

Product General Introduction

CDQ0s Series PC Level Automatic Transfer Switch



General Introduction

Main Parameter

CDQ0s series PC-level automatic switching switchgear is suitable for three-phase four-wire power supply and distribution system and single-phase power supply and distribution system with AC 50Hz and rated working current up to 250A.

- A full series of two in one out (upper and lower out), convenient wiring, save cost;
- The front side of the handle is centered, and the operation is more convenient;
- More compact volume, save space;
- Patented arc extinguishing mechanism, long life, more reliable;
- The main circuit impedance is small, the operation energy consumption is low;

Applied Standard

- GB/T 14048.1 General
- IEC 60947-1 General
- GB/T 14048.11 Multifunctional electrical switch electrical
- IEC 60947-6 Multifunctional electrical switch electrical

Normal operation and installation conditions

- The elevation of the normal installation site does not exceed 2000m
- When the maximum temperature is +40 °C, the relative humidity of the air does not exceed 50 %, and a higher relative humidity can be allowed at a lower temperature, such as 90% at +20 °C, and special measures should be taken for condensation occasionally caused by temperature changes.
- In a medium without explosion risk, and there is no gas and dust in the medium sufficient to corrode metal and destroy insulation
- Pollution level 3
- Where there is no rain or snow
- There was no apparent wavering

