In+OFF (>>100A)			
Delay time t_L	Fault current	Delay time		
	t_R	15 30 60 120 240 480		
	$1.5 \times I_R$	15 30 60 120 240 480		
	$2 \times I_R$	8.4 16.9 33.8 67.5 135 270		
	$7.2 \times I_R$	0.65 1.3 2.6 5.2 10.4 20.8		
$t = (1.5/N)^2 \times t_R$ N=Fault current divided by the setting current I/I_R t=Delay Time of Failure Action t_R =Setting Value of Long-Delay Time				
Protection Characteristics for Short-Delay Short Circuit				
Action current I_{sd}	(0.4~15)In+OFF Step setting 10kA below : $\leq 2A$, 10kA above $\leq 10A$			
Action time t_s	Inverse time Limit I^2T			
	Fault current	Delay time		
		ts(s)	0.1 0.2 0.3 0.4	
I^2T : OFF	Min.delay(ms)	60 160 255 340		
	Max.delay	140 240 345 460		
I^2T : ON	Min.delay	60 160 255 340		
	Max.delay	140 240 345 460		
$I > 8I_R$	Max.delay	140 240 345 460		
I^2T : ON	Inverse time limit delay	$t = (8I_R)^2 / I^2 \times t_s$		
$I \leq 8I_R$				
Protection Characteristics for Instantaneous Short Circuit				
	HDW6-1000	HDW6-2000	HDW6-3200	HDW6-6300
Action current I_i	2.0In~20kA+OFF	2.0In~50kA+OFF	2.0In~75kA+OFF	2.0In~100kA+OFF
Earthing Protection				
Action current I_g	0.2~1.0In+OFF			
Actuation time t_g	0.1s, 0.2s, 0.3s, 0.4s, OFF			



HDW6 Technical Parameter

Intelligent controller



ECW-H

Function Information

Protection		Use
Long time delay	L	Protect cable, prevent ageing
Short time delay	S	Protect equipment, prevent impedance short circuit
Instantaneous	I	Protect equipment, prevent metallicity short circuit
Earthing	G	Prevent fire

Measure

- Current measurement
- Voltage measurement
- Power measurement
- Harmonic wave measurement

Miscellaneous function

- Pre-alarm
- Self-diagnosis function
- Fault log
- Test function

Communication Function

ECW-H Protection characteristics

Parameter Name	Setting Range
----------------	---------------

Overload Long Time Delay

Action current I_R	OFF+0.4~1.0I _n
Protection curve	SI: Standard inverse time limit VI: Rapid inverse time limit EI(G): Express inverse time limit(distribution) EI(M): Express inverse time limit(electromotor) HV: High-Pressure Welding Fuse Compatibility I2t: Universal inverse time limit protection
Type selection	
Setting delay time	C01~C16

Protection Characteristics for Short Delay

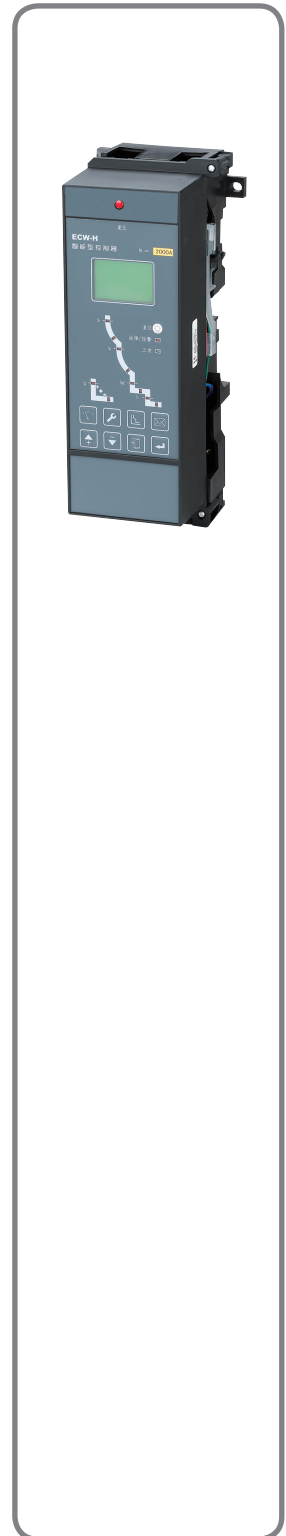
Action Current of Inverse Time Limit I _s	OFF+(0.4~15)I _n
Action Current of Fixed Time Limit I _{sd}	OFF+(0.4~15)I _n
Delay Time of Fixed Time Limit t _{sd}	0.1~0.4s

