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DD862 DD28 Single Phase Kilowatt Hour Meter

Housing Option: B-Black T-Transparent



DD862-4B



DD862-4T



DD28-2T



DD28-2B

■ Application

DD862 single-phase meter is on induction meter to measure single phase power at rated frequency 50HZ/60HZ, rated voltage 220/240V. The ambient temperature is 15~50°C, relative humidity below 85% at 23°C.

■ Main Features:

Double jewel bearing/Magnetic bearing 6 digits

Cyclometer type register

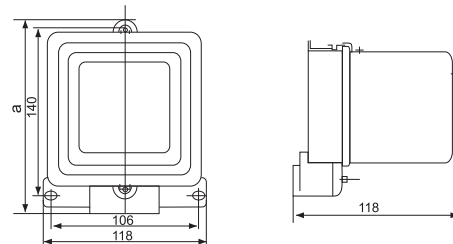
Ui-direction register

ABS, Polycarbonate, Aluminum alloy cover available

Technical Specification: Rated Voltage 220V/240V

Accuracy: 2.0

Rated Current: 1.5(6)A, 3(6)A, 2.5(10)A, 3(12), 5(20)A, 10(40)A
10(50)A, 15(60)A, 20(80)A, 30(100)A,



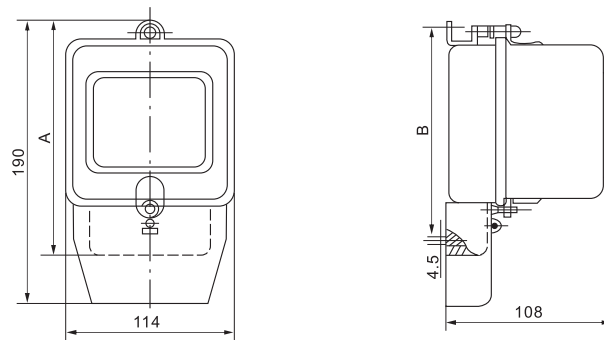
■ Technical Data :

Rated Voltage : 220V, 230V, 240V

Accuracy : 2.0

Basic Current : 3(6)A, 5(10)A, 10(20)A, 20(40)A, 30(60)A,
40(80)A, 5(20)A, 10(40)A, 15(60)A, 20(80)A,
10(30)A, 20(60)A

■ Mounting Dimension :



$I_{max} > 10A$	A=160mm	B=147mm
$I_{max} \leq 10A$	A=154mm	B=142mm

DT862 Three Phase Kilowatt Hour Meter



DT862-4T



DT862-4B



DS862-4B



DX Reactive meter

Application

DT862 series three phase kilowatt hour meter are induction meters which are applicable to measure the rated frequency 50Hz active energy. The series active energy meters completely conform to IEC521.

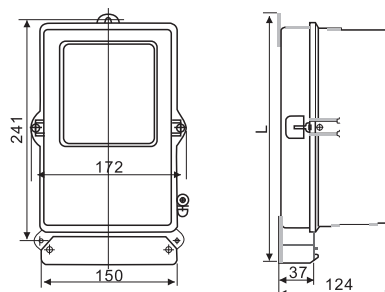
Specifications

Type	Accuracy	Rated voltage(V)	Rated current(A)
DT862 Three-phase 4-wire K.W.h-meter	2.0	3x220/380 3x230/400 3x240/415	3x1.5(6) 3x3(6)
DS862-4 Three-phase 3-wire K.W.h-meter			3x5(20) 3x10(40)
DX series Reactive meter			3x15(60) 3x20(80) 3x30(100)

Name and Specification

Name	Type	Accuracy (class)	Rated voltage(V)	Rated current(A)	Connection Mode
Three-phase four-wire active watt-hour meter	DT862	2.0	3x220 /380	3x1(2), 3x1.5(6) 3x3(6),	Input through current transformer
				3x5(20), 3x10(40), 3x15(60), 3x20(80), 3x30(100)	Directly input
	DT864	1.0	3x57.7 /100	3x1(2), 3x1.5(6) 3x3(6),	Input through current voltage transformer
	DS862	2.0	3x220 /380	3x5(20), 3x10(40), 3x15(60), 3x20(80), 3x30(100)	Directly input
	DS864	1.0	3x57.7 /100	3x1(2), 3x1.5(6) 3x3(6),	Input through current voltage transformer
	DX862	3.0	3x220 /380	3x1(2), 3x3(6), 3x1.5(6)	Input through current transformer
	DX865			3x5(20), 3x10(40), 3x15(60), 3x20(80), 3x30(100)	Directly input
	DX863	2.0	3x57.7 /100	3x1(2), 3x1.5(6) 3x3(6),	Input through current transformer
	DX864			3x1(2), 3x1.5(6) 3x3(6),	Input through current transformer

Dimension



specificationA	A
≤ 10(40)A	273
> 10(40)A	279

DDS989 Electronic Single Phase Kilowatt Hour Meter



DDS989-4



DDS989-6

■ Application

DDS989 electronic single phase watt hour meter adopts advanced IC technology as well as SMT technology, both circuit design and components selections meet various working condition to guarantee the power meter can operate steadily for a long time. The meter does not need to be re-adjusted so that the calibration cycle is long, it will greatly reduce the labor of the Electricity Board for re-calibrating power meters. The product features anti-theft, long life, high accuracy, high reliability, low power consumption, small volume, light weight. The meter complies with IEC 61036.

■ Technical Data:

Rated Voltage : 220V - 240V

Accuracy : 1.0

Rated Current : 1.5(6)A, 2.5(10)A, 5(20)A, 10(40)A,
15(60)A, 20(80)A, 5(30)A, 10(60)A

Pulse width : 80ms±20ms

DTS989 Electronic Three Phase Kilowatt Hour Meter



DTS989-4



DTS989-6

■ Application

DTS989 electronic three-phase watt hour meter adopts advanced IC technology, both circuit design and components selections to meet various working conditions to guarantee the power meter can operate steadily for a long time. The finished meter does not need to be re-adjusted so that the calibration cycle is long, it will greatly reduce the labor of the Electricity Board for re-calibrating power meters. The product features anti-theft, long life, high accuracy, high reliability, low power consumption, small volume, and light weight. The meter complies with IEC 61036.

■ Technical Data:

Name	Type	Accuracy (class)	Rated voltage(v)	Rated current(A)	Connection Mode
Three-phase four wire active electronic type watt-hour meter	DTS989	1	3x220/380	3x1.5(6), 3x3(6)	Input through current transformer
				3x5(20), 3x10(40), 3x15(60), 3x5(30), 3x10(60),	Directly input

DDSF989 Electronic Single Phase Kilowatt Hour Meter



DDSF989-4



DDSF989-6

■ Application

DDSF989 is used for measuring rated frequency 50Hz or 60Hz single phase AC active energy. It can measure multi tariffs with other functions.

■ Functions and Features

1. DDSF989 series meter has all functions which DDS989 has.
2. Two (or four) tariffs, ten time sections;
3. Calendar and clock function
4. RS485 or S232 output interface (to be selected) and concentrate record
5. Infrared communication interface;
6. Indicate by two counters of LCD.,LED
7. Copy and set meter by hand-hold unit; hand-hold computer and PC computer can communicate with RS485 or RS232 output interface;

DTSF989 Electronic Three Phase Prepayment Kilowatt Hour Meter



DTSF989-4



DTSF989-6

■ Application

DTSF989 is used for measuring rated frequency 50Hz or 60Hz three phase AC active energy. It can measure multi tariffs with other functions.

■ Functions and Features

1. DTSF989 series meter has all functions which DTS989 has.
2. Two (or four) tariffs, ten time sections;
3. Calendar and clock function
4. RS485 or S232 output interface (to be selected) and concentrate record
5. Infrared communication interface;
6. Indicate by two counters of LCD., or LED
7. Copy and set meter by hand-hold unit; Hand-held computer and PC computer can communicate with RS485 or RS232 output interface;

Panel Meter



Moving Iron Instruments AC Ammeters

Model: 3S-96A 3S-72A 3S-48A

Accuracy: Class1.5

Specification: 0.1A, 0.5A, 1A, 1.5A, 3A, 5A, 7.5A, 10A, 15A, 20A, 25A, 30A, 40A, 50A, 60A, 75A, 100A

For 5A~10kA use external current transformer with secondary current 5A and 1A.

Notes: For 60A,75A,100A meters,when these meters directly connected to circuit, their accuracy is class 2.5. For 20A~60A direct reading 3S~48A meters,the accuracy is class2.5



Moving Iron Instruments AC Voltmeters

Model: 3S-T96V 3S-T72V 3S-T48V

Accuracy: Class1.5

Specification: 30V, 50V, 75V, 100V, 120V, 150V, 200V, 250V, 400V, 450V, 500V, 600V, 450V~450KV,

Meters can use potential transformer with secondary voltage 100V.

Notes: For 60A,75A,100A meters,when these meters directly connected to circuit, their accuracy is class 2.5. For 20A~60A direct reading 3S~48A meters,the accuracy is class2.5



Moving Coil Instruments Frequency Meters(240° 90°)

Model90DEG: 3S-F96 3S-F72 3S-F48
240DEG: 3S-F96 3S-F72 3S-F48

Accuracy: Class1.5

Voltage: 50V,100V,220V,380V,440,415V

Frequency: 45~55HZ,45~65HZ,55~65HZ, 47~53HZ,57~63HZ,44~56HZ,54~66HZ, 450~550HZ,450~650HZ,550~650HZ



Moving Coil Instruments Power Factor Meter (240° 90°)

Model90° : 3S-PF96 3S-PF72
240° : 3S-F96 3S-F72 3S-F48

Accuracy: Class2.5

Voltage: 100V,220CV,380V,415V/current 1A or 5A

Voltage: 0.5cap-1-0.5ind 0.3cap-1-0.4ind 0.7cap-1-0.2ind



Moving Coil Instruments Power Factor Meters(90°)

Wattmeter Model90° : 3S-W96 3S-W72 3S-W48
Varmeter Model90° : 3S-Var96 3S-Var80 3S-Var72 3S-Var48

Accuracy: Class2.5

Voltage:

Single phase:100V 220V 380V

Three phase three wire:100V 220V 380V 415V
Three phase four wire:100V 220V(380V) 240V(415V)

About - mentioned can be connected directly
The following should be connected with voltage transformers: 380/100V 500/100V 3K/100V 6K/100V 10K/100V 35K/100V.....
Current: 1A,5A



Moving Coil Instruments AC Ammeters For Explosive Gas Atmospheres

Model: 3S-E96A 3S-E72A

Accuracy: Class1.5

Specification: AC 100mA 1A 3A 5A

For 10A~10KA meters have to use external transformer with secondary current 1A,5A

Frequency: 50/60HZ

Consumption: 0.2VA



Maximum Demand Ammeters

For measuring mean maximum current value, when it is 8min or 15 min or 30min.