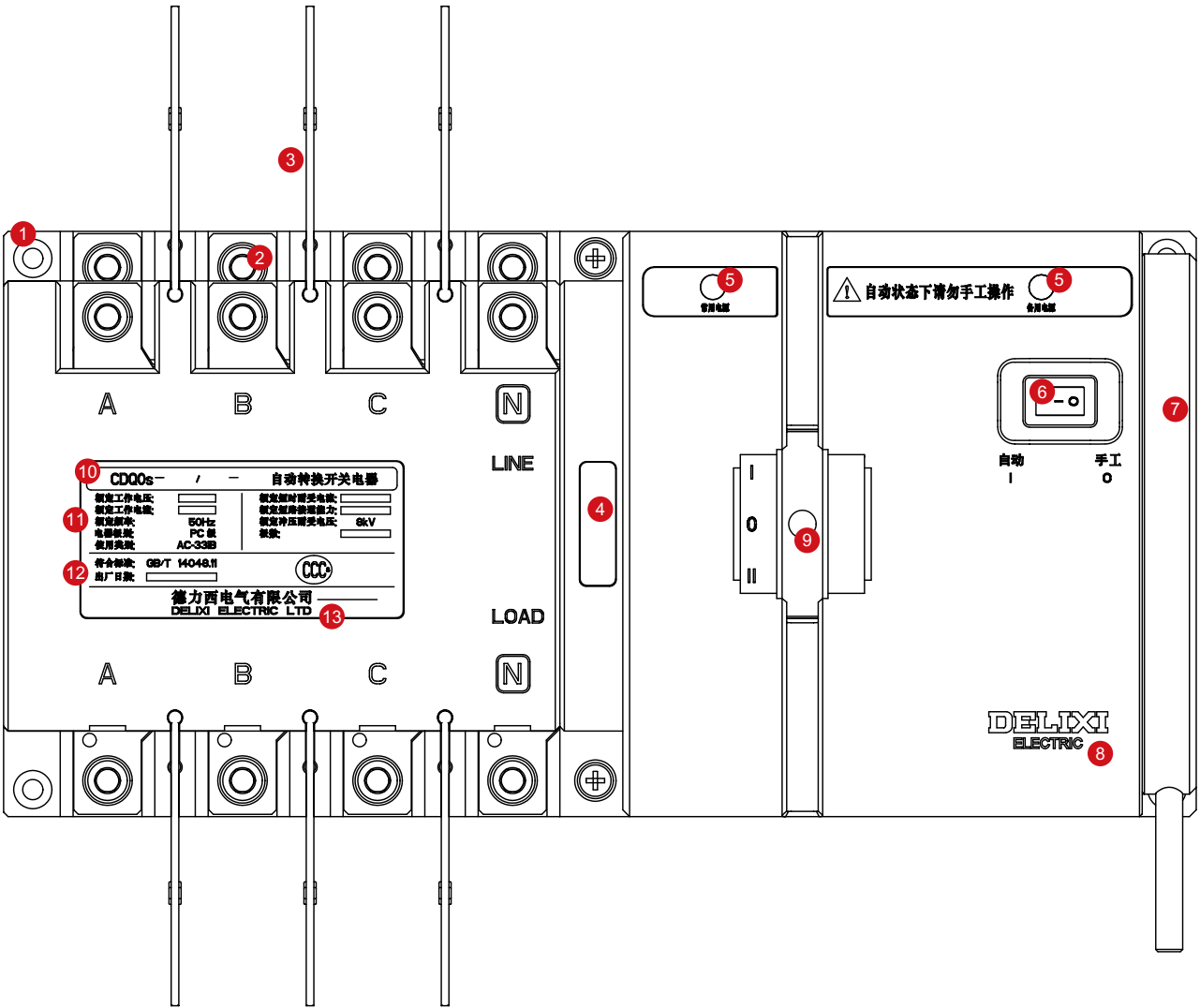
Normal storage and transport conditions

- Storage temperature: -25°C~+55°C, within a short time (24h) up to +70°C
- Relative humidity: ≤95%
- The product should be handled gently during transportation, not upside down, to avoid strong collision

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Switch Structure Explanation



1	Mounting hole	5	Pilot lamp	9	Operating handle hole	13	Company name
2	terminal	6	Manual/automatic buttons	10	Product model		
3	Interphase partition	7	Operating handle	11	Product parameter		
4	Convert position indication window	8	Company trademark	12	Certification & Compliance with standards		

- Control voltage: The switch control voltage class is 230V
- Position indicator: indicates the position of the switch working state (I , O, II)
- The main body of the switch: the front part is circuit, which is connected to the "common power supply"; The rear part is circuit II and connects to the backup power supply.

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Production Selection					
Product name	Frame grade	Pole	Rated working current	External indicator terminal	Fire dual function
CDQ0s	80	/ 3	63A	☐	☐
	80: 80AF 125: 125AF 250: 250AF	2: 2 极 3: 3 极 4: 4 极	16A ... 250A	Default: No external indicator terminal D: With an external indicator terminal	Default: The fire control dual-function is disabled X: with fire dual function

Core Material

Frame Level	Rated Working Current (A)	2 P	3 P	4 P
		Order No	Order No	Order No
80	16	CDQ0S0800162	CDQ0S0800163	CDQ0S0800164
	20	CDQ0S0800202	CDQ0S0800203	CDQ0S0800204
	25	CDQ0S0800252	CDQ0S0800253	CDQ0S0800254
	32	CDQ0S0800322	CDQ0S0800323	CDQ0S0800324
	40	CDQ0S0800402	CDQ0S0800403	CDQ0S0800404
	50	CDQ0S0800502	CDQ0S0800503	CDQ0S0800504
	63	CDQ0S0800632	CDQ0S0800633	CDQ0S0800634
	80	CDQ0S0800802	CDQ0S0800803	CDQ0S0800804
125	40	CDQ0S1250402	CDQ0S1250403	CDQ0S1250404
	50	CDQ0S1250502	CDQ0S1250503	CDQ0S1250504
	63	CDQ0S1250632	CDQ0S1250633	CDQ0S1250634
	80	CDQ0S1250802	CDQ0S1250803	CDQ0S1250804
	100	CDQ0S1251002	CDQ0S1251003	CDQ0S1251004
	125	CDQ0S1251252	CDQ0S1251253	CDQ0S1251254
250	80	CDQ0S2500802	CDQ0S2500803	CDQ0S2500804
	100	CDQ0S2501002	CDQ0S2501003	CDQ0S2501004
	125	CDQ0S2501252	CDQ0S2501253	CDQ0S2501254
	140	CDQ0S2501402	CDQ0S2501403	CDQ0S2501404
	160	CDQ0S2501602	CDQ0S2501603	CDQ0S2501604
	200	CDQ0S2502002	CDQ0S2502003	CDQ0S2502004
	250	CDQ0S2502502	CDQ0S2502503	CDQ0S2502504

