



---

(1)

(2)

(3) TQWX-III

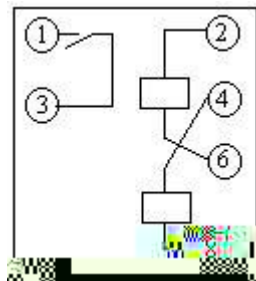
DL-31

DL-31

DL-31

0.8

2-3



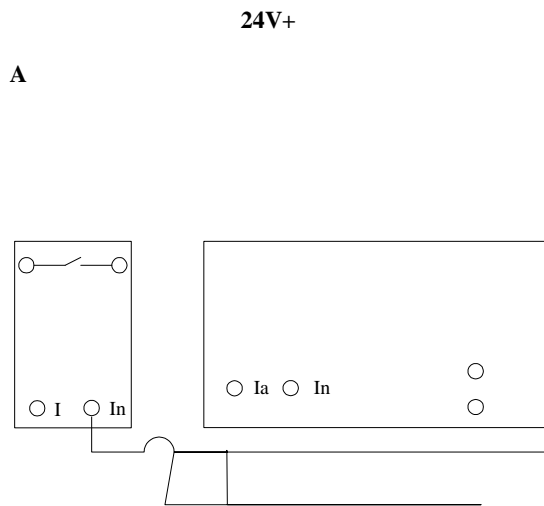
2-3 DL-31

(1)

(2)



2-4  $I_a$   
 $I$   $I_n$   
 2-4 1  
 24V+ 24V- A K



2-4

3.5A

(1)

a.

PC

2-5

b.

2-6

2-7

$I_a$

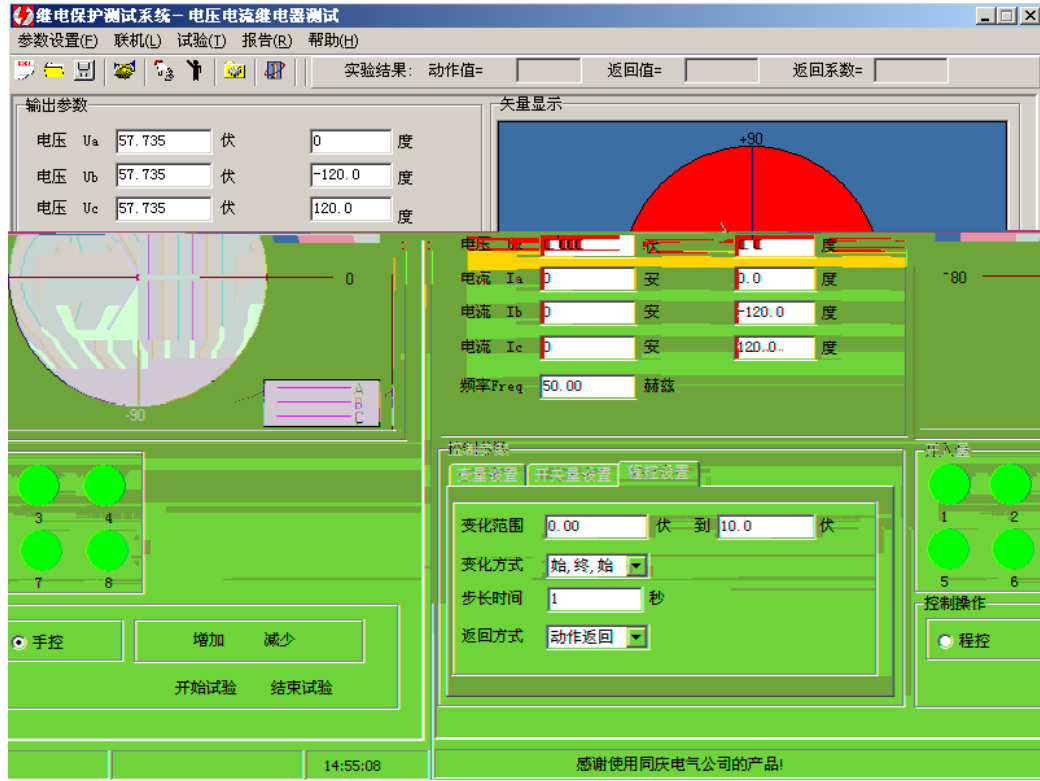
2-4

A

0.05A

2-4

1



2-5

c.