Model: 3S-M96

Accuracy: Class3.0



Combined With Moving Iron Ammeters

For measuring mean maximum content value and instantaneous values for combined with moving iron movement meters.

Model: 3S-2M96 3S-2M72

Accuracy: Class3.(instantaneous values)
Class1.5



Moving Iron Voltmeter with change over switch for AC Ammeters&Voltmeters

The instrument are suitable for measuring AC Voltages In Three phase 4 or 3 wire networks by using change over switch on the front side of the instrument.

Model: 3S-Z96V 3S-72V.

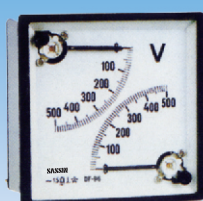
Movement: Moving-iron movement with oil filled bearings,practically vibration-free oil damping

Accuracy: Class1.5

Ferequency range: 50HZ

3 phase 4 wire Measuring range: 60/100V 80/150V 100/200V 150/250V 250V/400V 300/500V

3 phase 3 wire Measuring range: 100V 150V 200V 250V 400V 500V

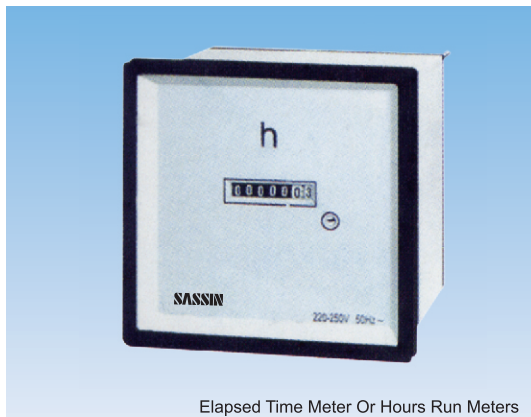


Double Voltmeters

Model: 3S-2T96-V
3S-2T72-V
3S-2L96V
3S-2L72-V

Specification: 0-100V 0-300V 0-500V

Panel Meter



Elapsed Time Meter Or Hours Run Meters

Model: 3S-H96 3S-H72 3S-H48

Display: 99999.9

Voltage: AC 100~125V AC200~250V
AC380V~440V AC 24V

Burden: 2.5VA

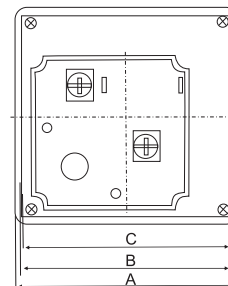
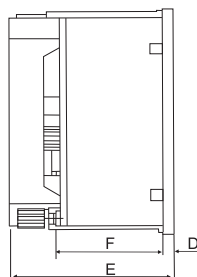
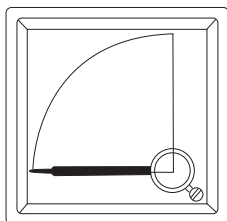
Frequency: 50/60HZ

Features: Elapsed Time Meters or Hours Run
Meters monitor ON/RUN time of plant.

Scale plate division table	
3 division	15/5A, 30/5A,60/5A,75/5A,150/5A, 120/5A, 300/5A,600/5A,750/5A1500/5A etc
4 division	20/5A, 40/5A,160/5A,200/5A,400/5A,800/5A, 1600/5A,2000/5A, etc
5 division	5/5A, 10/5A,25/5A,50/5A,100/5A,250/5A, 500/5A,1000/5A, 2500/5A etc

Model	Unit	A	B	C	D	E	F
3S-96	mm In	96 3.74	92 3.62	90 3.54	5.5 0.22	65 2.56	43 1.69
3S-72	mm In	72 2.83	68 2.68	66 2.60	5.5 0.22	65 2.56	43 1.69
3S-48	mm In	48 1.89	44 1.73	42 1.65	5.5 0.22	65 2.56	43 1.69

Outline Drawing



Maximum Demand Indicator With Relay

Model: 3S-AM96 3S-AM72

Features: For the control of Maximum Demand and control of overload on distribution systems, Constructed with an electronic circuit and 5A relay.

The alarm was set by the blue slim pointer, The red light is the alarm one. Which can be used with buzzer.

Accuracy: Class3.0

Rating: 1A,5A for use with separate CT

Frequency: 50/60HZ

Overload: \$1.2 continuous,10x1second via 5/5CT

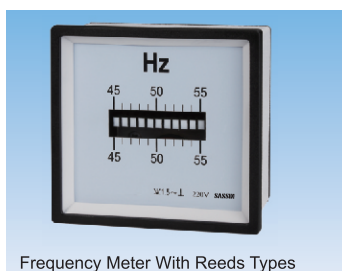
Relay Circuit:

Auxiliary: AC220V $\pm 10\%$ 50/HZ Burden:2.6VA

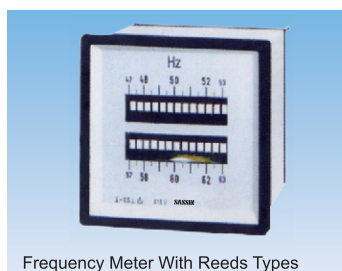
Bestrewns: <1%

Time delay: 1 second approximately fixed

Alarm and Trip point: Working Range:20-100% $\pm 10\%$



Frequency Meter With Reeds Types



Frequency Meter With Reeds Types

One row of reeds Model: 3S-R96 3S-R72

Two rows of reeds Model: 3S-2R96

Accuracy: Class 0.5

Voltage: 50V 100V 220V 380V 440V 415V

Frequency: 45~55HZ 45~65HZ 55~65HZ 47~53HZ 57~63HZ 44~56HZ 450~550HZ
450~650HZ 550~650HZ

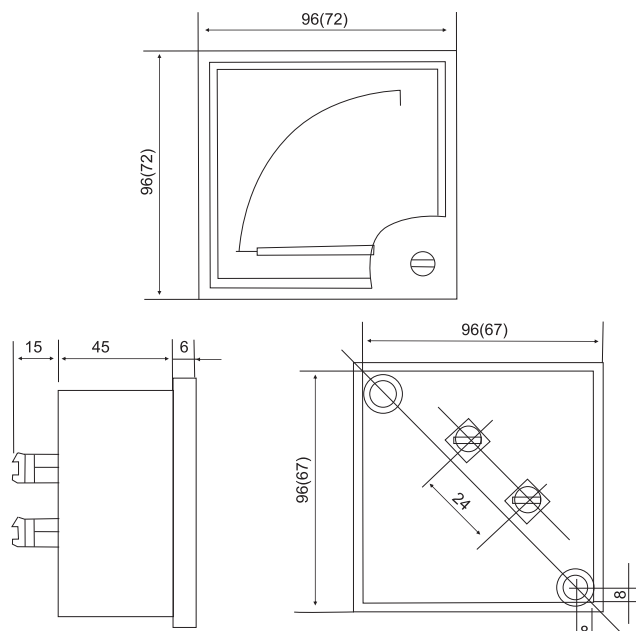
This vibrating reed frequency meter with one row of horizontal reeds or with two rows of horizontally arranged reeds for connection to one main voltage, Vertical arrangements on request.

Black Color Type Seris Panel Meter 3S-96/3S-72



Model	Specification
AC Ammeter	0.1A 0.5A 4A 5A 7.5A 10A 15A 20A 25A 30A 40A 50A 60A 75A 80A 100A
AC Voltmeter	30V 50V 75V 100V 120V 150V 250V 400V 450V 500V 600V
DC Ammeter	100 μ A 1mA 3mA 5mA 10mA 20mA 30mA 50mA 100mA 150mA 200mA 300mA 500mA 1A 3A 5A 7.5A 10A 20A 30A 40A 60A
DC Voltmeter	3V 5V 7.5V 10V 15V 20V 30V 50V 100V 150V 200V 250V 300V 450V 600V 1000V 45mV 60mV 75mV
Frequency Meter	45-55Hz 45-65Hz 47-63Hz 57-66Hz 350-450Hz 440V HZ 450-550Hz 550-650Hz
Power Factor Meter	1phase or 3phase:110V 220V 380V 440V current:5A Frequency:50Hz or60Hz 0.5cap-0.5ind 0.3cap-0.7ind 0.4cap-0.4ind 0.7cap-0.2ind
KW Meter	Voltage Single Phase:100V 220V 380V Three Phase three wire:100V 220V 380V 415V Three Phase four wire:100V 230V(380V) 240V (415V) Above-mentioned can be connected directly The following should be connected with voltage transformers: 380/100V 500/100V 3K/100V 6K/100V 10K/100V 15K/100V 35K/100V Current:1A, 5A

Dimension:

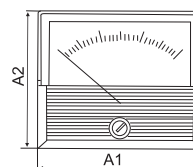


Panel Meter



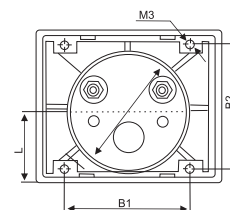
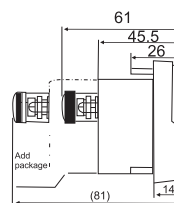
These type of meters have the same function and outline drawing as new type 3S panel meter. The same outline drawing. The difference between them is appearance of the shell. and color of the needle, one is black and the other is red.

