

浙江三爱互感器有限公司

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代理商：



SANAI®

中国最具发展潜力制造企业

互感器产品大全

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浙江三爱互感器有限公司

ZHEJIANG SANAI TRANSFORMER CO.,LTD.



即便是世界上最富有想象力的预言家，也未必想到20年的时间，在中国发生的那一场改革会让960万平方公里土地发生如此巨大的变化；即使是最有前瞻性的经济学家，也难以预测20年时间，一个名不见经传的年轻人，带领着一批电气爱好者，创造了一个遍及中国的互感器圣殿。

这是一个奇迹般的时代，奇迹般的中国！在这里，世界因想象而无限宽广；努力，让一切皆有可能。

所以，这20年便属于中国，这20年便属于中国土地上诸多和三爱一样不断奋斗，不断前进着的人们！

这20年值得我们铭记、值得我们用最大的热忱和最美的鲜花来赞颂；我们感谢这个时代，是她给予我们创造的空间和机会；我们感谢中国，是她赋予我们前进的方向和生命的主题；我们也将感谢那些用智慧和汗水谱写三爱辉煌的人们……

这20年便是一座桥梁，记载历史，传承过去与未来；
这20年也是一座丰碑，铭刻记忆；

铭刻那些奋斗不息，不怕艰难的三爱功臣！



20年似乎是一段漫长的历史，
但比起世界上许多“百年品牌”，我们才算是起步，
因此，在三爱20年间，
我们不仅仅是欣喜，更要认真反思，
我们没有理由骄傲，更没有理由沉迷过去，
我们要高瞻远瞩，放眼未来，
我们要励精图治，开创下一个10年、20年。

而这一切，我们刚刚开始，
我们期待，下一个20年三爱的事业更加根深叶茂。

A large, vibrant red flag is shown waving against a clear blue sky with scattered white clouds. The flag is attached to a silver flagpole. In the center of the flag, the brand name 'SANAI' is written in large, bold, yellow capital letters, followed by the Chinese characters '三爱' (Sān Ài) in a similar yellow font. A small registered trademark symbol (®) is positioned above the 'i' in 'SANAI' and above the first character '三'.

SANAI[®]

SINCE 1986

当我们站在20年时间的终点追忆过去，往事与瓯江同在！滚滚江水见证了我们的成功与辉煌；澎湃浪涛铭刻了激情与勇敢历程！

当我们站在20年的崭新高度眺望明天，未来与雁荡同在！巍巍青山启示着我们攀登更高的顶点；连绵峰峦蕴藏着我们对下一段征途的期待；

我们期待下一个20年！





SANAI®

20年前，
当三爱不经意间出现的时候，
我们没有想过会走得这么远，
我们想的只是如何在一个逼仄的环境中做出更好的产品。
我们在逆境中奋起，在磨难中前行。
惊回首，
已是20过春秋！

饮水思源，没有党的改革开放政策，
就没有中国的蓬勃发展，也就没有三爱的今天，
我们不求有多么大的荣誉，
我们只想怎样把互感产业做久、做强！

關於我們...

About us

浙江三爱互感器有限公司(原：三友互感器有限公司)创建于1986年，创业十几年来，公司先后与南京、苏州等地建立了一条完格的生产、科研、销售、服务体系，是温州市重点骨干企业，连续八年荣获金融“AAA”级企业、2003-2014年度中国“标准、计量、质量”技术完善知名企业称号，2000年通过了ISO9001国际质量体系认证，并获“采用国际标准合格证书”称号。

三爱互感器公司是高、低压互感器的专业生产厂家，具有工艺检测设备精良、齐全。HEW52全自动互感器检测台、HEWA-99智能互感器校验仪、JF-8601型局放仪、M-2 000II抗干扰型介质损耗测试仪、互感器全真空干燥、浇注，目前都属国内先进设备。KC-1430型全真空浇注设备，目前达到世界先进水平。公司原有厂房12000m²，2013年新建厂房33000m²。现有员工400余人，中级职称的技术人员30人，高级工程师5人，由此为新产品的开发、设计及产品质量提供了保证。

浙江三爱互感器有限公司，专业生产电流、电压互感器等70余种型号，1000余种规格。其中，0.2级高压计量箱九九年五月在武汉高压计量所通过型式试验。产品电压等级有0.38KV至35KV，准确等级有0.2S、0.2、0.5、10P级，其设计生产均按国家标准和IEC标准要求。产品在国内外享有一定的声誉，畅销全国各省、市、自治区，部分产品出口东南亚各国。产品广泛用于在各电厂、发电站、工厂配电板、开关柜等电器控制设备上。另外，我公司还可根据客户要求设计、制造特殊规格用途的互感器。

公司以“质量第一，信誉至上”为宗旨，真诚地为国内外新老客户提供优质的产品和售后服务，欢迎惠顾。



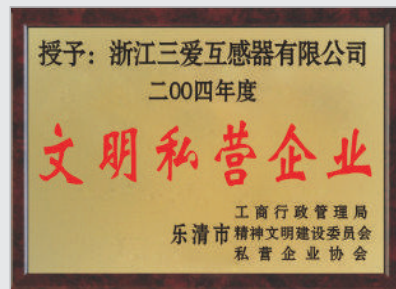
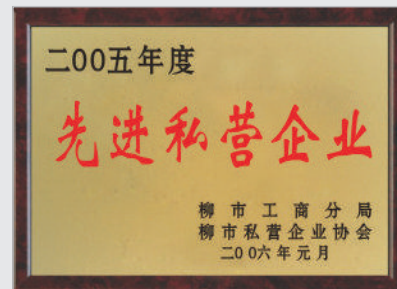
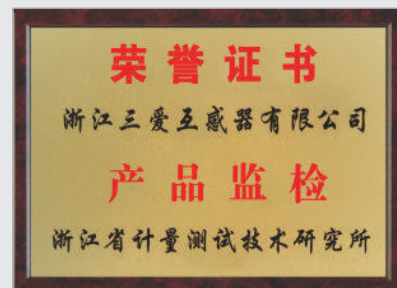
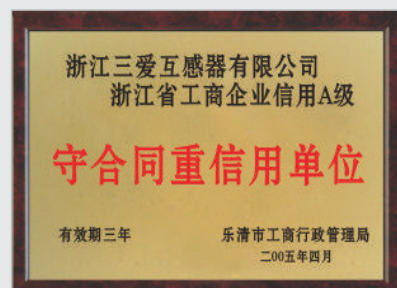
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企业荣誉

荣誉，凝结的是用心，表达的是责任。历经20几个春秋的发展，三爱接受权威和市场的双重检阅，品牌影响力和社会美誉度大大提升，“三爱模式”已成为行业热论。未来之路，三爱必将勇承大任，贯以品质、创新、责任、始终致力于能源科技的开发和应用。

Honor, condensation is the heart, the expression is the responsibility. After 20 years of development, double review three love to accept authority and market, brand influence and social reputation greatly enhanced, "three love mode" has become a hot industry. The road of the future, three love will have the courage to take responsibility, consistent with the development and application of quality, innovation, responsibility, has always been committed to energy technology.

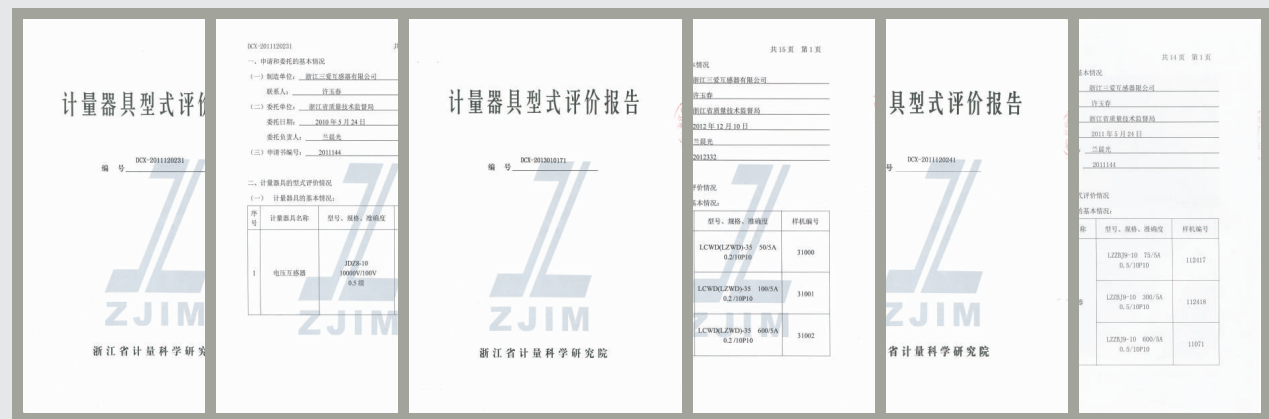
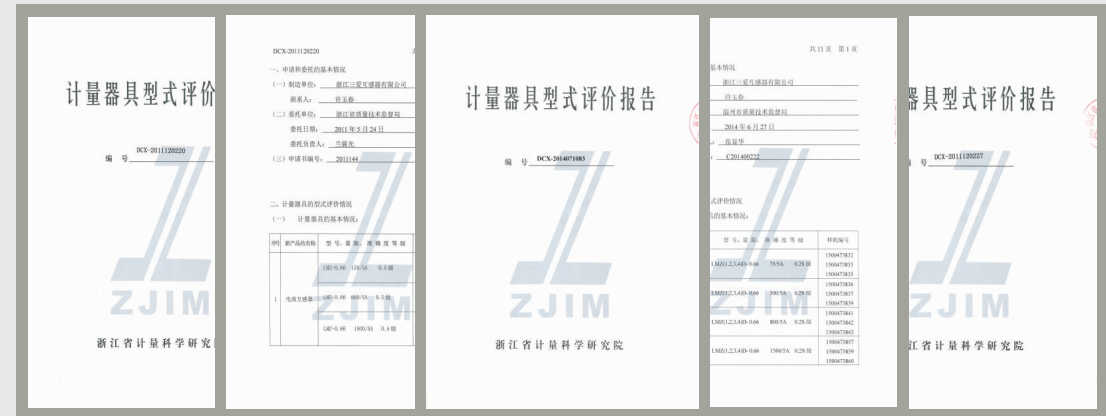
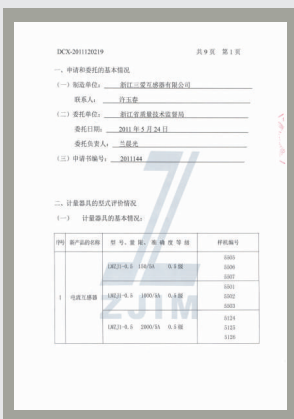
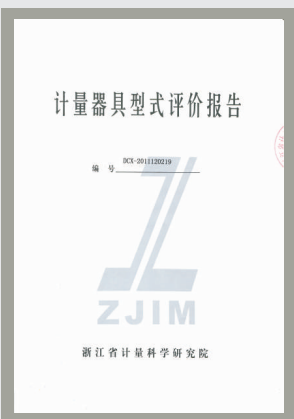
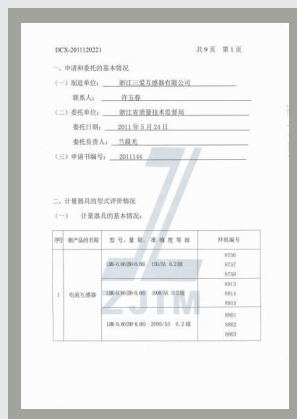
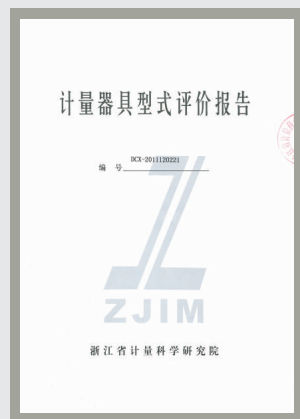
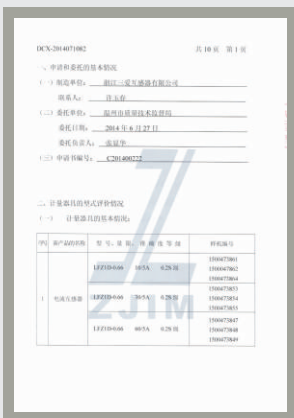
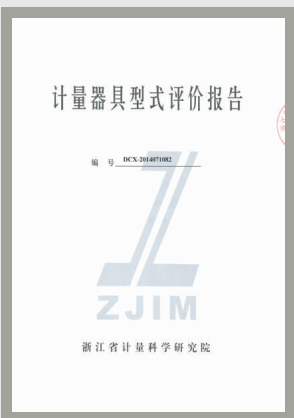
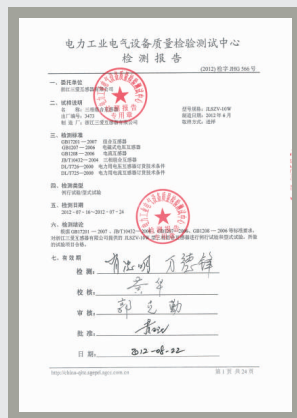


