

CDW3 Air Circuit Breaker

Delixi Electric, through a strong alliance with Schneider Electric, a Fortune 500 company, has introduced new international platform products, while also considering the most important cost-effectiveness and refinement needs of domestic customers. It has decided to combine and comprehensively improve with domestic platform products, forming the Navigator series of frame circuit breaker products;

Nowadays, on the basis of dual platforms, products have been comprehensively upgraded and upgraded. In addition to traditional circuit breaker features (drawer type, selectivity, and low maintenance), they also have higher parameters, more selective shell racks, and more complete accessories.

Advanced technology platform

As an advanced technology product platform, there are three types of frame ratings: 1000AF, 1600 AF, and 4000AF. The rated current is fully covered from 400A to 4000A, and the minimum current can be set to 160A. It is fully suitable for various applications that require high breaking capacity of circuit breakers, small volume requirements, and horizontal and vertical conversion of wiring strips. And it is fully suitable for various applications of the same type of products in the overseas and domestic markets.

Domestic innovation technology platform

As a cutting-edge technology platform dedicated to technological innovation, there are four types of shell frames available: 2000AF, 2500AF, 3200AF, and 6300AF. The rated current is fully covered from 630A to 6300A, and the minimum current can be set to 250A. The breaking performance is comprehensively improved on the original foundation, and the same platform products are widely used in China, fully suitable for various occasions with higher cost-effectiveness requirements.

天生好表现 形好 价好 质更好



rated current: 1000AF——400A、630A、800A、1000A

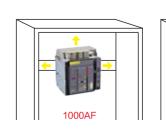
1600AF----400A、630A、800A、 1000A、1250A、1600A

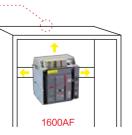
4000AF—630A、800A、1000A、1250A、1600A、2000A、

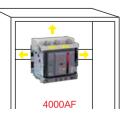
2500A、3200A、4000A

- Full coverage of current from 400A to 4000A, three frame levels, 10 rated current options available
- Wiring method: horizontal+vertical+mixed connection (1600AF, 4000AF)

The volume of 1000AF, 1600AF, and 4000AF is reduced by up to 20% compared to similar products, and the expansion space of the cabinet is more excellent











Innovative platform with stable performance









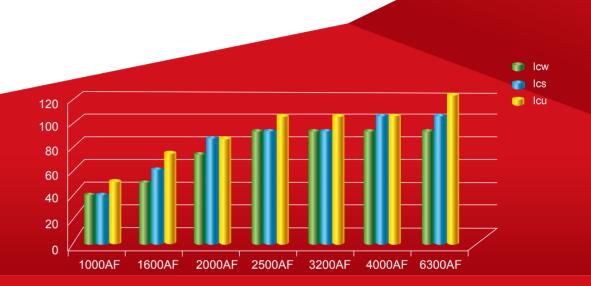
2000AF

2500AF

3200AF

6300AF





rated current: 2000AF——630A、800A、1000A、1250A、1600A、2000A

2500AF---630A、800A、1000A、1250A、1600A、2000A、2500A

3200AF---2000A、2500A、3200A

6300AF---4000A、5000A、6300A

- Full coverage of current from 630A to 6300A, four frame levels, 11 rated current options available
- Connection method: horizontal connection

Full coverage of rated voltage

Full coverage of 13 rated working voltages to meet the power supply system usage needs of various industries









005

Overview

Main Parameters

frame current	1000AF, 1600AF, 2000AF, 2500AF, 3200AF, 4000AF, 6300AF
breaking capacity level	N&H
rated current In (A)	400 ~ 6300
rated voltage AC Ue (V)	220V/230V/240V/380V/400V/415V/440V/480V/500V/525V/ 550V/660V/ 690V
poles Poles	3 & 4
Installation method	Fixed type & draw-out type
Connection	Horizontal rear connection, vertical rear connection



■ Smart Release

iTR326 type (basic type)	basic function: protection function (L, S, I & G)
iTR326A type (Standard type)	Basic protection Function Basic Measurement Functions Auxiliary Functions
iTR326H type (Advanced type)	Basic + Advanced Protection Function Various measurement Functions Auxiliary Functions Special Function Communication Function



Accessory

- Locking, interlocking and protection accessories: closing and opening button covers, mechanical interlocks, key locks, door interlocks, safety shutter locks
- · Indication accessories: ready-to-close contact, three-position signal contact, fault indication contact, auxiliary contact
- · Operating accessories: opening and closing coil, undervoltage coil, electric operating mechanism, electrical reset
- · Circuit protection accessories: N-phase external transformer, grounding transformer, leakage transformer
- Connecting accessories: horizontal, vertical, extended busbar, extended busbar





The rated current of CDW3 series universal circuit breaker is from 400A to 6300A, and the rated voltage is AC 220V/230V/240V/380V/400V/415V/ 440V/480V/500V/525V/550V/660V/690V, suitable for AC 50/60Hz, mainly used in power distribution network to distribute electric energy, protect lines and power supply equipment from overload, undervoltage, short circuit, single-phase grounding and other faults.

The circuit breaker can be widely used in power stations, factories, mines and modern high-rise buildings,

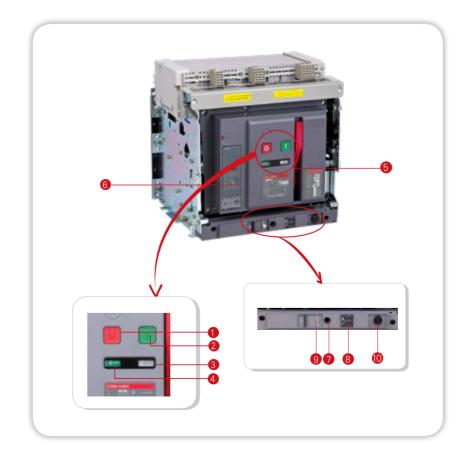
especially in power distribution systems in intelligent buildings.

compliant standard: GB/T14048.2 IEC/EN 60947-2

normal working conditions

ambient temperature	The ambient air temperature is -5°C $^+$ +40°C (certified); the average value of 24 hours does not exceed +35°C. It can also be used in extreme temperature -40°C $^+$ +70°C (iTR326, iTR326A type controller).
Altitude	4000m
electromagnetic interference	Suitable for environment A
pollution level	Pollution level 3 The installation position should be vertical and the inclination in each direction should not exceed 5°
installation level	The main circuit of the circuit breaker and the undervoltage release coil, the primary coil of the power transformer are class IV, and the auxiliary circuit and control circuit are class III
Shipping conditions	It should be moved with care, should not be placed upside down, and violent collision should be avoided as much as possible

■ 认识正面



- 1 Open button (O)
- 2 Close button (I)
- 3 Energy Storage Mechanism Status Indicator
 - Energy storage, allow closing



Energy storage, not allowed to close



• release energy

discharged

Main contact position indicator



• clos

6 Mechanical energy storage handle

6 Controllers

Rocking in (out) device

8 Connection, test and disconnection position indication

Onnection, test and disconnection position limiters

joystick storage



Product Model

■ Noumenon Code

product name	Frame current	breaking capacity	rated current	poles	Installation method
W3	16	Н	06	3	DH
	10: 1000A (04-10)	N. N type	04: 400A	3: 3 poles	DH: draw-out horizontal
	16: 1600A (04~16)	H. H type	06: 630A	4: 4 poles	FH: fixed horizontal
	20: 2000A (06~20)	1000AF/6300AF only N Type	08: 800A		DV: draw-out vertical
	25: 2500A (06~25)		10: 1000A		(only 1600AF/4000AF)
	32: 3200A (20~32)		12: 1250A		FV: fixed vertical
	40: 4000A (06~40)		16: 1600A		(only 1600AF/4000AF)
	63: 6300A (40~63)		20: 2000A		
			25: 2500A		
			32: 3200A		
			40: 4000A		
			50: 5000A		
			63: 6300A		

CDW3 default standard configuration accessories: shunt, closing, electric operation, 4 open 4 closed auxiliary contacts, door frame, phase barrier, power module, iTR326A

6300AF has no fixed type, 6300AF-6300A only has 3P draw-out type

Accessory code

	Accessory code	Accessory name
controller		
À	CDW3TUL	controller iTR326
	CDW3TUM	controller iTR326A
	CDW3TUH	controller iTR326H
remote operation		
Shunt coil	W3MXS2A	Open coil AC220V/AC230V (CDW3-1000AF/1600AF/4000AF)
	W3MXS3A	Open coil AC380V/AC400V (CDW3-1000AF/1600AF/4000AF)
	W3MXS1D	Open coil DC220V (CDW3-1000AF/1600AF/4000AF)
	W3MXS2D	Open coilDC110V (CDW3-1000AF/1600AF/4000AF)
! !	W3MXD2A	Open coil AC220V/AC230V (CDW3-2000/2500/3200/6300AF)
	W3MXD3A	Open coil AC380V/AC400V (CDW3-2000/2500/3200/6300AF)
	W3MXD1D	Open coil DC220V (CDW3-2000/2500/3200/6300AF)
close coil	W3MXD2D	Open coil DC110V (CDW3-2000/2500/3200/6300AF)
close coil	W3XFS2A	close coil AC220V/AC230V (CDW3-1000AF/1600AF/4000AF)
	W3XFS3A	close coil AC380V/AC400V (CDW3-1000AF/1600AF/4000AF)
	W3XFS1D	close coil DC220V (CDW3-1000AF/1600AF/4000AF)
	W3XFS2D	dose coil DC110V (CDW3-1000AF/1600AF/4000AF)
	W3XFD2A	close coil AC220V/AC230V (CDW3-2000/2500/3200/6300AF)
4	W3XFD3A	close coil AC380V/AC400V (CDW3-2000/2500/3200/6300AF)
	W3XFD1D	close coil DC220V (CDW3-2000/2500/3200/6300AF)
	W3XFD2D	dose coil DC110V (CDW3-2000/2500/3200/6300AF)
Undervoltage coil	W3MNS2A	Undervoltage coil AC220V/AC230V (CDW3-1000AF/1600AF/4000AF)
<u> </u>	W3MNS3A	Undervoltage coil AC380V/AC400V (CDW3-1000AF/1600AF/4000AF)
	W3MND2A	Undervoltage coil AC230V (CDW3-2000AF/2500AF/3200AF) Assisted suction
	W3MND3A	Undervoltage coil AC400V (CDW3-2000AF/2500AF/3200AF) Assisted suction
	W3MNS2A63	Undervoltage coil AC230V (CDW3-2000AF/2500AF/3200AF/6300AF) self suction
	W3MNS3A63	Undervoltage coil AC400V (CDW3-2000AF/2500AF/3200AF/6300AF) self suction
rvoltage delay coil n	W3MNRS2A	Undervoltage delay coil AC220V/AC230V (CDW3-1000AF/1600AF/4000AF)
	W3MNRS3A	Undervoltage delay coil AC380V/AC400V (CDW3-1000AF/1600AF/4000AF)
	W3MNRD2A	Undervoltage delay coil AC220V/AC230V (CDW3-2000/2500/3200/6300AF)
	W3MNRD3A	Undervoltage delay coil AC380V/AC400V (CDW3-2000/2500/3200/6300AF)



	Accessory code	Accessory name
Кеу		
ock key	W3L1S16	one lock one key CDW3-1000AF/1600AF
ock key	W3L1S40	one lock one key CDW3-4000AF
	W3L2S16	two lock one key CDW3-1000AF/1600AF
	W3L2S40	two lock one keyCDW3-4000AF
	W3L3S16	three lock two key CDW3-1000AF/1600AF
	W3L3S40	three lock one key CDW3-4000AF
	W3L1D	one lock one key CDW3-2000AF/2500AF/3200AF/6300AF
	W3L2D	two lock one key CDW3-2000AF/2500AF/3200AF/6300AF
	W3L3D	three lock two key CDW3-2000AF/2500AF/3200AF/6300AF
loor interlock	W320DLR	Draw-out type right door interlock CDW3-2000AF
	W325DLR	Draw-out type right door interlock CDW3–2500AF
	W332DLR	Draw-out type right door interlock CDW3—3200AF
	W363DLR	Draw-out type right door interlock CDW3-6300AF
%	W316DLR	Draw-out type right door interlock CDW3-1000AF/1600AF
	W340DLR	Draw-out type right door interlock CDW3-4000AF
	W320DLL	Draw-out type left door interlock CDW3–2000AF
	W325DLL	Draw-out type left door interlock CDW3–2500AF
	W332DLL	Draw-out type left door interlock CDW3-3200AF
	W316DLL	Draw-out type left door interlock CDW3-1000AF/1600AF
	W363DLL	Draw-out type left door interlock CDW3-6300AF
	W340DLL	Draw-out type left door interlock CDW3-4000AF
Operation and Protection		
loor frame	W3DCDPS16	Draw-out type door frame CDW3-1000AF/1600AF
	W3FCDPS16	Fixed door type frame CDW3-1000AF/1600AF
	W3DCDPS40	Draw-out type door frame CDW3-4000AF
	W3FCDPS40	Fixed door type frame CDW3-4000AF
	W3DCDPD20	Draw-out type door frame CDW3-2000AF
	W3FCDPD20	Fixed door type frame CDW3–2000AF
	W3DCDPD32	Draw-out type door frame CDW3-2500/3200/6300AF
	W3FCDPD32	Fixed door type frame CDW3–2500/3200AF
hase barrier	W3FDS103	Fixed type phase barrier 3PCDW3—1000AF
	W3DDS103	Draw-out type phase barrier 3PCDW3—1000AF
	W3FDS163	Fixed type phase barrier 3PCDW3—1600AF
	W3DDS163	Draw-out type phase barrier 3PCDW3—1600AF
	W3FDS403	Fixed type phase barrier 3PCDW3-4000AF(4000A无)
_	W3DDS403	Draw-out type phase barrier 3PCDW3—4000AF(4000A无)
	W3FDS104	Fixed type phase barrier 4PCDW3–1000AF
\$ } }	W3DDS104	Draw-out type phase barrier4PCDW3-1000AF
	W3FDS164	Fixed type phase barrier 4PCDW3-1600AF
	W3DDS164	Draw-out type phase barrier 4PCDW3—1600AF
	W3FDS404	Fixed type phase barrier 4PCDW3-4000AF(4000A无)
	W3DDS404	Draw-out type phase barrier 4PCDW3-4000AF(4000A无)
	W3FDD253	Draw-out type phase barrier 3PCDW3-2000/2500/3200/6300AF
	W3DDD253	Fixed type phase barrier 3PCDW3-2000/2500/3200AF
	W3FDD254	Fixed type phase barrier 4PCDW3-2000/2500/3200AF
		VE-E



