

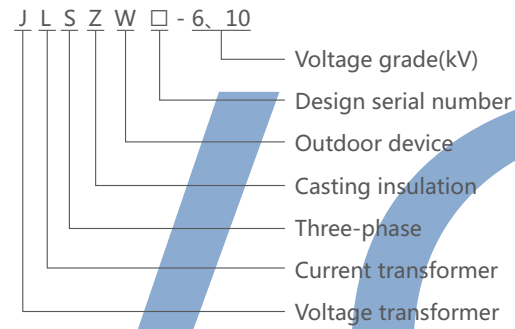


### General Introduction

JLSZW□-6、10 three-phase outdoor dry high-voltage electric measuring tank (combined transformer) is made up of two or three single-phase voltage transformers (PT) and current transformers (CT). PT and CT are both electromagnetic type.

This type of transformer is applicable to 50Hz (rated frequency), three-phase AC, 6kV, 10kV (rated voltage) electric net for power measuring. It is fixed on the high-voltage side of power supply transformer. There is one three-phase active watt-hour meter and one reactive watt-hour meter installed inside measuring box, which are used to directly measure active and reactive appliance in high-voltage circuits.

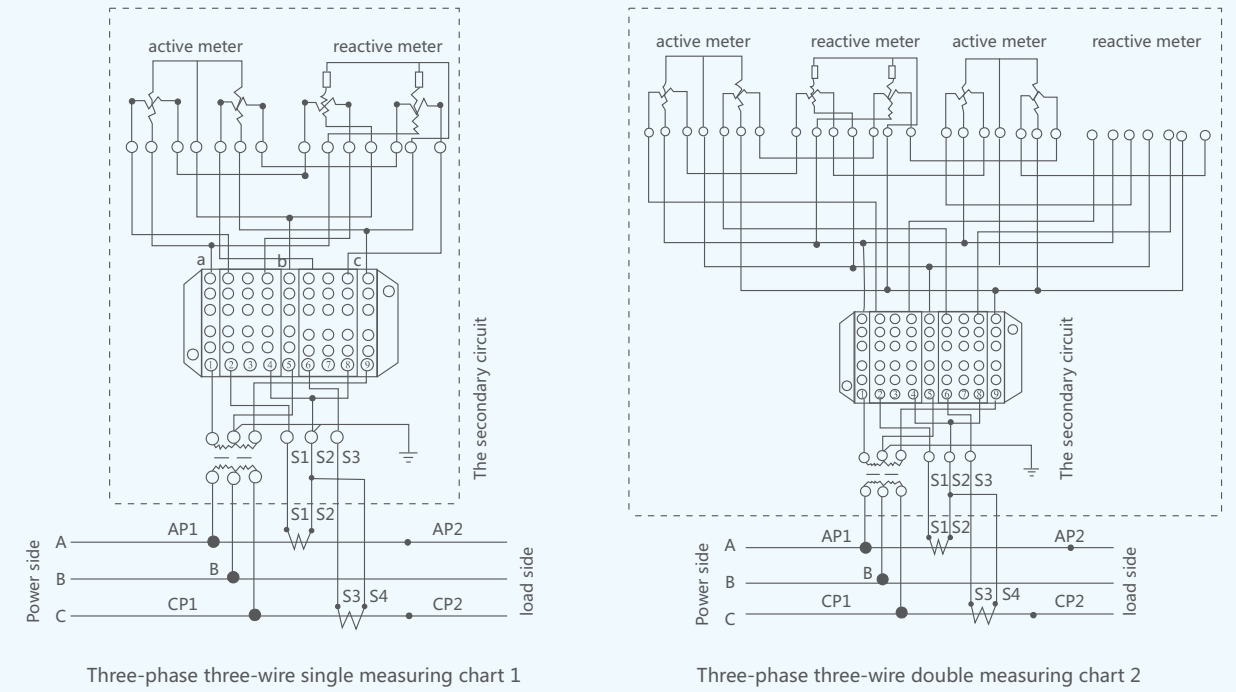
### Model and Meaning



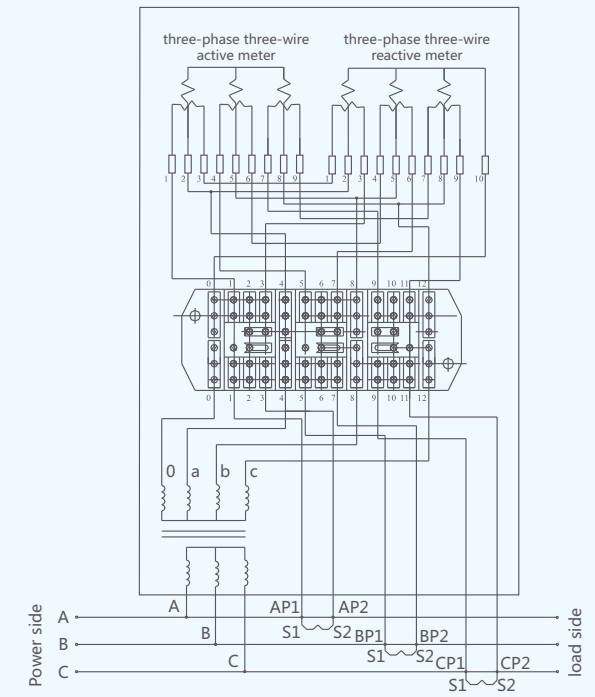
### Technical Specification

1. Rated Voltage: 10kV, 6kV
2. Accuracy Class: 0.5 and 0.2, 0.5S and 0.2S

### Elementary Diagram

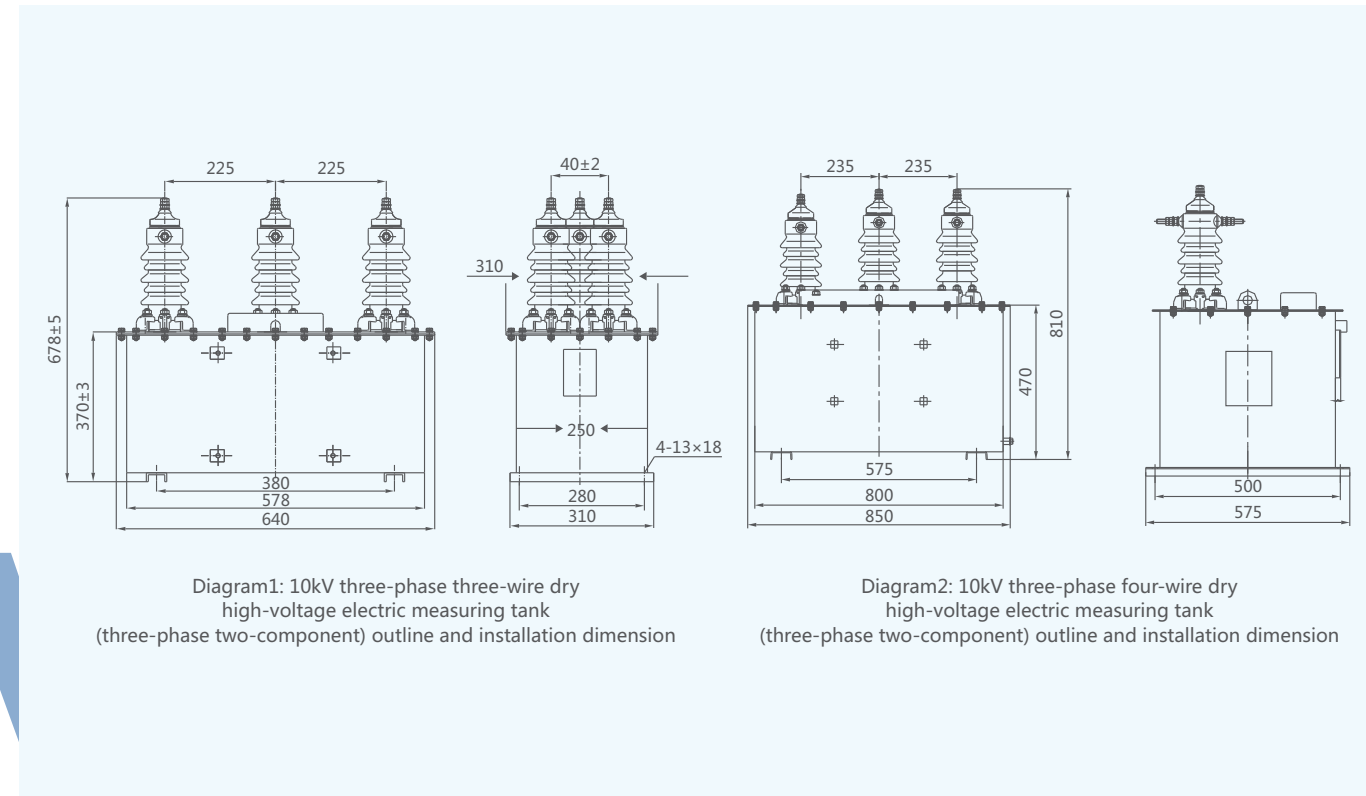


Two-phase One ground system: Putting the wiring terminal of phase-'B' bushing in above chart to earth alone reliably, the rest is same as above.  
Note: S2 parallel connection with S4 is changed to S2

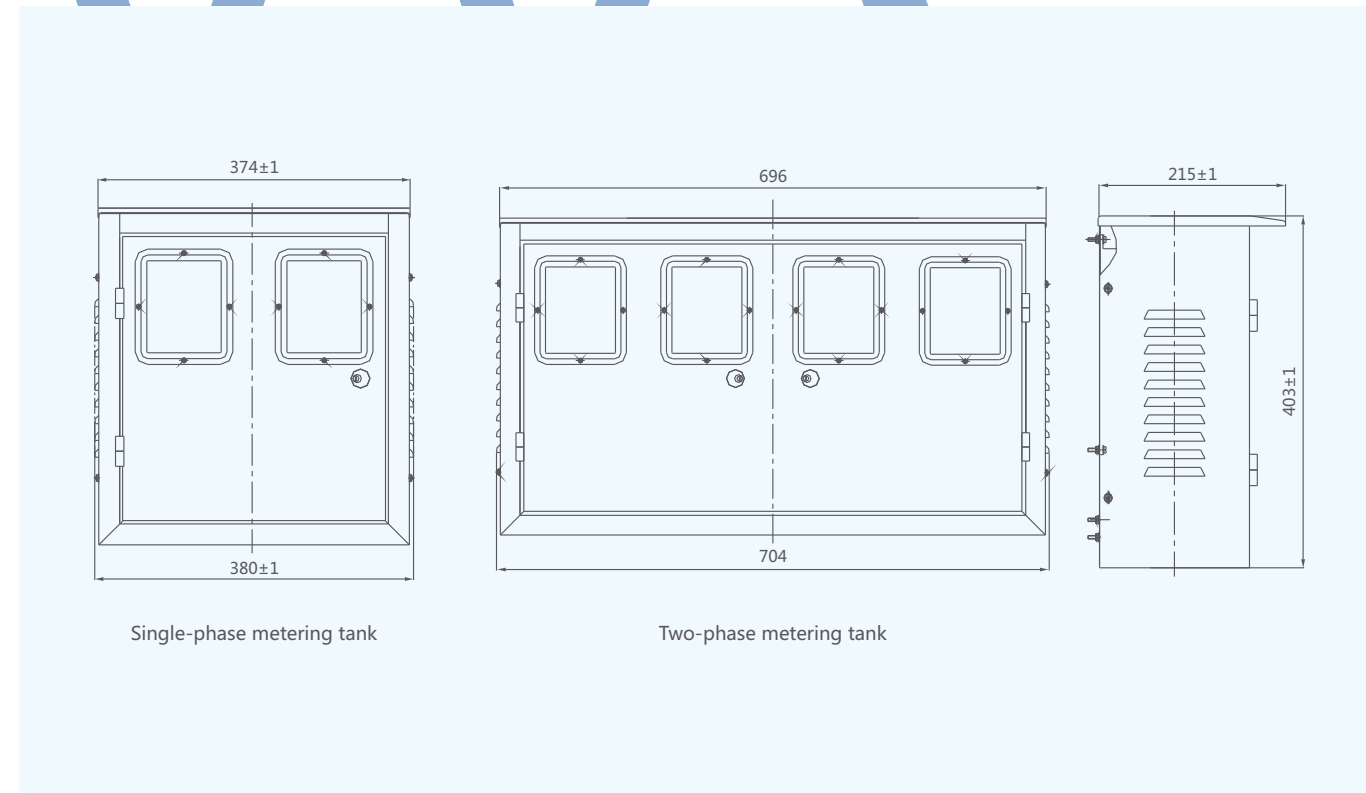


Connection diagram 3 of three-phase four-wire watt-hour meter

Elementary Diagram



Outline Diagram of Metering Tank



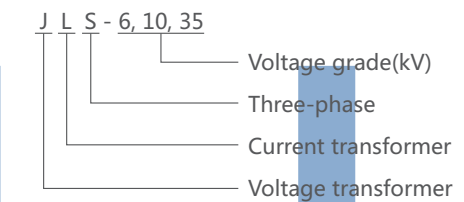
General Introduction



The product mainly consists two parts, combined transformer and watt-hour meter tank. The former is made up of two or three single-phase voltage transformer and current transformer, which adopts 25# mutual inductor oil as insulating medium and whose primary and secondary line ends are both installed on the panel by porcelain bushing. Watt-hour meter tank is fixed on the side of combined transformer and comprises one active watt-hour meter and reactive watt-hour meter, which has high-precision measurement, light weight, convenient install-stion and electricity theft resistance.

The power measuring tank is applicable to three-phase system net with rated voltage of 6, 10, 35kV and rated frequency of 50Hz.

Model and Meaning



Technical Specification

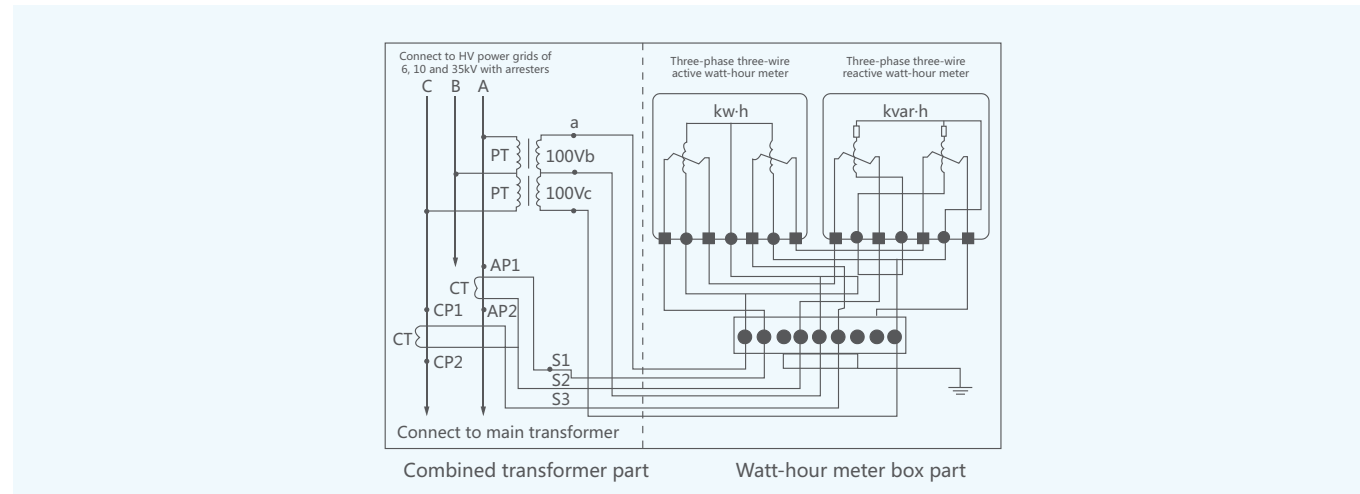
1. The product function is in accordance with GB17201-2006;
2. Rated Voltage: 6kV, 10kV, 35kV;
3. Accuracy Class: 0.5 and 0.2; 0.5S and 0.2S
4. Rated Ratio: Ratio-voltage 6000/100; 10000/100; 35000/100  
Ratio-current 5~300/5 (high ratio-current can made to order)

Technical Specification of Combined Transformer

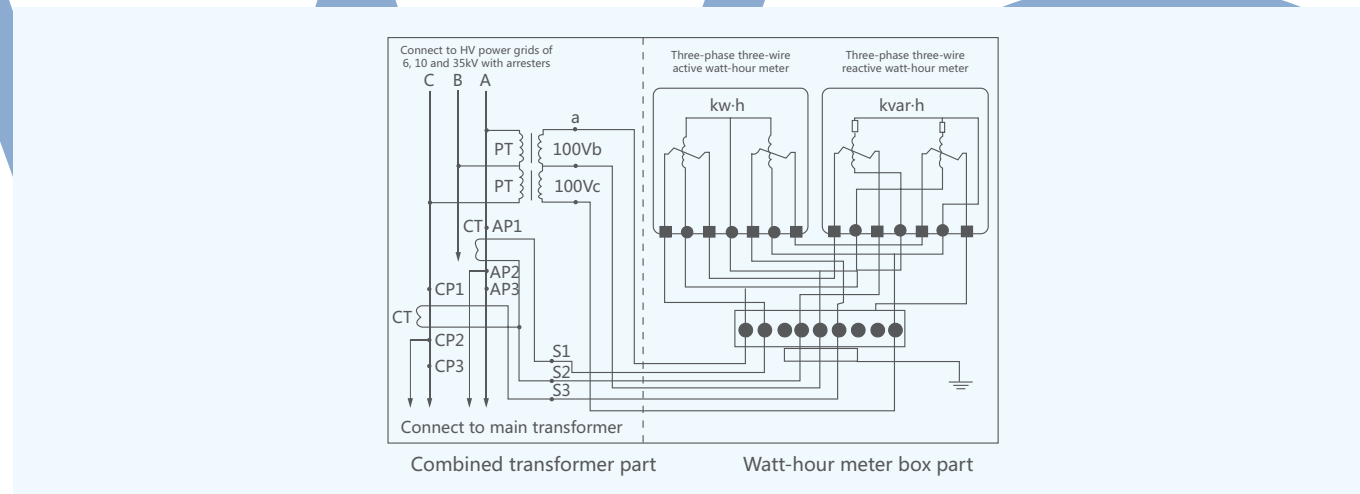
Model	Rated voltage Ratio(V)	Rated current Ratio(A)	Frequency (Hz)	Voltage transformer Accuracy class and rated output(VA)		Current transformer Accuracy class and rated output(VA)		Rated insulating Level(kV)	Standard code
				0.2 Class	0.5 Class	0.2 Class	0.5 Class		
JLS-3	3000/100	5-300/5	50	20	25	10	10	3.6/24/75	GB1208-2006 GB1207-2006 GB17201-97
JLS-6	6000/100	5-300/5	50	20	25	10	10	7.2/32/75	
JLS-10	6300/110	5-300/5	50	20	25	10	10	7.2/32/75	
JLS-10	10000/100	5-300/5	50	25	25	10	10	12/42/75	
JLS-35	35000/100	5-300/5	50	50	50	10	10	40.5/95/185	

This model of high-voltage electric measuring tank has two types, single ratio and double ratio. In double ratio wiring case, heavy current ratio connects AP1, AP2 and CP1, CP2, and light current ratio connects AP3 and CP1, CP3. The schematic drawing is illustrated as follows.