努力依靠科技力量，紧随世界一流水平，不断研发高新技术产品，做行业先锋！
Relying on scientific and technological strength followed by a world-class level, and continuously

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荣誉，凝结的是用心，表达的是责任。历经20几个春秋的发展，三爱接受权威和市场的双重检阅，品牌影响力和社会美誉度大大提升，“三爱模式”已成为行业热论。未来之路，三爱必将勇承大任，贯以品质、创新、责任、始终致力于能源科技的开发和应用。



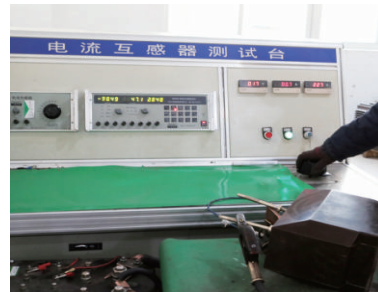
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Advanced design

Technology Leadership

设计先进
技术领先

工欲善其事，必先利其器引进国际先进加工，检测设备，倾力打造先进的PCB生产车间，硬件环境不断改善，严格的设备管理制度保证了设备始终处于完好及高效状态，技术与设备的精妙结合巧夺天工地缔造了产品质量最坚定的基础。



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Packaging is key solar cell production steps, there is no good Packaging technology, even the best batteries are not good component production board. Battery package not only makes the battery life is guaranteed, and



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LZZBJ4-35 型支柱式全封闭浇注绝缘电流互感器 LZZBJ4-35 Post type fully enclosed casting insulation current transformer	206-207

Electricity measuring tank combined transformer



电力计量箱 组合互感器



执行标准

Carry out in accordance with standards

GB20840.1-2010及GB20840.3-2013 《电压互感器》
GB20840.1-2010 and GB20840.3-2013 Voltage transformer
GB20840.1-2010及GB20840.2-2014 《电流互感器》
GB20840.1-2010andGB20840.2-2014 Current transformer
GB17201-2007 《组合互感器》
GB17201-2007 Combined transformer
IEC185 《电流互感器》
IEC185 Current transformer
IEC186 《电压互感器》
IEC186 Voltage transformer



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JLSZW□-6, 10型户外高压电力计量箱 JLSZW□-6, 10 Type outdoor HV electric measuring tank

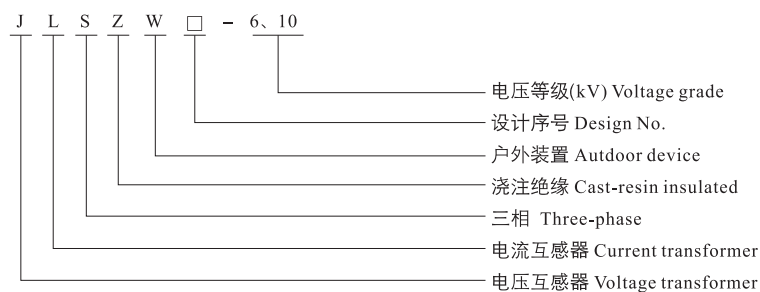


概述 Summary

JLSZW□-6, 10型三相户外干式高压电力计量箱(组合互感器), 由两台或三台单相电压互感器(PT)及电流互感器(CT)组成, PT、CT均为电磁式, 本型互感器适用于额定频率50Hz三相交流、额定电压为6kV、10kV电网上用作电能计量, 并安装在供电变压器的高压侧, 仪表箱内装三相有功电度表及无功电度表, 是用来直接测量高压线路中有功和无功电能电器设备。

JLSZW□-6, 10 three-phase outdoor dry type high-voltage electric measuring tank(combined transformer) is made up of two or three single-phase voltage transformers (PT) and current transformers(CT). PT and CT are both electromagnetic type. This type of transformer is applicable to 50Hz (rated frequency), three-phase AC, 6kV, 10kV (rated voltage) electric net for power measuring. It is fixed on the high-voltage side of power supply transformer. There is one three-phase active watt-hour meter and one reactive watt-hour meter installed inside the measuring box, which are used to directly measure active and reactive electric appliance in high-voltage circuits.

型号含义 Type designation



技术参数 Technical parameter

1、额定电压：10kV、6kV；

Rated voltage：10kV、6kV

2、准确等级：0.5和0.2级 0.5S和0.2S级；

Accuracy class: 0.5 and 0.2 class 0.5S and 0.2S class



外形及安装尺寸 Elementary diagram

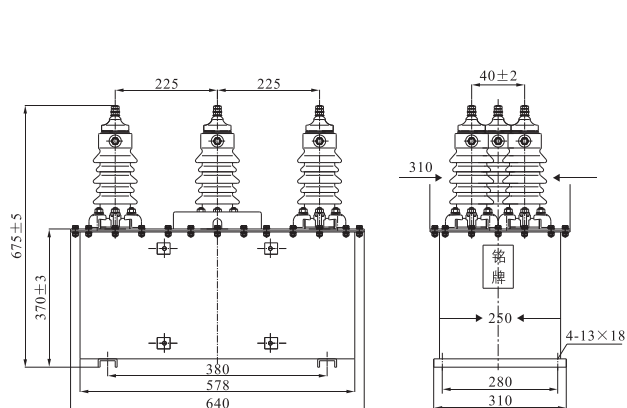


图1: 10kV 三相三线干式高压电力计量箱
(三相二元件) 外形及安装尺寸图
Diagram1: 10kv three-phase three-wire dry
high-voltage electric measuring tank
(three-phase two-component) outline and installation dimension

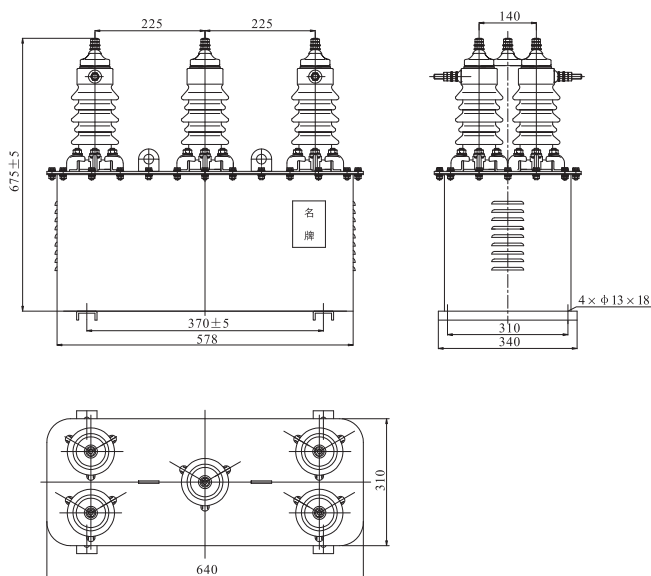
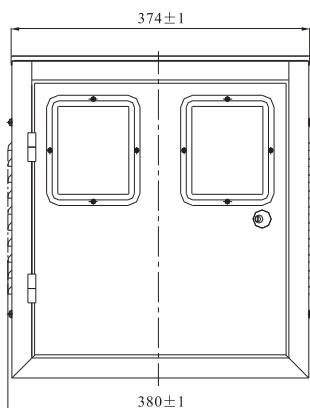
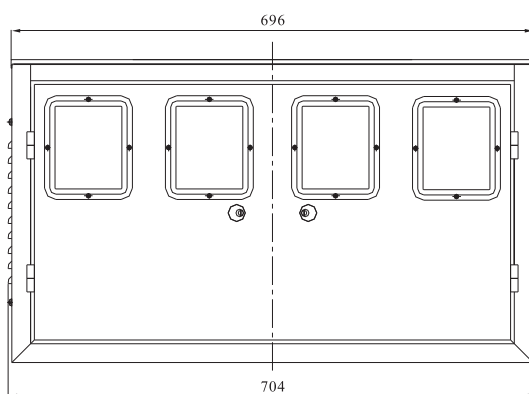


图2: 10kV 三相四线干式高压电力计量箱
(三相三元件) 外形及安装尺寸图
Diagram2: 10kv three-phase four-wire dry
high-voltage electric measuring tank
(three-phase three-component) outline and installation dimension

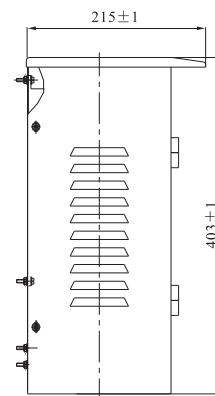
电表箱外形图 Outline diagram of metering tank



单相计量电表箱
Single-phase metering tank



双相计量电表箱
Two-phase metering tank



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JLS-6、10、35 型高压电力计量箱 JLS-6,10,35 Model high-voltage electric measuring tank



概述 Summary

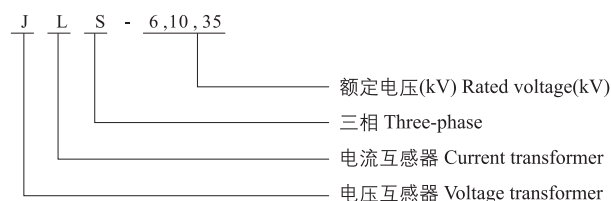
本产品主要由组合互感器和电度表箱两部分组成，组合互感器由两台或三台单相电压互感器和电流互感器组成，用25#变压器油作绝缘介质，一、二次出线端均用瓷套管安装在面板上。电度表箱装在组合互感器侧面，由一只有功电度表和一只无功电度表组成，具有计量精度高、重量轻、安装方便、防窃电等优点。