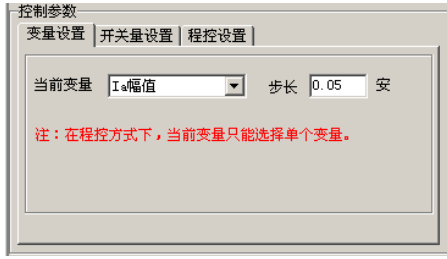
$I_a$

0

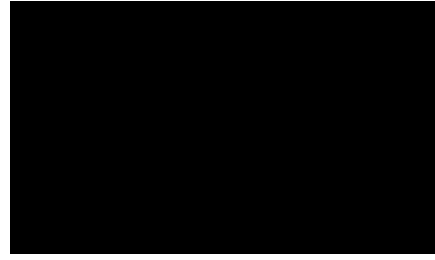
d.

e.

TQWX-III



2-6



2-7

f.

g.

$$\frac{[ \quad ] / \quad \times 100\%}{[ \quad ] / \quad \times 100\%}$$

$$/$$

2-1

h.

4.5A

2-1

2-2

2-1

3.5A

	(A)	(A)	
1			
2			
3			
4			
(A)			/
(%)			
(%)			

2-2

	(A)	
1	3.5	
2	4.5	

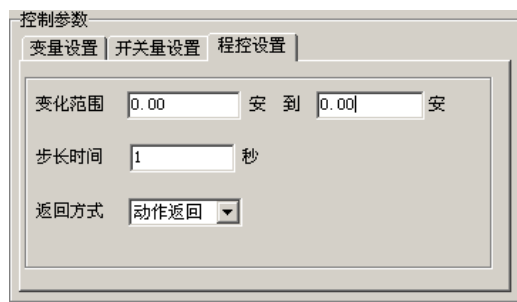
(2)

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a. 2-5

b.

2-8



2-8

0.5s

c.

(1)

(2)

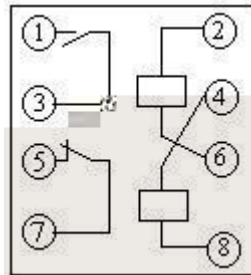
- 
- (1)
  - (2)
  - (3) DY-36

DY-36

DY-36

! !

2-9

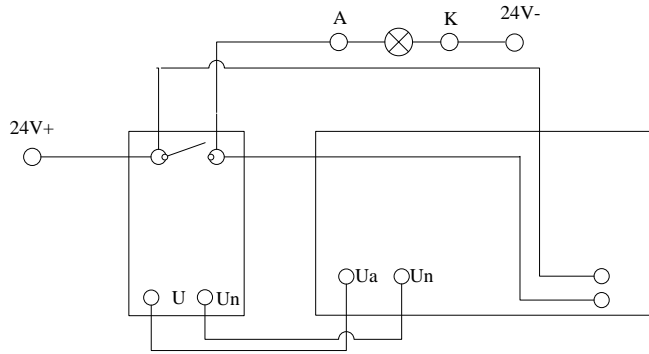


2-9 DY-36

2-10

$U_a$   $U_n$

$U$   $U_n$



2-10

50V

(1)

a. 2-10

b. PC

c. 2.2  $U_a$

3 2-3

2-3 50V

	(V)	(V)	
1			
2			
3			
(V)			/
(%)			
(%)			



---

--	--

(2)

a. 2-10

b.