AC.A	0.1A,0.5A,1A,3A,5A,7.5A,10A,15A,20A,30A,40A,50A,60A,80A
AC.V	30V,50V,60V,100V,150V,250V,300V,500V,600V
DC.A	50 μ A,100 μ A,500 μ A,1mA,5mA,20mA,500mA,1A,3A,5A,7.5A,10A,15A,20A,25A,30A
DC.V	3V,5V,7.5V,10V,15V,20V,30V,50V,75V,100V,120V,150V,200V,300V,400V,450V,550V,600V,100V
Voltage	50V,100V,220V,380V,440V,415V
Frequency(Hz)	45-55Hz 45-65Hz 47-63Hz 44-56Hz 57-66Hz 350-450Hz 450-550Hz 450-550Hz 550-650Hz



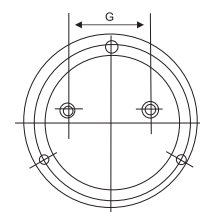
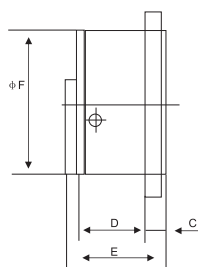
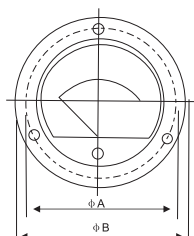
The items of B1 and B2 for the distance of the mounting screws.
The items D1 for the size of panel cut-out of switchboard.

Model	Unit	A1	A2	B1	B2	Dmax	L	D1
3S-80	mm	80	80	64	64	64.5	29.2	65.5
	In	3.15	3.15	2.52	2.52	2.50	1.15	2.58
3S-670	mm	70	60	48	48	52	27.2	53
	In	2.67	2.36	1.89	1.89	2.05	1.07	2.09
3S-60	mm	60	60	48	48	51	51	52
	In	2.36	2.36	1.89	1.89	2.01	2.91	2.05
3S-50	mm	50	50	36	36	43	23.2	44
	In	1.99	1.99	1.42	1.42	1.69	0.91	1.73



Model	Unit	A	B	C	D	E	F	G
3S-52	mm	58	66.5	4.5	26	40.5	52	39
3S-65	mm	73.5	83.5	4.5	31	42	65	39
3S-62T2	mm	75	90	8	45	65	70	35

Outline Drawing



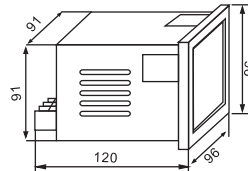
Digital Panel Meter



SE96 Voltmeter-9X4

outline dimension:
96X96X120

opening dimension:
91X91



■ SE96 Type 3-phase display meter

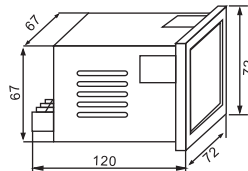
- SE96 Ammeter— 9X4
Display 3-phase ABC currents
- SE96 Voltmeter—9X4
Display 3-phase ABC voltage
- SE96 Frequency meter—9X4
Display voltage current and frequency



SE72 Voltmeter—AX4

outline dimension:
72X72X120

opening dimension:
67X67



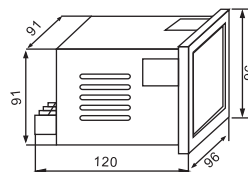
■ SE72 Type 3-phase display meter

- SE72 Ammeter— AX4
Display 3-phase ABC currents
- SE72 Voltmeter—AX4
Display 3-phase ABC voltage
- SE72 Frequency meter—AX4
Display voltage current and frequency



SE96 AV

outline dimension:
96X96X120



■ Combination display meter of voltage and current

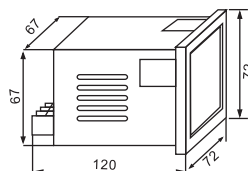
SE96 AV—9X7 Display voltage and current

(Combination of voltage and frequency and other combinations are Available for choice)



SE72 AV—AX7

outline dimension:
72X72X120



■ Combination display meter of voltage and current

SE72 AV—AX7 Display voltage and current

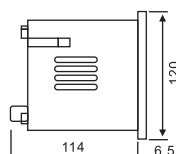
(Combination of voltage and frequency and other combinations are Available for choice)



SE42M

outline dimension:
120X120

opening dimension:
111X111



■ Multi-functional power meter

SE96M 96x96
SE42M 42x42

All electricity parameters in power network
3-phase voltage, current, active power, reactive power, frequency and power factor, etc.

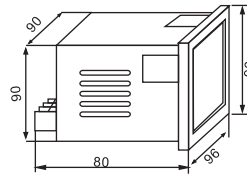
Digital Panel Meter



SE96-9X1

outline dimension:
96X96X80

opening dimension:
90X90



■ 96X96 Square digital display meter

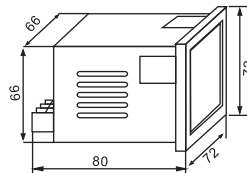
SE96-9X1	AC ammeter
SE96-9X1	DC ammeter
SE96-9X1	AC voltmeter
SE96-9X1	DC voltmeter
SE96-9X1	3-phase active power meter
SE96-9X1	3-phase reactive power meter
SE96-9X1	Frequency meter
SE96-9X1	Power factor meter
SE96-9X1	Single phase wattmeter



SE72-AX1

outline dimension:
72X72X80

opening dimension:
66X66



■ 72X72 Square digital display meter

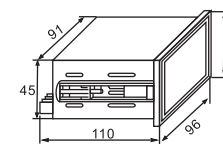
SE72-AX1	AC ammeter
SE72-AX1	DC ammeter
SE72-AX1	AC voltmeter
SE72-AX1	DC voltmeter
SE72-AX1	3-phase active power meter
SE72-AX1	3-phase reactive power meter
SE72-AX1	Single phase wattmeter
SE72-AX1	Frequency meter
SE72-AX1	Power factor meter



SE96-5X1

outline dimension:
96X48X110

opening dimension:
91X45



■ 96X48 Rectangular digital display meter

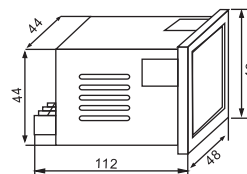
SE96-5X1	AC ammeter
SE96-5X1	DC ammeter
SE96-5X1	AC voltmeter
SE96-5X1	DC voltmeter
SE96-5X1	3-phase active power meter
SE96-5X1	3-phase reactive power meter
SE96-5X1	Frequency meter
SE96-5X1	Power factor meter
SE96-5X1	Single phase wattmeter



SE48-DX1

outline dimension:
48X48X112

opening dimension:
44X44



■ 48X48 Square digital display meter

SE48-DX1	AC ammeter
SE48-DX1	DC ammeter
SE48-DX1	AC voltmeter
SE48-DX1	DC voltmeter
SE48-DX1	Frequency meter



SE-T45

■ Guiding rail mounting type voltage, current and frequency meter

SET45-TX1	AC ammeter
SET45-TX1	DC ammeter
SET45-TX1	AC voltmeter
SET45-TX1	DC voltmeter
SET45-TX1	Frequency meter

Digital Display Panel Meter



3S292Z-9X5-IUHF



3S292Z-9X5-IUF



3S292Z-9X6-IU



3S292Z-9X4-3I

Technical parameters		Index
Input	Network	Three phase three-wire, three-phase four-wire
	Voltage	Rated AC 57.7V、100V、220V、380V
		Over load Consistent:1.2 times instantaneous:2 times/30s
		Consumption <0.5VA(each phase)
		Impedance >500k Ω
	Current	Rated value AC 1A、5A
		Over load Consistent:1.2 times instantaneous:20 times/1s
		Impedance <20m Ω (each phase)
	Frequency	45~65Hz
Output	Communication	Output mode RS485
		Protocol MODBUS_RTU
		Baud rate 1200, 2400, 4800, 9600
	Analog quantity	Quantity of channel Four
		Output mode 0~20mA、4~20mA programmable
		Overload ability ≤400 Ω
	Switching value	Quantity of channel 4 channels
		Output mode Normally open relay contact output
		Contact capability AC 240V/1A
	Display mode	LED display
Measuring accuracy	Voltage,current	± (0.5%FS+1 digit)
	Frequency	±0.1Hz
	Power factor	±0.01PF
Power supply	Scope	AC/DC 85~264V
	Consumption	<5VA
Environment	Temperature	Operation: -10~50℃ Storage: -25~70℃
	Humidity	≤85%RH, free of wet and gas corruption
	Elevation	≤3000m

Instrument type	3S292Z-9X5-IUHF	3S292Z-9K5-IUHF	3S292Z-9B5-IUHF	3S292Z-9T5-IUHF	3S292Z-9S5-IUHF	3S292Z-9D5-IUHF	3S292Z-9X5-IUF	3S292Z-9K5-IUF	3S292Z-9X6-IU	3S292Z-9K6-IU	3S292Z-9X4-3I
Function											
Current	●	●	●	●	●	●	●	●	●	●	●
Voltage	●	●	●	●	●	●	●	●	●	●	●
Frequency	●	●	●	●	●	●	●	●			
Power factor	●	●	●	●	●	●					
Demand value	●	●	●	●	●	●	●	●			
RS485				●	●	●					
One-channel switching value output								●		●	
Four-channel switching value output		●			●						
Four-channel transmitting output			●			●					
Over-high/over-low protect alarm	●	●		●			●			●	
Shape	96×96mm										

Digital Display Panel Meter



3S294U-G



3S292U-7



3S294U-7

General Introduction

3S29 series meter is designed to measure RMS value of AC voltage and set the alarm value of voltage and delay time. When measured voltage is over the set value, the output relay is activated at the end of the adjusted time delay, generates an alarm signal and display starts blinking.