该型电能计量箱适用于户外额定电压6、10、35kV、额定频率50Hz的三相系统网路上。

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

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

型号含义 Type designation



技术参数 Technical parameter

- 1、产品性能符合GB17201-2007;
- 2、额定电压: 6kV、10kV、35kV;
- 3、准确等级: 0.5和0.2级、0.5S和0.2S级;
- 4、额定变比: 电压比 6000/100 10000/100 35000/100
电流比 5 ~ 300/5(大电流变比可以定制)

1. The product function is in accordance with GB17201-2007;
2. Rated Voltage: 6kV, 10kV, 35kV;
3. Accurate Grade : 0.5 and 0.2 0.5S and 0.2S
4. Rated Ratio: ratio-voltage 6000/100 10000/100 35000/100
ratio-current 5 ~ 300/5 (high ratio-current can made to order)



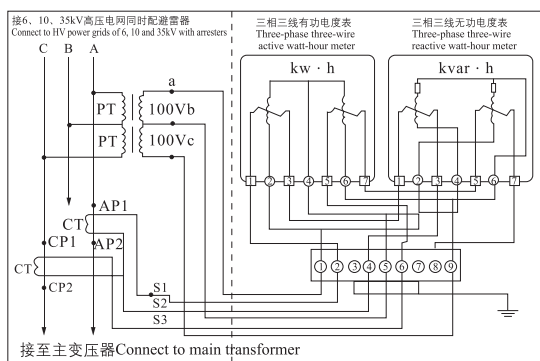
组合互感器技术参数 Technical parameters of combined transformer

型号 Model	额定电压比 Rated voltage Ratio (V)	额定电流比 Rated current Ratio (A)	频率 Frequency (Hz)	电压互感器准确等级及 额定输出(VA) Voltage transformer Accurate grade and Rated output(VA)		电流互感器准确等级及 额定输出(VA) Current transformer Accurate grade and Rated output(VA)		额定绝缘 水平(kV) Rated Insulating Level (kV)	标准代号 Standard Code
				0.2级Class	0.5级Class	0.2级Class	0.5级Class		
JLS-3	3000/100	5-300/5	50	20	25	10	10	3.6/24/75	GB20840.2-2014 GB20840.3-2013 GB17201-2007
	6000/100	5-300/5	50	20	25	10	10	7.2/32/75	
JLS-6	6300/110	5-300/5	50	20	25	10	10	7.2/32/75	
JLS-10	10000/100	5-300/5	50	25	25	10	10	12/42/75	
JLS-35	35000/100	5-300/5	50	50	50	10	10	40.5/95/185	

该型高压电力计量箱分为单变比和双变比两种类型，双变比接线时，大电流比接AP1、AP2与CP1、CP2、小电流比接AP1、AP3与CP1、CP3。原理图如下所示。

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

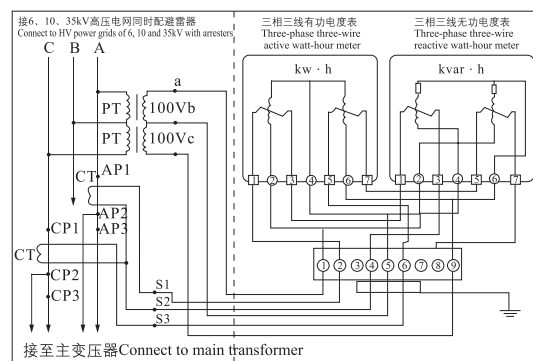
单变比接线图 Single ratio wiring diagram



组合互感器部分
Combined transformer part

电表箱部分
Watt-hour meter box part

双变比接线图 Double ratio wiring diagram



组合互感器部分
Combined transformer part

电表箱部分
Watt-hour meter box part

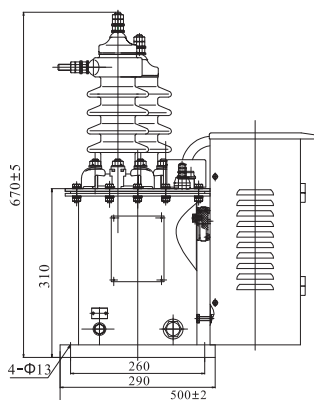
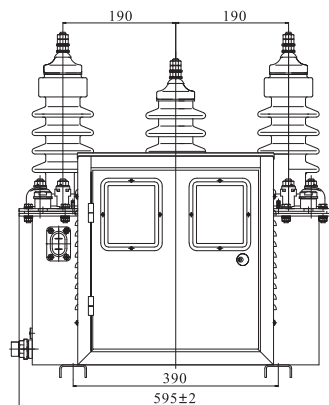


图1 6kV、10kV三相三线油浸式高压电力计量箱(三相二元件)外形及安装尺寸图

Fig.1 : Outline and installing dimension of 6kV, 10kV three-phase three-wire-immersed high-voltage electric measuring tank (three-phase two component)



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电表箱外形图 Outline diagram of electric meter tank

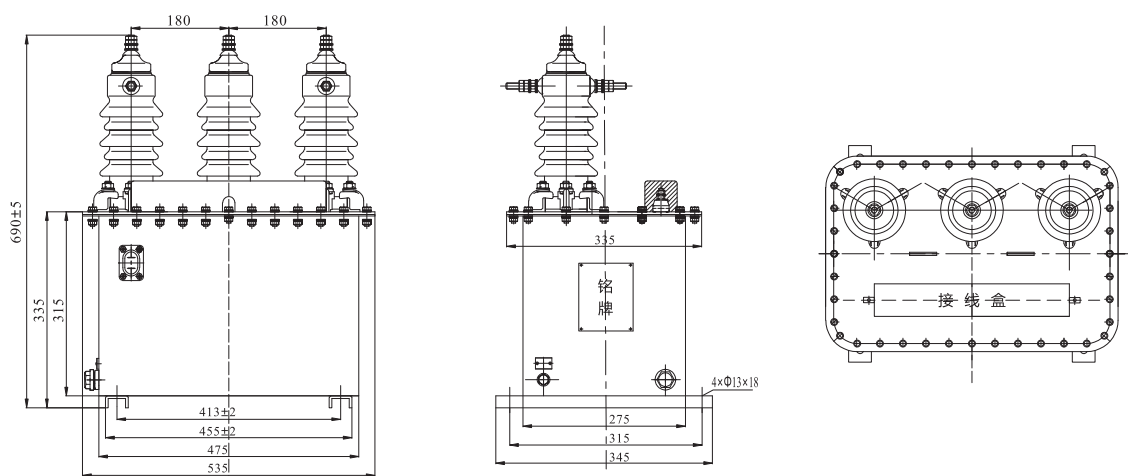


图2 6kV、10kV三相四线油浸式高压电力计量箱(三相三元件) 外形及安装尺寸图

Diagram 2: Outline and installation dimension of 6kV, 10kV three-phase four-wire oil-immersed high-voltage electric measuring tank (three-phase three-component)

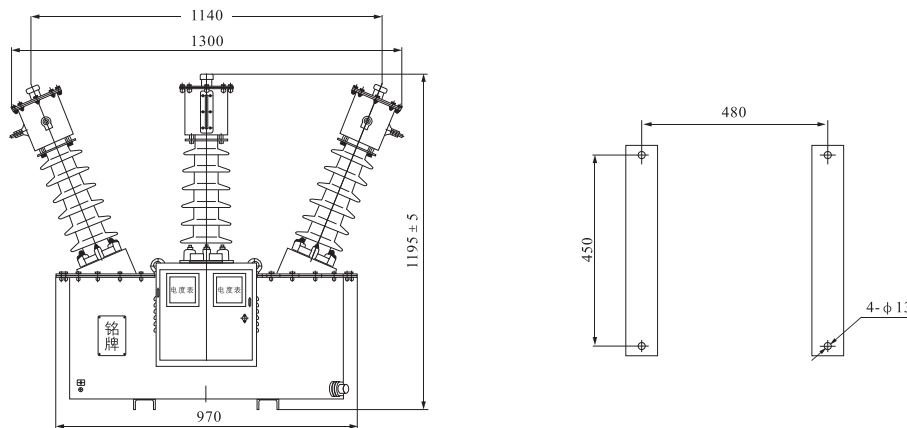


图3 35KV三相三线计量箱(三相二元件) 外形及安装尺寸图

Diagram 3: Outline and installation dimension of 35KV three-phase three-wire measuring tank (three-phase two-component)

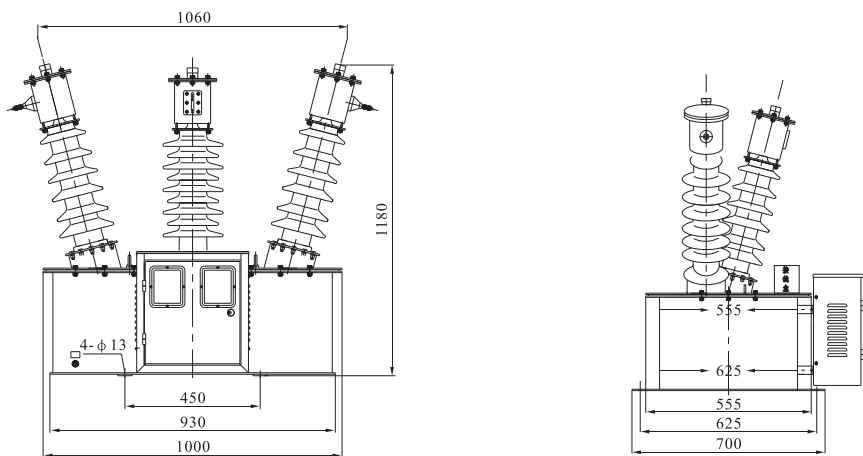


图4 35KV三相四线计量箱(三相三元件) 外形及安装尺寸图

Diagram 4: Outline and installation dimension of 35KV three-phase four-wire measuring tank (three-phase three component)



JLSZ□-6, 10, 35W 户外干式组合互感器 JLSZ□ -6, 10, 35 Outdoor dry-type combined transformer

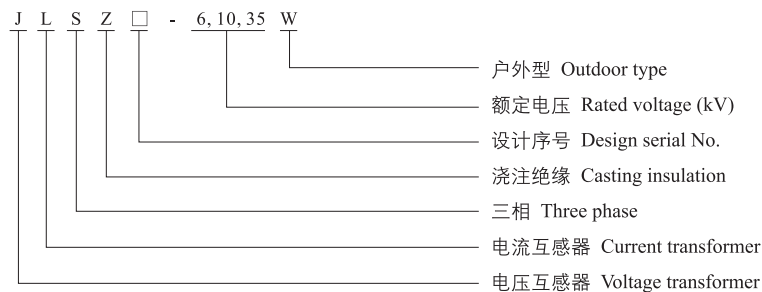


概述 Summary

JLSZ□-6, 10, 35W是电压、电流组合互感器，而组合互感器和计量仪表的成套组合，称为电力计量箱。该产品用于户外额定频率50Hz的三相系统网络上，其初级电压为6、10、35kV，次级电压为100V。初级电流为：5、10、15、20、25、30、40、50、75、100、150、200、250、300、400、500、600A，次级电流为5A。本计量箱具有精度高、重量轻、绝缘可靠，能防偷、防漏，是当前电能管理的理想设备。

JLSZ□-6, 10, 35W is voltage and current combined transformer, and the complete set combination of combined transformer and measuring meter is called electric measuring tank. The product is used in three-phase system network with outdoor rated frequency of 50Hz. Its primary voltage is 10,35kV, secondary voltage is 100V. Primary current is 5,10,15,20,25,30,40,50,75,100,150,200,250,300,400,500,600A, secondary current is 5A. The tank is accurate, light, insulating, reliable, theft-proof and leakage-proof, which is an ideal equipment for present power management.