	Accessory code	Accessory name
Smart Controller Accessories		
N-phase external transformer	CDW31604NCT	N-phase external transformer CDW3-1000AF/1600AF/400A
v phase external transformer	CDW3160616NCT	N-phase external transformer CDW3-1000AF/1600AF/630-1600A
	CDW3200608NCT	N-phase external transformer CDW3-2000AF/630-800A
	CDW3201020NCT	N-phase external transformer CDW3-2000AF/1000-2000A
	CDW3250620NCT	N-phase external transformer CDW3-2500AF/630-1250A
	CDW32525NCT	N-phase external transformer CDW3-2500AF/1600-2500A
المعاملات	CDW332NCT	N-phase external transformer CDW3-3200AF/2000-3200A
	CDW34012NCT	N-phase external transformer CDW3-4000AF/630-1250A
	CDW340NCT	N-phase external transformer CDW3-4000AF/1600-4000A
	CDW363NCT	N-phase external transformer CDW3-6300AF/4000-6300A
Grounding transformer	W3ZT100400A	Grounding transformer CDW3-400A (For H-type controllers only)
	W3ZT100630A	Grounding transformer CDW3-630A (For H-type controllers only)
	W3ZT100800A	Grounding transformer CDW3-800A (For H-type controllers only)
	W3ZT1001000A	Grounding transformer CDW3-1000A (For H-type controllers only)
	W3ZT1001250A	Grounding transformer CDW3-1250A (For H-type controllers only)
((()))	W3ZT1001600A	Grounding transformer CDW3–1600A (For H-type controllers only)
	W3ZT1002000A	Grounding transformer CDW3-2000A (For H-type controllers only)
	W3ZT1002500A	Grounding transformer CDW3-2500A (For H-type controllers only)
	W3ZT1003200A	Grounding transformer CDW3-3200A (For H-type controllers only)
	W3ZT1004000A	Grounding transformer CDW3-4000A (For H-type controllers only)
	W3ZT1005000A	Grounding transformer CDW3-5000A (For H-type controllers only)
	W3ZT1006300A	Grounding transformer CDW3-6300A (For H-type controllers only)
eakage transformer	W3ZCT1	leakage transformer CDW3 (For H-type controllers only)
Signal conversion module	W3TR	CDW3 Signal conversion module (H-type communication, area interlocking, four remote
oower module	W3AP	CDW3 AC power module (input AC230/400V, output DC24V)
	WDP3	CDW3 DC power module (input DC230/110V, output DC24V)
nechanical interlock		
able interlock	W3FL2S16	Fixed Type cable interlock(two sets) CDW3-1000AF/1600AF
abic interiori	W3DL2S16	draw-out Type cable interlock(two sets) CDW3-1000AF/1600AF
	W3FL2S40	Fixed Type cable interlock (two sets) CDW3-4000AF
	W3DL2S40	draw-out Type cable interlock(two sets) CDW3-4000AF
	W3FL2D	Fixed Type cable interlock(two sets) CDW3-2000AF/2500AF/3200AF
	W3DL2D	draw-out Type cable interlock(two sets) CDW3-2000AF/2500AF/3200AF/6300AF

	Accessory code	Accessory name
mechanical interlock		
Lever interlock	W3DG2S40	draw-out type Lever interlock (two sets) CDW3-4000AF
	W3DG2S16	draw-out type Lever interlock (two sets) CDW3-1600AF
	W3DG2D	draw-out type Lever interlock (two sets) CDW3-2000AF/2500AF/3200AF/6300A
	W3FG2S16	Fixed type Lever interlock (two sets) CDW3-1600AF
	W3FG2S40	Fixed type Lever interlock (two sets) CDW3-4000AF
	W3FG2D	Fixed type Lever interlock (two sets) CDW3-2000AF/2500AF/3200AF
connecting accessory		
	W3V2030608	CDW3 Vertical L Adapter 3PW3-2000/630-800A
	W3V2031016	CDW3 Vertical L Adapter 3PW3-2000/1000-1600A
	W3V20320	CDW3 Vertical L Adapter 3PW3-2000/2000A
	W3V2040608	CDW3 Vertical L Adapter 4PW3-2000/630-800A
	W3V2041016	CDW3 Vertical L Adapter 4PW3-2000/1000-1600A
	W3V20420	CDW3 Vertical L Adapter 4PW3-2000/2000A
	W310S3	CDW3 Extension terminal 3P (1000AF)
	W310S4	CDW3 Extension terminal 4P (1000AF)
	W3S3	CDW3 Extension terminal 3P (1600N)
	W3S4	CDW3 Extension terminal 4P (1600N)
1 im 1	CDW3ATSEC2	CDW3 Dual power controller (LCD type)
	CDW3ATSECM	CDW3 Bus tie type controller (LCD type)
Closing and opening button cov	ver	
	W3VBPD16	CDW3 Closing and opening button cover 1000AF/1600AF
同道	W3VBPD40	CDW3 Closing and opening button cover 4000AF
	W3VBPD20	CDW3 Closing and opening 2000AF/2500/3200/6300AF
Secondary terminal dust cover		
	W3CBD163	draw-out type secondary terminal dust cover 3P CDW3-1600AF
	W3CBD203	draw-out type secondary terminal dust cover 3P CDW3-2000AF 47 loop
	W3CBD3	draw-out type secondary terminal dust cover 3P CDW3-2500/3200/6300AF 47 loop
	W3CBD403	draw-out type secondary terminal dust cover 3P CDW3-4000AF
	W3CBD163	draw-out type secondary terminal dust cover 4P CDW3-1600AF
er	W3CBD204	draw-out type secondary terminal dust cover 4P CDW3-2000AF 47 loop
	W3CBD4	draw-out type secondary terminal dust cover 4P CDW3-2500/3200/6300AF 47 loop
	W3CBD404	draw-out type secondary terminal dust cover 4P CDW3-4000AF

Note: The standard wire for CDW3ATSEC2 is 2 m, and the standard wire for CDW3ATSECM is 4 m (applicable to three-phase four-wire products, control circuit voltage AC230V/AC380V), and there is an additional charge for each additional meter. Make three sets of mechanical interlocking requirements Communicate with the manufacturer in advance.



configuration table

	1000AF 1600AF 2000A			0045	: 2500AF 3200AF					400045				
Standard configuration	4		1600AF					00AF fixed type		00AF fixed type		00AF fixed type	draw-out	
, and the second	type	fixed type	type	ed type	type	fixed type	type	fixed type	type	fixed type	type	fixed type	type	fixed type
Circuit breaker body		-	•	•	•	_	•	•	•	•	-	•	•	
drawer seat														
iTR326A controller		-	•	•		•	•	•	•	•	•	•	_	
Shunt coil MX														
Closing coil XF		-	•	•	•	_	•	•	•	•	•	-	•	
Electric operation mechanism MCH														
auxiliary switch 4NO 4NCO F4		-	•	•		-		•	•	•	•	-	-	
fault indication contact SWT														
AC power module AP		-												
Drawer Position Locking Mechanism														
door frame CDP														
phase barrier DD/PD									•	•				
horizontal installation H								-		•		•	-	
safety barrier														
	100	0AF	1600AF			00AF	250	00AF	320	OAF		DOAF	6300	0AF
Optional	draw-out	fixed type	draw-out fixe	ed type C	draw-out	fixed type	draw-out	fixed type	draw-out type	fixed type	draw-out	fixed type	draw-out type	fixed type
iTR326 controlle r	type		type		type		туре		type		туре		type	
iTR326H controller														
Undervoltage coil MN			_	_		_	-	-	-	-				
Undervoltage delay coil MNR		_	_			_								
auxiliary switch 6NO 6NC 0F6	_	_	-	_		-	-					-	-	
auxiliary switch 8NO 8NC 0F8					_		_		-	_			_	
auxiliary switch12NO 12NC OF12														
	_	_	_	_	_	_	_	_	_	_	-		_	
Closing ready indication contact PF(1*) Three-position indicating contact PI					-		-				-			
fault indication contact SWT2		_	-	_	-		-		-		-	_	_	
				•										
Remote reset contact Res				-	_		_		_				_	
drawer padlock (1*)			-		•						-			
Security bezel lock (1*)		_	-	_	_	_	_	_	_	_	-	_	_	
Close open button lock (1*)			-	-	-	-	-	-	-	_		-	-	
Opening lock L1		-	_	•		•		•		-		•	_	
door interlock (1*)		_		_		_				_				
Mechanical interlock (1*)	•	•	•	•	•	•	•	•	•	•	-	_	_	
Secondary terminal shield (2*)					_		_		-					
DC power module DP					-	-	•	•		-	•	-	-	
N-phase external transformer NCT														
Grounding transformer ZT100	-	•	•		•	-	•	•	•	•	•	•	•	
leakage transformer ZCT1														
Signal conversion module TR			•	•		-	•	•	•	•	•	•	•	
Dual Power - Two In - Out (1*)														
Dual power supply - Two In - bus connection $(1*)$			•	•	•	_	•	•	•	•	•	_	•	
Dual power supply - three-in-one - (1*)							-						
Rear Expansion busbar - Horizontal S3/4	1 =		•											
Secondary press terminal connector														
vertical installation V											•			
counter		-						•						

note (*): When customers purchase optional accessories, please contact the manufacturer for communication note (2*): 2000AF/2500AF/3200AF/6300AFThe protective cover of the secondary terminal block is used with loop 47 of the secondary terminal block. If it needs to be used in loop 51, please contact the manufacturer. **分** NAVIGATOR



Note: 1): 6300A of 6300N only has 3P draw-out type

Poles	3, 4
Rated voltage AC Ue (V)	220V/230V/240V/380V/400V/415V/440V/480V/500V/525V/550V/660V/690V
Rated insulation voltage Ui (V)	1000
Rated impulse withstand voltage Uimp(k	V) 12
rated frequency (Hz)	50/60
suitable for isolation	
Applicable standard	GR/T14048 2 IFC 60947-2

Frame current

CCC

certification

Technical Parameters

rated current In	(A)	1000	16	00	20	000	25	00	32	.00	40	00	6300
400		•	•	•									
630		•	•	•	•	•	•	•			•	•	
800		•	•	•	•	•	•	•			•	•	
1000		•	•	•	•	•	•	•			•	•	
1250			•	•	•	•	•	•			•	•	
1600			•	•	•	•	•	•			•	•	
2000					•	•	•	•	•	•	•	•	
2500							•	•	•	•	•	•	
3200									•	•	•	•	
4000											•	•	•
5000													•
6300													•
Breaking capac	ity												
Breaking level		N	N	Н	N	Н	N	Н	N	Н	N	Н	N
Rated ultimate short-circuit	220V/230V/240V 380V/400V/415V	42	50	66	80	80	80	100	80	100	100	100	120
breaking capacity lcu (kA)	440V/480V/500V/525V 550V/660V/690V	25	36	42	50	55	65	70	65	70	65	75	85
Rated operating short-circuit	220V/230V/240V 380V/400V/415V	30	50	55	80	80	65	85	80	85	85	100	100
breaking capacity Ics (kA)	440V/480V/500V/525V 550V/660V/690V	25	36	42	50	55	65	70	65	70	65	75	75
Rated short-time withstand current	220V/230V/240V 380V/400V/415V	30	42	42	50	65	65	85	65	85	85	85	85
Icw (kA)	440V/480V/500V/525V 550V/660V/690V	20	36	36	50	55	65	70	65	70	65	75	75
Rated short-circuit making capacity Icm (kA)	220V/230V/240V 380V/400V/415V	88.2	110	145	176	176	176	220	176	220	220	220	264
icii (M)	440V/480V/500V/525V 550V/660V/690V	52.5	79	92	110	121	143	154	143	154	143	165	187
acting time													
acting time	total breaking time (ms)						€	25					
-	Closing time (ms)						<	70					
service life													
service life	Electrical life	6500	80	00	80	000	70	000	70	00	60	00	800
	cal life (without maintenance)	15000	150	000	150	000	100	000	100	000	100	000	2500
Mech	anical life (with maintenance)	30000	300	000	300	000	200	000	200	000	200	000	5000
Size													
	draw-out 3P	322 × 288 × 329	322 × 28	38 × 330	436 × 40	05 × 425	436 × 4	65 × 425	436 × 465 × 425		439 × 44	1×428.6	432 × 843 × 4
Dimensions (mm) eight* width* depth	draw-out 4P	322 × 358 × 329	322 × 35			00 × 425		80 × 425		30 × 425		6×428.6	432 × 958 × 4
	Fixed 3P	301 × 276 × 235	301 × 27			64×327		28 × 327		28 × 327	352 × 422		
	Fixed 4P	301 × 346 × 235	301 × 34	16 × 229	397 × 45	59 × 327	397 × 5	43 × 327	397 × 5	43 × 327	352 × 53	7×329.5	

■ Derating table for CDW3 at different temperatures

Frame	current / temp.	−5°C ~+40°C	+45°C	+50°C	+55°C	+60°C	+70°C
CDW3-1000N	400	400	400	400	400	400	400
	630	630	630	630	630	550	500
	800	800	800	800	800	700	630
	1000	1000	1000	1000	950	900	820
CDW3-1600N&H	400	400	400	400	400	400	400
	630	630	630	630	630	550	500
	800	800	800	800	800	700	630
	1000	1000	1000	1000	950	900	850
	1250	1250	1200	1200	1150	1050	950
	1600	1600	1550	1500	1450	1350	1150
CDW3-2000N&H	630	630	630	630	630	630	630
	800	800	800	800	800	700	650
	1000	1000	1000	1000	1000	1000	900
	1250	1250	1250	1250	1250	1150	1000
	1600	1600	1600	1500	1500	1300	1200
	2000	2000	1900	1900	1800	1700	1500
CDW3-2500N&H	630	630	630	630	630	630	630
	800	800	800	800	800	800	800
	1000	1000	1000	1000	1000	1000	1000
	1250	1250	1250	1250	1250	1250	1250
	1600	1600	1600	1600	1600	1600	1600
	2000	2000	2000	2000	2000	2000	1900
	2500	2500	2400	2300	2200	2200	2000
CDW3-3200N&H	2000	2000	2000	2000	2000	2000	1900
	2500	2500	2400	2300	2200	2200	2000
	3200	3200	3000	3000	2800	2800	2500
CDW3-4000N&H	1600	1600	1600	1600	1600	1600	1500
	2000	2000	2000	2000	2000	2000	1700
	2500	2500	2500	2500	2500	2200	2000
	3200	3200	3200	3200	3000	2500	2200
	4000	4000	4000	3600	3400	3200	3000
CDW3-6300N	4000	4000	4000	4000	4000	4000	3600
	5000	5000	5000	5000	4800	4800	4200
	6300	6300	6000	5600	5400	5200	4600

Note: The derating factor and the technical parameters in the derating table are obtained from experiments and theoretical calculations, and are only used as a general selection guide.