Technical parameters	
Operational power, frequency	220 VAC $\pm 10\%$ 50/60Hz
Network type	Single-phase/two-wire, three-phase/four-wire
Accuracy class	$\pm (0.5\%FS+1 \text{ digit})$
Measuring class	Single-phase 10-600VAC Three-phase 10-300VAC(L-N) 10-500VAC(L-L)
Instrument consumption	<4VA
Input circuit consumption	<1VA
Output contact capability	AC240V 5A
Control switching difference	0.1%FS-50.0%FS can be set
Delay	0.0-99.9 s

Product type	Description
3S294U-5X1	Single-phase voltmeter + one alarm output channel(96×48mm)
3S294U-5K1	Single-phase voltmeter(96×48mm)
3S292U-5X1	Three-phase four-wire voltmeter(96×48mm)
3S294U-7X1	Single-phase voltmeter + one alarm output channel(72×72mm)
3S294U-7K1	Single-phase voltmeter(72×72mm)
3S292U-7X1	Three-phase four-wire voltmeter(72×72mm)
3S294U-9X1	Single-phase voltmeter + one alarm output channel(96×96mm)
3S294U-9K1	Single-phase voltmeter(96×96mm)
3S292U-9X1	Three-phase four-wire voltmeter(96×96mm)
3S294U-GX1	Guide-way single-phase voltmeter
3S292U-GX1	Guide-way three-phase four-wire voltmeter



3SB294U-5

3S292U-5

Digital Display Panel Meter



3S294I-5



3S294I-7



3S294UI-G



3S294I-9

General Introduction

3S29 series meter is AC Ammeter applying RMS measuring mode(CT ratio can be set), which is provided with alarm output function and can set the alarm point and alarm delay time.

Technical parameters	
Operational power, frequency	220 VAC $\pm$ 10% 50/60Hz
Network type	Single-phase/two-wire
Accuracy class	$\pm$ (0.5%FS+1 digit)
CT transformation ratio	1-9999 times
Measuring input	50mA—5.5A 10mA-1.1A
Measuring range	50mA—10000A 10mA-10000A
Instrument consumption	<4VA
Input circuit consumption	<1VA
Output contact capability	AC240V 5A
Control switching difference	0.1%FS-50.0%FS can be set
Delay	0.0-99.9 s
Temperature	-5℃~+50℃

Product type	Description
3S294I-5X1	Ammeter(96×48mm)
3S294I-5K1	Ammeter with one alarm output channel(96×48mm)
3S294I-7X1	Ammeter(72×72mm)
3S294I-7K1	Ammeter with one alarm output channel(72×72mm)
3S294I-9X1	Ammeter(96×96mm)
3S294I-9K1	Ammeter with one alarm output channel(96×96mm)
3S294I-GX1	Guide-way ammeter

Digital Clamp Meter



266

- 3 1/2 digits LCD with a Max. reading of 1999
- Data-hold function
- Low battery indication
- Audible continuity
- Plug-in insulation tester adapter 500VDC (optional)

Accessories:
Test Lead, Battery(6F22(9V)x1), Instruction Manual
Carrying Case



Specifications

Function	Measuring Range	Accuracy
DCV	1000V	± 0.8%
ACV	750V	± 1.2%
ACA	200-1000A	± 2.5%
OHM	200-20KΩ	± 1.0%
	20M-2000MΩ (with 2621)	± 4.0%
Size / weight	230x70x37mm / 310g	



266C

- 3 1/2 digits LCD with a Max. reading of 1999
- Data-hold function
- Temperature measurement
- Low battery indication
- Plug-in insulation tester adapter 500VDC (optional)

Accessories:
Test Lead, Battery(6F22(9V)x1), Instruction Manual
Carrying Case



Specifications

Function	Measuring Range	Accuracy
DCV	200m-2-20-200-1000V	± 0.8%
ACV	200-750V	± 1.2%
ACA	20-200-1000A	± 2.5%
OHM	200-20K-2MΩ	± 1.0%
	20M-2000MΩ (with 261)	± 4.0%
Temperature	-40°C ~ 750°C	± 3.0%
Size / weight	230x70x37mm / 310g	



2017

- 3 1/2 digits LCD with a Max. reading of 1999
- Three functions in one unit: ACV, ACA & OHM
- Resistance range provides audible continuity test
- Data-hold function

Accessories:
Test Lead, Battery(6F22(9V)x1), Instruction Manual,
Carrying Case



Specifications

Function	Measuring Range	Accuracy
ACV	200-600V	± 1.5%
ACA	200-600V	± 2.0%
OHM	200Ω	± 1.2%
Clamp size	33mm (Max)	
Size / weight	208x90x40mm / 290g	



MT406A

- 3 1/2 digits LCD with a Max. reading of 1999
- Low battery indication
- Data-hold function
- Overload protection

Accessories:
Test Lead, Battery(6F22(9V)x1), Instruction Manual,
Carrying Case



Specifications

Function	Measuring Range	Accuracy
DCV	600V	± 0.8%
ACV	600V	± 1.0%
ACA	20-200-600A	± 2.0%
Diode Check	3.2V/1.2mA	
Size / weight	76x195x36mm/260g	

Multimeters



YX1000A

- Pocket size and light weight
- Easy to read 3 colour scale
- Recessed safety input terminals

Accessories:
Test Lead, Battery(AA(1.5V)x1), Instruction Manual



Specifications

Function	Measuring Range	Accuracy
DCV	0-10-50-250-1000V	± 3.0%
ACV	0-10-50-250-1000V	± 5.0%
DCA	0-0.5-50-500mA	± 3.0%
OHM	Rx10,Rx100,Rx1K	± 3.0%
Size / weight	100x64x32mm / 80g	



YX2000A

- Pocket size and light weight
- 5 Functions 16 measuring ranges
- 2000 ohms/volt DC/AC
- Battery test
- Safety test leads & instruction

Accessories:
Test Lead, Battery(AA(1.5V)x1), Instruction Manual



Specifications

Function	Measuring Range	Accuracy
DCV	2-2.5-10-50-250-500V	± 3.0%
ACV	0-10-50-250-500V	± 5.0%
DCA	0-500μ-10m-250mA	± 3.0%
OHM	Rx10,Rx1K	± 3.0%
Battery check	1.5V, 9V	
Size / weight	100x64x32mm / 80g	



YX360TRC

- A large and bright meter with a scale length of 80mm and its sensitivity of 44* A,at full scale
- Excellent DC resolution factor of 2mV and expanded resistance measurement from 0.2Ω~20mΩ
- Fuse and diode protection

Accessories:
Test Lead, Battery(6F22(9V)x1, AA(1.5V)x2), Instruction Manual



Specifications

Function	Measuring Range	Accuracy
DCV	0.1-0.25-2.5-10-50-250V	± 3.0%
ACV	10-50-250V	± 4.0%
DCA	50μ-2.5m-25m-0.25A	± 3.0%
OHM	2K-20K-2MΩ	± 3.0%
L1	150μ-1.5m-15m-150mA	
dB	-10dB~+62dB	
CAP	10μF	
hFE	0~1000	
Size / weight	160x128x41mm / 320g	



YX360TRes

- Mirrored 3 color scale for easy reading
- 18 ranges and 4KΩ/V DC/AC sensitivity
- Battery check function
- Fuse and diode protection
- Recessed input terminals for safe use

Accessories:
Test Lead, Battery(6F22(9V)x1, AA(1.5V)x2), Instruction Manual



Specifications

Function	Measuring Range	Accuracy
DCV	0.25-10-50-250-500-1000V	± 3.0%
ACV	10-50-250-500-1000V	± 5.0%
DCA	0.25m-2.5m-25m-250mA	± 3.0%
OHM	2K-20K-2MΩ	± 3.0%
Batt	1.5V	
Size / weight	125x85x35mm / 150g	



YX360TRN

- A large and bright meter with a scale length of 80mm and its sensitivity of 44* A,at full scale
- Excellent DC resolution factor of 2mV and expanded resistance measurement from 0.2Ω~20mΩ
- Fuse and diode protection

Accessories:
Test Lead, Battery(6F22(9V)x1, AA(1.5V)x2), Instruction Manual



Specifications

Function	Measuring Range	Accuracy
DCV	0.1-0.5-2.5-10-50-250-1000V	± 3.0%
ACV	10-50-250-1000V	± 4.0%
DCA	50μ-2.5m-25m-0.25A	± 3.0%
OHM	2K-20K-200K-2M-20MΩ	± 3.0%
L1	150μ-1.5m-15m-150mA	
dB	-10~+62dB	
hFE	0~1000	
Size / weight	148x100x35mm / 280g	

Digital Multimeters



SUNS30 series

Display:	
suns30,suns31	Digital 2400 counts, updates 3/sec
suns32-suns37	Digital 1900 counts, updates 3/sec
Operating Temp.	-50°C ~ 1000°C
Storage Temp.	-50°C ~ 1000°C
Battery Type:	
suns30,suns31	1.5Vx2 AAA R03 SUM-4
suns32-suns37	6F22 9V x 1
Continuity Beeper	2700Hz
Size (H x W x L)	3.9cm x 7.0cm x 15.5cm
Weight	about 230g
Safety	600V CAT II

Specifications

Function	Measuring Range	Accuracy
DCV	240mV-600V	± 0.8%
ACV	2.4V-600V	± 1.5%
DCA	240μA-10A	± 1.2%
ACA	240μA-10A	± 1.5%
OHM	240Ω-24MΩ	± 1.0%
CAP	250nF-25μF (only for suns31)	± 3.0%
Hz	50Hz-5 0MHz	± 1.2%

Function	SUNS32H	SUNS32L	SUNS33H	SUNS33L	SUNS35	SUNS36	SUNS37L
DCV	200mV-600V	200mV-600V	200mV-600V	200mV-600V	200mV-600V	200mV-600V	200mV-600V
ACV	200V-600V	200V-600V	200V-600V	200V-600V	200V-600V	200V-600V	200V-600V
DCA	2mA-10A	2mA-10A	200μA-10A	200μA-10A	20mA-10A	2mA-10A	200mA-20A
Ω	200Ω-2MΩ	200Ω-2MΩ	200Ω-2MΩ	200Ω-2MΩ	200Ω-2MΩ	200Ω-2MΩ	200Ω-2MΩ
⎓	Yes	Yes	Yes	Yes	Yes	Yes	Yes
⎓	50Hz	/	50Hz	/	/	50Hz	50Hz
hFE	Yes	Yes	/	/	/	/	/
BATT. Check	/	/	/	/	1.5V-9V	/	1.5V-9V
°C	/	/	/	/	/	-40°C ~ 1200°C	/
Transistor	1-1000 β	1-1000 β	1-1000 β	1-1000 β	1-1000 β	1-1000 β	1-1000 β
DATA HOLD	Yes	/	Yes	/	Yes	/	/
BACK LIGHT	/	Yes	/	Yes	Yes	Yes	Yes
AUTO POWER OFF	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Metal Detector



TS-75 2 in 1

- The detector can test the location of metal and electrified wire inside wall
- The Detector will shine and sound when it tests metal or electrified wire.