型号含义 Type designation



主要性能 Main functions

- | | |
|--|--|
| 1、额定电压：分为3×6kV、3×10kV、3×35kV | 1. Rated Voltage: 3×6kV, 3×10kV, 3×35kV |
| 2、额定变比：电压比：6000/100V, 10000/100V, 35000/100V。
电流比：5-600/5A，并分单变比和双变比两种。
双变比计量箱一次接线P1、P2为大电流比。
P1、P3为小电流比。 | 2. Rated Ratio: Rated Ratio-voltage: 6000/100V, 10000/100V, 35000/100V Rated Ratio-current: 5-600/5A, single ratio or double ratio Primary wiring of double measuring tank: P1, P2 are heavy current ratio while P1, P3 are light current ratio. |
| 3、额定容量：PT元件分：15、25、50VA三种。
CT元件分：10、25、30VA三种。 | 3. Rated Capacity: PT components have 15, 25, 50VA three types, CT components have 10, 25, 30VA three types |
| 4、准确等级：0.5级、0.2、0.5S、0.2S级。 | 4. Accurate Grade: 0.5、0.2、0.5S、0.2S |



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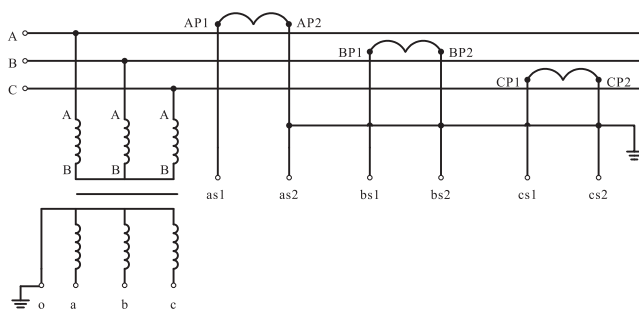
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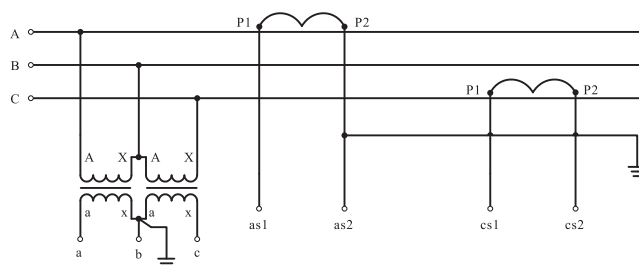
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JLSZ□-6、10、35W接线图 Wiring diagram



三相四线组合互感器接线原理图

Three-phase four-wire combination transformer wiring principle diagram



三相三线组合互感器接线原理图

Three-phase three-wire combined transformer wiring principle diagram

外形及安装尺寸 Outline and installation dimension

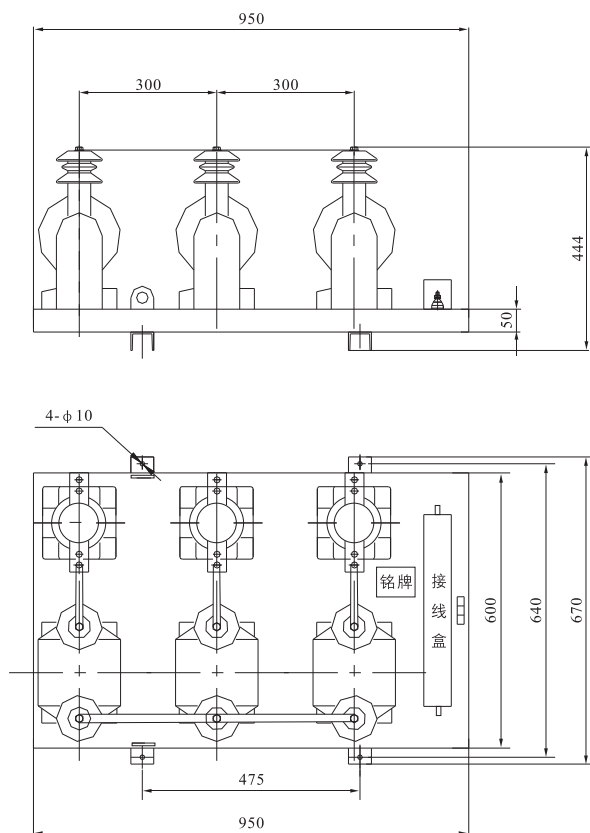


图1 JLSZ1-6、10W Y/Y接线三元件 外形及安装尺寸图
Diagram 1. Outline and installation dimension of JLSZ1-6, 10WY/Y wiring three components.

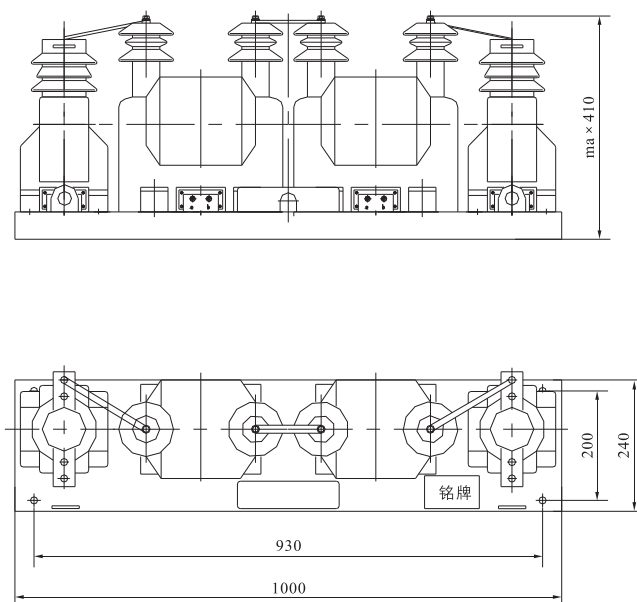


图2 JLSZ2-6、10W V/V接线二元件 外形及安装尺寸图
Diagram2. Outline and installation dimension of JLSZ2-6,10WV/V wiring two components.



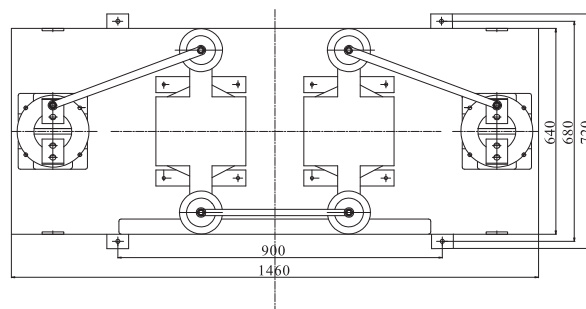
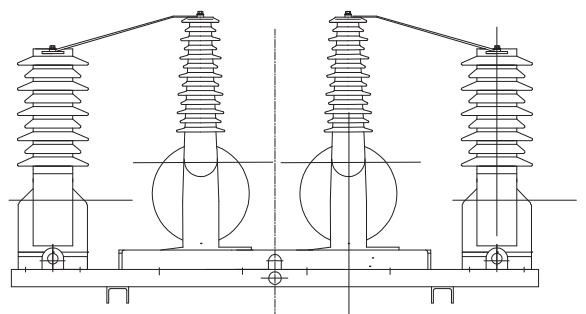


图3 JLSZ-35kV三相三线 外形及安装尺寸图

Fig.3 Outline and installation dimension of JLSZ-35kV three-phase three-wire

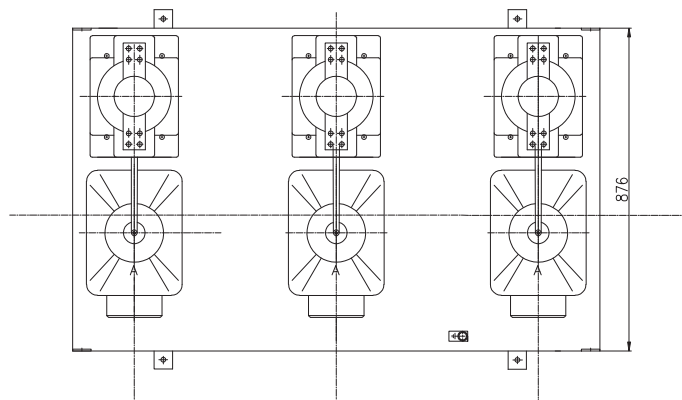
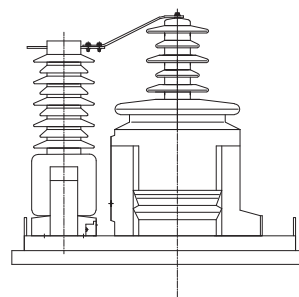
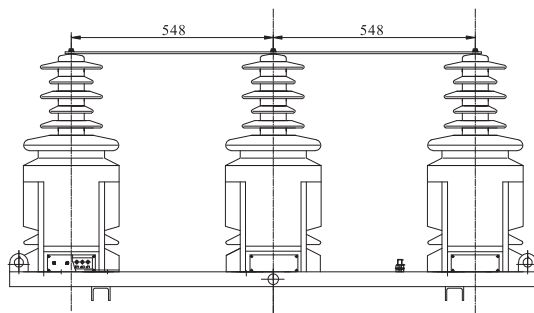


图3 JLSZY-35W三相三元件 外形及安装尺寸图

Fig.3 Outline and installation dimension of JLSZY-35W three-phase three-component



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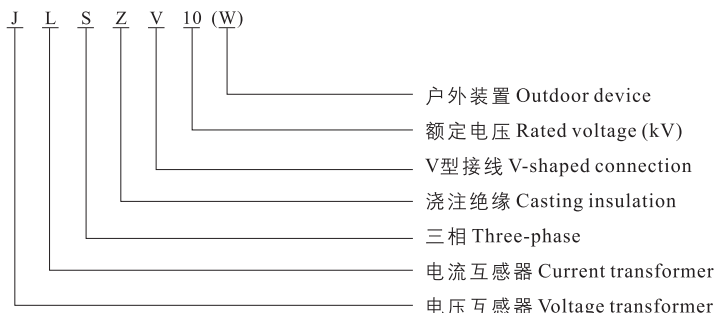
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JLSZV-6, 10kV 干式电力计量箱 JLSZV-6, 10kV Dry type electric measuring tank



型号含义 Type designation



概述 Summary

本型电压、电流组合互感器系供交流50Hz，额定电压10kV三相线路中，供电压、电流和电能测量及继电保护用，适用于农村户外变电站，也可用于工业小型变、配电所。本产品可取代JLSJW-10型油浸式组合互感器。

This voltage and current combined transformer is suitable for voltage, current and energy measurement and relaying protection at the three-phase circuit of AC 50Hz and rated voltage 10kV, it is not only applied to the rural outdoor transformer substations, but also the small-sized industrial transformer substations and distribution substations. This product can fully take the place of JLSJW-10 type oil-immersed combined transformer.