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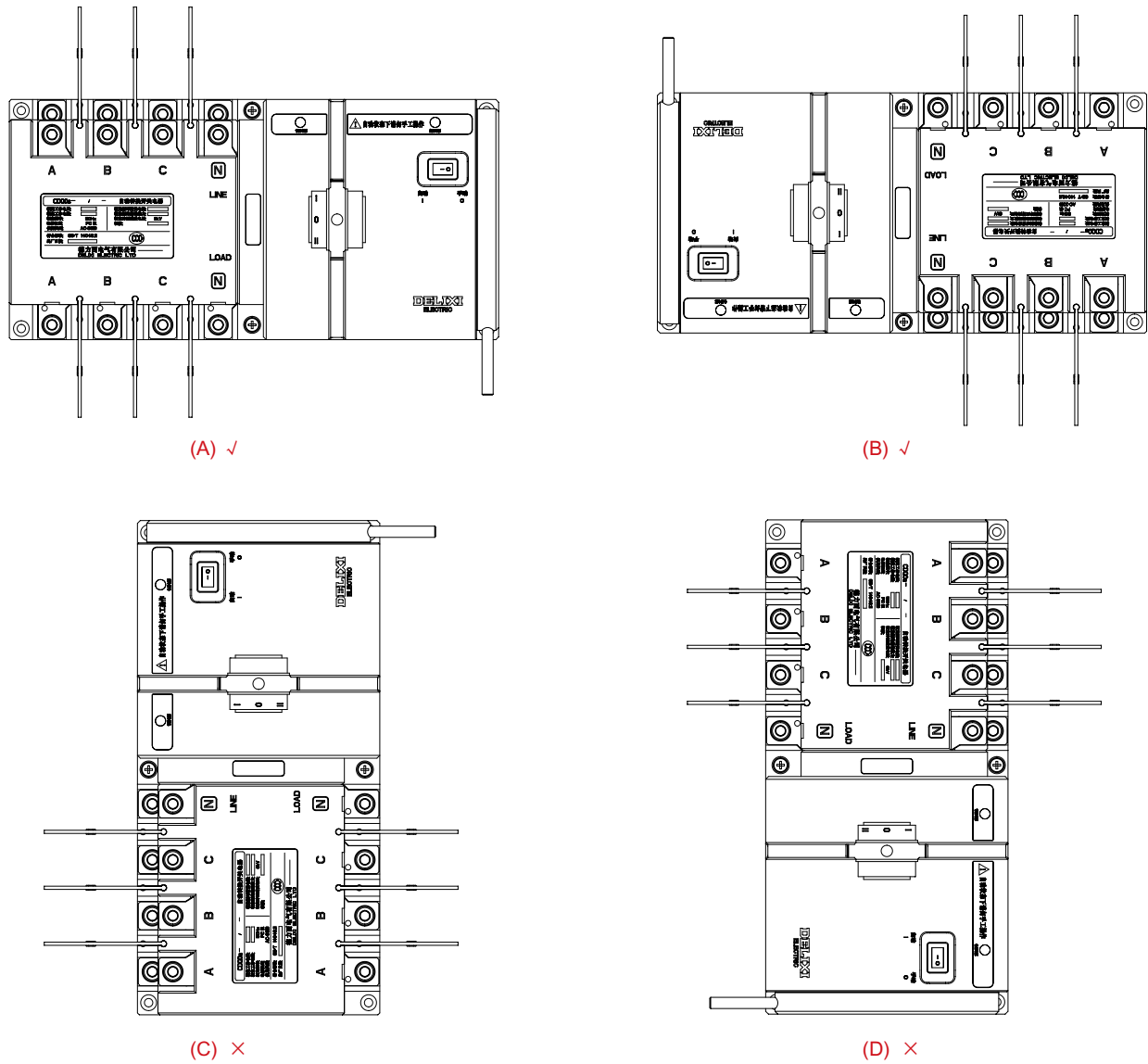
Technical Parameter			
Model	CDQ0s-80	CDQ0s-125	CDQ0s-250
Pole	2/3/4		
Standard	GB/T 14048.11		
Appliance Level	PC Level		
Using Type	AC-33B(16/20/25/32/40) AC-33iB(16/20/25/32/40/50/63/80)	AC-33B(40/50/63) AC-33iB(40/50/63/80/100/125)	AC-33B(80/100/125/140) AC-33iB(80/100/125/140/160/200/250)
Structure Type	Unitary		
Electrical Character	CDQ0s-80	CDQ0s-125	CDQ0s-250
Rated insulation voltage Ui (V)	800		
Rated impulse withstand voltage Uimp (kV)	8		
Rated operating voltage Ue(V)	400 (2P 产品 230V)		
Rated working current Ie(A)	16/20/25/32/40/50/63/80	40/50/63/80/100/125	80/100/125/140/160/200/250
Rated operating frequency (Hz)	50		
Rated short-time withstand current Icw(kA)	5	10	10
Rated short-circuit ability Icm(kA)	7.65	17	17
Mechanical life (cycles)	8000	8000	8000
Electrical life (cycles)	2000	2000	1500
Conversion time	≤2.0s	≤2.0s	≤2.0s
Controller			
Automatic operation mode - self feed self recovery	■		
Power Grid (P)- Power Grid (P)	■		
Monitoring common power supply phase loss	■		
Monitoring of common power supply voltage loss	■		
Monitor the backup power voltage loss	■		
Handle manual operation	■		
Indicator external terminal	□		
Double fire control	□		
Standby power supply indication	■		
dimension	CDQ0s-80	CDQ0s-125	CDQ0s-250
Overall dimension (W*H*D)	245*120*100	265*130*106	340*170*137
Dimensions of mounting holes (W*H)	232*97	252*118	325*155
Product phase spacing	25	30	40