0  
A                      55V                      0.5V  
 $U_a$

3

2-4

**2-4**

	(V)	(V)	
1			
2			
3			
(V)			/
(%)			
(%)			
(V)	50		

(1)

(2)

(3)

(1)

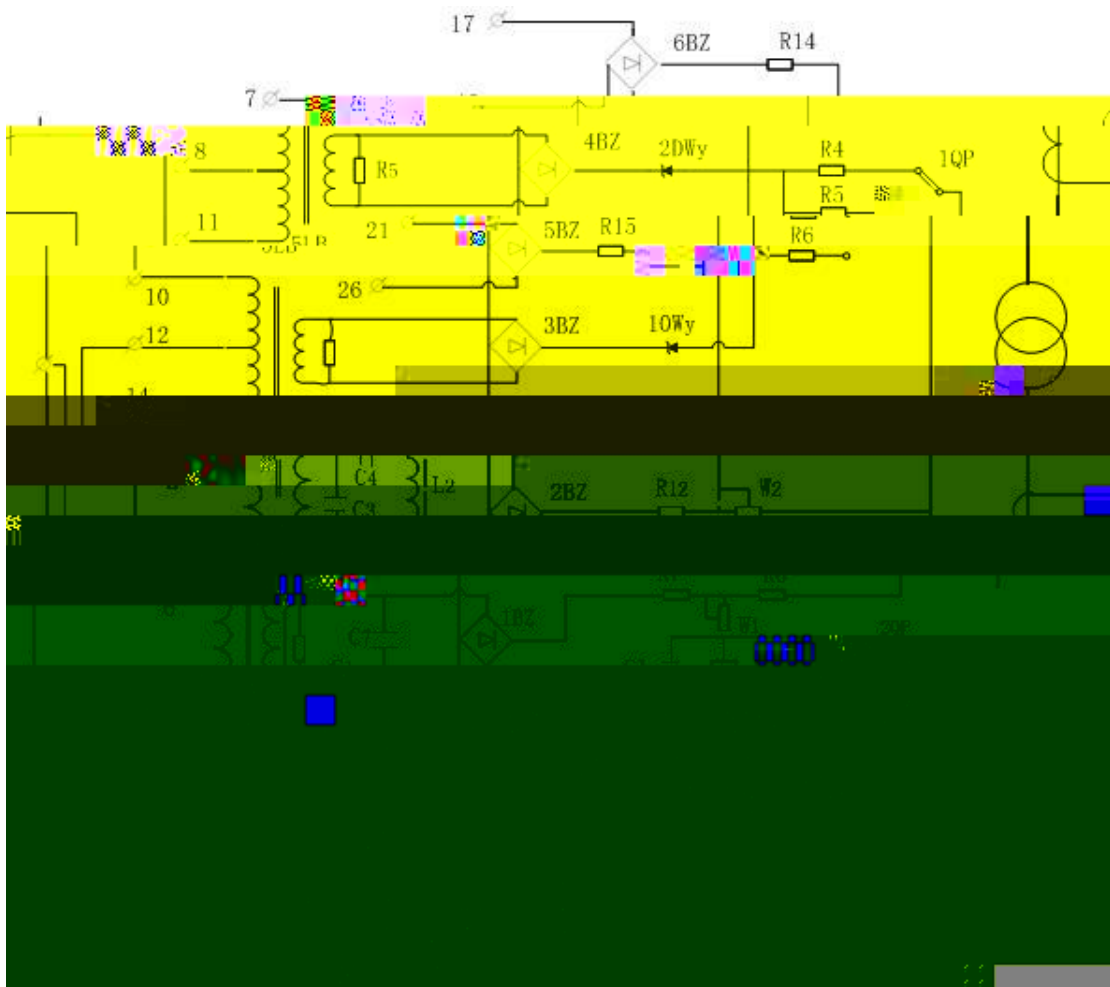
(2)