Single Ratio Wiring Diagram



Double Ratio Wiring Diagram



Outline Diagram of Electric Meter Tank

Diagram1: Outline and installing dimension of 6kV, 10kV three-phase four-wire-immersed high-voltage electric measuring tank (three-phase three component)

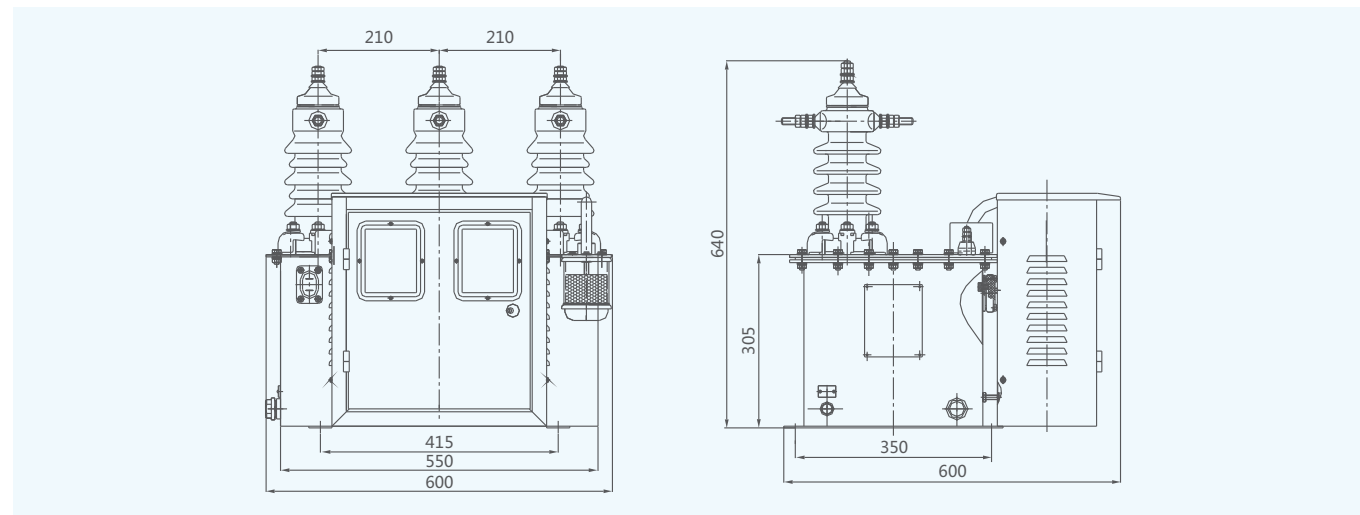


Diagram2: Outline and installing dimension of 6kV, 10kV three-phase three-wire oil-immersed high-voltage electric measuring tank (three-phase two-component)

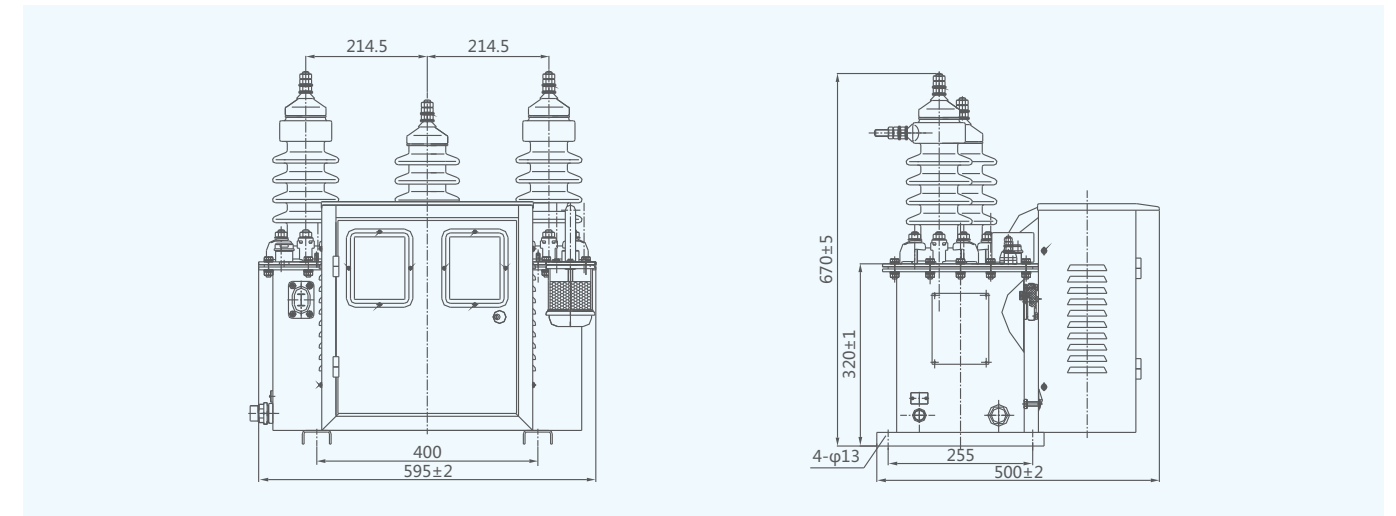


Diagram3: Outline and installing dimension of 35kV three-phase three-wire measuring tank (three-phase two-component)

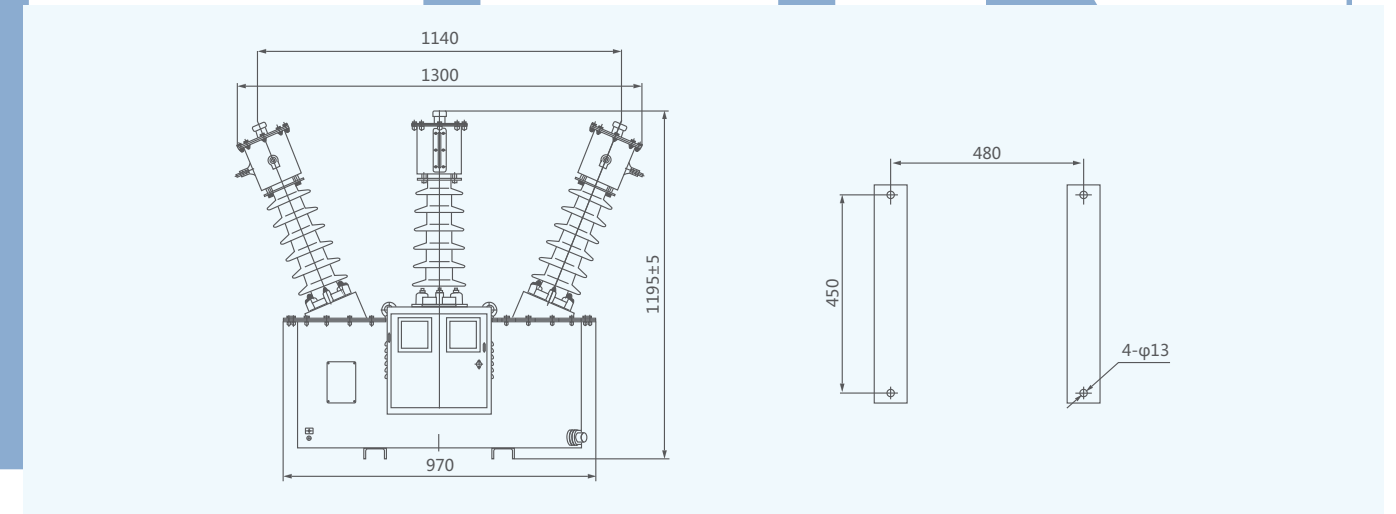
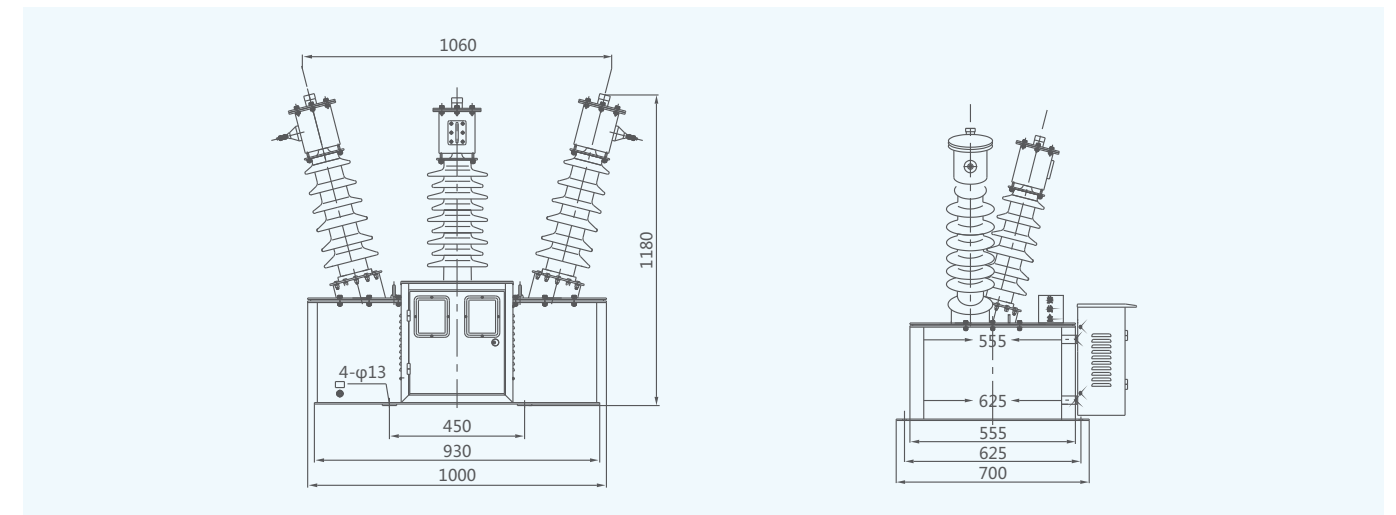


Diagram4: Outline and installing dimension of 35kV three-phase four-wire measuring tank (three-phase three component)





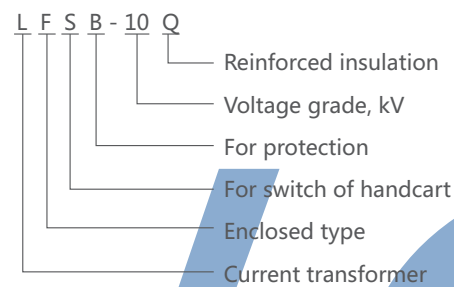
### General Introduction

This type of current transformer is casting resin, fully enclosed and post type product. It is used for metering electric energy and current, relay protection in the electrical system. It conforms to the standards IEC44-1 and GB1208-2006.

### Structural introduction

This type of current transformer is fully enclosed and post type. It has a good ability of insulation, moisture proof and antipollution. It is small and light. It can be installed at any place and any direction.

### Model and Meaning



### Technical Specification

1. Rated insulation level: 12/42/75kV;
2. Rated secondary current: 5A,1A;
3. Refer to the table for rated primary current, accuracy class combination, rated output, rated dynamic and thermal current.
4. The conditions of partial discharge test is in line with GB1208-2006 current transformer.
5. Antipollution class: IIclass.

### Technical Specification

Model	Rated Primary Current (A)	Accuracy Class Combination	Rated Secondary Output(VA)			Rated Short-time thermal-current (KA virtual value)	Rated Dynamic Stability Current (KA virtual value)
			0.2	0.5	10P10		
LFS-10 (LZZB-10)	5-200	0.2/0.2 0.5/0.5 0.2/0.5 0.2/10P10 0.5/10P10	10	10	15	8011N	20011N
	300					21	50
	400					24	60
	600					30	70
	800					40	75
LFSB-10 (LZZBJ-10)	5-200	0.2/10P10 0.5/10P10	10	10	20	8011N	20011N
	300					21	50
	400					24	60
	600					30	70
	800					40	75

Diagram1 Outline and installation dimension of LFS-10Q(LZZB-10)

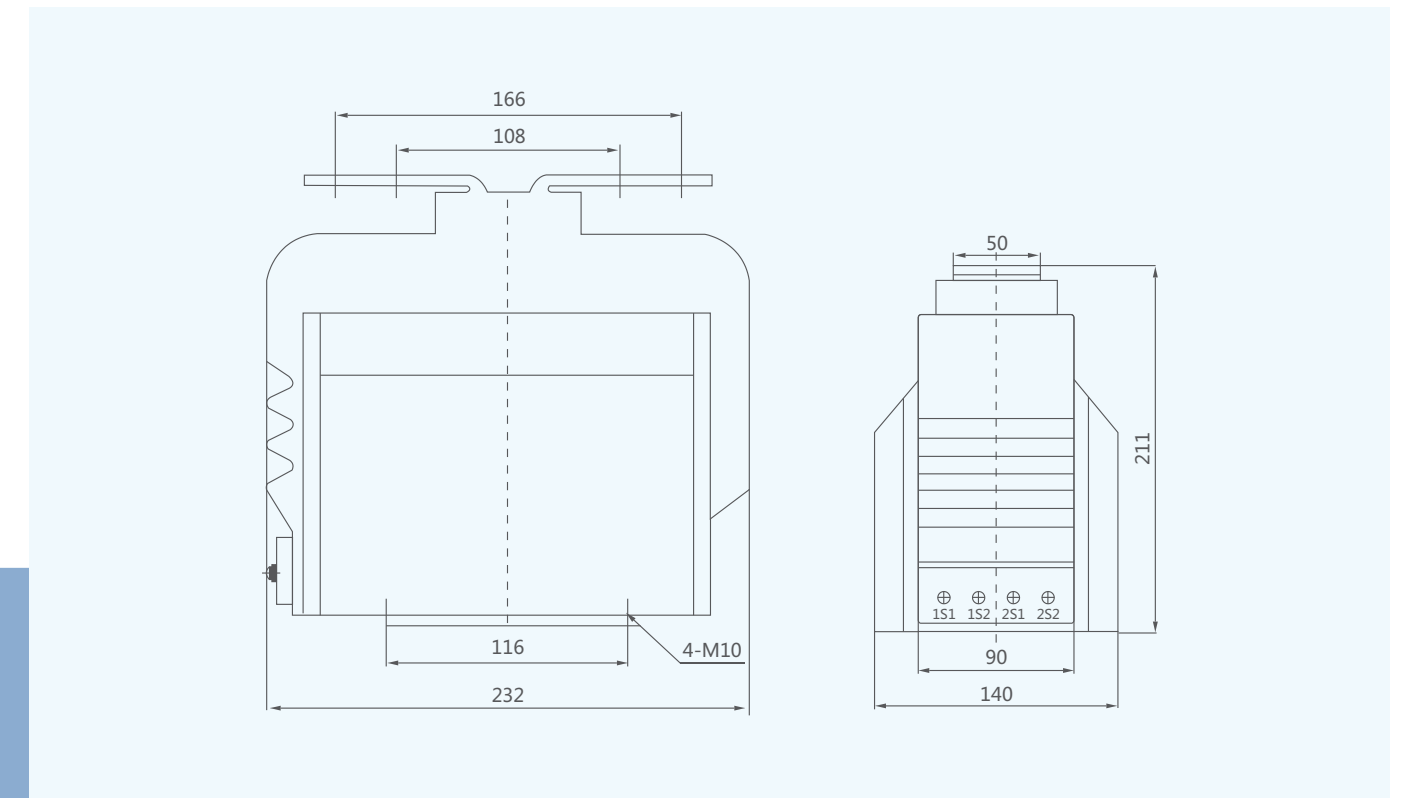
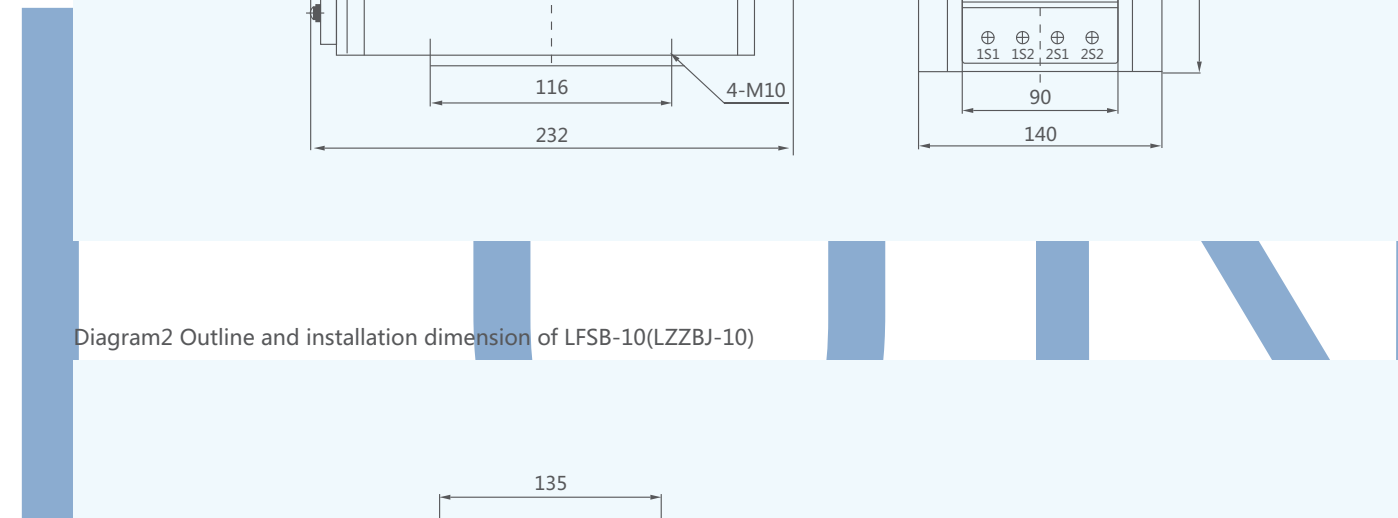
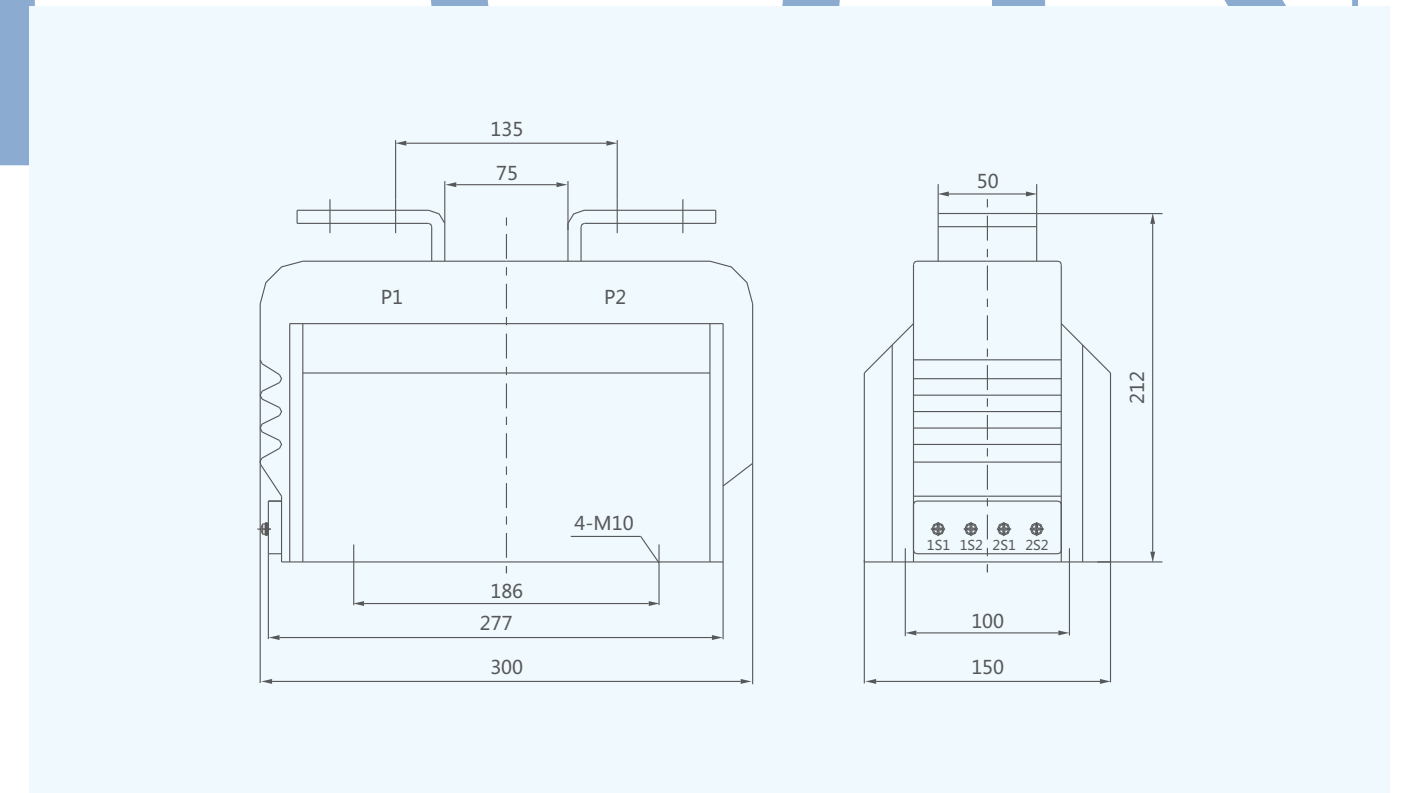


Diagram2 Outline and installation dimension of LFSB-10(LZZBJ-10)

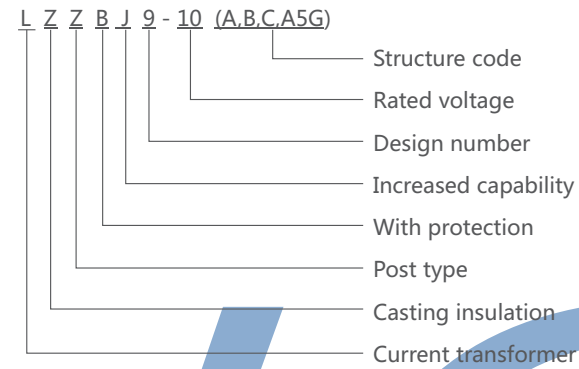


**General Introduction**

This current transformer is of a whole sealing casting insulation pillar type, used for measurement of current and electric energy as well as relay protection in the AC circuit of rated frequency 50Hz and rated voltage 10kV.



**Model and Meaning**



**Technical Specification**

1. The performance of products is conformed to IEC standard and GB1208-2006 Current Transformer.
2. Rated insulation level: 12/42/75kV
3. Load power factor:  $\cos\phi=0.8(\text{Lag})$
4. Rated frequency: 50Hz
5. Rated secondary current: 5A, 1A
6. Partial discharge level: In conformity to GB5583-85 standard, its partial discharge is not more than 20PC.

