

PEOPLE



Instrument And Meter

PEOPLE ELECTRIC
PRODUCT SALES MANUAL

**Providing Safer electrical
products globally**



COMPANY PROFILE

People Ele. Appliance Group was wholly owned company of People Holding Group, one of Chinese Top 500 Enterprise, and founded in the year 1996.

Industrial electrical products as the core business of People Ele. Appliance Group, People Electric owns Zhejiang, Shanghai, Nanchang , Fuzhou, Nantong and Zaozhuang six manufacturing bases, 35 wholly owned subsidiaries, 150 holding member enterprises, over 1500 cooperated processing enterprises and over 5000 sales companies.

The products are popularly sold to over 125 countries and regions, which are widely used in Pudong Airport, Beiing-Shanghai high-speed railway, Three Gorges Hydropower, Beijing Subway, Olympic venues, South North Water Transfer, Qinghai-Tibet Railway, Chang'e Lunar Exploration Project and Vietnam Taian hydropower project etc. major projects at home and abroad, which ranked among the World's Top 500 Machinery Enterprises.

Assess by the World's Brand Laboratory, the brand value reaches to RMB 101.636 bilion Yuan.

Perfect industry chain and personalize solutions, Satisfying the different requirements of global customers

 Power and energy <ul style="list-style-type: none">• Power• Petroleum and petrochemical• Transportation	 Industry and machinery <ul style="list-style-type: none">• Mining / building materials• Water / water treatment• Car	 Date center <ul style="list-style-type: none">• IT• High technology• Internet
 Commercial network <ul style="list-style-type: none">• Bank insurance• Public construction• Community facility	 Building <ul style="list-style-type: none">• Official building• Industrial building• Basic facility	 Residence <ul style="list-style-type: none">• Residential construction• Public construction• Community facility

More safety	More reliale	More efficient	More economic	More eco-friendly
Ensure the safety of life and property	Supply the power uninterruptedly	Reducing the consumption of energy and the cost, shorten the time of supply	Optimize the process of the machinery and factory, improving the comfortability of use.	Supply the energy through the renewable energy, reducing the carbon emissions

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PANEL METER

Installation Type Panel Meter



Main technical parameter

Accuracy: class 1.5, class 2.5
Service condition: -20℃ ~+50℃
Relative humidity: ≤85%
Withstand voltage influence: ±15%, cause indicating error which is not exceeding basic error.
Mechanical performance: can withstand acceleration of 30M/S, impulse frequency of 80~120 times/min, shock in transit for 2 hours.
Working location: vertical direction.

Measuring range

		Measuring range	Notes
AC Ammeter	A	50mA~50A	Connect directly
		10~800/5A	By 5A secondary current CT
	kA	1kA~10kA	
AC Voltmeter	V	5V~750V	Connect directly
	kV	1kV~450kV	By 100V secondary voltage VT
DC Ammeter	μA	50μA ~500μA	Connect directly
	mA	1mA~500mA	
	A	1A~10A	
		15A~750A	External shunt
DC Voltmeter	kA	1kA~10kA	
	V	1V~750V	Connect directly
	kV	1kV~450kV	External device
Frequency Meter	Hz	45Hz~55Hz	By 100V secondary voltage VT
		45Hz~65Hz	
		55Hz~65Hz	
		100V 220V 380V	
Power meter	kW	100V 380V 5A	By 5A secondary current CT By 100V secondary voltage VT
		380V~380kV/100V	
		5A~10KA/5	
Power factor meter	COSΦ	COSΦ=0.5-1-0.5	By 5A secondary current CT By 100V secondary voltage VT
		100V, 220V, 380V	
		5A	

Installation Type Panel Meter



42 Series

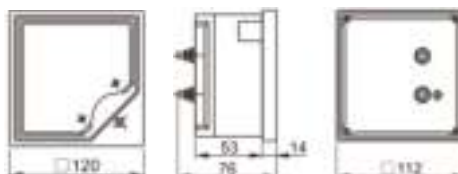
42 Series installation type panel meter

Installation dimension: 112×112mm

Accuracy: class 1.5

Functions: Ammeter, Voltmeter, Power meter, Frequency meter, Power factor meter.

Series: 42L6-A, 42C3-A, 42L6-V, 42C3-V, 42L6-W, 42L6-Var, 42L6-Hz, 42L6-COSφ.



6L2 Series installation type panel meter



6L2 Series

Installation dimension: 77×77mm

Accuracy: class 1.5

Functions: Ammeter, Voltmeter, Power meter, Frequency meter, Power factor meter.

Series: 6L2-A, 6C2-A, 6L2-V, 6C2-V, 6L2-W, 6L2-Var, 6L2-Hz, 6L2-COSφ.



72 Series installation type panel meter



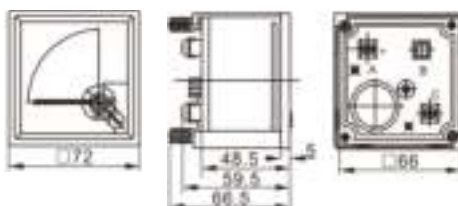
72 Series

Installation dimension: 67×67mm

Accuracy: class 1.5

Functions: Ammeter, Voltmeter, Power meter, Frequency meter, Power factor meter.

Series: 72T1-A (AC Ammeter), 72C1-A (DC Ammeter), 72T1-V (AC Voltmeter), 72C1-V (DC Voltmeter), 72L1-W, 72L1-Var, 72L1-Hz, 72L1-COSφ.



PANEL METER

Installation Type Panel Meter



96 Series

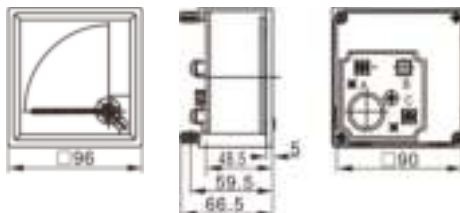
96 Series installation type panel meter

Installation dimension: 91×91mm

Accuracy: class 1.5

Functions: Ammeter, Voltmeter, Power meter, Frequency meter, Power factor meter.

Series: 96T1-A (AC Ammeter), 96C1-A (DC Ammeter), 96T1-V (AC Voltmeter), 96C1-V (DC Voltmeter), 96L1-W, 96L1-Var, 96L1-Hz, 96L1-COSφ



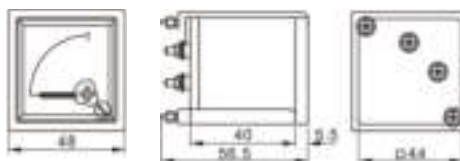
99 Series installation type panel meter

Installation dimension: 45×45mm

Accuracy: class 2.5

Functions: Ammeter, Voltmeter, Power meter, Frequency meter, Power factor meter.

Series: 99T1-A (AC Ammeter), 99C1-A (DC Ammeter), 99T1-V (AC Voltmeter), 99C1-V (DC Voltmeter), 99L1-W, 99L1-Var, 99L1-Hz, 99L1-COSφ



99 Series

85 Series installation type panel meter

Installation dimension: 56×64mm

Accuracy: class 2.5

Functions: Ammeter, Voltmeter, Power meter, Frequency meter, Power factor meter.

Series: 85L1-A, 85C1-A, 85L17-A, 85C17-A, 85L1-V, 85C1-V, 85L17-V, 85C17-V, 85L1-W, 85L17-W, 85L1-Var, 85L17-Var, 85L1-Hz, 85L17-Hz, 85L1-COSφ, 85L17-COSφ



85 Series

Installation type marine instrument meter



Main technical parameter

1. Rotational part uses magnetoelectric wire support, rotation without friction, reliable operation.
2. High mechanical shock resistance, the vibration works satisfactorily under the condition of 0.7 g acceleration.
3. High accuracy: class 0.5 for frequency meter, class 3.0 for power factor meter, others are class 1.5.
4. Pointer expansion angle is 240°
5. Operation environmental temperature: -25°C~+55°C
6. Protection grade of case: IP22
7. Voltage withstand: circuit and case AC2000V/1min.

New 45 type wide angle series instrument meter (110×110)

No.	Product name	Model No.	Measuring range	Connecting mode	Note
1	DC Ammeter	45C $\frac{8}{9}$ ·2101-A	0.5mA-1A-7.5kA	Directly connect, external with shunt above 10A	It can be extended to other non-electricity indication meter such as rotation rate, rudder angle, temperature, and pressure, etc.
2	DC Voltmeter	45C $\frac{8}{9}$ ·2101-V	100mV-500V-3kV	Directly connect, external with resistor above 750V	
3	AC Ammeter	45L $\frac{8}{9}$ ·2102-A	1-10A-10kA	Directly connect, through CT above 10A	Secondary current 5A, overload 2, 3, 6 times
4	AC Voltmeter	45L $\frac{8}{9}$ ·2102-V	50-450V-42kV	Directly connect, through PT above 450V	Secondary voltage 100V
5	High resistance meter	45L $\frac{8}{9}$ ·2103-MΩ	0-5MΩ	127V, 200V, 1mA, through PT380V/100V	Integrated head, JDB,ZCB equipped with insulation monitor
6	Three phase power meter	45L $\frac{8}{9}$ ·2105-W	3kW-6MW	Through PT/100V, CT/5A	Integrated head, negative power as scale of 10-20%
7	Reactive power meter	45L $\frac{8}{9}$ ·2106-Var	2.5Kvar-5Mvar	Through PT/100V, CT/5A	Integration of head and convertor
8	Power factor meter	45L $\frac{8}{9}$ ·2107-COSφ	Capacitive 0.5-1-0.5 inductive	Through PT380V/100V CT/5A	Integration of head and convertor
9	Frequency meter	45L $\frac{8}{9}$ ·2108-Hz	45-55-65Hz 350-480Hz	100V, 220V, through PT380V/100V	Integration of head and convertor
10	Three phase synchronizer meter	45T $\frac{8}{9}$ ·2109-S	Synchronization point	100V, 220V, through PT380V/100V	Motor-driven pointer type, electronic luminous type 360°

New 63 type wide angle series instrument meter (80×80)

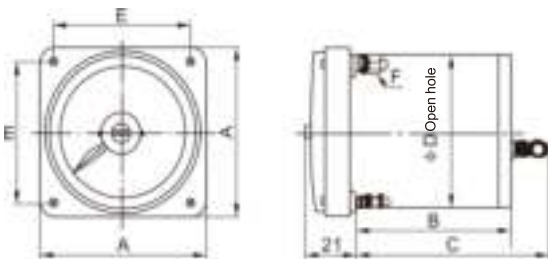
No.	Product name	Model No.	Measuring range	Connecting mode	Note
1	DC Ammeter	63C $\frac{18}{19}$ ·2181-A	0.5mA-1A-7.5kA	Directly connect, external with shunt above 10A	It can be extended to other non-electricity indication meter such as rotation rate, rudder angle, temperature, and pressure, etc.
2	DC Voltmeter	63C $\frac{18}{19}$ ·2181-V	100mV-500V-3kV	Directly connect, external with resistor above 500V	
3	AC Ammeter	63L $\frac{18}{19}$ ·2182-A	1-10A-10kA	Directly connect, through CT above 10A	Secondary current 5A, overload 2, 3, 6 times

PANEL METER

No.	Product name	Model No.	Measuring range	Connecting mode	Note
4	AC Voltmeter	63C ¹⁸ ₁₉ ·2182-V	50-450V-42kV	Directly connect, through PT above 450V	Secondary voltage 100V
5	Three phase power meter	63C ¹⁸ ₁₉ ·2185-W	3kW-6MW	Through PT/100V, CT/5A	External with convertor, negative power as scale of 10-20%
6	Reactive power meter	63L ¹⁸ ₁₉ ·2186-Var	2.5Kvar-5Mvar	Through PT/100V, CT/5A	External with convertor
7	Power factor meter	63L ¹⁸ ₁₉ ·2187-COSφ	Capacitive 0.5-1-0.5 inductive	Through PT380V/100V CT/5A	Integration of head and convertor
8	Frequency meter	63L ¹⁸ ₁₉ ·2188-Hz	45-55-65Hz	220V, 380V, through PT380V/100V	Integration of head and convertor
9	DC Ammeter	63C1 ¹⁸ ₁₉ ·63C2-A	0.5mA-10A-750A	Directly connect, equipped with shunt	
10	DC Voltmeter	63C1·63C2-V	2-750V	Directly connect	
11	AC Ammeter	63L1·63L2-A	1-20A, 10A-7.5kA	Directly connect, equipped with VT	CT /5A
12	AC Voltmeter	63L1·63L2-V	50V-450V-7.2kV	Directly connect, equipped with CT	Secondary voltage /100V

Dimensions (mm)

Model	A	B	C	D open hole	E	F
New 45 type	110	80	90	101	95	M5 open hole Φ6
New 63 type	80	90	105	71	64	M4 open hole Φ6



Installation dimension for New 45 type, new 63 type

Illustration: W, S tube length of New 45 type (45C, 45L, 2101-2109 Series) lengthening 40mm, others are the same.

RM858 series

Digital meter



Application

RM858E series multi-function digital meter is high accuracy, high reliability, and high cost-effective intelligent distribution instrument, specially designed for power monitoring, intelligent controlling and measurement, applicable of power system, industrial and mining enterprises, public facilities, intelligent buildings and so on.

Feature

- 2.1 Measure three-phase voltage, three-phase current, active power, reactive power, power factor, frequency, etc;
- 2.2 Measure active electric energy and reactive electric energy;
- 2.3 Pulse output of active electric energy and reactive electric energy;
- 2.4 Adopt latest microprocessor and digital signal processing technology;
- 2.5 Adopt calculation method of collecting each measurement channel separately;
- 2.6 Standard RS-485 communication interface, support Modbus-RTU protocol;
- 2.7 Big screen, blue backlight, text field LCD display;
- 2.8 Friendly man-machine operation interface;
- 2.9 Input parameter is programmable, easy to install and wire, easy maintenance.

Model selection

Specification		Model	RM-858E-AS3	RM-858E-3S3	RM-858E-9S3	RM-858E-2S3	RM-858E-ASY3	RM-858E-3SY3	RM-858E-9SY3	RM-858E-2SY3
Real-time measurement	Three-phase voltage		√	√	√	√	√	√	√	√
	Three-phase current		√	√	√	√	√	√	√	√
	Active/reactive power		√	√	√	√	√	√	√	√
	Power factor		√	√	√	√	√	√	√	√
	Frequency		√	√	√	√	√	√	√	√
Electric energy measurement	Active electric energy		√	√	√	√	√	√	√	√
	Reactive electric energy		√	√	√	√	√	√	√	√
	Two-way measurement		√	√	√	√	√	√	√	√
Electric energy pulse output			1	2	2	2	1	2	2	2
Switching value input			Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Switching value output			Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Transmitting output			Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Communication interface			1	1	1	1	1	1	1	1
Display mode			LED	LED	LED	LED	LCD	LCD	LCD	LCD
Frame size (mm)			72×72	80×80	96×96	120×120	72×72	80×80	96×96	120×120
Hole size (mm)			67×67	76×76	91×91	111×111	67×67	76×76	91×91	111×111

DIGITAL METER

RM858 series

Digital meter

Single phase AC digital ammeter



Model: RM858AI-□K1
Hole size (mm): 111×111, 76×76, 91×91, 67×67, 45×45, 91×45.
Display data: single phase AC current
Display mode: LED display
Communication mode: RS-485 (optional)
Network: single phase

Single phase DC digital ammeter



Model: RM858DI-□K1
Hole size (mm): 111×111, 76×76, 91×91, 67×67, 45×45, 91×45.
Display data: single phase DC current
Display mode: LED display
Communication mode: RS-485 (optional)
Network: single phase

Single phase AC digital voltmeter



Model: RM858AV-□K1
Hole size (mm): 111×111, 76×76, 91×91, 67×67, 45×45, 91×45.
Display data: single phase AC voltage
Display mode: LED display
Communication mode: RS-485 (optional)
Network: single phase

Single phase DC digital voltmeter



Model: RM858DV-□K1
Hole size (mm): 111×111, 76×76, 91×91, 67×67, 45×45, 91×45.
Display data: single phase DC voltage
Display mode: LED display
Communication mode: RS-485 (optional)
Network: single phase

RM858 series

Digital meter

Three-phase digital ammeter



Model: RM858I-□K3
Hole size (mm): 111×111, 76×76, 91×91, 67×67, 45×45
Display data: three-phase AC current
Display mode: LED display
Communication mode: RS-485 (optional)
Network: three-phase four-wire, three-phase three-wire

Three-phase digital ammeter



Model: RM858I-□KY3
Hole size (mm): 111×111, 76×76, 91×91, 67×67, 45×45
Display data: three-phase AC current
Display mode: LCD display
Communication mode: RS-485 (optional)
Network: three-phase four-wire, three-phase three-wire

Three-phase digital voltmeter



Model: RM858U-□K3
Hole size (mm): 111×111, 76×76, 91×91, 67×67, 45×45
Display data: three-phase AC voltage
Display mode: LED display
Communication mode: RS-485 (optional)
Network: three-phase four-wire, three-phase three-wire

Three-phase digital voltmeter



Model: RM858U-□KY3
Hole size (mm): 111×111, 76×76, 91×91, 67×67, 45×45
Display data: three-phase AC voltage
Display mode: LCD display
Communication mode: RS-485 (optional)
Network: three-phase four-wire, three-phase three-wire

DIGITAL METER

RM858 series

Digital meter



RM858F-□K1

Digital Frequency Meter

Model: RM858F-□K1

Hole size (mm): 111×111, 76×76, 91×91, 67×67, 45×45

Feature:

1. Display: 4 digital LED display
2. Accuracy: 0.5%±1 digit
3. Auxiliary power: AC 110V±10% 50/60Hz, AC220V±10% 50/60Hz
4. Input signal: 0~ AC 600V
5. Measuring range: 45~55Hz
6. Consumption: <3.2VA
7. Max signal consumption: <0.3VA
8. Operating environment: -10°C~+50°C, humidity: ≤85%
9. Storage environment: -30°C~+60°C, humidity: ≤70%
10. Withstand voltage: >2kV, 1min

Digital Power Factor Meter

Model: RM858PF-□K1

Hole size (mm): 111×111, 76×76, 91×91, 67×67, 45×45

Feature:

1. Display: 4 digital LED display
2. Accuracy: 0.5%±3 digit
3. Auxiliary power: AC 110V±10% 50/60Hz, AC220V±10% 50/60Hz
4. Input signal: 100V 200V 380V, 0-1A or 0-5A
5. Measuring range: 0-1.00(CorL)
6. Consumption: <3.2VA
7. Max signal consumption: <0.3VA
8. Operating environment: -10°C~+50°C, humidity: ≤85%
9. Storage environment: -30°C~+60°C, humidity: ≤70%
10. Withstand voltage: >2kV, 1min



RM858PF-□K1

Digital Power Meter

Model: RM858P-□K1

Hole size (mm): 111×111, 76×76, 91×91, 67×67, 45×45

Feature:

1. Display: 4 digital LED display
2. Accuracy: 1.0%±1 digit
3. Auxiliary power: AC 110V±10% 50/60Hz, AC220V±10% 50/60Hz
4. Input signal: 100V 200V 380V, 0-1A or 0-5A
5. Measuring range: all ranges
6. Consumption: <3.2VA
7. Max signal consumption: <0.3VA
8. Operating environment: -10°C~+50°C, humidity: ≤85%
9. Storage environment: -30°C~+60°C, humidity: ≤70%
10. Withstand voltage: >2kV, 1min



RM858P-□K1

RDNseries

Din type digital meter

RDN-G2X2-UI



Measuring Range:80~300V,0~999A
Signal Input:AC 80~300V,5A
Accuracy Class:±(1%FS+1 digit)
Auxiliary Power:no

RDN-G2X2-UICT



Measuring Range:80~300V,0~100A
Signal Input:AC 80~300V,0~100A
Accuracy Class:±(1%FS+1 digit)
Auxiliary Power:no

RDN-G2X1-I



Measuring Range:80~300V,0~999A
Signal Input:AC 80~300V,5A
Accuracy Class:±(1%FS+1 digit)
Auxiliary Power:no

RDN-G2X1-ICT



Measuring Range:0~999A
Signal Input:AC 5A
Accuracy Class:±(1%FS+1 digit)
Auxiliary Power:AC 80~300V

RDN-G2X1-U



Measuring Range:80~300V
Signal Input:AC 80~300V
Accuracy Class:±(1%FS+1 digit)
Auxiliary Power:no

DIGITAL METER

RDN series

Din type digital meter

RDN-G3K1-I



Measuring Range:0~9999A
Signal Input:AC 5A
Accuracy Class:±(0.5%FS+1 digit)
Auxiliary Power:AC220V,50/60Hz

RDN-G3k1-U



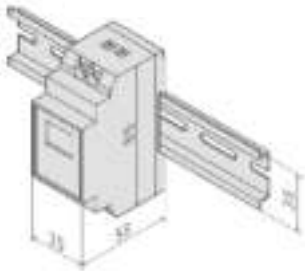
Measuring Range:0~600v
Signal Input:AC 0~600v
Accuracy Class:±(0.5%FS+1 digit)
Auxiliary Power:AC220V,50/60Hz

RDN-G3k1-F

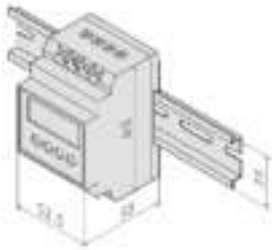


Measuring Range:30~99Hz
Signal Input:AC 30~500v
Accuracy Class:±(0.5%FS+1 digit)
Auxiliary Power:AC220V,50/60Hz

Dimension and Installment



G2 series



G3 series

DD862 series

Single phase mechanical meter



Application

DD862 single phase energy meter is induction meter for measuring energy in AC circuit,50/60Hz It conforms to the standard IEC62053-21. Durable and stable indoor use.

Technical features

Degree Index	2
Reference voltage	50Hz
Current	See form.1
Starting current	Maximum is 0.5% of basic current
Basic rotating speed	See form.1
Basic rotating torque	About 4.5x10Nm
Voltage circuit power consumption	< 1W
Withstand impulse voltage	6KV
Mounting size	152mmx104mm
Outline size	177mmx133mmx118mm
Reliability	Over 20 years operation with free-maintenance once mounting
Net weight	1.4kg

Form 1; overload multiples,basic current & rotating speed

Model	Rated current	Basic rotating speed
DD862	1.5(6)A	Based on spec. of nameplate
	2.5(10)A	
	5(20)A	
	10(40)A	
	15(60)A	
	20(80)A	
	30(100)A	

Working condition

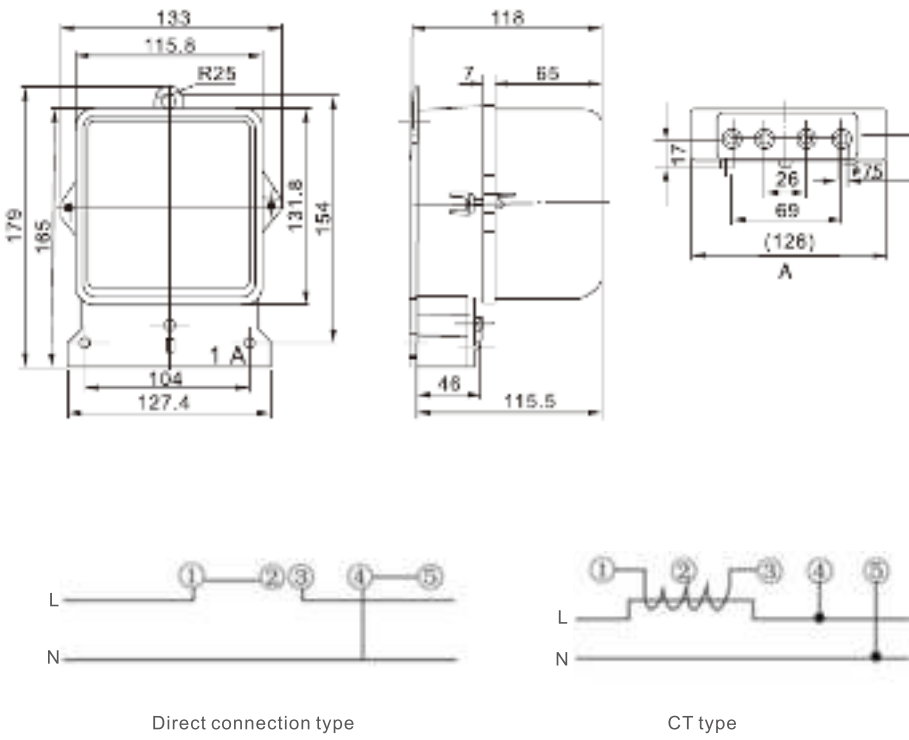
Working temperature: -20°C~+50°C
Extreme working temperature: -30°C~+60°C
Relative humidity: ≤75%

KILOWATT HOUR METER

DD862 series

Single phase mechanical meter

Outline & mounting size



D86 series

Three-phase mechanical meter



Application

D86 Three-phase Energy Meter Series Including the DT862 three-phase four-wire watt-hour meter; DS862 three-phase three-wire watt-hour meter; DX862 three-phase four-wire 90° reactive power meter; DX865 three-phase three-wire 90° reactive power meter are induction AC watt-hour meter, used for measuring rated frequency 50Hz three-phase three-wire, three-phase four-wire active or reactive energy in the power system. It conforms to the standard IEC62053-21. Durable and stable indoor use.