LCD-4

LCD-4

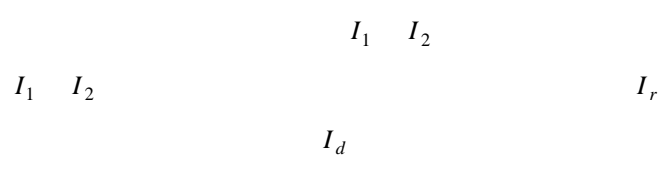
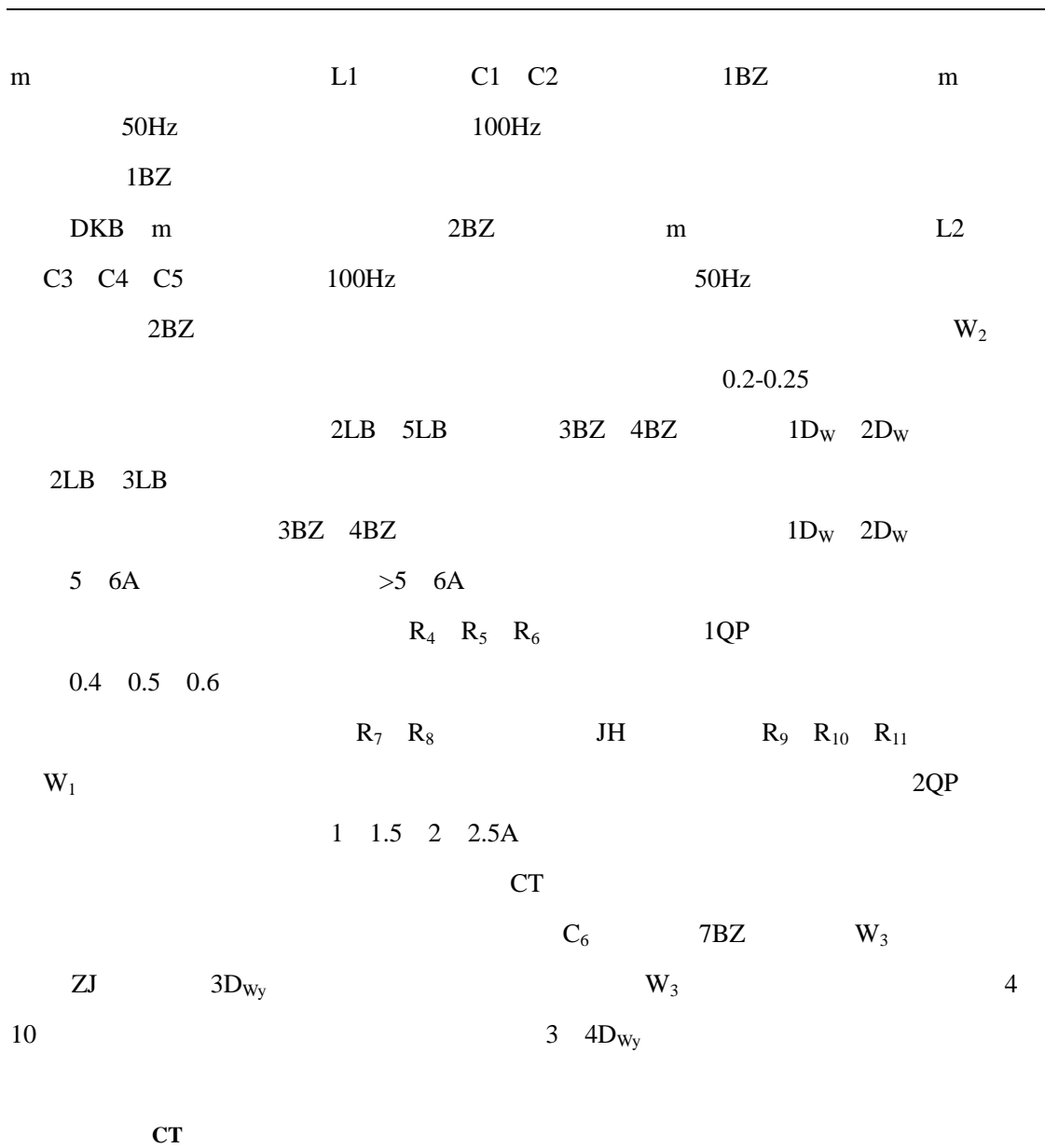
LCD-4