Instantaneous Protection Characteristics

Action current I _i	HDW6-1000	HDW6-2000	HDW6-3200	HDW6-6300
	2.0I _n ~20kA+OFF	2.0I _n ~50kA+OFF	2.0I _n ~75kA+OFF	2.0I _n ~100kA+OFF

Earthing Protection Characteristics

Action current I _g	OFF+(0.2~1.0)I _n
Inverse time limit shearing coefficient C _r	1.5~6, +OFF
Delay time t _g	(0.1~0.4)s



HDW6 Technical Parameter

Accessories



Long-distance operation

Shunt Release

- Function introduction
- When the breaker is stored and under specified voltage, Shunt release can make the breaker break through long-distance remote control.

Accessory parameter

Rated operational voltage V	AC230V AC400V DC220V
Operation voltage	(0.7-1.1)Us
Consumption	300VA(AC) 40W(DC)
Breaking time	<30ms

Under-voltage Release and Under-voltage Delay Release

- Function introduction
- The under-voltage release automatically opens a circuit breaker when voltage drops to a value ranging between 35% to 70% of the line voltage. After tripping the circuit breaker cannot be re-closed again when the voltage goes below 35% or until it returns to 85% of line voltage. Under-voltage relay release makes the breaker break in 1s-5s (adjustable)

Accessory parameter

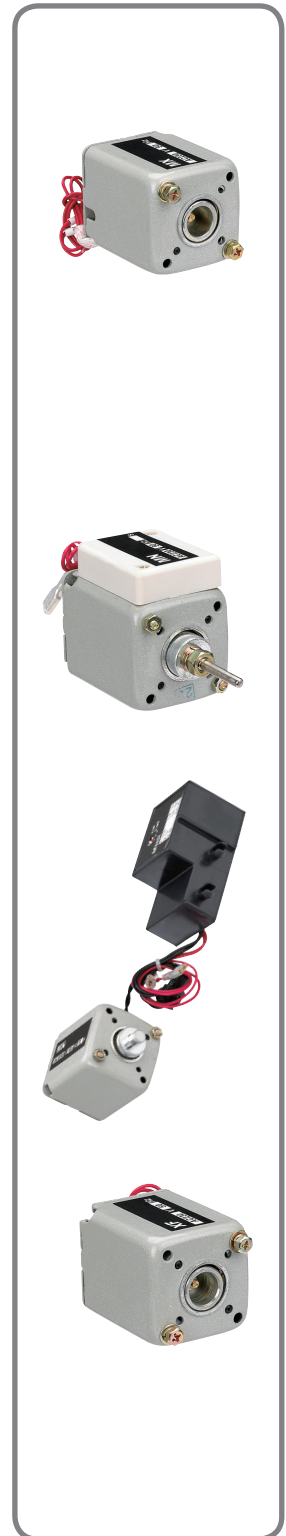
Rated operational voltage V	AC400V AC230V
Operational voltage	(0.35-0.7)Ue
Dependable closing voltage	(0.85-1.1)Ue
Unable closing voltage	$\leq 0.35Ue$
Consumption	12VA
Delay time	1s-5s

Closing Release

- Function introduction
- When the breaker is stored and under specified voltage, Shunt release can make the breaker close through long-distance remote control.