High altitude derating factor table

Altitude below 2000 meters will not affect the performance of the circuit breaker. Above this height, a reduction in the air insulation properties and cooling capacity must be taken into account; the correction factors given in the table below apply for installations above 2000 m above sea level:

Altitude (m)	2000	2500	3000	3500	4000	4500	5000
insulation voltage Ui (V)	1000	910	910	830	830	770	770
Impulse withstand voltage Uimp (kV)	12	10.5	10.5	9.5	9.5	9	9
working voltage Ue (V)	690	690	690	660	600	600	550
Thermal rating at 40°C ambient In (A)	1In	0.98In	0.93ln	0.91ln	0.87ln	0.84ln	0.81ln

Note: In the plateau environment, the breaking capacity needs to be derated according to the corresponding rated working voltage, generally between 75% and 50%, which is inversely proportional to the altitude.

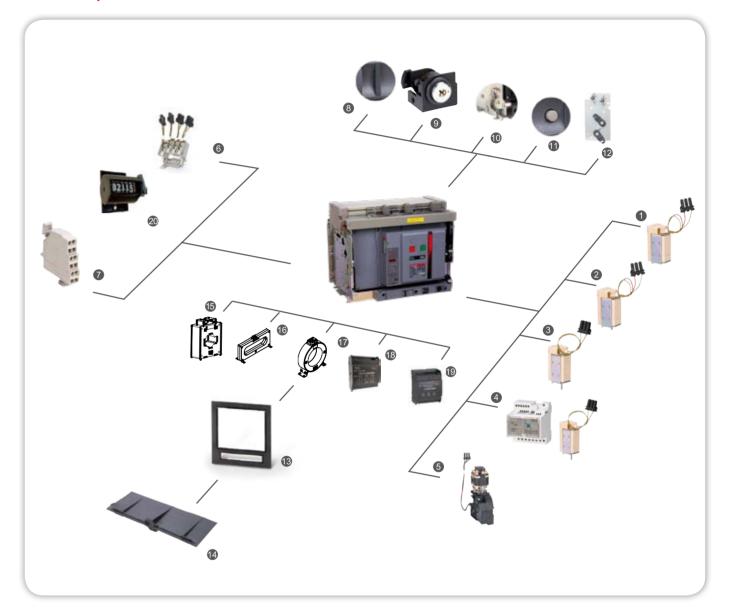
For details, please communicate with Delixi Electric Technology Department.

Refer to GB/T 20645 Special Environmental Conditions Technical Requirements for High Voltage Electrical Appliances.



Accessory \

accessory Instruction



rem	ote operation	India	cating contacts	lock	s and connections		eration and tection	Con	troller Accessories
1	shunt coil	6	Auxiliary switch OF	8	padlock	13	door frame	15 trans	N-phase external sformer
2	close coil	7	Secondary terminal	9	key lock	14	phase barrier	16	leakage transformer
3	undervoltage coil	20	counter	10	door interlock			17	Grounding transform
4	Undervoltage delay coil			11	Connection, separation, test pos	itior	locking mechanism	18	power module
5	motor operating mech	anisr	n	12	mechanical interlock			19	Signal conversion m

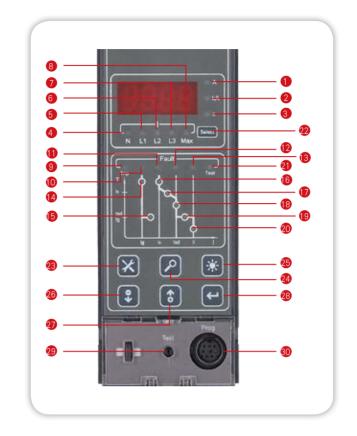


■ Key Description



- top fixed
- LED indicator
- Controller label
- 4 bottom fixed
- 6 External connection terminal
- 6 Transformer connection port
- Flux / Jogging Connections

M type (standard type)



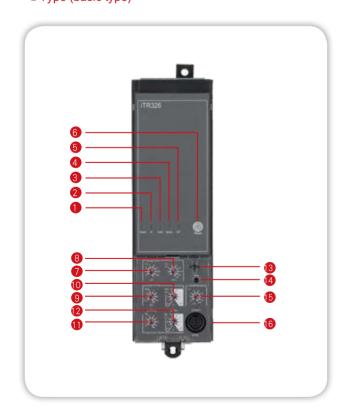
Navigation key Indicator light description description

- current unit A short delay protection
- 2 current unit kA
 - set key Instant protection
- Ground current setting value query key 3 time unit S N 4 phase current
- 6 A phase current
 - 6 Long time delay current setting value 26 −/page down 1 Long time delay time setting value 2 +/ page up

20 toggle key

- 6 B phase current C phase current
 - 18 Short delay current setting value 28 OK key
- 8 Maximu current
 - (B) Short delay time setting value TEST key Instantaneous current setting value debug port
- g trip indication Ground protection Test action state
- long delay protection

L Type (basic type)



Key instructions **Button Description Adjustment Panel**

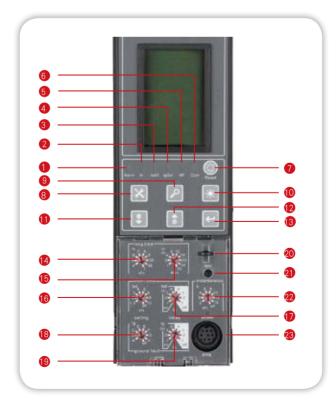
- Long time delay current setting I R
- 2 Long-time trip indication 8 Long-time trip delay t_R
- 3 Short-time or instantaneous trip indication short delay trip lsd

warning light

6 reset button

- Short delay trip delay tsd 4 Ground or leakage fault trip indication
- **Ground fault trip** lg 6 advanced protection
 - Ground-fault trip delay
 - 13 tg Padlock position
 - 4 test button
 - 15 Instantaneous trip current
 - for test port

H type (advanced type)



Key instructions

- warning light
- 2 Long-time trip indication

3 Short-time or instantaneous trip indication 16 short delay trip Isd

- 4 Ground or leakage fault trip indication
- 6 advanced protection
- 6 communication function
- 7 reset button

Navigation key description

- 8 set key
- 9 query key
- 10 Back / clear lights
- -/page down
- #/page up
- OK key

1 Short delay trip delay tsd (B) Ground fault trip Ig (9) Ground fault trip delay tg 20 padlock position 1 test button 2 Instantaneous trip current 43 test port

Button Description Adjustment

1 Long-time trip delay t_R

12 Long time delay current setting IR





Features

	iTR326	iTR326A	iTR326H
	L	M	Н
Protective function	long time protection L	long time protection L	long time protection L
	short delay protection S	short delay protection S	short delay protection S
	Instant protection	Instant protection	Instant protection I
	Ground protection G	Ground protection G	Ground protection G
	MCR protection	MCR protection	MCR protection
	HSISC protection	HSISC protection	HSISC protection
			Low Voltage Protection/Alarm
			Overvoltage Protection/Alarm
			Voltage unbalance (phase loss) protection alarm
			Phase sequence protection/alarm
			Low Frequency Protection/Alarm
			High Frequency Protection/Alarm
			Reverse Power Protection/Alarm
Measurement		current measurement	current measurement
function			voltage measurement
			power measurement
			frequency measurement
			Harmonic measurement
Accessibility	Pre-alarm	Pre-alarm	Pre-alarm
	Fault History	self-diagnosis function	self-diagnosis function
	test function	Fault History	Fault History
		test function	test function
display function		LED digital tube display	LCD liquid crystal display
special function			load monitoring
			Regional interlocking
communication function			Modbus



Protection features of intelligent controllers

- The protection characteristics of the intelligent controller include inverse time limit and definite time limit. When the fault current exceeds the set value of inverse time limit, the controller delays protection according to the definite time limit.
- Inverse time curve fits characteristic curve l²t

Overload long time delay protection feature

Overload long-time protection action threshold

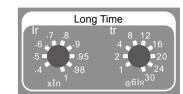
 $< 1.05 I_{R:} > 2h \text{ no action};$

 $> 1.2 I_{R:} < 1h action;$

≥ 1.2 I_R: delayed action;

I_R Current setting range: 0.4ln, 0.5ln, 0.6ln, 0.7ln, 0.8ln, 0.9ln, 0.95ln, 0.98ln,

1.0ln



Inverse time action characteristics		 21	$t = (6/N)^2 * t^R$						
Setting current multiple	action time s								
1.5 I _R	16s	32s	64s	128s	192s	256s	320s	384s	480s
2 I _R	9s	18s	36s	72s	108s	144s	180s	216s	270s
6 I _R	1s	2s	4s	8s	12s	16s	20s	24s	30s

Note: N ---- the fault current divided by the multiple of the set current $\ensuremath{\text{I/IR}}$

t ---- Fault Action Delay Time

 $t_{\mbox{\tiny R}}----$ Long delay time setting value

Action time tolerance $\pm\,10\%$

Short-circuit short-time delay protection characteristics

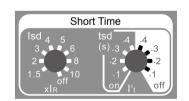
Action threshold of short-circuit short-time delay protection

< 0.9 Isd: no action;

> 1.1 lsd: action;

 \geqslant 1.1 lsd: delayed action;

Isd Current setting range 1.5 $\rm I_R$ 、2 $\rm I_R$ 、3 $\rm I_R$ 4 $\rm I_R$ 5 $\rm I_R$ 6 $\rm I_R$ 8 $\rm I_R$ 10 $\rm I_R+OFF$



current	action time							
$ sd< \leqslant 8 _R$ inver	inverse time limit	Action characteristics	I^2 t= $(8I_R)^2$ tsd					
		settling time s	0.1, 0.2, 0.3, 0.4					
		settling time s	0.1	0.2	0.3	0.4		
	Definite time, the minimum time is the return time	minimum s	0.08	0.14	0.23	0.35		
		maximum s	0.14	0.2	0.32	0.5		

注: lsd--- short delay current setting l---- fault current value l_R---- long delay setting t---- Fault Action Delay Time tsd---- Short delay inverse time setpoint Action time tolerance $\pm 20\%$





Short-circuit instantaneous protection characteristics

· Action threshold of short-circuit instantaneous protection

< 0.85 li. no action.

> 1.15 li: action;

Instantaneous action current setting $2 \ln$, $3 \ln$, $4 \ln$, $6 \ln$, $8 \ln$, $10 \ln$, $12 \ln$, $15 \ln + OFF$ Note: action time error $\leq 50 ms$.



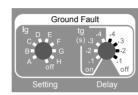
Action characteristics of ground fault protection

Ground fault protection action threshold

< 0.9 lg: no action

> 1.1 lg: action

≥ 1.1 lg: Delay action



(Current setting	А	В	С	D	Е	F	G	Н	OFF
I	n<1250	0.2ln	0.3In	0.4In	0.5ln	0.6ln	0.8In	0.9In	In	
I	n ≥ 1250	500A	600A	700A	800A	900A	1000A	1100A	1200A	

tg (s)	inverse time limit					
		$t = \frac{(I_J)^2}{I^2} \times tg$				
	Definite time, minimum time is return time	Set time (s)	0.1、0.2、0.3、	0.4		
		Set time (s)	0.1	0.2	0.3	0.4
re		minimum (s)	0.08	0.14	0.23	0.35
		maximum (s)	0.14	0.2	0.32	0.5

note $_{\rm I}$ J Ground protection setting value, when In>1250A I $_{\rm J}$ =1200A, when In<1250A I $_{\rm J}$ =In

I ---- Fault current value

T ---- Fault Action Delay Time

tg ---- Ground inverse time setting value

Inverse time limit action time allowable error $\pm 20\%$

Factory setting of intelligent controller

	long delay		short delay		instant	Ground Fault		hot memory
Trip curve	I_R	t _R	Isd	ts	li	lg	tg	
	1In	30s	6ln	0.2s	10In	G gear	0.4s	20min

■ remote operation (The picture on the left applies 1000AF/1600AF/4000AF The picture on the right applies 2000AF/2500AF/3200AF/6300AF)

Shunt coil MX

After the circuit breaker is stored energy, the shunt coil can disconnect the circuit breaker instantaneously under the specified power supply voltage, which can be operated remotely

voltage, which can be operated remotely

Rated control power supply voltage: AC220/AC230V/AC380V/AC400V/DC110V/DC220V

• Action voltage (0.7-1.1) Us

• breaking time : $50 \pm 10 ms$

Closing coil XF

 After the circuit breaker is stored energy, the closing coil can close the circuit breaker under the specified power supply voltage, which can be operated remotely

• Rated control power supply voltage : AC220/AC230V/AC380V/AC400V/DC110V/DC220V

• Action voltage 0. -1.1) Us

• closing time \pm 55 \pm 10ms

Undervoltage coil MN

The undervoltage coil is divided into two types: undervoltage instantaneous and undervoltage delay
 The circuit breaker can only be closed again after the supply voltage of the undervoltage coil has recovered to 85% of the rated

age

After the circuit breaker is closed, when the voltage of the circuit breaker drops to 70%-35% of the rated voltage, it can act to open the circuit breaker.