**Main Technical Data**

Model	Rated primary current (A)	Accuracy class combination	Rated secondary output(VA)				Rated short-time thermal current (KA virtual value)	Rated dynamic stability current (KA peak)
			0.2,0.2S	0.5, 0.5S	10P10	10P15		
LZZBJ9-10 (A,B,C)	5	0.2/10P 0.2S/10P 0.5/10P 0.5S/10P	10	10	10	15	2	5
	10						4.5	11
	15						6.3	15
	20						9.5	23
	30						12.6	31.5
	40						18	45
	50						22	55
	70						36	80
	100-200						50	90
	300-600						72	100
	800-1250						80	110
	1500-3150						100	130

Model	Rated Primary Current (A)	Accuracy class combination	Rated output (VA)	Rated short-time thermal current (KA virtual value)	Rated dynamic stability current (KA peak)
LZZBJ9-10A5G	20,30,40,50,75,100	0.2/0.2/5P10	10/10/40	150IIn	375IIn
	150,200	0.2/0.5/5P15	10/15/30	31.5	80
		0.2/0.5/5P20	10/15/20	45	112.5
		0.2/5P10/10P15	10/20/20		
		0.5/5P10/10P20	10/20/15		
	600,800	0.2/0.2/5P10	10/10/40	63	130
		0.2/0.5/5P15	10/15/30		
		0.2/0.5/5P20	10/15/20		
		0.2/5P10/10P15	10/20/20		
	1000,1200,1250	0.2/0.2/5P10	10/10/40	80	160
		0.2/0.5/5P15	10/15/30		
		0.2/0.5/5P20	10/15/20		
0.2/5P10/10P15		10/20/20			
1500	0.2/0.2/5P10	10/10/40	100	160	
	0.2/0.5/5P15	10/15/30			
	0.2/0.5/5P20	10/15/20			
	0.2/5P10/10P15	10/20/20			
2000	0.5/5P10/10P20	10/20/15			
	0.2/0.2/5P10	10/10/40	100	160	
	0.2/0.5/5P15	10/15/30			
	0.2/0.5/5P20	10/15/20			
0.2/5P10/10P15	10/20/20				
2500	0.5/5P10/10P20	10/20/15			
	0.2/0.2/5P10	10/10/40	100	160	
	0.2/0.5/5P15	10/15/30			
	0.2/0.5/5P20	10/15/20			
0.2/5P10/10P15	10/20/20				
3000,3150	0.5/5P10/10P20	10/20/15			
	0.2/0.2/5P10	10/10/40	100	160	
	0.2/0.5/5P15	10/15/30			
	0.2/0.5/5P20	10/15/20			
0.2/5P10/10P15	10/20/20				
3000,3150	0.5/5P10/10P20	10/20/15			



Outline and Installation

Fig 1 Overall and installation dimension of LZZBJ9-10A current transformer

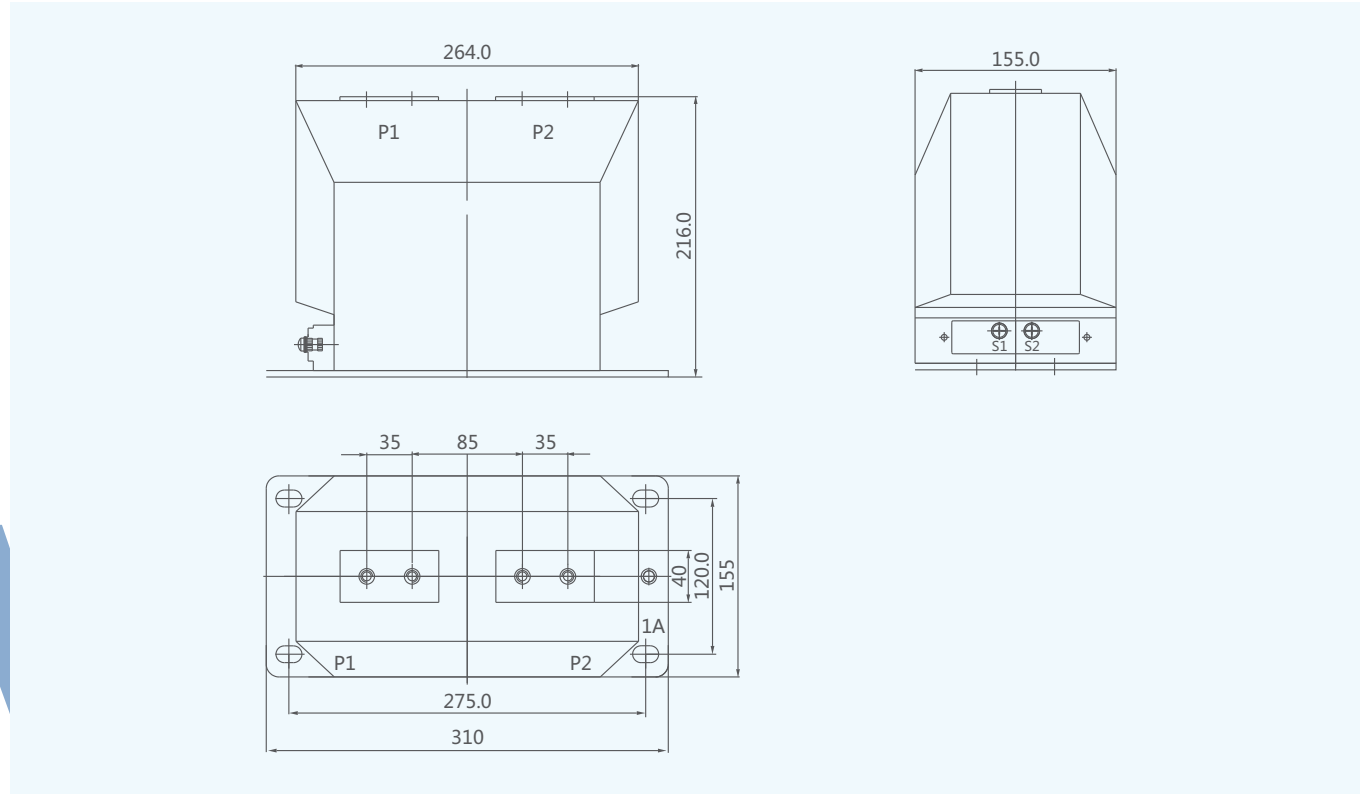
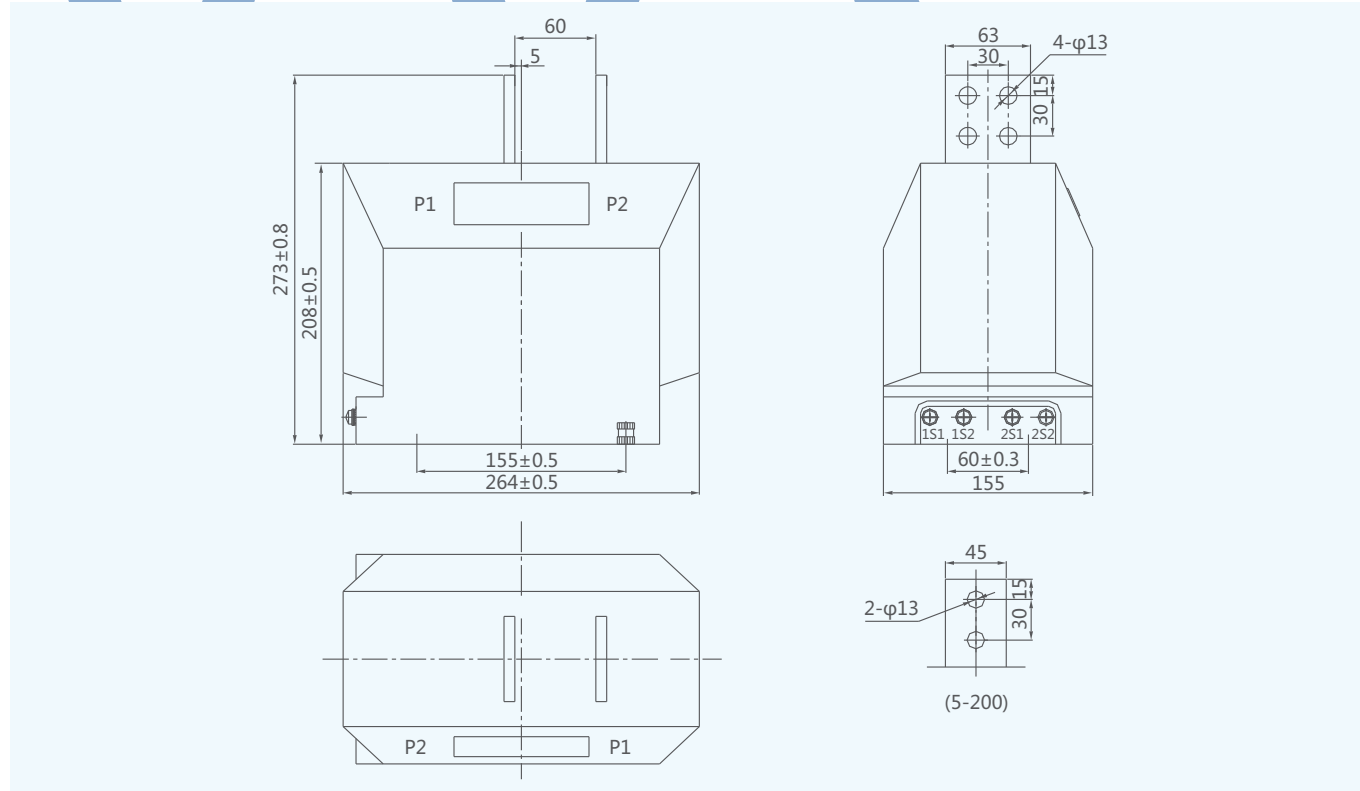


Fig 2 Overall and installation dimension of LZZBJ9-10B current transformer



Outline and Installation

Fig 3 Overall and installation dimension of LZZBJ9-10C current transformer

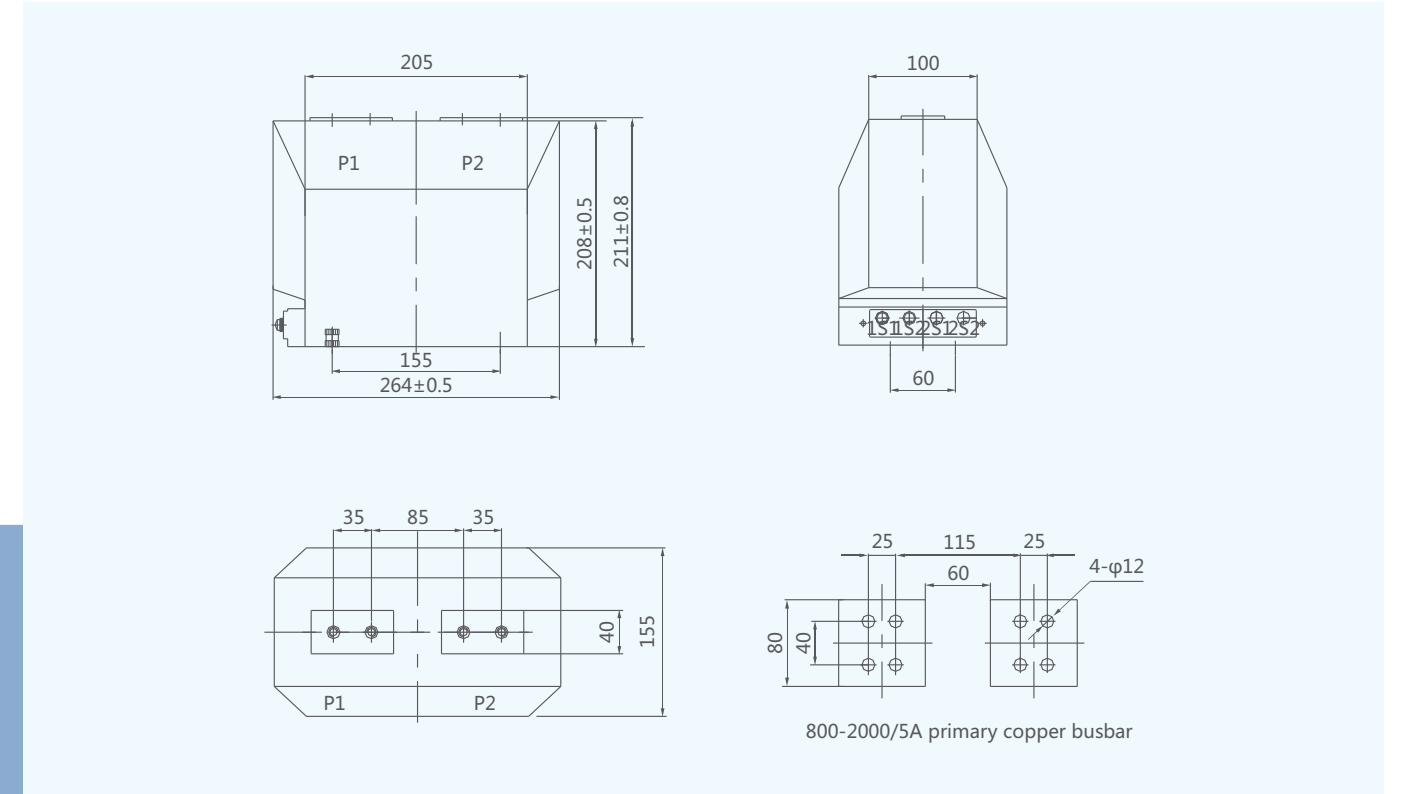
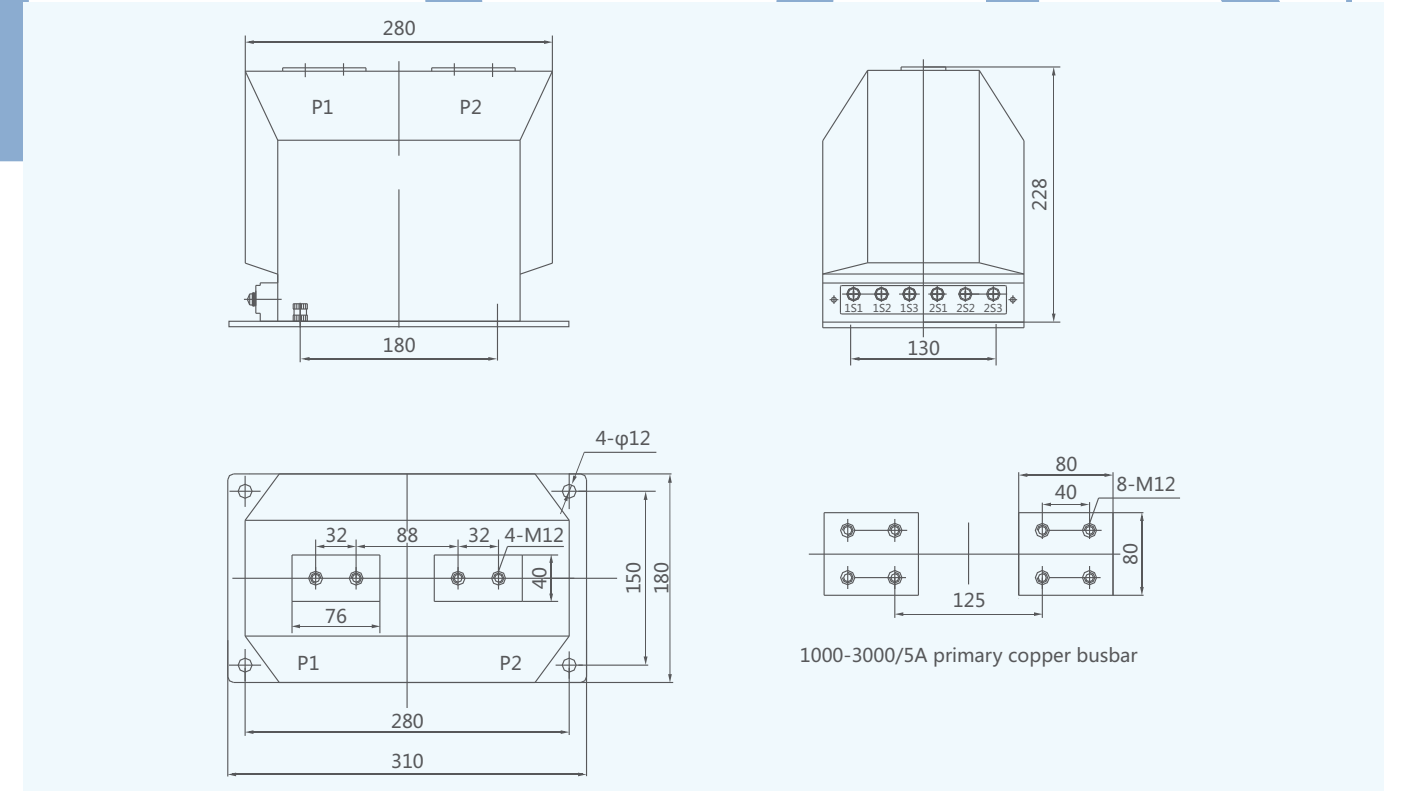


Fig 4 Overall and installation dimension of LZZBJ9-10C 2 current transformer



**Outline and Installation**

Fig 5 Overall and installation dimension of LZZBJ9-10A5G 5-1000A current transformer

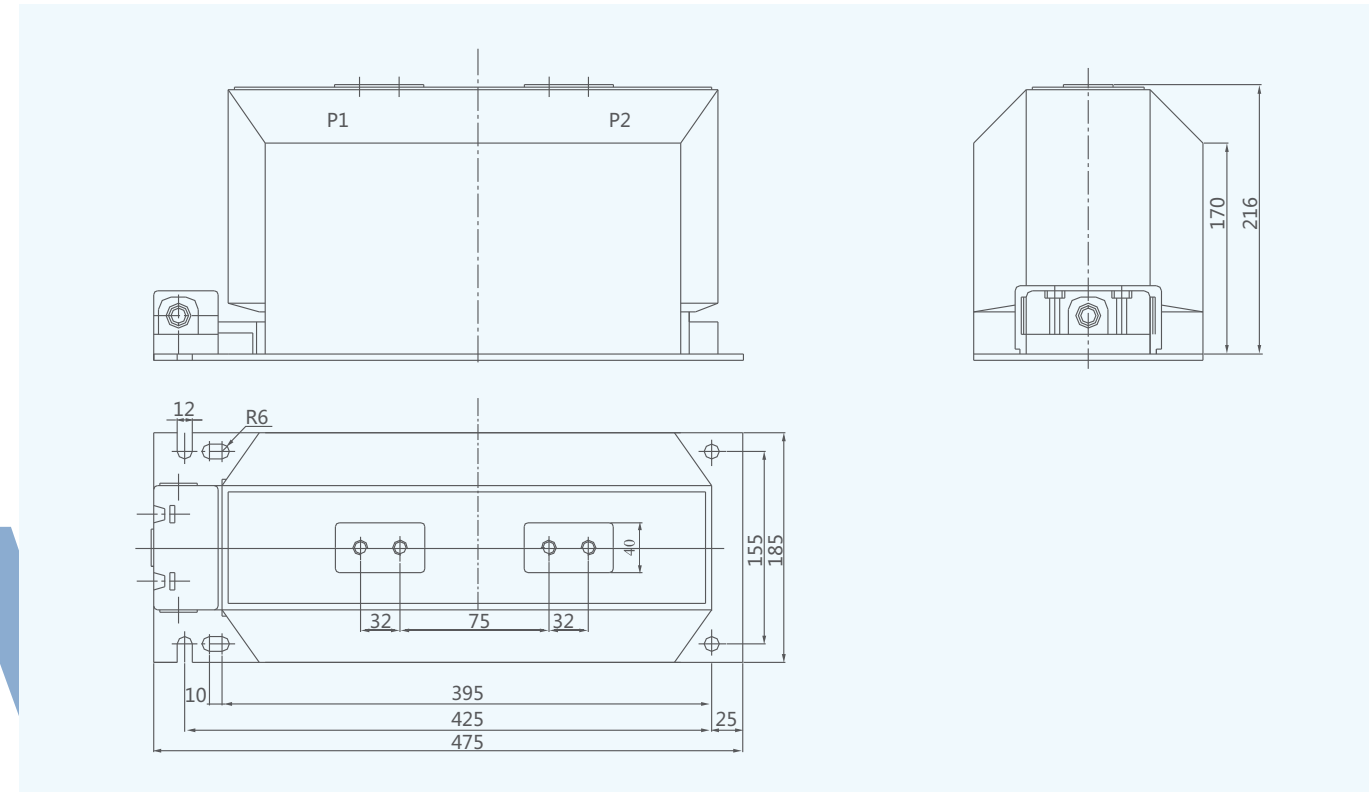
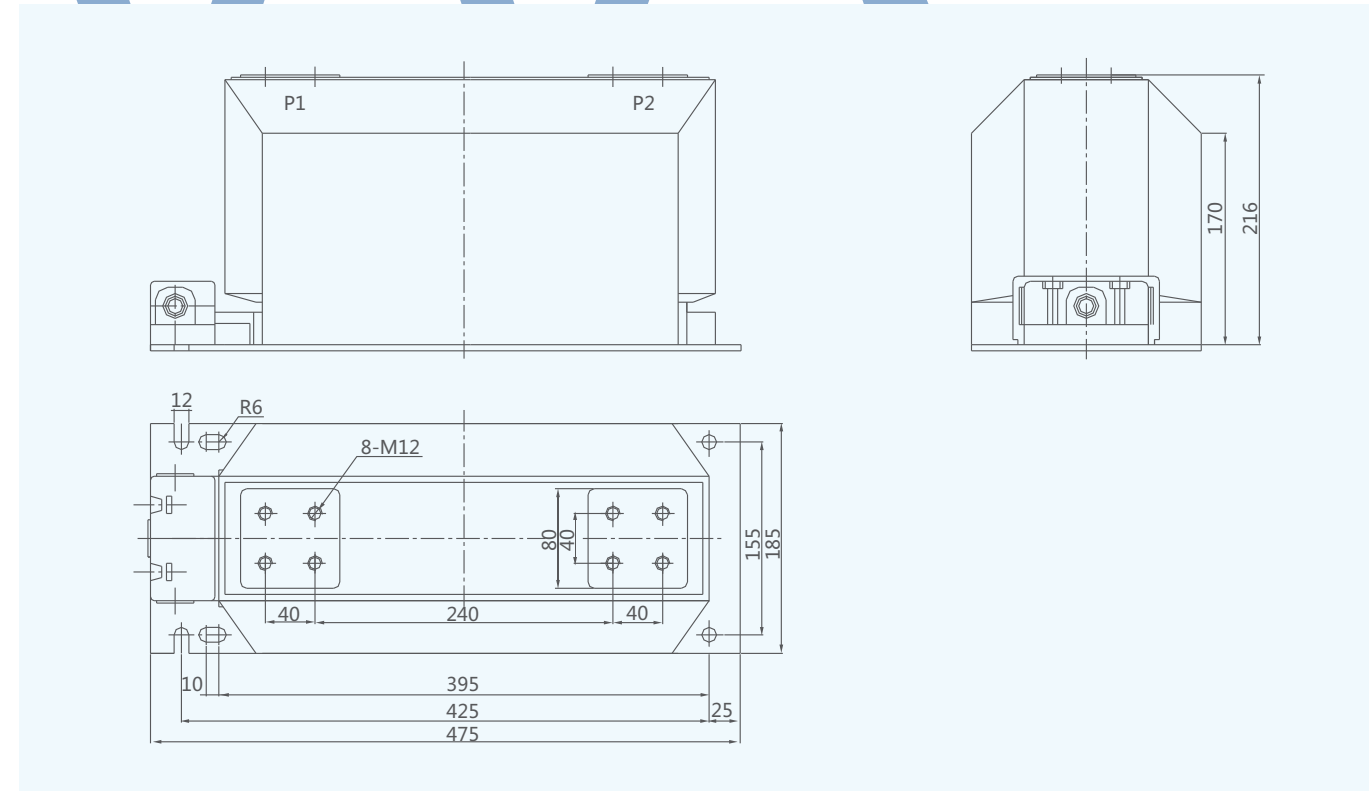
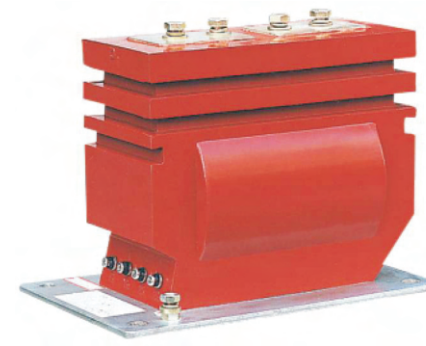