Accessory parameter

Rated operational voltage V	AC230V AC400V DC220V
Operational voltage	(0.85-1.1)Us
Consumption	300VA(AC) 40W(DC)
Breaking time	<70ms



HDW6 Technical Parameter

Accessories



Motor Mechanism

Function introduction

- When the breaker is open with power supply, MCH can store energy for ACB automatically, thus the breaker can be opened and closed with the operation of MX, MN, XF. It can be manually stored when there is no power.

Accessory parameter

Rated control power voltage V	AC230V AC400V DC220V
Action voltage	(0.85-1.1)Us
Consumption	150W (maxi.)
Energy storage time	<5s

Auxiliary Contact

Function introduction

- Used for keeping watch on the breaker's status, connecting position signal light and breaking indicator light

Accessory parameter

Utilization category			AC-15	DC13
Auxiliary contact default type			5NO 5NC (4NO 4NC for 1000AF)	
Conventional thermal current I _{th}			6A	
Auxiliary contact's energized operational performance			Equal to circuit breaker operation performance	
Making & breaking capacity	Under normal conditions	I _{le} making	10	1
		I _{le} breaking	1	1
		U/U _e	1	1
		COS or T0.95	0.3	6Pe
				10
Under abnormal conditions		U/U _e	0.3	6Pe
		I _{le}	10	10
		COS or T0.95		
		Operation cycles		



HDW6 Technical Parameter

Accessories



Transformer

N-phase Circumscribed Transformer

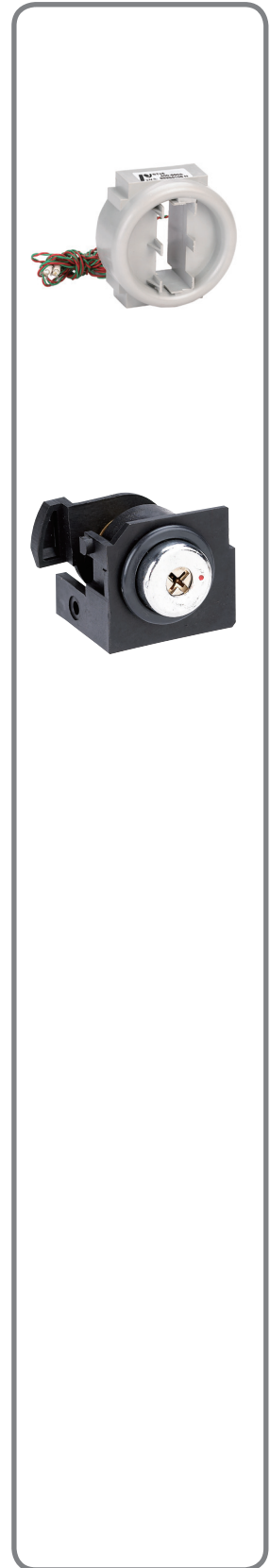
- Function introduction
- The 3P+N earth connection is used to measure the current of the neutral phase

Note: 1. Only for 3P Breaker, and the Intelligent Controller should be 4P
2. Max connection distance is 2M
3. Customize according to the Intelligent Controller

Lock

Divide Release Lock

- Function introduction
- When the breaker is breaking, it can lock in
- It is divided into three types:
 - one lock and one key
 - two locks and one key
 - three locks and two keys



HDW6 Technical Parameter

Accessories



Connection

Cable Mechanical Interlock

- Function introduction
- Can connect two or three breakers for linking

Note: Max horizontal installation distance is 2M

Connecting-rod Type Mechanical Interlock

- Function introduction
- It could connect two breakers to be linkage, one of the breakers is closing, the other is breaking

Note: Only for vertical installation, the max installation distance is 0.9M

Phase Barrier

- Function introduction
- It can increase creeping distance and prevent to engender electric arc when installed in the middle of the breaker busbar.

