

HDW6 Order Information

select Guide

Low-voltage Distribution

1

Select current

① Select frame

② Select current



1000A Frame 2000A Frame 3200A Frame



6300A Frame

10:1000A Frame

l_{cu} 42
l_{cs} 30
l_{cw}(0.5s) 30

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

20:2000A Frame

l_{cu} 80
l_{cs} 50
l_{cw}(1s) 50

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

32:3200A Frame

l_{cu} 80
l_{cs} 80
l_{cw}(1s) 65

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

63:6300A Frame

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

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

Doorframe and phase barrier are acquiescent

Product 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		
		10: 1000A	32: 3200A		
	↓	↓			
W6	+ 20	16	+		

For example **W620163DHDD54L**

HDW6 Order Information

select Guide

Select of breaker

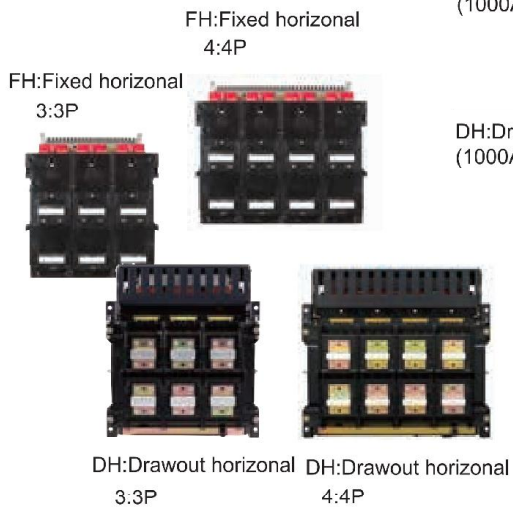
2

Select form

① Select installation way

3

Select control loop



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

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



Motor mechanism (MCH)



Closing voltage release (XF)



Shunt release (MX)



Undervoltage release (MN)



Undervoltage 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

4 Select intelligent controller

① Select intelligent controller

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

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

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

Shunt release(MX) (At least choose 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 undervoltage delayed AC230V
- T : With undervoltage delayed AC400V
- 5 : Without undervoltage release

Auxiliary contact (Must Option)

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

Shunt release(MX)	Undervoltage release	Auxiliary contact
D : DC220V	N : AC230V	4 : four open and four close
N : AC230V	V : AC400V	6 : five open and five close
V : AC400V	P : With undervoltage delayed AC230V	
5 : Without shunt release	T : With undervoltage delayed AC400V	
	5 : Without undervoltage release	
↓	↓	↓
D	5	4



ECW-L

Select intelligent controller

ECW-L: basic protection



ECW-M

ECW-M: standard protection



ECW-H

ECW-H: advanced protection

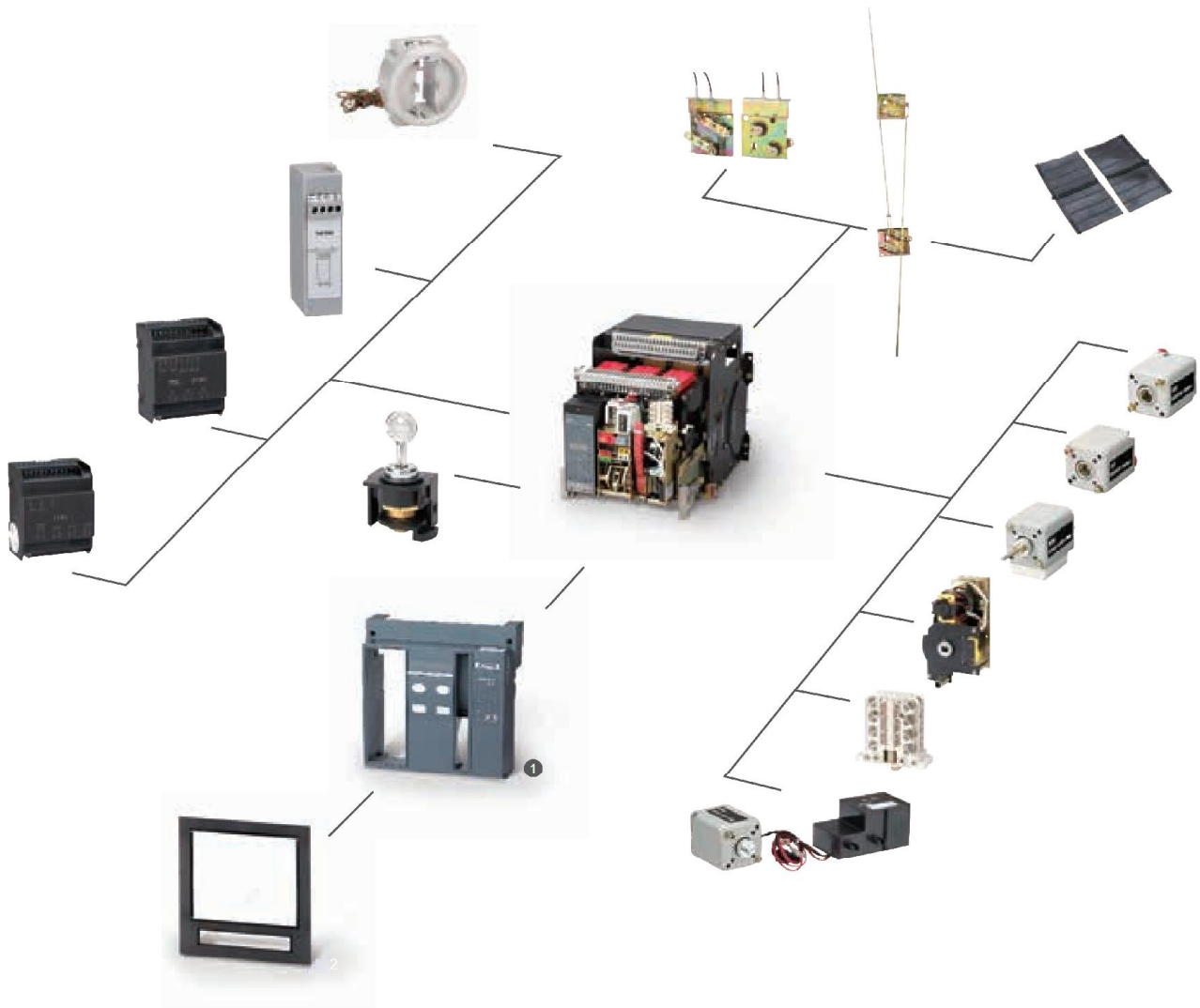
ESW series intelligent controller
M : ECW-M
L : ECW-L
H : ECW-H
↓
+
L