Specifications

Function	Measuring Range
Metal Detector	Depth up to 25mm(Φ 15mm Steel pipe)
Voltage Detector	Depth up to 30mm (AC110V) Depth up to 40mm (AC220V)
Ambient Condition	-20°C ~ 60°C Below 30-80%RH
Size / weight	150x78x24mm / 110g
Battery	6F22(9V)x1



TS-78 3 in 1

- The detector can test the location of metal, wood and electrified wire inside wall
- The Detector will shine and sound when it tests metal or electrified wire.

Specifications

Function	Measuring Range
Metal Detector	Depth up to 25mm(Φ 15mm Steel pipe)
Voltage Detector	Depth up to 30mm (AC110V) Depth up to 35mm (AC220V)
Stud Detector	Depth up to 20mm
Ambient Condition	-20°C ~ 60°C, Below 30-80%RH
Size / weight	178x122x35mm / 230g
Battery	6F22(9V)x1

3S-900 Digital Adjuster



3S-909



3S-907



3S-908



3S-906



3S-904

■ Application

3S-900 series intelligent PID digital adjusters adopt advanced ASIC chips and technology with advantages of small size. The products are manufactured according to the international standards and use 85-264VAC wide range input switch power. Multiple installation dimensions allow for compatibility with most of the automatic industrial controlling /adjusting instruments in the world in respects of performance specifications, input patterns, output functions and installation dimensions, therefore the products are digital controllers at internationally advanced level.

3S-900 series are multi-functional controlling instruments for alarm, transmission, control and communication. The advanced expert PID adjusting algorithm incorporates the advantages of fuzzy controlling and PID controlling and achieves ideal control on objects changing quickly and with long hysteresis. The operation becomes even easier as the instrument has the function of self fine adjustment.

When adopting bit adjustment, 3S-900 series can be used to directly replace the traditionally used single display, 2-bit /3-bit / 4-bit adjustment, alarm and transmission output instruments. On the other hand, it has more functions including manual /automatic switch over control without interference, self manual adjustment and display output.

■ Specification:

Input information: Thermocouple K.S.E.J.T.B.N

Thermal electrical resistance Pt100. Cu50

Linearity Voltage: 0-5V, 1-5V,0-1V,0-100mV,0-20mV

Linearity Current: 0-100mA,4-20mA,0-20mA

Protection function: EM1/ESD, Watertight

Communication function: RS232 / Rs485

Measure precision: 0.2 class ($\pm 0.2\%$ FS)

Transmission output precision: 0.5 class ($\pm 0.5\%$ FS)

Input Voltage (V): AC 85V-265V 50/60HZ

Type	Outlook Dimension	Hole Dimension
3S-909	96x96x100mm	96 $\pm$ 1x91 $\pm$ 1
3S-907	72x72x100mm	68 $\pm$ 1x68 $\pm$ 1
3S-908	48x96x100mm	45 $\pm$ 1x91 $\pm$ 1
3S-906	96x48x100mm	91 $\pm$ 1x45 $\pm$ 1
3S-904	48x48x100mm	45 $\pm$ 1x45 $\pm$ 1

3S-C Digital Adjuster



3S-C900



3S-C700



3S-C400



3S-C100

■ Application

3S-C Series intelligence digital display controller adopts advanced ASIC chips and technology with advantages of small size. The products are manufactured according to the international standards and use transformer or 85-264 VAC wide range input switch power. Multiple installation dimensions allow for compatibility with most of the automatic industrial controlling / adjusting instruments in respects of performance specifications, input patterns, output functions and installation dimensions.

■ Product features:

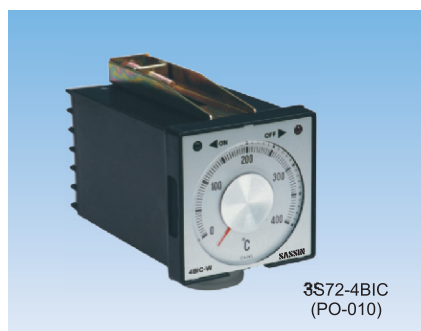
- Imitate digital filter waves
- Red and green numerical tubes display PV and SV simultaneously
- Digital PID adjustment, all data input from panel.
- Function of sensor revising
- Software control full range from 0, no potentiometer.
- Manual / automatic switch over control without interference
- Function of second class data lock protection
- Self adaptation, self adjustment

■ Specification:

- Input information: Thermocouple K.S.E.J.T.B.N
- Thermal Electrical Resistance Pt100. Cu50
- Input Voltage (V): AC 85V--265V 50/60Hz
- Rated Current: 0-100mA, 4-20mA

Type	Outlook Dimension	Hole dimension	
		A	B
3S-C900	96x96x113mm	92 ^{+0.8}	92 ^{+0.8}
3S-C700	72x72x113mm	68 ^{+0.7}	68 ^{+0.7}
3S-C400	48x96x113mm	92 ^{+0.6}	45 ^{+0.8}
3S-C100	48x48x108mm	45 ^{+0.6}	45 ^{+0.6}

Electronic Temperature Controllers



■ Specification:

Type	Feature	Outlook Dimension	Hole Dimension
3S96-93301	96x96x100mm	92 ^{+0.6}	92 ^{+0.6}
3S72-4BIC (PO-010)	Dial setting, number indicating thermoregulator	72x72x100mm	68x68mm
3S72-8001 (PO-019)	Button setting, whole volume range indicating thermoregulator	72x72x100mm	68x68mm
3S96-92001	Button setting, number indicating thermoregulator	96x96x100mm	92x92mm
3S72-2211 (IN-037)	Double potentiometers, upper and lower limit setting, number indicating thermoregulator	72x72x100mm	68x68mm
3S72-2001 (IN-038)	Single potentiometer setting, number indicating thermoregulator	72x72x100mm	68x68mm
3S72-93301 (IN-039)	Coding setting, whole volume range number indicating thermoregulator	72x72x100mm	68x68mm
3S72-92001 (IN-040)	Button setting, whole volume range number indicating thermoregulator	72x72x100mm	68x68mm

Electronic Temperature Controllers



■ Specification:

Type	Feature	Outlook Dimension	Hole Dimension
3S4896-93301 (IN-042)	Coding setting, number indicating thermoregulator	48x96x100mm	45x92mm
3S-800 (IN-053)	Coding setting, number indicating thermoregulator	96x48x700mm	92x45mm
3S4896-90001 (IN-052)	Whole volume range number indicating thermoregulator	48x96x100mm	45x92mm
3S48-93301 (IN-049)	Coding setting, number indicating thermoregulator	48x48x100mm	45x45mm
3S4896-3301 (PO-08)	Coding setting, deviation indicating thermoregulator	48x96x100mm	48x92mm
3S48-4001 (PO-024)	Dial setting, no indicating thermoregulator	48x48x75mm	45x45mm
3S-TDA (PO-026)	Button setting, whole volume range indicating thermoregulator	60x120x130mm	55x116mm
3S-TDB (PO-027)	Button setting, whole volume range indicating thermoregulator	120x60x130mm	116x55mm

Electronic Temperature Controllers

■ Specification:

Type	Feature	Out Dimension	Hole Dimension
3S96-3301 (PO-013)	Coding setting, deviation indicating thermoregulator	96x96x100mm	92x92mm
3S96-8301 (PO-014)	Coding setting, whole volume range indicating thermoregulator	96x96x100mm	92x92mm
3S96-2301 (PO-016)	Dial setting, whole volume range indicating thermoregulator	96x96x100mm	92x92mm
3S96-2001 (PO-017)	Button setting, whole volume range indicating thermoregulator	96x96x130mm	92x92mm
3S96-4001 (PO-018)	Button setting, number indicating thermoregulator	96x96x130mm	92x92mm
3S96-93301 (IN-028)	Coding setting, number indicating thermoregulator	96x96x100mm	92x92mm
3S96-2211 (IN-030)	Double potentiometers upper and lower limit setting, number indicating thermoregulator	96x96x130mm	92x92mm
3S96-2001 (IN-031)	Single potentiometer setting, number indicating thermoregulator	96x96x130mm	92x92mm



Electronic Temperature Controllers



TC-1



TC-2



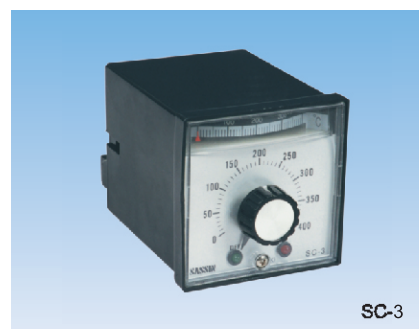
TC-3



JTC-902



JTC-903



SC-3

■ Specification:

Type	TC-1	TC-2	TC-3	JTC-902	JTC-903	SC-3
Input signal	Thermoelement					
Indication type	Without indication	Deviation indication	Distance needle indication	Without indication	Deviation indication	Distance needle indication
Precision grade	Indication:2.5 grade Control:1.5 grade					
Temperature measuring range	0-400℃					
Outer size (mm)	100×110×120			96×96×120		96×96×120
Dimensions (mm)	88×88			88×88		88×88

Electro-Magnetic Counter



CSK4-YKW



CSK5-YKW



CSK6-YKW



CSK4-NKW



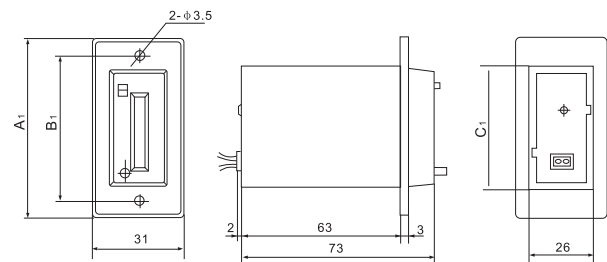
CSK5-NKW



CSK6-NKW

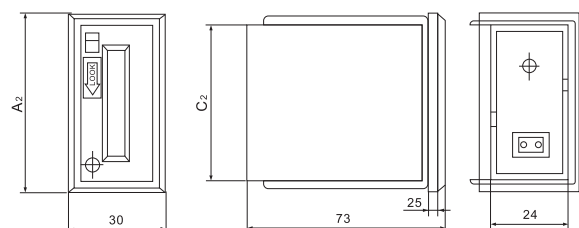
Technical Specifications

Specs.	Models CSK4-YKW/NKW CSK5-YKW/NKW CSK6-YKW/NKW	
Voltage	AC110V,220V	DC-12V,24V
Tolerance	Rated Voltage - 15%~+10%	
Consumption	3VA	3.5W
Counting Speed	10CPS	20CPS
Life	20,000,000 Times	
Test	AC-1,500V(50/60Hz)1 minute(Dielectric)	



Dimensions

Item No.	Dimensions				
	A ₁	B ₁	C ₁	A ₂	C ₂
CSK4-YKW/NKW	60	50	36.5	40	35
CSK5-YKW/NKW	67	57	42	46	41
CSK6-YKW/NKW	72	63	47	51.5	46.5



Hour Meter



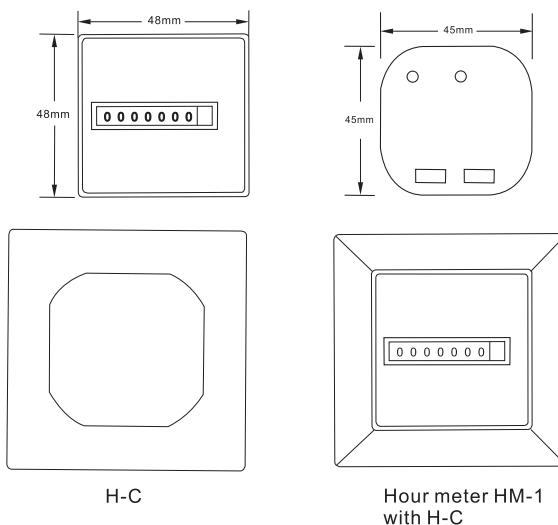
Technical Specifications

Item N O.	HM-1
Supply voltage	AC110V,220/50HZ
Dimensions	48X48X40mm
Time Range	0~99,999.99Hours
Net Weight	50g

Application

- 1.This products is suitable for usage of house, industry, air condition, etc.
- 2.Time setting range available from 0 to 99,999.99 hours.
- 3.Accessories parts H-C Adapter 72x72.

Dimensions(mm)



67-F Rolling Counter



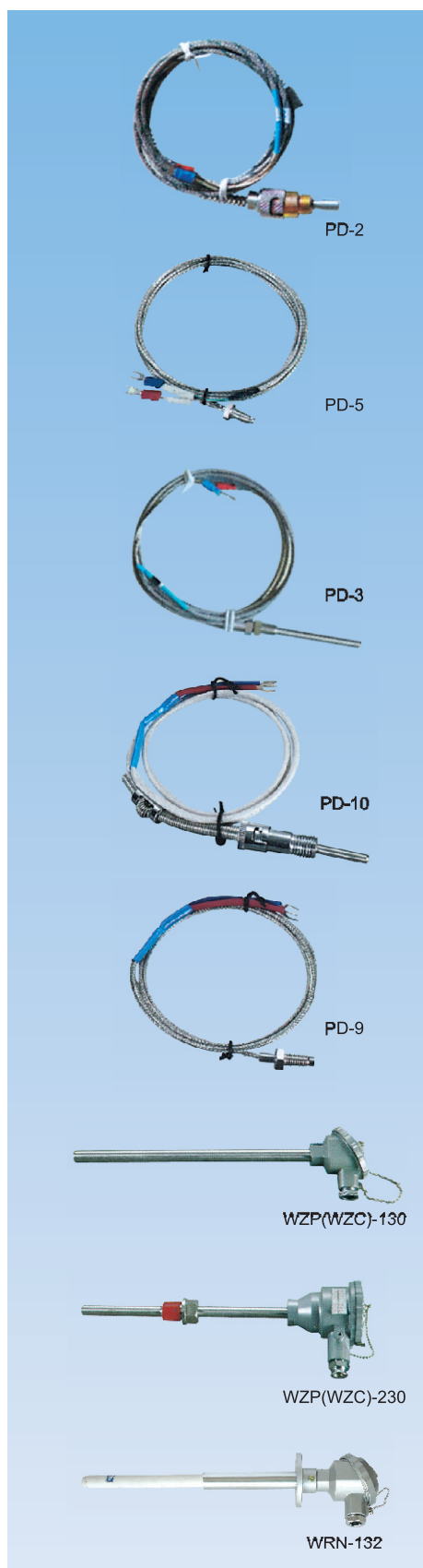
Performance

Flexible number jumping, correct register, clear number display, able to maintain counting under working environmental temperature of -20℃~+60℃.

Main Technical Indexes

- 1、Register range: 0-99999
- 2、Drive ratio: 1: 3
- 3、Maximum register speed: 200 turns/min

Thermocouple Thermal Electrical Resistance



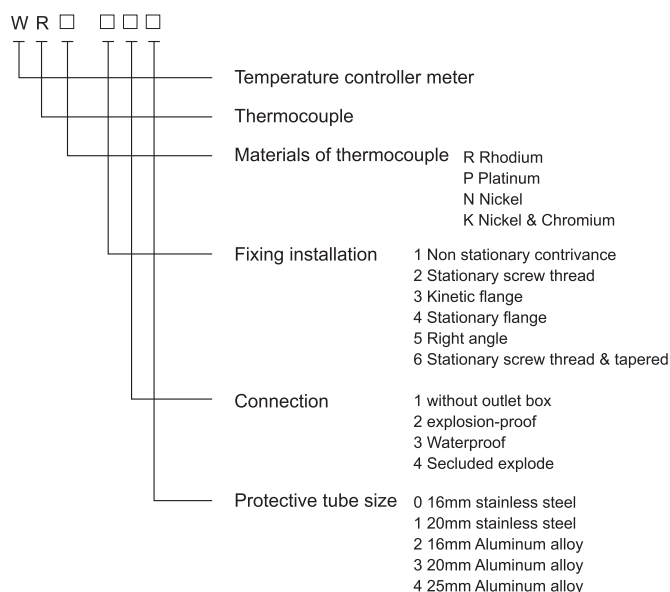
■ Application

WRP、WRR、WRN、WRK for single thermocouple.
WRP2、WRR2、WRN2、WRK2 for double thermocouple.
WZP、WZC、for single thermal electrical resistance
WZP2、WZC2、for double thermal electrical resistance

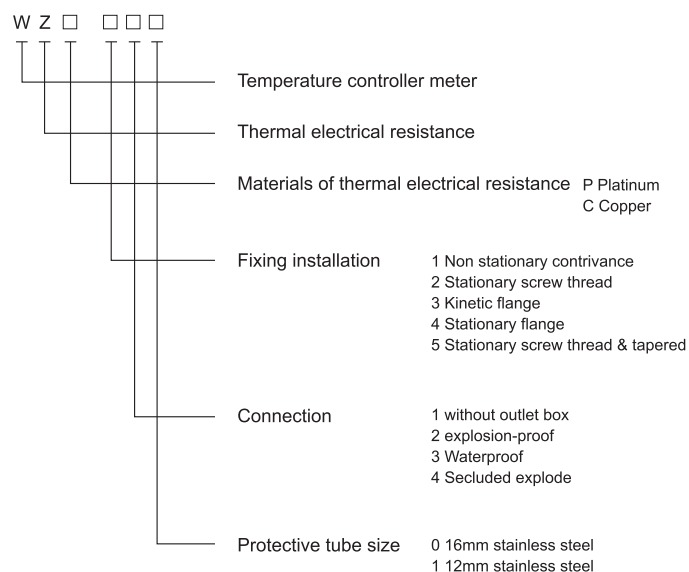
Note: please make sure the length (L= mm) for thermocouple and thermal Electrical resistance when order is to be placed.