Intelligent Controller Accessory

DC Power Module

- Function introduction
- In the alternating current, supply auxiliary power supply for intelligent controller
- Used for ST201 relay module or DC controller power supply



HDW6 Technical Parameter

Accessories



Power Module

- Function introduction
- In direct current, supply auxiliary power supply for intelligent controller

Relay Module

- Function introduction
- Exporting signal element is used for failure warning or indication

Note: HDW6AP & HDW6R only for H Intelligent Controller and are used together as a set

Other accessories

Door frame

- Function introduction
- Install on the power distribution cabinet door, increase IP protection grade to IP40



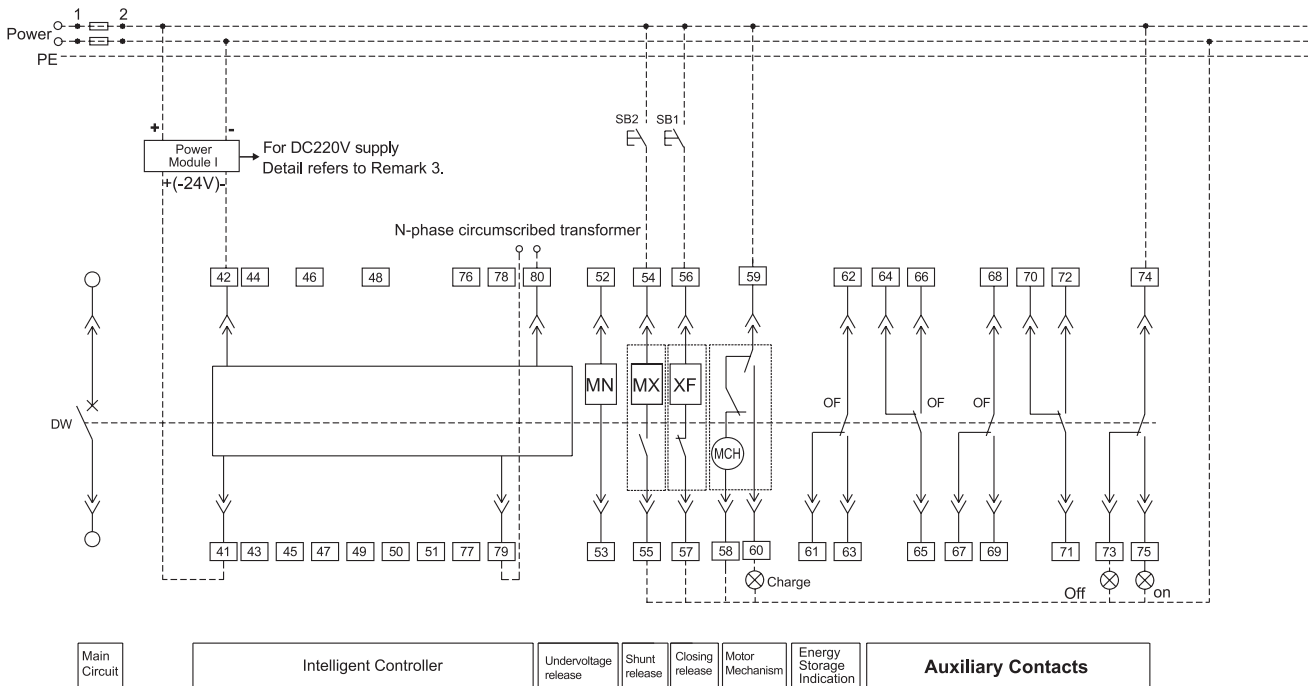
HDW6 Technical Parameter

Accessories



Low-voltage Distribution

• L -Type and M-Type Intelligent Controller (1000AF)



Pin Function:

41# and 42#: auxiliary supply input terminal,
79#, 80#: input for circumscribed transformer

Remarks 1: terminal 52# ~ 53# of MN undervoltage release connect to main circuit

Remarks 2: MN, MX, XF and MCH shall be connected with different powers because of different control supply. When auxiliary contact OF is 4a4b, MX Shunt-trip Release and MN Closing Release shall be tandem connected with NO and NO auxiliary contacts in the factory

Remarks 3: Power Module 1 is DC Power Module. No DC power Module when the power is AC power supply. The input & output terminals cannot be connected reversely. (the draw-out type output terminal has been connected in the factory)

Remarks 4: The auxiliary contact is four-open and four-close; 79# and 80# are input terminals for circumscribed transformer, applied for (3P+N) T type earthing failure protection