HDW6 Order Information

Accessories

The Indicator Diagram of HDW6 Air Circuit Breaker

Low-voltage Distribution



1	Veil	5	Relay module	9	Connecting-rod type mechanical interlock	13	Motor mechanism
2	Doorframe	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

Radio Accessory Guide

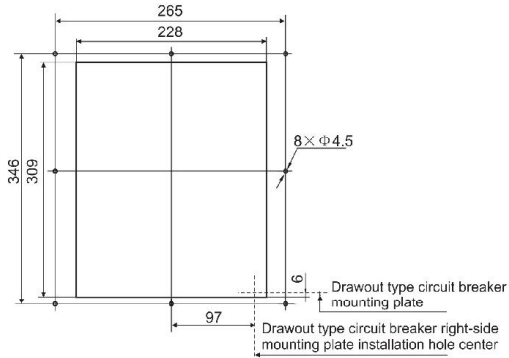
If you need more extended function, choose accessory by yourself. (Please see the appendix, order goods on the basis of accessory code.)

Accessory code

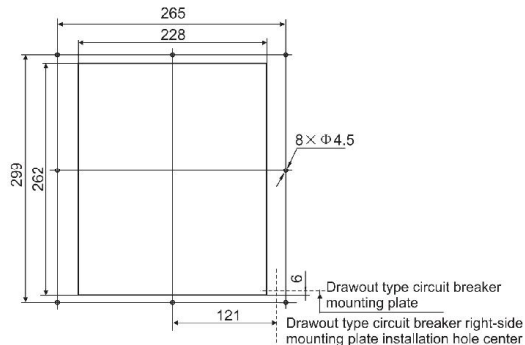
	Code	Accessory name	
• Control module accessory			
	HDW6AP	Power module	input AC230V/DC220V output DC24V 1000-6300AF
	HDW6DCP	DC power module	input DC220V output DC24V 1000-6300AF
	HDW6R	Relay module	Capacity AC230V/DC24V input DC24V 1000-6300AF
• The accessory is for protection and measure			
N-phase 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	(1000-2000A 2000AF)
	HDW6N3232	N-phase circumscribed transformer	(2000A-3200A 3200AF)
	HDW6N6363	N-phase circumscribed transformer	(4000A-6300A 6300AF)
• For lock function			
Button 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	Drawout connecting-rod type mechanical interlock(two)	
	HDW6DG2	Fixed connecting-rod type mechanical interlock(three)	
	HDW6DG3	Drawout connecting-rod type mechanical interlock(three)	

HDW6 Overall Dimensions

HDW6-1000



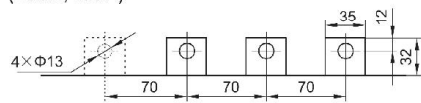
Doorframe(Drawout)



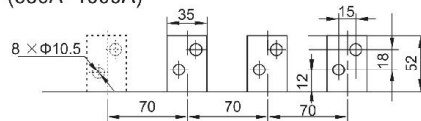
Doorframe(Fixed)

Busbar Dimension

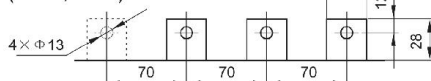
○ Drawer-Out
(200A,400A)



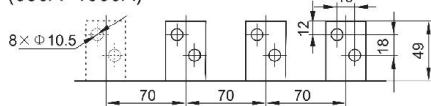
(630A~1000A)



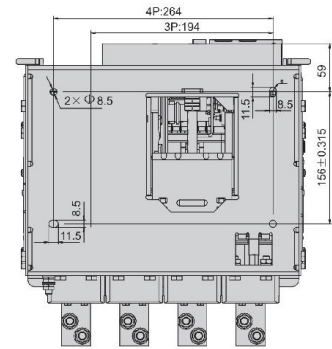
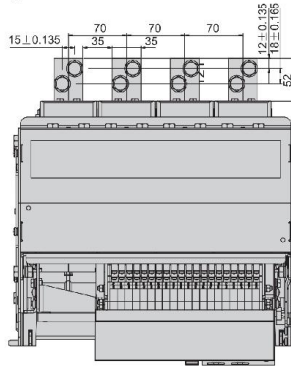
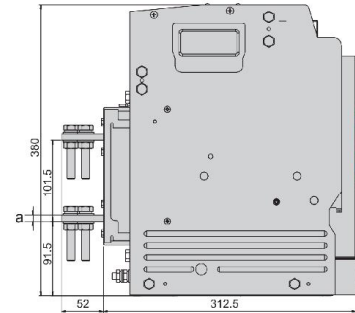
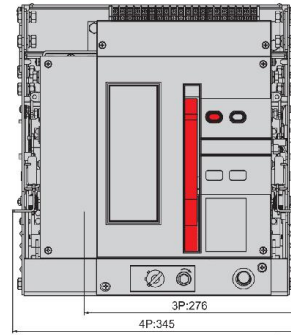
○ Fixed
(200A,400A)