■ Type illustration:

1) thermocouple



2) thermal electrical resistance



Power Capacitor BSMJ



BSMJ0.4 - 8 Kvar

BSMJ0.4 - 15 Kvar

BSMJ0.4 - 20 Kvar

■ Main Features

- 1、Compacted and light: Its volume and weight are only 1/4 and 1/5 of the old product because of the using of a new dielectric-metallized poly prop ylene film.
- 2、Low loss: The real figure is lower than 0.10%,so the loss of the capacitor itself is extremely low, the heat it gives out is little and the rise of temperature is low, so its service life is very long and it can save energy at the same time.
- 3、Excellent self-healing ability: Damage of part of the dielectric caused by over-voltage can be self-healed quickly and return to normal state. So the reliability is much higher.
- 4、Safty: In wardly equipped self-discharge resistor and safety equipment. The self-discharge resistor can automatically discharge the electric energy the capacitor carries. If there is anything fault with the capacitor, the safety equipment will cut off power in time, thus prevent further troubles from happening. So it's much safe to use this kind of capacitor.
- 5、No oil leakage: The capacitor uses advanced semi-solid impregnant whose drip melting point it above 70℃.There will be no loss of oil during the course of using it. And thus protect the surroundings from being polluted. The capacitor itself dose not have to run the risk of invalidation caused by oil leakage.

■ Main Technical characteristics

Sevice conditions: Ambient temperature $-25^{\circ}\text{C}\sim+50^{\circ}\text{C}$,humidity $\leq 85\%\text{RH}$,and altitude lower than 2000m.

Rated voltage: 250VCA,400VCA,525VCA,690VCA,750VCA,1050VAC.

Rated output: 1~100kvar

Capacitance tolerance: $-5\sim-10\%$

Tangent of the loss angel: With the power frequency rated voltage, $\text{tg } \delta \leq 0.1\%$ at 20°C .

Withstand voltage: Between terminals 2.15 times rated voltage for 10 seconds,between terminals and container 3kVAC for 10seconds.

Max permissible over-voltage:110% rated voltage.

Max permissible over-current:130% rated current.

Self sustained discharge ability: Give 2 U_n DC voltage to capacitor,the residual voltage reduced to 75V or lower within 3 minutes after power off.

Applicable standard: GB 12747-2004/IEC60831-1996

Power Capacitor BSMJ

■ Main Specification&Overall Dimension

Phase option: "-1" means single phase; "-3" means three phases.

Model BSMJ	Rated voltage kV	Rated output kvar	Total capacitance μ F	Rated currentt A	Overall dimension LXWXH(mm)
0.25-3-1	0.25	3	153	12.0	160x56x140
0.25-5-1	0.25	5	245	20.0	160x56x220
0.25-7.5-1	0.25	7.5	382	30.0	160x56x220
0.25-10-1	0.25	10	509	40.0	160x70x220
0.25-15-1	0.25	15	764	60.0	160x70x250
0.4-2-3	0.4	2	39	2.9	160x56x115
0.4-4-3	0.4	4	79	5.8	160x56x115
0.4-6-3	0.4	6	118	8.7	160x56x115
0.4-8-3	0.4	8	158	11.5	160x56x135
0.4-10-3	0.4	10	198	14.4	160x56x190
0.4-12-3	0.4	12	238	17.3	160x56x190
0.4-14-3	0.4	14	278	20.2	160x56x190
0.4-15-3	0.4	15	298	21.7	160x56x210
0.4-16-3	0.4	16	318	23.1	160x56x210
0.4-18-3	0.4	18	358	26.0	180x56x250
0.4-20-3	0.4	20	398	28.9	180x56x250
0.4-25-3	0.4	25	498	36.1	180x70x220
0.4-30-3	0.4	30	597	43.3	180x70x260
0.4-40-3	0.4	40	796	57.7	180x70x320
0.4-50-3	0.4	50	995	72.2	180x70x380
0.42-10-3	0.42	10	180.5	13.7	160x56x190
0.42-12-3	0.42	12	216.5	16.5	160x56x190
0.42-14-3	0.42	14	252.6	19.3	160x56x210
0.42-15-3	0.42	15	270.7	20.6	160x56x210
0.42-16-3	0.42	16	288.7	22.0	160x56x210
0.42-18-3	0.42	18	324.8	24.7	180x56x250
0.42-20-3	0.42	20	360.9	27.5	180x56x250
0.42-25-3	0.42	25	451.1	34.4	180x70x220
0.42-30-3	0.42	30	541.3	41.2	180x70x260
0.42-40-3	0.42	40	721.8	55.0	180x70x320
0.42-50-3	0.42	50	902.2	68.7	180x70x380

Model BSMJ	Rated voltage kV	Rated output kvar	Total capacitance μ F	Rated currentt A	Overall dimension LXWXH(mm)
0.45-10-3	0.45	10	157.3	12.8	160x56x190
0.45-12-3	0.45	12	188.7	15.4	160x56x190
0.45-14-3	0.45	14	220.2	18.0	160x56x210
0.45-15-3	0.45	15	236.0	19.2	160x56x210
0.45-16-3	0.45	16	251.6	20.5	160x56x210
0.45-20-3	0.45	20	314.5	25.7	180x56x250
0.45-30-3	0.45	30	471.6	38.5	180x70x260
0.45-40-3	0.45	40	628.8	51.3	180x70x320
0.45-50-3	0.45	50	786.0	64.2	180x70x380
0.525-10-3	0.525	10	115.5	11.0	160x56x190
0.525-12-3	0.525	12	138.7	13.2	160x56x190
0.525-14-3	0.525	14	161.8	15.4	160x56x210
0.525-15-3	0.525	15	173.3	16.5	160x56x210
0.525-16-3	0.525	16	184.9	17.6	160x56x210
0.525-20-3	0.525	20	231.1	22.0	180x56x250
0.525-30-3	0.525	30	346.5	33.0	180x70x260
0.525-40-3	0.525	40	426.0	44.0	180x70x320
0.525-50-3	0.525	50	577.4	55.0	180x70x380
0.69-10-3	0.69	10	66.9	8.4	160x56x190
0.69-12-3	0.69	12	80.3	10.0	160x56x190
0.69-14-3	0.69	14	93.6	11.7	160x56x210
0.69-15-3	0.69	15	100.3	12.6	160x56x210
0.69-16-3	0.69	16	107.0	13.4	160x56x210
0.69-20-3	0.69	20	133.8	16.7	160x56x250
0.69-30-3	0.69	30	200.6	25.1	180x70x260
0.69-40-3	0.69	40	267.4	33.5	180x70x320
0.69-50-3	0.69	50	334.3	41.8	180x70x320

Three-phase Cylindrical Power Capacitor BGMJ

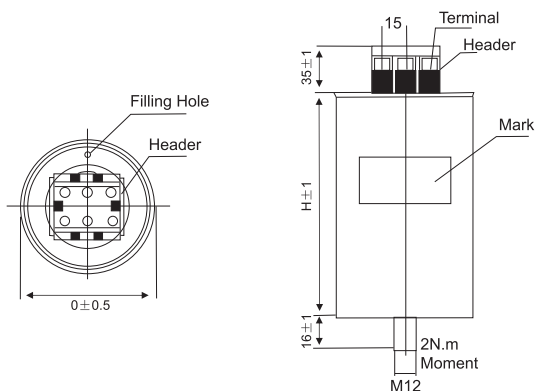


■ Main characters

- 1、High Reliability, the product can endure electric surge strike more than 300In.
- 2、High Security, the products have excellently self-healing, aluminum case never rust, the terminal of capacitor permit touch by everyone, Safety and reliability, and cover can abruption the pole of capacitor when it breaks, and explosion-proof construction increases safety of product.
- 3、Built - out discharge resister can assure residual voltage in terminals lower down under 50V in 3 minutes after the capacitor stops working, and assure capacitor release from transmission-line system of electric power.
- 4、Small volume and light weight, only under 2/3 of the old one. It can be easy to install.

■ Main Technical Indexes

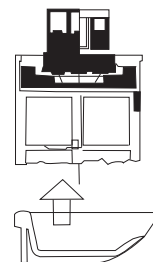
- 1、Standard reference: GB12747-2004、IEC60831、UL810-95
- 2、Using Condition: $-25^{\circ}\text{C}/+50^{\circ}\text{C}$ Humidity $\leq 90^{\circ}\text{C}$ RH Altitude $\leq 2000\text{m}$
- 3、Over-voltage Permitted: $1.0U_n$ 、 $1.1U_n 8\text{h/d}$ 、 $1.3U_n 1\text{min}$
- 4、Over-Current Permitted: $1.3I_n$
- 5、Impact Current: $\leq 300I_n$
- 6、Allowable Offset on Reactive-load Power: $-5\sim+10\%$
- 7、Loss Angle TanGent(Power Frequency Rated Voltage): $\text{tg } \delta \leq 0.0015$
- 8、Dielectric Loss: $\leq 0.25\text{W/kvar}$
- 9、Testing Voltage: Between Poles $2.15 U_n 10\text{S}$ Between and Housing $3000\text{VAC } 60\text{S}$