Components:

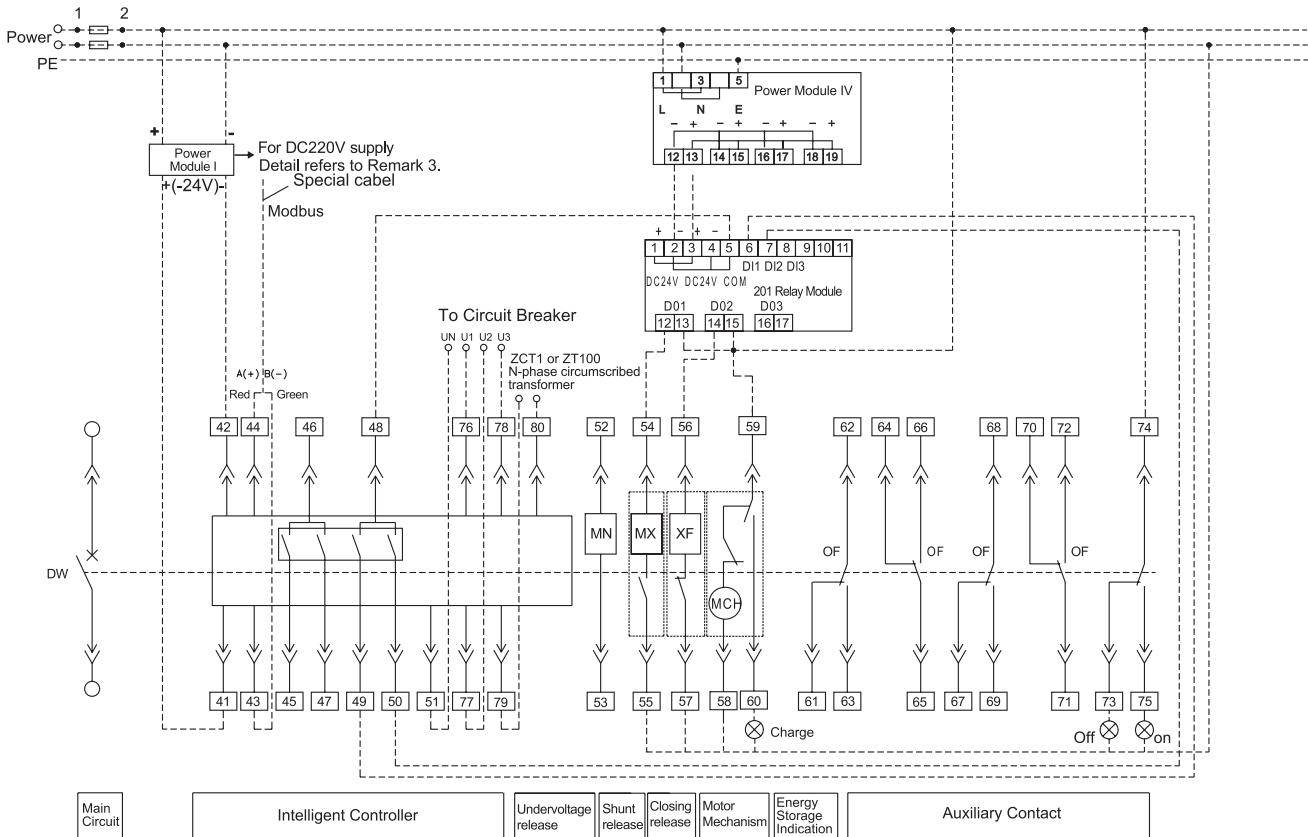
- MN – Undervoltage Release
- MX – Shunt Release
- XF – Closing Release
- OF – Auxiliary Contacts
- MCH – Motor Mechanism
- SB1 – Make Button
- SB2 – Opening Button

HDW6 Technical Parameter

Accessories



• H-Type Intelligent Controller (1000AF)



Pin Function:

- 41# and 42#: Auxiliary supply input terminal
- 43# and 44#: Respective output communication wire of RS485B and RS485A
- 45#: Alarm signal output
- 46#: Signal contact output shared terminal 1
- 47#: Error tripping output
- 48#: Signal contact output shared terminal 1
- 49#: Communication remote control Shunt trip release output
- 50#: Communication remote control make output
- 51#: Neuter line voltage signal (N phase)
- 76#: Voltage signal A phase
- 77#: Voltage signal B phase
- 78#: Voltage signal C phase
- 79#,80#: Input of circumscribed transformer

Components:

- MN — Under-voltage Release
- MX — Shunt Release
- XF — Closing Release
- OF — Auxiliary Contact
- MCH — Motor Mechanism
- ZCT1 — Leakage transformer
- ZT100 — Earthing transformer

Remarks 1: Terminal 52# ~ 53# of MN undervoltage release connect to main circuit

Remarks 2: MN, MX, XF and MCH shall be connected with different powers because of different control supply. When auxiliary contact OF is 4a4b, MX shunt-trip Release and XF Closing release shall be tandem connected with NO and NO auxiliary contacts in the factory

Remarks 3: Power Module 1 is DC Power Module. No DC power Module when the power is AC power supply. The input & output terminals cannot be connected reversely. (the draw-out type output terminal has been connected in the factory)

Remarks 4: The auxiliary contact is four-open and four-close; 79# and 80# are input terminal for circumscribed transformer, applied for (3P+N) T type earthing failure protection. or connect ZCT1 or ZT100 (should order extra)

Remarks 5: Long-range control should add 201 relay module and power module IV the capacity of relay module is: AC230V, 10A; DC24V, 10A

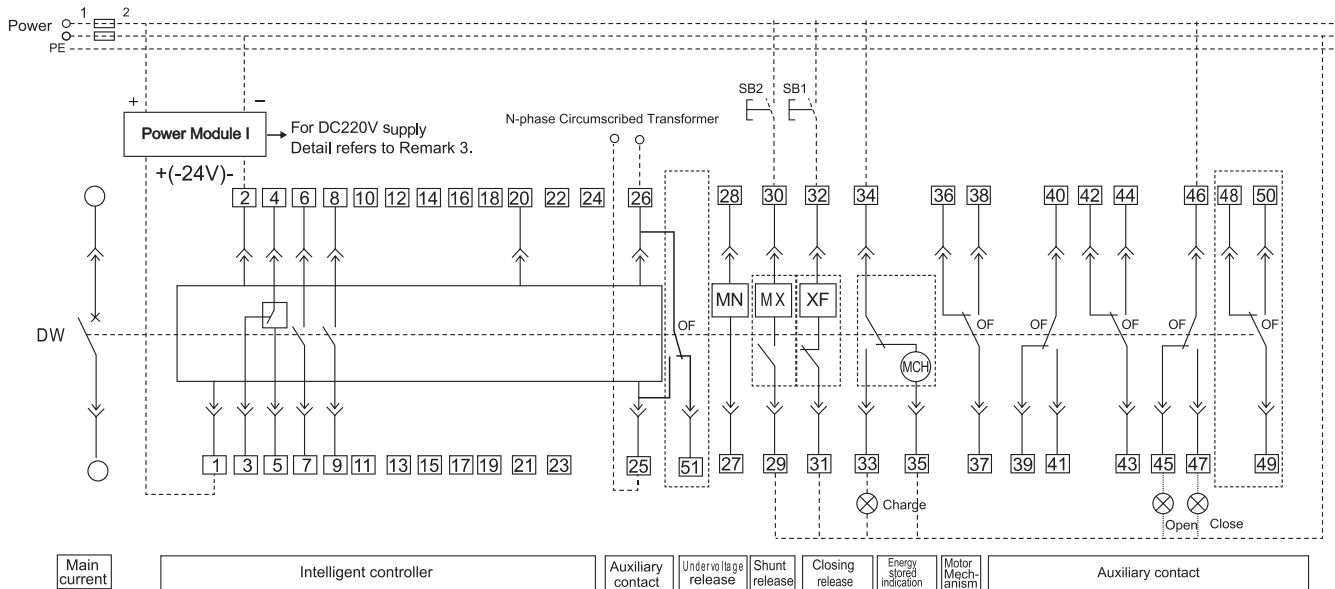
Remarks 6: Communication agreement is Modbus. If use Profibus or other arrangement, it will require an extra order
Power module IV and 201 relay module needs an extra order