Technical features

Model	Category	Accuracy	Reference voltage	Rated current In
DS862(class 2)	Three phase three wires active energy meter	2 class	3x380V	3x1.5(6)A
				3x3(6)A
				3x5(20)A
				3x10(40)A
				3x15(60)A
				3x20(80)A
				3x30(100)A
			3x100V	3x1.5(6)A
DT864	Three phase three wires active energy meter	3 class	3x57.7/100V	3x3(6)A
				3x1.5(6)A
			3x220/380V	3x3(6)A
				3x1.5(6)A
				3x5(20)A
				3x10(40)A
				3x15(60)A
				3x20(80)A
DX862	Three phase four wires reactive energy meter	2 class 3 class	3x380V	3x30(100)A
				3x1.5(6)A
			3x100V	3x3(6)A
				3x1.5(6)A

Balanced load

Load current	Power factor	Basic error range	
		2 class	3 class
0.05I _b	Cosφ=1.0	±2.5	
0.1I _b -I _{max}		±2.0	
0.1I _b	Cosφ=0.5(inductive)	±2.5	
0.2I _b -I _{max}		±2.0	

KILOWATT HOUR METER

D86 series

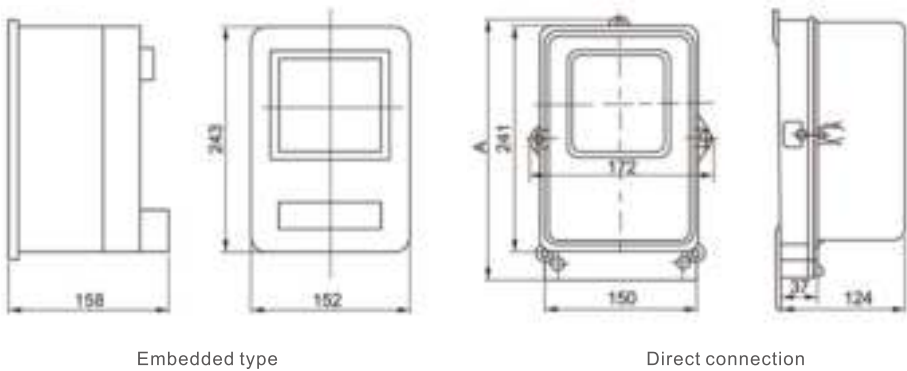
Three-phase mechanical meter

Load current	Power factor	Basic error range	
		2 class	3 class
0.1Ib	Sinφ=1.0(inductive)		±3.0
0.2Ib-I _{max}			±3.0
0.5Ib-I _{max}	Sinφ=0.5(inductive)		±3.0

Unbalanced load

Load current	Power factor	Basic error range	
		2 class	3 class
0.2Ib-Ib	Cosφ=1.0	±3.0	
>Ib-I _{max}	Cosφ=1.0	±3.0	
Ib	Cosφ=0.5(inductive)	±3.0	
0.2Ib-Ib	Sinφ=1.0(inductive)		±3.0
Ib	Sinφ=0.5(inductive)		±3.0

Outline & mounting size



DDS858 series

Single-phase electronic energy meter



Application

DDS858 single phase electronic energy meter adopts micro-electronic, computer, SMT manufacturing technology, can measure positive/reverse active power of each phase directly and accurately.

It conforms to the standard IEC62053-21.

Technical features

Model	Category	Reference voltage	Rated current In	Impulse constant
DDS858	Single phase	220V	1.5(6)A (CT type)	Based on nameplate
			3(6)A (CT type)	
			1.5(6)A(Direct connection)	
			3(6)A(Direct connection)	
			2.5(10)A	
			3x20(80)A	
			5(20)A	
			10(40)A	
			15(60)A	
			20(80)A	
			30(100)A	

Basic Error

Basic error limit when balanced load

Load current	Power factor	Basic error range	
		1 class	2 class
$0.05I_b \leq I < 0.1I_b$	1	± 1.5	± 2.5
$0.1I_b \leq I \leq I_{max}$	1	± 1.0	± 2.0
$0.1I_b \leq I < 0.2I_b$	0.5(inductive)/0.8(capacitive)	± 1.5	± 2.5
$0.2I_b \leq I \leq I_{max}$	0.5(inductive)/0.8(capacitive)	± 1.0	± 2.0

Workin Parameter

Data saving time after power failure	≥ 10 years
Electrical Parameter	
Norma working voltage	0.8~1.2 Rated voltage
Isolation voltage	$\geq 2000V$ (AC)
Voltage cycle power consumption	$\leq 1W$
Battery consumption after power failure	$\leq 10 \mu A$

KILOWATT HOUR METER

DDS858 series

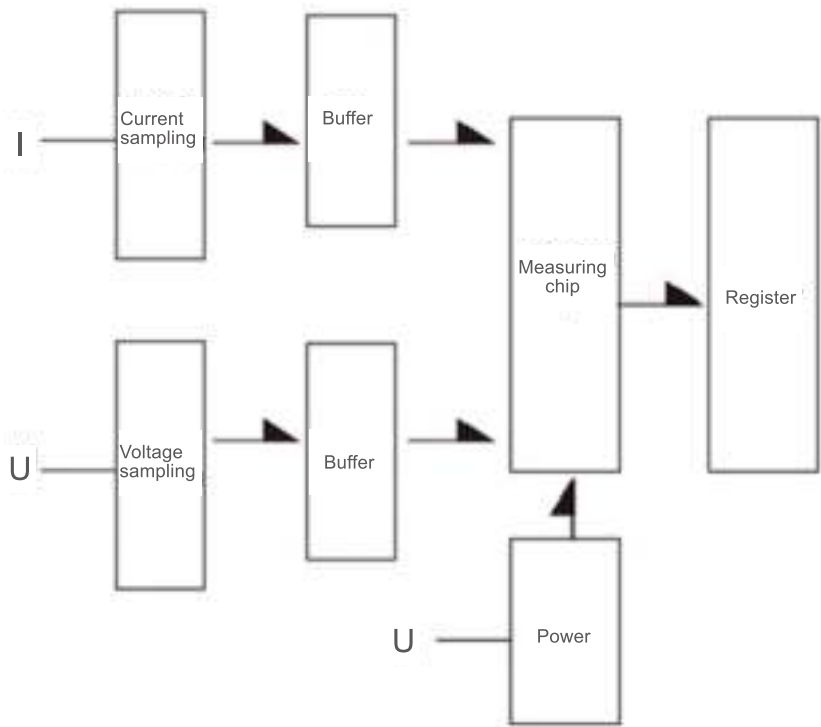
Single-phase electronic energy meter

Working condition

Normal working temperature: -20℃~-50℃
Storage & transport temperature: -25℃~+70℃

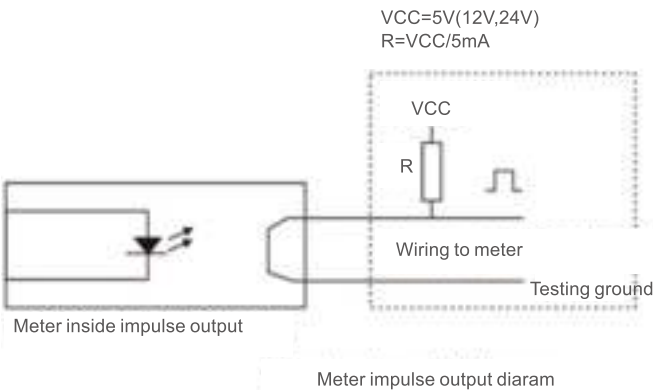
Extreme working temperature: -30℃~+60℃
Annual average humidity ≤75%

Working theory



Terminal wiring diagram

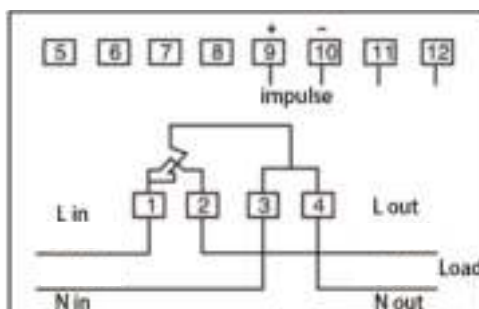
Active energy testing port diagram



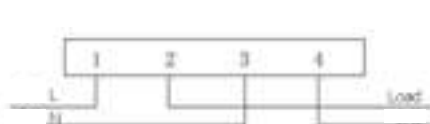
DDS858 series

Single-phase electronic energy meter

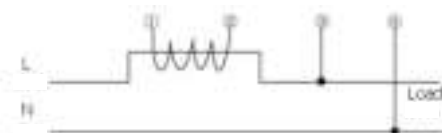
Function wiring terminals (A type)



Function wiring terminals (C type)

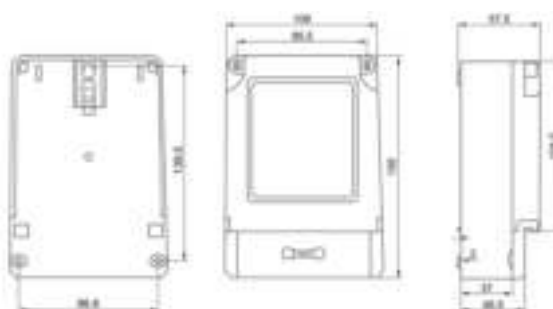


Direct connection type power terminals wiring

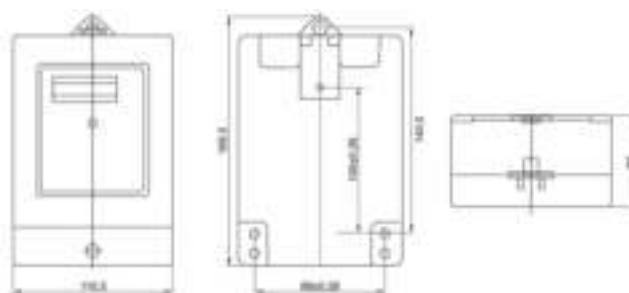


CT type power terminals wiring

Outline & mounting size



A type



C type

KILOWATT HOUR METER

DSS858/DTS858

Three-phase electronic energy meter



Application

DSS858/DTS858 three-phase electronic energy meter adopts large scale integrated circuit,16-bit A/D conversion,digital multiplier,digital sampling and SMT technology,can measure positive/reverse active power of 3-phase directly and accurately and indicate by LCD. With extra additional infrared and Rs485 communication function.
Stable and reliable, with exellent anti-electromagnetic interference performance,low consumption, high accuracy,anti electric -stealing.
It conforms to the standard IEC61036.

Technical features

Model	Category	Reference voltage	Rated current In	Impulse constant
DSS858	3 phases 3 wires	3x100V	3x1.5(6)A	Based on nameplate
			3x3(6)A	
		3x380V	3x1.5(6)A	
			3x3(6)A	
			3x2.5(10)A	
			3x5(20)A	
			3x10(40)A	
			3x15(60)A	
			3x20(80)A	
			3x30(100)A	
DTS858	3 phases 4 wires	3x57.5/100V	3x1.5(6)A	
			3x3(6)A	
			3x1.5(6)A	
			3x3(6)A	
			3x2.5(10)A	
			3x5(20)A	
			3x10(40)A	
			3x15(60)A	
			3x20(80)A	
			3x30(100)A	

Normal working voltage	0.8~1.2 rated voltage
Isolation voltage	≥2000V(AC)
Voltage cycle power consumption	≤2W,10VA
Accuracy	1.0 class; 2.0 class
Outline size	230x145x90mm
Weight	About 3Kg

DSS858/DTS858

Three-phase electronic energy meter

Actuation

$\cos \varphi = 1.0$ ($\sin \varphi = 1.0$), load current is 0.004Ib (1.0 class), 0.005Ib (2.0 class), meter can continuously measure energy.

False actuation

115% of rated voltage on loop, energy impulse shouldn't output when current loop break

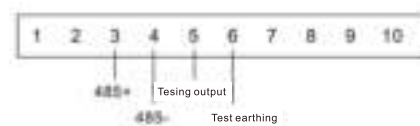
Working condition

Normal working temperature: $-20^{\circ}\text{C} \sim -50^{\circ}\text{C}$
Storage & transport temperature: $-25^{\circ}\text{C} \sim +70^{\circ}\text{C}$

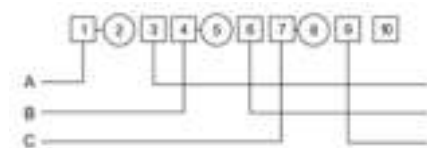
Extreme working temperature: $-30^{\circ}\text{C} \sim +60^{\circ}\text{C}$
Annual average humidity $\leq 75\%$

Terminal wiring diagram

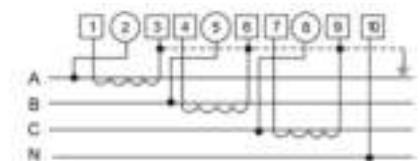
Function terminals wiring



Meter impulse signal terminal wiring

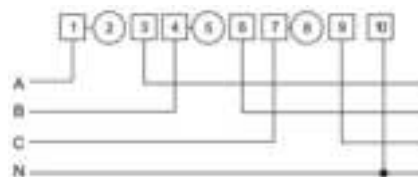


3-phase 3 wires direct connection type wiring

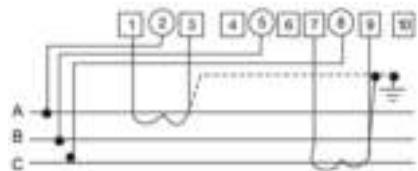


3 phase 4 wires CT connection type wiring

Power terminals wiring



3-phase 4 wires direct connection type wiring

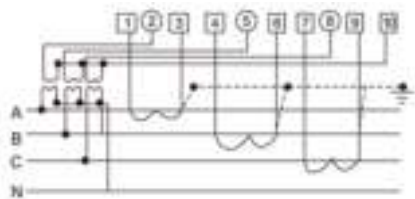


3-phase 3 wires CT connection type wiring

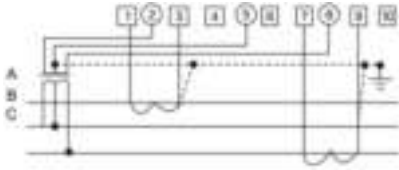
KILOWATT HOUR METER

DSS858/DTS858

Three-phase electronic energy meter

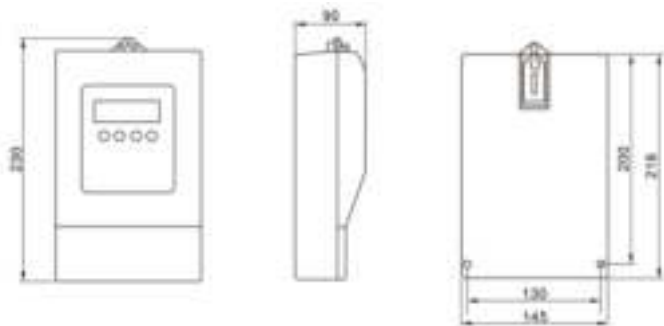


3 phase 4 wires CT, voltage transformer connection type wiring

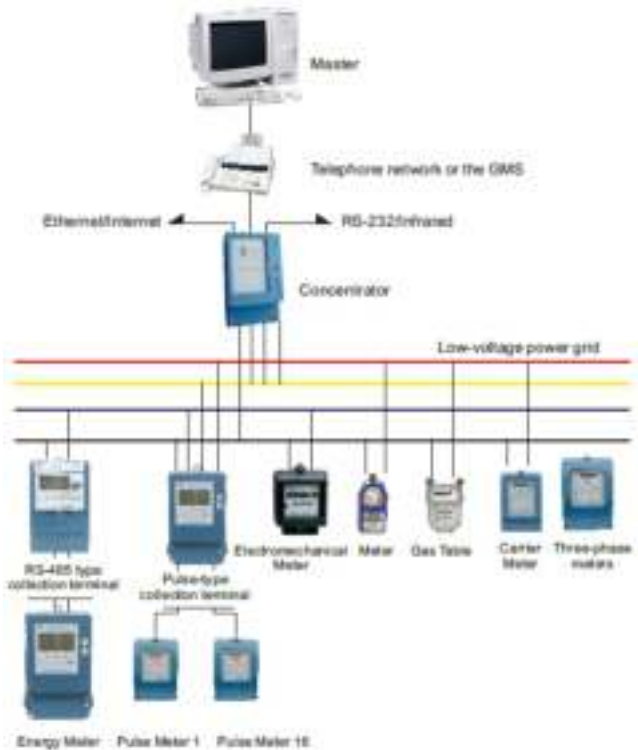


3 phase 3 wires CT, voltage transformer connection type wiring

Outline & mounting size



Communication diagram



DDSY858 series

Single-phase electronic prepaid energy meter



Application

DDSY858 single phase electronic prepaid energy meter(hereinafter referred to as the meter)Uses microelectronic technology to measure the electric energy.It conforms to the standard of IEC 62053-21:2003.Using fully shielded,sealed structure,and advanced single-chip microcomputer processing systems for data collection,processing and preservation.With the future of good anti-electromagnetic interference, low consumption and power saving, high-precision without calibration,prevention of electricity stealing, high overload, and long life.

Technical features

Form 1; overload multiples,basic current & rotating speed

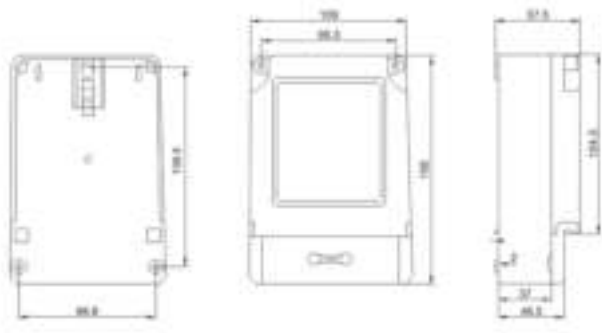
Model	Rated current In	Basic rotating speed
DDSY858	1.5(6)A	Based on spec. of nameplate
	2.5(10)A	
	5(20)A	
	10(40)A	
	15(60)A	
	20(80)A	
	30(100)A	

Load current	Power factor COS	Basic error %	
		Class 1. 0	Class 2. 0
0.15Ib	1	±1.5	±2.5
0.1Ib-Imax	1	±1.0	±2.0
0.1Ib	0.5 L/0.8 C	±1.5	±2.5
0.2Ib	0.5 L/0.8 C	±1.0	±2.0
Note: Ib is rated current,Imax is maximum current.			

Working condition

Frequency: 50/60Hz
Ambient temperature: -20℃ ~+50℃
Relative humidity: not more than 85%
The surrounding air shall not contain corrosive gas,and avoid the influence of dust,salt fog, condensation,etc.

Demension



KILOWATT HOUR METER

DTSY858 series

Three-phase electronic prepaid energy meter



Application

DSSY858/DTSY858 Series three-phase electronic prepaid energy meter(hereinafter referred to as the meter)Uses microelectronic technology to measure the electric energy.It conforms to the standard of IEC 62053-21:2003.Using fully shielded,sealed structure,and advanced single-chip microcomputer processing systems for data collection,processing and preservation.With the future of good anti-electromagnetic interference, low consumption and power saving, high-precision without calibration,prevention of electricity stealing, high overload, and long life.

Technical features

Form 1; overload multiples,basic current & rotating speed

Model	Category	Reference voltage	Rated current In	Impulse constant
DSSY858	3 phases 3 wires	3x100V	3X 1.5(6)A	External with AC contactor or shunt tripping
			3X 3(6)A	
		3x380V	3X 1.5(6)A	
			3X 3(6)A	
			3X 2.5(10)A	Built-in switch control
			3X 5(20)A	
			3X 10(40)A	
			3X 15(60)A	
			3X 20(80)A	
			3X 30(100)A	
DTSY858	3 phases 4 wires	3X 57.7/100V	3X 1.5(6)A	External with AC contactor or shunt tripping
			3X 3(6)A	
		3x380V	3X 1.5(6)A	
			3X 3(6)A	
			3X 2.5(10)A	Built-in switch control
			3X 5(20)A	
			3X 10(40)A	
			3X 15(60)A	
			3X 20(80)A	
			3X 30(100)A	External with AC contactor or shunt tripping

Basic Error

Current value		Power factor(COSφ)	Basic error range	
Direct connection meter	Instrument transformer		1 class	2 class
0.05Ib≤I<0.1Ib	0.02Ib≤I<0.5Ib	1	±1.5	±2.5
0.1Ib≤I≤Imax	0.05Ib≤I≤Imax	1	±1.0	±2.0
0.1Ib≤I<0.2Ib	0.05Ib≤I<0.1Ib	0.5(sensibility)/0.8(capacitive)	±1.5	±2.5
0.2Ib≤I≤Imax	0.1Ib≤I≤Imax	0.5(sensibility)/0.8(capacitive)	±1.0	±2.0

Not:Ib=Rated current; max=Maximum current

DTSY858 series

Three-phase electronic
prepaid energy meter

Voltage range

Normal working voltage	$0.9U_n \sim 1.1U_n$
Limit working voltage	$0.8U_n \sim 1.15U_n$

Power consumption

Power consumption of voltage circuit	$\leq 2W$ and $10VA$
Power consumption of current circuit	$\leq 4.0VA$

Starting current

Under the condition of the rated voltage, rated frequency, and $\cos\phi=1$, meter with load current of $0.004I_b$ (Class 1) and $0.005I_b$ (Class 2) can measure electric energy continuously.

Creeping

When the meter line without current, but voltage loop circuit with 115% rated voltage, the output pulse is not more than one.

Working condition

Frequency: 50/60Hz

Ambient temperature: $-20^{\circ}C \sim +50^{\circ}C$

Relative humidity: not more than 85%

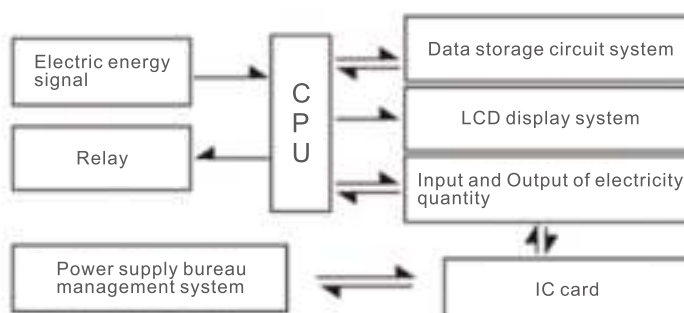
The surrounding air shall not contain corrosive gas, and avoid the influence of dust, salt fog, condensation, etc.

Working principles

DSSY858/DTSY858 three phase electronic type prepaid meter adopts the imported special large scale integrated circuit, 16 bit A/D conversion, digital multiplier, application of digital sampling processing technology and SMT manufacturing technology.

Working principle diagram

The meter obtains voltage sampling signal by voltage divider, obtains current sampling signal by current transformer, obtains voltage and current product signal by multiplier, and through the frequency conversion to generate a counting pulse that frequency is proportional to the product of voltage and current.

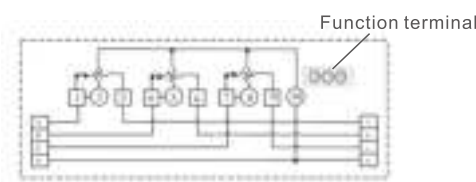
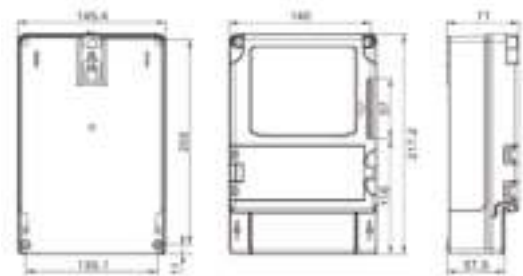


KILOWATT HOUR METER

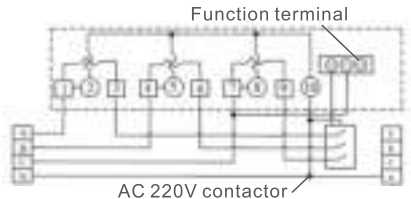
DTSY858 series

Three-phase electronic
prepaid energy meter

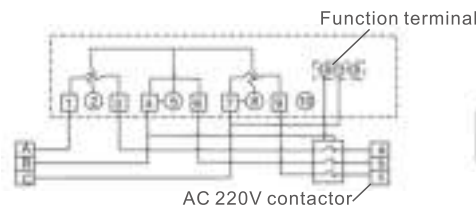
Dimension



Wiring diagram of 3-phase 4-wire direct-type
(with controller inside)



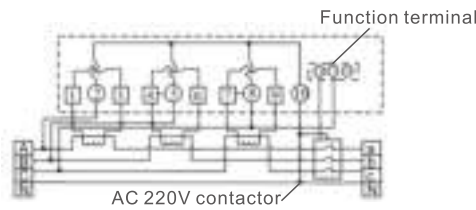
Wiring diagram of 3-phase 4-wire direct-type



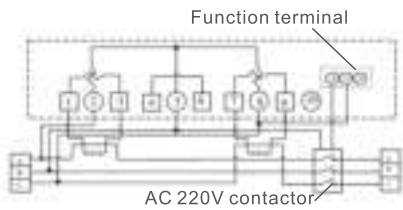
Wiring diagram of 3-phase 3-wire direct-type



Wiring diagram of function terminal



Wiring diagram of 3-phase 4-wire transformer-type



Wiring diagram of 3-phase 3-wire transformer-type

DDZY858 series

Single-phase tariff control intelligent watt-hour meter



Application

DDZY858 single-phase tariff control intelligent watt-hour meter is used for measuring the AC single-phase active energy with a rated frequency of 50 Hz, and realizes the management function of paying electricity after paying first. This product is manufactured by international advanced special large-scale integrated circuit and SMT process. The key components are low-power and long-life devices of international famous brands. The whole machine design adopts various anti-interference technologies to improve the reliability of the products. Sex and service life, the data display uses a large screen Chinese LCD, convenient for meter reading. This rate measurement can store the total energy of 12 settlement days and the energy data of each rate. Has an event recording function. Support 6 annual time zones, 2 daily timetables, 12 daily time slots, and 4 rates. At the same time, it also has infrared and RS485 communication functions, which can realize remote meter reading, and the communication protocol follows DL/T 645-2007. Its conforms to GB/T 17215.321-2008 and GB/T18460.3-2001 standards. The product can directly measure the positive and negative active power directly, and carry out multi-time measurement according to the corresponding rate setting.

Technical features

Form 1; overload multiples, basic current & rotating speed

Access method	Accuracy level	Rated voltage V	Maximum current A	Constant
Single phase straight through	2.0 class	220	20	3200
		220	30	2400
		220	40	1600
		220	50	1600
		220	60	1200
		220	80	800
Single phase straight through	2.0 class	220	100	800
		220	120	600
Single phase transformer	2.0 class	220	6	12000

Basic error

Load current	Power factor	Power factor
		2.0 class
0.05I _b ~0.1I _b	1.0	±1.5
0.1I _b ~I _{max}	1.0	±1.0
0.1I _b ~0.2I _b	0.5L 0.8C	±1.5
0.2~I _{max}	0.5L 0.8C	±1.0

Working condition

Frequency: 50/60Hz

Ambient temperature: -25℃ ~ +60℃

Relative humidity: not more than 75%

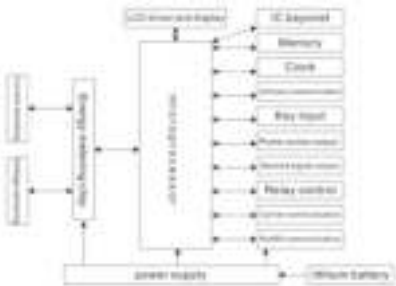
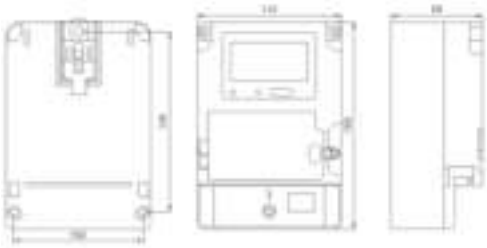
The surrounding air shall not contain corrosive gas, and avoid the influence of dust, salt fog, condensation, etc.