* Rated control power supply voltage: AC220/AC230V/AC380V/AC400V

• Operating voltage: (0.35–0.7) Ue

• Reliable closing voltage: (0.85-1.1) Ue

• Unable to close voltage $_{:}~\leqslant 0.35 \mathrm{Ue}$

• delay time: Disconnect after 0.5s, 1s, 1.5s, 3s (supported by 1000AF/1600AF/4000AF)

• Delay time: disconnect after 0.5s, 1s, 1.5s, 3s, 5s, 7.5s (supported by 2000AF/2500AF/3200AF/6300AF)

The maximum delay time is 7.5s, which can be set by dialing according to the actual situation.

motor operating mechanism MCH

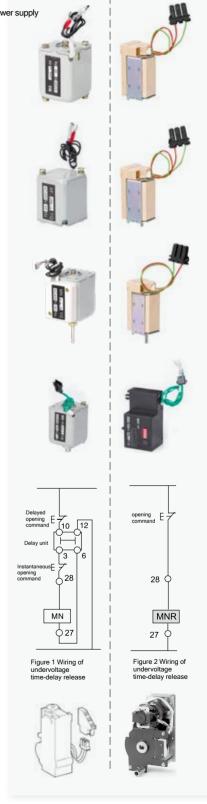
- When the circuit breaker is disconnected and there is power supply, the motor operating mechanism can
 automatically store energy for the circuit breaker, so that the circuit breaker can be opened or closed under the
 action of the shunt coil, undervoltage coil and closing coil
- When there is no power, the manual handle can be used to charge the circuit breaker
- $\bullet \ \ \textbf{Rated control power supply voltage} : \texttt{AC220/AC230V/AC380V/AC400V/DC110V/DC220V}$

• Operating voltage (0.85-1.1) Us

power consumption: 75W/180W (1000AF, 1600AF) , 85W (2000AF) , 110W (2500AF, 3200AF) , 180W (4000AF) , 150W (6300AF)

 \bullet Energy storage time $_{:}$ $<\!5\mathrm{s}$

• use category: AC15, DC13





■ Indication contacts: (the left picture is suitable for 1000AF/1600AF/4000AF, the right picture is suitable for 2000AF/2500AF/3200AF/6300AF)

auxiliary switch OF

- Used to monitor the status of the circuit breaker, such as connecting the circuit breaker position signal light, disconnecting indicator light, etc.
- Default 4 open 4 closed
- · 2000AF/2500AF/3200AF/6300AF Available with 6 open and 6 closed
- 4000AF Available with 6 openings and 6 closings, 8 openings and 8 closings, 12 openings and 12 closings
- Rated working current

1000AF/1600AF/4000AF:AC-12: AC250V6A, AC-15: AC380V1A,

DC-12: DC250V0.3A

2000AF/2500AF/3200AF/6300AF:AC-15: AC230V 1.5A, AC400V 0.9A

DC-13: DC110V 0.55A DC220V 0.27A

Closing ready indication contact PF

- Consisting of a mechanical indication contact and changeover contact, it sends a closing signal and can indicate conditions:
- 1. The circuit breaker is open
- 2. The circuit breaker is charged;
- 3. No continuous opening order

See Figure 3 (frame 1000&1600&4000) and Figure 4 (frame 2000&2500&3200&6300) for the wiring diagram, and the dotted lines are to be connected by the user

- Rated working current: AC-12 AC400V 3A, DC-12 DC220V 0.15A (1000&1600&4000 Frame)
- Rated working current: AC-12 AC250V 3A (2000&2500&3200&6300 Frame)

SWT Fault trip indication contact. SWT2 only supports (1000AF/1600AF/4000AF)

- When electrical failure occurs, a set of fault signal output is provided
- Can be fitted with a second SWT2

Res Remote reset contact: (Only support 1000AF/1600AF/4000AF)

- After an electrical fault occurs and the circuit breaker is disconnected, the device allows the circuit breaker fault lockout device to be remotely reset
- * This contact is not compatible with SWT2 fault trip contacts

Connect (CE), disconnect (CD), test (CT) three-position indication contacts

- Drawer optional accessories. 1000 frame and 1600 frame can provide 2 separate indicating contacts (CD), 1 test indicating contact (CT),
- t test indicating contact (C1),

 3 CE indication contacts; the 4000 frame can provide 3 CD, 3 CT, and 3 CE; but it needs to be ordered
- separately, and the numbers are shown in Figure 6.
- The three-position indication contact is installed on the drawer to indicate the position of the circuit breaker in the drawer
- When the circuit breaker is in the connected position, see Figure 5 for the wiring diagram (the dotted line is connected by the user); see Figure 6 for multiple groups of three-position indication signals

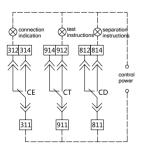


Figure 5 Wiring diagram of three-position indication signal

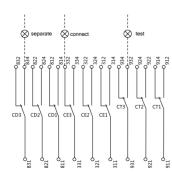
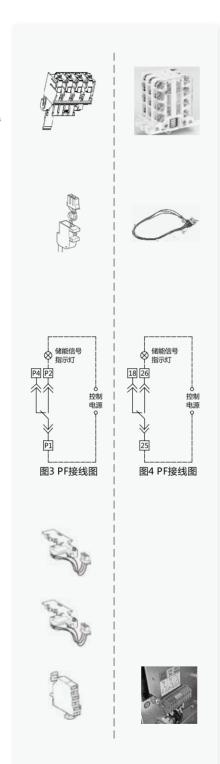


Figure 6 Multiple groups of three-position indication signals (1000AF/1600AF/4000AF only)



■ Lock: (The picture on the left is suitable for 1000AF/1600AF, the picture on the right is suitable for 2000AF/2500 AF/3200AF/4000AF/6300AF)

Cradle padlock

- If a padlock is selected, when the circuit breaker is in the "disengagement" position, pull out the padlock piece, after locking, the rocker will not be inserted
- User-supplied padlock

Opening lock

- The opening lock can lock the circuit breaker in the off position, and the circuit breaker can be closed only when the lock is opened by the key and the key is not pulled out
- There are three commonly used opening locks (two locks and three locks are used in the power distribution system with two incoming lines and one connection)
- one lock one key
- Two locks and one key
- Three locks and two keys
- Cross-shell frame can be locked

Drawer Position Locking Mechanism

 In the drawer type circuit breaker, the locking device of the circuit breaker "connection", "test" and "disconnection" positions, the three positions of the circuit breaker are displayed through the indicator window, the forward and backward handle is locked at the exact position, and the lock can be unlocked through the reset button

Door interlock

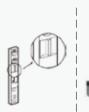
- In the drawer type circuit breaker, it is installed on the side of the circuit breaker, and the cabinet door of the power
 distribution cabinet is linked. When the circuit breaker is in the "connected" or "test" position, the cabinet door cannot be
 opened. When the circuit breaker is in the disconnected position, the cabinet door can be opened., can prevent the
 circuit breaker from slipping and other situations, causing damage
- Left door interlock or right door interlock can be provided, but after the 2000&2500&3200&6300 frame chooses the
 right door interlock, the three-position indicating contact cannot be selected

mechanical interlock

- There are two kinds of lever interlock and cable interlock
- Using lever interlocking, two or three circuit breakers can only be installed vertically, using cable interlocking, circuit breakers can be installed horizontally or vertically
- Used in the power distribution system with two incoming lines and one connection
- Two circuit breakers can be connected to make them linkage, when any one of them is closed, the linkage will make the other one open
- Interlocking between different frames can be realized
- Cross-shell frame can be locked

button lock

- Prevents misoperation of closing or opening buttons
- * Padlock Prepared by the user, the diameter of the lock rod is $\phi 5^\sim\! \phi 8 mm$

























■ Protection (left picture is suitable for 1000AF/1600AF, right picture is suitable for 2000AF/2500AF/3200AF/4000AF/6300AF)

Door frame

- Door frame mounted on switchboard door
- IP rating increased from IP20 to IP40
- Both drawer type and fixed type are applicable

phase barrier

- Insulation plate installed in the middle of circuit breaker busbar
- Can increase creepage distance and improve insulation capacity

Safety bezel: (standard configuration)

Installed in drawer-type circuit breaker drawer, when the body is in the "separation" or "test" position, the protective
contact is connected to the row, and when the body is removed from the drawer, it prevents contact with live parts

Safety bezel lock: (only support 1000AF/1600AF/4000AF)

- Used for customer inspection or maintenance. The 1000 frame and 1600 frame have lock holes on the drawer baffle, and the 4000 frame needs to be ordered separately
- The baffle lock needs to be prepared by the customer, the diameter of the lock rod is φ5~φ8mm

Secondary terminal shield

- After customer wiring, prevent foreign objects or dust from falling on the secondary terminals
- Only available with drawers

counter

- Counts once when the energy storage is completed, cannot be cleared, and displays the total number of operations
- 1600AF/4000AF is installed on the mechanism, and other frames are installed on the motor

■ Controller accessories: (the left picture is suitable for 1000AF/1600AF, the right picture is suitable for 2000AF/2500AF/3200AF/4000AF/6300AF)

N-phase external transformer

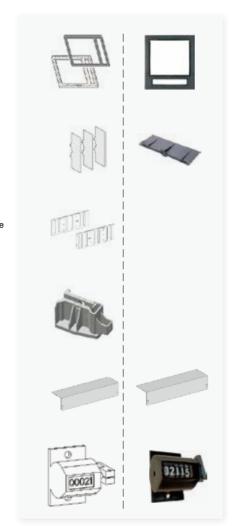
- In the 3P+N grounding method, the external transformer used to measure the neutral phase current is set on the wiring busbar by the user
- Choose one of three with grounding transformer and leakage transformer

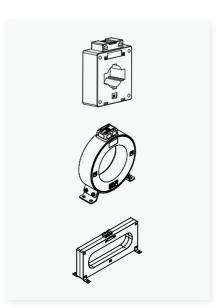
Grounding transformer

- The special external transformer used to measure the neutral phase current can protect the upper and lower ground faults of the circuit breaker at the same time
- The grounding method is ground current return type
- For iTR326H controller only
- Choose one of three with N-phase external transformer and leakage transformer

leakage transformer

- When the grounding protection is leakage type, additional special rectangular transformer
- For iTR326H controller only
- Choose one of the three options with N-phase external transformer and grounding transformer





power module

- It can provide auxiliary power for intelligent controllers in AC220V/AC230V/AC380V/AC400V/DC110V/DC220V circuits
- The input is AC220V/AC230V/AC380V/AC400V/DC110V/DC220V, the input fluctuation range is ±20%
- The output is DC24V, the output fluctuation range is ±5%
- Output 3 sets of DC24V: total power 7W
- Before each switch is powered on, check whether it is connected to the power module to avoid damage to the intelligent controller after powering on

Signal conversion module

- The output signal unit is used for communication functions, such as area interlocking, signal processing of four remote functions, or for fault alarm or indication, etc.
- For iTR326H controller only

Attachment

- Extension terminal: only applicable to 1600AF
- L-type adapter: only for 2000AF

■ Configuration accessories: (the left picture is suitable for 1000AF/1600AF, the right picture is suitable for 4000AF)

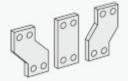
Secondary Terminal Connector

- Used for wiring the internal accessories of the circuit breaker and the external power supply
- Only for 1000AF/1600AF/4000AF
- Drawer type: 1000AF/1600AF and 4000AF are not common (as shown in the left and right pictures)
- Fixed type: common to 1000AF/1600AF and 4000AF (as shown in the picture)



CDW3 Air Circuit Breaker







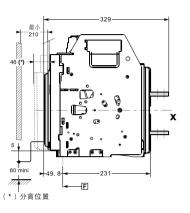


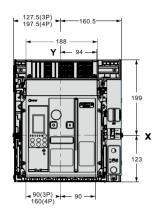


Shape and installation dimensions

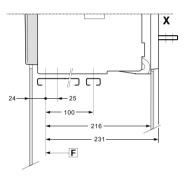
■ CDW3-1000AF Draw Type 3-pole and 4-pole

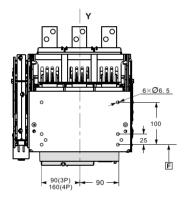
Size

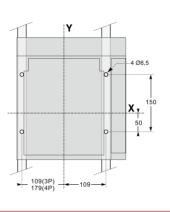




Fixed horizontally (on base plate or rail)

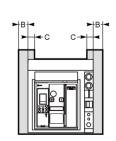


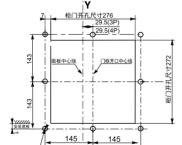




safety distance







door opening size

safe distance (mm)	draw-out type					
	А	В	С			
insulation	0	10	0			
Metal	0	10	0			
live conductor	30	60	30			

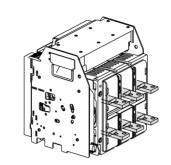
Note 1: The safety distance diagram is a schematic diagram, and the circuit breaker shall prevail in kindNote 1: The safety distance diagram is a schematic diagram, and the circuit breaker shall prevail in kind

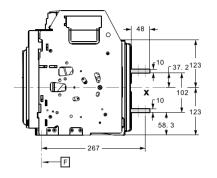
注 2: 3 极断路器 X 轴和 Y 轴是与断路器本体前<u>面罩对称的</u>

<u>8×Φ5</u>/

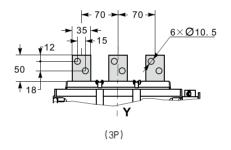
连接

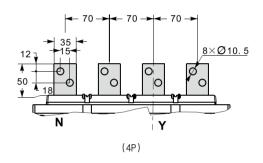
水平后连接



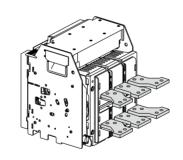


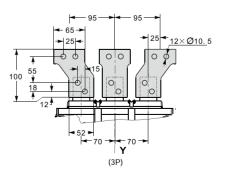
CDW3 万能式断路器

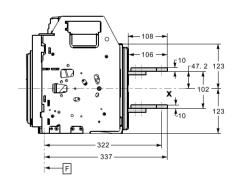


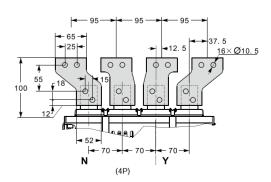


带扩展端子的后连接









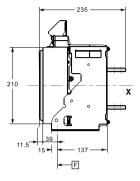


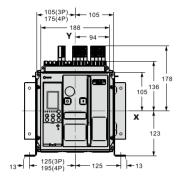


027

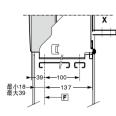
■ CDW3-1000AF Fixed 3-pole and 4-pole

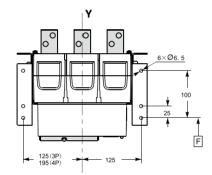
Size



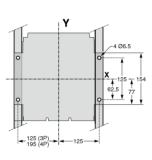


Fixed horizontally (on base plate or rail)

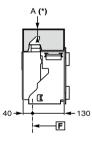


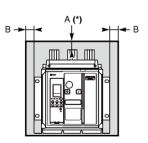


Vertical mounting details (on backplane or rack)

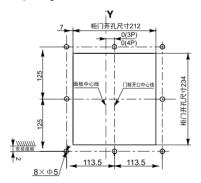


safety distance





door opening size



safe distance (mm)	fixe	ed
	А	В
insulation	0	0
Metal	0	0
live conductor	100	60

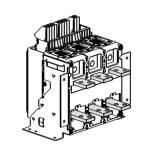
Note 1: The safety distance diagram is a schematic diagram, and the circuit breaker is subject to the actual product

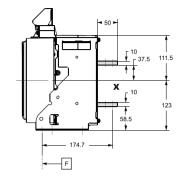
Note 2: The X-axis and Y-axis of the 3-pole circuit breaker are symmetrical to the front cover of the circuit breaker body

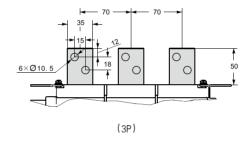
Note 3: (*) The safety distance is 50mm when removing the arc chute, and the safety distance is 20mm when removing the terminal block

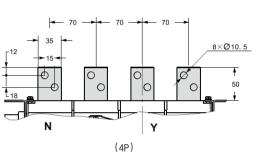
连接

水平后连接

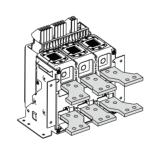


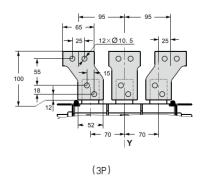


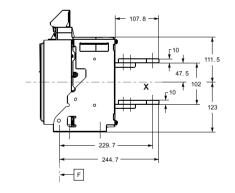


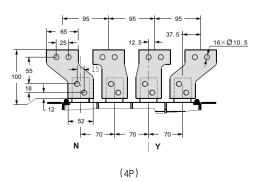


Rear connection with extension terminals





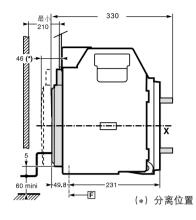


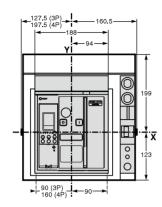




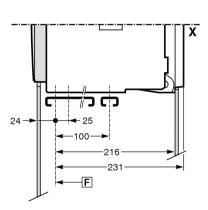


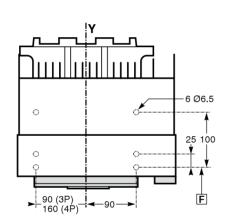
■ CDW3-1600AF Draw-out Type 3 poles and 4 poles Size