HDW6 Technical Parameter

Accessories



• L-Type and M-Type Intelligent Controller (2000-6300AF)



Pin Function:

- 1# and 2#: Auxiliary supply input terminal, 1# for positive terminal when being DC
- 3#, 4# and 5#: Contact output of tripping fault (4# refers to shared terminal)
- Contact capacity: AC 380V, 16A
- 6#, 7#, 8# and 9#: Two groups of auxiliary terminals with circuit breaker status
- Contact capacity: AC 380V, 16A

- 20#: PE wire, protection earthing wire
- 25# ~26#: Output for circumscribed transformer

Components:

- MN — Undervoltage Release
- MX — Shunt Release
- XF — Closing Release
- OF — Auxiliary Contacts
- MCH — Motor Mechanism
- SB1 — Make Button
- SB2 — Opening Button

Remarks 1: Terminal 27# ~ 28# of MN undervoltage release connect to main circuit

Remarks 2: MN, MX, XF and MCH shall be connected with different powers because of control supply voltage. Auxiliary contact OF is 5a5b, MX Shunt Release and XF Closing Release have been tandem connected with normal open and normal close auxiliary contacts in the factory

Remarks 3: Terminal 35# can not only be connected to the power supply directly (automatic pre-storing energy), but also to the power supply after adopting tandem connection with normal open button (manual pre-storing energy)

Remarks 4: Power Module 1 is DC Power Module. No DC power Module when the power is AC power supply. The input & output terminals cannot be connected reversely (the draw-out type output terminal has been connected in the factory)

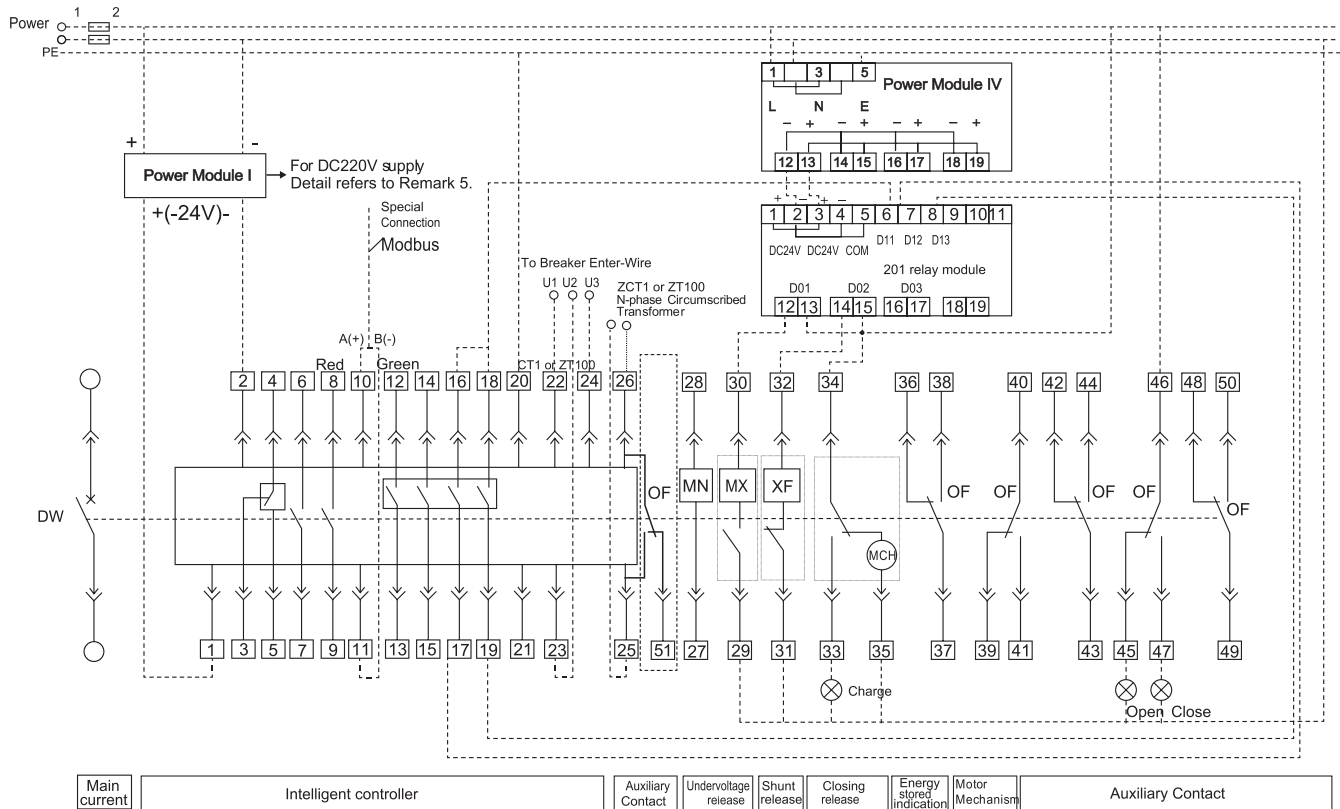
Remarks 5: The auxiliary contact is five open and five close, 25# and 26# are circumscribed transformer, applied for (3P+N)T type earthing failure protection