KILOWATT HOUR METER

DDZY858 series

Single-phase tariff control intelligent watt-hour meter

Dimension

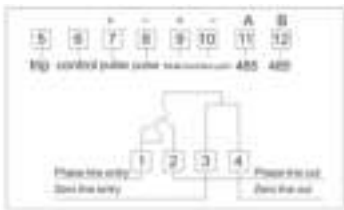


Working principle diagram

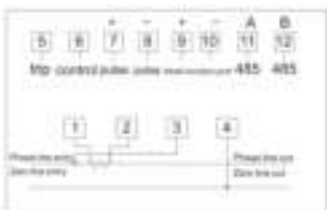
The electric energy meter is composed of two main functions: one is the electric energy metering part, the other is the microprocessor control part, and the electric energy metering part uses the shunt multiplication circuit to generate a pulse sequence indicating how much electricity is used, and sends it to the microprocessor for energy metering, micro The processor transfers data through the electrical card interface to implement various control functions.

Wiring

The energy meter should be wired according to the wiring diagram on the terminal box, preferably with a copper wire or copper terminal.



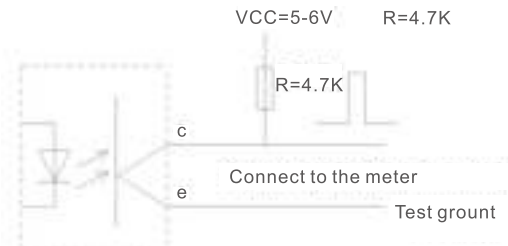
Direct access wiring diagram



Transformer access wiring diagram

Test

This series of electric energy meters are equipped with opto-coupled test output ports, which are located at the terminals, as indicated by c and e in the figure. The wiring is as follows:



Energy meter internal optocoupler output

DTZY858 series

Three-phase tariff control intelligent watt-hour meter



Application

DTZY858 three-phase four-wire tariff control intelligent watt-hour meter is a new generation of intelligent electric energy metering product developed by our company. It is composed of measuring unit, data processing unit, communication unit and so on. It has electric energy metering, information storage and processing, real-time monitoring, etc. Watt-hour meter with automatic control, information exchange and other functions; developed by using modern microelectronic technology, computer technology, electric measurement technology and data communication technology; can accurately measure electrical data in power grid, All kinds of events occurred in the power supply and power supply process can be traced back correctly and the disease has the function of load control. The user can request the internal relay or the external relay to control the load in advance. It has RS-485 communication interface of pulse output, wireless remote communication mode, optional remote or local cost control mode, simple and convenient maintenance, and is an ideal measuring instrument for power department in the construction of smart grid.

Technical features

Accuracy class 1. 0 active power class 2. 0, reactive power class 0. 0 rated power 50Hz

shape dimensions 290mm (high) × 170mm (width) × 85mm (thick) weight about 3kg

basic specification type and pulse constant comparison table

Type	classification	Parameter voltage	Rated Current	Pulse constant (Imp/kWh or imp/kvarh)
DTZY858	Three-phase four-wire	3×220/380V	3×1.5(6)A	800
			3×5(60)A	400
			3×20(80)A	200
			3×30(100)A	200

Electrical parameters

normal working voltage	0.8Un~1.2Un(Single Phase)0.70Un~1.2Un (Combined element)
Limit working voltage	0.60Un~1.3Un
Voltage line power consumption (per phase)	≤1.5W, 1.3Un
Power consumption of voltage line in remote communication	≤8W
Current line power (each phase)	<0.2VA
Clock cell	3.6VDC≥1200mAh
Blackout meter reading battery	6VDC≥1400mAh

Electrical parameters

Clock accuracy	≤0.5s/d(23°C)
Counting range	0.999999.99kWh,0.999999.99kxarh
Remote communication mode	485 communication.Wireless communication
Cost control mode	Local, remote
Communication baud rate	RS:1200bps~9600bps,acquiescent 2400bps Infrared communication:1200bps,2400bps
Communication protocol	《DL/T645-2007 Communication Protocol of Multi-Function Watt-hour Meter and filing document

KILOWATT HOUR METER

DTZY858 series

Three-phase tariff control
intelligent watt-hour meter

Climatic conditions

normal working temperature	-25℃~+60℃
Limit working voltage	-40℃~+70℃
Storage and transport temperature	-40℃~+70℃
Storage and working humidity	Annual average<75%

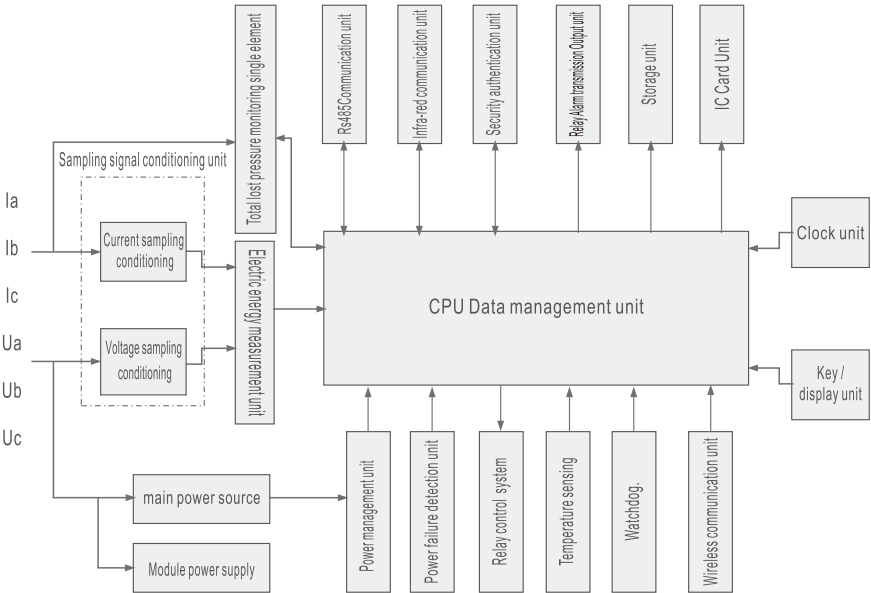
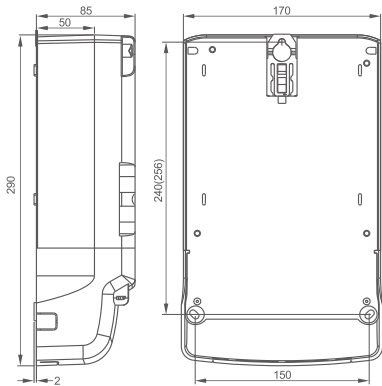


Table1 Working schematic diagram

The power measurement unit processes the sampling value of the measurement signal, obtains the voltage and current value by the integral of the sampling value and the software filtering operation, obtains the corresponding instantaneous power by the product operation of the sampling value, and obtains the integral of the instantaneous power by the integral of the instantaneous power. After obtaining the energy for a period of time, the fundamental electric energy and the 221st harmonic content data of voltage and current are calculated by Fourier transform. The CPU data management unit is the core of the system. It synthesizes the data returned by each unit and generates the electric energy data needed by the user. The functions of time-sharing accounting management, power consumption event management, user data display management, historical data management, user data communication management, ammeter data security management, control management and so on are completed.



Installation size
Drawing2 Installation dimensions of
watt-hour meters

Installation method

Installation method

- 1.Select suitable installation environment for watt-hour meters, such as ammeter cabinets, ventilated and dry rooms, etc.
- 2.Remove the watt-hour meter and remove the bottom cover of the meter;
- 3.Find a suitable base on the installed meter cabinet to drill 3 installation holes according to the installation size.

Note: The base shall be fixed to a solid, refractory, There are no hook screw holes in the watt-hour meter and two fixing holes in the lower part of the meter, which are fixed with PA4 × 10 or PA4 × 12 self-tapping screws.

DTZY858 series
Three-phase tariff control
intelligent watt-hour meter

Wiring method

Strictly follow the following wiring diagram to ensure that the input voltage and current is less than the limit parameters of the meter more than a dozen, so as to avoid the watt-hour meter working differently.
Regular or damaged. In the areas where thunderstorms are more frequent, the necessary lightning protection measures should be adopted.

Figure description



No.	Explanation
1	Parameters such as rated current, rated voltage, meter constant and so on.It is expressed as the accuracy grade; it indicates that the electric energy meter is a class II protective insulation sealing instrument.
2	Location of indicator lights and infrared communication ports (by function)
3	Indicating the name information of the watt-hour meter
4	Liquid crystal region: LCD screen visible size of 85mm (long) × 50mm (wide)
5	Communication protocol
6	Up and down buttons to query the settings display items

KILOWATT HOUR METER

Din Rail Type

Electronic watt-hour meter



Applications

Din rail type electronic watt-hour meter, completely accords with relevant technical requirements of class 1 and class 2 accuracy. It can accurately and directly measure active energy consumption. It also can display total energy consumption by step type impulse register or LCD display. This watt-hour meter conforms. EN62053-21 standard.

	Single phase	Three phase
Accuracy(EN62053-21)	class 1,2	class 1,2
Frequency	50/60Hz	50/60Hz
Rated voltage	120V/230V	230V/400V
Rated impulse voltage	Uimp 6KV-1.2/50S	Uimp 10KV-1.2/50S
Power consumption	≤1.5W/6VA per phase	≤2W/10VA per phase
Temperature range	-10°C~+50°C	-10°C~+50°C

Specification

Mounting: DIN rail EN 50022

Type	Rating	Voltage	Class	Designation
DS977-25S DS977-25SC (LCD)	2.5(10)A	AC120V/230V	1.0/2.0	Single Phase 1 module
	3(15)A			
	5(25)A			
	5(30)A			
DS977-65S	2.5(10)A	AC120V/230V	1.0/2.0	Single Phase 2 module
	3(15)A			
	5(30)A	AC230V		
	10(40)A			
	15(60)A			
DS977-100S	2.5(10)A	AC120V/230V	1.0/2.0	Single Phase 4 module
	5(30)A			
	10(50)A	230V		
	15(60)A			
	20(100)A			
DS977-100S (LCD)	5(30)A	230V	1.0	Single Phase 4 module
	10(60)A			
	15(90)A			
	20(100)A			
DS977-100T	1.5(6)A CT	230/400V	1.0	Three Phase 7 module
	3(6)A CT			
	5(30)A	230/400V	1.0	
	10(60)A			
	15(90)A			
	20(100)A			

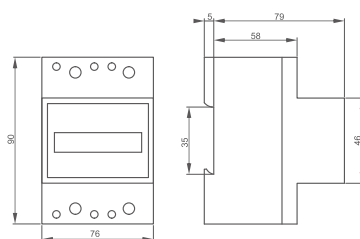
Din Rail Type

Electronic watt-hour meter

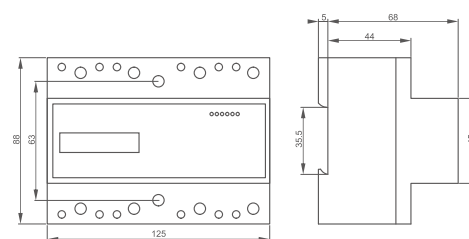


Type	Rating	Voltage	Class	Designation
DS977-100TC (LCD)	1.5(6)A CT	230/400V	1.0	Three Phase 7 module
	3(6)A CT			
	5(30)A			
	10(60)A			
	15(90)A			
	20(100)A			

Dimension



Single Phase



Three Phase

TEMPERATURE CONTROLLER

XMT-8000 series

Intelligent digital temperature controller



XMTA-8000



XMTD-8000

Type

XMT ☐ -8 ☐ ☐ ☐ ☐ * ☐ ☐

8.The second alarm type(ALM2)

- N: not set alarm
- A: upper limit deviation alarm
- B: lower limit deviation alarm
- C: upper and lower limit deviation alarm
- D: within range alarm
- E: upper limit deviation alarm with standby
- F: lower limit deviation alarm with standby
- G: upper and lower limit deviation alarm with standby
- H: upper limit input value alarm
- J: lower limit input value alarm
- K: upper limit input value alarm with standby
- L: upper limit input value alarm with standby

7.The first alarm type(ALM1)

6.Input type

- 1: Thermocouple input(TC)
- 2: Thermal resistance input(RTD)
- 3: Voltage signal input(mV,V)
- 4: Resistance signal input(oM)
- 5: Current signal input(mA)

5. Alarm

- 1: the first channel alarm output
- 2: the second channel alarm output

4. The second control mode and output type

- 0: ON/OFF relay contact output
- 4: PID relay contact output
- 5: PID voltage pulse output
- 7: PID single-phase SCR zero-crossing trigger signal output

3. The first control mode and output type

- 0: ON / OFF relay contact output
- 4: PID relay contact output
- 5: PID voltage pulse output

2. Intelligent level: 8000 series is all-purpose input

1. Meter size

XMT-8000 series

Intelligent digital temperature controller



XMTE-8000

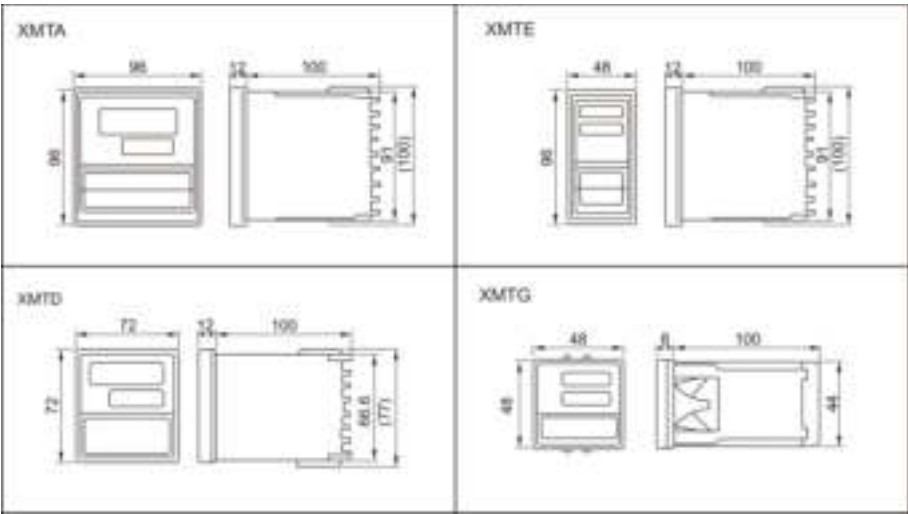


XMTG-8000

Outline and hole size unit:mm

Type	Face frame	Outline	Hole size
XMTG	48×48	45×45×100	(44+0.5)×(45+0.5)
XMTE	48×96	43×91×100	(43+1)×(91+1)
XMTD	72×72	67×67×100	(67+1)×(67+1)
XMTA	96×96	91×91×100	(91+1)×(91+1)

Dimension



Technical index

Input

Thermocouple (TC), thermal resistor (RTD), standard Current and voltage signals.

Display	E	J	r	S	b	E	n	r	Pt	CU	oM	mV	mA	V
Input type	(TC)								(RTD)		CURRENT VOLTAGE			
	K	J	R	S	B	E	N	T	PT 100	CU 50	oM	mV	mA	V

Accuracy

Measuring accuracy:±0.5%FS

Error of cold junction compensation: ±2℃(can be amend by software within 0~50℃)

Resolution: 14 Bit

Sampling period: 0.5 Sec

Display

(PV), (SV): -1999~+9999

Output, alarm, auto tuning status display: LED

Control Modes:

- 1.PID control (including ON/OFF, position PID and continuous PID)
- 2. Auto tuning control

TEMPERATURE CONTROLLER

XMT-8000 series

Intelligent digital
temperature controller

Control output:

1. Current output: DC 0~10mA, 4~20mA(RL<500Ω)
2. Voltage output: DC 0~5V, 1~5V(RL>10K)
3. Relay output: contact capacity 250VAC 3A (resistive loads)
4. Voltage pulse output : 0~12V(apply to SSR)
5. SCR output: zero-cross trigger or phase shift trigger (resistive load)
6. Alarm output: One alarm or two alarms, 12 modes
Output contact capacity: 250VAC 3A (resistive load)

Setting range

Setting value (SV): Measured Present Value (PV)
Proportional band (P): 0~whole measured range (When set P to 0, it will be ON/OFF control)
Integral time (I): 0~3600Sec(when the time is 0, without integral action)
Derivative time (D): 0~3600Sec(when the time is 0, without derivative action)
Proportional term: 1~100Sec

Other:

1. Insulation resistance :> 50MΩ (500VDC)
2. Insulation strength: 1500VAC/1min
3. Power consumption: <10VA
4. Ambient: 0~50°C, 30~85%RH, non- corrosive gas

XMT-7000 series

Intelligent digital
temperature controller

Type

XMT ☐ -7 ☐ ☐ ☐

Input signal:

- 1-thermocouple(mv)K,E,J,S, etc.
- 2-thermal resistor(Ω): Cu50,Pt100, etc.
- 3-Hall transmitter, CP type differential manometer or voltage
- 4-Remote transmitting pressure gage Ω
- 5-Standard current 0~10mA, 4~20mA

Alarm function: 0-No alarming function

- 1-With upper limit contact output alarm function
- 2-With lower limit contact output alarm function
- 3-With upper and lower limit contact output alarm function

Adjusting way: 0-Two states type adjustment

- 1-DC1-5V voltage signal continuous output
- 2-Three states type adjustment
- 3-DC0-5V voltage signal continuous output
- 4-Contact on-off type PID adjustment
- 5-Driving solid state relay PID adjustment
- 6-Output single-phase SCR phase-shift trigger signal PID adjustment
- 7-Output single -phase zero-crossing trigger signal PID adjustment
- 8-Output three-phase zero-crossing trigger signal PID adjustment
- 9-Output DC0~10mA; 4~20mA and other current PID adjustment

Panel dimension: (width× height): A.96×96(92×92)

D.72×72(68×68)

E.48×96(45×92)

F.96×48(92×45)

G.48×48(45×45)

Empty,160×80(152×76)

Note: Values in brackets are hole dimension

TEMPERATURE CONTROLLER

XMT-7000 series

Intelligent digital
temperature controller


Performance index

	Index
Display	High brightness green and red double row nixie tube to display PV and SV
Input signal	Sensing signal specify an input
	Transducer self-correcting
	Sampling period: 3 times /s
Function	Secondary parameter lock protective function
	Alarm range: deviation value of upper and lower limit absolute value, full measuring range can be set freely
Accuracy class	$\pm 1\%FS\pm 1$
	$\pm 0.5\%FS\pm 1$
Power supply	Switching power supply: 85-264VAC 50/60Hz power consumption $\leq 3W$
	transformer supply: AC220V $\pm 10\%$ 50/60Hz power consumption $\leq 3W$
Insulating strength	2KV/50Hz/1min
Output	Relay contact capacity AC220V3A(resistive), 1A(inductive)
	Solid state relay DC 0-12V
	Optocoupler silicon controlled 1A/600V
Resolution	1%FS,0.1%FS
Operating conditions	Environment temperature: 0℃-50℃, humidity 45%-85%,non-corrosiveness and without strong electromagnetic interference
	Altitude: $\leq 2500m$ atmospheric pressure: 80-106kpa

Boundary dimension and hole dimension


7000	Boundary code	Panel size	Meter length	Hole dimension	Installation distance
XMT	1	160×80	80	153×77	30mm
XMTA	2	96×96	110	93×93	
XMTD	3	72×72	110	69×69	
XMTE	4	48×96	110	45×93	
XMTG	6	48×48	110	45×45	

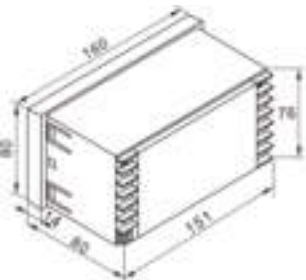

Product


Type	Product code	Main function	Diagram
XMT	7001 7002	Two position adjustment	
	7201 7202	Three position adjustment	
	7411 7412	Contact on-off type PID adjustment (with alarm)	
	7511 7512	Driving solid state relay PID adjustment (with alarm)	
	7611 7612	Single-phase phaseshift trigger signal PID adjustment (with alarm)	

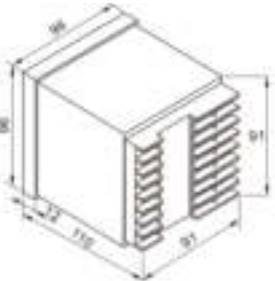
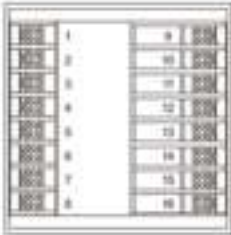
XMT-7000 series

Intelligent digital
temperature controller

Type	Product code	Main function	Diagram
XMT	7711 7712	Single-phase passing zero trigger signal PID adjustment (with alarm)	
	7801 7802	Three-phase passing zero trigger signal PID adjustment	
	7911 7912	DC0-10mA; 4-20mA and other current PID adjustment	

Appearance	Back-end wiring diagram
	


Type	Product code	Main function	Diagram
XMTA	7001 7002	Two position adjustment	
	7201 7202	Three position adjustment	
	7411 7412	Contact on-off type PID adjustment (with alarm)	
	7511 7512	Driving solid state relay PID adjustment (with alarm)	
	7611 7612	Single-phase phaseshift trigger signal PID adjustment (with alarm)	
	7711 7712	Single-phase passing zero trigger signal PID adjustment (with alarm)	
	7801 7802	Three-phase passing zero trigger signal PID adjustment	
	7911 7912	D C0-10mA; 4-20mA and other current PID adjustment	

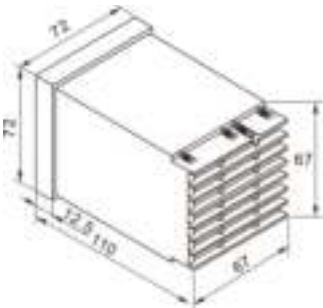
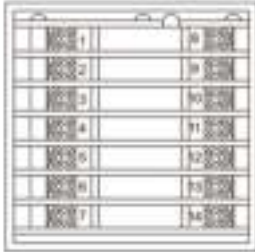
Appearance	Back-end wiring diagram
	


TEMPERATURE CONTROLLER

XMT-7000 series

Intelligent digital
temperature controller

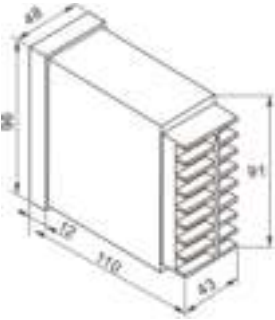

Type	Product code	Main function	Diagram
XMTD	7001 7002	Two position adjustment	
	7201 7202	Three position adjustment	
	7411 7412	Contact on-off type PID adjustment (with alarm)	
	7511 7512	Driving solid state relay PID adjustment (with alarm)	
	7611 7612	Single-phase phaseshift trigger signal PID adjustment (with alarm)	
	7711 7712	Single-phase passing zero trigger signal PID adjustment (with alarm)	
	7801 7802	Three-phase passing zero trigger signal PID adjustment	
	7911 7912	D C0-10mA; 4-20mA and other current PID adjustment	


Appearance	Back-end wiring diagram
	

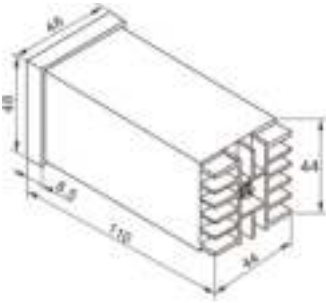
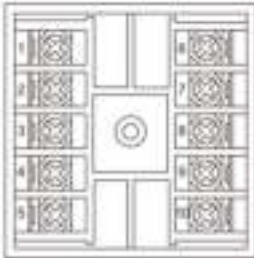
Type	Product code	Main function	Diagram
XMTE	7001 7002	Two position adjustment	
	7201 7202	Three position adjustment	
	7411 7412	Contact on-off type PID adjustment (with alarm)	
	7511 7512	Driving solid state relay PID adjustment (with alarm)	
	7611 7612	Single-phase phaseshift trigger signal PID adjustment (with alarm)	
	7711 7712	Single-phase passing zero trigger signal PID adjustment (with alarm)	
	7801 7802	Three-phase passing zero trigger signal PID adjustment	
	7911 7912	D C0-10mA; 4-20mA and other current PID adjustment	

XMT-7000 series

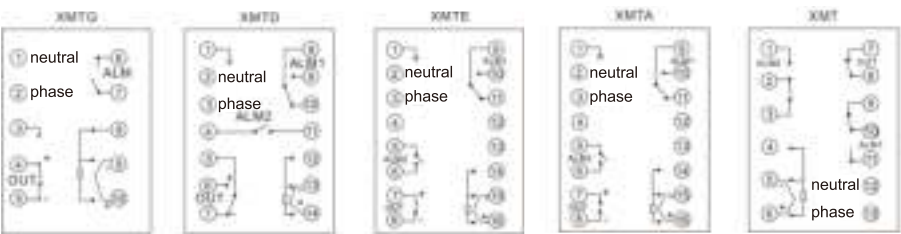
Intelligent digital
temperature controller

Appearance	Back-end wiring diagram
	

Type	Product code	Main function	Diagram
XMTG	7001 7002	Two position adjustment	
	7201 7202	Three position adjustment	
	7411 7412	Contact on-off type PID adjustment (with alarm)	
	7511 7512	Driving solid state relay PID adjustment (with alarm)	
	7611 7612	Single-phase phaseshift trigger signal PID adjustment (with alarm)	
	7911 7912	D C0-10mA; 4-20mA and other current PID adjustment	

Appearance	Back-end wiring diagram
	

Terminal wiring diagram



TEMPERATURE CONTROLLER

XM series

Digital display temperature controller

Boundary dimension and hole dimension

Type	Code	Panel size	Meter length	Hole size	Installation distance
XMT	1	160×80	150	152 74	30mm
XMZ	1	160×80	150	152×74	
XMTA	2	96×96	140	92×92	
XMZA	2	96×96	140	92×92	
XMZD	4	72×72	140	68×68	
XMTD	4	72×72	140	68×68	
XMTE	5	48×96	140	44×92	
XMTG	6	48×48	140	44×44	