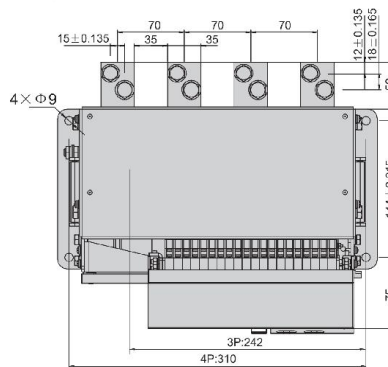
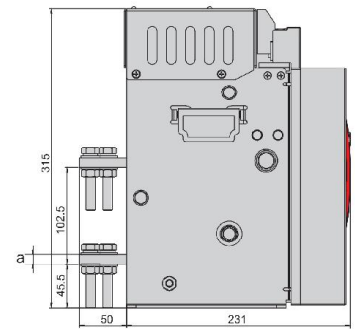
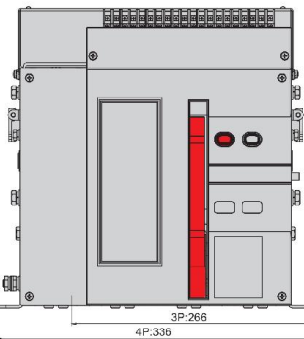
(630A~1000A)



Volume
○ Drawout



○ Fixed



Low-voltage Distribution

HDW6 Overall Dimensions



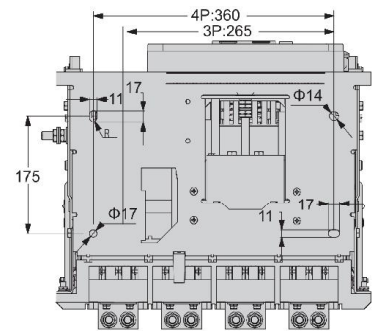
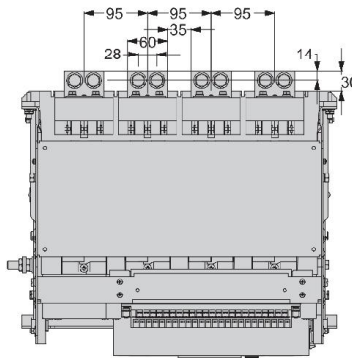
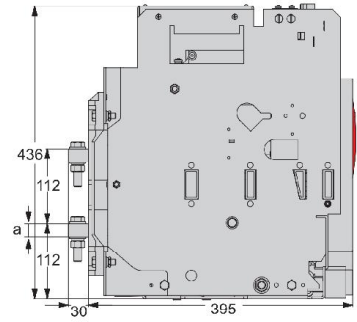
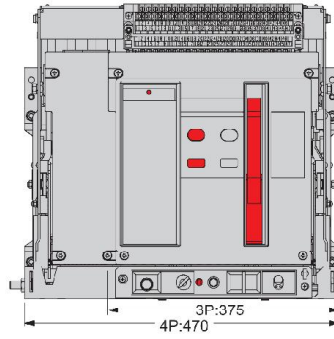
HDW6-2000

Low-voltage Distribution

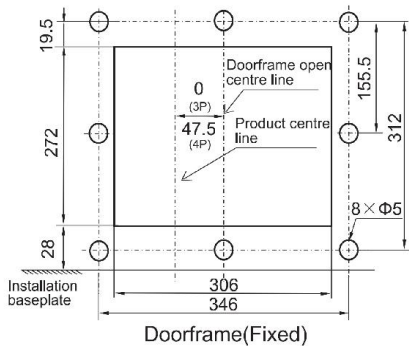
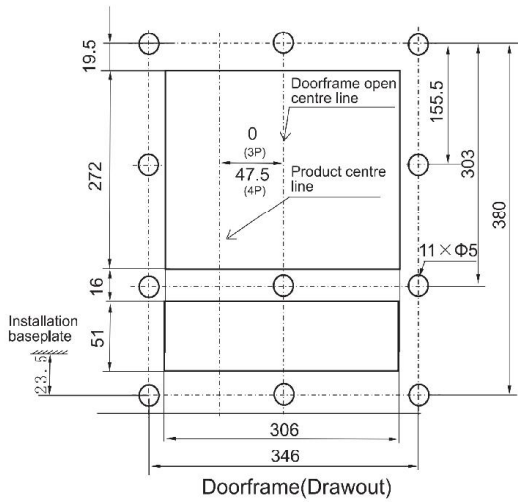
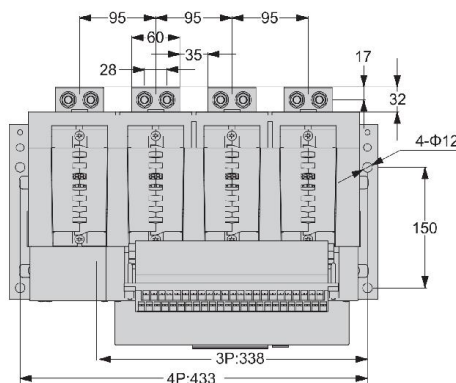
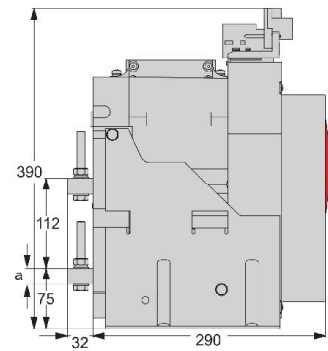
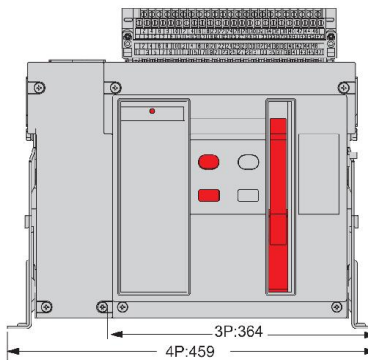