HDW6 Technical Parameter

Accessories



• H-Type Intelligent Controller (2000-6300AF)



Pin Function:

- 1# and 2#: Auxiliary supply input terminal, 1# for positive terminal when being DC
- 3#, 4# and 5#: Contact output of tripping fault (4# refers to shared terminal)
- Contact capacity: AC 380V, 16A
- 6#, 7#, 8# and 9#: Two groups of auxiliary terminals with circuit breaker status
- Contact capacity: AC 380V, 16A
- 10# and 11#: Respective output wire of RS485A and RS485B communication
- 12#, 13#: Alarm signal output
- 14#, 15#: Error tripping signal output
- 16#, 17#: Communication remote control Shunt Release output
- 18#, 19#: Communication remote control make output
- 20#: PE Line, shielding earthing line.
- 21#: Neuter line voltage signal (N phase)
- 22#: Voltage signal A phase
- 23#: Voltage signal B phase
- 24#: Voltage signal C phase
- 25#, 26#: Input of circumscribed transformer

Components:

- MN — Under-voltage Release
- MX — Shunt Release
- XF — Closing Release
- OF — Auxiliary Contact
- MCH — Motor Mechanism
- ZCT1 — Leakage transformer
- ZT100 — Earthing transformer

Remarks 1: Terminal 27#~28# of MN undervoltage release connect to main circuit

Remarks 2: MN, MX, XF and MCH shall be connected with different powers because of control supply voltage. Auxiliary contact OF is 5a5b, MX Shunt Release and XF Closing Release have been tandem connected with normal open and normal close auxiliary contacts in the factory

Remarks 3: Terminal 35# can not only be connected to the power supply directly (automatic pre-storing energy), but also to the power supply after adopting tandem connection with normal open button (manual pre-storing energy)

Remarks 4: Power Module 1 is DC Power Module, and there is no such Module when the power is AC power supply. The input & output terminals cannot be connected reversely (the draw-out type output terminal has been connected in the factory)

Remarks 5: The auxiliary contact is five-open and five-close, 25# and 26# are circumscribed transformer, applied for (3P+N)T type earthing failure protection, or connect Z CT1 or ZT100 (extra order required)

Remarks 6: Long-range control should add 201 relay module and power module IV. The capacity of relay module is: AC230V, 10A; DC24V, 10A.

Remarks 7: Communication agreement is Modbus. If use Profibus or other agreement, it requires an extra order. Power module IV and 201 relay module needs an extra order.