2-18



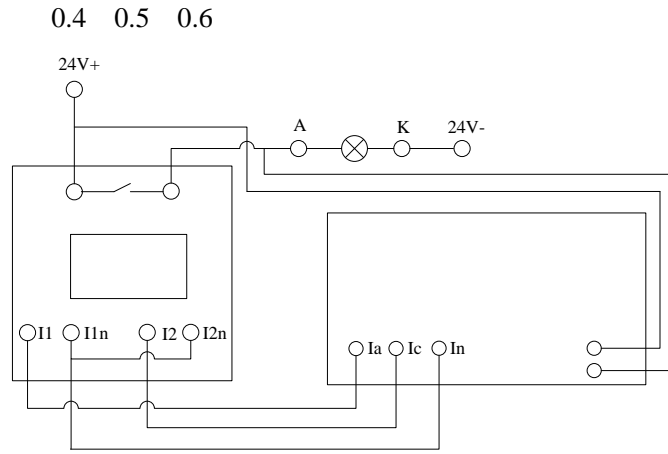
2-18 LCD-4

1LB



1 2.5A

1A 1.5A 2A 2.5A



2-19

(1) 2A 0.5

(2) PC

(3)

$I_1, I_2$   $I_1$   $I_2$   $I_2$   
 $I_d$   $I_1$   $0$   $I_2$

180

$(I_d, I_r)$

LCD-4

$$I_d = I_1 + I_2 \quad I_r = I_1 \quad I_2$$

2-20

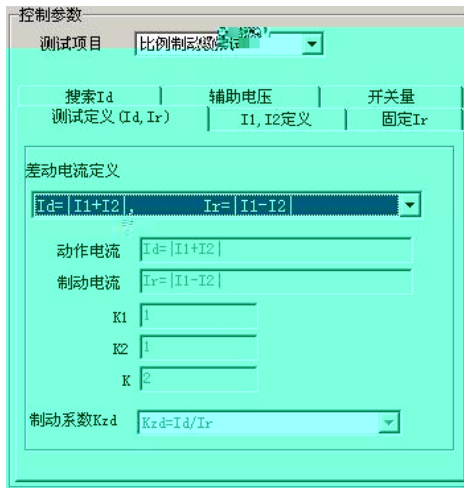
$I_r$

$I_r$

$I_r$

$I_r$

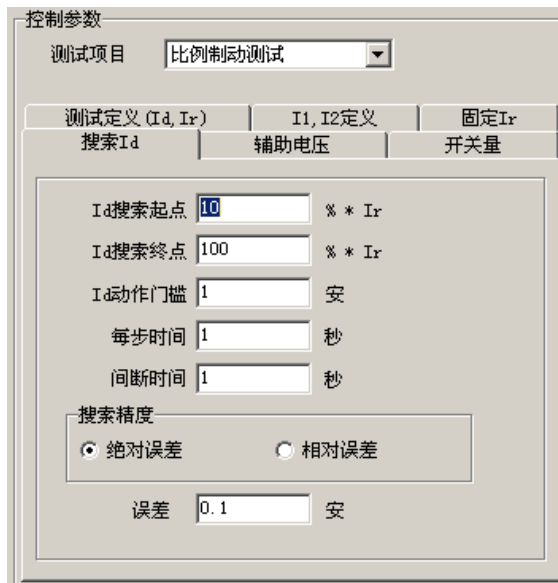
2A 10A 0.5A



2-20 ( $I_d$   $I_r$ )

$I_d$   $I_r$   $I_d$  2-21 (  $I_d$   $I_r$  )  
 TQWX-III

$I_d$  10 100  $I_d$  2A 1  
 1 0.01A



2-21  $I_d$

$I_d$  1  
 100  
 (4) I II II  
 I2  
 $K_{zd}$   $I_d$   $I_r$   
 (5)

---

(6)                      0.4   0.6                      3-5  
 $I_d = f(I_r)$

(1)