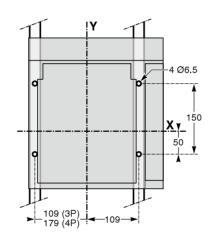


Fixed horizontally (on base plate or rail)

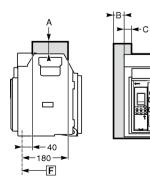


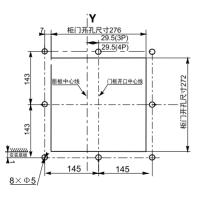


Vertical mounting details (on backplane or rack)



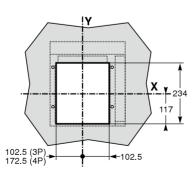
safety distance





door opening size

Rear panel opening size

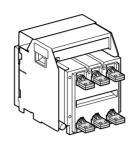


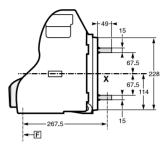
safe distance (mm)	Draw-out type					
	А	В	С			
insulation	0	10	0			
Metal	0	10	0			
live conductor	30	60	30			

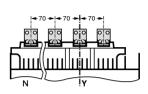
note 1:The safety distance diagram is a schematic diagram, and the actual circuit breaker shall prevail note 2:The X-axis and Y-axis of the 3-pole circuit breaker are symmetrical to the front cover of the circuit breaker body

Connect

horizontal rear connection

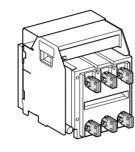


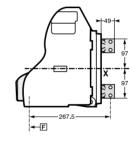


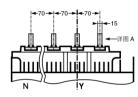




vertical rear connection

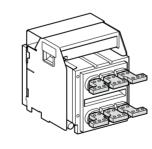


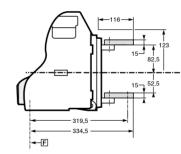


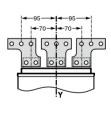


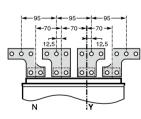


Rear connection with extension terminals



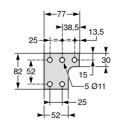


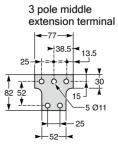




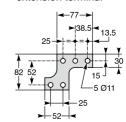
Refer to "Rear connection with extension terminals" for installation

4 pole center left or right extension terminal

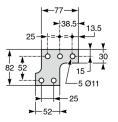




4-pole left or right extension terminal



3 pole left or right extension terminal

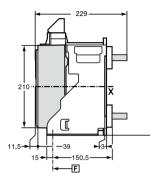


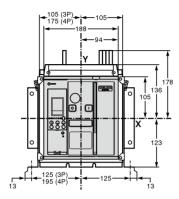
Note: The X-axis and Y-axis of the 3-pole circuit breaker are symmetrical to the front cover of the circuit breaker body



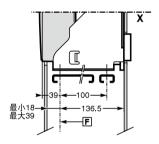
031

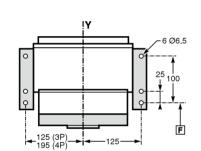
■ CDW3-1600AF Fixed 3-pole and 4-pole Size



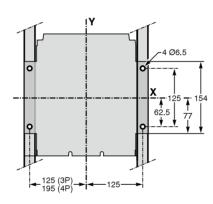


Fixed horizontally (on base plate or rail)

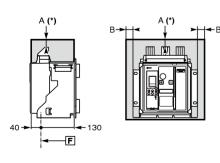




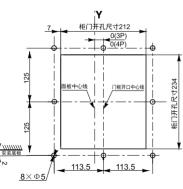
Vertical mounting details (on backplane or rack)



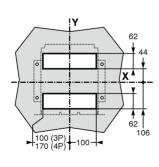
safety distance



door	opening	size	



Rear panel opening size



safe distance (mm)	fixed		
	А	В	
insulation	0	0	
Metal	0	0	
live conductor	100	60	

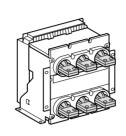
Note 1: The safety distance diagram is a schematic diagram, and the circuit breaker is subject to the actual product

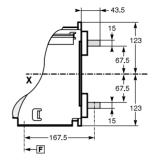
Note 2: The X-axis and Y-axis of the 3-pole circuit breaker are symmetrical to the front cover of the circuit breaker body

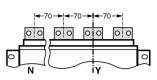
Note 3: (*) The safety distance is 50mm when removing the arc chute , and the safety distance is 20mm when removing the terminal block

Connect

horizontal rear connection

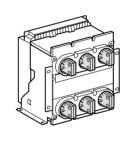


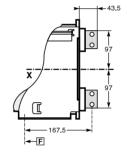


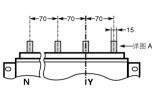


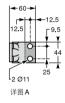


vertical rear connection

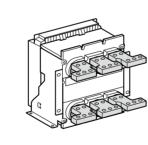


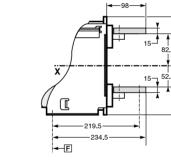


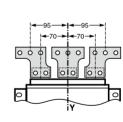


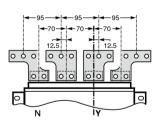


Rear connection with extension terminals



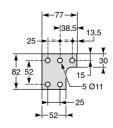




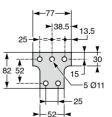


Refer to "Rear connection with extension terminals" for installation

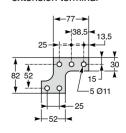
4 pole center left or right extension terminal

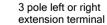


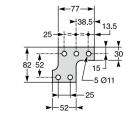




4-pole left or right extension terminal







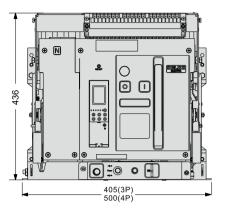
Note: The X-axis and Y-axis of the 3-pole circuit breaker are symmetrical to the front cover of the circuit breaker body

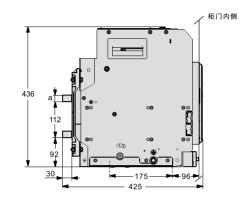


033

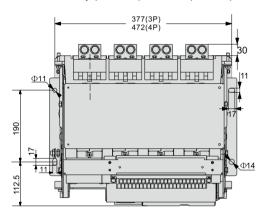
■ CDW3-2000AF draw-out type 3-pole and 4-pole

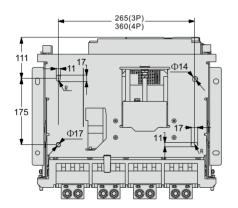
<u>Size</u>





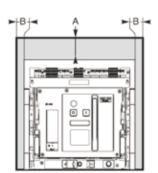
Fixed horizontally (on base plate or rail)* Mask protruding 5mm from door frame is suitable



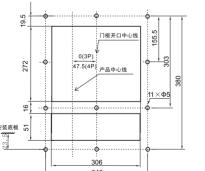


busbar size

safety distance







 2	8	 	0 🚽	8× ∳ 13
37.5	• •	0 0	0 0	
Y ::	95	95	95	

safe distance (mm)	draw-out type		
sale distance (IIIIII)	А	В	
Insulation	0	0	
Metal	0	0	
live conductor	100	60	

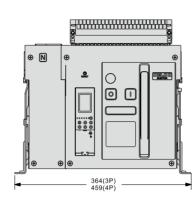
In (A)	a (mm)
630-800	10
1000-1600	15
2000	20

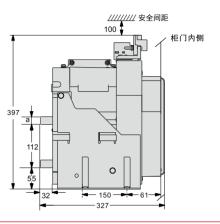
Note 1: The safety distance diagram is a schematic diagram, and the circuit breaker is subject to the actual product



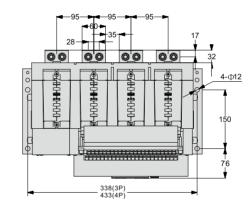
■ CDW3-2000AF Fixed type 3-pole and 4-pole

Size

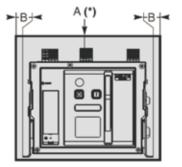




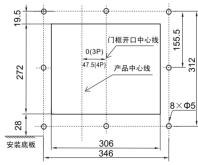
Fixed horizontally (on base plate or rail)* Mask protruding 5mm from door frame is suitable



safety distance



door opening size



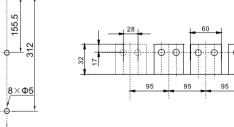
hı	ich	or o	size
nı	ISD	ar s	size

In (A)

630-800

2000

1000-1600



a (mm)

10

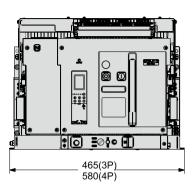
20

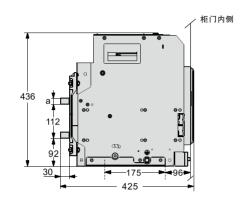
Fixed type		
А	В	
0	0	
0	0	
100	60	
	A 0 0	

Note 1: The safet	y distance diagram is	s a schematic diagram	, and the circuit brea	ker is subject to the
actual product	-	_		-

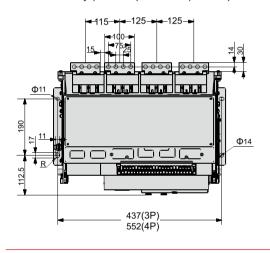
Note 2: (*) The safety distance should consider the space 110mm required when removing the arc extinguisher, and the safety distance is 20mm when removing the terminal block

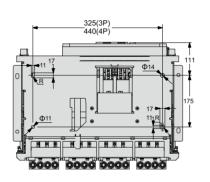
■ CDW3-2500AF draw-out type 3-pole and 4-pole Size



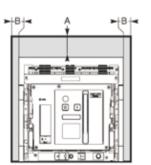


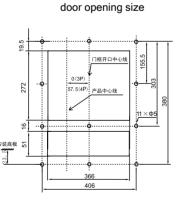
Fixed horizontally (on base plate or rail)* Mask protruding 5mm from door frame is suitable



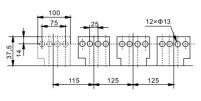


safety distance





h	h	~:-~	
DHSI	nar	SIZE	
มนอเ	vai	size	



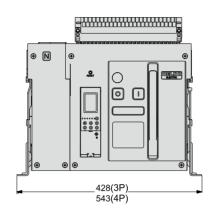
cofo distance (man)	draw-out type		
safe distance (mm)	А	В	
insulation	0	0	
Metal	0	0	
live conductor	100	60	

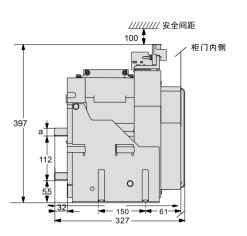
In (A) a (mm) 20 630-2500

Note 1: The safety distance diagram is a schematic diagram, and the circuit breaker is subject to the actual product

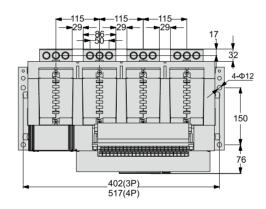


■ CDW3-2500AF Fixed 3-pole and 4-pole

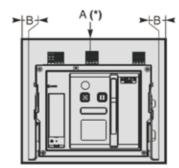




Fixed horizontally (on base plate or rail)* Mask protruding 5mm from door frame is suitable



safety distance





door opening size

19.5	•)		<u> </u>	1
272	φ		0 (3P)	产品中心	_	155.5	312
28	Φ-		()		8×Φ √ 5	<u>5</u>
安装店	板	-	40		⊸ .		

, - 5	50	 86	³ →	12×Φ12
32	-		0	
-	115	115	115	•

a (mm)

20

busbar size

In (A)

630-2500

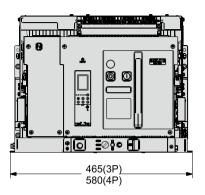
and distance ()	fixe	ed type
safe distance (mm)	А	В
insulation	0	0
Metal	0	0
live conductor	100	60

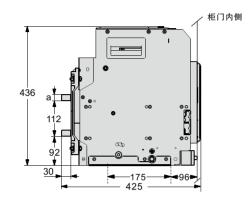
Note 1: The safety distance diagram is a schematic diagram,	and the circuit breaker is subject to the
actual product	

Note 2: (*) The safety distance should consider the space 110mm required when removing the arc extinguisher, and the safety distance is 20mm when removing the terminal block

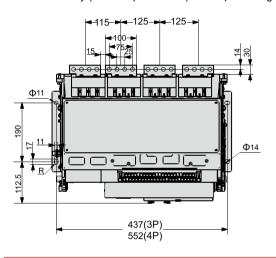


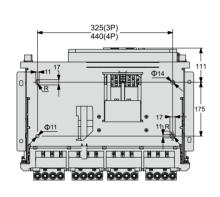
CDW3-3200AF draw out type 3 pole and 4 pole Size



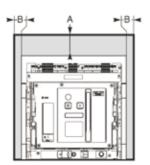


Fixed horizontally (on base plate or rail)* Mask protruding 5mm from door frame is suitable

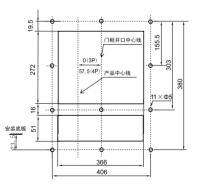




safety distance







+-	00 5 	5 -	12×Ф13	φ]
	115	125	125	_

busbar size

cofo distance / mars	Draw-out type			
safe distance (mm)	А	В		
insulation	0	0		
Metal	0	0		
live conductor	100	60		

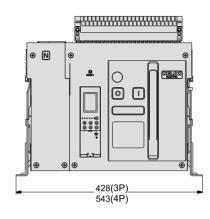
In (A)	a (mm)
2000-2500	20
3200	30

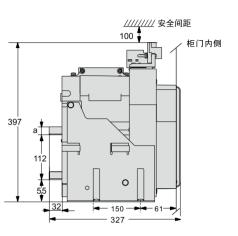
Note 1: The safety distance diagram is a schematic diagram, and the circuit breaker is subject to the actual product



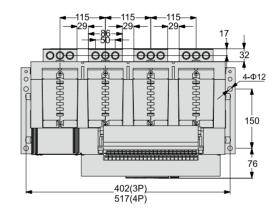
■ CDW3-3200AF Fixed Type 3 pole and 4 pole