■ Standard □ Optional (if required, please specify when ordering)

Product Parameter

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Using Method



You are advised to install it in the A or B direction, not in the C&D direction

CDQ0s Wiring Method

Connect the common power terminal to phases A, B, C, and N of the common power supply, and connect the standby power terminal to phases A, B, C, and N of the standby power supply.

Note: For 3-pole products, the N-phase signal wires of the common and standby power supply must be correctly connected to the corresponding terminal outside the controller of the product inlet terminal.

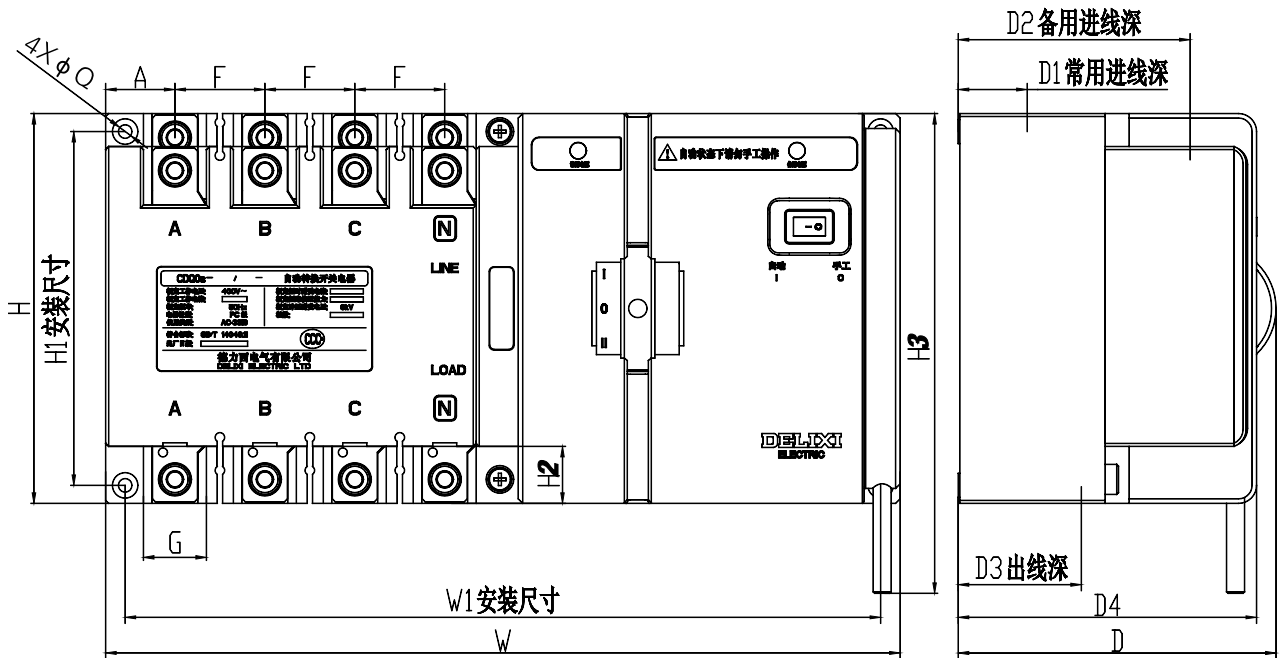
The cross-sectional area of a signal cable must not be less than 0.5mm.

If it is A 2-pole product, the A phase and N phase must be connected correctly.