结构简介 Structure

本型互感器为户外环氧树脂(瑞士Ciba CW5837)浇注全密封、支柱式结构。由于采用户外环氧树脂浇注，产品具有耐电弧、耐紫外线、耐老化、寿命等特点。本产品由两台单相全绝缘电压互感器组成“V”形接线，两台电流互感器分别串接在A、C相上，并且电流互感器二次绕组带有抽头可得到不同电流变化。

This type of transformer is designed into the such structure: epoxy-resin (Swiss Ciba CW5837) casting, fully sealed and post type. Due to employing the outdoor epoxy-resin casting, the product is featured with long service life, withstanding the electric arc, ultraviolet ray and aging, etc. This product is combined by two single-phase full-insulation voltage transformers that are formed into “V”-shaped connection and two current transformers that are connected to phases A and C in series. And, the current transformer secondary windings that are equipped with the taps can get the different current ratios.

二次出线端有接线保护罩其下方有出线孔，接线方便、安全可靠并能实现防窃电措施。底座槽钢上有4个安装孔供安装用。

The secondary outlet terminal has a connection guard, this guard has an outlet hole at the bottom, so, it is very convenient to connect the wires, and it is very safe and reliable, realizing the electricity larceny prevention. In addition, the channel of base has four installation holes that are helpful for mounting.

技术数据 Technical data

1、额定绝缘水平：12/42/75kV

Rated insulation level: 12/42/75kV

2、表面爬电比距满足Ⅱ级污秽等级。

The surface creepage distance meets the requirements of II-class pollution

3、本型组合互感器系由单相电压互感器及单相电流互感器组合成三相，电压互感器用V/V-12接线。

This type of combined transformer has three phases that are combined by the single-phase voltage transformer and single-phase current transformer, hereinto, the voltage transformer adopts V/V-12 connection.

4、本型组合互感器满足GB20840.2-2014《电流互感器》，GB20840.3-2013《电压互感器》，GB17201-2007《组合互感器》之要求。

This type of combined transformer reaches such standards as GB20840.2-2014 Current Transformer, GB20840.3-2013 Voltage Transformer and GB17201-2007 Combined Transformer.



5、电压互感器额定变比10000/100，三相额定二次输出0.2级20VA。

The rated transformation ratio of voltage transformer is 10000/100, and the rated secondary output of three phases is class 0.2/20VA.

6、负载功率因数 $\cos\phi=0.8$ (滞后)，电流互感器仪表保安系数 $FS \leq 10$ 。

The load power factor $\cos\phi$ is equal to 0.8 (lag), and the instrument security factor of current transformer FS is equal to 10 or less than.

额定一次电流 Rated Primary Current (A)	额定短时热电流(kA有效值) Rated Short-time Thermal-current (kA virtual value)	额定动稳定电流(kA有效值) Rated Dynamic Stability Current (kA virtual value)	额定二次输出 Rated Secondary Output (VA)	
			0.2S级 0.2S Class	0.2级 0.2 Class
5-10	1.0	2.5	10	15
10-20	1.5	3.75		
15-30	2.4	6.0		
20-40	3.0	7.5		
30-60	4.5	11		
40-75	8.0	20		
50-100	9.0	22.5		
75-150	12	30		
100-200	16	40		
150-300	24	60		
200-400	32	80		
300-600	60	100		

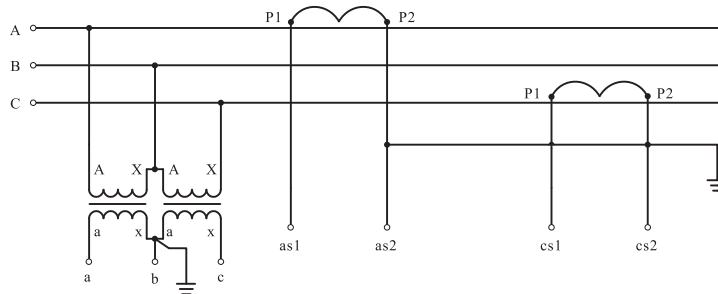
7、环境温度：在30℃~40℃之间，日平均气温不超过30℃；

Environment temperature among 30℃~40℃, every day's average temperature shall not exceed 30℃.

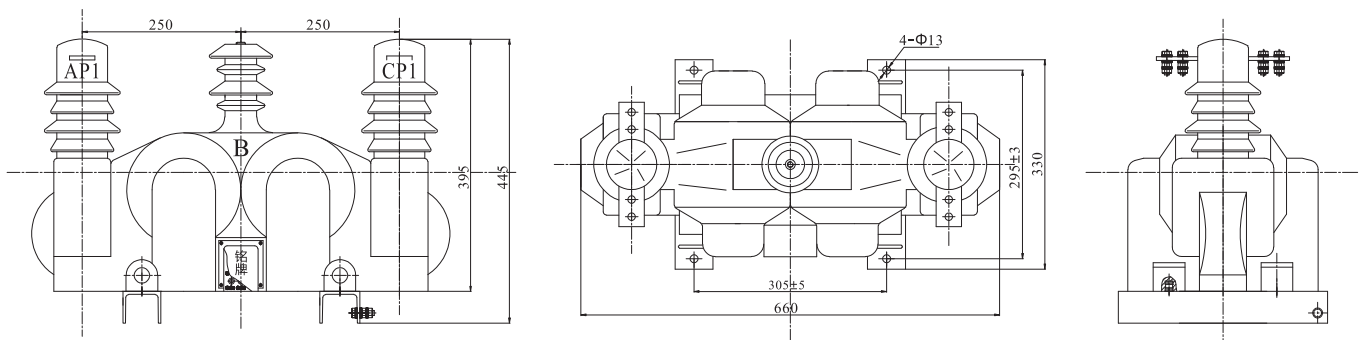
8、海拔高度：不超过1000m。

Altitude: $\leq 1000m$.

JLSZV-10接线图 Wiring diagram

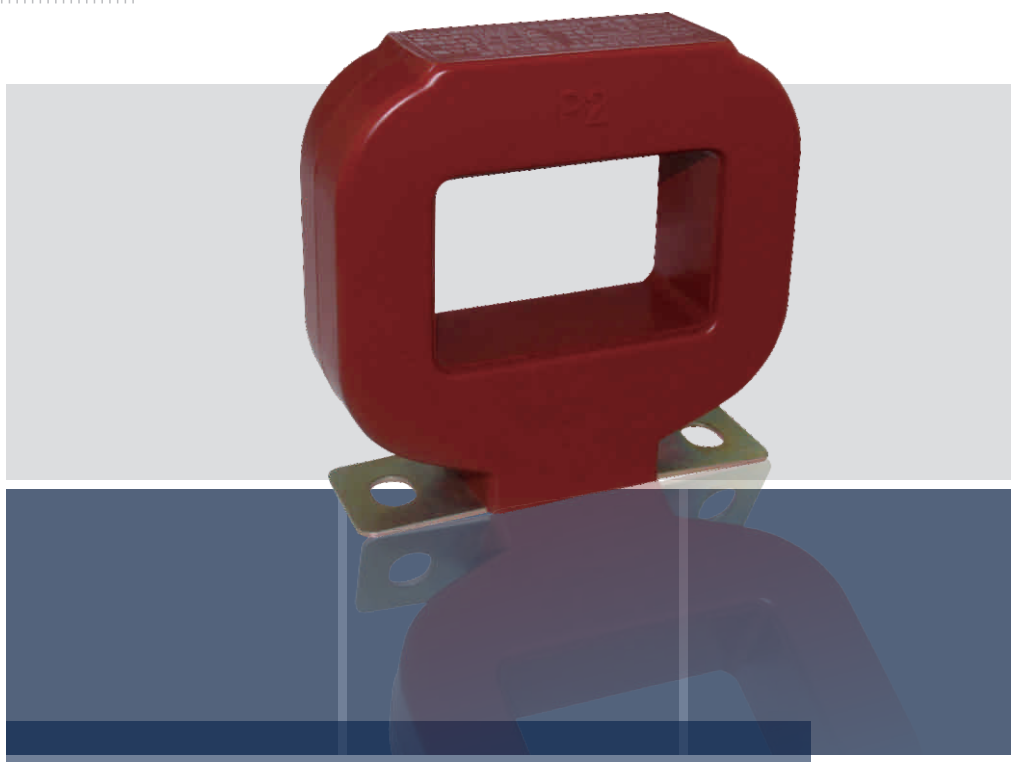


外形及安装尺寸 Outline and installation dimension



Low-voltage transformer

➤ 低压互感器



执行标准

Carry out in accordance with standards

GB20840.2-2014 《电流互感器》

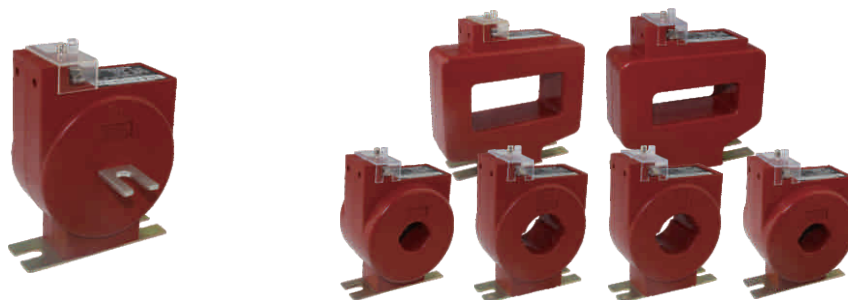
GB20840.2-2014 Current transformer

IEC185 《电流互感器》

IEC185 Current transformer



LFZ1D,LMZ(1,2,3,4)D-0.66 电流互感器 LFZ1D,LMZ(1,2,3,4)D-0.66 Current transformer

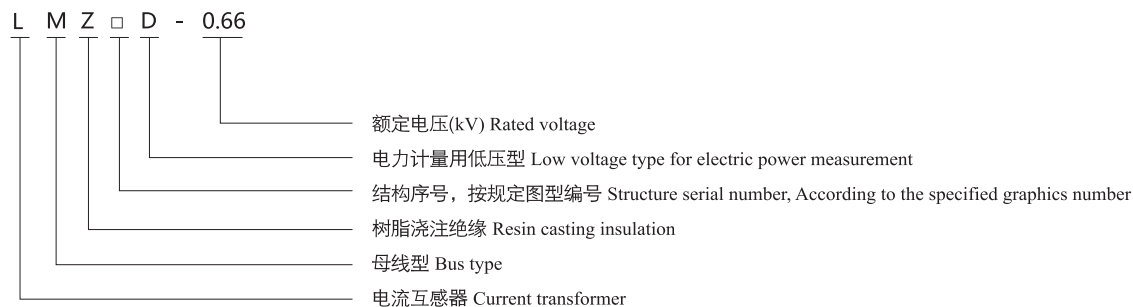


概述 Summary

LFZ1D、LMZ1D、LMZ2D、LMZ3D、LMZ4D系列电流互感器供额定频率为50Hz，额定电压为0.66kV及以下的交流线路中作电流、电能测量或继电保护用。产品符合《GB20840.1-2010及GB20840.2-2014电流互感器国家标准》及《Q/GDW572-2010计量用电流互感器》技术规范。

LFZ1D, LMZ1D, LMZ2D, LMZ3D, LMZ4D series current transformer for 50Hz, rated voltage 0.66kV and below the AC line for electric current, electric energy measurement or relay protection. Products comply with the "GB20840.1-2010 and GB20840.2-2014 current transformer national standards" and "Q/GDW572-2010 measurement with current transformers" technical specifications.