Product

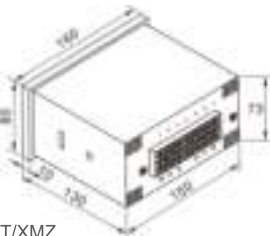

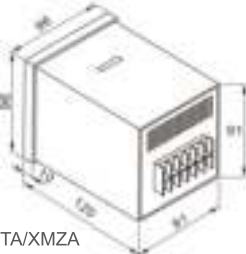
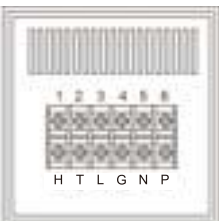
Type	Product code	Main function	Diagram
XMT	101 102	Two position adjustment	
	121 122	Three position adjustment	
	131 132	Time proportional control	
	161 162	Single phase bidirectional SCR phase shifting output	
	171 172	Single phase bidirectional SCR cross zero output	
	181 182	Three phase bidirectional SCR cross zero output	
	191 192	DC0-10mA; 4-20mA continuous PID adjust	
XMTA	2001 2002	Two position adjustment	
	2201 2202	Three position adjustment	
	2301 2302	Time proportional control	
	2601 2602	Single phase bidirectional SCR phase shifting output	
	2701 2702	Single phase bidirectional SCR cross zero output	
	2901 2902	DC0-10mA; 4-20mA continuous PID adjust	
XMTD	3001 3002	Dial setup two position adjustment	
	2201 2202	Potentiometer setup three position adjustment	
	3301 3302	Time proportional control	
	3701 3702	Single phase bidirectional SCR phase shifting output	
	3901 3902	Single phase bidirectional SCR cross zero output	
	3601 3602	DC0-10mA; 4-20mA continuous PID adjust	

XM series

Digital display temperature controller

Type	Product code	Main function	Diagram
XMTE	2001 2002	Dial setup two position adjustment	
	2011 2012	Two position adjustment(with alarm)	
	2301 2302	Time proportional control	
	2701 2702	Single phase bidirectional SCR phase shifting output	
XMTG	3001 3002	Dial setup two position adjustment	
	3301 3302	Time proportional control	
	3701 3702	Single phase bidirectional SCR phase shifting output	
XMZ	101 102	Thermocouple, thermal resistor	
XMZA	2001 2002	Thermocouple, thermal resistor	
XMZD	2001 2002	Thermocouple, thermal resistor	

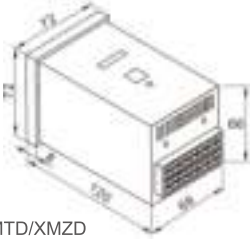
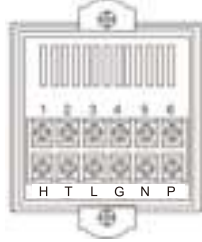
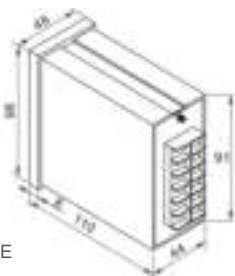
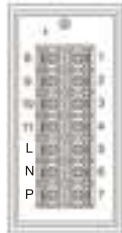
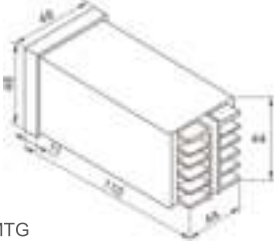

Appearance and back-end wiring diagram

Appearance	Back-end wiring diagram
 XMT/XMZ	 Note: with thermocouple meter,1 connected positive,2connected negative. with thermal resistance meter,1,2 connected negative, 3 connected positive.
 XMTA/XMZA	 Note: with thermocouple meter, 1 connected positive,2connected negative. with thermal resistance meter, 1,2 connected negative, 3 connected positive

TEMPERATURE CONTROLLER

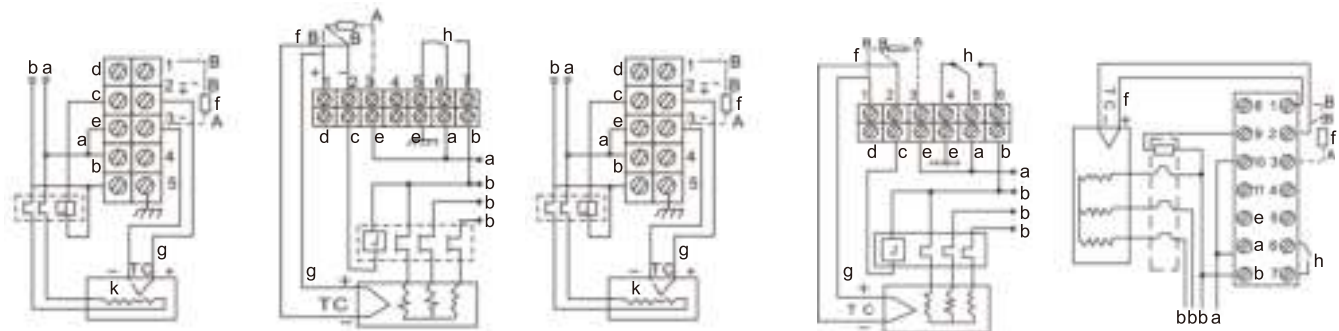
XM series

Digital display temperature controller

Appearance	Back-end wiring diagram
 XMTD/XMZD	 <p>Note: with thermocouple meter, 1 connected positive,2connected negative. with thermal resistance meter, 1,2 connected negative, 3 connected positive.</p>
 XMTE	 <p>Note: with thermocouple meter, 1 connected positive,2connected negative. with thermal resistance meter, 1,2 connected negative, 3 connected positive.</p>
 XMTG	 <p>Note: with thermocouple meter, 1 connected positive,2connected negative. with thermal resistance meter, 1,2 connected negative, 3 connected positive.</p>

Wiring attention

Thermocouple input, the corresponding compensation wire should be used.
The thermal resistance input, three wires with low resistance and cross-sectional area and the same material length should be used.
The input signal line should be away from the power line load of the instrument power cord to avoid noise interference.



a:neutral c:total e:low g:thermocouple k:furnace
b:phase d:high f:thermal resistance h:alarm output n:toplimit

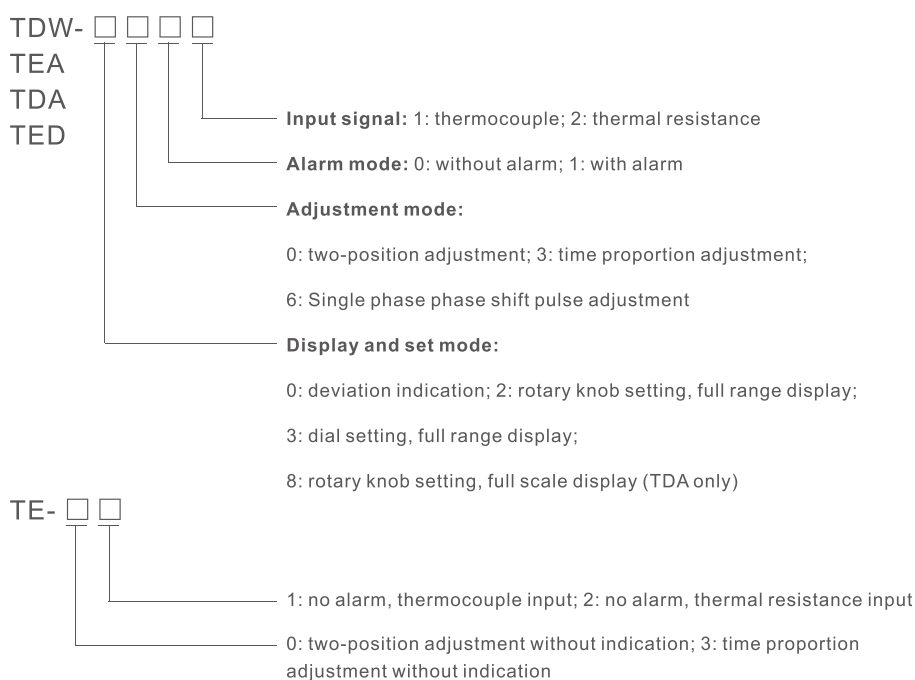
Pointer type

Temperature controller

Application

TDA, TDW, TEA, TED, TE, TDB series pointer type temperature controller is the new automatic instrument produced by our company. The temperature controller has feature of small volume, low weight, good-looking appearance, good reliability, anti-shake and anti-interference performance. The temperature controller equipped with thermocouple has cold-junction compensation function.

Type



Performance

	Index
Display	Pointer type
Input signal	the sensor signal specifies the input
Function	Alarm range: alarm point is that the measured signal exceeds the set value of 2-10% (full range)
Accuracy	$\leq \pm 2.5\%$ $\leq \pm 1.5\%$
Power supply	Transformer supply power: AC220V $\pm 10\%$ 50/60Hz
Insulation strength	2KV/50Hz/1min
Output	Relay contact capacity AC220V3A solid-state relay DC 0-12V Optocoupler silicon controlled 1A/600V
Operating condition	Ambient temperature: 0℃-50℃, humidity 45%-85%, without corrosivity and without strong electromagnetic interference. Altitude: $\leq 2500\text{m}$ Atmospheric pressure: 80-106kpa

TEMPERATURE CONTROLLER

Pointer type

Temperature controller


Dimension and hole size

Type	Code	Panel size	Meter length	Hole size	Installation distance
TDW	1	160×80	150	152 74	30mm
TEA	2	96×96	140	92×92	
TDA	3	60×120	140	55×115	
TED	4	72×72	140	68×68	
TE	6	48×48	140	45×45	

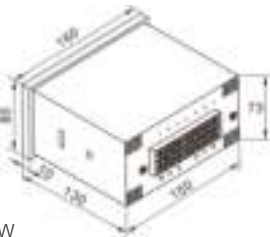

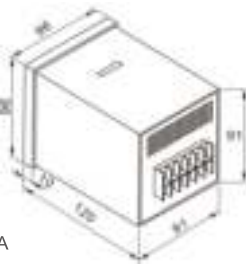
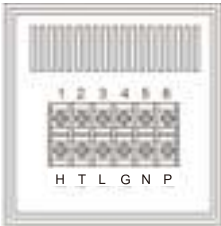
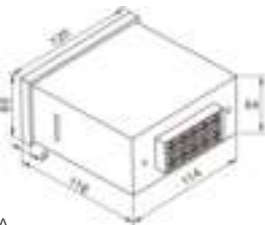


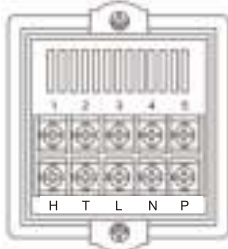
Product

Type	Product code	Main function	Diagram
TDW	2001 2002	Two position adjustment	
	2301 2302	Time proportional adjustment	
	2601 2602	Single phase bidirectional SCR phase shifting output	
	2701 2702	Single phase bidirectional SCR cross zero output	
	2901 2902	DC0-10mA; 4-20mA continuous PID output	
TEA	2001 2002	Two position adjustment	
	2301 2302	Time proportional adjustment	
	2601 2602	Single phase bidirectional SCR phase shifting output	
	2701 2702	Single phase bidirectional SCR cross zero output	
	2901 2902	DC0-10mA; 4-20mA continuous PID output	
TDA	8001 8002	Two position adjustment	
	8301 8302	Time proportional adjustment	
	8601 8602	Single phase bidirectional SCR phase shifting output	
	8701 8702	Single phase bidirectional SCR cross zero output	
	8901 8902	DC0-10mA; 4-20mA continuous PID output	
TED	2001 2002	Two position adjustment	
	2301 2302	Time proportional adjustment	
	2601 2602	Single phase bidirectional SCR phase shifting output	
	2701 2702	Single phase bidirectional SCR cross zero output	
	2901 2902	DC0-10mA; 4-20mA continuous PID output	

Pointer type
Temperature controller

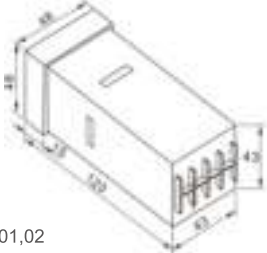
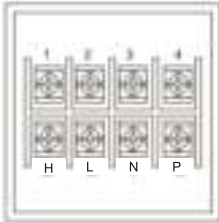
Type	Product code	Main function	Diagram
TE	01 02	Two position adjustment	
	31 32	Time proportional adjustment	

Appearance and back-end wiring diagram

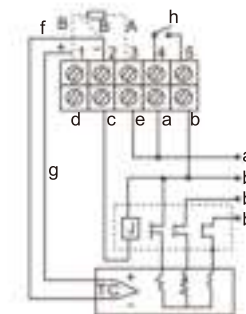
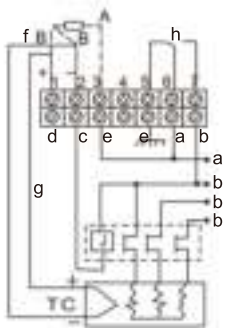
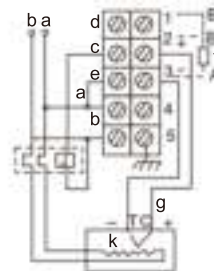
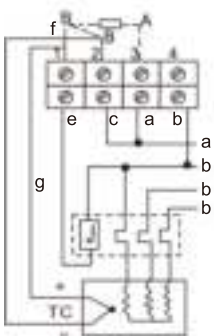
Appearance	Back-end wiring diagram
 <p>TDW</p>	 <p>Note: with thermocouple meter, 1 connected positive, 2 connected negative. with thermal resistance meter, 1, 2 connected negative, 3 connected positive.</p>
 <p>TEA</p>	 <p>Note: with thermocouple meter, 1 connected positive, 2 connected negative. with thermal resistance meter, 1, 2 connected negative, 3 connected positive.</p>
 <p>TDA</p>	 <p>Note: with thermocouple meter, 1 connected positive, 2 connected negative. with thermal resistance meter, 1, 2 connected negative, 3 connected positive.</p>
 <p>TEI</p>	 <p>Note: with thermocouple meter, 1 connected positive, 2 connected negative. with thermal resistance meter, 1, 2 connected negative, 3 connected positive.</p>

TEMPERATURE CONTROLLER

Pointer type Temperature controller

Appearance	Back-end wiring diagram
 <p>TE-01,02</p>	 <p>Note : with thermocouple meter, 1 connected positive,2connected negative. with thermal resistance meter, 1,2 connected negative, 3 connected positive.</p>

Wiring attention

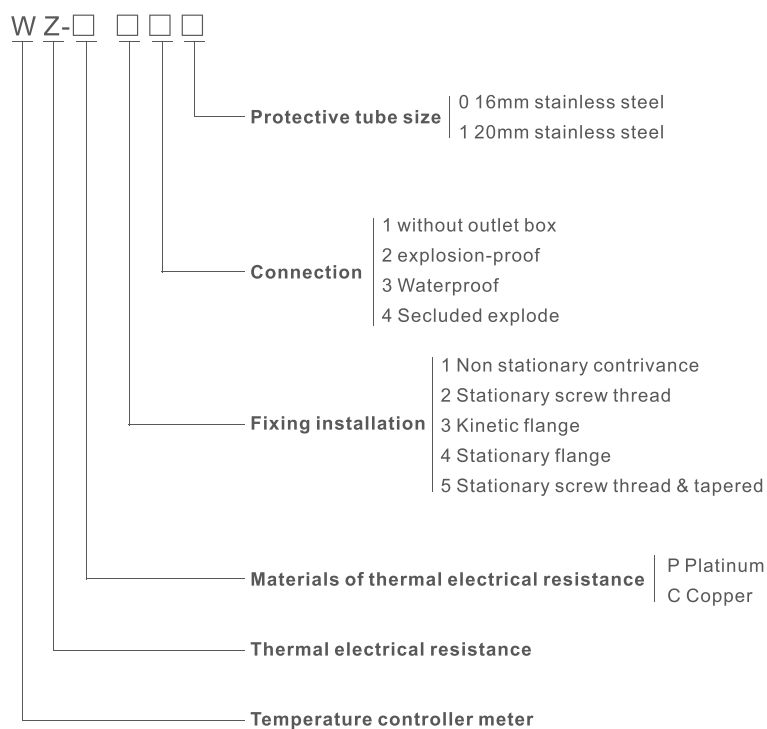
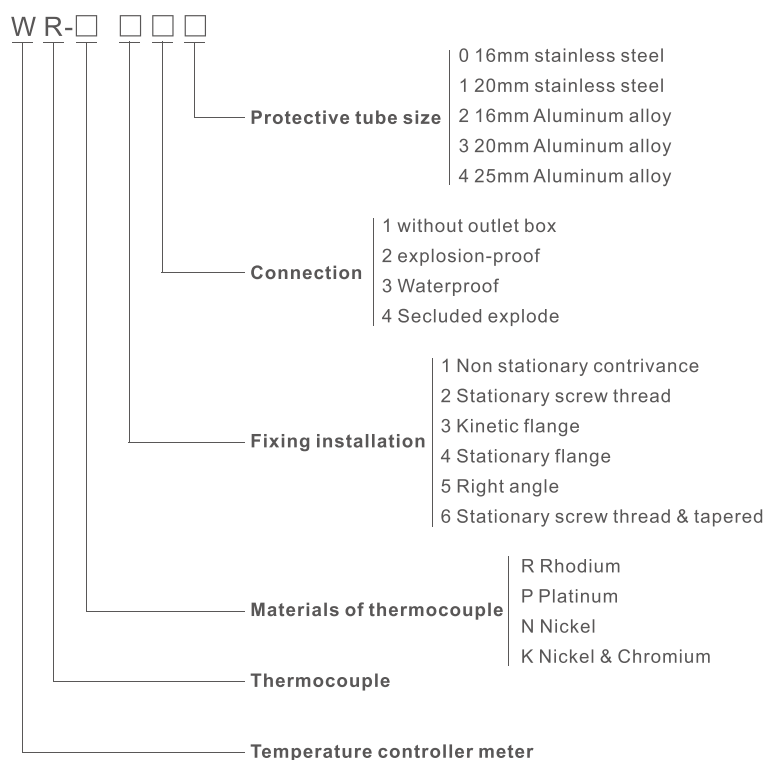


- a:neutral
- b:phase
- c:total
- d:high
- e:low
- f:thermal resistance
- g:thermocouple
- h:alarm output
- k:furnace

WR/WZ series

Thermocouple series and
Thermal Resistance series

Type illustration



TEMPERATURE CONTROLLER

WR/WZ series

Thermocouple series and Thermal Resistance series



Performance

Spring, Mini pin, Probe, thermocouple series

Name	Type	Calibration	Structure characteristic
Spring	WRKT-01	E(EA-2)	Fixed screw:M12X1.5 , M10X1.5 , M8X1 Head length:30X35 , 60X70
	WRNT-01	K(Eu-2)	
Mini.Pin	WRKX-31	E(EA-2)	Fixed screw: M6X1 , M8X1
	WRNX-31	K	
Probe	WRKT-13	E	Fixed Screw:M12X1 , M12X1.5 Copper tube:Φ7 Stainless steel:Φ6 Φ8
	WRNT-13	K	
	WZCT-13	Cu50	
	WZPT-13	Pt100	
Ring	WRKT-04	E	The diameter of the ring and the length of the wire according to the customer's requirement
	WRNT-04	K	

Platinum-rhodium fabricated thermocouple series



Name	Type	Insulation	Calibration	Protected pipe material	Diameter of pipe	Measure range°C
Platinum-rhodium10-platinum	WRP-120-130	No fixed mounting	S(LB-3)	High alumina (ceramic)	Φ16	0-1600°C
	WRP-121-131				Φ25	
	WRP-320-330	Movable flange mounting			Φ16	
	WRP-321-331				Φ25	
Platinum-rhodium30-platinum6	WRR-120-130	No fixed mounting	B(LL-2)	Adamantine	Φ16	0-1800°C
	WRR-121-131				Φ25	
	WRR-320-330	Movable flange mounting			Φ16	
	WRR-321-331				Φ25	

Fabricated thermal resistance series



Name	Type	Insulation	Calibration	Protected pipe material	Diameter of pipe	Measure range°C
Nickel hromiumnikel silicom	WRN-120-130	No fixed mounting	K(Eu-2)	1Cr18Ni9Ti Stainless Steel	Φ16	0-1100°C
	WRN-121-131			1Cr18Ni9Ti	Φ20	
	WRN-122			High alumina	Φ16	0-1300°C
	WRN-123				Φ20	
Nickel chromium constantan	WRK-120-130	No fixed mounting	E(EA-2)	1Cr18Ni9Ti Stainless Steel	Φ16	0-800°C
	WRK-121-131			1Cr18Ni9Ti	Φ20	
	WRK-122			High alumina	Φ16	
	WRK-123				Φ20	

WR/WZ series

Thermocouple series and Thermal Resistance series



Fabricated thermal resistance series

Name	Type	Insulation	Calibration	Protected pipe material	Diameter of pipe	Measure range°C
Nickel hromiumnikel silicom	WRN-220-230	Fixed thread M27X2 G3/4 M33X2	K(Eu-2)	1Cr18Ni9Ti Stainless Steel 1Cr18Ni9Ti	Φ16	0-1100°C
	WRN-221-231				Φ20	
Nickel chromium constantan	WRK-220-230	Fixed thread M27X2 G3/4 M33X2	E(EA-2)	1Cr18Ni9Ti Stainless Steel 1Cr18Ni9Ti	Φ16	0-800°C
	WRK-221-231				Φ20	



Fabricated thermal resistance series

Name	Type	Insulation	Calibration	Protected pipe material	Diameter of pipe	Measure range°C
Nickel hromiumnikel silicom	WRN-320-330	Movable flange mounting	K(Eu-2)	1Cr18Ni9Ti Stainless Steel 1Cr18Ni9Ti	Φ16	0-1100°C
	WRN-321-331				Φ20	
Nickel chromium constantan	WRK-320-330	Movable flange mounting	E(EA-2)	1Cr18Ni9Ti Stainless Steel 1Cr18Ni9Ti	Φ16	0-800°C
	WRK-321-331				Φ20	



Fabricated thermal resistance series

Name	Type	Insulation	Calibration	Protected pipe material	Diameter of pipe	Measure range°C
Nickel hromiumnikel silicom	WRN-420-430	Movable flange mounting	K(Eu-2)	1Cr18Ni9Ti Stainless Steel 1Cr18Ni9Ti	Φ16	0-1100°C
	WRN-421-431				Φ20	
Nickel chromium constantan	WRK-420-430	Movable flange mounting	E(EA-2)	1Cr18Ni9Ti Stainless Steel 1Cr18Ni9Ti	Φ16	0-800°C
	WRK-421-431				Φ20	



Fabricated thermal resistance series

Name	Type	Insulation	Calibration	Protected pipe material	Diameter of pipe	Measure range°C
Platinum	WZP-120-130	No fixed mounting	Pt100 BA1 BA2 Pt10	1Cr18Ni9Ti Stainless Steel 1Cr18Ni9Ti	Φ16	-200-500°C
	WZP-121-131				Φ12	
Copper resistance	WZC-120-130	No fixed mounting	Cu50 Cu100 G	1Cr18Ni9Ti Stainless Steel 1Cr18Ni9Ti	Φ16	-50-150°C
	WZC-121-131				Φ12	



Fabricated thermal resistance series

Name	Type	Insulation	Calibration	Protected pipe material	Diameter of pipe	Measure range°C
Platinum	WZP-220-230	Fixed thread M27X2 G3/4 G1/2 M33X2	Pt100 BA1 BA2 Pt10	1Cr18Ni9Ti Stainless Steel 1Cr18Ni9Ti	Φ16	-200-500°C
	WZP-221-231				Φ12	
Copper resistance	WZC-220-230	Fixed thread M27X2 G3/4 G1/2 M33X2	Cu50 Cu100 G	1Cr18Ni9Ti Stainless Steel 1Cr18Ni9Ti	Φ16	-50-150°C
	WZC-221-231				Φ12	

TEMPERATURE CONTROLLER

WR/WZ series

Thermocouple series and Thermal Resistance series



Fabricated thermal resistance series

Name	Type	Insulation	Calibration	Protected pipe material	Diameter of pipe	Measure range°C
Platinum	WZP-320-330	Movable flange mounting	Pt100 BA1 BA2 Pt10	1Cr18Ni9Ti Stainless Steel	Φ16	-200-500°C
	WZP-321-331				Φ12	
Copper resistance	WZC-320-330		Cu50 Cu100 G	1Cr18Ni9Ti	Φ16	-50-150°C
	WZC-321-331				Φ12	



Fabricated thermal resistance series

Name	Type	Insulation	Calibration	Protected pipe material	Diameter of pipe	Measure range°C
Platinum	WZP-320-330	Fixed flange	Pt100 BA1 BA2 Pt10	1Cr18Ni9Ti Stainless Steel	Φ16	-200-500°C
	WZP-321-331				Φ12	
Copper resistance	WZC-320-330		Cu50 Cu100 G	1Cr18Ni9Ti	Φ16	-50-150°C
	WZC-321-331				Φ12	



Components of thermocouple and thermal resistance

Name	Type	Insulation	Protected pipe material	Diameter of pipe	Measure range°C
Nickel hromiumnikel silicom	WRN-010	K(Eu-2)	Slime	Φ8 Φ11	0-1100°C
Nickel chromium constantan	WRK-010	E(EA-2)	Slime	Φ8 Φ11	0-800°C



Components of thermocouple and thermal resistance

Name	Type	Insulation	Protected pipe material	Diameter of pipe	Measure range°C
Platinum	WZP-010	Pt100 BA1 BA2 Pt10	Mica	Φ12	-200-500°C
	WZP-011			Φ8	
				Φ6	
	WZP-012		Ceramic, glass metal (two/three lines)	Φ1.6	-200-300°C
	WZP-001			Φ2.2	
				Φ3	
	WZP-035S			Φ4	
Copper resistance		Cu50 Cu100 G	Metal	Φ5	-50-150°C
				Φ6	
				Φ8	

MSQ series

Current transformer



MSQ-30B

Application

This series of CT can be applied to test, control, display and record the running of the electrical equipment, and to protect the equipment against the damage. In the AC circuit with the rated voltage value below 720V and the frequency of 50-60Hz. The product can be also applied to form a complete set of main transformer.

The products comply with VDE 0414, BS7626 and IEC61869-2 standard.

Technical characteristics of current transformers

With busbar

Type	Rated Current(A)	Rated Power(VA)		Weight(kg)
		Class 0.5	Class 1.0	
MSQ-30B	5/5	5-10	5-10	0.60
	10/5	5-10	5-10	0.60
	15/5	5-10	5-10	0.60
	20/5	5-10	5-10	0.60
	25/5	5-10	5-10	0.60
	30/5	5-10	5-10	0.60
	40/5	5-10	5-10	0.60
	50/5	5-10	5-10	0.60
	60/5	5-10	5-10	0.60
	75/5	5-10	5-10	0.60
	80/5	5-10	5-10	0.60
	100/5	5-10	5-10	0.60
	120/5	5-10	5-10	0.60
	125/5	5-10	5-10	0.60
	150/5	5-10	5-10	0.60
	200/5	5-10	5-10	0.60
	250/5	5-10	5-10	0.60



MSQ-30T

Windows type

Bar:30×10mm. Conductor: φ20mm.