Volume

- Drawout



- Fixed



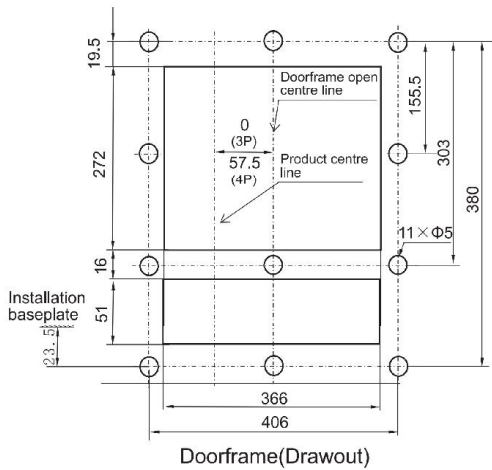
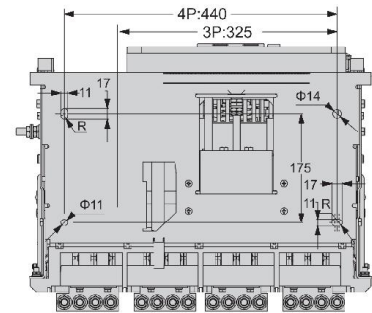
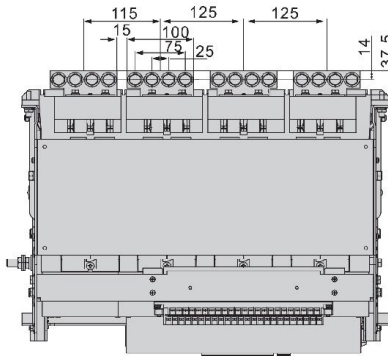
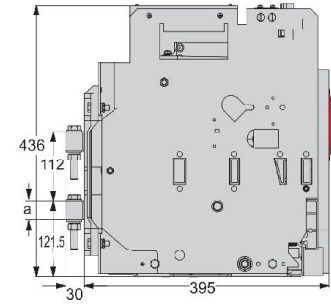
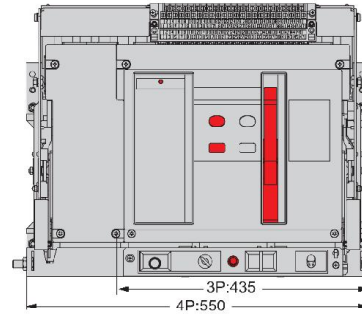
HDW6 Overall Dimensions



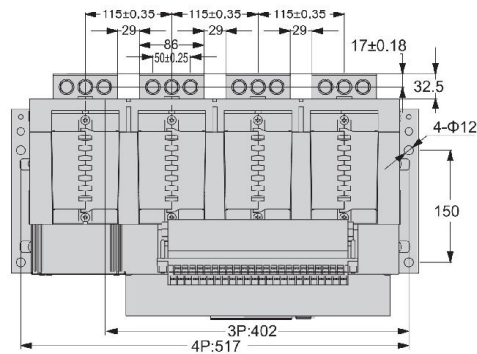
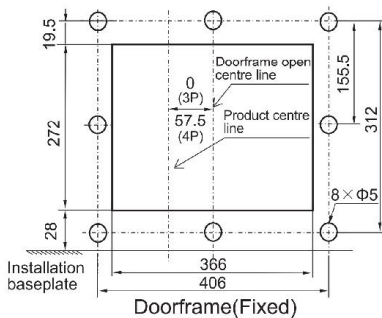
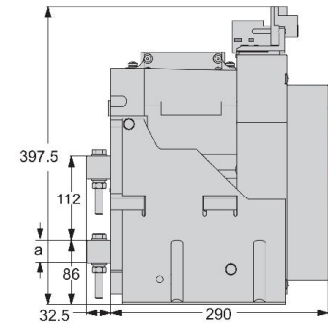
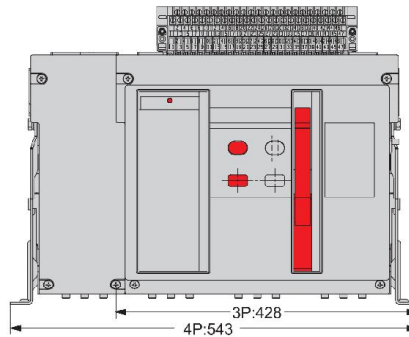
HDW6-3200