型号含义 Type designation



技术参数 Technical parameter

- 1、准确级：0.2S、0.5S、0.2、0.5；
- 2、额定电压：660V；
- 3、额定一次电流、二次电流、额定负荷及准确级见表一，误差限值见表二；
- 4、绝缘性能：一次绕组对二次绕组及地，二次绕组对地能承受短时工频耐压3kV，1分钟。

1. Accuracy class: 0.2S, 0.5S, 0.2, 0.5;
2. Rated voltage: 660V;
3. Rated primary current, secondary current, rated load and accuracy class see to table 1, and error limit see to table 2;
4. Insulation performance: once the two windings and ground, the two winding to with stand short-time power frequency with stand voltage 3kV, 1 minutes.



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使用条件 Operating conditions

- 1、互感器安装海拔高度不超过2000m;
- 2、环境温度: -5℃ 40℃; 平均温度不高于+35℃;
- 3、互感器安装场所应干燥通风; 空气相对湿度不大于80%, 且周围无侵蚀性和爆炸性的介质。

- 1.The transformer installed above sealevel is not more than 2000m;
- 2.The ambient temperature: -5℃ to 40℃, the average temperature is not higher than +35℃;
- 3.The transformer installation place should be dry and ventilated; air relative humidity is not more than 80%, and the surrounding is no corrosive and explosive media.

结构特点 Structural feature

互感器铁芯采用初始导磁率高、饱和磁密低的铁基纳米合金金带材作为导磁材料, 二次绕组均匀绕制, 其中间窗口采用工程塑料, 大大加强了产品的绝缘性能, 同时作为二次线圈定位, 增强了产品的外观及绝缘强度, 中间窗口可通过一次母线或缠绕软电缆。

The iron core of the transformer uses iron-based nano-alloy strip as its magnetic material with features of high initial permeability and low saturation flux density, the secondary winding is evenly wound, its middle window uses plastic which greatly enhance the insulation performance of the product, at the same time, as position of the secondary coil, it enhances the appearance and insulation strength of the product, the middle windows can hold the primary bus or twisted soft cable.

技术参数 Technical parameter

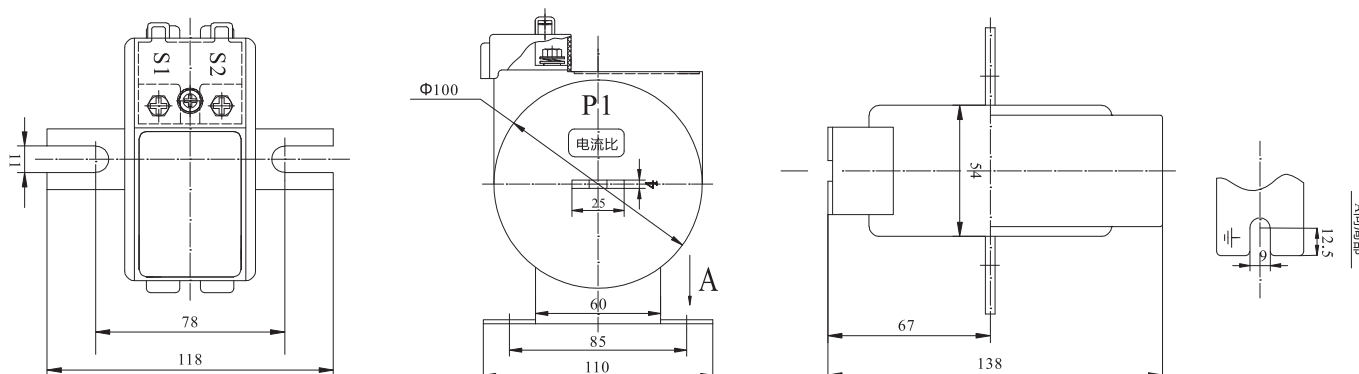
表一: 功率因数 $\cos\Phi=0.8$
Table 1: power factor $\cos\Phi=0.8$

型号 Type	额定一次电流 Rated primary current(A)	额定二次电流 Rated secondary current(A)	精度等级 Accuracy class	额定二次负荷 Rated secondary load(VA)	备注 Note
LFZ1D-0.66	5-60	5	0.2S	5/2.5	图1 Fig.1
LMZ1D-0.66	75-150	5	0.2S	5/2.5	图2 Fig.2
LMZ2D-0.66	200-600	5	0.2S	5/2.5	图2 Fig.2
LMZ3D-0.66	600-800	5	0.2S	5/2.5	图3 Fig.3
LMZ4D-0.66	1000-2000	5	0.2S	5/2.5	图3 Fig.3

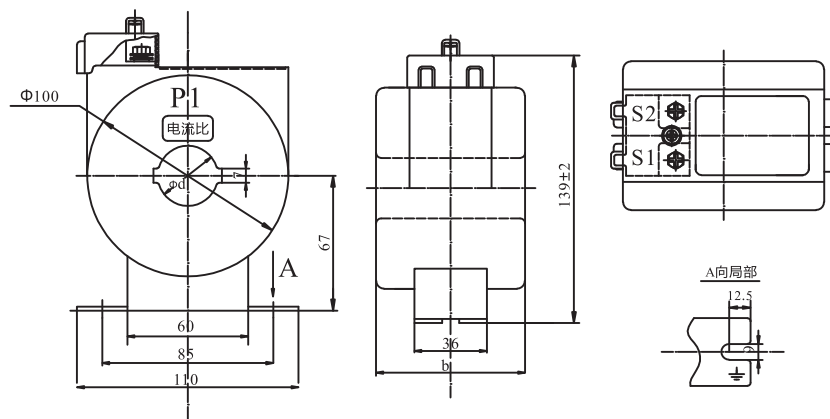
表二: 互感器出厂误差限值
Table 2: out of the factory error limit value of transformer

准确等级 Accuracy class	电流百分数(%) Current percentage	1	5	20	100	120
0.2S	比值差(±%) Ratio difference	0.67	0.27	0.12	0.12	0.12
	相位差(±') Phase difference	26	11	6	6	6
0.5S	比值差(±%) Ratio difference	1.2	0.45	0.3	0.3	0.3
	相位差(±') Phase difference	72	27	18	18	18

外形及安装尺寸 Outline and installation dimension

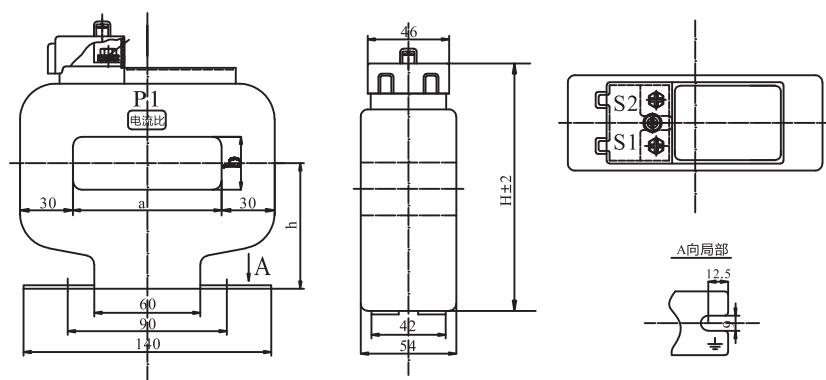


外形及安装尺寸 Outline and installation dimension



型号Type	规格Spec.	Φ d	b
LMZ(1、2)D-0.66	75/5	30	74
LMZ(1、2)D-0.66	100/5	30	74
LMZ(1、2)D-0.66	150/5	30	74
LMZ(1、2)D-0.66	200/5	40	54
LMZ(1、2)D-0.66	300/5	40	54
LMZ(1、2)D-0.66	400/5	40	54
LMZ(1、2)D-0.66	500/5	40	54
LMZ(1、2)D-0.66	600/5	40	54

图2 LMZ(1、2)D-0.66产品外形及安装尺寸图
Fig.2 Outline and installation dimension of LMZ(1,2)D-0.66



型号Type	规格Spec.	a	b	h	H
LMZ(3、4)D-0.66	600/5	84	35	71	143
LMZ(3、4)D-0.66	750/5	84	35	71	143
LMZ(3、4)D-0.66	800/5	84	35	71	143
LMZ(3、4)D-0.66	1000/5	104	50	81	163
LMZ(3、4)D-0.66	1200/5	104	50	81	163
LMZ(3、4)D-0.66	1500/5	104	50	81	163
LMZ(3、4)D-0.66	2000/5	104	50	81	163

图3 LMZ(3、4)D-0.66产品外形及安装尺寸图
Fig.3 Outline and installation dimension of LMZ(3,4)D-0.66



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LM-0.5 电流互感器 LM-0.5 Current transformer

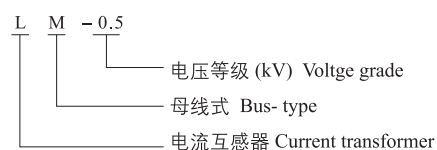


概述 Summary

LM-0.5型电流互感器适用于额定频率50Hz或60Hz、额定电压0.5kV及以下的电力系统中，作电能计量、电流测量和继电保护用。

The current transformer of type LM-0.5 is used for metering electric energy and current, relay protection in the electrical system up to rated frequency 50Hz or 60Hz and rate voltage 0.5kV.

型号含义 Type designation



结构 Construction

本型电流互感器采用环形铁心，二次绕组均匀制在铁心上，并装在夹件上，夹件上有安装孔，中间窗孔供一次母线通过用。

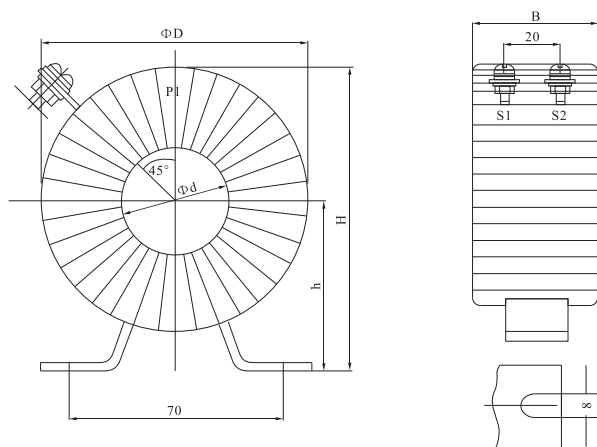
The iron core is ring type. The secondary windings wrap equality around the core. There is a hole for the busbar going through on the clip.