Type	Rated Current(A)	Rated Power(VA)		Weight(kg)
		Class 0.5	Class 1.0	
MSQ-30T	100/5	2.5-5	5	0.62
	125/5	3-5	5-10	0.62
	150/5	5-10	5-10	0.62
	160/5	5-10	5-10	0.62
	200/5	5-10	5-10	0.62
	250/5	5-10	5-10	0.62

CURRENT TRANSFORMER

MSQ series

Current transformer



MSQ-30

Windows type

Bar:30×10mm. Conductor: φ20mm.

Type	Rated Current(A)	Rated Power(VA)		Weight(kg)
		Class 0.5	Class 1.0	
MSQ-30	30/5	–	1.0	0.4
	40/5	–	1.0	0.4
	50/5	–	1.0	0.4
	60/5	–	1.0	0.4
	75/5	1	1.5	0.4
	80/5	1.5	2.5	0.4
	100/5	2.5	5.0	0.4
	150/5	5-10	5-10	0.4
	200/5	5-10	5-10	0.4
	250/5	5-10	5-10	0.4
	300/5	5-10	5-10	0.4



MSQ-40

Windows type

Bar:40×10mm. Conductor: φ30mm.

Type	Rated Current(A)	Rated Power(VA)		Weight(kg)
		Class 0.5	Class 1.0	
MSQ-40	100/5	2.5	2.5	0.38
	150/5	3.0	5.0	0.38
	200/5	5.0	5-10	0.38
	250/5	5-10	5-10	0.38
	300/5	5-10	5-10	0.38
	400/5	5-10	5-10	0.38
	500/5	5-10	5-10	0.38



MSQ-60

Windows type

Bar:60×20mm. Conductor: φ40mm.

Type	Rated Current(A)	Rated Power(VA)		Weight(kg)
		Class 0.5	Class 1.0	
MSQ-60	250/5	5.0	5.0	0.60
	300/5	5.0	5.0	0.60
	400/5	5-10	5-10	0.60
	500/5	5-10	5-15	0.60
	600/5	10-15	10-15	0.60
	750/5	10-15	10-15	0.60
	800/5	10-15	10-15	0.60
	1000/5	15.0	15.0	0.60



MSQ-100

Windows type

Bar:80×30mm.or 100×10mm. Conductor: φ60mm.

Type	Rated Current(A)	Rated Power(VA)		Weight(kg)
		Class 0.5	Class 1.0	
MSQ-100	1500/5	15	15	0.80
	1600/5	15	15	0.80
	2000/5	15	15	0.94
	2250/5	15	15	0.98
	2500/5	15	15	1.10
	3000/5	15	15	1.16

MSQ series

Current transformer



MSQ-85



MSQ-125



PX-125

Windows type Bar:82×30mm. Conductor: φ80mm.

Type	Rated Current(A)	Rated Power(VA)		Weight(kg)
		Class 0.5	Class 1.0	
MSQ-85	750/5	15	15	0.75
	800/5	15	15	0.82
	1000/5	15	15	0.89
	1200/5	15	15	0.99
	1500/5	15	15	1.02

Windows type Bar:125×57mm.or 125×10mm. Conductor: φ60mm.

Type	Rated Current(A)	Rated Power(VA)		Weight(kg)
		Class 0.5	Class 1.0	
MSQ-125	1500/5	15	15	1.0
	2000/5	15	15	1.15
	2500/5	15	15	1.45
	3000/5	15	15	1.60
	4000/5	15	15	1.90
	5000/5	15	15	2.20

Windows type Bar:125×38mm. Conductor: φ60mm.

Type	Rated Current(A)	Rated Power(VA)		Weight(kg)
		Class 0.5	Class 1.0	
PX-125	800/5	7.5	15	1.0
	1000/5	10	20	1.0
	1200/5	10	20	1.0
	1250/5	12.5	25	1.0
	1500/5	15	30	1.0
	1600/5	15	30	1.05
	2000/5	15	30	1.15
	2250/5	15	30	1.20
	2500/5	15	30	1.45
	3000/5	15	30	1.60
	4000/5	15	30	1.90
	5000/5	15	30	2.20

CURRENT TRANSFORMER

MES series

Current transformer



MES-62/20B



MES-62/20



MES-62/30



MES-62/40

Application

The MES series of current transformer are convenient for mounting in many ways. The most current transformer need the special mounting and the MES series used the mounting of DIN typing without a lot of times. The protective cover for the terminal block used the switching device with safety and quick.

Mes guide rail type CT

Primary current: 5A-3000A
Secondary current: 5A, 1A
Standard approval: VDE0414, BS7626, IEC61869-2
Maximum voltage: 0.72/3KV
Frequency: 50-60Hz
Rated load: 2.5VA, 5VA, 10VA, 15VA
Class: 0.5, 1.0
Short-time thermal current: $I_{th}=60 \times 1h$
Rated security efficient: $F_s < 5$

Technical characteristics of current transformers

Type	Rated Current(A)	Rated Power(VA)	
		Class 0.5	Class 1.0
MES-62/20B	5/5	2.5	5
	10/5	2.5	5
	15/5	2.5	5
	20/5	2.5	5
	25/5	2.5	5
	30/5	2.5	5
	40/5	2.5	5
	50/5	2.5	5
	60/5	2.5	5
	75/5	2.5	5
	100/5	2.5	5
	150/5	2.5	5
MES-62/20	30/5	–	1
	40/5	–	1
	50/5	1.0	2
	60/5	1.0	2
	75/5	1.5	3
	80/5	1.5	3
	100/5	2.0	3.75
	150/5	2.5	5
	200/5	3.0	5

MES series

Current transformer



MES-80/30



MES-80/40



MES-100/60



MES-145/100

Type	Rated Current(A)	Rated Power(VA)	
		Class 0.5	Class 1.0
MES-62/30	30/5	-	1
	40/5	-	1
	50/5	-	1
	60/5	-	1.5
	75/5	-	1.5
	100/5	1.5	2.5
	150/5	2	3
	200/5	2.5	5
MES-62/40	60/5	-	1
	75/5	-	1
	100/5	1	2
	150/5	1.5	2.5
	200/5	2.5	5
	250/5	3	5
MES-80/30	300/5	5	7.5
	30/5	-	1
	50/5	-	1
	60/5	-	2
	75/5	-	2.5
	100/5	1.5	5
	150/5	2.5	5
MES-80/40	200/5	5	7.5
	100/5	1.5	2.5
	150/5	2.5	5
	200/5	5	5
	250/5	5	5
	300/5	10	15
	400/5	10	15
	500/5	10	15
MES-100/60	600/5	15	20
	800/5	15	20
	1000/5	15	20
	1200/5	15	20
MES-145/100	1000/5	15	30
	1200/5	15	30
	1500/5	15	30
	1600/5	15	30
	2000/5	15	30
	2500/5	15	30
	3000/5	15	30

CURRENT TRANSFORMER

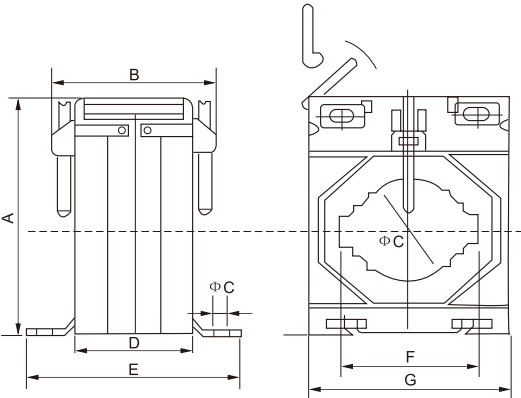
MES series

Current transformer

Dimension of case(mm)

Model	A	B	C	D	E	F	G
MES-62/20B	81	47	20B	35	71	20B	62
MES-30/20	81	47	20	35	71	20	62
MES-62/30	81	47	30	35	71	31	62
MES-62/40	81	47	30	35	71	41	62
MES-89/30	88	52	30	41	77	31	80
MES-89/40	88	52	30	41	77	41	80
MES-100/60	117	57	50	184	77	61	101
MES-145/100	115	53	86	38	74	101	145

Outline drawing



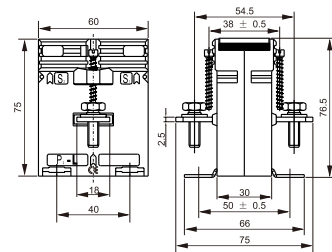
MBO series

Current transformer



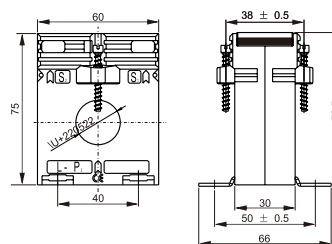
MBO-62/B

Type	Rated Current(A)	Rated Power(VA)	
		Class 0.5	Class 1.0
MBO-62/B	5/5	2.5	5
	10/5	2.5	5
	15/5	2.5	5
	20/5	2.5	5
	25/5	2.5	5
	30/5	2.5	5
	40/5	2.5	5
	50/5	2.5	5
	60/5	2.5	5
	75/5	2.5	5
	100/5	2.5	5
	150/5	2.5	5



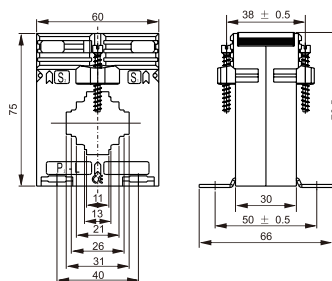
MBO-62/20

Type	Rated Current(A)	Rated Power(VA)	
		Class 0.5	Class 1.0
MBO-62/20	30/5	—	1
	40/5	—	1
	50/5	1	2
	60/5	1	2
	75/5	1.5	3
	80/5	1.5	3
	100/5	2	3.75
	150/5	2.5	5
	200/5	3	5



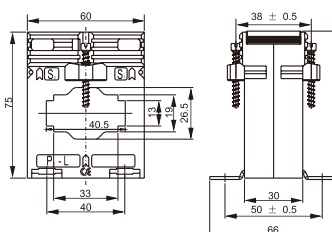
MBO-62/30

Type	Rated Current(A)	Rated Power(VA)	
		Class 0.5	Class 1.0
MBO-62/30	30/5	—	1
	40/5	—	1
	50/5	—	1
	60/5	—	1.5
	75/5	—	1.5
	100/5	1.5	2.5
	150/5	2	3
	200/5	2.5	5



MBO-62/40

Type	Rated Current(A)	Rated Power(VA)	
		Class 0.5	Class 1.0
MBO-62/40	60/5	—	1
	75/5	—	1
	100/5	1	2
	150/5	1.5	2.5
	200/5	2.5	5
	250/5	3	5
	300/5	5	7.5



CURRENT TRANSFORMER

MBO series

Current transformer



MBO-60

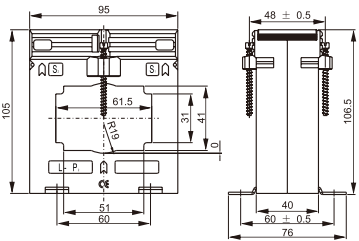


MBO-70

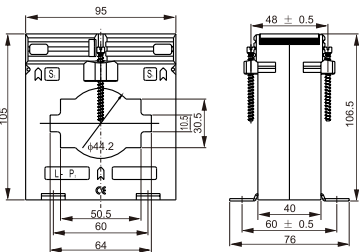


MBO-100

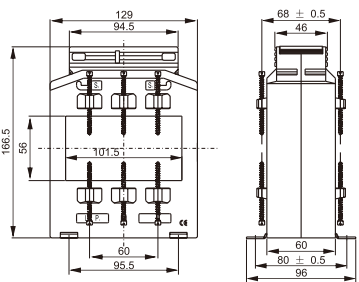
Type	Rated Current(A)	Rated Power(VA)	
		Class 0.5	Class 1.0
MBO-60	300/5	10	15
	400/5	10	15
	500/5	10	15
	600/5	15	20
	750/5	15	20
	800/5	15	20
	1000/5	20	25
	1200/5		30



Type	Rated Current(A)	Rated Power(VA)	
		Class 0.5	Class 1.0
MBO-70	400/5	10	15
	500/5	10	15
	600/5	10	15
	750/5	15	20
	800/5	15	20
	1000/5	20	25
	1200/5	30	30
	1500/5	30	40
	1600/5	40	40
	2000/5		50



Type	Rated Current(A)	Rated Power(VA)	
		Class 0.5	Class 1.0
MBO-100	750/5	15	20
	800/5	15	20
	1000/5	15	20
	1200/5	15	20
	1500/5	15	20
	1600/5	20	20
	2000/5	20	40
	2250/5	20	40
	2500/5	20	50
	3000/5		50



NSQ series

Current transformer



NSQ-30



NSQ-35



NSQ-40



NSQ-60



NSQ-100

Application

Primary current: 30A-3000A
Secondary current: 5A,10A
Standard approval: BS7626,IEC61869-2
Maximum voltage: 0.66KV
Frequency: 50-60Hz
Rated load: 2.5VA, 15VA
Class:0.5,1.0,3.0
Short-time thermal current: I_{th}=60×I_n
Rated security efficient: F_s<5

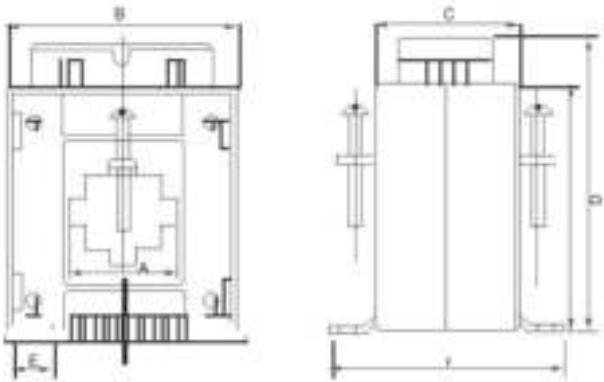
Technical characteristics of current transformers

Mode	Primary/ Secondary	Busbar Hole Dimension	Rated Burden(VA)	Class	Rated Voltage	Rated Frequency
NSQ-30	30/5A-300/5A	30×10mm	2.5-5	0.5/1.0	0.72	50/60Hz
NSQ-35	50/5A-400/5A	35×10mm	5	0.5/1.0	0.72	50/60Hz
NSQ-40	100/5A-600/5A	40×10mm	10	0.5/1.0	0.72	50/60Hz
NSQ-60	600/5A-1600/5A	60×10mm	15	0.5/1.0	0.72	50/60Hz
NSQ-100	800/5A-3000/5A	100×10mm	15	0.5/1.0	0.72	50/60Hz

Dimension of case(mm)

Mode	A	B	C	D	E	F
NSQ-30	30	78	46	95	112	70
NSQ-35	40	70	46	84	100	70
NSQ-40	45	80	46	87	104	70
NSQ-60	60	110	53	130	148	80
NSQ-100	100	155	53	174	191	80

Outline drawing



CURRENT TRANSFORMER

TP series

Current transformer



TP-88



TP-812

Application

The TP series split core current transformer has been specially designed to facilitate their installation in new or already existing net works. They may be installed without opening any cable or bus-bar circuit. The connection of conventional CTs usually requires the interruption of the primary side current to pass cables or bus-bar through the transformer core to connect such cables to the primary terminals.
Standard: IEC61869-2.

Feature

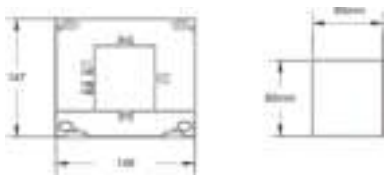
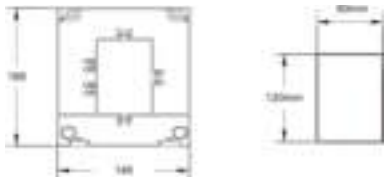
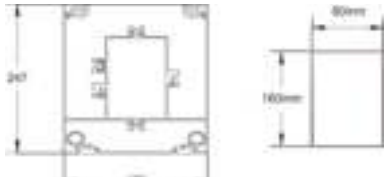
- Two built in fixing methods: panel/bus-bar
- Very easy to install
- Wide inner window, allowing clamping of big cables or bus-bars
- Wide range of sizes to accommodate all the existing installation
- Primary current from 5A to 5000A

Specifications

Rated Frequency	50/60Hz
Rated Test Voltage	3Kv AC (1min)
Rated short-time thermal current (Ith)	60In 2.5Ith
Rated dynamic current (Idyn)	0.72Kv AC
Rated voltage(Um)	1.2In
Continuous overload(Id)	-10°C~65°C
Operating temperature	E
Housing self-extinguishing class	Fs5
Safety factor	5A/1A
Secondary current	

Technical characteristics of current transformers

Type	Rated Current(A)	Rated Power(VA)		Outline Drawing
		Class 0.5	Class 1.0	
TP-23	100/5	—	1.5	
	150/5	—	1.5	
	200/5	—	1.5	
	250/5	—	1.5	
	300/5	1.5	2.5	
	400/5	2.5	3.75	
TP-58	250/5	—	1.5	
	300/5	—	2.5	
	400/5	1.5	2.5	
	500/5	2.5	5	
	600/5	2.5	5	
	750/5	5	5	
	800/5	5	5	
	1000/5	5	10	

Type	Rated Current(A)	Rated Power(VA)		Outline Drawing
		Class 0.5	Class 1.0	
TP-88	250/5	-	1.5	
	300/5	-	1.5	
	400/5	-	2.5	
	500/5	1.5	2.5	
	600/5	1.5	2.5	
	750/5	2.5	5	
	800/5	3.75	5	
	1000/5	5	7.5	
TP-812	500/5	-	2.5	
	600/5	-	2.5	
	750/5	2.5	5	
	800/5	2.5	5	
	1000/5	5	10	
	1200/5	5	10	
	1250/5	5	10	
	1500/5	5	10	
TP-816	1000/5	5	10	
	1500/5	7.5	10	
	2000/5	10	15	
	2500/5	15	20	
	3000/5	20	25	
	4000/5	20	25	
	5000/5	20	25	
	6000/5	20	25	

CURRENT TRANSFORMER

PX1 series

Current transformer



PX1-20



PX1-30



PX1-40



PX1-20L



PX1-30L

Application

Model PX1-20,PX1-30,PX1-40 are available for connecting with cable,and also available for connecting with bus bar.

Maximum voltage: 0.66KV
Frequency: 50-60Hz
Class: 1.0
Short-time thermal current: $I_{th}=60\times I_h$
Mounting methods: either by din rail(35mm)or by screws
Window dimensions: diameter 22mm(PX1-20,PX1-20L)
31×10mm(PX1-30,PX130L)
41×10mm(PX1-40)

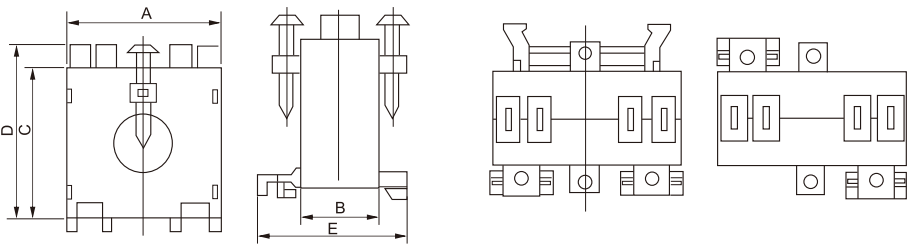
Technical characteristics of current transformers

Mode	Primary/Secondary	Busbar Hole Dimension	Rated Burden(VA)	Class	Rated Voltage
PX1-20	50/5A-150/5A	φ: 20mm	1.5-2.5	1.0	660V
PX1-30	100/5A-500/5A	30×10mm	1.5-2.5	1.0	660V
PX1-40	150/5A-1000/5A	40×10mm	3-10	1.0	660V
PX1-20L	50/5A-150/5A	φ: 20mm	1.5-2.5	1.0	660V
PX1-30L	100/5A-500/5A	30×10mm	1.5-.5	1.0	660V

Dimension of case(mm)

Mode	A	B	C	D	E
PX1-20	53	28	57	66	54
PX1-30	53	28	57	66	54
PX1-40	71	45	73	81	65
PX1-20L	53	28	57	66	54
PX1-30L	53	28	57	66	54

Outline drawing



PS series

Current transformer



PSM-20B



PS-30



PS-60



PS-100

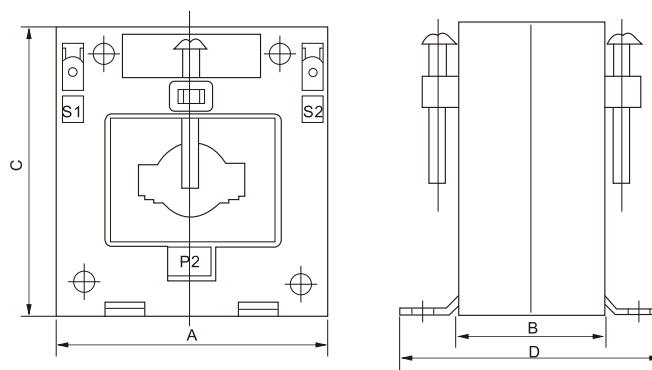
Technical characteristics of current transformers

Mode	Primary/ Secondary	Busbar Hole Dimension	Rated Burden(VA)	Class	Rated Voltage	Rated Frequency
PSM-20B	50/5A-200/5A	-	1.5-3	1.0	660V	50/60Hz
PSM-20	50/5A-200/5A	20×10mm	1.5-3	1.0	660V	50/60Hz
PSM-30	50/5A-200/5A	20×10mm	1.5-3	1.0	660V	50/60Hz
PS-30	50/5A-300/5A	30×10mm	2.5-5	1.0	660V	50/60Hz
PS-40	150/5A-800/5A	40×10mm	5-10	1.0	660V	50/60Hz
PS-60	400/5A-1000/5A	60×10mm	10	1.0	660V	50/60Hz
PS-100	800/5A-3000/5A	100×10mm	15	1.0	660V	50/60Hz

Dimension of case(mm)

Mode	A	B	C	D
PS-20A	56	30	63	80
PS-20	56	30	63	50
PS-30	56	30	63	50
PS-30	79	42	87	66
PS-40	79	42	87	66
PS-60	103	42	113	66
PS-100	151	42	166	69

Outline drawing



CURRENT TRANSFORMER

CPS series

Current transformer



CPS-40



CPS-60



CPS-80



CPS-100



CPS-120

Application

Primary current: 100A-5000A
Secondary approval: 5A, 1A
Standard current: BS7626, IEC61869-2
Maximum voltage: 0.72KV
Frequency: 50-60Hz
Rated load: 2.5VA-60VA
Class: 0.5, 1.0, 3.0
Short-time thermal current: $I_{th}=100\times I_h$
Rated security coefficient: $F_s<5$
-High fire retardancy and security.
-Wide range of sizes to accommodate all the existing installations.

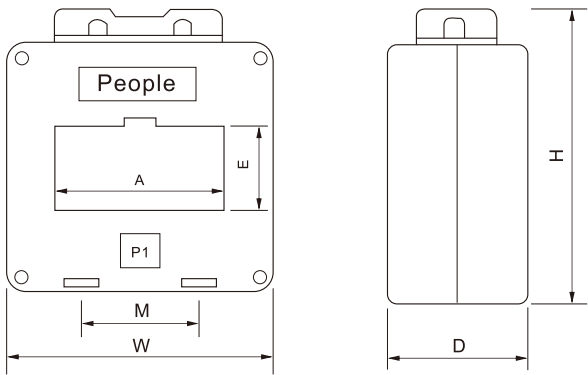
Specification

Mode	Primary/secondary(A)
CPS-40	100/5, 150/5, 200/5, 250/5, 300/5, 400/5, 500/5, 600/5A
CPS-60	300/5, 400/5, 500/5, 600/5, 750/5, 800/5, 1000/5, 1200/5A
CPS-80	500/5, 600/5, 750/5, 800/5, 1000/5, 1200/5, 1500/5, 1600/5A
CPS-100	600/5, 750/5, 800/5, 1000/5, 1200/5, 1500/5, 1600/5, 2000/5A, 2500/5, 3000/5A
CPS-120	1000/5, 1200/5, 1500/5, 1600/5, 2000/5, 2500/5, 3000/5, 4000/5A, 5000/5

Dimension of case(mm)

Mode	Dimensions			Busbar hole dimension		Installation dimension
	W	H	D	A	E	M
CPS-40	75	105	45	42	32	45
CPS-60	98	116	45	62	32	42
CPS-80	118	120	45	82	32	60
CPS-100	140	130	49	102	32	80
CPS-120	165	152	49	102	53	80

Outline drawing



RCT series

Current transformer



RCT-25



RCT-35



RCT-60



RCT-90



RCT-110

Application

Primary current: 30A-3000A
Secondary current: 5A,1A
Standard approval: IEC61869-2
Maximum voltage: 0.66KV
Frequency: 50-60Hz
Rated load: 15VA
Class: 1.0
Short-time thermal current: $I_{th}=60\times I_h$
Rated security efficient: $F_s<5$

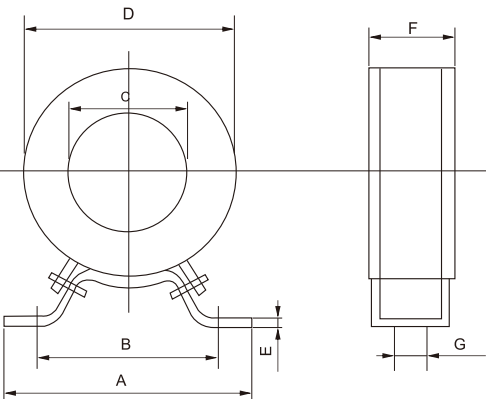
Specification

Mode	Primary/secondary(A)
RCT-25	15/5,200/5,30/5,40/5,50/5,60/5,75/5,100/5A
RCT-35	30/5,50/5,60/5,80/5,100/5,120/5,150/5,200/5A,250/5,300/5
RCT-60	300/5,400/5,500/5,600/5,800/5,1000/5,1200/5
RCT-90	800/5,1000/5,1200/5,1500/5,1600/5
RCT-110	1000/5,1200/5,1500/5,1600/5,2000/5,2500/5,3000/5

Dimension of case(mm)

Mode	RCT-25	RCT-35	RCT-60	RCT-90	RCT-110
A	93	93	93	93	102
B	78	78	78	78	86
C	25	25	60	90	111
D	78	78	104	136	157
E	2	2	2	2	2
F	55	55	41	41	52
G	9	9	9	9	9

Outline drawing



CURRENT TRANSFORMER

MR series

Current transformer



Application

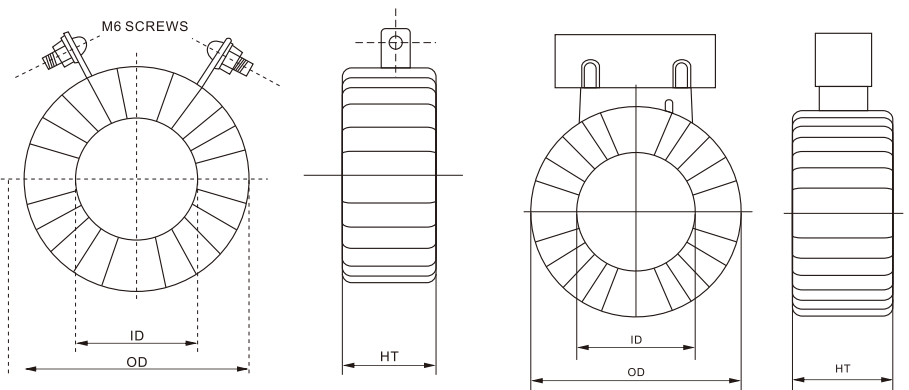
Primary current: 30A-5000A
Secondary current: 5A, 1A
Standard approval: IEC61869-2
Maximum voltage: 0.72KV
Frequency: 50-60Hz
Rated load: 5VA-15VA
Class: 1.0, 3.0
Short-time thermal current: $I_{th}=60 \times I_h$
Rated security efficient: $F_s < 5$

Specification

Mode	Specification	ID	CD	HT
MR-28(L)	30/5A-60/5A	28	70	40
MR-42(L)	100/5A-250/5A	42	80	30
MR-45(L)	300/5A	45	80	30
MR-60(L)	400/5A	60	100	30
MR-60(L)	500/5A 600/5A	60	100	30
MR-85(L)	800/5A-1600/5A	85	120	20
MR-125(L)	2000/A-5000/5	125	165	20

Noted: For measuring current transformers, the accuracy class is designated by the highest permissible percentage current(ratio)error at the rated current prescribed for the accuracy class concerned.