Volume

- Drawout



- Fixed



Low-voltage Distribution

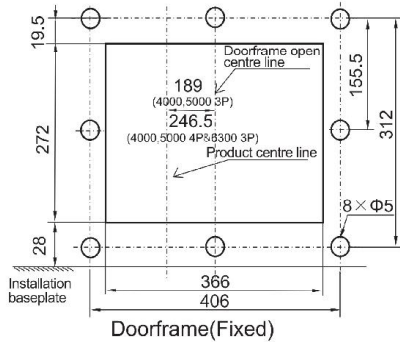
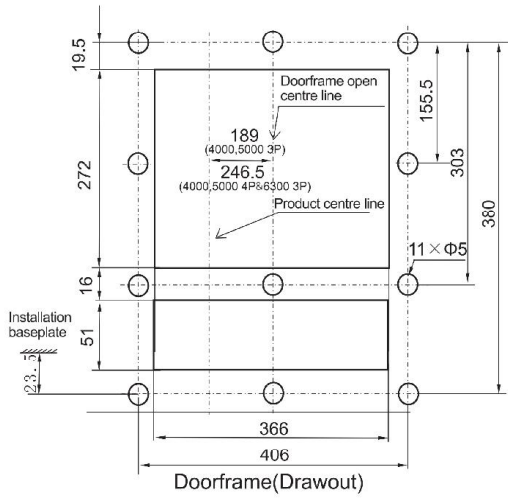
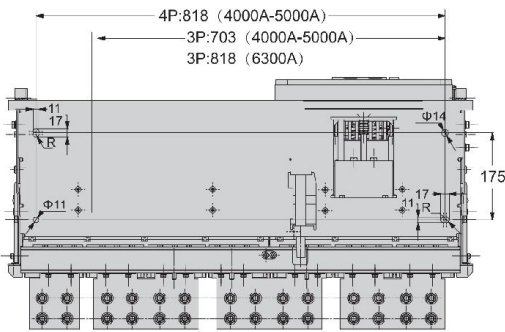
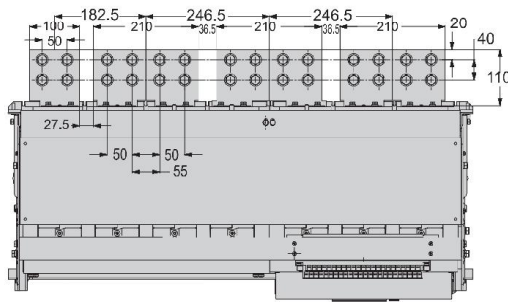
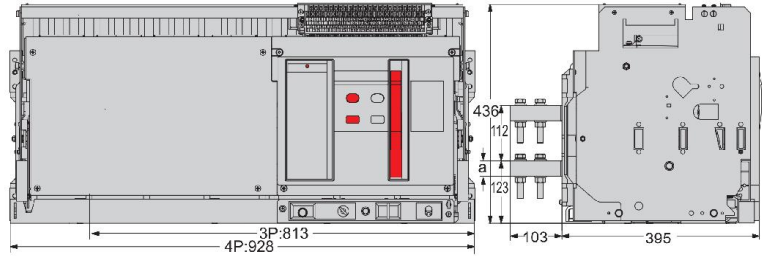
HDW6 Overall Dimensions



HDW6-6300

Volume

Low-voltage Distribution



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				•

Low-voltage Distribution

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



Low-voltage Distribution

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 protection characteristics

Setting range

Protection Characteristics for Overload Delay

Action current I_R 0.4~1.0In+OFF (>>100A)

Delay time t_L	Fault current						
	t_R	15	30	60	120	240	480
1.5xI _R	15	30	60	120	240	480	
2xI _R	8.4	16.9	33.8	67.5	135	270	
7.2xI _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} 0.4~15In+OFF Step setting 10kA below : ≤ 2A, 10kA above ≤ 10A

Action time t_s Inverse time Limit I²T

Fault current	Delay time				
	ts(s)	0.1	0.2	0.3	0.4
I ² T: OFF	Min.delay(ms)	60	160	255	340
	Max.delay	140	240	345	460
I ² T: ON	Min.delay	60	160	255	340
	I>8I _R Max.delay	140	240	345	460
I ² T: ON	Inverse time limit delay	t=(8I _R) ² /I ² ×ts			
I≤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_c 0.1s, 0.2s, 0.3s, 0.4s, OFF

Low-voltage Distribution

HDW6 Technical Parameter

Intelligent controller



ECW-H



Low-voltage Distribution

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+0.4~1.0In
Protection curve	SI: Standard inverse time limit
Type selection	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
Setting delay time	C01~C16

Protection Characteristics for Short Delay

Action Current of Inverse Time Limit I_s	OFF+(0.4~15)In
Action Current of Fixed Time Limit I_{sd}	OFF+(0.4~15)In
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
	2.0In~20kA+OFF	2.0In~50kA+OFF	2.0In~75kA+OFF	2.0In~100kA+OFF

Earthing protection Characteristics

Action current I_g	OFF+0.2~1.0xIn
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 introduce
 - When the breaker is stored, under prescriptive voltage, through long-distance remote control operation, let the breaker break