Fig 6 Overall and installation dimension of LZZBJ9-10A5G 1200-3000A current transformer

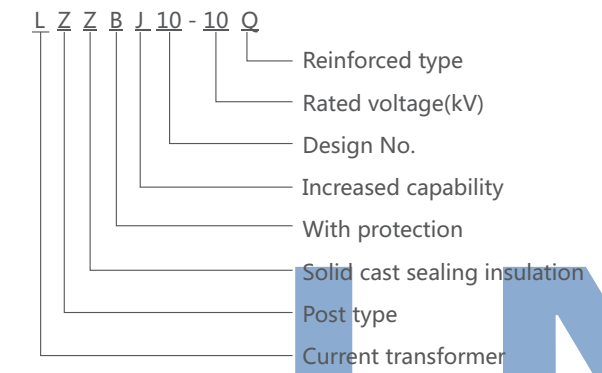


**General Introduction**

LZZBJ10-10Q series is all work-condition post type current transformer with epoxy casting whole sealing insulation, used for measurement of current and electric energy as well as relay protection in the AC circuit of rated frequency 50Hz and rated voltage 10kV.



**Model and Meaning**



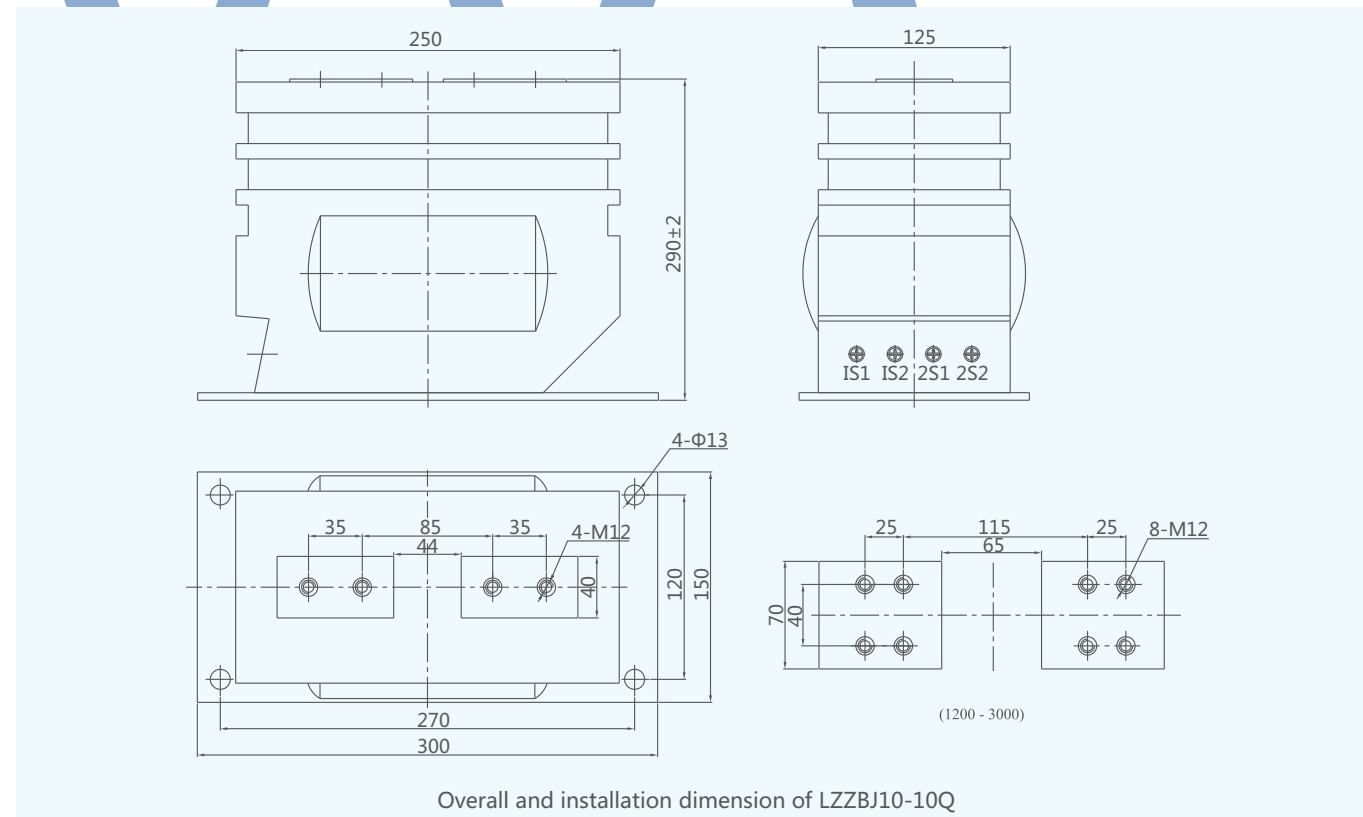
**Technical Specification**

1. The performance of products is conformed to IEC standard and GB1208-2006
2. Current Transformer.
3. Rated insulation level: 12/42/75kV
4. Rated frequency: 50Hz
5. Rated secondary current: 5A, 1A
6. Partial discharge level: In conformity to GB5583-85 standard, its partial discharge is not more than 20PC.

**Main Technical Data**

Rated primary current (A)	Accuracy class combination	Rated secondary output(VA)				Rated short-time thermal current (KA virtual value)	Rated dynamic stability current (KA peak)
		0.2S,0.2	0.5	10P10	10P15		
10	0.2S/10P 0.2/10P or 0.5S/10P 0.5/10P	10	15	20	15	2	5
15						3	7.5
20						4	10
30						6	15
40						8	20
50-60						21	52.5
50-60				45	112.5		
75-100				45	112.5		
150-200				63	130		
300,400,500				63	130		
300,400,500				80	160		
600-800				80	160		
1000,1200,1250				80	160		
1500-2000				100	100		
3000-3150				100	100		
1500-2000				100	100		
3000-3150	100	100					

**Outline and Mounting Dimensions**

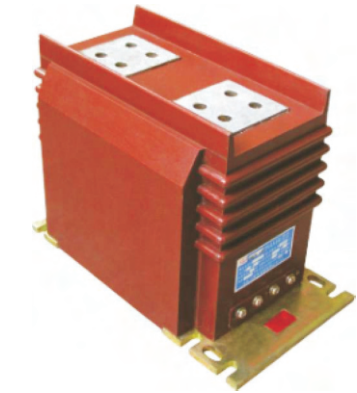
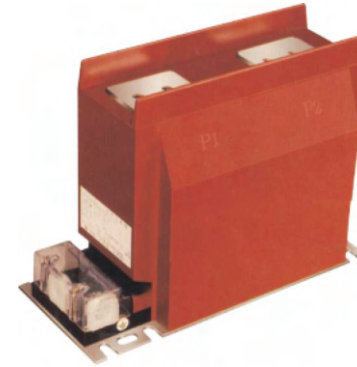


**General Introduction**

This series of current transformers is epoxy resin vacuum casting fully-enclosed support-type, they adopt advanced materials and technology, they are used for current, power measurement and relay protection indoors alternate power system with frequency 50-60Hz, rated voltage 10kV and below. This series of products has the newest series super precision, super dynamic and thermal stability, large-capacity, number of secondary winding is 2-4, can be arbitrarily composed by different needs.

**Technical Specification**

1. Rated insulation level: 10kV:12/42/75kV; 20kV:24/65/125kV
2. Power factor of load:  $\cos\varphi=0.8$ (lagging)
3. Rated secondary current: 5A(or 2A,1A)



**LZZBJ18-10/150b/2 Type**

Rated primary current (A)	1s thermal current (kA virtual value)	Dynamic standing current (kA peak)	Accuracy class combination (1S/2S)	Rated secondary output(VA)			
				0.2S	0.5	5P15 10P15	
20	2	5	0.2/0.5/10P10 0.2/0.5/5P10 0.5/0.5/10P10 0.2/0.2/10P10 0.5/0.5/5P10 0.2/0.2/5P10	10	10	15	
30	3	7.5					
40-50	5.4	13.5					
75	8.1	20.2					
100	10.8	27					
150	16.2	40.5					
200	24.3	60.7					
300	37.8	94.5					
400	48.6	121.5					
500	63	150					
600-630	63	150					
800-1000	100	250					
1200-1600	110	270					
2000	175	425					
					15		10

**LZZBJ18-10/185h/2 Type**

Rated primary current (A)	1s thermal current (kA virtual value)	Dynamic standing current (kA peak)	Accuracy class combination (1S/2S)	Rated secondary output(VA)				
				0.2S	0.2	0.5	5P10 10P10	5P15 10P15
10-40	200I th	250I th	0.2/0.2 0.2/0.5 0.2/10P 0.5/10P 0.2/5P 0.5/5P	10	10	15	20	10
50-100	250I th	625I th						
150-300	45	100						
400-500	100	250						
600-1000	140	350						
1200-1600	170	425						
2000-3150	240	600						
					15	20	30	15



LZZBJ18-10/150b/4 Type

Rated primary current (A)	1s thermal current (kA virtual value)	Dynamic standing current (kA peak)	Accuracy class combination (1S/2S)	Rated secondary output(VA)					
				0.2S	0.2	0.5	5P10 10P10	5P15 10P15	5P20 10P20
20-150	150Ith	375Ith	0.2/0.2 0.2/0.5 0.5/0.5 0.2/10P10 0.5/10P10 0.5/10P10	10	10	15	15	10	
200	36	90							
300	45	100							
400-500	63	150							
600-630	63	150							
800-1000	100	250							
1200-1600	110	270							
2000	175	425			15		10		
2500	175	425				15			

LZZBJ18-10/150b/4 Type

Rated primary current (A)	1s thermal current (kA virtual value)	Dynamic standing current (kA peak)	Accuracy class combination (1S/2S)	Rated secondary output(VA)					
				0.2S	0.2	0.5	5P10 10P10	5P15 10P15	5P20 10P20
20-150	150Ith	375Ith	0.2(S)/0.2(S) 0.5/0.5 0.2(S)/10P(5P) 0.5/10P(5P)	10	10	15			15
200	36	90							
300	45	100							
400-500	63	150							
600-630	63	150							
800-1000	100	250							
1200-1600	110	270							
2000	175	425			15	20		15	
2500	175	425					15		

Model LZZBJ18-10/185h/4 type thermal standing current

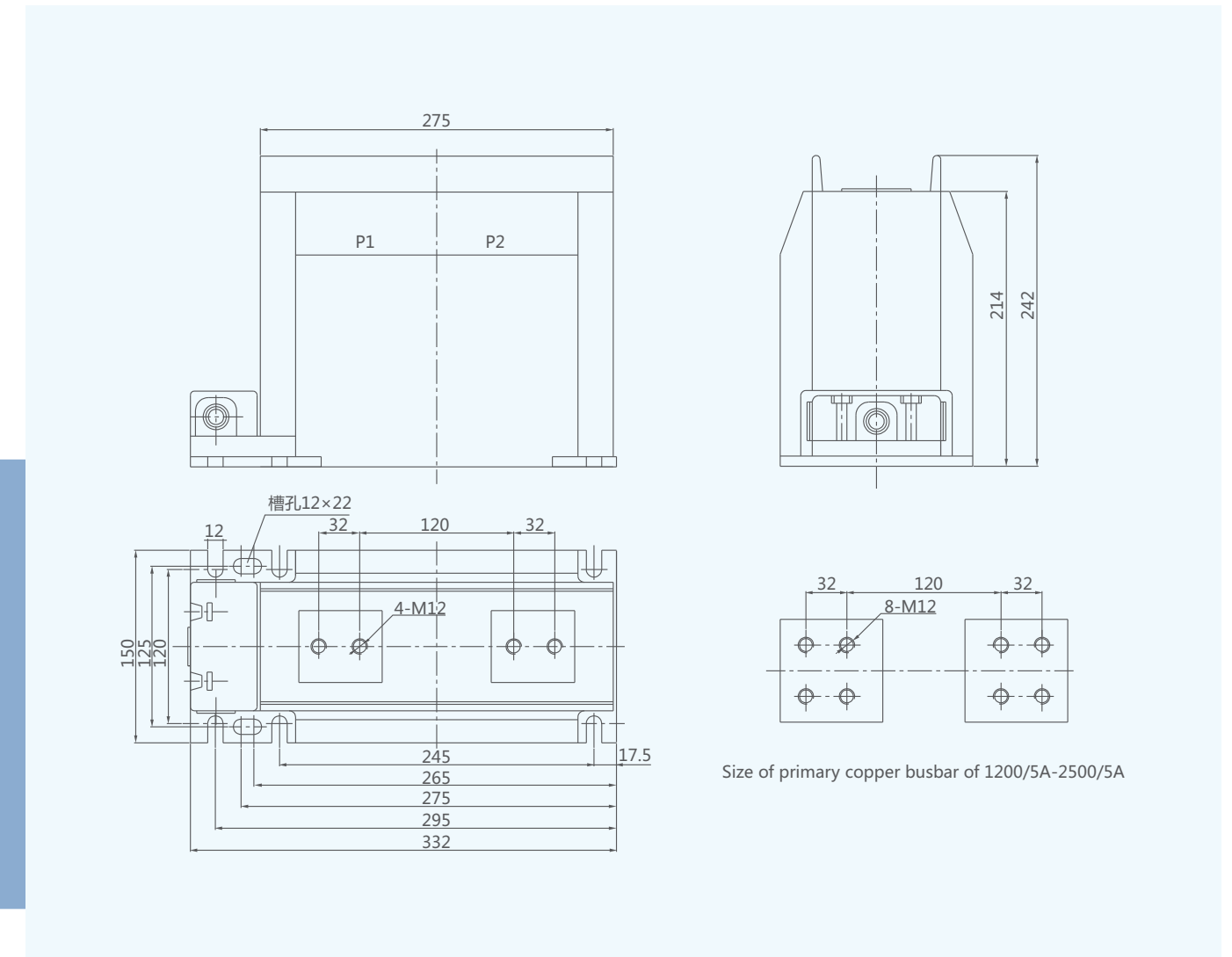
Rated primary current (A)	10-40	50-100	150-300	400-500	600-1000	1200-1600	2000-3150
1s thermal current (kA virtual value)	200Ith	250Ith	45	100	140	170	240
Dynamic standing current (kA peak)	500Ith	625Ith	100	250	350	425	600

Model LZZBJ18-10/185h/4 combination of accuracy class and corresponding secondary output

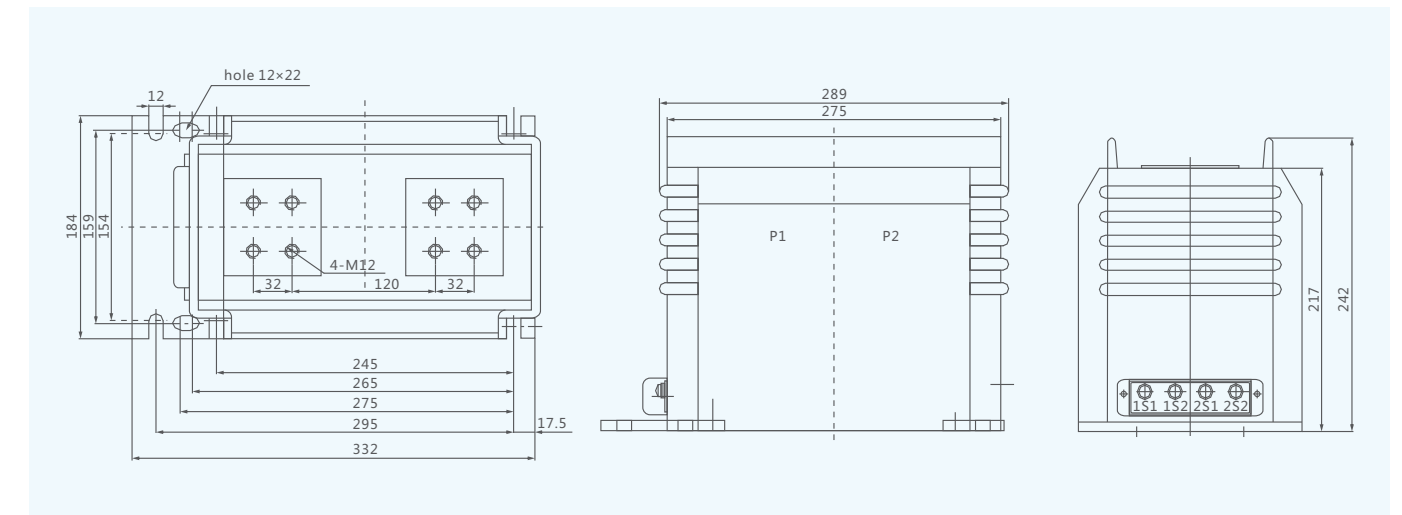
Accuracy class combination	10-200A						300-600A						800-1250A						800-1250A					
	0.2 (S)	0.2	0.5	10P 10	10P 15	10P 20	0.2 (S)	0.2	0.5	10P 10	10P 15	10P 20	0.2 (S)	0.2	0.5	10P 10	10P 15	10P 20	0.2 (S)	0.2	0.5	10P 10	10P 15	10P 20
0.2(S)/10P 0.5/10P 0.2(S)/0.2(S)/0.5/0.5	10	10	20	40	30	20	10	10	20	40	30	20	10	15	20	60	40	30	10	15	20	60	40	30
0.2(S)/0.5/10P	10	10	15	30	20	15	10	10	15	40	30	20	10	15	20	50	40	30	10	15	20	50	40	30
0.2(S)/10P/10P 0.5/10P/10P	10	10	15	20	15		10	10	15	30	20		10	15	15	30	20	15	10	15	15	50	30	20
0.2(S)/0.5/10P/10P	10	10	15	15			10	10	15	15			10	15	15	20	15		10	15	15	20	15	
0.2/0.2/0.5/10P	10	10	15	15			10	10	15	15			10	15	15	30	20		10	15	15	30	20	

Single Ratio Wiring Diagram

LZZBJ18-10/150b/2 type(equivalent to AS12/150b/2S)