Outline drawing



PR series

Current transformer



Application

Protective current transformers are required to operate over a range of current many times the circuit rating and is frequently suVacuum circuit breaker

Onboard

17,5KV

50/60hz

I.R. 1250A

ISC 12,5KA

TK 3subjected to conditions greatly exceeding those which it would be subjected to as a measuring current transformer. When a current transformer is used to energise a protective relay, it must maintain its characteristic ratio up to some multiple of its rated current. This multiple, may be 5, 10,20 or some even higher value and is know as Accuracy Limit Factor (ALF). Therefore,the selection of Protective Current Transformers in relation to accuracy class and ALF require a close examination of relay characteristic and circuit condi-tions which includes the relay burden and the pilot wire lead burden.

Dimensions(mm)

CI:10P5 15VA

Spec.	60/5A	100/5A	150/5A	200/5A	250/5A	300/5A	400/5A	500/5A	600/5A
OD	100	100	100	100	96	96	100	100	100
ID	34	34	34	34	34	34	60	60	65
HT	148	98	68	58	68	68	68	48	58

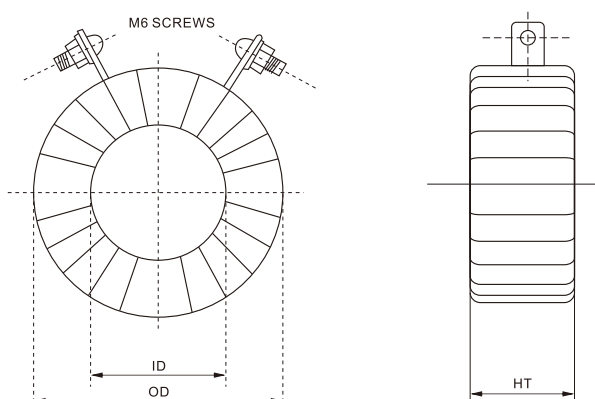
CI:5P10 15VA

Spec.	100/5A	150/5A	200/5A	250/5A	300/5A	400/5A	500/5A	600/5A	800/5A	1000/5A	1200/5A	1600/5A	2000/5A	2500/5A	3000/5A	3500/5A	4000/5A	5000/5A
OD	100	100	100	96	96	96	102	110	120	120	123	123	123	178	178	182	182	184
ID	34	34	34	45	45	45	62	68	85	85	82	82	125	125	125	120	120	118
HT	180	130	110	110	110	90	110	88	88	68	68	60	40	40	40	35	35	38

CI:10P10 15VA

Spec.	100/5A	150/5A	200/5A	300/5A	400/5A	500/5A	600/5A	800/5A	1000/5A	1200/5A	1600/5A	2000/5A	2500/5A	3000/5A
OD	100	100	100	96	96	102	110	120	120	123	123	178	178	178
ID	34	34	34	45	60	60	70	85	85	82	82	125	125	125
HT	168	108	88	108	108	88	68	68	58	60	50	38	38	38

Outline drawing



CONTROL TRANSFORMER

JBK series

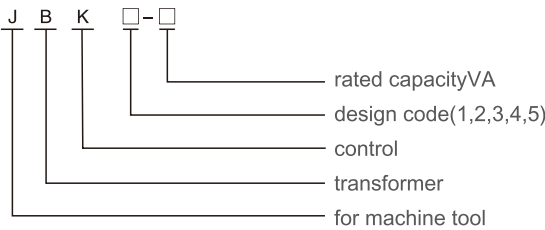
Control transformer



Application

JBK series machine tool control transformer is applied to circuit of AC50Hz/60Hz, output voltage up to 660V,as control power-supply of kinds of machine tool and mechannical equipments,Power supply for local illumination indicator lamp.
This production conforms to standards of IEC/EN61558.

Model No.



Structure

This production has the advantage of stable operation,low consumption,small volume,safe connection,large application.

Main technical parameter

JBK series control transformer voltage type see Table1

Table1

specification	first voltage V	secondary voltage V		
		control	illumination	indicator
40VA	220V或380V	110(127)(220)	24(36) (48) (12)	6
63VA	220V或380V	110(127)(220)	24(36) (48) (12)	6
100VA	220V或380V	110(127)(220)	24(36) (48) (12)	6
160VA	220V或380V	110(127)(220)	24(36) (48) (12)	6
250VA	220V或380V	110(127)(220)	24(36) (48) (12)	6
400VA	220V或380V	110(127)(220)	24(36) (48) (12)	6
630VA	220V或380V	110(127)(220)	24(36) (48) (12)	6
1000VA	220V或380V	110(127)(220)	24(36) (48) (12)	6
1600VA	220V或380V	110(127)(220)	24(36) (48) (12)	6
2000VA	220V或380V	110(127)(220)	24(36) (48) (12)	6
2500VA	220V或380V	110(127)(220)	24(36) (48) (12)	6

Appearance and install dimension

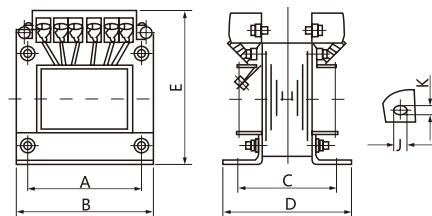


Fig1 JBK1 series production shape and install dimension(see Table2)

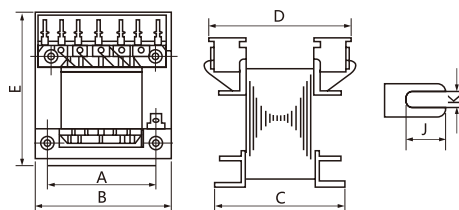


Fig2 JBK2 series production shape and install dimension(see Table3)

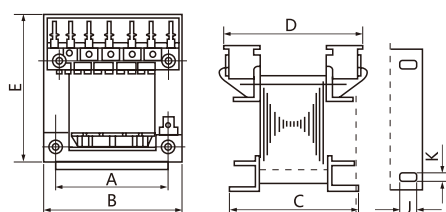


Fig3 JBK3 series production shape and install dimension(see Table4)

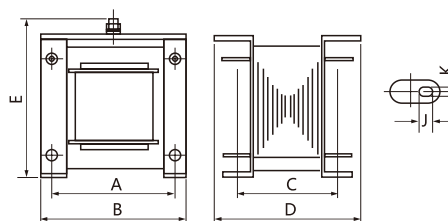


Fig4 JBK4 series production shape and install dimension(see Table5)

JBK1 series production appearance dimension

Table2

model No.	install dimension mm		install bore mm		shape mm			notice
	A	C	K	J	B	D	E	
JBK1-40VA	83	55	6	10	96	80	108	shape and install dimension for reference only,if any special requirements,please note it in the order.
JBK1-63VA	83	55	6	10	96	80	108	
JBK1-100VA	83	70	6	10	96	94	108	
JBK1-160VA	90	90	7	13	126	130	110	
JBK1-250VA	90	114	7	13	126	130	136	
JBK1-400VA	110	100	8	14	150	146	126	
JBK1-630VA	110	110	8	14	150	176	136	
JBK1-1000VA	130	120	8	14	180	176	146	
JBK1-1600VA	150	140	9	16	196	193	166	
JBK1-2000VA	150	154	9	16	196	233	180	

JBK2 series production appearance dimension

Table3

model No.	install dimension mm		install bore mm		shape mm		
	A	C	K	J	B	D	E
JBK2-40VA	78	65	6	12	90	84	97
JBK2-63VA	78	65	6	12	90	84	97
JBK2-100VA	78	78	6	12	90	94	97
JBK2-160VA	90	78	6	12	108	94	112
JBK2-250VA	90	88	6	12	108	105	112
JBK2-400VA	105	84	8	16	136	108	127
JBK2-630VA	120	95	8	16	144	120	142

CONTROL TRANSFORMER

JBK3 series production appearance dimension

Table4

model No.	install dimension mm		install bore mm		shape mm		
	A	C	K	J	B	D	E
JBK3-40VA	55	50	6	9	80	78	90
JBK3-63VA	55	50	6	9	80	78	90
JBK3-100VA	65	65	6	9	87	95	92
JBK3-160VA	85	76	6	9	96	99	106
JBK3-250VA	85	90	6	9	100	106	102
JBK3-400VA	102	85	8	14	125	108	126
JBK3-630VA	130	82	8	14	155	107	145
JBK3-1000VA	155	125	Φ8	Φ8	205	155	155
JBK3-1600VA	185	157	Φ8	Φ8	220	180	150
JBK3-2500VA	174	200	7	12	210	265	175

JBK4 series production appearance dimension

Table5

model No.	install dimension mm		install bore mm		shape mm		
	A	C	K	J	B	D	E
JBK4-40VA	55	50	6	9	78	80	92
JBK4-63VA	55	50	6	9	78	80	92
JBK4-100VA	65	65	6	9	84	96	95
JBK4-160VA	85	71	6	9	96	100	110
JBK4-250VA	85	82	6	9	96	112	110
JBK4-400VA	102	86	8	14	12	106	128
JBK4-630VA	110	110	8	14	150	104	150

JBK5 series production appearance dimension

Table6

model No.	install dimension mm		shape mm			weight kg
	A	C	B	D	E	
40VA	56	46	78	72	90	1.09
63VA	56	46	78	72	90	1.18
100VA	64	62	84	92	96	1.98
160VA	84	73	96	92	106	2.55
200VA	84	85	96	108	106	3.15
250VA	84	85	96	108	106	3.44
300VA	93	84	120	95	122	4.76
400VA	93	84	120	100	122	5
500VA	93	99	120	115	122	6.8
630VA	125	92	150	115	155	8.16
800VA	125	105	150	130	155	9.08
1000VA	140	158	160	195	145	11.25
1600VA	155	180	184	225	145	13.6
2500VA	165	210	200	250	171	22.35

Product overview



RDBK series control transformer (hereafter called as “transformer”) is manufactured using internationally advanced design and production techniques. It delivers excellent performance, reliable operation, and broad applicability, making it well-suited for using in machine tool control systems, local lighting, and indicator light power supplier. This series of transformers is designed for AC 50/60Hz circuit with voltage up to 1000V and can operate continuously under rated load for extended periods. The product conforms to the IEC/EN61558 standard.

Selection guide

RDBK	25
Model	Capacity
Control transformer	25 :
	25VA
	...
	5000 :
	5000VA

Normal operating and installation conditions

- Altitude not exceeding 2000m
- Ambient air temperature: Maximum temperature does not exceed +40°C, minimum temperature not below -5°C.
- Relative humidity: The average maximum humidity in a month is 90%, and the average maximum temperature should not exceed 35°C within 24 hours
- The installation place should not have severe vibration and impact
- In a medium without explosion hazard, and without gases or conductive dust that can corrode metals and damage insulation
- The place protected from rain and snow
- The power supply voltage waveform is close to a sine wave

Transformer structure

The coils of this series transformer can bear the full rated capacity when there is only one winding on the primary and secondary sides. If there are multiple windings, the capacity should be allocated according to the capacity that each winding can bear. However, the sum of the capacities of the various windings shall not exceed the total capacity, see Figures 1, 2, 3 and 4.

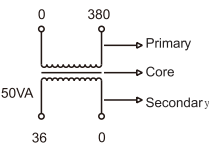


Figure 1 Single winding

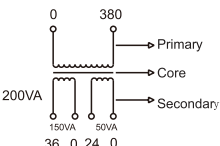


Figure 2 Separate windings

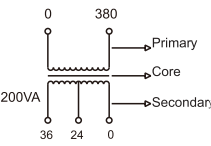


Figure 3 Hybrid winding

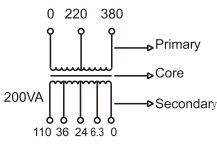


Figure 4 Continuous intermediate tapped winding

CONTROL TRANSFORMER

Outline dimensions and installation dimension

Capacity(VA)	Overall dimensions L×W×H(mm)	Installation dimensions L×W(mm)
25	78 × 72 × 89	56 × 54
50	78 × 72 × 89	56 × 54
100	95 × 95 × 100	85 × 70
150	102 × 100 × 98	77 × 80
200	102 × 107 × 110	77 × 83
250	114 × 115 × 112	90 × 88
300	114 × 120 × 112	90 × 92
400	120 × 125 × 120	90 × 95
500	132 × 129 × 150	100 × 92
700	150 × 150 × 175	120 × 115
1000	150 × 160 × 175	120 × 120
1500	181 × 215 × 185	145 × 135
2000	200 × 220 × 200	150 × 160
2500	225 × 240 × 225	169 × 175
3000	225 × 240 × 225	169 × 175
5000	283 × 265 × 270	215 × 180

Note : The outline dimensions and installation dimension of specially customized transformers should be subject to the actual product.

BSMJ(Y)/BZMJ

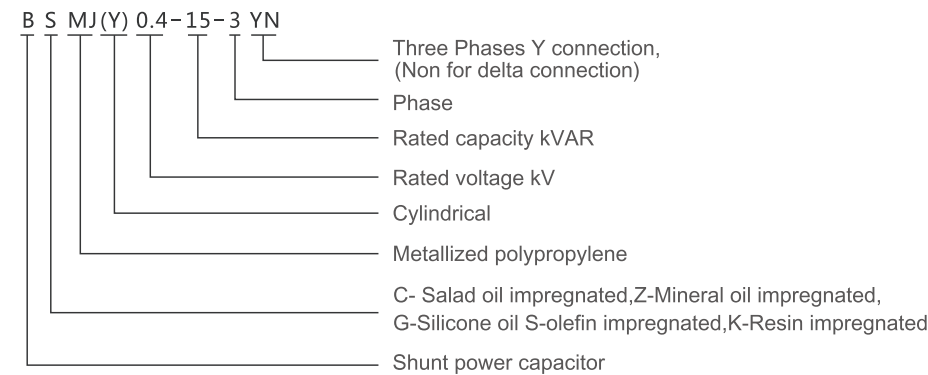
Series Self-healing Shunt Capacitor



Application

BSMJ(Y),BCMJ(Y) series self-healing low-voltage shunt capacitor, is applicable for AC power system of voltage up to 1000V, is used for improving lowvoltage network power factor and voltage quality and decreasing reactive power consumption. This production conforms to the Standard of IEC60831-1996.

Model No.



Characteristic

- 3.1 Characteristic
 - 3.1.1 Small volume, reliable quality
 - 3.1.2 Applicable for the high temperature and large system voltage wave location
 - 3.1.3 Good sealing.
 - 3.1.4 Firm, convenient installation
 - 3.1.5 convenient connecting terminal.
 - 3.1.6 Anti-corrosion metal shell
- 3.2 Notice
 - 3.2.1 Overvoltage and overheating would shorten life of capacitor.
 - 3.2.2 The following situation should be attention, when install shunt capacitor in the system.
 - a it can not install shunt capacitor directly under serious harmonic. (anti-harmonic reactor need to install)
 - b when transformer does no-load running, capacitor should quit operating.
 - 3.2.3 capacitor connecting to circuit needs to delay 3mins and above. Only after breaking power-supply and discharging by short-circuit, it can be touched and measured.
 - 3.2.4 MCB should be chosen according to 2-3 times of capacitor rated current.

CAPACITOR

Table1

rated voltage	250VAC、400VAC、450VAC、 525VAC、690VAC、750VAC
rated capacity	1-50kVAR
error	0 ~ +10%
low dissipation factor	lower than 0.10%
junction withstand voltage	1.75Vn10s junction shell 3kVA10s
insulation	junction shell 500VDC 1 min bigger than 100M
Max overload voltage	110%of rated voltage
Max overload current	130%of rated current
self-discharge feature	1min after poweroff,residual voltage decreases to 50V and below

Table2

specification	rated voltage(kV)	nominal capacity(Kvar)	Total capacity(uF)	Rated current(A)	Shape and High(mm)
BSMJ0.4-3-3	0.4(50HZ)	3	59	4.3	A type H=115
BSMJ0.4-5-3		5	99	7.2	
BSMJ0.4-7.5-3		7.5	149	10.8	A type H=135
BSMJ0.4-8-3		8	158	11.5	
BSMJ0.4-10-3		10	198	14.4	A type H=175
BSMJ0.4-12-3		12	238	17.3	
BSMJ0.4-14-3		14	278	20.2	A type H=215
BSMJ0.4-15-3		15	298	21.7	
BSMJ0.4-16-3		16	318	23.1	A type H=245
BSMJ0.4-18-3		18	358	26.0	
BSMJ0.4-20-3		20	398	28.9	B type H=215
BSMJ0.4-25-3		25	498	36	
BSMJ0.4-30-3		30	597	43.3	B type H=245
BSMJ0.4-40-3		40	796	57.7	B type H=300
BSMJ0.4-50-3		50	995	72.2	C type H=230

Table3

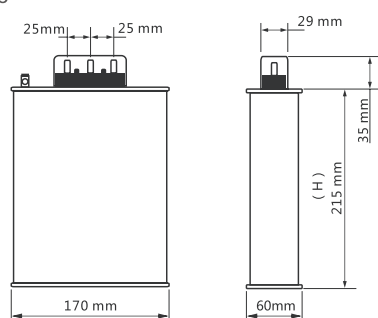
specification	rated voltage(kV)	nominal capacity(Kvar)	Total capacity(uF)	Rated current(A)	Shape and High(mm)
BSMJ0.45-3-3	0.45(50HZ)	3	47	3.8	A type H=115
BSMJ0.45-5-3		5	78	6.4	
BSMJ0.45-7.5-3		7.5	118	9.6	A type H=135
BSMJ0.45-8-3		8	126	10.3	
BSMJ0.45-10-3		10	157	12.8	A type H=175
BSMJ0.45-12-3		12	188	15.4	
BSMJ0.45-14-3		14	220	18	A type H=215
BSMJ0.45-15-3		15	236	19.2	
BSMJ0.45-16-3		16	251	20.5	

Table3

specification	rated voltage(kV)	nominal capacity(Kvar)	Total capacity(uF)	Rated current(A)	Shape and High(mm)
BSMJ0.45-18-3		18	283	23	A type H=245
BSMJ0.45-20-3		20	314	25.7	
BSMJ0.45-25-3		25	393	32	B type H=215
BSMJ0.45-30-3		30	471	38.5	B type H=245
BSMJ0.45-40-3		40	629	51.3	B type H=300
BSMJ0.45-50-3		50	786	64.2	C type H=230

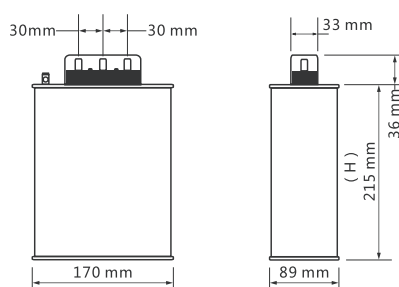
Overall and mounting dimension

A Type



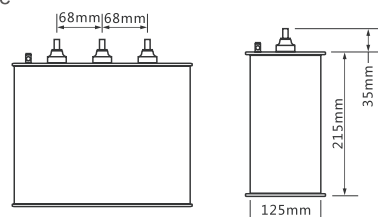
1-6(kvar) H=115mm
 7.5-8(kvar) H=135mm
 10-12(kvar) H=175mm
 14-16(kvar) H=215mm
 18-20(kvar) H=245mm

B Type



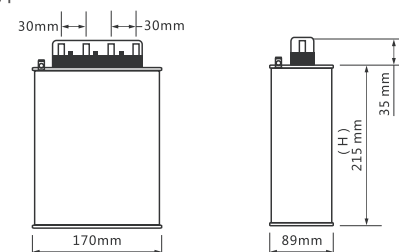
22-25(kvar) H=215mm
 30(kvar) H=245mm
 40(kvar) H=300mm

C Type



BSMJ0.4-50-3

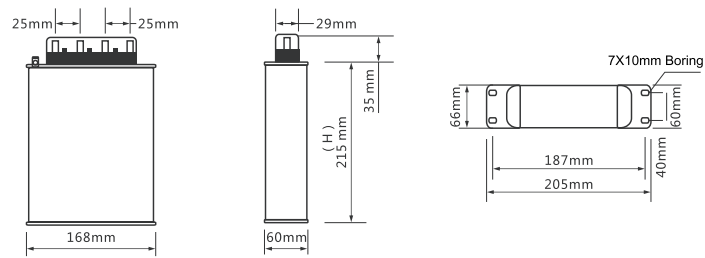
D Type



BSMJ0.23-X-3YN
 X=12(kvar) H=160mm
 X=15, 18(kvar) H=215mm
 X=21(kvar) H=245mm
 X=24(kvar) H=300mm

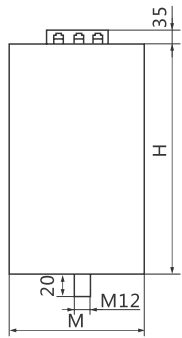
CAPACITOR

E Type



BSMJ0.23-X-3YN
X=3,6(kvar) H=135mm
X=9(kvar) H=215mm

BSMJ(Y), BZMJ(Y)



Model No. BSMJ(Y),BZMJ(J)	shell radius M(mm)	shell high H(mm)
0.4-10-3	76	240
0.4-12.5-3	76	240
0.4-14-3	86	240
0.4-15-3	86	240
0.4-16-3	86	240
0.4-18-3	96	240
0.4-20-3	96	240
0.4-25-3	116	280
0.4-30-3	116	280
0.45-10-3	76	240
0.45-12.5-3	76	240
0.45-14-3	86	240
0.45-15-3	86	240
0.45-16-3	86	240
0.45-18-3	96	240
	96	240
	106	240
	116	280

Motor Run

Capacitor



Application

Motor run capacitor has features of small size, light weight and small tangent in waste angle. Applicable to start and operate with 50/60Hz A.C single motor, the items are specially suitable for micro pump, baric pump, micro motor and all kinds of domestic electric appliance.

Specifications

Rated voltage	Nominal Capacity(μf)
AC250V	4,5,6,8,10,12,14,16,18,20,22,25,30,31.5,35,40,45,50,60,70,80,85,90,95,100
AC450V	
Ambient Temperature	-40~+70°C
Rated Voltage	250V AC 400V AC
Test Voltage	T-T:1.5Un T: 10S T-C:2000V AC T:10
Capacitance Tolerance	±5% ±10%
Insulation Resistance	T-T≥3000MΩ μF T-C≥100MΩ
Dissipation Factor	tgδ ≤0.004(50Hz)
Standard	SJ2600.1-85

Description

Brand of CBB60 and CBB65 self-healing type AC capacitors, Which made of the advanced metallized film, are widely applied to household electric appliances such as fan, washing machine, refrigerator, air conditioner, oil vapor exhausting machine, etc. Each technic target of the device complies with GB/T3667-93 Standard.

CBB series

Capacitor



Specifications

Voltage		Capacitance(μf)															
Dimension		4.7	5	6	8	8.5	9	10	12	15	16	20	25	30	40	50	60
230~300VAC	D	30			34			42			50			60			
	H	60						80			100			120			
	A	11			12			15			18						
350~500VAC	D	42								50			60				
	H	80								100					150		
	A	12(15)		15(18)						18							

SWITCHING POWER SUPPLY

S,D,T,Q series

Switching Power Supplies



- Utilizes imported components to ensure high reliability
- Features a built-in EMI filter for excellent anti-interference performance.
- Offers low DC output ripple and high efficiency
- Incorporates a soft start circuit to limit AC inrush current.
- Provides excellent heat dissipation, resulting in low operating temperatures and a long service life.
- Wide input voltage range complies with global usage standards.
- Exhibits high insulation performance and dielectric strength.
- Includes comprehensive protection against short-circuits, overloads, and overvoltage
- Undergoes 100% full-load burn in testing at high temperature.