Appearance and Installation Dimension

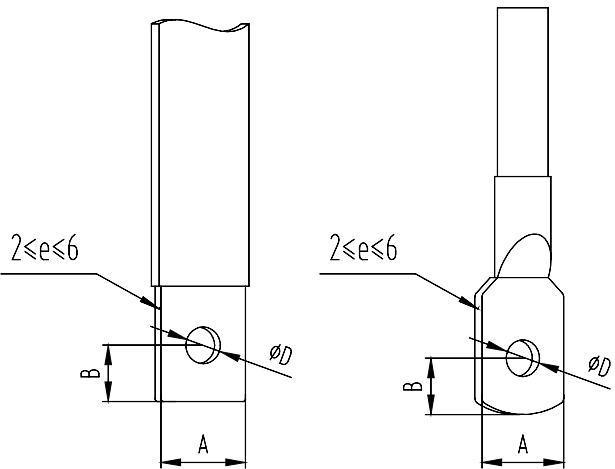
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Appearance and Installation Dimension



Model	W	W1	H	H1	A	F	G	H2	H3	D	D1	D2	D3	D4	Q
CDQ0S-80	245	232	120	97	21	25	17	15.5	155	100	24.5	63.5	40	91	4.5
CDQ0S-125	265	252	130	118	23	30	21.5	19	160	106	23	78	44.5	99.5	4.5
CDQ0S-250	340	325	170	155	31.5	40	30.5	25	210	137	27	97	54.5	122.5	5.5

Wiring Dimension



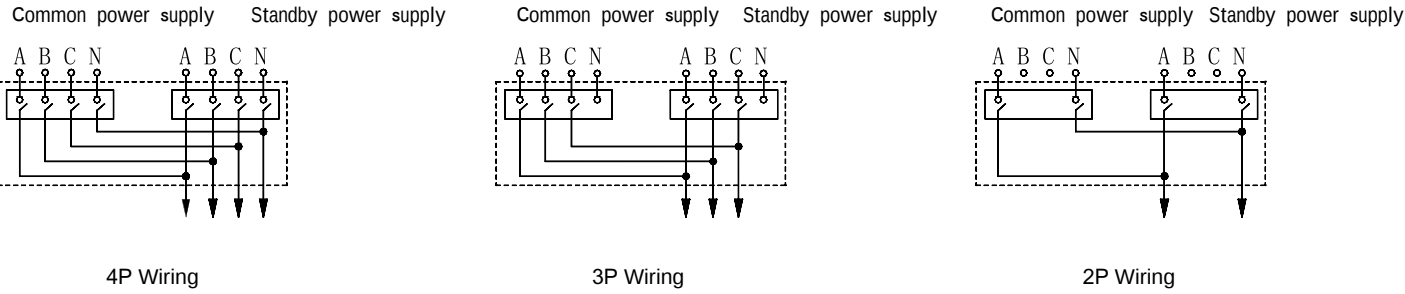
Model	No	A	B	ΦD
CDQ0S-80		16	9	6.5
CDQ0S-125		21	11	6.5
CDQ0S-250		30	15	8.5

Wiring Diagram

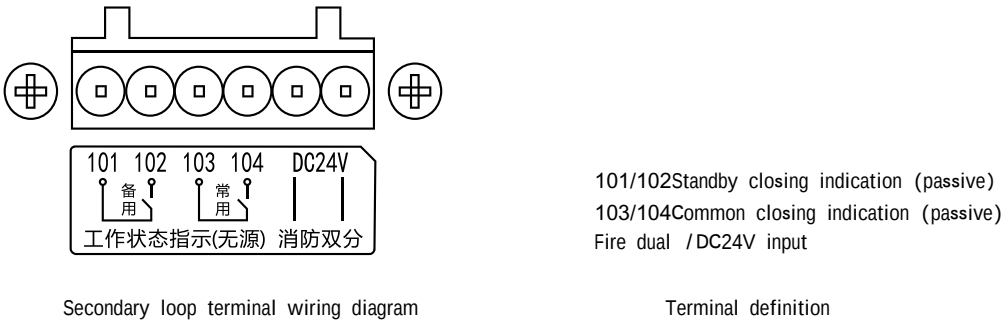
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Wiring Diagram

Product Wiring Diagram



Secondary terminal wiring diagram (Optional function, not default)



(Note: closing indicator and fire double terminal are optional functions, refer to the actual object)