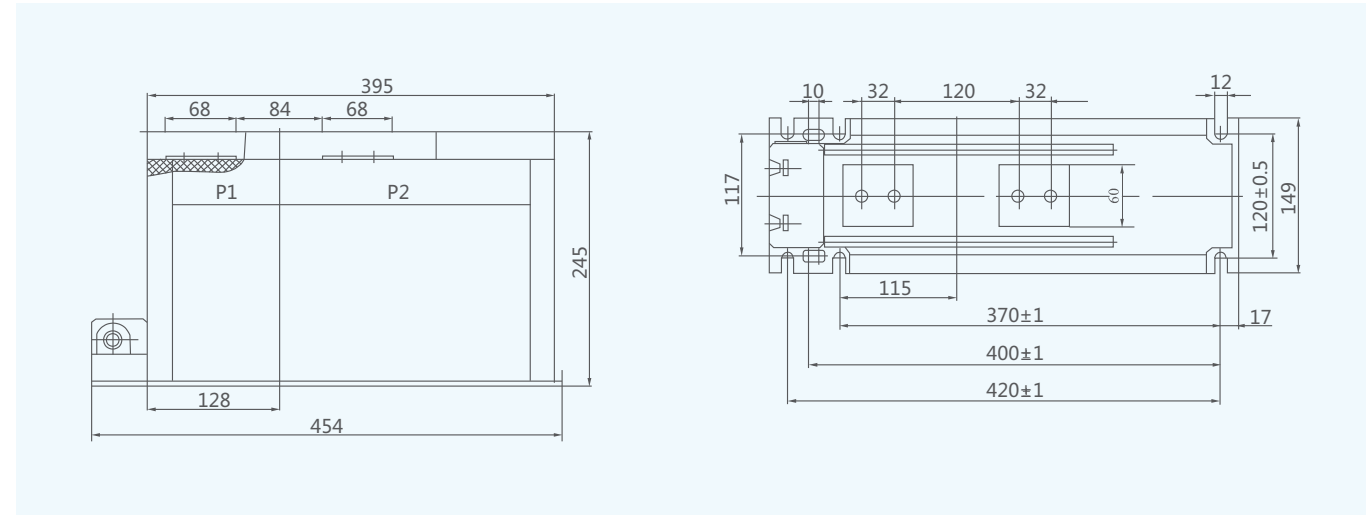


LZZBJ18-10/185h/2 type(equivalent to AS12/185h/2S)

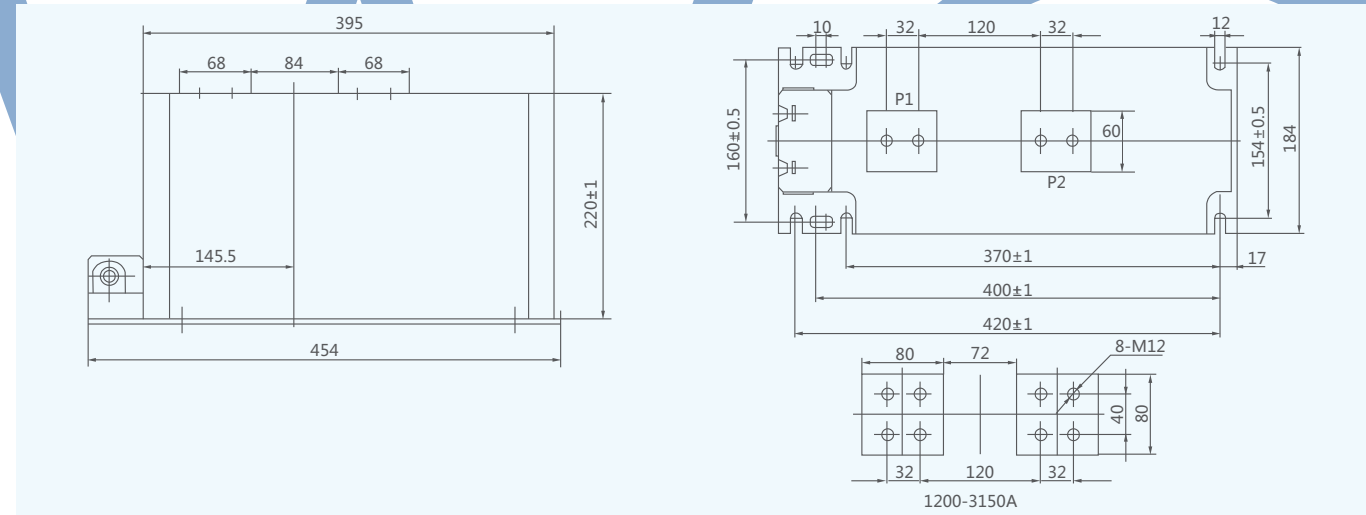


Single Ratio Wiring Diagram

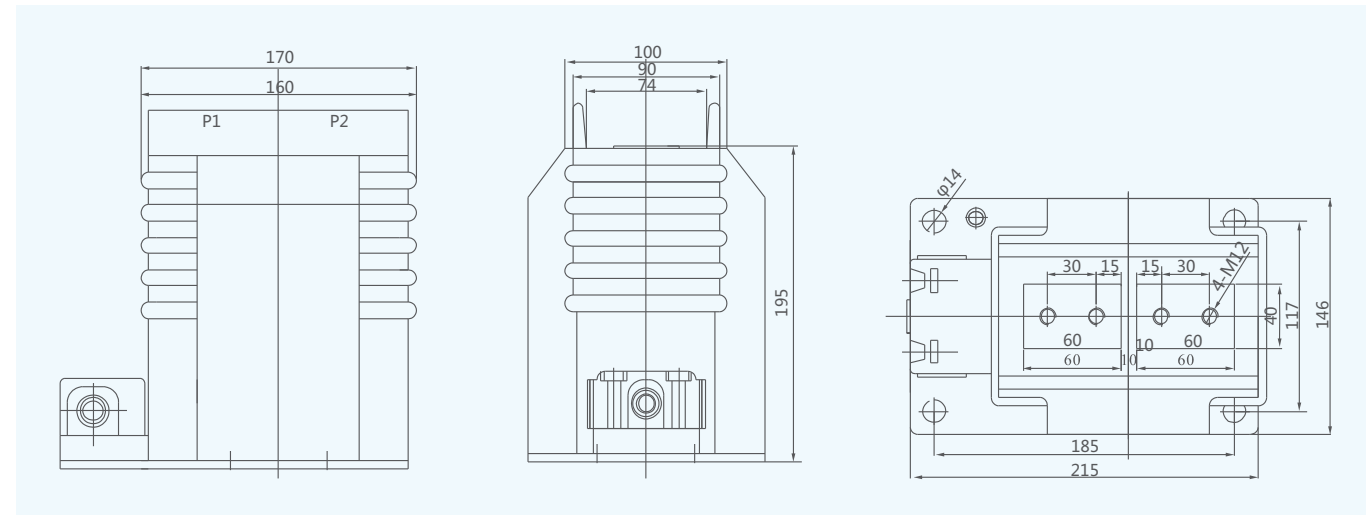
LZZBJ18-10/150b/4 type(equivalent to AS12/150b/4S)



LZZBJ18-10/185h/4 type(equivalent to AS12/185h/4S)



LZZBJ18-10 Single-winding mutual inductance electrical

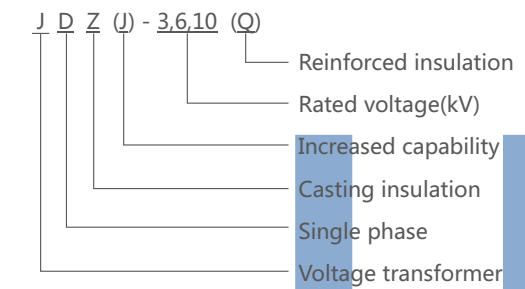


General Introduction

JDZ3-3,6,10(Q) type single-phase double coil voltage transformer of epoxy casting insulation for indoor device use, is used for measurement of voltage and electric energy, relay protection in the AC circuit of rated frequency 50Hz as well as other control device power. (refer to figure 1 wiring diagram)

JDZ(J)-3,6,10(Q) type single-phase double coil voltage transformer of epoxy casting insulation for indoor device use, is used for measurement of voltage and electric energy, relay protection in neutral non-direct earthing system of rated frequency 50Hz as well as for other control device power(refer to figure 2 wiring diagram)

Model and Meaning

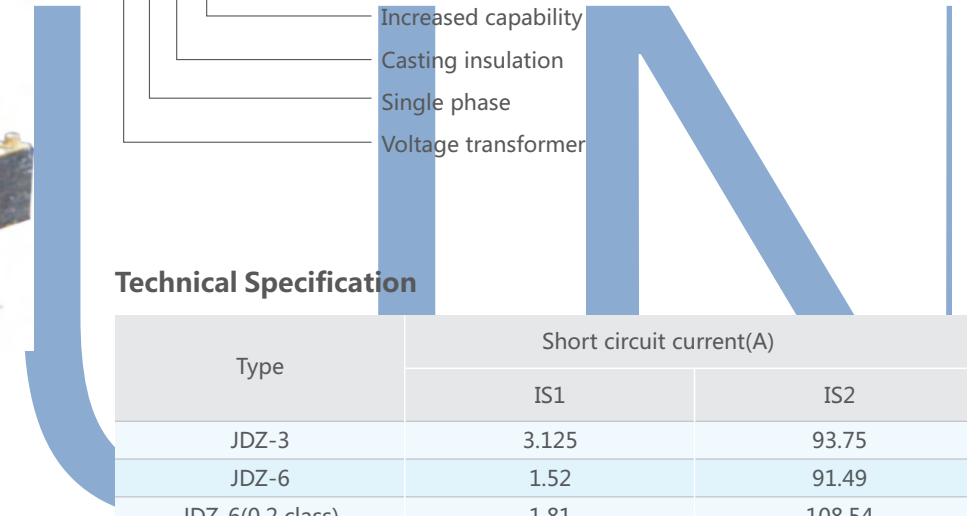


Technical Specification

Type	Short circuit current(A)	
	IS1	IS2
JDZ-3	3.125	93.75
JDZ-6	1.52	91.49
JDZ-6(0.2 class)	1.81	108.54

Type	Short circuit current(A)	
	IS1	IS2
JDZ-10	1.30	130
JDZ-10(0.2 class)	1.32	132
JDZJ-3	2.15	64.78

Type	Short circuit current(A)	
	IS1	IS2
JDZJ-6	1.32	79.3
JDZJ-6	0.97	97
JDZJ-10(0.2 class)	0.97	97



Type	Rated voltage ratio(V)	Rated secondary output(VA)							Ultimate output (VA)	Rated insulation level(VA)	Exterior creepage distance(mm)
		0.2 class	0.5 class	1 class	3 class	0.2/0.2	0.5/0.5	6p			
JDZ-3(Q)	1000/100	20	30	50	80	20/20	30/30		200	3.6/23/40	205
JDZ-6(Q)	2000/100	30	50	80	200	20/20	30/30		400	7.2/32/60	250
JDZ-10(Q)	3000/100		80	150	300	25/25	50/50		500	12/42/75	250
JDZJ-3(Q)	$\frac{3000}{\sqrt{3}} / \frac{100}{\sqrt{3}} / \frac{100}{\sqrt{3}}$		30	50	80			50	200	3.6/23/40	205
JDZJ-6(Q)	$\frac{6000}{\sqrt{3}} / \frac{100}{\sqrt{3}} / \frac{100}{\sqrt{3}}$	20	50	80	200			50	400	7.2/32/60	205
JDZJ-10(Q)	$\frac{10000}{\sqrt{3}} / \frac{100}{\sqrt{3}} / \frac{100}{\sqrt{3}}$	20	50	80	200				400	12/42/75	250

**Outline and Mounting Dimensions**

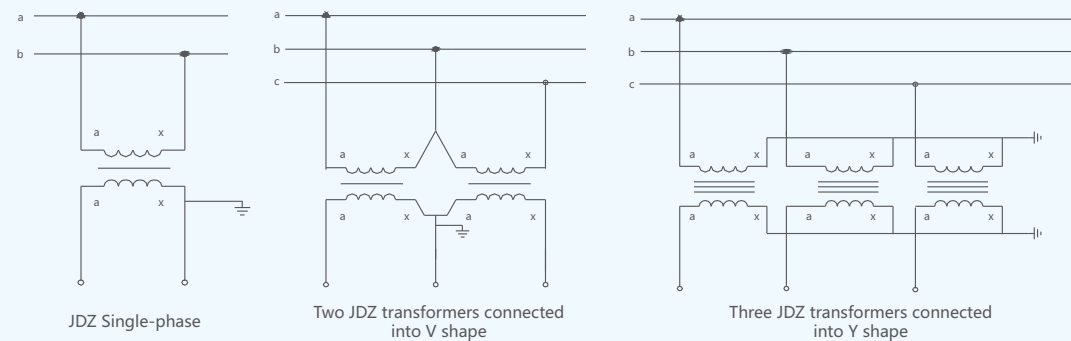


Diagram 1 JDZ-3,6,10(q) wiring diagram

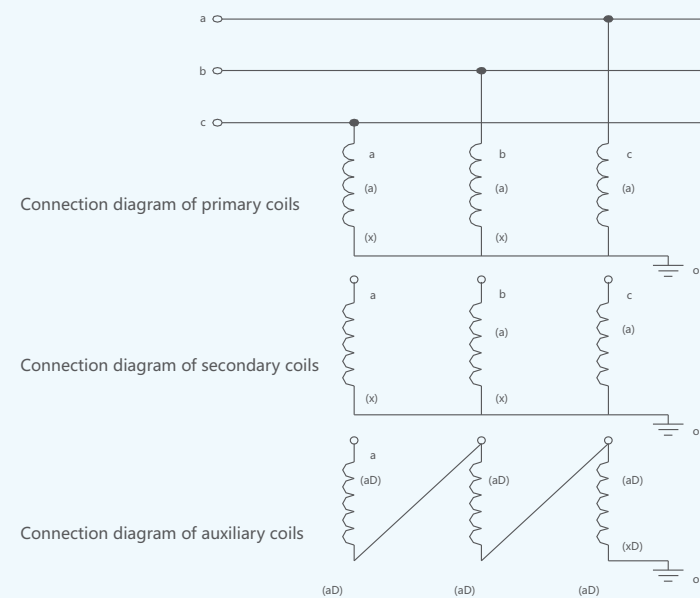
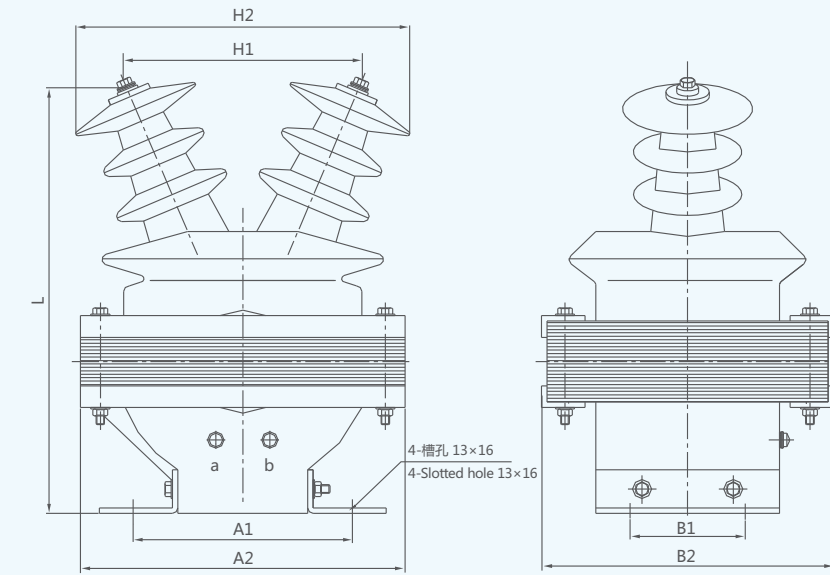


Diagram 1 JDZJ-3,6,10(q) wiring diagram

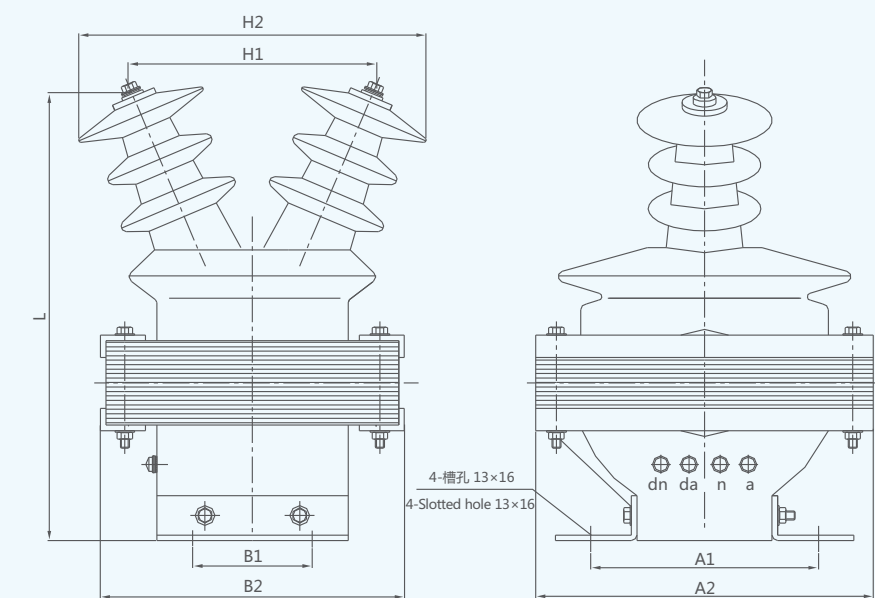
**Outline and Mounting Dimensions**

JDZ-3,6,10(Q)



Type	H1 (mm)	H2 (mm)	L (mm)	A1 (mm)	A2 (mm)	B1 (mm)	B2 (mm)
JDZ-10(Q)	180	250	305	170	236	90	207
JDZ-3,6(Q)	160	215	275	170	220	90	190

JDZJ-3,6,10(Q)



Type	H1 (mm)	H2 (mm)	L (mm)	B1 (mm)	B2 (mm)	A1 (mm)	A2 (mm)
JDZJ-10(Q)	180	250	305	90	207	170	238
JDZJ-3,6(Q)	160	215	275	90	190	170	220



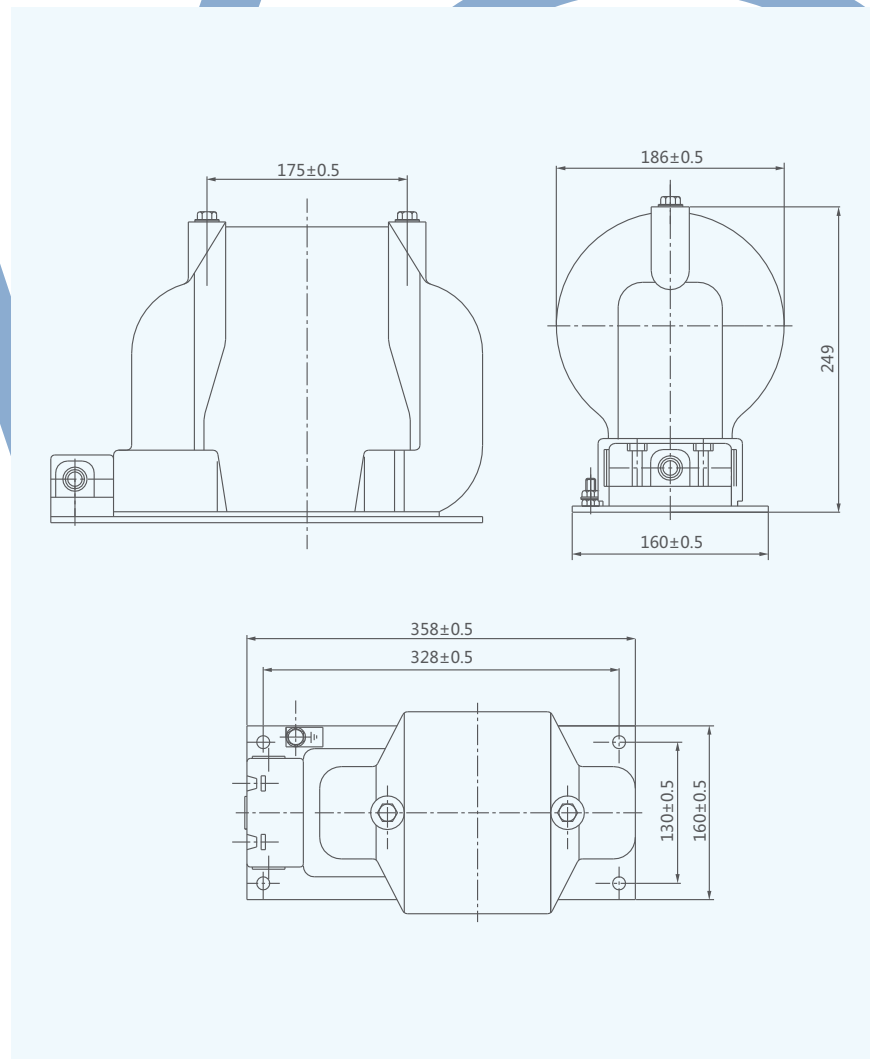
**Technical Specification**

The voltage transformer is in accordance with GB1207 and IEC186 standards...

Type	Rated frequency (Hz)	Voltage ratio (V)	Accuracy class	Rated output (VA)	Ultimate output (VA)	Rated insulation level(kV)
JDZ8-3	50	3000/100	0.2 0.5	40 80	600~1000	3.6/24/40
JDZ8-6	50	6000/100	0.2 0.5	40 80	600~1000	7.2/32/60
JDZ8-10	50	10000/100	0.2 0.5	40 80	600~1000	12/42/75

Note: If user's data go beyond the above-mentioned scope, they may be subjected to an agreement between manufacturer and purchaser. Rated put and its relative accuracy class are alternative.