Accessory parameter

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

Undervoltage release and undervoltage delay release

- Function introduce
 - The undervoltage 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 lowers than 35% or until returns to 85% of line voltage. Undervoltage relay release lets 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 introduce
 - When the breaker is stored, under prescriptive voltage, through long-distance remote control operation, let the breaker close

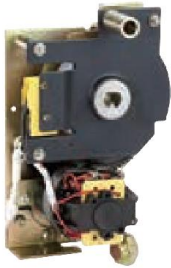


Accessory parameter

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 introduce
 - When the breaker is under breaking and power supply, motor mechanism is automatic stored. So under shunt release, undervoltage and closing release, let the breaker break and close

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

Low-voltage Distribution



Auxiliary contact

- Function introduce
 - It is 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 Ith			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
	Under abnormal conditions	U/Us	1	1
		COSφ or T0.95	0.3	6Pe*
		U/Us	10	1.1
		I/le	1.1	1.1
		COSφ or T0.95	0.3	6Pe*
		Operation cycles	10	10

HDW6 Technical Parameter

Accessories



Transformer

N-phase Circumscribed Transformer

- Function introduce
 - In the 3P+N earth connection, it 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 connect distance is 2M;
3. Customize according to the Intelligent Controller.



Lock

Divide Release Lock

- Function introduce
 - When the breaker is breaking, it could be 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 introduce
 - It could connect two or three breakers to be linkage.

Note: The Max Horizontal installation distance is 2M;



Connecting-rod Type Mechanical Interlock

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

Note: Only for Vertical installation, and the Max installation distance is 0.9M;



Phase Barrier

- Function introduce
 - Install in the middle of the breaker busbar, increase creepage distance, prevent to engender electric arc



Intelligent controller accessory

DC Power Module

- Function introduce
 - In the alternating current, supply auxiliary power supply for intelligent controller
 - It is used for ST201 relay module or DC controller power supply

Low-voltage Distribution

HDW6 Technical Parameter

Accessories



Power Module

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



Relay Module

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

Note: HDW6AP & HDW6R only for H Intelligent Controller, and they use together as a set.



Other accessories

Doorframe

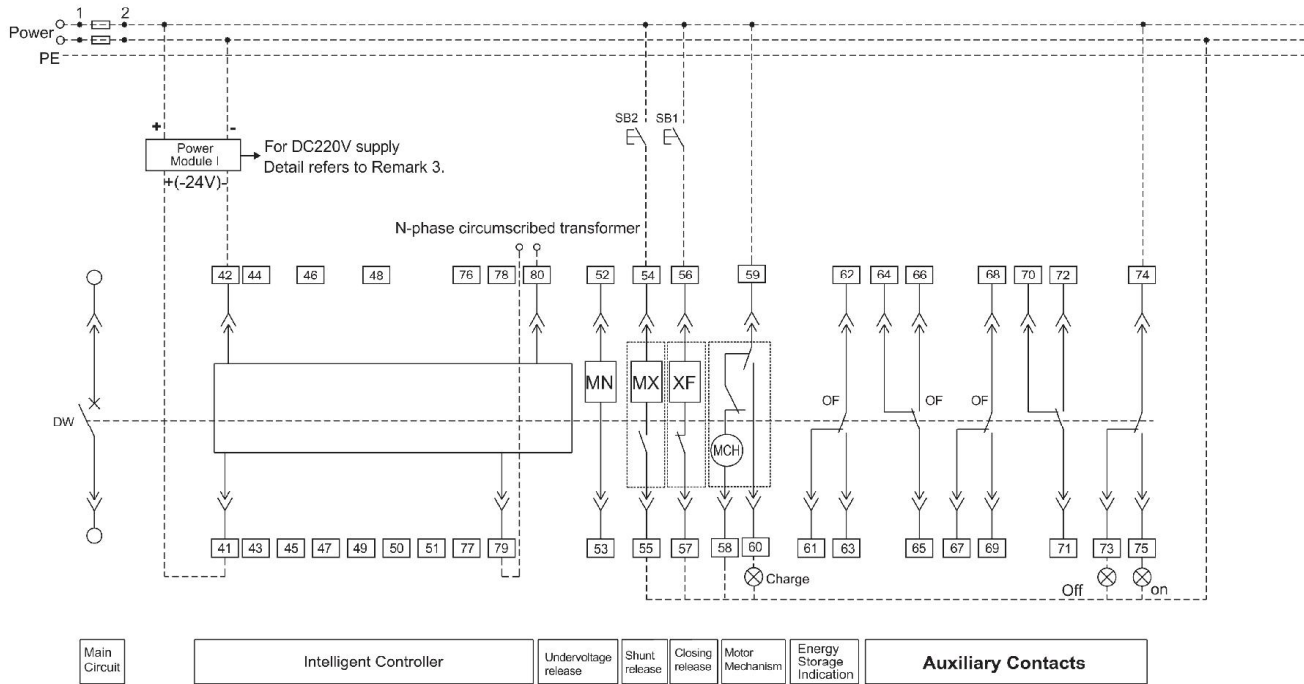
- Function introduce
 - Install on the power distribution cabinet door, increase IP protection grade to IP40

HDW6 Technical Parameter

Accessories



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



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

Pin Function:

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

Remarks 2: MN, MX, XF and MCH shall be connected with different power 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 drawer-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.