Size

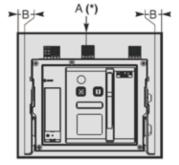




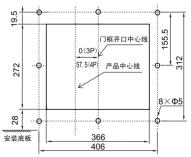
Fixed horizontally (on base plate or rail)* Mask protruding 5mm from door frame is suitable



safety distance



door opening size

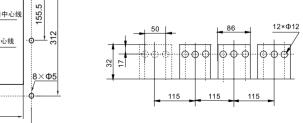


hı	ich	ar	size

In (A)

3200

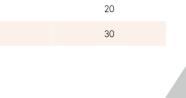
2000-2500



asfa diatanas (mm)	Fixed type			
safe distance (mm)	А	В		
nsulation	0	0		
Metal	0	0		
ive conductor	100	60		

Note 1: The safety distance diagram is a schematic diagram	, and the circuit breaker is subject to the
actual product	

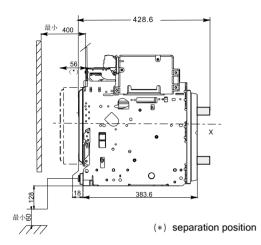
Note 2: (*) The safety distance should consider the space 110mm required when removing the arc extinguisher, and the safety distance is 20mm when removing the terminal block

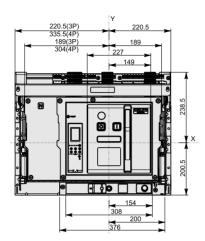


a (mm)

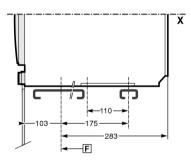
CDW3 Air circuit Breaker

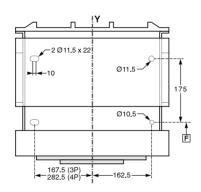
■ CDW3-4000AF draw-out type 3-pole and 4-pole Size



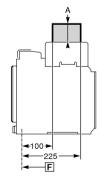


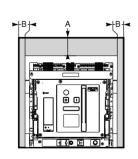
Fixed horizontally (on base plate or rail)





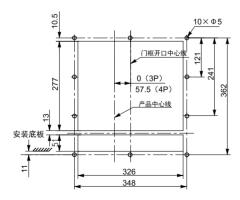
safety distance





and distance ()	draw-out type				
safe distance (mm)	А	В			
insulation	0	0			
Metal	0	0			
live conductor	100	60			

door opening size



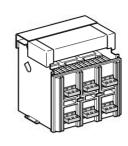
Note 1: The safety distance diagram is a schematic diagram, and the circuit breaker is subject to the actual product

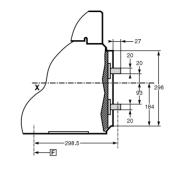
领航者 NAVIGATOR

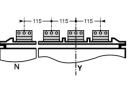
Connect

• 1600A-3200A

horizontal rear connection

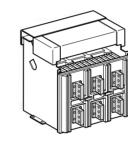


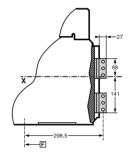


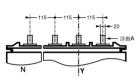




vertical rear connection



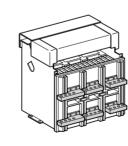


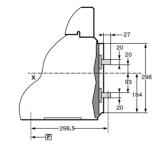


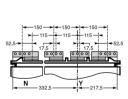


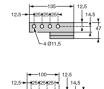
• 4000A

horizontal rear connection

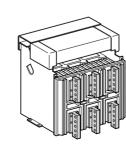


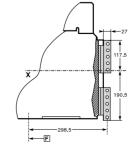


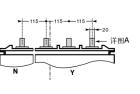


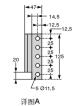


vertical rear connection







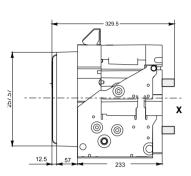


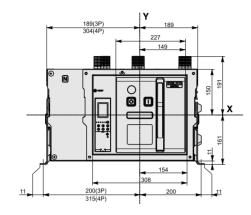
Note: The X-axis and Y-axis of the 3-pole circuit breaker are symmetrical to the front cover of the circuit breaker body

041

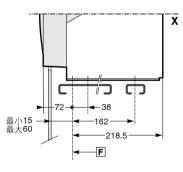
■ CDW3-4000AF Fixed Type 3 pole and 4 pole

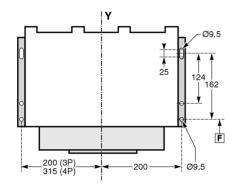
Size



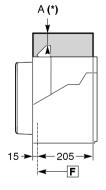


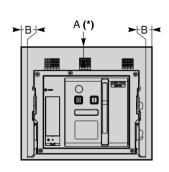
Fixed horizontally (on base plate or rail)





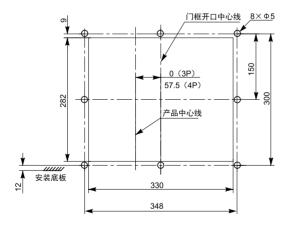
safety distance





cofo distance / mars	Fixed type			
safe distance (mm)	А	В		
insulation	0	0		
Metal	0	0		
live conductor	100	60		

door opening size



Note 1: The safety distance diagram is a schematic diagram, and the circuit breaker is subject to the actual product

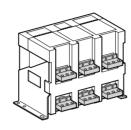
Note 2: The X-axis and Y-axis of the 3-pole circuit breaker are symmetrical to the front cover of the circuit breaker body

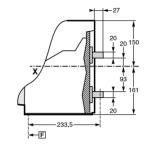
Note 3: (*) The safety distance should consider the space 110mm required when removing the arc chute, and the safety distance is 20mm when removing the terminal block

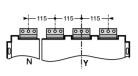
Connection

• 1600A-3200A

horizontal rear connection

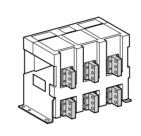


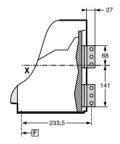


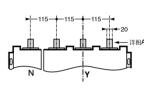




vertical rear connection



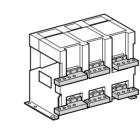


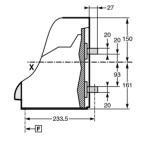


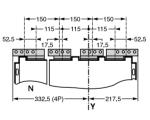


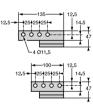
• 4000A

horizontal rear connection

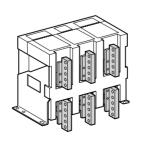


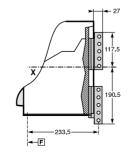


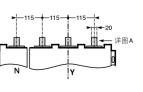


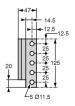


vertical rear connection







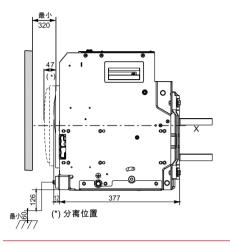


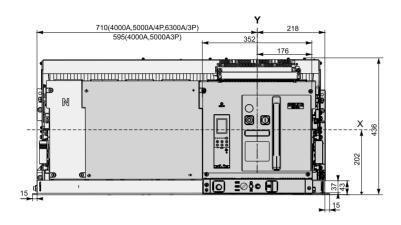
Note: The X-axis and Y-axis of the 3-pole circuit breaker are symmetrical to the front cover of the circuit breaker body



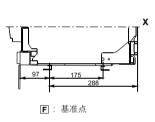
■ CDW3-6300AF draw-out type 3 pole and 4 pole

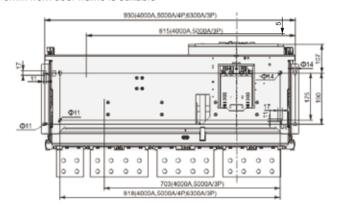
Size



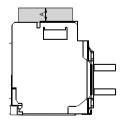


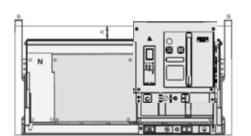
Fixed horizontally (on base plate or rail)* Mask protruding 5mm from door frame is suitable



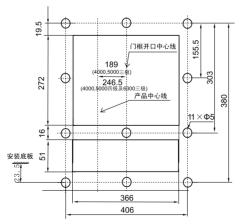


safety distance





door opening size



cofo distance (mm)	draw-out type			
safe distance (mm)	А	В		
insulation	0	0		
Metal	0	0		
live conductor	100	60		

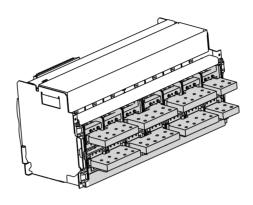
Note 1: The safety distance diagram is a schematic diagram, and the circuit breaker is subject to the actual product

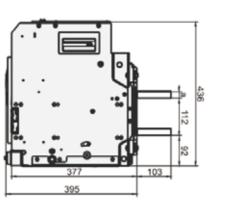
Note 2: The X-axis and Y-axis of the 3-pole circuit breaker are symmetrical to the front cover of the circuit breaker body

Connection

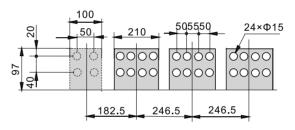
4000A—6300A

horizontal rear connection





In=4000A/5000A



²⁰	24	×Ф15		18	30 0		2	60	+ .
	0 0	00		00	00		0 0	0 0	105
4 -		_ 3	16.5		4 3	23.	5		,

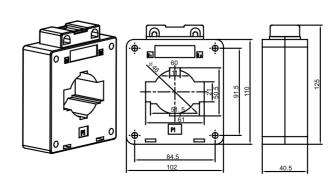
In (A)	a (mm)
4000	20
5000	30
6300	30

Note: The X-axis and Y-axis of the 3-pole circuit breaker are symmetrical to the front cover of the circuit breaker body

■ External transformer installation size

N-phase external transformer

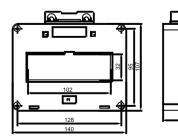
1000AF/1600AF





In=6300A



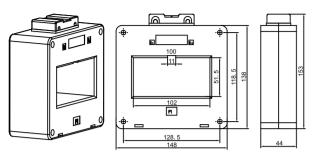




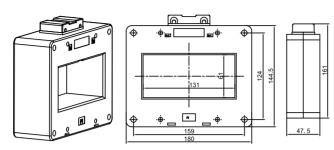




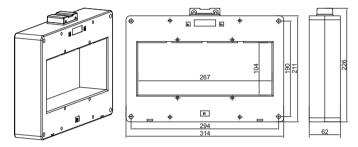




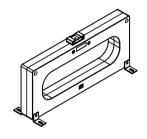
4000AF

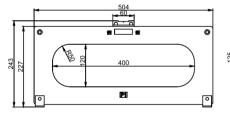


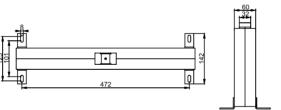
6300AF



leakage transformer

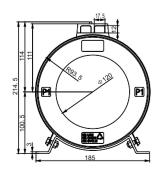


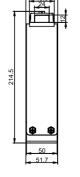


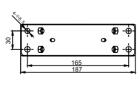


Ground current transformer



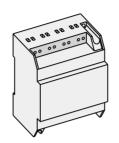


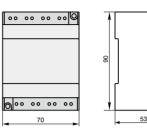


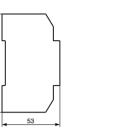


■ Power module, signal conversion module size

Power module

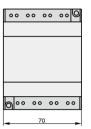


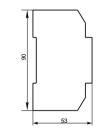




Signal conversion module





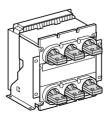


busbar size

rated current 2 In(A)	number size(mm×mm) cross-sectional area (mm t = 40°C		2) 根数 尺寸 (mm×mm) 截面枳 (mm: Ti=50 C				t) 根数 尺寸 (mm×mm) 截面枳 (mm Ti=60 C			
	number									
630	2	40 × 5	400	2	40 × 5	400	2	40 × 5	400	
800	2	50 × 5	500	2	50 × 5	500	2	50 × 5	500	
1000	2	60 × 5	600	3	50 × 5	750	3	60 × 5	900	
1250	2	80 × 5	800	2	80 × 5	800	3	60 × 5	900	
1600	2	100 × 5	1000	3	80 × 5	1200	3	80 × 5	1200	
2000	3	100 × 5	1500	3	100 × 5	1500	3	100 × 5	1500	
2500	4	100 × 5	2000	4	100 × 5	2000	4	100 × 5	2000	
3200	3	100×10	3000	3	100×10	3000	4	100 × 10	4000	
4000	5	100×10	5000	5	100×10	5000	6	100×10	6000	
5000	5	120×10	6000	6	120×10	7200				
6300	5	120 × 10	7200	7	120 × 10	8400				

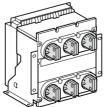
Rear connection

Horizontal





vertical



illustrate:

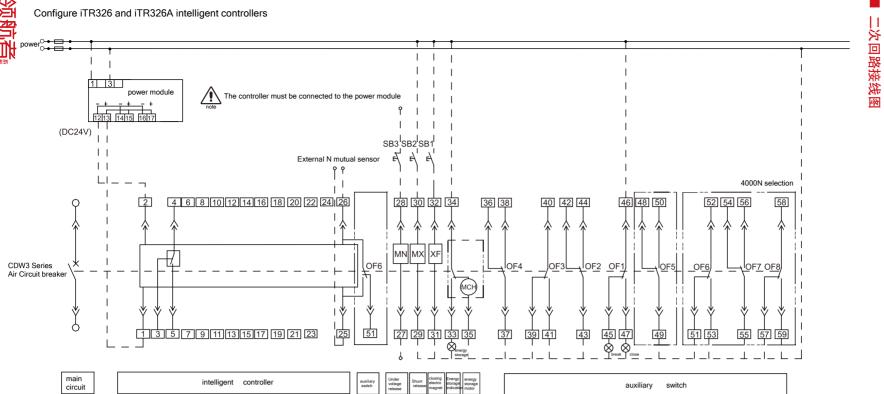
- 1. All frames provide horizontal connection, only 1600AF&4000AF provide
- 2. The horizontal and vertical connection of 1600AF/4000AF can be realized by rotating the busbar $\,$
- $3.\,2000 \text{AF}$ can realize vertical connection through optional vertical L-shaped adapter, only below 2000 A





曲

气原 屈 伱



Controller Wiring Notes

UM: input for voltage test signal

 $21\# (UN), 22\# (UA), 23\# (UB), 24\# (UC) \ are \ the \ input \ terminals \ of \ N, \ A, \ B, \ C \ phase \ voltage \ and \ A \ phase \ voltage \ are \ because \ and \ because \ are \ are$

POW: DC24V power input, connected to the dedicated power module for the controller $1\#(V^1+)$, $2\#(V^2-)$, DC24V power input terminal, $1\#(V^1+)$ is the positive pole in DC, and it is used to supply power to the controller

SWT: fault trip contact input

3# (S2), 4# (S1), 5# (S3): fault trip contact output (4# (S1) is the common terminal), contact capacity: AC400V, 5A