**Outline and Mounting Dimensions**



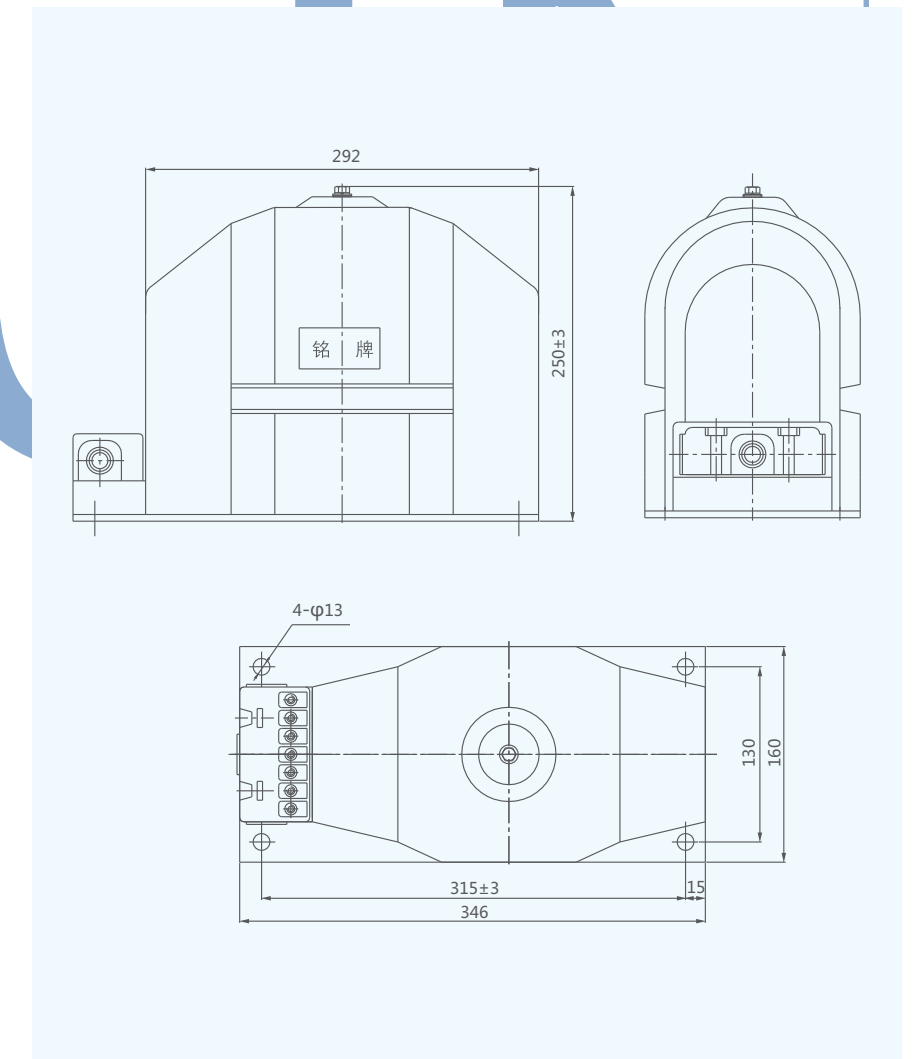
**Technical Specification**

The voltage transformer is in accordance with GB1207 and IEC186 standards...

Type	Rated frequency (Hz)	Voltage ratio (V)	Accuracy class	Rated output (VA)	Ultimate output (VA)	Rated insulation level(kV)
JDZX8-3	50	$\frac{3000}{\sqrt{3}} / \frac{100}{\sqrt{3}} / \frac{100}{\sqrt{3}}$	0.2/6P 0.5/6P	30/100 50/100	500	3.6/24/40
JDZX8-6	50	$\frac{6000}{\sqrt{3}} / \frac{100}{\sqrt{3}} / \frac{100}{\sqrt{3}}$	0.2/6P 0.5/6P	30/100 50/100	500	7.2/32/60
JDZX8-10	50	$\frac{10000}{\sqrt{3}} / \frac{100}{\sqrt{3}} / \frac{100}{\sqrt{3}}$	0.2/6P 0.5/6P	30/100 50/100	500	12/42/75

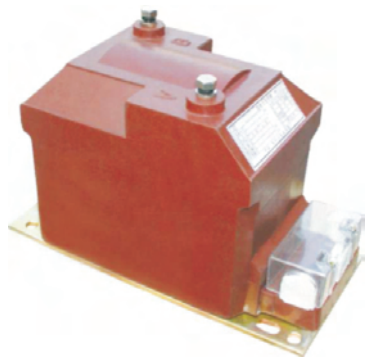
Note: If user's data go beyond the above-mentioned scope, they may be subjected to an agreement between manufacturer and purchaser. Rated put and its relative accuracy class are alternative.

**Outline and Mounting Dimensions**

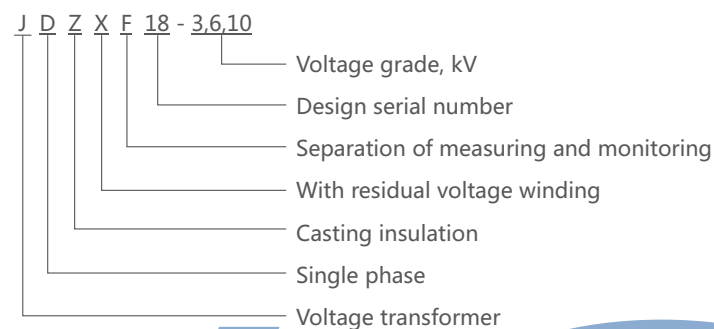


### General Introduction

The voltage transform is the type of cast resin insulation and full enclosed, used for electric energy metering, voltage control and relay protection in the power systems of rated voltage 3kV, 6kV, and 10kV or below. The products are in accordance with IEC60044 and GB1207-2006 Voltage Transformer.



### Model and Meaning



### Technical Specification

1. Technical data form.
2. Partial discharge is in line with GB1207-2006 voltage transformer.
3. Anti-pollution class: see fig.

### Technical Parameter

Type	Rated voltage ratio(V)	Rated output(VA)				Ultimate output(VA)	Rated insulation level(kV)
		0.2	0.5	1	6P		
JDZ18-3 RZL10	3000/100						3.6/25/40
JDZ18-6 RZL10	6000/100	15	30	60		500	7.2/32/60
JDZ18-10 RZL10	10000/100						12/42/75
JDZF18-3	3000/100/100						3.6/25/40
JDZF18-6	6000/100/100	10	10	30		2×250	7.2/32/60
JDZF18-10	10000/100/100						12/42/75
JDZX18-3 REL10	3000/√3/100/ √3/100/3						3.6/25/40
JDZX18-6 REL10	6000/√3/100/ √3/100/3	15	30		100	200	7.2/32/60
JDZX18-10 REL10	10000/√3/100/ √3/100/3						12/42/75
JDZXF18-3	3000/√3/100/ √3/100/√3/100/3						3.6/25/40
JDZXF18-6	6000/√3/100/ √3/100/√3/100/3	10	10		60	200	7.2/32/60
JDZXF18-10	10000/√3/100/ √3/100/√3/100/3						12/42/75

### Outline and Mounting Dimensions

Chart 2 Outline and installation size of JDZ10-6,10(RZL)

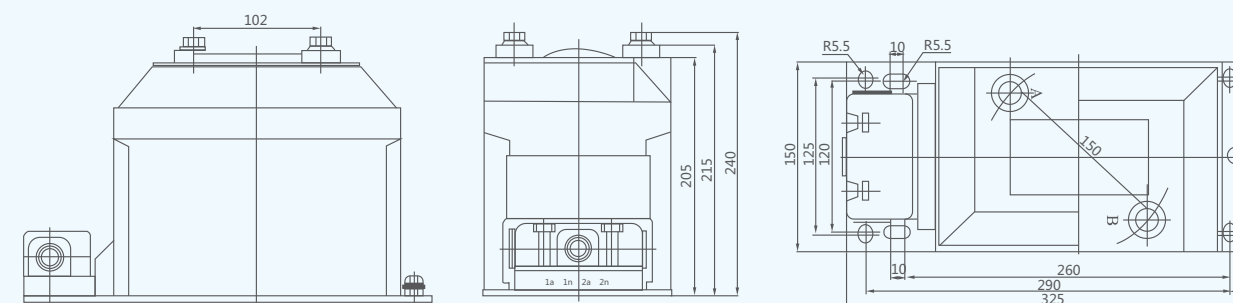


Chart 3 Outline and installation size of JDZX10-6,10(REL10)

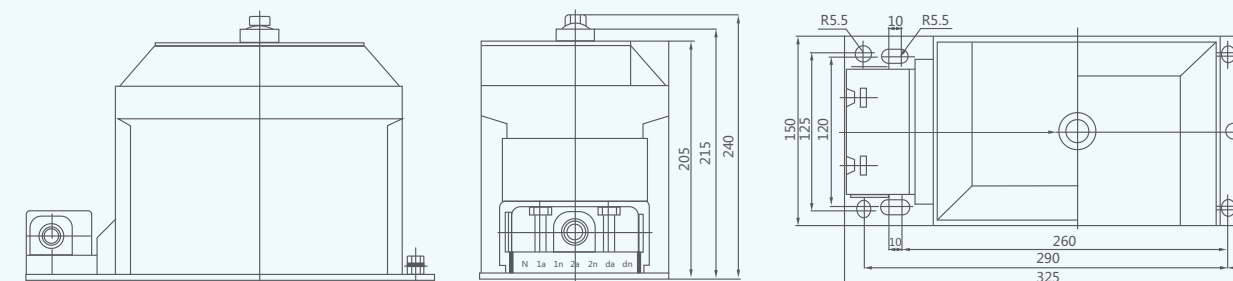
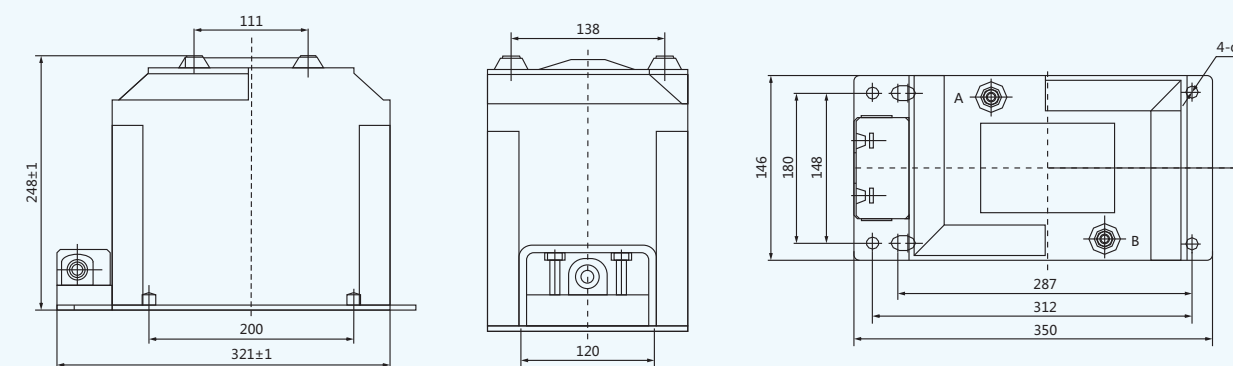


Chart 1 Outline and installation size of JDZ(F)18-6,10B







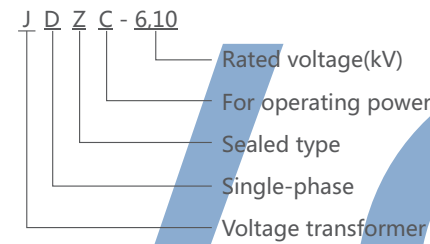
### General Introduction

JDZC-6,10 type voltage transformer is the indoor device of epoxy resin cast insulation, applied to electric measurement and electric protection in the electric system of rated frequency 50Hz and rated voltage 10kV.

### Structure Features

This transformer is the type of full insulation, its primary winding two terminals that are checked according to full insulation level, distributed on both sides of casting body top. It is mainly made up of three part; iron core, secondary winding and primary winding which are all encapsulated in the epoxy resin casting body, featured with stable electric performance and perfect damp proof property.

### Model and Meaning



### Working Conditions

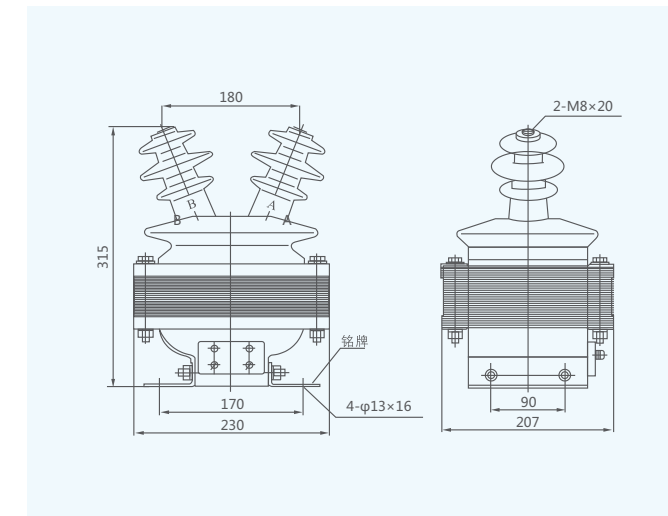
1. Equipment category: Indoor
2. Environmental temperature: Max temperature +40°C, Min temperature -5°C
3. There shall not be stains and corrosive or explosive mediums that seriously affect the insulation of transformer in the air.

### Technical Specification

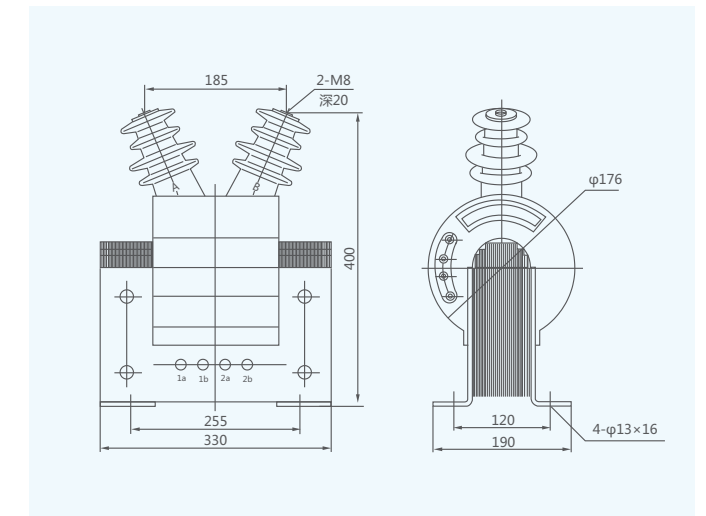
Type	Rated voltage ratio(V)	Rated secondary output(VA)		Accuracy class combination	Rated insulation level(kV)
		1a1b(100V)	2a2b(220V)		
JDZC-10	60000/100/220	30	700	0.5/3	7.2/32/60 12/42/75
		50	800,1000		
		80	2000,3000		

### Outline and Mounting Dimensions

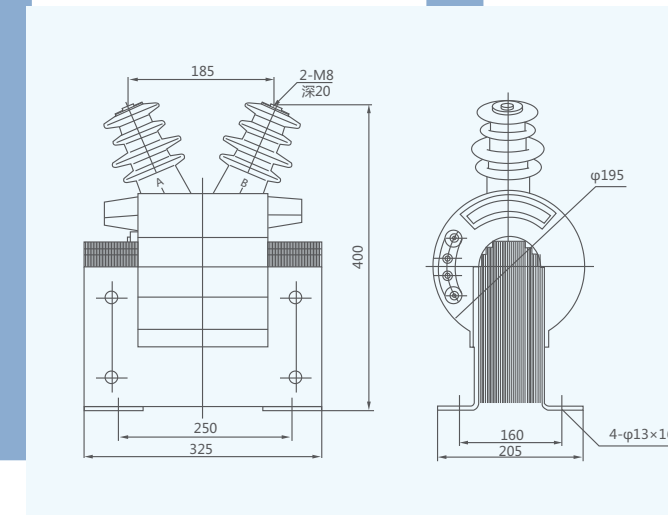
700VA



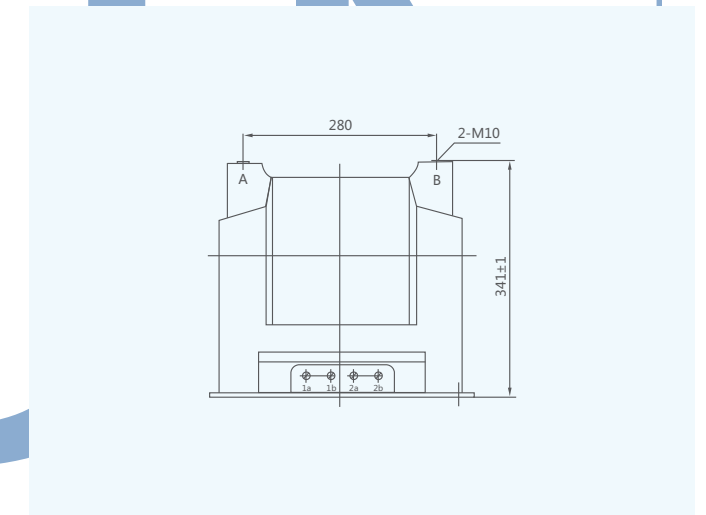
800-1000VA



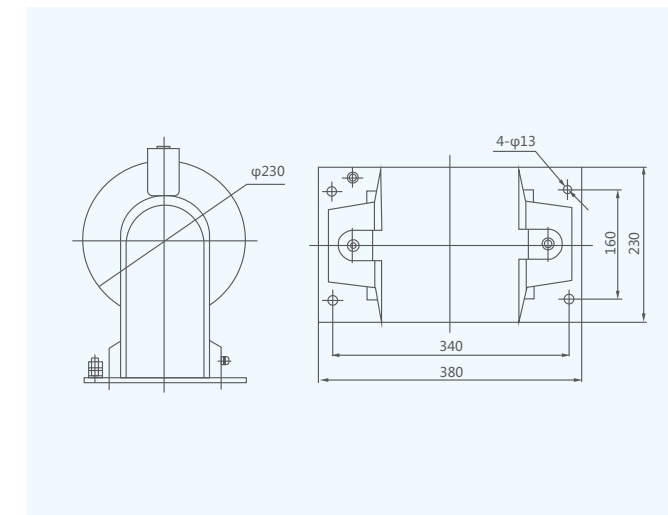
2000VA



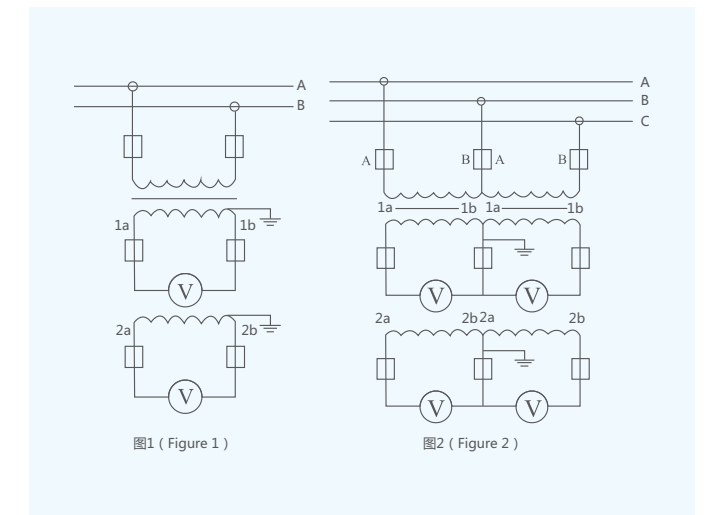
3000VA

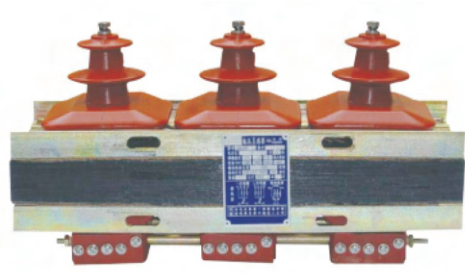


3000VA



Wiring diagram

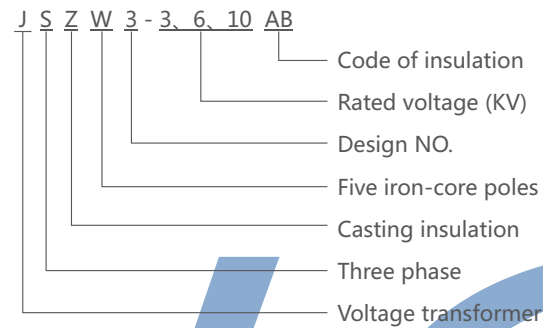




**General Introduction**

JSZW3-10A, B type voltage transformer is semi-enclosure casting with epoxy resin, which mainly used for measuring voltage or electric energy and protect relay in power system with frequency 50 HZ and rated voltage 10KV and the neural point is not effectively grounded. The product has two different types according to insulation method: type A and type B.