Components:

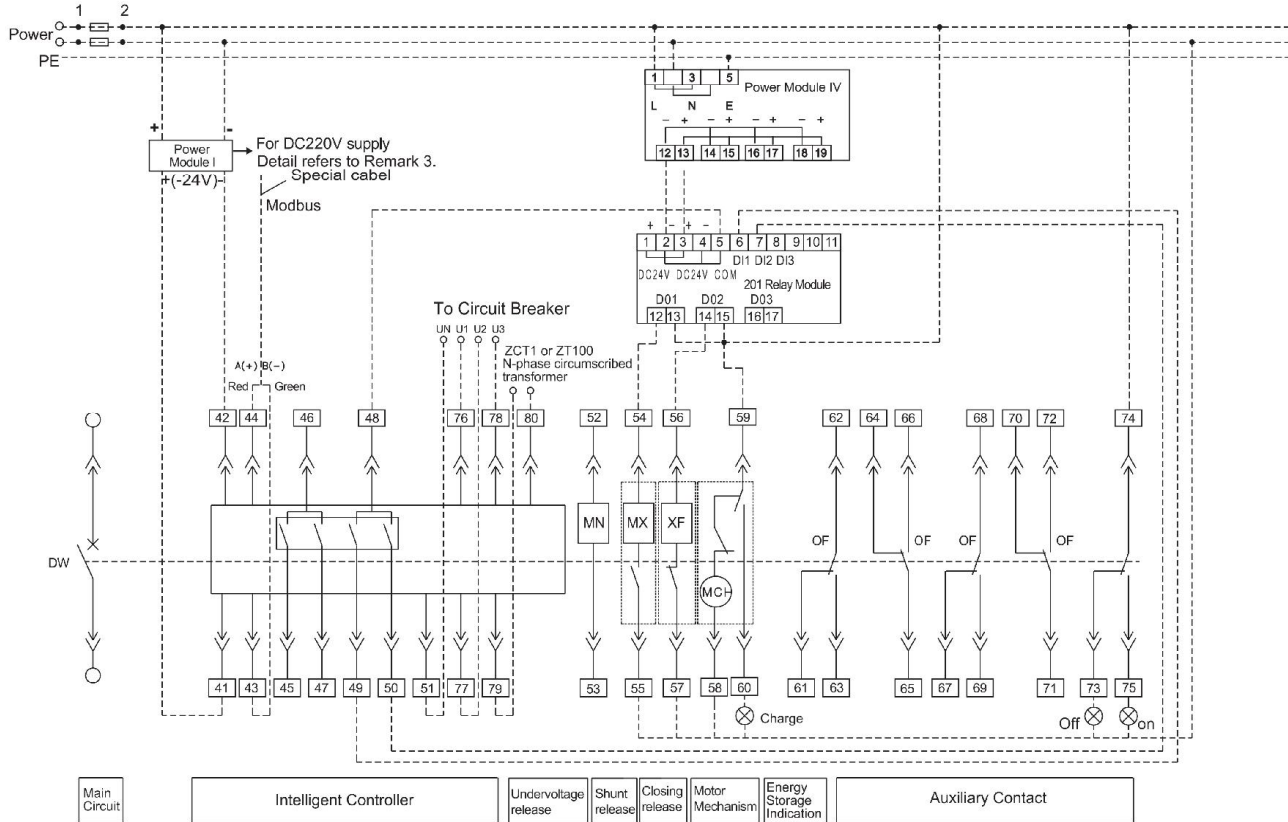
- MN— Undervoltage Release
- MX— Shunt Release
- XF— Closing Release
- OF— Auxiliary Contact
- MCH— Motor Mechanism
- SB1— Make Button
- SB2— Shunt Button

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— Undervoltage 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 power 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 drawer-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 agreement, it needs extra order.

Power module IV and 201 relay module needs extra order.