25#-26#: input for external transformer

Component: MN-undervoltage release

MX-Shunt release

OF1-OF8-auxiliary switch

SB1-closing button SB2-opening button

SB3-Emergency disconnect button

Note 1: MN undervoltage release 27#, 28#, wiring on the main circuit; wiring with undervoltage delay unit: a, 1000/1600/4000 frame 27# and 28# connected to the delay unit 3# and 6# of the delay unit, 10# and 12# of the delay unit are connected to the main circuit. For the wiring diagram, see Figure 1 on page 42; /28#, wiring on the main circuit, see Figure 2 on page 42 for wiring diagram

Note 3: Auxiliary switch 1000/1600 frame only provides 4a4b; 2000/2500/3200/6300 frame can provide 4a4b, 6a6b; ong them, 4a4b is the standard configuration, others need to be ordered

Note 4: Terminal 35# can be directly connected to the power supply (automatic pre-storage), or connected in set the normally open button and then connected to the power supply (manual control pre-storage)

Note 5: The controller must be connected to the power module

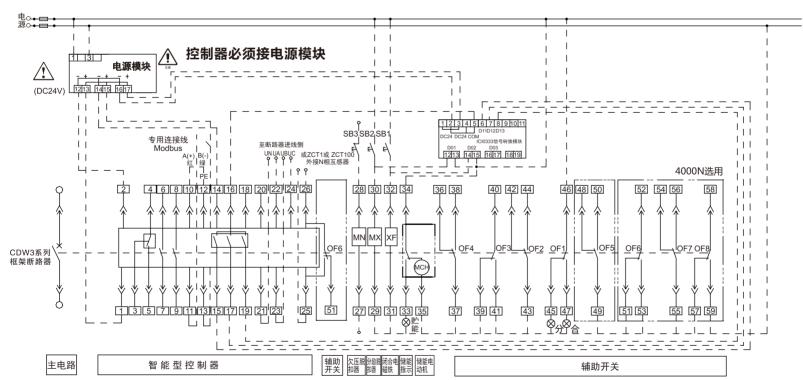
When the power supply voltage is AC220V-400V, use the iAPU334 power supply module When the power supply voltage is DC110V/220V, use the iAPU332D power module

Note 6: When the 2000/2500/3200/6300 frame is 47 circuits, the auxiliary switch is 4a4b When the 2000/2500/3200/6300 frame is 51 circuits, the auxiliary switch is 6a6b (5a5b): 25#, 26#, 51# After the normally open and normally closed contacts are formed, the transformer cannot be connected

Note 7: The dotted line in the figure is connected by the user

Intelligent controller 1# and 2# must be connected to the DC24V terminal of the controller dedicated power module

配置iTR326H型智能控制器的二次回路接线图



控制器接线注释:

UM: 电压测试信号的输入

21#(UN)、22#(UA)、23#(UB)、24#(UC)为N、A、B、C相电压的输入端

POW: DC24V电源输入,接控制器专用电源模块 1#(V1+)、2#(V2-), DC24V电源输入端,直流时1#(V1+)为正极,给控制器供电用

SWT: 故障跳闸触点输出 3#(S2)、4#(S1)、5#(S3): 故障跳闸触点输出(4#(S1)为公共端), 触点容量: AC400V, 5A

CT: 外接互感器,包括外接N相互感器或ZT100或ZCT1(三选一),其中

25#-26#: 用于外接互感器的输入25#-26#: 用于外接接地互感器ZT100的输入

25#-26#: 用于外接漏电互感器ZCT1的输入 ZSI: 区域选择性联锁

13#(Z+)、14#(Z-)为区域联锁保护的输入DC24V

16#(Z11)、15#(Z1)、17#(Z2)、19#(Z3)为3DO的输出,采用光耦输出,其中16#(Z11)为公共端

COM: 通讯输出

10#、11#分别为RS485A(485+)、RS485B(485-)通讯引出线,12#为PE线,屏蔽地线

元件: MN-欠压脱扣器 MX-分励脱扣器 XF-闭合电磁铁 MCH-电动操作机构 OF1-OF8-辅助开关 SB1-合闸按钮 SB2-分闸按钮 SB3-紧急断开按钮

- 注1: MN欠压脱扣器27#、28#,接线于主回路上;对带有欠压延时单元的接线为: a、1000/1600/4000壳 架27#和28#接延时单元的3#和6#,延时单元的10#、12#接于主回路,接线图详见42页的图1; b、2000/2500/3200/6300壳架MNR欠压脱扣器27#/28#,接线于主回路上,接线图详见42页图2
- 注2: 若MN、MX、XF、MCH的控制电源电压不同时可分别接不同电源
- 注3: 辅助开关1000/1600壳架只提供4a4b; 2000/2500/3200/6300壳架可提供4a4b、6a6b; 4000壳架 可提供4a4b、6a6b、8a8b; 其中4a4b为标准配置, 其他需用户另行购买
- 注4: 端子35#可直接接电源(自动预储能),也可串接常开按钮后接电源(手控预储能)

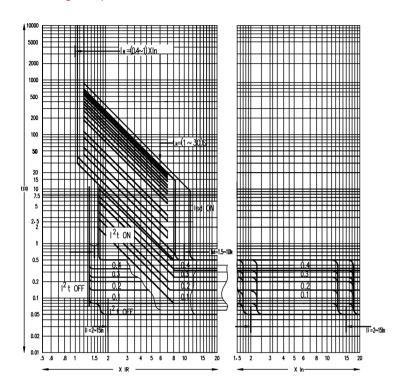
当电源电压为AC220V~400V时,采用iAPU334电源模块 当电源电压为DC110V/220V时,采用iAPU332D电源模块

注6: 当2000/2500/3200/6300壳架为47回路时,辅助开关为4a4b 当2000/2500/3200/6300壳架为51回路时,辅助开关为6a6b(5a5b): 25#、26#、

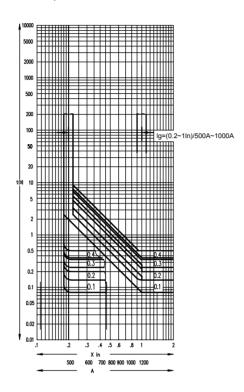
- 51#组成常开常闭触点后,不能再接外接互感器 注7: 远程控制时,需要增加iCIO333信号转换模块,信号转换模块触点容量AC240V,10A
- 注8:通讯协议为Modbus,如果用Profibus或Devicenet协议,需订购iCAU486或iCAU485模 块,模块使用DC24V供电,输入端连接到二次回路10#(485+)、11#(485-)端子,输出 端连接到相应的协议总线
- 注9: 图中虚线部分由用户自接

■ Tripping curve

Three stages of protection



Ground protection



Overview

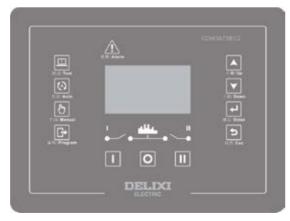
The CDW3 Frame Dual Supply Controller is a programmable , automated measurement , LCD menu

It shows that the intelligent dual power switching product integrated with digital communication can automatically realize the measurement of electrical parameters such as voltage, frequency and phase, and carry out automatic control according to the setting strategy, which can reduce human operation errors, and is an ideal product for dual power switching.

The CDW3 frame dual power controller is composed of a microprocessor as the core, which can accurately detect two-way three-phase

Voltage, to make accurate measurement of voltage anomalies (overvoltage, undervoltage, phase loss, overfrequency, underfrequency)

Judge and output the passive control switch value. It has compact structure, advanced circuit, simple wiring and high reliability, and can be widely used in electrical equipment, automatic control and two-way power supply systems in industries and departments such as electric power, post and telecommunications, petroleum, coal, metallurgy, railway, municipal administration, and intelligent buildings.



Dual Power Controller Models
CDW3ATSEC2

1600AF/2000AF/2500AF/3200AF/4000AF/6300AF

installation conditions

The two universal circuit breakers of the dual power supply system are installed horizontally in two adjacent power distribution cabinets. The maximum distance between the left panels of the two circuit breakers does not exceed 2m. Lock Perform mechanical interlock installation. Thetwo universal circuit breakers of the dual power supply system are installed up and down in a power distribution cabinet. The maximum distance between the bottom plates of the two circuit breakers does not exceed 0.9m. The cable interlock or lever can be installed between the two circuit breakers. interlock.

The dual power supply controller is installed on the panel, and is connected to the circuit breaker through a special connection cable.AC380V), when the user places an order, the user can choose an extension cable according to the actual length of the cable (one meter per length).

Environmental requirements

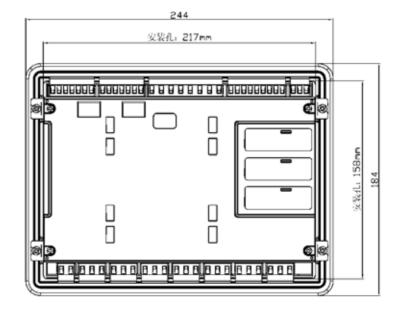
ambient temperature: $-25^{\circ}\text{C} \sim +70^{\circ}\text{C}$

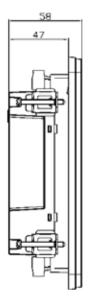
Altitude: \leq 2000 m

Precautions

- . Steel cable mechanical interlock must be ordered with CDW3 dual power controller
- The circuit breaker has 4 sets of transfer contacts, the dual power controller needs to use 1 set of transfer contacts, and the user actually only has 3 sets of transfer contacts available
- The length of the dedicated cable for the dual power supply controller is 2m, if it needs to be extended or has special requirements, it needs to be specified when ordering
- For circuit breakers with dual power controllers, it is absolutely forbidden to have a key lock, otherwise it will cause damage to the internal components of the circuit breaker
- The circuit breaker with dual power supply controller cannot be interlocked with the opening and closing state door
- . When the circuit breaker of the dual power controller is equipped with an H-type controller, the remote control circuit breaker can not be used for closing and opening functions.
- The dual power supply controller already has undervoltage and overvoltage protection functions, and the circuit breaker should not use an undervoltage release

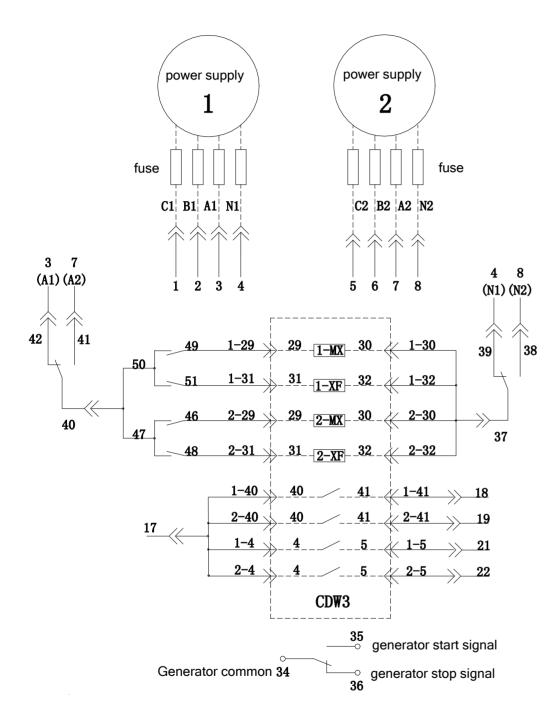
Shape and installation dimensions







■ CDW3 Wiring diagram of dual power supply controller (three-phase four-wire wiring diagram)



- Note: 1. MX--Shunt release XF--Close electromagnet
- 2. When the circuit breaker is equipped with an H-type controller, it is forbidden to remotely control the circuit breaker to close and open

- 3. It is forbidden to install undervoltage release and key lock, and it is forbidden to use
 4. Dual power controllers must be used with mechanical interlocking
 5. The dotted line is wired by the user, 4.5 The fault signal is occupied by the controller. If it needs to be connected externally, please consult the manufacturer to order