**Model and Meaning**



**Structure Features**

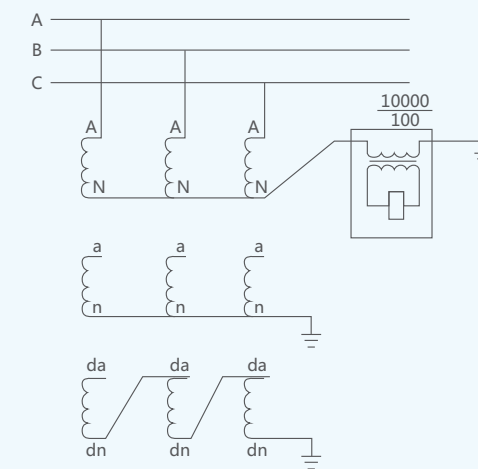
This model voltage transformer is semi-casting type, with small size and good climate adaptability. The iron-core of the transformer applies core type side-iron structure, and made of high-quality silicon steel plate by cold rolling and exposing in the air, the primary winding, secondary winding and residual voltage winding wound onto the iron-core concentrically and cast with epoxy resin, the three phases cast and fixed together, the primary winding and terminal A is fully insulated and terminal N is not fully insulated. The wiring please refers to Diagram 1. It has two types: type A and type B according to insulation, type A is installed on the side and the insulation hole is on the iron-core clamp, type B has a base for installation.

**Technical Specification**

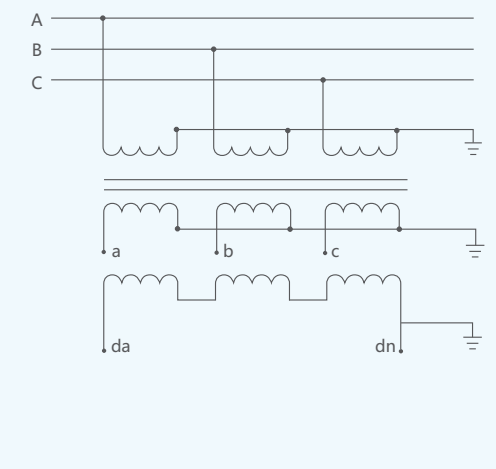
1. Standard: GB1207-2006 voltage transformer
2. Technical parameter form
3. The creepage of product surface comply with Grade II of pollution.
4. Other technical parameter please refers to table below:

Type	Rated voltage ratio (V)	Accuracy class combination	Rated output (VA)					Ultimate output (VA)	Voltage withstand test (KV)	
			0.2	0.5	1	3	6		Inductive voltage withstand of primary winding	voltage withstand of power frequency of secondary winding
JSZW3-3	3000/√3/100/√3/100/3	0.5/6P	90	150	300	75	600	18	2	
JSZW3-6	6000/√3/100/√3/100/3	1/6P	150	240	600	100	1000	23	2	
JSZW3-10	10000/√3/100/√3/100/3	3/6P	150	240	600	100	1000	32	2	

**Outline and Mounting Dimensions**

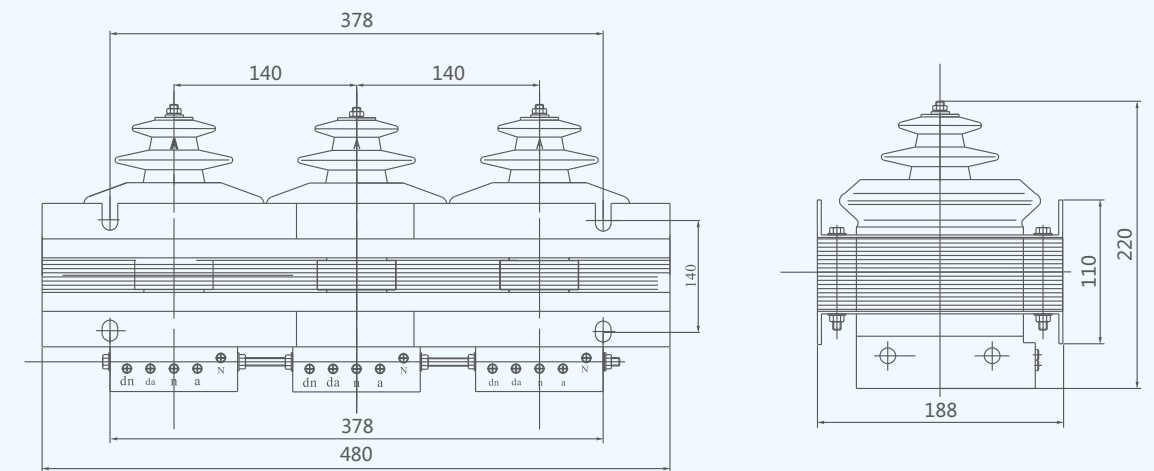


Wiring diagram for model JSZW-3,6,10 anti-resonance three-phase circuit



Regular wiring diagram for model JSZW-3,6,10

JSZW-3,6,10KV





Technical Specification

Type	Voltage class (kA)	Rated current ratio(A)	cosφ=0.8 Measurement class 0.2, capacity(VA)	Capacity for class 1 relay protection	Weight (kg)
LJW-10	10	5~400/5	10~15	without relay protection or monitoring	21
LJW-35	35	5~600/5	30~50	without relay protection or monitoring	64
LJWD-10	10	5~400/5	10~15	15~(30)	28
LJWD-35	35	5~600/5	30~50	30~(50)	83

Outline and Mounting Dimensions

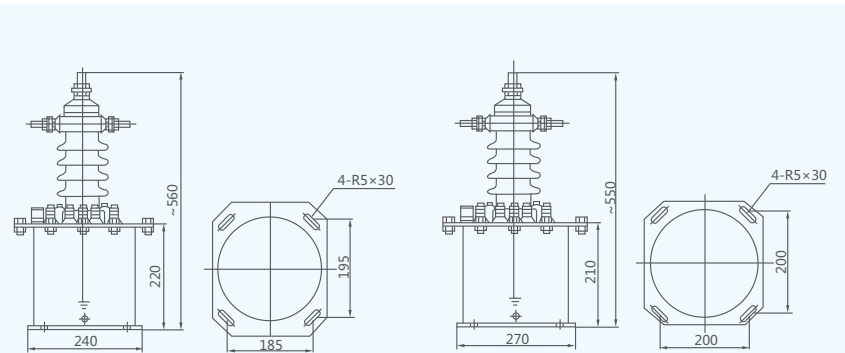


Fig 1 Overall and installation dimension of LJW~10(Single-class)

Fig 2 Overall and installation dimension of LJWD~10(Double-class)

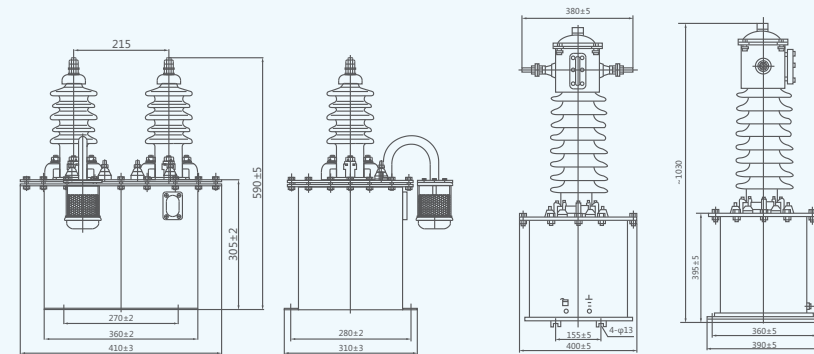
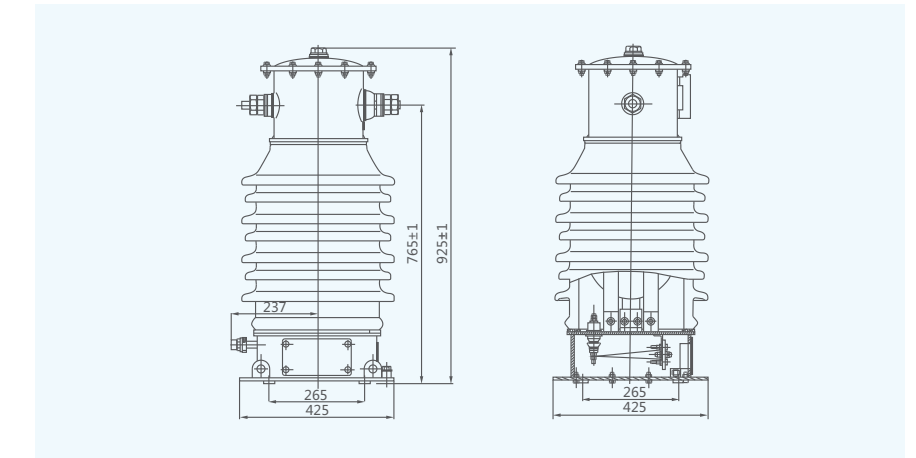


Fig 3 Overall and installation dimension of LJW(D)-10

Fig 4 Overall and installation dimension of LJW(D)-35

Outline and Mounting Dimensions



I <sub>1n</sub>	M(mm)	a(mm)
15~400	M22×1.5	40
600	M27×1.5	50
800~1000	M30×1.5	60
1200~1500	outlet bank	

Technical Specification

Table 2 Grade 10P accurate limiting value factor, max. Multiple of secondary current and secondary winding impedance for LCW-35, LCWD-35, LCWQ-35, LCWQD-35 current transformer.

Type and accuracy gradecombination	Rated primary current ratio(A)	Accuracy class	cosφ=0.8 Rated secondary load(Ω)	Grade 10P accurate limit factor	Max. Secondary current multiple (at rated secondary load)	Secondary winding impedance(Ω)
LCW-35	15~1000	0.2S	1	28	35	0.7
		0.5	2	5	12	0.5
		10P	2			
LCWD-35 LCWQD-35	15~750,1000	0.2S	1.0	15	25	0.5
		0.5	1.2	15	28	0.8
		10P	1.2			
LCW-35	15~600	0.2S	1.0	15	25	0.5
		0.5	1.2	30	35	0.56
		10P	1.2			
LCWD-35 LCWQD-35	15~600	0.2S	0.8	35	45	0.45
	750	0.2	0.8	35	50	0.67
	1000	0.5 10P	0.8	50	55	0.94

Table 3 Short circuit standing current of LCW-35,LCWD-35,LCWQ-35,LCQD-35 current transformer.

Type	Rated primary current ratio (A)	1S thermal standing current (KA effective value)	Dynamic standing current (Peak value)(Multiple)
LCW-35	15~1000	90I <sub>n</sub>	150I <sub>n</sub>
LCWD-35	15~750	65I <sub>n</sub>	100I <sub>n</sub>
LCWD-35	1000	65I <sub>n</sub>	150I <sub>n</sub>
LCWD-35/LCWQD-35	15~600	65I <sub>n</sub>	100I <sub>n</sub>

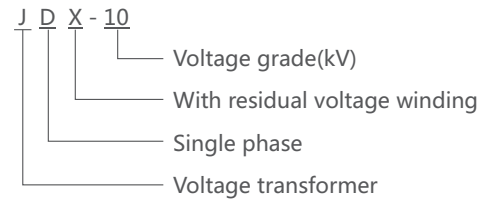
Mass: Total 270kg, Oil 40kg.



**General Introduction**

This voltage transformer is single phase, oil-immersed product for indoors. It has many merits, such as big capability, high precision, etc. There are three secondary windings, they are used as measurement, monitoring, zero-sequence protection. The measuring and monitoring windings are separated. Fully exert their functions. Not interfere each other.

**Model and Meaning**



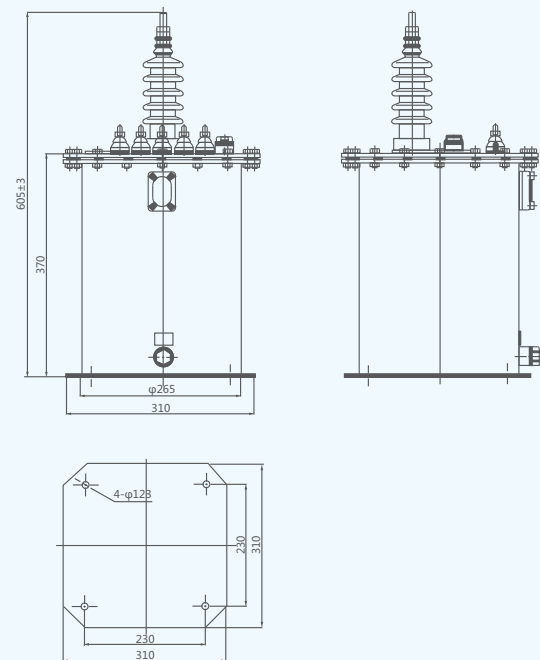
**Structure Features**

The voltage transformer is single phase and oil immersed structure. The iron core is piled up of the silicon steel sheet. The body is fixuped bellow the core clip. The winding is reeled with concentric type. There are different insulated levels of two high voltage ends. The terminal of "A", high voltage insulation, is led out from porcelain bushing. The terminal of "N", being earthed, is led out from small porcelain sheath.

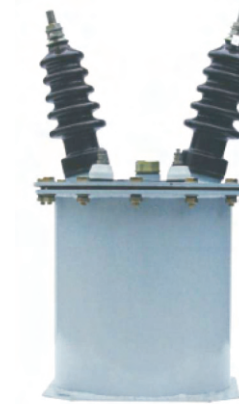
**Technical Specification**

Rated voltage ratio(V)	Accuracy class and rated output(A)			Ultimate output (VA)	Rated insulation level(kV)
	0.2	0.5	3P		
10000/√3/100/√3/100/√3/100/3	20	25	50	500	12/42/75

**Outline and Mounting Dimensions**



Overall and installation dimension drawing of JDX-6, 10



**Technical Specification**

Type	Rated voltage ratio(V)	Rated output(V)				Max. capacity (VA)	Test voltage (kV)
		0.2 class	0.5 class	1 class	3 class		
JDJ-6	3000/100 6000/100	20 30	30 50	50 80	200	240 400	24 32
JDJ-10	10000/100	30	80	150	320	640	42

**Outline and Mounting Dimensions**

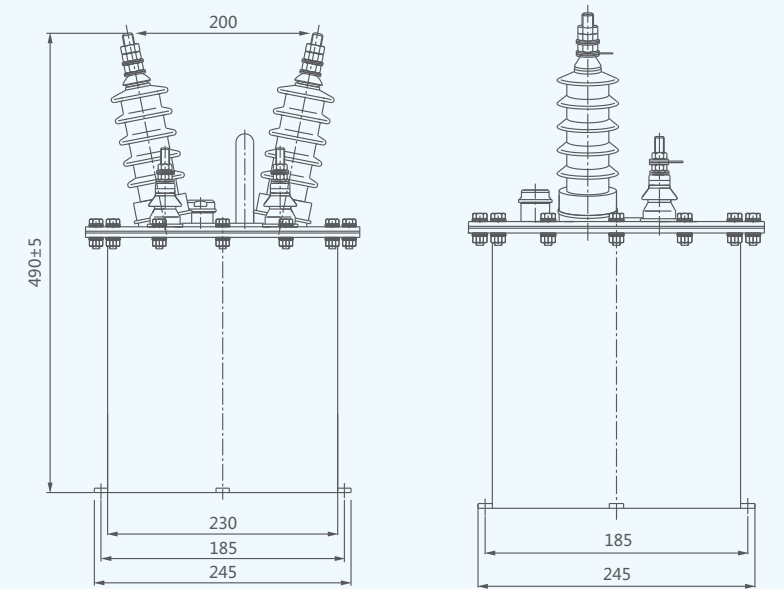


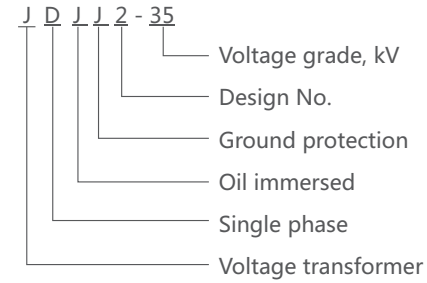
Fig 3 Overall and installation dimension of JDJ-6,10

### General Introduction

The voltage transformer of the type JDJ(J)2-35 is single phase and oil-immersed product. It is used for electric energy metering, voltage control and relay protection in the electric system of rated frequency 50Hz or 60Hz and rated voltage 35kV.



### Model and Meaning



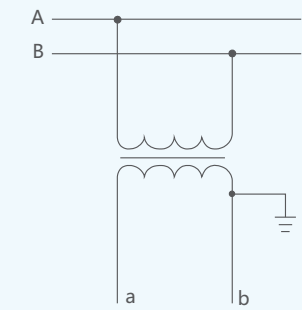
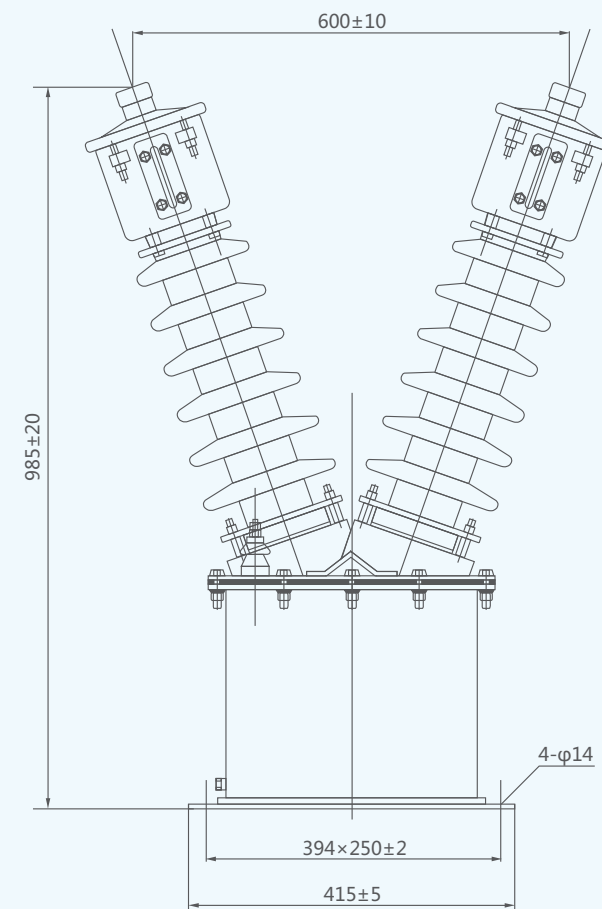
### Structure Features

This voltage transformer has three poles and the iron core is made of silicon steel sheet. The body is fixed on the box cover by clamps. There have the primary and secondary bushing also on the box cover. The oil box is made of steel sheet by welding, there are earth studs and oil drain plug on lower part of box wall, and four mounting holes in the bottom.

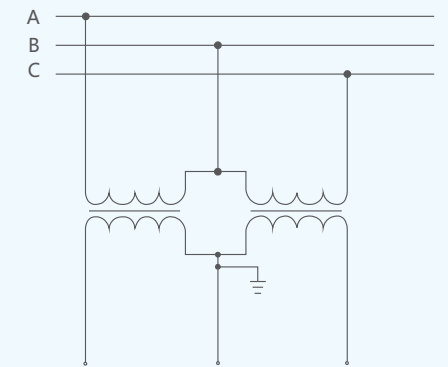
### Technical Specification

Type	Rated voltage ratio(V)	Rated output(V)				Ultimate output (VA)
		0.2	0.5	1	6P	
JDJ2-35	35000/100	75	150	250		1000
JDJJ2-35	35000/√3/100/√3/100/3	75	150	250	100	1000
	35000/√3/100/√3/100/√3/100/3	30	60		100	2×500

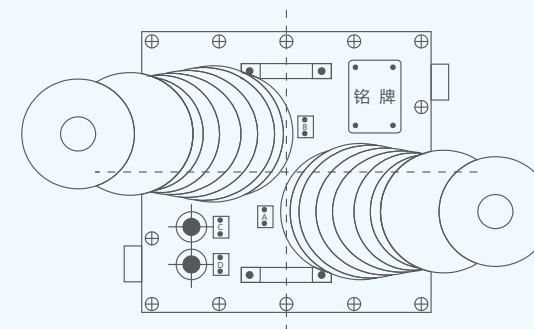
### Outline and Mounting Dimensions



JDJ2-35  
单相线路接线图  
Wiring diagram for single-phase circuit

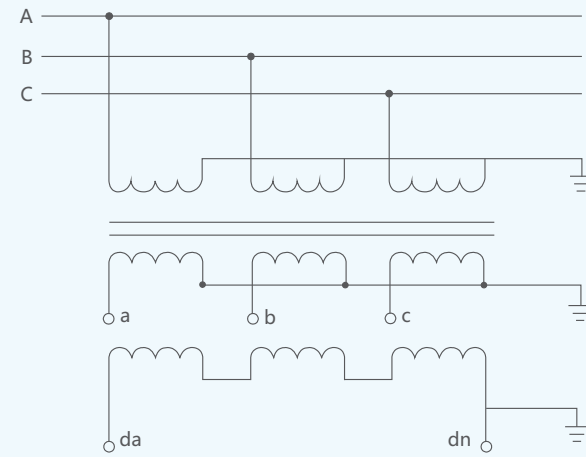
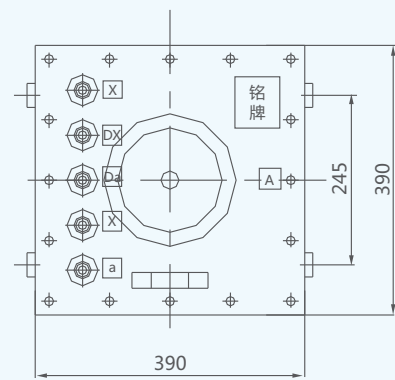
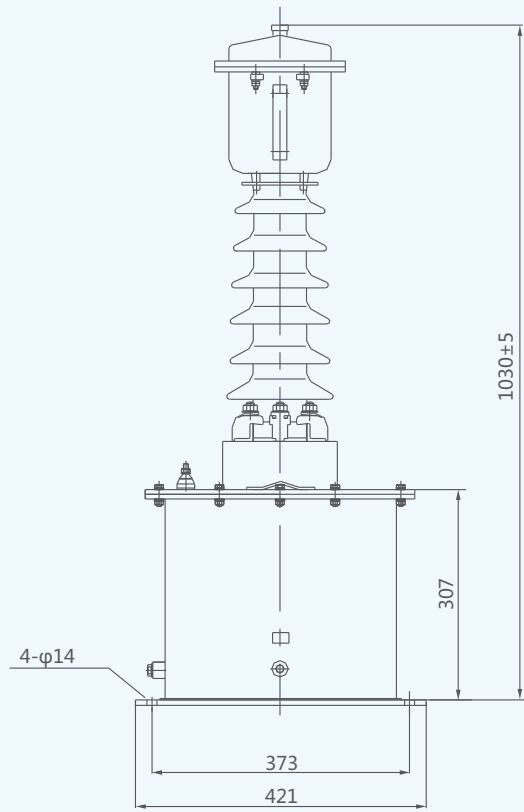


JDJ2-35  
三相线路接线图  
Wiring diagram for three-phase circuit

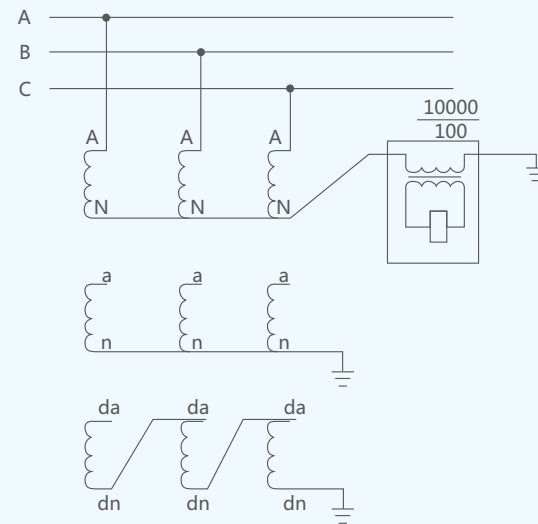




Outline and Mounting Dimensions



JDJJ2-35常规接线图  
Regular wiring diagram for JDJJ2-35



JDJJ2-35抗谐振三相线路接线图  
Wiring diagram for JDJJ2-35 anti-resonance three-phase circuit.