Main technical data

Technical data of S-15W

External dimensions	99x97x35mm
Input voltage range	85-264VAC, 47-63Hz; 120~370VDC
Surge current	Cold start current: 15A/110V, 30A/230V
Adjustable range of DC voltage	10% of the rated output voltage
Overload protection	105% to 150% of the cut-off current, automatic recovery
Overvoltage protection	115% to 135% of the output voltage
Start-up, ascent, holding time	300ms, 50ms, 80ms
Pressure resistance	Between input and output; between input and the enclosure: 1.5 kV AC; between output and the enclosure: 0.5 kV AC for 1 minute.
Working temperature and humidity	-10°C to +60°C, 20% to 90% RH
Safety standards	Complies with CE standards
EMC standards	Complies with CE standards
Connection method	Five 9.5mm terminal blocks
Weight/Package	0.39kg, 45 pieces per carton

Model number	Output	Difference	Scope	Efficiency
S-15-5	5V 0~3.0A	±2%	50mV	65%
S-15-12	12V 0~1.3A	±1%	50mV	68%
S-15-24	24V 0~0.7A	±1%	100mV	72%

Technical data of S-25W

External dimensions	99x97x35mm
Input voltage range	85-264VAC, 47-63Hz; 120~370VDC
Surge current	Cold start current: 15A/110V, 30A/230V
Adjustable range of DC voltage	10% of the rated output voltage
Overload protection	105% to 150% of the cut-off current, automatic recovery
Overvoltage protection	115% to 135% of the output voltage
Start-up, ascent, holding time	300ms, 50ms, 80ms
Pressure resistance	Between input and output; between input and the enclosure: 1.5 kV AC; between output and the enclosure: 0.5 kV AC for 1 minute.
Working temperature and humidity	-10°C to +60°C, 20% to 90% RH
Safety standards	Complies with CE standards
EMC standards	Complies with CE standards
Connection method	Five 9.5mm terminal blocks
Weight/Package	0.39kg, 45 pieces per carton

Model number	Output	Difference	Scope	Efficiency
S-25-5	5V 0~3.0A	±2%	50mV	72%
S-25-12	12V 0~1.3A	±1%	50mV	76%
S-15-24	24V 0~0.7A	±1%	100mV	80%

Technical data of S-35W

External dimensions	129x98x38mm
Input voltage range	85-132VAC,47-63Hz;170~264VDC
Surge current	Cold start current:15A/110V,30A/230V
Adjustable range of DC voltage	10% of the rated output voltage
Overload protection	105% to 150% of the cut-off current, automatic recovery
Overvoltage protection	115% to 135% of the output voltage
Start-up, ascent, holding time	200ms, 100ms, 30ms
Pressure resistance	Between input and output; between input and the enclosure: 1.5 kV AC; between output and the enclosure: 0.5 kV AC for 1 minute.
Working temperature and humidity	-10°C to +60°C, 20% to 90% RH
Safety standards	Complies with CE standards
EMC standards	Complies with CE standards
Connection method	Five 9.5mm terminal blocks
Weight/Package	0.41kg, 45 pieces per carton

Model number	Output	Difference	Scope	Efficiency
S-35-5	5V 0~7.0A	±2%	75mV	70%
S-15-12	12V 0~2.4A	±1%	100mV	78%
S-35-24	24V 0~1.5A	±1%	100mV	78%

Technical data of S-50W

External dimensions	159x98x38mm
Input voltage range	85-132VAC,47-63Hz;170~264VDC
Surge current	Cold start current:15A/110V,30A/230V
Adjustable range of DC voltage	10% of the rated output voltage
Overload protection	105% to 150% of the cut-off current, automatic recovery
Overvoltage protection	115% to 135% of the output voltage
Start-up, ascent, holding time	200ms, 100ms, 30ms
Pressure resistance	Between input and output; between input and the enclosure: 1.5 kV AC; between output and the enclosure: 0.5 kV AC for 1 minute.
Working temperature and humidity	-10°C to +60°C, 20% to 90% RH
Safety standards	Complies with CE standards
EMC standards	Complies with CE standards
Connection method	Five 9.5mm terminal blocks
Weight/Package	0.39kg, 45 pieces per carton

Model number	Output	Difference	Scope	Efficiency
S-25-5	5V 0~10A	±2%	75mV	71%
S-25-12	12V 0~4.2A	±1%	100mV	78%
S-15-24	24V 0~2.1A	±1%	100mV	82%

Technical data of S-60W

External dimensions	159x98x38mm
Input voltage range	85-264VAC,47-63Hz;120~370VDC
Surge current	Cold start current:15A/110V,30A/230V
Adjustable range of DC voltage	10% of the rated output voltage
Overload protection	105% to 150% of the cut-off current, automatic recovery
Overvoltage protection	115% to 135% of the output voltage
Start-up, ascent, holding time	300ms, 60ms, 80ms
Pressure resistance	Between input and output; between input and the enclosure: 1.5 kV AC; between output and the enclosure: 0.5 kV AC for 1 minute.
Working temperature and humidity	-10°C to +60°C, 20% to 90% RH
Safety standards	Complies with CE standards

SWITCHING POWER SUPPLY

EMC standards	Complies with CE standards
Connection method	Five 9.5mm terminal blocks
Weight/Package	0.51kg,30 pieces percarton

Model number	Output	Difference	Scope	Efficiency
S-60-5	5V 0~12A	±2%	120mV	73%
S-60-12	12V 0~5A	±1%	150mV	76%
S-60-24	24V 0~2.5A	±1%	150mV	79%

Technical data of S-75W

External dmsions	159x98x38mm
Input voltage range	85~132VAC/180~264VAC switch selection 47~63Hz;255-370VDC
Surge current	Cold start current:15A/110V,30A/230V
Adjstab le range of DC voltage	10% of the rated output voltage
Overload protection	105% to 150% of the cut-off current, au tom atic recovery
Overvoltage protection	115% to 135% of the output voltage
Start-up,ascent, holding time	200ms, 100ms,30ms
Pressure resistance	Between input and out put;between input and the encbsure:1.5 kV AC; between output and the encbsur:0.5 kV AC for 1 minute.
Working temperature and humidity	-10°C to +60°C,20% to 90% RH
Safety standards	Complies with CE standards
EMC standards	Complies with CE standards
Connection method	Five 9.5mm terminal blocks
Weight/Package	0.52kg,30 pieces per carton

Model number	Output	Difference	Scope	Efficiency
S-75-5	5V 0~15A	±2%	80mV	72%
S-75-12	12V 0~6.3A	±1%	80mV	77%
S-75-24	24V 0~3.2A	±1%	100mV	80%

Technical data of S-100W

External dmsions	199x98x38mm
Input voltage range	85~132VAC/180~264VAC switch selection 47 63Hz;255-370VDC
Surge current	Cold start current:15A/110V,30A/230V
Adjstab le range of DC voltage	10% of the rated output voltage
Overload protection	105% to 150% of the cut-off current, au tom atic recovery
Overvoltage protection	115% to 135% of the output voltage
Start-up,ascent, holding time	200ms, 100ms,30ms
Pressure resistance	Between input and out put;between input and the encbsure:1.5 kV AC; between output and the encbsur:0.5 kV AC for 1 minute.
Working temperature and humidity	-10°C to +60°C,20% to 90% RH
Safety standards	Complies with CE standards
EMC standards	Complies with CE standards
Connection method	Seven 9.5mm terminal blocks
Weight/Package	0.62kg,30 pieces percarton

Model number	Output	Difference	Scope	Efficiency
S-100-5	5V 0~20A	±2%	75mV	71%
S-100-12	12V 0~8.5A	±1%	100mV	81%
S-100-24	24V 0~4.5A	±1%	100mV	84%
S-100-48	48V 0~2A	±1%	100mV	84%

Technical data of S-145W

External dmsions	199x98x38mm
Input voltage range	85~132VAC/180~264VAC;47-63Hz; Switch selection
Surge current	Cold start current:15A/110V,30A/230V

Adjustable range of DC voltage	10% of the rated output voltage
Overload protection	105% to 150% of the cut-off current, automatic recovery
Overvoltage protection	115% to 135% of the output voltage
Start-up, ascent, holding time	200ms, 100ms, 30ms
Pressure resistance	Between input and output; between input and the enclosure: 1.5 kV AC; between output and the enclosure: 0.5 kV AC for 1 minute.
Working temperature and humidity	-10°C to +60°C, 20% to 90% RH
Safety standards	Complies with CE standards
EMC standards	Complies with CE standards
Connection method	Seven 9.5mm terminal blocks
Weight/Package	0.7kg, 30 pieces per carton

Model number	Output	Difference	Scope	Efficiency
S-145-5	5V 0~20A	±2%	120mV	78%
S-145-12	12V 0~8.5A	±1%	150mV	81%
S-145-24	24V 0~6A	±1%	150mV	84%

Technical data of S-75W

External dimensions	199x110x50mm
Input voltage range	88~132VAC/176~264VAC; 47~63Hz; 255-370VDC
Surge current	Cold start current: 15A/110V, 30A/230V
Adjustable range of DC voltage	10% of the rated output voltage
Overload protection	105% to 150% of the cut-off current, automatic recovery
Overvoltage protection	115% to 135% of the output voltage
Start-up, ascent, holding time	100ms, 50ms, 20ms
Pressure resistance	Between input and output; between input and the enclosure: 1.5 kV AC; between output and the enclosure: 0.5 kV AC for 1 minute.
Working temperature and humidity	-10°C to +60°C, 20% to 90% RH
Safety standards	Complies with CE standards
EMC standards	Complies with CE standards
Connection method	Seven 9.5mm terminal blocks
Weight/Package	0.8kg, 20 pieces per carton

Model number	Output	Difference	Scope	Efficiency
S-150-5	5V 0~15A	±2%	150mV	78%
S-150-12	12V 0~6.3A	±1%	180mV	82%
S-150-24	24V 0~3.2A	±1%	240mV	85%

Technical data of S-200W

External dimensions	199x110x50mm
Input voltage range	90~132VAC/180~264VAC; 47~63Hz; Switch selection
Surge current	Cold start current: 15A/110V, 30A/230V
Adjustable range of DC voltage	10% of the rated output voltage
Overload protection	105% to 150% of the cut-off current, automatic recovery
Overvoltage protection	115% to 135% of the output voltage
Start-up, ascent, holding time	200ms, 50ms, 20ms
Pressure resistance	Between input and output; between input and the enclosure: 1.5 kV AC; between output and the enclosure: 0.5 kV AC for 1 minute.
Working temperature and humidity	-10°C to +60°C, 20% to 90% RH
Safety standards	Complies with CE standards
EMC standards	Complies with CE standards
Connection method	Seven 9.5mm terminal blocks
Weight/Package	0.8kg, 20 pieces per carton

SWITCHING POWER SUPPLY

Model number	Output	Difference	Scope	Efficiency
S-200-5	5V 0~40A	±2%	100mV	71%
S-20012	12V 0~16.7	±1%	100mV	79%
S-200-24	24V 0~8.4A	±1%	150mV	83%

Technical data of S-201W

External dimensions	215x115x50mm
Input voltage range	90~132VAC/180~264VAC;47~63Hz; Switch selection
Surge current	Cold start current:15A/110V,30A/230V
Adjustable range of DC voltage	10% of the rated output voltage
Overload protection	105% to 150% of the cut-off current, automatic recovery
Overvoltage protection	115% to 135% of the output voltage
Start-up, ascent, holding time	200ms, 100ms, 30ms
Pressure resistance	Between input and output; between input and the enclosure: 1.5 kV AC; between output and the enclosure: 0.5 kV AC for 1 minute.
Working temperature and humidity	-10°C to +60°C, 20% to 90% RH
Safety standards	Complies with CE standards
EMC standards	Complies with CE standards
Connection method	9 terminals of 9.5mm connection point
Weight/Package	0.92kg, 20 pieces per carton

Model number	Output	Difference	Scope	Efficiency
S-201-5	5V 0~40A	±2%	150mV	74%
S-201-12	12V 0~16.5A	±1%	150mV	79%
S-201-24	24V 0~8.4A	±1%	100mV	81%

Technical data of S-240W

External dimensions	215x115x50mm
Input voltage range	90~132VAC/180~264VAC;47~63Hz; Switch selection
Surge current	Cold start current:15A/110V,30A/230V
Adjustable range of DC voltage	10% of the rated output voltage
Overload protection	105% to 150% of the cut-off current, automatic recovery
Overvoltage protection	115% to 135% of the output voltage
Start-up, ascent, holding time	200ms, 100ms, 30ms
Pressure resistance	Between input and output; between input and the enclosure: 1.5 kV AC; between output and the enclosure: 0.5 kV AC for 1 minute.
Working temperature and humidity	-10°C to +60°C, 20% to 90% RH
Safety standards	Complies with CE standards
EMC standards	Complies with CE standards
Connection method	9 terminals of 9.5mm connection point
Weight/Package	1.1kg, 20 pieces per carton

Model number	Output	Difference	Scope	Efficiency
S-201-5	5V 0~48A	±2%	150mV	74%
S-201-12	12V 0~18A	±1%	150mV	79%
S-201-24	24V 0~10A	±1%	100mV	81%

Technical data of S-240W

External dimensions	215x115x50mm
Input voltage range	88~132VAC/176~264VAC;47~63Hz; Switch selection
Surge current	Cold start current:15A/110V,30A/230V
Adjustable range of DC voltage	10% of the rated output voltage
Overload protection	105% to 150% of the cut-off current, automatic recovery
Overvoltage protection	115% to 135% of the output voltage
Start-up, ascent, holding time	200ms, 100ms, 30ms

Pressure resistance	Between input and out put;between input and the encbsur:1.5 kV AC; between output and the encbsur:0.5 kV AC for 1 minute.
Working temperature and humidity	-10°C to +60°C,20% to 90% RH
Safety standards	Complies with CE standards
EMC standards	Complies with CE standards
Connection method	9 terminals of 9.5mm connection point
Weight/Package	1.1kg,20 pieces per carton

Model number	Output	Difference	Scope	Efficiency
S-250-5	5V 0~50A	±2%	150mV	74%
S-250-12	12V 0~20.8A	±1%	150mV	82%
S-250-24	24V 0~10.4A	±1%	180mV	84%

Technical data of S-320W

External dmsions	215x115x50mm
Input voltage range	90~132VAC/176~264VAC ; 47~63Hz;255-370VDC
Surge current	Cold start current:15A/110V,30A/230V
Adjstab le range of DC voltage	10% of the rated output voltage
Overload protection	105% to 150% of the cut-off current, au tom atic recovery
Overvoltage protection	115% to 135% of the output voltage
Start-up,ascent, holding time	200ms,100ms,30ms
Pressure resistance	Between input and out put;between input and the encbsur:1.5 kV AC; between output and the encbsur:0.5 kV AC for 1 minute.
Working temperature and humidity	-10°C to +60°C,20% to 90% RH
Safety standards	Complies with CE standards
EMC standards	Complies with CE standards
Connection method	9 terminals of 9.5mm connection point
Weight/Package	1.1kg,20 pieces per carton

Model number	Output	Difference	Scope	Efficiency
S-320-5	5V 0~15A	±2%	150mV	79%
S-320-12	12V 0~6.3A	±1%	150mV	86%
S-320-24	24V 0~3.2A	±1%	150mV	87%

Technical data of S-200W

External dmsions	215x110x50mm
Input voltage range	90~132VAC/176~264VAC ; 47~63Hz;Switch selection
Surge current	Cold start current:15A/110V,30A/230V
Adjstab le range of DC voltage	10% of the rated output voltage
Overload protection	105% to 150% of the cut-off current, au tom atic recovery
Overvoltage protection	115% to 135% of the output voltage
Start-up,ascent, holding time	200ms,50ms,20ms
Pressure resistance	Between input and out put;between input and the encbsur:1.5 kV AC; between output and the encbsur:0.5 kV AC for 1 minute.
Working temperature and humidity	-10°C to +60°C,20% to 90% RH
Safety standards	Complies with CE standards
EMC standards	Complies with CE standards
Connection method	9 terminals of 9.5mm connection point
Weight/Package	1.1kg,20 pieces per carton

Model number	Output	Difference	Scope	Efficiency
S-350-5	5V 0~70A	±2%	150mV	73%
S-350-12	12V 0~29A	±1%	150mV	79%
S-350-24	24V 0~14.6A	±1%	150mV	81%

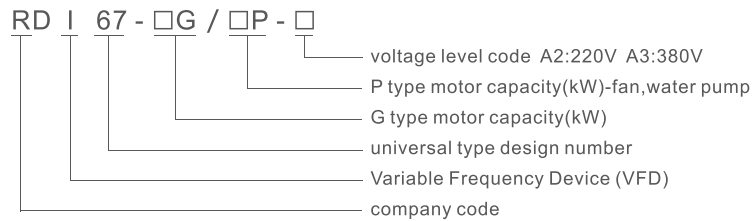
INVERTER & SOFT STARTER

RDI67

Series Variable Frequency Device (VFD)



Model No.



Normal Working condition and installation condition

Humidity: Relative humidity shall not exceed 50% at the Max temperature 40°C, and higher humidity could be accepted at lower temperature. The condensation must be taken care which is caused by temperature change. When temperature is above +40°C, location should be well-ventilated. When environment is unstandard, please using telecontrol or electrical cabinet. Inverter working life is affected by install location. Longtime continuous using, the life electrolytic capacitor in inverter would not exceed 5 years, cooling fan life would not exceed 3 years, exchange and maintenance should be done earlier.

Specification

Voltage type: 380V and 220V Applicative motor capacity:0.75kw to 355kw

Voltage	Model No.	Rated capacity (KVA)	Rated output current (A)	Adaptive motor (KW)
380V three phase	RDI67-0.75G-A3	1.5	2.3	0.75
	RDI67-1.5G-A3	3.7	3.7	1.5
	RDI67-2.2G-A3	4.7	5.0	2.2
	RDI67-4G-A3	6.1	8.5	4.0
	RDI67-5.5G/7.5P-A3	11	13	5.0
	RDI67-7.5G/11P-A3	14	17	7.5
	RDI67-11G/15P-A3	21	25	11
	RDI67-15G/18.5P-A3	26	33	15
	RDI67-18.5G/22P-A3	31	39	18.5
	RDI67-22G/30P-A3	37	45	22
	RDI67-30G/37P-A3	50	60	30
	RDI67-37G/45P-A3	61	75	37
	RDI67-45G/55P-A3	73	90	45
	RDI67-55G/75P-A3	98	110	55
	RDI67-75G/90P-A3	130	150	75
	RDI67-93G/110P-A3	170	176	90
	RDI67-110G/132P-A3	138	210	110
	RDI67-132G/160P-A3	167	250	132
	RDI67-160G/185P-A3	230	310	160
	RDI67-200G/220P-A3	250	380	200
	RDI67-220G-A3	280	415	220
	RDI67-250G-A3	340	475	245
	RDI67-280G-A3	450	510	280
	RDI67-315G-A3	460	605	315
	RDI67-355G-A3	500	640	350
220V single phase and three phase	RDI67-0.75G-A2	1.4	4.0	0.75
	RDI67-1.5G-A2	2.6	7.0	1.2
	RDI67-2.2G-A2	3.8	10.0	2.2

RDI67

Series Variable Frequency Device (VFD)



Appearance and mounting dimension

Shape size see fig2, fig3, fig4, operation case shape see fig 1.

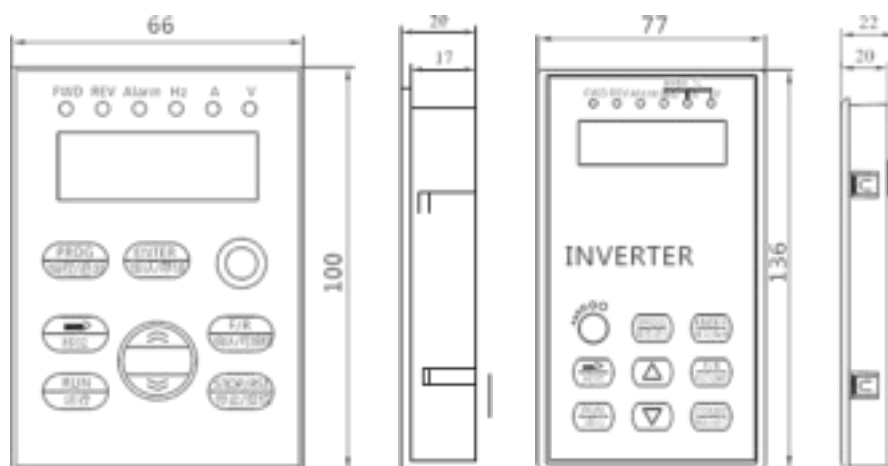


Fig 1 operation case 0.75kW-2.2kW

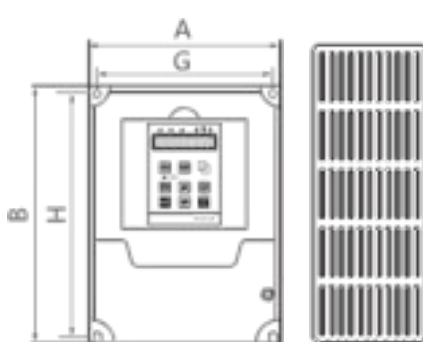


Fig 2 3.7KW-7.5KW

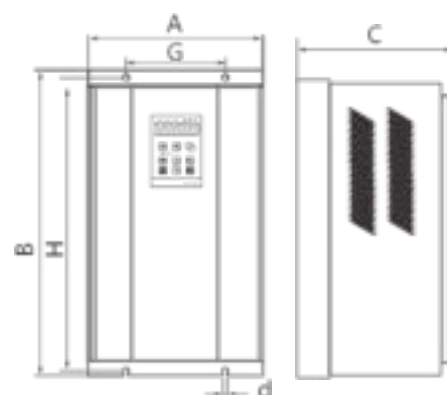


Fig 3 11KW-200KW

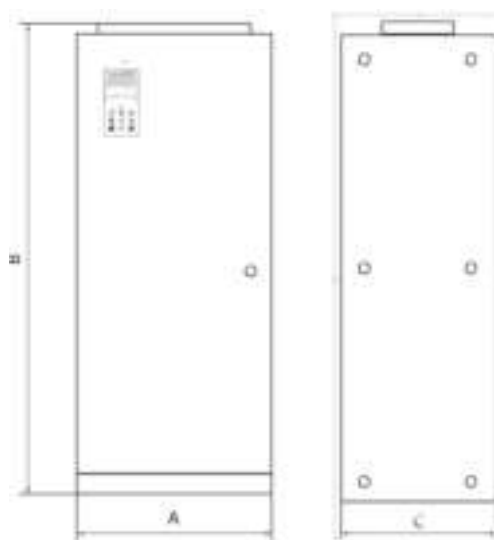


Fig 4 220KW-400KW

INVERTFR & SOFT STARTFR

RDI67

Series Variable Frequency Device (VFD)

Single phase 220V series

Adaptation of standard motors (KW)	Inverter model	Drawing number	Size(mm)					The safety bolt
	220V series		A	B	C	G	H	
0.75-2.2	0.75kW-2.2kW		125	170	165	112	160	M4
3.7-4	3.7kW-4kW		150	220	175	137	205	M5

Three phase 380V series

Adaptation of standard motors (kW)	Inverter model	Drawing number	Size(mm)					
	380V series		A	B	C	G	H	The safety bolt
0.75-2.2	0.75kW-2.2kW	Figure 1	160	90	132.5	81	147	M4
3.7-7.5	3.7kW-7.5kW	Figure 2	240	140	178	130	230	M5
11-15	11kW-15kW	Figure 3	357	200	205	152	330	M8
18.5-30	18.5kW-30kW		450	270	205	195	425	M10
37-55	37kW-55kW		560	320	275	240	535	M10
75-110	75kW-110kW		665	380	275	240	640	M10
132-200	132kW-200kW		775	500	290	360	738	M10
220	220kW-280kW	Figure 4	700	1350	417	Console cabinet installation		
250								
280								
315								
350			315kW-400kW	1000	2000			
400								

RDJR6

Series Soft-starter



Application

AC induction-motor has advantages of low-cost,high reliability and infrequent maintainance.

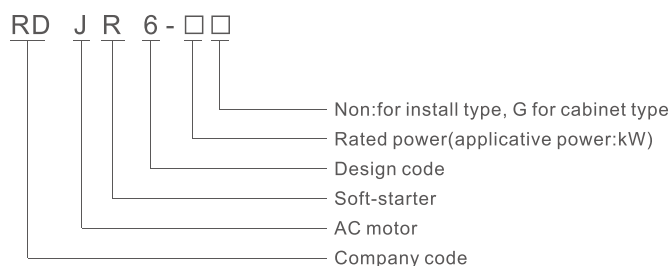
1.starting current is 5-7 times higher than rated current.And it requires that power grid has large margin,and it also would reduce the working life of electrical control device,improving maintainance cost.

2.starting torque is double-time of normal starting torque to cause the load shock and drive components damage.

The RDJR6 soft-starter adopts the controllable thyristor module and phase shift technology to improve the voltage of motor regularly.And it can realize the requirement of motor torque,current and load by control parameter.

RDJR6 series soft-starter adopts microprocessor to control and realize functions of soft-starting and soft-stopping of AC asynchronous motor,has complete protection function,and widely used in Motor drive equipment in the fields of metallurgy,petroleum,mine,chemical industry.

Model No.



Production feature

Adopts the Microprocessor digital auto control,it has great electromagnetic performance.soft starting,soft stoping or free stoping.The starting voltage,current,soft-start and soft-stop time can be adopted according to different loads for reducing the shock of starting current.stable performance,easy operation,direct display,small volume,digital set,has telecontrol and external control functions.

Has protection against phase-loss,overvoltage,overload,overcurrent,overheating.has functions of input voltage display,operating current display,failure self-inspection,fault memory.has 0-20mA simulation value output,can realize motor current monitoring.