技术参数 Technical parameter

额定一次电流 Rated primary current	额定二次电流 Rated secondary current(A)	一次安匝数 Primary ampere-turn	准确级 Accuracy class	额定输出 Rated output (VA)
5,10,15,30,50,75,150	5	150	0.5	5
20,40,100,200		200		5
300,400,500,600		300~600		5
800		800		20
1000~5000		1000~5000		20

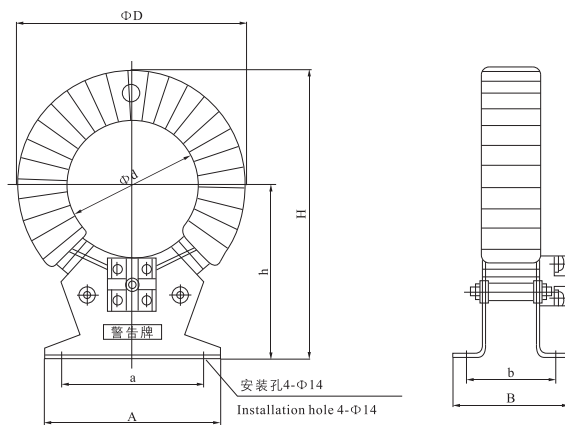


外形及安装尺寸 Outline and installation dimension



LM-0.5(5-600/5)

额定一次电流(A) Rated primary current	ΦD	ϕd	H	h	B
5-300	80	41	92	51	37
400-600	90	53	101	55	37



LM-0.5(800-5000/5)

额定一次电流(A) Rated primary current	ΦD	ϕd	H	h	A	a	B	b
800-1000	173	113	243	155	148	120	95	65
1500	215	110	260	152.5	160	130	106	80
2000	210	96	265	155				
3000-5000	275	150	360	222.5	220	160	146	106



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LYM-0.5 电流互感器 LYM-0.5 Current transformer



外形及安装尺寸 Outline and installation dimension

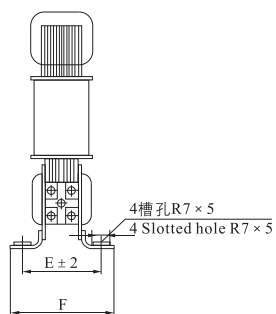
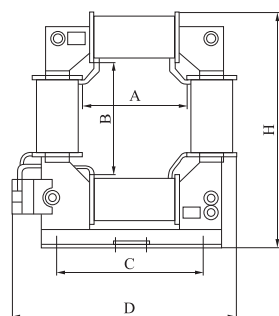


图1 (750-5000A)外形及安装尺寸图
Diagram1 Overall and installation dimension (750-5000A)
current transformer .

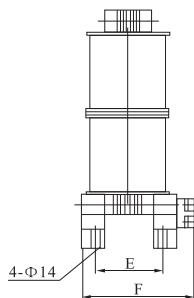
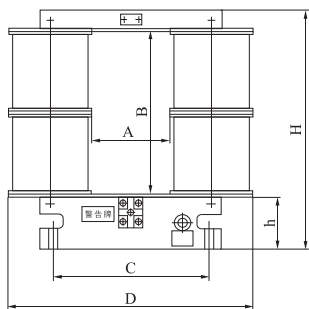


图2 (7500-15000A)外形及安装尺寸图
Diagram2 Overall and installation dimension (7500-15000A)
current transformer.

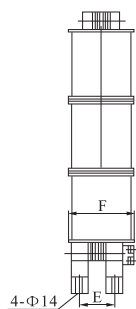
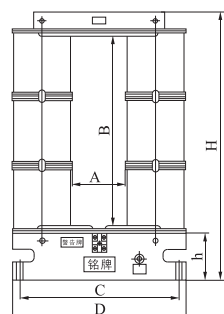


图3 (20000-40000A)外形及安装尺寸图
Diagram3 Overall and installation dimension (20000-40000A)
current transformer.





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IIN(A)	A	B	C	D	E	F	H	h
750~4000	102	102	155	230	85	120	255	
5000	140	140	195	295	102	155	305	
7500~10000	120	250	230	360	100	140	360	80
15000	120	350	280	360	100	155	470	80
20000	210	450	350	410	90	150	610	120
25000	200	600	430	480	110	150	760	120
30000	260	600	430	540	130	150	760	120
40000	260	600	450	550	140	170	785	120

技术参数 Technical parameter

额定一次电流 Rated primary current(A)	额定二次电流 Rated secondary current(A)	准确级次 Accuracy class	额定二次负载 Rated secondary load (Ohm)Ω	额定准确限值系数 Rated accuracy limit factor	一秒热电源倍数 Thermal stable multiple of 1s	最大二次电源倍数 Multiple of max secondary power source
750	5	1,3	0.8	6	70 I _{in}	13
1000	5	0.5,1	0.8	10	70 I _{in}	16
1500	5	0.5,1	0.8	14	70 I _{in}	19
2000	5	0.5,1	0.8	18	70 I _{in}	23
3000	5	0.5,1	0.8	20	70 I _{in}	27
4000	5	0.5,1	0.8	10	70 I _{in}	15
5000	5	0.5,1	0.8	10	70 I _{in}	14
7500	5	3	0.8	5	90 I _{in}	10
10000	5	3	0.8	3	90 I _{in}	9
15000	5	3	2.0	3	120 I _{in}	8
20000	5	3	2.0	3	120 I _{in}	8
25000	5	3	2.0	3	170 I _{in}	8
30000	5	3	2.0	3	170 I _{in}	8
40000	5	3	2.0	3	170 I _{in}	8



LMK1,2-0.66/A,B(BH,SDH,MSQ) 系列塑壳式电流互感器 LMK1,2-0.66/A,B(BH,SDH,MSQ) Molded-case current transformer



概述 Summary

LMK1、2-0.66A、B(BH、MSQ、SDH)系列型电流互感器，供额定频率为50Hz，额定电压为0.66kV及以下的电力系统中作电流、电能测量和继电保护之用。

1. 品种规格齐全，适用范围广，适用于一次电流为5A至5000A，1A至4000A的全部规格(包括非标规格)。二次电流有5A或1A两种，设计不同窗口种类可与任何汇流排及电缆对应使用。
2. 外形设计美观、合理。
3. 指标先进、国内领先，结构性能优良。
4. 与国类产品相比，体积小、重量轻、容量大、精度高，符合电控设计紧凑化趋向的要求。
5. 安全、阻燃、表面无一处带电，壳体由进口阻燃材料高压注塑成型，强度高且不燃烧。
6. 坚固、耐用，整个产品为全封闭型，有耐温、防潮、防振、防污、防盐雾、防窃电等特点。

Series LMK1, 2-0.66A, B(BH, MSQ, SDH) current transformer is mainly used for power system with rated frequency 50Hz and rated voltage under 0.66 KV to measure electric energy, current and protect relay.

1. With full complete of specification and wide range of application, suitable for any primary current range from 5A to 5000A or from 1A to 4000A (including non-standard specification), the secondary current has two types: 5A and 1A, the different window types can match with different bus-bars and cables.
2. With nice appearance and reasonable design.
3. With advanced technology and excellent performance.
4. Compared to same line of products, this product is more compact, less weight, larger capacity, higher accuracy and more compliance with the standard of electric-control design.
5. With features such as safety, flame retardant, without static electricity in the surface, the case is made of imported flame retardant material by high-pressure casting, so it has feature of high strength and resisting flame.
6. With features of firmness, durability, full-seal, high temperature resistant, moisture proof, shock proof, anti-salt spray and prevent from electric-theft.





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型号含义 Type designation

BH、MSQ、SDH 本类型电流互感器特定型号:

L-电“流”互感器; K 塑料外“壳”绝缘; M 贯穿“母”线式; 1、2为设计序号

A/B分类:

1.A为方圆型,既可穿越电缆,也可穿越汇流排,一般作监控用。

2.B为卧式方孔型,可穿越1-3块汇流排,一般作监控用。

Model description for BH,MSQ and SDH current transformer:

L-current transformer; K-plastic case; M-bus type; 1 or 2 - design S/N;

A/B classification:

1.A: for square or circular type, can go through cable or busbar, generally used for monitoring.

2.B: for horizontal square-hole type, can go through 1 to 3 busbar, generally used for monitoring.

使用范围 Application scope

1.工作电压 $\leq 0.66\text{kV}$;

2.额定频率50~60Hz;

3.海拔高度不超过1000m;

4.周围介质温度为 $-5^{\circ}\text{C}\sim+40^{\circ}\text{C}$;

5.空气相对湿度不超过85%;

6.用于没有雨雪直接侵袭,无严重污染,无爆炸无剧烈震动、无腐蚀金属和破坏绝缘的尘埃或蒸汽的场所。

1. working voltage: $\leq 0.66\text{KV}$;

2. rated frequency: 50-60Hz;

3. altitude: $\leq 1000\text{m}$;

4. ambient temperature: $-5^{\circ}\text{C}\sim+40^{\circ}\text{C}$;

5. RH: $\leq 85\%$;

6. environment without rain or snow, no heavy pollutant, no explosion or shock, no corrosive metal or dust or steam.

使用方法 Using method

1.根据一次电流及母线截面等参数选取对应的规格。一次导线(一次线圈)穿越CT窗孔,卸下CT顶部接线罩壳,支掉引线垫片,二次线引出后罩壳复位,计量电能用的可利用固定螺丝和罩壳上小孔加封铅印,以防窃电。

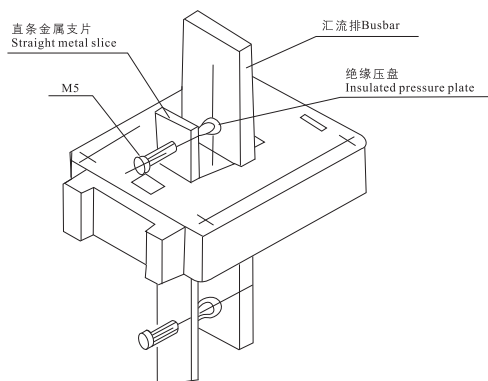
2.产品极性表示,P1表示一次线圈的极性端,S1表示P1的同名端,S2表示P2的同名端。

1. Select the suitable specification according to primary current and section of bus. The primary windings go through the window-hole of CT, dismantle the cover on the top of CT and remove shim, the cover will return to its original position after the secondary windings lead out, use screw to fix it and seal with lead inside the hole of case to prevent from electric-theft.

2. Polarity: P1 indicates the polarity of primary winding, S1 indicates the same polarity of P1, S2 indicates the same polarity of P2.