General Introduction

This type of voltage mutual inductors is three-phase three-winding oil-immersed Product with five iron-core poles, it is suitable for power system with AC 50Hz and rated voltage 10kV or below to measure voltage, electric energy and protect relay.

Structure Features

The iron-core of this voltage transformer employs side-iron structure, made of stripe silicon steel plate. Every phase has three windings: residual voltage winding, secondary winding and primary winding. The wiring diagram, please refer to Diagram 3-1-22. The residual voltage winding is wound onto an insulated paper sleeve and wrapped with insulated paper board, the secondary winding is wound onto the paperboard, then wound the primary winding onto the square ring outside of the secondary winding. The outer of the primary winding has electrostatic shield respectively and wrapped with paperboard and cloth. The three phases of A,B and C totally have three winding, wound onto three iron poles of the iron-core.

The transformer is fixed on the cover of tank by clamp, the cover of tank has high- and low-voltage output porcelain sheathes, nameplate, hanger and oil-feed plug with inhale hole. The circular barrel shaped oil tank is welded with steel plate and has a hanger on the upper wall of the tank for lifting up the transformer, the lower wall of the tank has grounding bolt and oil-discharge plug. The octagonal bottom of tank is made of steel plate and has four installment holes.



Technical Specification

Type	Rated voltage ratio(V)			Rated output(V)			Max. output of voltage coil (VA)	Power frequency withstand voltage(kV)
				0.5 class	1 class	3 class		
JSJW-3	3000/√3	100/√3	100/√3	50	80	150	320	24
JSJW-6	6000/√3	100/√3	100/√3	80	150	320	640	32
JSJW-10	10000/√3	100/√3	100/√3	120	240	480	960	42

Note:

- Under condition of primary winding applied three-phase balance rated voltage and residual voltage winding under open "Δ" connecting with 200VA (COSφ=0.8) load, when the wiring terminal of any phase of primary winding is short-circuit with neutral point, the terminal voltage of open "Δ" should be:  
(1) 100±10V when the secondary winding is connected with grade 0.5 rated load;  
(2) 100±3V when the secondary winding is empty load.
- The transformer can work with long-term under condition of 115% of rated voltage.

Outline and Mounting Dimensions

Fig 1 Overall and installation dimension of JSJW-6

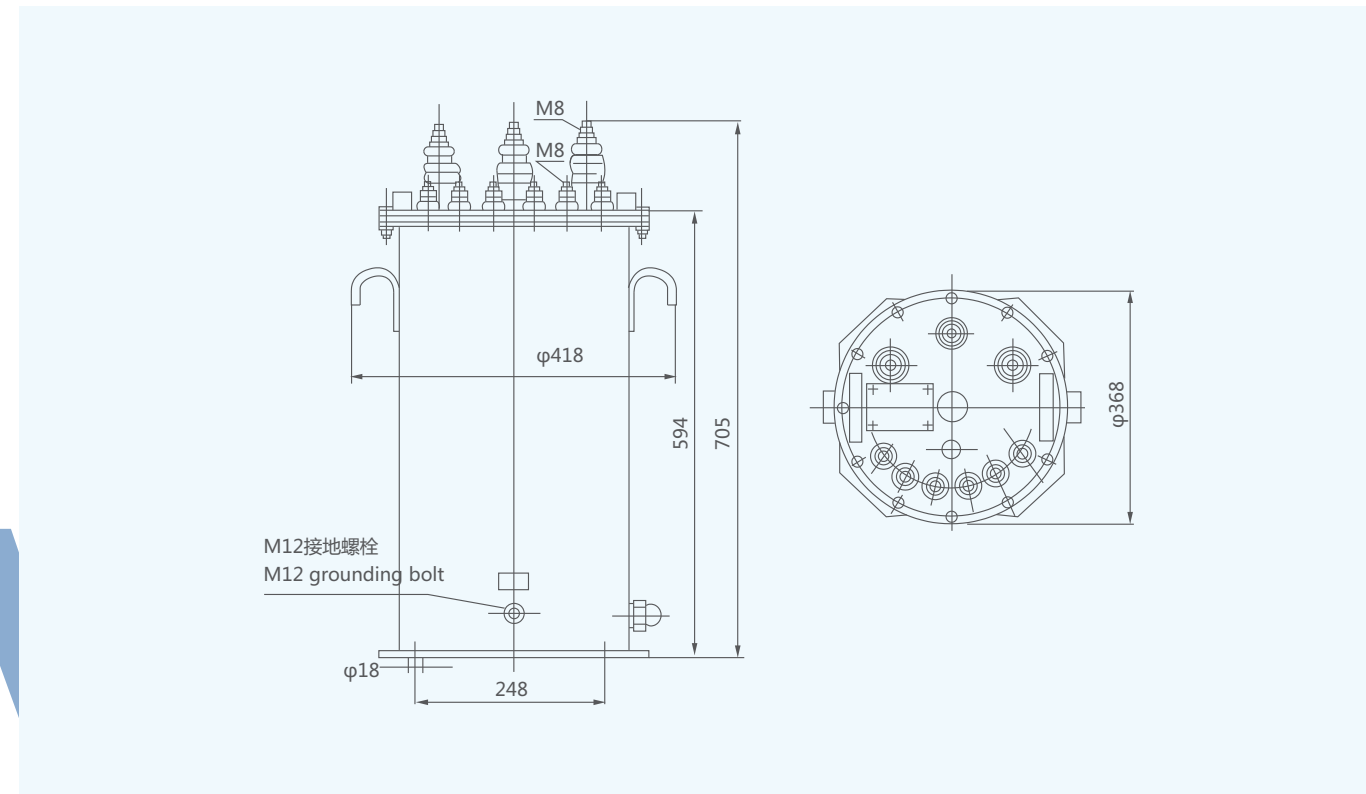
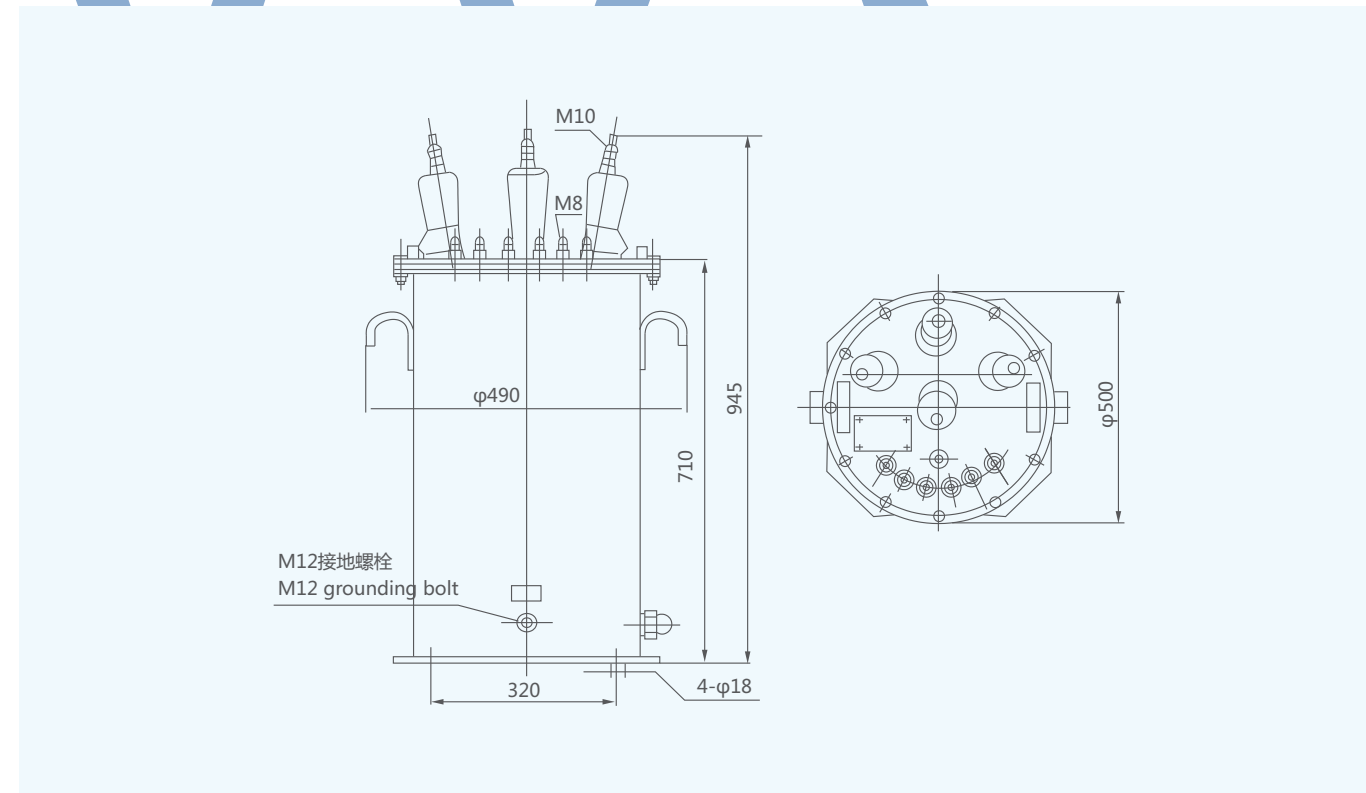
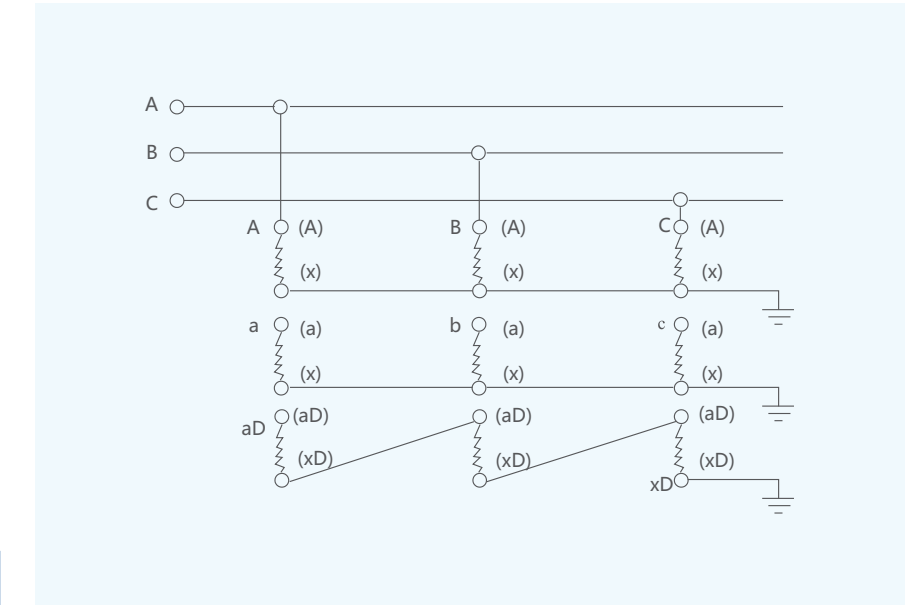


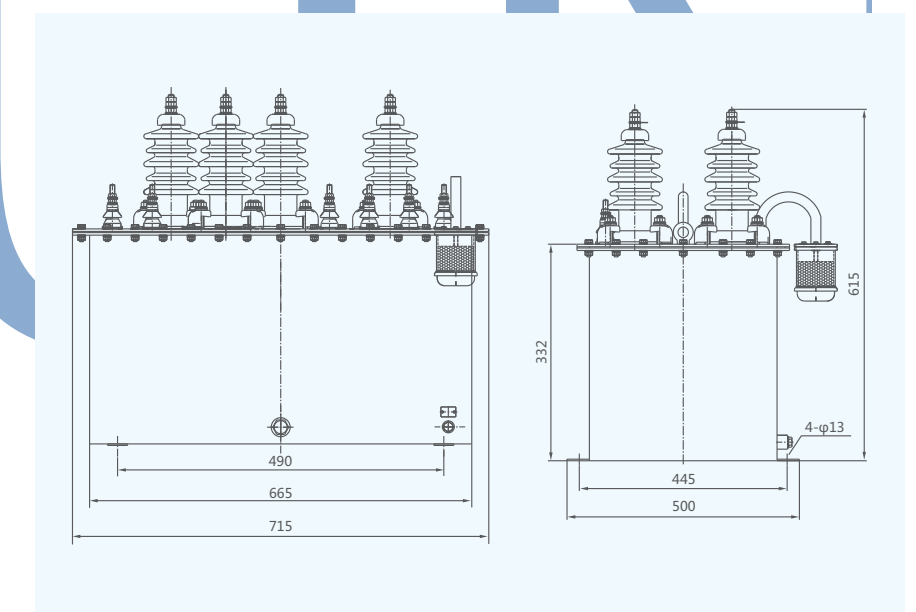
Fig 2 Overall and installation dimension of JSJW-10



Schema of Connection



Outline and Mounting Dimension



Technical Specification

Type	Rated voltage ratio(V)	Rated output(V)			Max. output of voltage coil (VA)	Power frequency withstand voltage(kV)
		0.5 class	1 class	3 class		
JSJW-3(Q)	$3000/\sqrt{3}/100/\sqrt{3}/100/\sqrt{3}$	50	80	150	320	24
JSJW-6(Q)	$6000/\sqrt{3}/100/\sqrt{3}/100/\sqrt{3}$	80	150	320	640	32
JSJW-10(Q)	$10000/3/\sqrt{3}/100/\sqrt{3}/100/\sqrt{3}$	120	240	480	960	42



### General Introduction

This zero-sequence current transformer has such characteristics as high precision, good linearity, reliable operation, easy installation, especially this transformer can be applied to system of zero-sequence current 1A and 2A while conventional zero-sequence transformer can not. The exterior design is two central-circle combined type, novel structure, beautiful and reasonable. The products can be used for power supply system in the fields of electric power, metallurgy, coal, petroleum, chemical industry, building material and other industries.

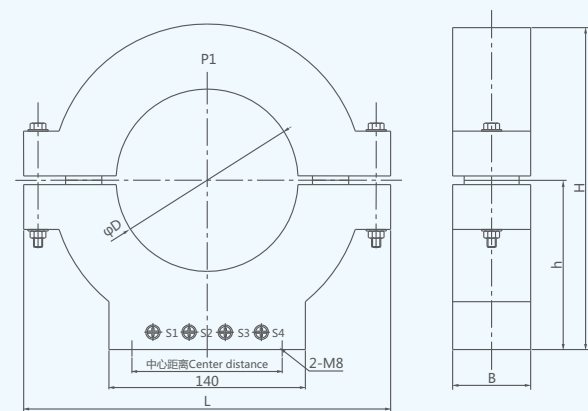
### Technical Specification

1. Operating environment
  - a. Environmental temperature: -20°C~50°C;
  - b. Relative humidity: ≤90%
  - c. Atmospheric pressure: 80kpa~200kpa;
2. AC voltage: 66kV~4000kV;
3. Zero-sequence current:
  - Primary side~36A (customize for 36A or above, secondary side 20~30mA)
4. Electric network frequency: 50Hz;
5. The terminal used with ML98 device-using explanation;

System primary zero-sequence current(A)	Selected terminal
1≤10 < 6	S1, S2
6≤10 < 12	S1, S3
12≤10 < 36	S1, S4

6. Secondary load: ≤2.5Ω

### Outline and Mounting Dimensions



Type	Bore φD	Width L	Height H	Center height h	Thickness B	Mounting size and bolt spec.(M8×25)
LCT-7	φ185	338	305	165	60	105±0.5
LCT-5	φ150	300	280	150	55	105±0.5
LCT-4	φ120	300	280	150	55	105±0.5
LCT-3	φ100	260	230	123	55	105±0.5
LCT-2	φ80	210	200	106	55	110±0.5



Left din rail 5XS.260.011

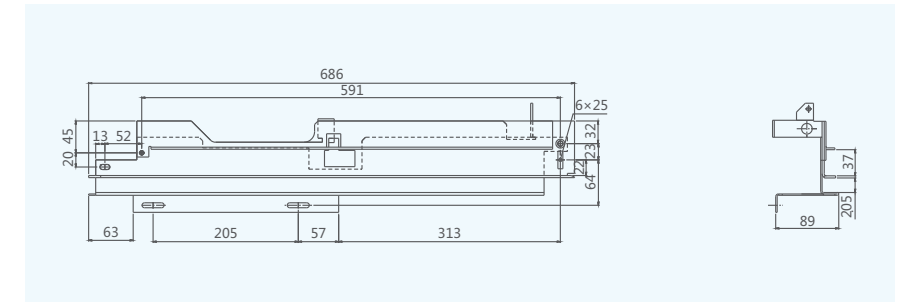


Right din rail 5XS.260.010

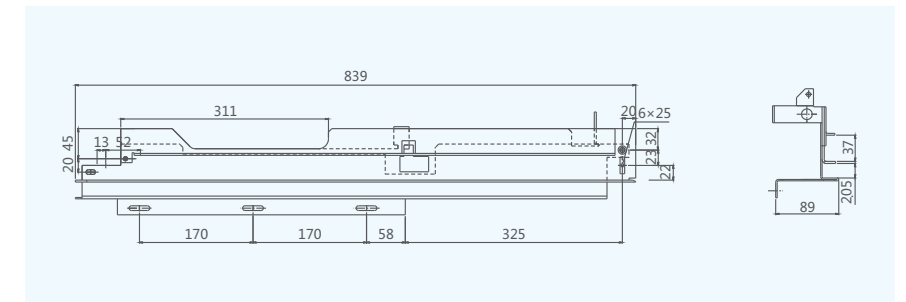


Din rail Interlocking Device 5XS.363.011

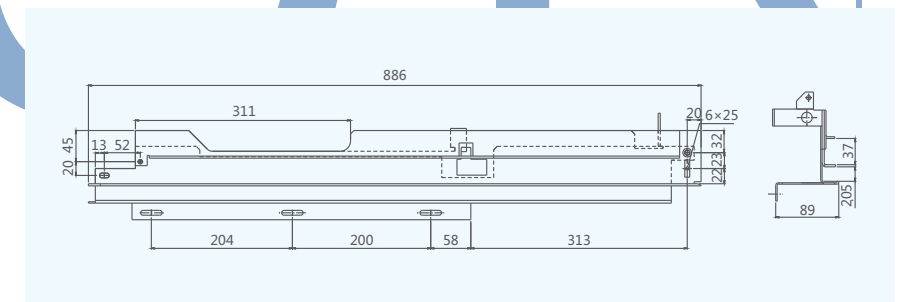
### Din rail 5XS.260. 010 011 (Standard type) outline and installation dimension



### Din rail 5XS.260. 010 011 .1 (Lengthen type, lengthen 153mm, suitable for VB2 etc.)



### Din rail 5XS.260. 010 011 .3 (Lengthen type, lengthen 200mm, suitable for 3AH,ZN12,ZN65 etc, modified handcart type circuit breakers)



### Din rail 5XS.260. 010 011 .4 (Lengthen type, lengthen 160mm, suitable for small current VB2,24KV circuit breaker handcart)