INVERTFR & SOFT STARTFR

RDJR6

Series Soft-starter

Appearance and mounting dimension

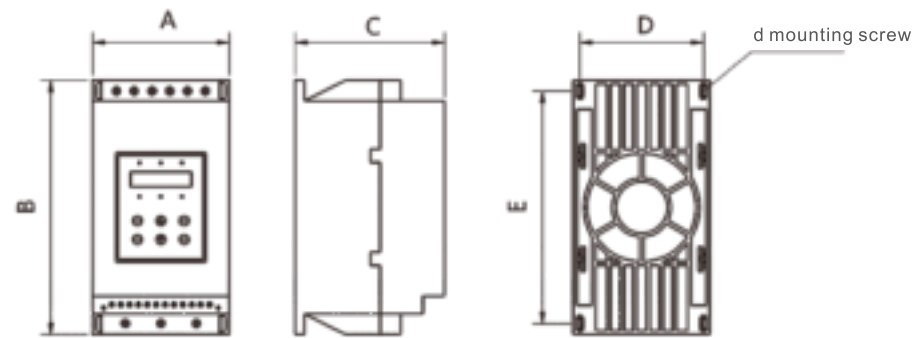


Fig1 RDJR6-5.5 to 55

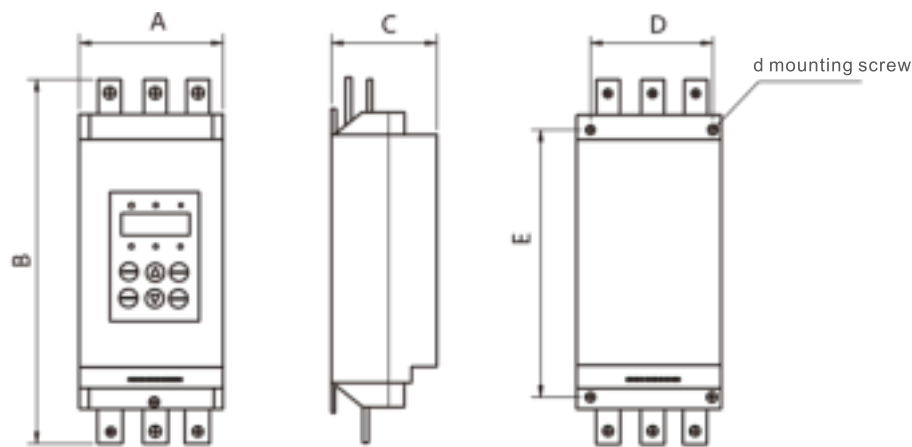


Fig2 RDJR6-75 to 200

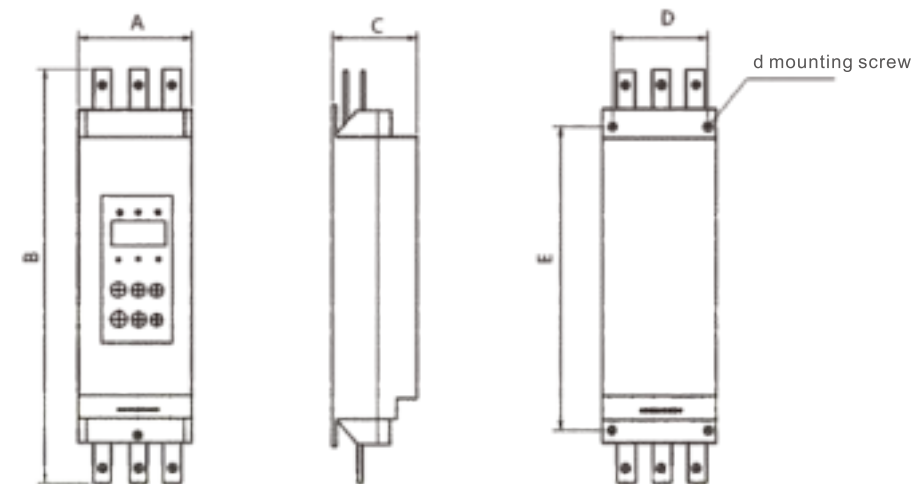


Fig3 RDJR6-250 to 320

Production specification

Model No.	Rated power (kW)	Rated current(A)	Applicative motor power(kW)	Shape size(mm)						Weight (kg)	Note
				A	B	C	D	E	d		
RDJR6-5.5	5.5	11	5.5	145	278	165	132	250	M6	3.7	Fig2.1
RDJR6-7.5	7.5	15	7.5								
RDJR6-11	11	22	11								
RDJR6-15	15	30	15								
RDJR6-18.5	18.5	37	18.5								
RDJR6-22	22	44	22								
RDJR6-30	30	60	30								
RDJR6-37	37	74	37								
RDJR6-45	45	90	45								
RDJR6-55	55	110	55								
RDJR6-75	75	150	75	260	530	205	196	380	M8	18	Fig2.2
RDJR6-90	90	180	90								
RDJR6-115	115	230	115								
RDJR6-132	132	264	132								
RDJR6-160	160	320	160								
RDJR6-185	185	370	185								
RDJR6-200	200	400	200								
RDJR6-250	250	500	250	290	570	260	260	470	M8	25	Fig2.3
RDJR6-280	280	560	280								
RDJR6-320	320	640	320								

VOLTAGE REGULATOR

TDGC,TSGC,TDGC2,TSGC2 series voltage regulator



TDGC



TDGC2



TSGC

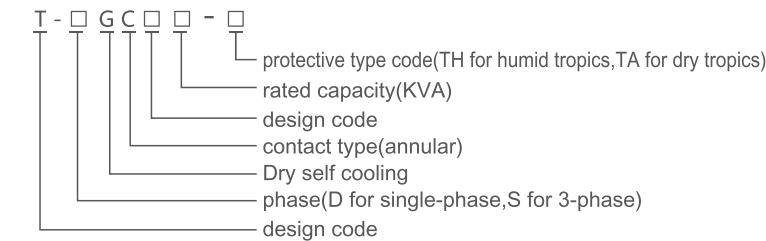


TSGC2

Application

The voltage regulator features undistorted waveform, compact size, lightweight, high efficiency, user-friendly operation, and reliable long-term performance. It is widely applicable in industrial sectors (e.g., chemical, metallurgy, instrumentation,electromechanical manufacturing, light industry),scientific research, public facilities, and household appliances to achieve voltage regulation, temperature control, speed adjustment, lighting dimming, and power control. As an ideal AC voltage regulation power supply product, it complies with the JB/T 8749.3 standard.

Model No.



Normal operation and install condition

- 3.1 Amibent average temperature:-5°C~+40°C
- 3.2 Altitude:not exceed 2000m
- 3.3 Humidity: MAX humidy is 90%,average temperature is 25°C.
- 3.4 Current voltage waveform:current voltage wave is closed to sine wave.
- 3.5 Install location:without gas,steam,chemical dust and other explosive or corrosive medium which influences the insulation of regulator.
- 3.6 Locatio:without obvious vibration.
- 3.7 If any special requirement,please consult with us.

Specification

Table1

Model No.	Rated output capacity (KVA)	Phase	Input voltage (V)	Output voltage (V)	Max output current(A)
TDGC-0.5kVA	0.5	1	220	0~250	2
TDGC-1kVA	1	1	220	0~250	4
TDGC-2kVA	2	1	220	0~250	8
TDGC-3kVA	3	1	220	0~250	12
TDGC-5kVA	5	1	220	0~250	20
TDGC-10kVA	10	1	220	0~250	40
TDGC-15kVA	15	1	220	0~250	60
TDGC-20kVA	20	1	220	0~250	80
TSGC-1.5kVA	1.5	3	380	0~430	0.6
TSGC-3kVA	3	3	380	0~430	4
TSGC-6kVA	6	3	380	0~430	8
TSGC-9kVA	9	3	380	0~430	12
TSGC-15kVA	15	3	380	0~430	20
TSGC-20kVA	20	3	380	0~430	26.7
TSGC-30kVA	30	3	380	0~430	40

Appearance

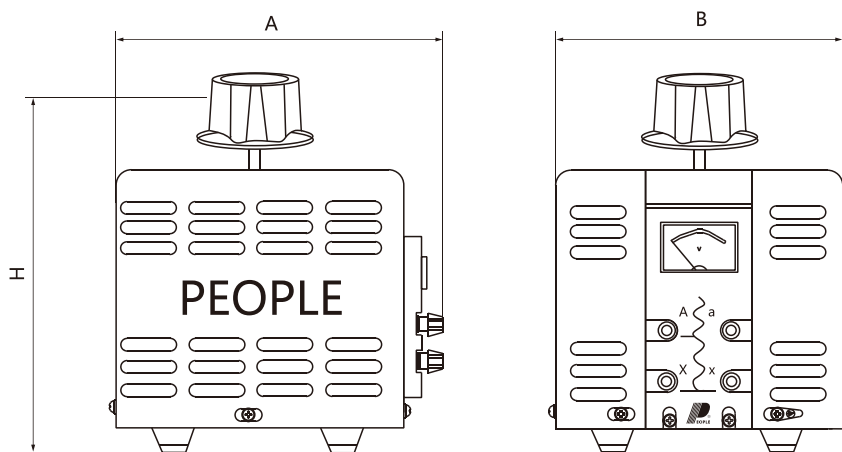


Fig1

Table2

Model No.	shape(AxBxH mm)	Model No.	shape(AxBxH mm)
TDGC-0.5kVA	150×130×175	TDGC2-0.5kVA	150×125×140
TDGC-1kVA	205×190×220	TDGC2-1kVA	200×175×180
TDGC-2kVA	240×235×220	TDGC2-2kVA	210×175×204
TDGC-3kVA	275×265×220	TDGC2-3kVA	230×210×205
TDGC-5kVA	380×355×250	TDGC2-5kVA	290×245×255
TDGC-10kVA	380×355×505	TDGC2-10kVA	330×255×370
TDGC-15kVA	440×350×580	TDGC2-15kVA	320×245×570
TDGC-20kVA	440×360×580	TDGC2-20kVA	-
TSGC-1.5kVA	-	TSGC2-1.5kVA	145×125×350
TSGC-3kVA	205×190×535	TSGC2-3kVA	210×175×470
TSGC-6kVA	240×235×540	TSGC2-6kVA	210×180×490
TSGC-9kVA	280×265×545	TSGC2-9kVA	230×215×500
TSGC-15kVA	390×345×580	TSGC2-15kVA	310×245×565
TSGC-20kVA	390×350×585	TSGC2-20kVA	-
TSGC-30kVA	440×350×1100	TSGC2-30kVA	-

VOLTAGE REGULATOR

SVC(TND, TNS) series AC voltage stabilizer



Product overview

SVC (TND, TNS) series high-precision automatic AC voltage stabilizing power supply consists of contact type autocoupling voltage regulator, servo motor, automatic control circuit, etc. When the grid voltage is unstable or the load changes, the automatic control circuit drives the servo motor according to the change of the output voltage, adjusts the position of the carbon brush on the contact type auto coupling voltage regulator, so that the output voltage can be adjusted to the rated value. The output voltage is stable, reliable, efficient, and can work continuously for a long time. Especially in areas with large fluctuation of grid voltage or seasonal variation of grid voltage, the machine can obtain satisfactory results. Suitable for normal operation of instruments, meters, household appliances and other loads. SVC (TND, TNS) series high-precision automatic AC voltage stabilizing power supply consists of contact type auto coupling voltage regulator, servo motor, automatic control circuit, etc. When the grid voltage is unstable or the load changes, the automatic control circuit drives the servo motor according to the change of the output voltage, adjusts the position of the carbon brush on the contact type auto coupling voltage regulator, so that the output voltage can be adjusted to the rated value. The output voltage is stable, reliable, efficient, and can work continuously for a long time. Especially in areas with large fluctuation of grid voltage or seasonal variation of grid voltage, the machine can obtain satisfactory results. Suitable for normal operation of instruments, meters, household appliances and other loads. Product complies with JB/T8749.7 standard.

Selection Guide

SVC(TND)	0.5	kVA
Product model	Rated capacity	Capacity unit
SVC (TND): single-phase AC voltage regulator SVC (TNS): three-phase AC voltage stabilizer	0.5、1 ... 100 kVA	kVA

Features and scope of application

The stabilized voltage power supply has the characteristics of beautiful appearance, low self-loss, complete protection functions, etc. It can be widely used in production, scientific research, medical and health care, air conditioners, refrigerators and other household appliances. It is an AC stabilized voltage power supply with ideal performance and price.

Normal working conditions and installation conditions

- ☐ Ambient temperature: - 5~+40 °C;
- ☐ Relative humidity: no more than 90% (at 25 °C);
- ☐ Altitude: ≤ 2000m;
- ☐ Working environment: indoor without chemical deposit, dirt, harmful corrosive medium and flammable and explosive gas; It can work continuously.

Main technical data

See Table 1 for main technical indicators

Table 1

Project \ Number of phases	Single-phase	Three-phase
Input voltage range	160~250V	280~430V
output voltage	220V±2.5%	380±3%
Overvoltage protection value	246±4 V	246±7 V
Voltage regulating speed	<1s (when the input voltage changes 7.5V)	
Rated frequency	50Hz	
Electrical strength	Withstand 50Hz sine AC 1500V in cold state for 1min	
Load power factor	0.8	
Efficiency	More than 90%	

Note:

- 1. The technical indicators of each unit refer to those shown on the enclosure. Single phase 0.5~3kVA with 110V ±3% output voltage;
- 2. The input voltage exceeds the above range, and special technical indicators can be specially ordered.

Output capacity curve; See Figure 1

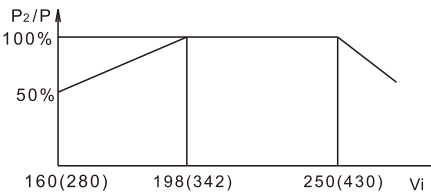


Figure 1

Figure(1)Output capacity curve

Vi: inputVoltage
P2: outputcapacity
P: Ratedoutputcapacity

Electrical schematic diagram

- ☐ The electrical schematic diagram of 0.5kVA~1.5kVA high-precision full-automatic AC voltage stabilizer is shown in Figure2;
- ☐ See Figure3 for electrical schematic diagram above SVC-5kVA;
- ☐ See Figure4 for the electrical schematic diagram of single-phase voltage regulator;
- ☐ The electrical schematic diagram of three-phase voltage regulator is shown in Figure5.

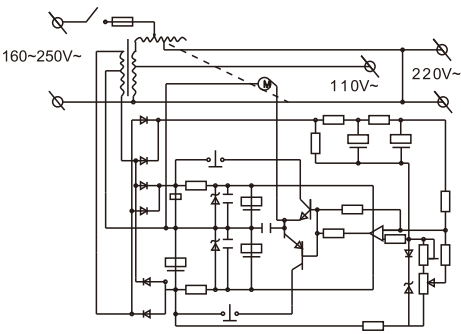


Figure 2

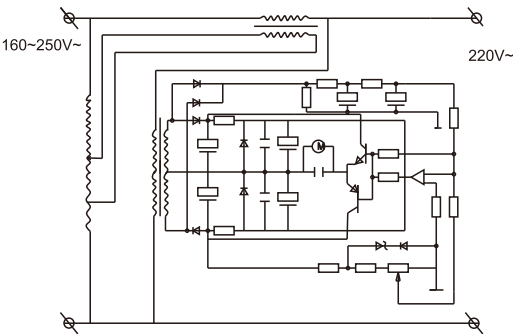


Figure 3

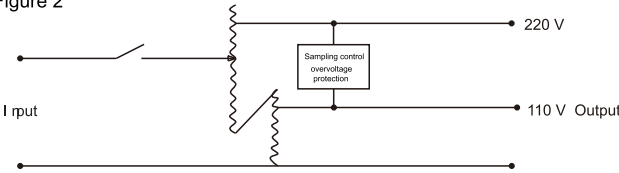


Figure 4

VOLTAGE REGULATOR

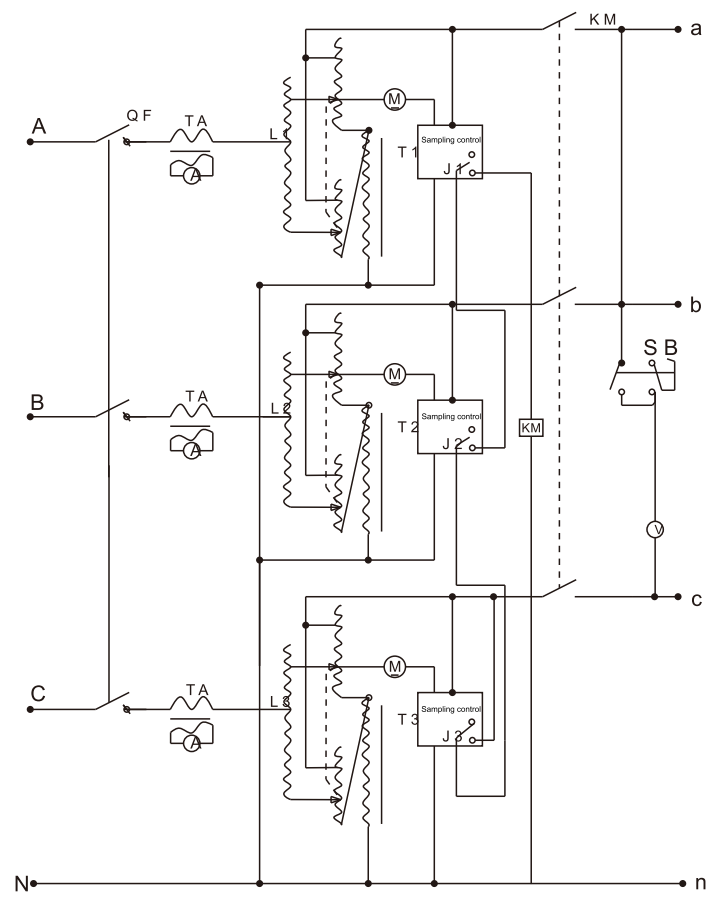
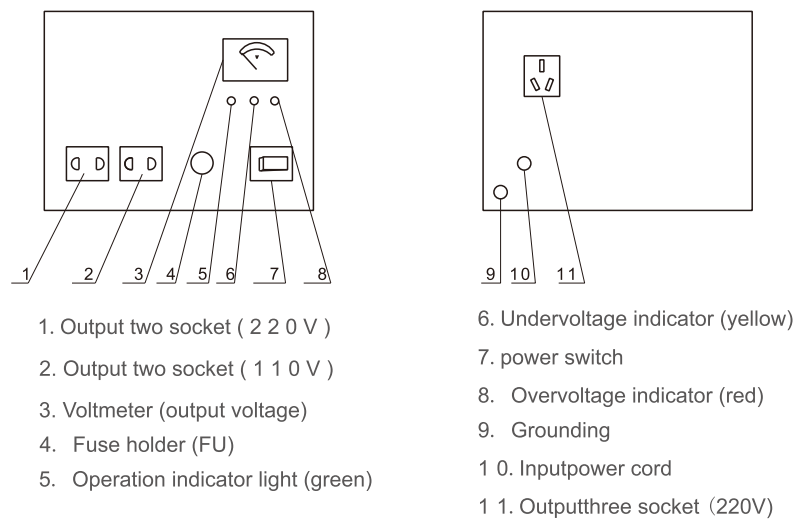


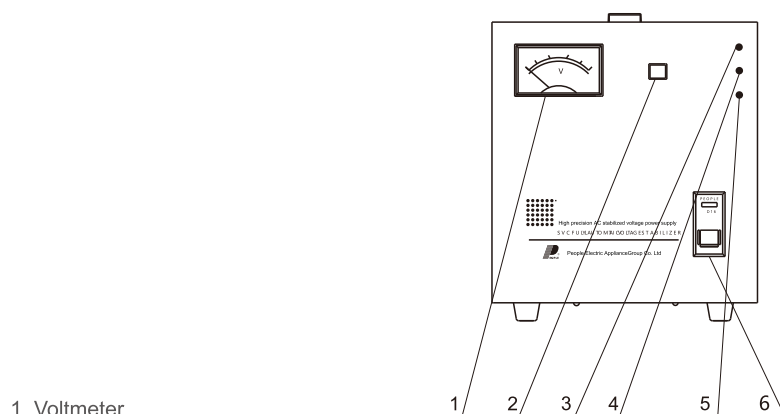
Figure 5

Outline drawing

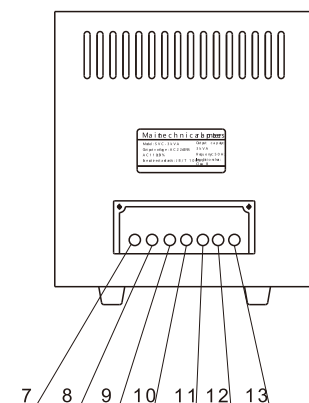
SVC-0.5kVA~1.5kVA high-precision full-automatic AC voltage regulator:



S VC-2kVA~3kVA high-precision full-automatic AC voltage regulator:



1. Voltmeter
2. Voltage measurement button
3. Overvoltage indicator (red)
4. Working indicator (green)
5. Undervoltage indicator (yellow)
6. Power switch
7. Grounding
8. Input phase line
9. Input zero line
10. Output phase line } 110V
11. Output zero line }
12. Output phase line } 220V
13. Output zero line }



Note: For the wiring mode, single-phase SVC-2kVA~5kVA, unscrew the wiring screws fixed at the back of the backplane, use the section area of the bare wire part of the conductor to meet the needs of conducting current during load, press the stripped bare wire part at the top of the conductor fully according to the wiring diagram, and tighten it. it is strictly prohibited to loosen the screws in the front row of the wiring board to fix the internal conductors and use the conductors that do not meet the actual capacity.

VOLTAGE REGULATOR

See Figure 6 and Table 3 for product dimensions

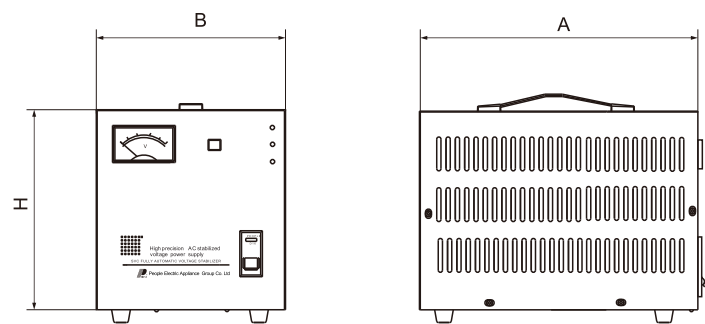


Figure 6

Table 3

Model	Capacity	Overall dimension AxBxH (cm)
S VC(single-phase)	0.5kVA	19x18x15
	1 kVA	22x22x16
	1.5kVA	22x22x16
	2 kVA	27x24x21
	3 kVA	24x30x23
	5 kVA	22x36x28
	7 kVA	25x41x36
	10kVA (Horizontal)	25x41x36
	10kVA (Vertical)	32x35x57
	15 kVA	35x39x66
	20 kVA	35x39x66
	30 kVA	50x50x96
SVC(three-phase)	1.5kVA	49x35x17
	3 kVA	49x35x17
	4.5kVA	49x35x17
	6 kVA	28x33x68
	9 kVA	33x33x76
	15 kVA	37x43x82
	20 kVA	37x43x82
	30 kVA	41x46x95
	50 kVA	56x60x130
	60 kVA	50x60x130
	100kVA	66x50x129

DBW, SBW series AC voltage regulator



Product overview

DBW, SBW series automatic compensation voltage regulator can automatically keep the output voltage stable when the voltage fluctuation is caused by the fluctuation of grid voltage or load. The voltage regulator has the advantages of large capacity, high efficiency, stable voltage regulation, no waveform distortion, wide application load, long-term continuous work, automatic and manual switching at will, easy to use and so on. It can be widely used in industrial, agricultural, post and Telecommunications fields of large mechanical and electrical equipment and other places that need voltage stabilized power supply. The product meets the standard of JB / T 8749.8.

Guide to selection

S (D) BW	F	50	kVA
Product model	Derived code	Rated capacity	Capacity unit
S: three phase D: single phase B: compensation type W: voltage regulator	F: split mode C: LCD type S: bypass output	50 100 ... 1800	kVA

Normal working conditions and installation conditions

The voltage regulator should be used indoors, and the normal conditions of use are as follows:

- ☐ ambient temperature: $-5^{\circ}\text{C} \sim +40^{\circ}\text{C}$
- ☐ altitude: altitude not exceeding 1000m;
- ☐ relative humidity: $\leq 90\%$ (20°C);
- ☐ Installation environment: the installation site shall be free of gases, vapours, chemical deposits, dust, dirt and other explosive and erosive media that seriously affect the insulation of the voltage regulator;
- ☐ where the special conditions for use that do not meet the above provisions shall be determined by the user unit in consultation with our company.

Product characteristics

With boot delay function

When the voltage stabilizing state is running, press the voltage stabilizing button and adjust the voltage regulator to the steady voltage rating value (for a few seconds) before there is an output voltage supply device.

It has the function of output overvoltage protection and alarm.

In the voltage stabilizing state, when the input voltage far exceeds the input voltage range ($304\text{V} \sim 456\text{V}$) or other reasons cause the output voltage of the voltage regulator to overvoltage ($426\text{V} \pm 7\text{V}$), the voltage regulator cuts off the power supply and alarms, and automatically resumes its work when the output voltage is reduced. Has the function of phase sequence protection, when the input three-phase line is wrong or broken, the protective relay can act and cut off the power supply without output.

(the user needs this feature must be proposed in advance).

VOLTAGE REGULATOR

Main technical data

Product specifications and main technical indicators are shown in Table 1

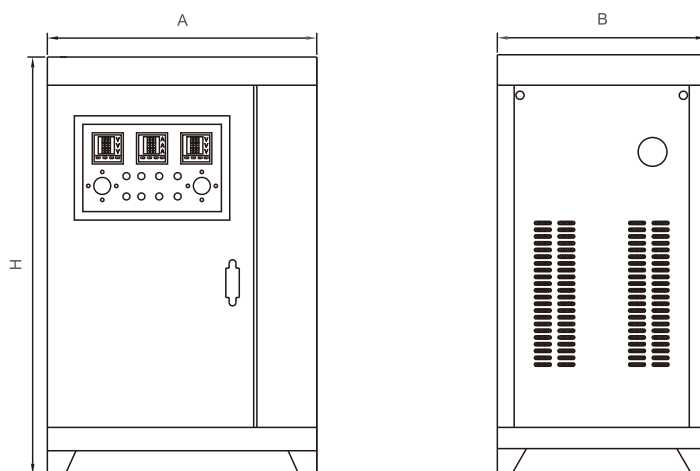
Table 1

Type	Rated capacity kVA	Output current A	Phase number	Input voltage V	Output voltage V	Voltage stabilization accuracy	Overvoltage protection V	Withstand voltage	Insulation resistance M Ω	Efficiency	Working frequency Hz
SBW-20	20	31	three phase	304 ~ 456	380	±3%	426±7	2000V 1min No breakdown	≥5	≥ 97%	50 ~ 60
SBW-30	30	46									
SBW-50	50	76									
SBW-100	100	152									
SBW-180	180	273									
SBW-225	225	342									
SBW-320	320	487									
SBW-400	400	606									
SBW-600	600	910									
SBW-800	800	1212									
SBW-1000	1000	1515									
SBW-1200	1200	1818									
SBW-1800	1800	2700									
DBW-20	20	91	single phase	176 ~ 264	220	±3%	246±4	2000V 1min No breakdown			
DBW-30	30	137									
DBW-50	50	228									
DBW-100	100	455									

OUTLINE DIMENSIONS (See table 2)

Table 2

Model	Outline dimension(A×B×H)mm	Number of enclosures
SBW-20~50kVA	800×570×1270	1
SBW-75~ 100kVA	850× 620×1370	1
SBW-150~200kVA	1000×700×1500	1
SBW-250kVA	1050×800×1600	1
SBW-300kVA	1100×850×1800	1
SBW-400kVA	1200×950×2050	1
SBW-500~600kVA	1100× 1300×2100	1
SBW-800~ 1200kVA	1000×1230×2050	3
SBW-1800kVA	1200×900×1900	4
DBW-20~50kVA	800×570×1270	1
DBW-100kVA	850×620×1370	1



Schematic diagram

Instructions for ordering

- ☐ When ordering, the product model, capacity, rated output voltage, input voltage range, voltage stabilization accuracy, power input (output) distance and other operating conditions should be described.
- ☐ If you have any special requirements, please consult with our technical department.



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