■ Selection table

\cap	TV	

Note: The

Frame current	1000AF □	1600AF		2000AF		2500AF 🗆		3200AF		4000AF		6300AF	
breaking capacity		N		Н		Note: 1000	0AF/6300AF	has no H typ	ре				
rated current	400A □	400A		630A		630A □		2000A	\ □	630A		4000A	
	630A □	630A		800A		800A □		2500A	\ □	800A		5000A	
	800A □	800A		1000A		1000A □		3200A	\ □	1000A		6300A	
	1000A □	1000A		1250A		1250A □				1250A			
		1250A		1600A	_	1600A □				1600A			
		1600A		2000A		2000A 🗆				2000A			
						2500A □				2500A			
										3200A			
1-										4000A			
pole	3P		4P										
frequency	50Hz		60Hz										
installation method	draw-out horiz			draw-out v			Fixed horizon				vertical		
Note: vertical wiring is lin	nited to 1600AF&2	000AF&4000			o add vertical v					no fixed typ			
controller	iTR326		iTR3	26A (Standard)		iTR326H		Note: 630	00AF has no	iTR326		
			Mod	lbus (default)		Profibus				Device	net	
remote operation													
Shunt coil	AC220V/A	C230V		AC3	80V/AC400V		D	C110V			DC22	0V	
Closing coil	AC220V/A	C230V		AC3	80V/AC400V		D	C110V			DC22	0V	
Electric operating mecha	anism AC220V/A	C230V		AC3	80V/AC400V		D	C110V			DC22	:0V	
Undervoltage coil	No power fa	ailure		AC2	20V/AC230V		AC380	0V/AC400\	/ _				
Provide delay seconds (appointed the provide delay seconds (appointed the provided	applicable to 1000			0.5s AF) 0.5s		1s 🗆	1.5s 1.5s		_		5s 🗆	7.5	S
ovide delay seconds (app	applicable to 1000		OAF/6300/ auxilia			1s 🗆	1.5s		_		5s 🗆	7.5	S
ovide delay seconds (app Indicating contacts	applicable to 1000 blicable to 2000AF		auxilia 4 oper	AF) 0.5s		1s 🗆	1.5s		_		5s 🗆	7.5	S
ovide delay seconds (app Indicating contacts auxiliary switch	applicable to 1000 plicable to 2000AF		auxilia 4 oper 4 oper 4 oper	ary switch n 4 closed n 4 closed n 4 closed		1s 🗆	1.5s		_		5s 🗆	7.5	S
ovide delay seconds (app Indicating contacts auxiliary switch	rapplicable to 1000 olicable to 2000AF, Frame 1000N 1600N&H		auxilia 4 oper 4 oper 4 oper	AF) 0.5s ary switch a 4 closed a 4 closed		1s 🗆	1.5s 1.5s		_		5s 🗆	7.5	S
ovide delay seconds (app Indicating contacts auxiliary switch	Frame 1000N 1600N&H 2000N&H		auxilia 4 oper 4 oper 4 oper 4 oper	ary switch n 4 closed n 4 closed n 4 closed		1s □ 1s □	1.5s 1.5s		_		5s 🗆	7.5	S
ovide delay seconds (app Indicating contacts auxiliary switch Note: The default configuration is 4 open	Frame 1000N 1600N&H 2000N&H 2500N&H		auxilia 4 oper 4 oper 4 oper 4 oper 4 oper 4 oper	AF) 0.5s ary switch a 4 closed a 4 closed a 4 closed	- 6 open 6	1s □ 1s □ 6 closed 6 closed 6 closed	1.5s 1.5s		3s				S
ovide delay seconds (app Indicating contacts auxiliary switch Note: The default configuration is 4 open	Frame 1000N 1600N&H 2500N&H 3200N&H		auxilia 4 oper 4 oper 4 oper 4 oper 4 oper 4 open 4 open 4 open	ary switch in 4 closed in 4 closed in 4 closed in 4 closed in 4 closed in 4 closed in 4 closed	- 6 open 6 - 6 open 6	1s □ 1s □ 1s □ 6 closed 6 closed 6 closed 6 closed 6 closed	1.5s 1.5s	pen 8 close	d datact the ma	□ 12 open	ı 12 close	d	
ovide delay seconds (applicating contacts) auxiliary switch Note: The default configuration is 4 open and 4 closed Three-position	Frame 1000N 1600N&H 2500N&H 3200N&H 4000N&H		auxilia 4 oper 4 oper 4 oper 4 oper 4 open 4 open 4 open 4 open	ary switch in 4 closed in 4 closed	6 open 6 6 open 6 6 open 6 6 open 6	1s □ 1s □ 1s □ 6 closed 6 closed 6 closed 6 closed 6 closed	1.5s 1.5s	pen 8 close	d deact the mammon poin	□ 12 open	ı 12 close	d	
ovide delay seconds (app Indicating contacts auxiliary switch Note: The default configuration is 4 open and 4 closed	Frame 1000N&H 2000N&H 3200N&H 4000N&H 6300N	(2500AF/320)	auxilia 4 oper 4 oper 4 oper 4 oper 4 open 4 open 4 open 4 open	AF) 0.5s ary switch 14 closed	6 open 6 6 open 6 6 open 6 6 open 6	1s □ 1s □ S closed S closed Closed Closed Closed Closed	1.5s 1.5s	pen 8 close e: Please cont iches have cor	d deact the mammon poin	□ 12 open nufacturer for ths	ı 12 close	d	
ovide delay seconds (app. Indicating contacts auxiliary switch Note: The default configuration is 4 open and 4 closed Three-position indicating contact Commonly used ac	Frame 1000N 1600N&H 2000N&H 3200N&H 4000N&H 6300N	(2500AF/3200	auxilia 4 oper 4 oper 4 oper 4 oper 4 open 4 open 4 open 4 open	AF) 0.5s any switch and 4 closed and 4 closed ready indica		1s □ 1s □ S closed S closed Closed Closed Closed Closed	1.5s 1.5s 0 0 0 0 0 Note swite coordinates	pen 8 closer e: Please cont ches have contract	d dact the mammon poir	□ 12 open	1 12 close 12 open ar	d nd 12 closed	d, a
ovide delay seconds (app. Indicating contacts auxiliary switch Note: The default configuration is 4 open and 4 closed Three-position indicating contact	Frame 1000N&H 2000N&H 3200N&H 4000N&H 6300N	2500AF/3200	auxilia 4 oper 4 oper 4 oper 4 oper 4 open 4 open 4 open 4 open	AF) 0.5s ary switch a 4 closed a 4 closed a 4 closed 4 closed 4 closed 4 closed 4 closed 4 closed ready indica	6 open 6 6 open 6 6 open 6 6 open 6	1s □ 1s □ 1s □ 6 closed 6 closed 6 closed closed closed closed	1.5s 1.5s 0 0 0 0 Note switt counces	pen 8 close e: Please cont iches have con	d datact the mammon point	□ 12 open nufacturer for ths	ı 12 close 12 open aı g□ butto	d nd 12 closed	d, a
ovide delay seconds (app. Indicating contacts auxiliary switch Note: The default configuration is 4 open and 4 closed Three-position indicating contact Commonly used ac	Frame 1000N 1600N&H 2000N&H 3200N&H 4000N&H 6300N	/2500AF/3200	auxilia 4 oper 4 oper 4 oper 4 oper 4 open 4 open 4 open 4 open	AF) 0.5s ary switch a 4 closed a 4 closed a 4 closed 4 closed 4 closed 4 closed 4 closed 4 closed ready indica		1s □ 1s □ 1s □ 6 closed 6 closed 6 closed closed closed closed	1.5s 1.5s 0 0 0 0 Note switt counces	pen 8 close e: Please cont iches have con	d datact the mammon point	12 open	ı 12 close 12 open aı g□ butto	d nd 12 closed	d, a
ovide delay seconds (app. Indicating contacts auxiliary switch Note: The default configuration is 4 open and 4 closed Three-position indicating contact Commonly used ac	Frame 1000N 1600N&H 2000N&H 2500N&H 4000N&H 6300N	key key o key	auxilia 4 oper 4 oper 4 oper 4 oper 4 open 4 open 4 open 4 open	AF) 0.5s ary switch a 4 closed a 4 closed a 4 closed 4 closed 4 closed 4 closed 4 closed 4 closed ready indica		1s □ 1s □ 1s □ 6 closed 6 closed 6 closed closed closed closed closed closed	1.5s 1.5s 8 o Note switt	pen 8 close e: Please cont iches have con	d datact the mammon point	12 open	ı 12 close 12 open aı g□ butto	d nd 12 closed	□ d, a
ovide delay seconds (app. Indicating contacts auxiliary switch Note: The default configuration is 4 open and 4 closed Three-position indicating contact Commonly used ac Opening lock:	Frame 1000N 1600N&H 2000N&H 2500N&H 4000N&H 6300N	key key ck ck ck ck ck ck ck c	auxilia 4 oper 4 oper 4 oper 4 oper 4 open 4 open 4 open Closing	AF) 0.5s ary switch a 4 closed a 4 closed 4 closed 4 closed 4 closed 4 closed 4 closed ready indica		1s	1.5s 1.5s 8 o Note Switterlock. If you deterlock. If you deterlock.	pen 8 close e: Please cont inter ess-frame m	d lact the mammon point echanical	12 open anufacturer for its	n 12 close 12 open ar g□ butto	d nd 12 closed on lock $\ \Box$	d, a
ovide delay seconds (app. Indicating contacts auxiliary switch Note: The default configuration is 4 open and 4 closed Three-position indicating contact Commonly used ac Opening lock:	Frame 1000N 1600N&H 2000N&H 2500N&H 3200N&H 4000N&H 6300N Cessories - loci one lock one two lock one three lock two spell key lo	key key ck ck ck ck ck ck ck c	auxilia 4 oper 4 oper 4 oper 4 open 4 open 4 open Closing	AF) 0.5s any switch a 4 closed a 4 closed 4 closed 4 closed 4 closed 4 closed 4 closed ready indica	G open 6 Historic contact	1s	1.5s 1.5s 8 o Note Switterlock. If you deterlock. If you deterlock.	pen 8 close e: Please cont inter ess-frame m	d lact the mammon point echanical	12 open anufacturer for its	n 12 close 12 open ar g□ butto	d nd 12 closed on lock $\ \Box$	d, a
ovide delay seconds (app. Indicating contacts auxiliary switch Note: The default configuration is 4 open and 4 closed Three-position indicating contact Commonly used act Opening lock:	Frame 1000N 1600N&H 2000N&H 2500N&H 3200N&H 4000N&H 6300N Cessories - loci one lock one two lock one three lock two spell key lo	key key ck ck ck troller acce	auxilia 4 oper 4 oper 4 oper 4 open 4 open 4 open Closing	AF) 0.5s ary switch a 4 closed a 4 closed a 4 closed 4 closed 4 closed 4 closed ready indica	G open 6 Historic contact	1s	1.5s 1.5s 1.5s 1.5s	ppen 8 closee e: Please contiches have continuer Dra	d lact the mammon poir echanica	12 open anufacturer for its	1 12 close 12 open ar g butto	d nd 12 closed on lock $\ \Box$	d, a
ovide delay seconds (app. Indicating contacts auxiliary switch Note: The default configuration is 4 open and 4 closed Three-position indicating contact Commonly used acc Opening lock: Note: 1000AF/1600AF without Commonly used acc External transformer:	Frame 1000N 1600N&H 2000N&H 2500N&H 3200N&H 4000N&H 6300N Cessories - loci one lock one two lock one three lock two spell key lo ut cable interlock (3 ur Cessories - con power modul Signal conver	key key ck ck ck ck ck ck ck c	auxilia 4 oper 4 oper 4 oper 4 open 4 open Closing	AF) 0.5s ary switch a 4 closed a 4 closed 4 closed 4 closed 4 closed 4 closed ready indica n it Note: select Gro leal	G open 6 Hitton contact Select key lock and need key loc	1s	1.5s 1.5s 8 o Note switterlock. If you cock.	pen 8 close e: Please cont ches have con unter	d lact the mammon point echanica aw-out do nation lock ternal tra	12 open anufacturer for hts all interlocking oor interlock in the product is the product is the product in the product is the product in the	g butto	d d 12 closed on lock	d, a
ovide delay seconds (app. Indicating contacts auxiliary switch Note: The default configuration is 4 open and 4 closed Three-position indicating contact Commonly used acc Opening lock: Note: 1000AF/1600AF without Commonly used acc External transformer:	Frame 1000N 1600N&H 2000N&H 2500N&H 3200N&H 4000N&H 6300N Cessories - loci one lock one two lock one three lock two spell key lo ut cable interlock (3 ur Cessories - con power modul Signal conver	key key ck ck ck ck ck ck ck c	auxilia 4 oper 4 oper 4 oper 4 open 4 open Closing	AF) 0.5s ary switch a 4 closed a 4 closed 4 closed 4 closed 4 closed 4 closed ready indica n it Note: select Gro leal	G open 6 Hitton contact Select key lock and need key loc	1s	1.5s 1.5s 8 o Note switterlock. If you cock.	pen 8 close e: Please cont ches have con unter	d lact the mammon point echanica aw-out do nation lock ternal tra	12 open anufacturer for hts all interlocking oor interlock in the product is the product is the product in the product is the product in the	g butto	d d 12 closed on lock	d, a
ovide delay seconds (app. Indicating contacts auxiliary switch Note: The default configuration is 4 open and 4 closed Three-position indicating contact Commonly used acc Opening lock: Note: 1000AF/1600AF without Commonly used acc External transformer:	Frame 1000N 1600N&H 2000N&H 2500N&H 3200N&H 4000N&H 6300N Cessories - loci one lock one two lock one three lock two spell key lo at cable interlock (3 ur cessories - con power modul Signal conver	key key ck do not be a consisted and lever in troller accesses external transfer.	auxilia 4 oper 4 oper 4 oper 4 open 4 open Closing	AF) 0.5s any switch a 4 closed a 4 closed 4 closed 4 closed 4 closed 4 closed 4 closed Gready indica nits) Note: select Gro leal only applicate	G open 6 Hitton contact Select key lock and need key loc	1s	1.5s 1.5s 8 o Note switterlock. If you cock.	pen 8 close e: Please cont ches have con unter	d lact the mammon point echanica aw-out do nation lock ternal tra	12 open anufacturer for hts all interlocking oor interlock in the product is the product is the product in the product is the product in the	g butto	d d 12 closed on lock	d, a
ovide delay seconds (app. Indicating contacts auxiliary switch Note: The default configuration is 4 open and 4 closed Three-position indicating contact Commonly used acc Opening lock: Note: 1000AF/1600AF without Commonly used acc External transformer: ower module is a standard acc Common accessorie	Frame 1000N 1600N&H 2000N&H 2000N&H 3200N&H 4000N&H 6300N Cessories - loci one lock one two lock one three lock two spell key lo ut cable interlock (3 ur cessories - con power modul Signal conver	key key ck do not be a see external trainant connections.	auxilia 4 oper 4 oper 4 oper 4 open 4 open Closing	AF) 0.5s any switch a 4 closed a 4 closed 4 closed 4 closed 4 closed 4 closed Ground Interpretate the selection of the selec	G open 6 Historical nechanical n	1s	1.5s 1.5s 1.5s 1.5s	pen 8 close e: Please cont ches have con unter	d lact the mammon point echanica aw-out do lack ternal tra	12 open anufacturer for hts all interlocking oor interlock in the product is the product is the product in the product is the product in the	g butto	d d 12 closed on lock	e pi
ovide delay seconds (app. Indicating contacts auxiliary switch Note: The default configuration is 4 open and 4 closed Three-position indicating contact Commonly used acc Opening lock: Note: 1000AF/1600AF without Commonly used acc External transformer:	Frame 1000N 1600N&H 2000N&H 2000N&H 3200N&H 4000N&H 6300N Cessories - loci one lock one two lock one three lock two spell key lo ut cable interlock (3 ur cessories - con power modul Signal conver	key key ck do not be a see external trainant connections.	auxilia 4 oper 4 oper 4 oper 4 open 4 open Closing	AF) 0.5s any switch a 4 closed a 4 closed 4 closed 4 closed 4 closed 4 closed Ground Interpretate the selection of the selec	G open 6 Historical nechanical n	1s	1.5s 1.5s 1.5s 1.5s 1.5s	pen 8 closee e: Please cont ches have con inter Dra choose combin N-phase ext	d lact the mammon point echanical aw-out do lack ternal traint and security	12 open anufacturer for ints Il interlocking oor interlock Interlocking oor interlocking oor interlocking oor interlock Interlocking oor interlocki	g butto	d d 12 closed on lock ther with the	e pr
ovide delay seconds (app. Indicating contacts auxiliary switch Note: The default configuration is 4 open and 4 closed Three-position indicating contact Commonly used acc Opening lock: Note: 1000AF/1600AF without Commonly used acc External transformer: ower module is a standard acc Common accessorice e barriers (standard) □ (400	Frame 1000N 1600N&H 2000N&H 2000N&H 3200N&H 4000N&H 6300N Cessories - loci one lock one two lock one three lock two spell key lo ut cable interlock (3 ur cessories - con power modul Signal conver	key key ck ck ck ck ck ck ck c	auxilia 4 oper 4 oper 4 oper 4 open 4 open Closing	AF) 0.5s any switch a 4 closed a 4 closed 4 closed 4 closed 4 closed 4 closed Ground Interpretate the selection of the selec	G open 6 Hitton contact Select key lock and need key lock and nee	1s	1.5s 1.5s 1.5s 1.5s 1.5s	pen 8 closee e: Please cont ches have con inter Dra choose combin N-phase ext	d lact the mammon point echanical aw-out do lack ternal traint and security	12 open anufacturer for ints Il interlocking oor interlock Interlocking oor interlocking oor interlock Interlocking oor interlocking oor interlocking oor interlock Interlocking oor	g butto	d d 12 closed on lock ther with the	e pi