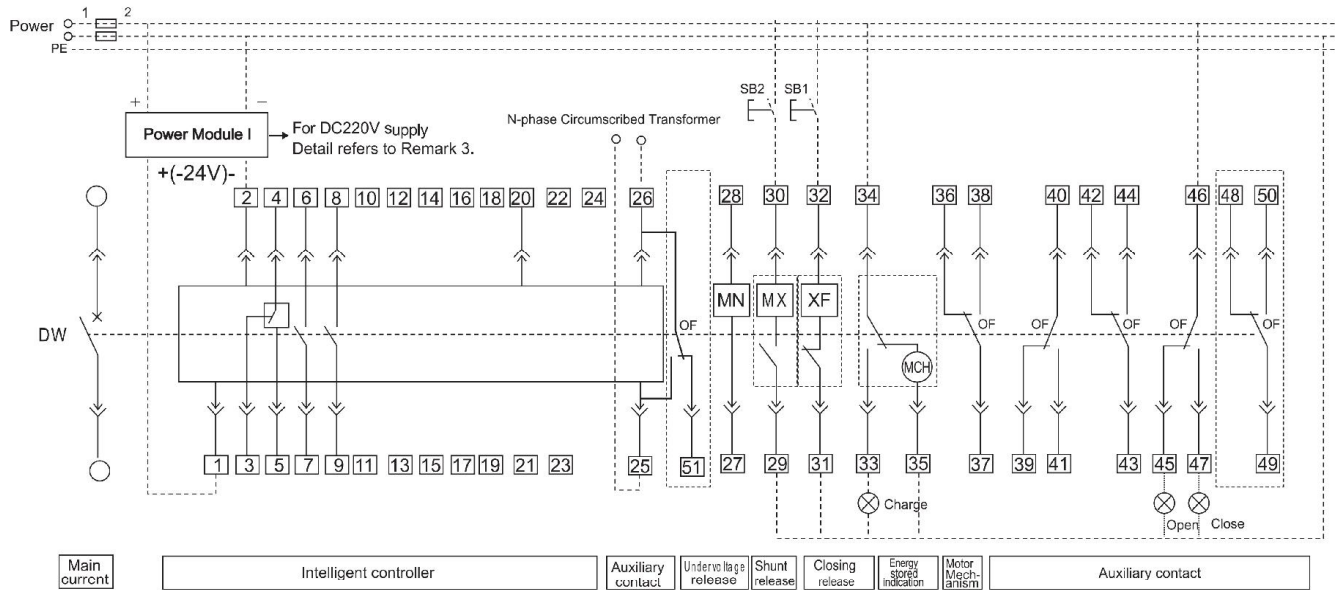
Low-voltage Distribution

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

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-trip 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: Terminal 6# ~ 7# can output normal close contacts,if the users put forward.

Remarks 5: 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 drawer-out type output terminal has been connected in the factory)

Remarks 6: The auxiliary contact is five-open and five-close, 25# and 26# are circumscribed transformer, applied for (3P+N) T type earthing failure protection.

Components:

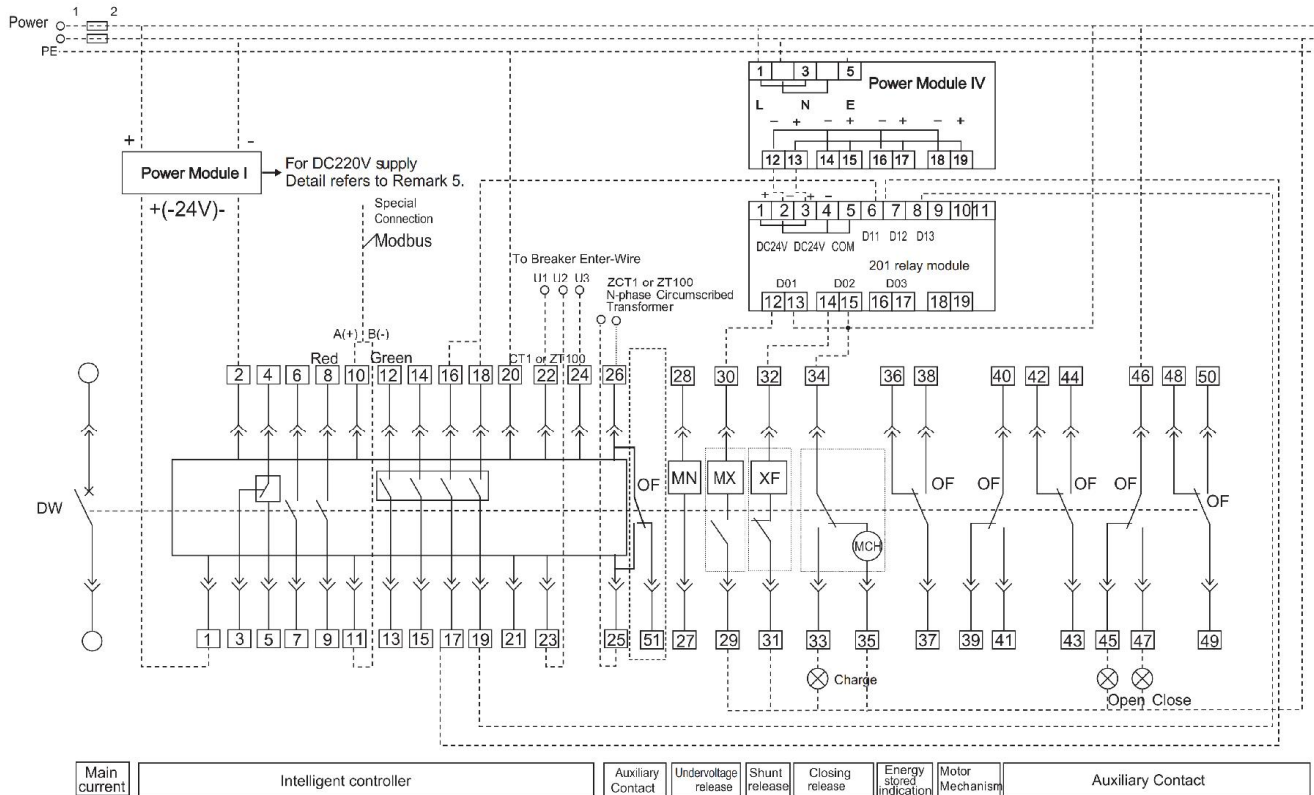
- MN— Undervoltage Release
- MX— Shunt Release
- XF— Closing Release
- OF— Auxiliary Contact
- MCH— Motor Mechanism
- SB1— Make Button
- SB2— Shunt Button

HDW6 Technical Parameter

Accessories



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



Low-voltage Distribution

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 — Undervoltage 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-trip 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: Terminal 6# ~ 7# can output normal close contacts, if the users put forward.

Remarks 5: 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 drawer-out type output terminal has been connected in the factory)

Remarks 6: 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 (should order extra)

Remarks 7: long-range control should add 201 relay module and power module IV the capacity of relay module is: AC230V, 10A; DC24V, 10A

Remarks 8: communication agreement is Modbus. If use Profibus or other agreement, it needs extra order. Power module IV and 201 relay module needs extra order.