(2)

- 
- (1)
  - (2)
  - (3)

- (1)
- 

$$I_{pu} = K_{rel}^I \frac{E'}{X_S + X_0 L}$$

$$E' \qquad X_S \qquad X_0$$

$$L \qquad K_{rel}^I$$

1.2~1.3

---

- (2)
- 
- 

$$L_1 = \frac{L}{K_{rel}} \quad 0.75L$$

$$K_{rel} \qquad 1.3 \sim 1.4$$

$$I_{pu} = \frac{E'}{X_S + X_0 L_1}$$

$E'$

$X_S$

$X_0$

$L_1 = 0.75 L$

$I_{pu}$

$U_{pu} = \sqrt{3} I_{pu} X_0 L_1$

2-22

A 3QF

DL-31

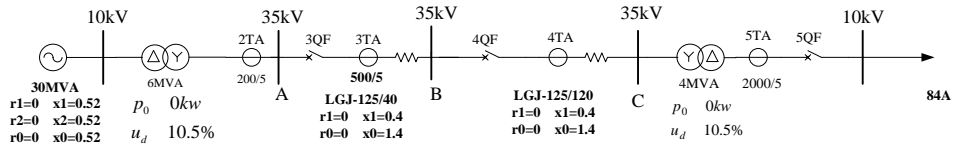
DZY-202

2-23

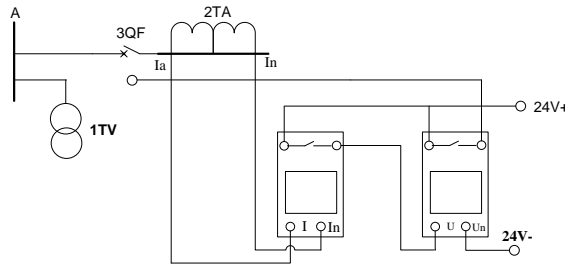
DL-31

DY-36

2-25



2-22



2-23

(1)

2-23

3QF

$I_a$   $I_n$

DL-31

$I$   $I_n$



(2)

2-22

2-13

DL-31

(3)

.ddb

.ddb

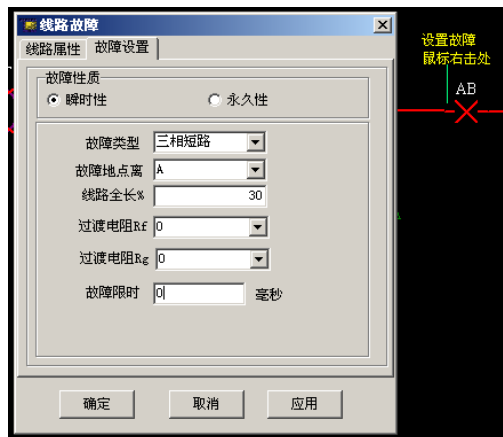
a.

2-24 AB

1 99

$R_f$   $R_g$  0

0 0



2-24

0% 100%

b.

c.

3QF

d.

e.

3QF

f.

a-e

2-13

g. AB AB  
2-13

2-13

	(A)	(V)		
				AB
	5.03			
	4.55	15.6		

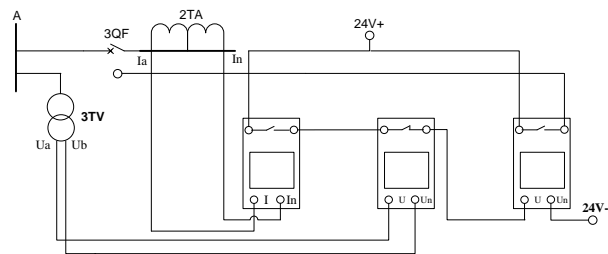
(1)

2-25 3QF (3TV)  
 $U_a$   $U_b$  DY-36  $U$   $U_n$  3QF  
 (TA)  $I_a$   $I_n$  DL-31  $I$   $I_n$   
 3QF

(2)

2-13

100V



2-25

(3)

AB

2-13