Before snap electro pole



After snap electro pole



Flameproof sketch drawing

Three-phase Cylindrical Power Capacitor BGMJ

■ Main Specification&Overall Dimension

Rated Voltage VAC	Rated Output kvar	Rated Capacitance μ F	Rated Current A	Connection Mode	Dimensions $\phi \times H$ (mm)
230	3.0	180.5	7.5	$\triangle$	ϕ 65x180
	4.0	240.7	10.0	$\triangle$	ϕ 76x180
	5.0	300.9	12.5	$\triangle$	ϕ 76x180
	6.0	361.0	15.1	$\triangle$	ϕ 76x240
	7.5	451.3	18.8	$\triangle$	ϕ 76x240
	10.0	601.7	25.1	$\triangle$	ϕ 86x240
	12.0	722.1	30.1	$\triangle$	ϕ 96x240
	14.0	842.4	35.1	$\triangle$	ϕ 106x240
	15.0	902.6	37.6	$\triangle$	ϕ 106x240
	16.0	962.8	40.1	$\triangle$	ϕ 106x240
	18.0	1083.1	45.2	$\triangle$	ϕ 116x240
	20.0	1203.4	50.2	$\triangle$	ϕ 116x240
400	25.0	1504.3	62.7	$\triangle$	ϕ 116x280
	3.0	59.7	4.3	$\triangle$	ϕ 65x140
	4.0	79.6	5.8	$\triangle$	ϕ 65x180
	5.0	99.5	7.2	$\triangle$	ϕ 65x180
	6.0	119.4	8.7	$\triangle$	ϕ 65x180
	7.5	149.2	10.8	$\triangle$	ϕ 65x180
	10.0	198.9	14.4	$\triangle$	ϕ 65x240
	12.0	238.7	17.3	$\triangle$	ϕ 76x240
	14.0	278.5	20.2	$\triangle$	ϕ 76x240
	15.0	298.4	21.6	$\triangle$	ϕ 76x240
	16.0	318.3	23.1	$\triangle$	ϕ 76x240
	18.0	358.1	26.0	$\triangle$	ϕ 86x240
280	20.0	397.9	28.9	$\triangle$	ϕ 86x240
	25.0	497.4	36.1	$\triangle$	ϕ 96x240
	30.0	596.8	43.3	$\triangle$	ϕ 106x240
	3.0	121.8	6.2	$\triangle$	ϕ 65x180
	4.0	162.4	8.2	$\triangle$	ϕ 65x180
	5.0	203.0	10.3	$\triangle$	ϕ 65x180
	6.0	243.6	12.4	$\triangle$	ϕ 76x240
	7.5	304.5	15.5	$\triangle$	ϕ 76x240
	10.0	406.0	20.6	$\triangle$	ϕ 76x240
	12.0	487.2	24.7	$\triangle$	ϕ 86x240
	14.0	568.4	28.9	$\triangle$	ϕ 86x240
	15.0	609.0	30.9	$\triangle$	ϕ 86x240
415	16.0	649.6	33.0	$\triangle$	ϕ 96x240
	18.0	730.8	37.1	$\triangle$	ϕ 96x240
	20.0	812.0	41.2	$\triangle$	ϕ 106x240
	25.0	1015.0	51.5	$\triangle$	ϕ 96x280
	3.0	55.4	4.2	$\triangle$	ϕ 65x140
	4.0	73.9	5.6	$\triangle$	ϕ 65x180
	5.0	92.4	7.0	$\triangle$	ϕ 65x180
	6.0	110.9	8.3	$\triangle$	ϕ 65x180
	7.5	138.6	10.4	$\triangle$	ϕ 65x180
	10.0	184.8	13.9	$\triangle$	ϕ 76x180
	12.0	221.8	16.7	$\triangle$	ϕ 65x240
	14.0	258.8	19.5	$\triangle$	ϕ 76x240
450	15.0	277.2	20.9	$\triangle$	ϕ 76x240
	16.0	295.7	22.2	$\triangle$	ϕ 76x240
	18.0	332.7	25.0	$\triangle$	ϕ 86x240
	20.0	369.6	27.8	$\triangle$	ϕ 86x240
	25.0	462.1	34.8	$\triangle$	ϕ 96x240
	30.0	554.5	41.7	$\triangle$	ϕ 96x240
525	3.0	47.2	3.8	$\triangle$	ϕ 65x140
	4.0	62.9	5.1	$\triangle$	ϕ 65x180
	5.0	78.9	6.4	$\triangle$	ϕ 65x180
	6.0	94.3	7.7	$\triangle$	ϕ 65x180
	7.5	117.9	9.6	$\triangle$	ϕ 76x240
	10.0	157.2	12.8	$\triangle$	ϕ 76x240
	12.0	188.6	15.4	$\triangle$	ϕ 76x240
	14.0	220.1	18.0	$\triangle$	ϕ 76x240
	15.0	235.8	19.2	$\triangle$	ϕ 76x240
	16.0	251.5	20.5	$\triangle$	ϕ 86x240
	18.0	282.9	23.1	$\triangle$	ϕ 86x240
	20.0	314.4	25.6	$\triangle$	ϕ 86x240
690	25.0	393.0	32.1	$\triangle$	ϕ 96x240
	30.0	471.6	38.5	$\triangle$	ϕ 106x240
	3.0	34.6	3.3	$\triangle$	ϕ 65x140
	4.0	46.2	4.4	$\triangle$	ϕ 65x180
	5.0	57.7	5.5	$\triangle$	ϕ 65x180
	6.0	69.3	6.6	$\triangle$	ϕ 65x180
	7.5	86.6	8.2	$\triangle$	ϕ 76x180
	10.0	115.5	11.0	$\triangle$	ϕ 76x240
	12.0	138.6	13.2	$\triangle$	ϕ 76x240
	14.0	161.7	15.4	$\triangle$	ϕ 76x240
	15.0	173.2	16.5	$\triangle$	ϕ 76x240
	16.0	184.8	17.6	$\triangle$	ϕ 86x240
690	18.0	207.9	19.8	$\triangle$	ϕ 86x240
	20.0	231.0	22.0	$\triangle$	ϕ 86x240
	25.0	288.7	27.5	$\triangle$	ϕ 96x240
	30.0	346.5	33.0	$\triangle$	ϕ 106x240
	3.0	20.1	2.5	Y	ϕ 65x180
	4.0	26.7	3.3	Y	ϕ 65x180
	5.0	33.4	4.2	Y	ϕ 76x180
	6.0	40.1	5.0	Y	ϕ 76x180
	7.5	50.1	6.3	Y	ϕ 76x240
	10.0	66.9	8.4	Y	ϕ 76x240
	12.0	80.2	10.0	Y	ϕ 86x240
	14.0	93.6	11.7	Y	ϕ 86x240
690	15.0	100.3	12.5	Y	ϕ 86x240
	16.0	107.0	13.4	Y	ϕ 96x240
	18.0	120.3	15.1	Y	ϕ 96x240
	20.0	133.7	16.7	Y	ϕ 106x240
	25.0	167.1	20.9	Y	ϕ 116x240

MSQ RCT Current Transformer

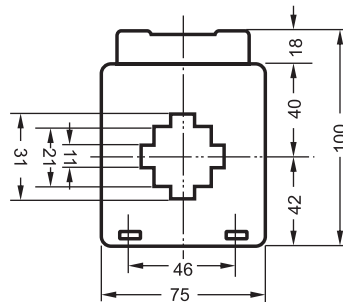
■ Application

MSQ current transformer transforms larger alternating current to a proportional secondary current. Accuracy class 1, together with the large power reserves and a high overload capability make the MSQ an ideal transformer for general usage. It can be used in the AC circuit with the rated voltage value below 660V and the frequency of 50-60Hz.

The product conforms to IEC 185.



MSQ-30

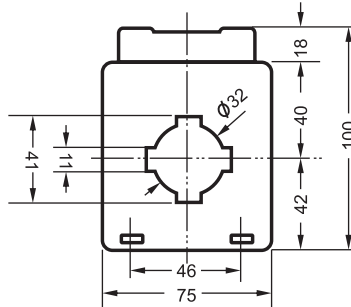


MSQ-30

Measuring range	Through Times
30~50A/5	2T
60A/5	1T
100A/5	1T
150A/5	1T
200A/5	1T
250A/5	1T
300A/5	1T



MSQ-40

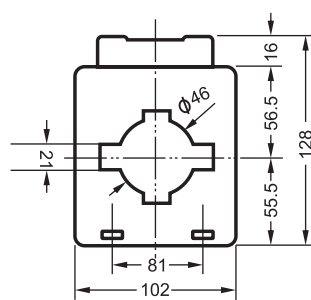


MSQ-40

Measuring range
200A/5
250A/5
300A/5
400A/5
500A/5
600A/5

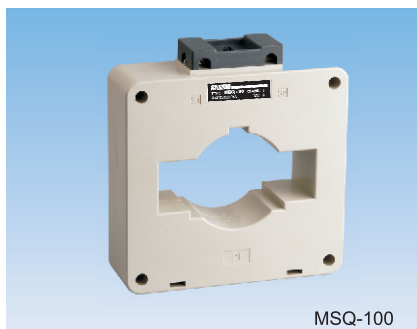


MSQ-60

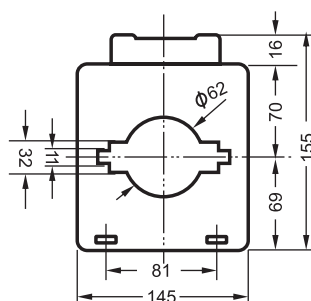


MSQ-60

Measuring range
400A/5
500A/5
600A/5
800A/5
1000A/5
1200A/5



MSQ-100



MSQ-100

Measuring range
1000A/5
1200A/5
1500A/5
1600A/5
2000A/5
2500A/5
3000A/5

NSQ RCT Current Transformer



Unit:mm

Model	NSQ-30	NSQ-35	NSQ-40	NSQ-55
Ratio	30/5A TO 200/5A	100/5A TO 300/5A	200/5A TO 600/5A	400/5A TO 1000/5A
Window dimension	φ 30MM	φ 35MM	φ 40MM	φ 55MM

Rated Load:2.5VA 5VA 10VA 15VA

Accuracy: Class 0.5 1.0

Maximun Voltage:600V

Frequency: 50/60Hz

Measuring range

RCT-32	30A/5 40A/5 50A/5 60A/5 80A/5 100A/5 120A/5 150A/5 200A/5 250A/5 300A/5
RCT-60	300A/5 400A/5 500A/5 600A/5 800A/5 1000A/5 1200A/5
RCT-90	1000A/5 1200A/5 1500A/5 1600A/5 2000A/5
RCT-110	2000A/5 2500A/5 3000A/5 4000A/5

Unit:mm

Model	RCT-32	RCT-60	RCT-90	RCT-110
A	93	93	93	102
B	78	78	78	86
C	32	60	90	111
D	78	104	136	157
E	2	2	2	2
F	41	41	41	52
G	9	9	9	9