MK1-0.66(BH) 型安装方法 MK1-0.66(BH) installment method



图L 直型金属支片压紧法
Diagram L: pressed by straight metal slice

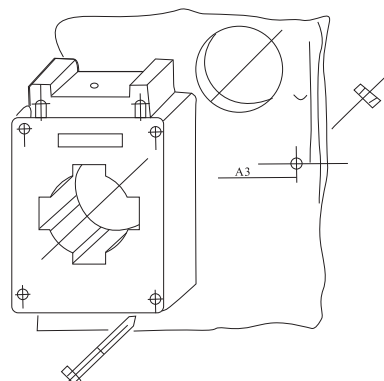
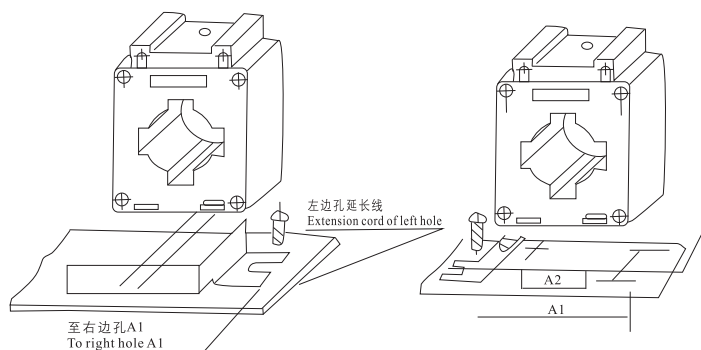
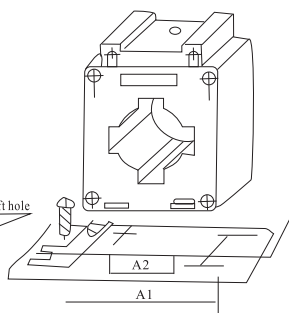


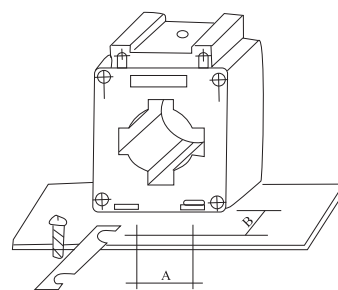
图 用长螺丝固定
Diagram Fixed by long screw



图一 两侧固定
Diagram one: Fixed on two sides



图H 弯片固定
Diagram H: Fixed by bent slice



图J 用直条片固定
Diagram J: Fixed by straight slice

注意事项 Note

1. 互感器允许接到不超过0.66kV的交流电路中，长期工作电流不超过额定值的1.1倍，允许1.2倍额定电流的短时间使用，北京时间不超过1小时，瞬间(1S内)工作电流不允许超过60倍额定电流(30B型为40倍)，非标和作保护用的例外。
2. 测量仪表接于S1、S2端子上，此时必须注意所接仪表的总阻抗(包括接线)不超过互感器的额定负荷。
3. 互感器在运行中严禁二次开路，假如二次线圈意外在通电时发生开路，则必须进行退磁处理，以减少误差的增加。

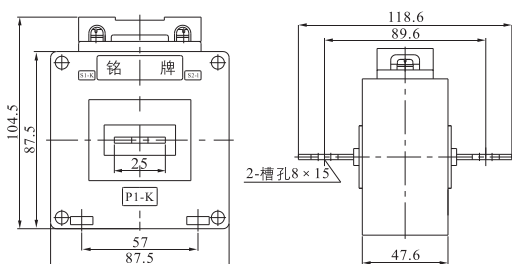
1. The transformer is used for AC circuit with rated voltage under 0.66KV, the working current should not exceed 1.1 times of rated current in long-term use of this product; for short-time use (e.g., Beijing time less than 1 hour), the working current is permitted up to 1.2 times of rated current, the instantaneous (within 1s) working current should not exceed 60 times of rated current (model 30B shall be 40 times of that) (excluding non-standard or any type use for protection).

2. The measuring meter should be connected to terminal S1 and S2, and the overall impedance of the meter (including connecting wire) should not exceed the rated load of transformer

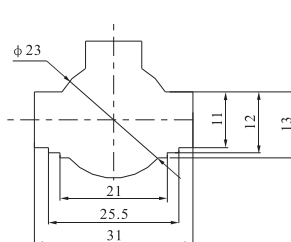
3. The secondary winding is strictly prevented secondary from open circuit during operation of transformer. If any open circuit occurs accidentally for secondary winding, it must be treat with demagnetizing process to reduce error during measurement.



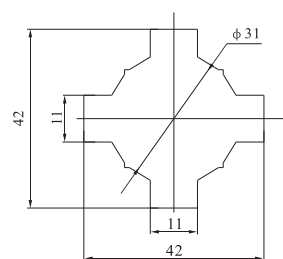
LMK1-0.66(BH) 型窗口尺寸 Window size for model LMK1-0.66(BH)



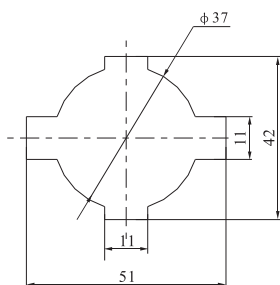
图A、-30B型外形尺寸图
Diagram A Outline size diagram of -30B type



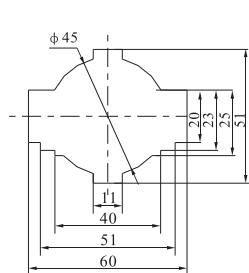
图B、-30型内孔
Diagram B Inner bore of -30 type



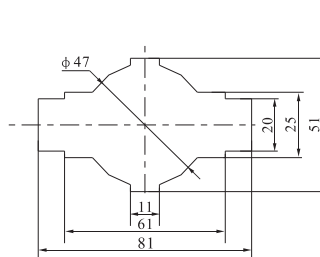
图C、-40型内孔
Diagram C Inner bore of -40 type



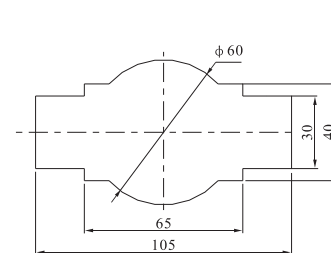
图D、-50型内孔
Diagram D Inner bore of -50 type



图E、-60型内孔
Diagram E Inner bore of -60 type

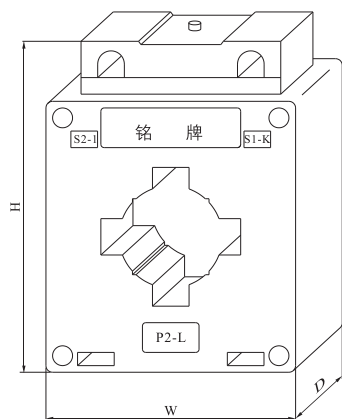


图F、-80型内孔
Diagram F Inner bore of -80 type



图G、-100型内孔
Diagram G Inner bore of -100 type

LMK1-0.66(BH) 型外形尺寸 Outline size of LMK1-0.66(BH) type



图P
Diagram p

规格 Specification	H	W	D
-30	79	60	32
-40	97	75	40
-50	98	82	40
-60	126	101	44
-80	111	124	40
-100	136	170	40

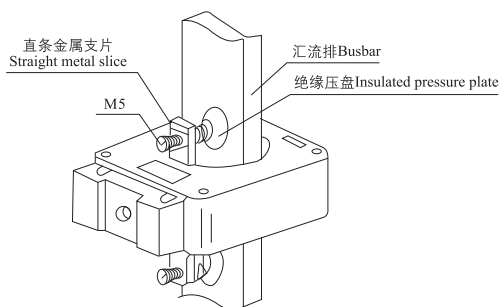


LMK1-0.66(BH) 主要技术参数 Main technical parameters for model LMKI-0.66(BH)

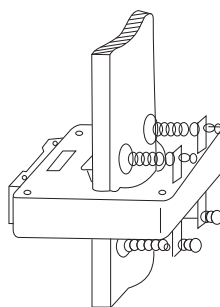
型号 Type	额定电流比 Rated current ratio	汇流排截面 Section of busbar	根数 Number of bars	额定负载 Rated load	精度等级 Accuracy grade	最高工作电压 Max. working voltage	穿心匝数 Number of turns	窗口尺寸 Window size	安装方式 Installment method
-30B	30/5-150/5	25 × 3		5-10	0.5	660		图A	
-30	15/5			2.5	1	660	10	图B	图H、I、J、K
	20/5			2.5	1	660	5		图H、I、J、K
	30/5			2.5	1	660	5		图H、I、J、K
	40/5			2.5	1	660	5		图H、I、J、K
	50/5			2.5	1	660	2		图H、I、J、K
	75/5		1	2.5	1	660	1		图H、I、J、K、L
	100/5	30 × 10	1	2.5	1	660	1		图H、I、J、K、L
	150/5	30 × 10	1	5	0.5	660	1		图H、I、J、K、L
	200/5	30 × 10	1	5	0.5	660	1		图H、I、J、K、L
	250/5	30 × 10	1	5	0.5	660	1		图H、I、J、K、L
-40	300/5	30 × 10	1	5	0.5	660	1		图H、I、J、K、L
	100/5	40 × 10	1	2.5	1	660	1	图C	图H、I、J、K、L
	150/5	40 × 10	1	2.5	1	660	1		图H、I、J、K、L
	200/5	40 × 10	1	5	1	660	1		图H、I、J、K、L
	250/5	40 × 10	1	5	1	660	1		图H、I、J、K、L
	300/5	40 × 10	1	5	0.5	660	1		图H、I、J、K、L
	400/5	40 × 10	1	5	0.2	660	1		图H、I、J、K、L
	500/5	40 × 10	1	10	0.2	660	1		图H、I、J、K、L
-50	600/5	40 × 10	1	10	0.2	660	1		图H、I、J、K、L
	300/5	50 × 10	1-2	5	0.5	660	1	图D	图H、I、J、K、L
	400/5	50 × 10	1-2	5	0.5	660	1		图H、I、J、K、L
	500/5	50 × 10	1-2	10	0.2	660	1		图H、I、J、K、L
-60	600/5	50 × 10	1-2	10	0.2	660	1		图H、I、J、K、L
	400/5	30 × 10 60 × 6	1-2	5	0.5	660	1	图E	图H、I、J、K、L
	500/5	30 × 10 60 × 6	1-2	10	0.5	660	1		图H、I、J、K、L
	600/5	30 × 10 60 × 6	1-2	10	0.2	660	1		图H、I、J、K、L
	750/5	30 × 10 60 × 6	1-2	10	0.2	660	1		图H、I、J、K、L
	800/5	30 × 10 60 × 6	1-2	10	0.2	660	1		图H、I、J、K、L
	1000/5	30 × 10 60 × 6	1-2	15	0.2	660	1		图H、I、J、K、L
	1200/5	30 × 10 60 × 6	1-2	20	0.2	660	1		图H、I、J、K、L
	1500/5	30 × 10 60 × 6	1-2	20	0.2	660	1		图H、I、J、K、L
-80	2000/5	30 × 10 60 × 6	1-2	30	0.2	660	1		图H、I、J、K、L
	600/5	80 × 10 60 × 10	1-2	5	0.5	660	1	图F	图H、I、J、K、L
	750/5	80 × 10 60 × 10	1-2	5	0.5	660	1		图H、I、J、K、L
	800/5	80 × 10 60 × 10	1-2	10	0.5	660	1		图H、I、J、K、L
	1000/5	80 × 10 60 × 10	1-2	15	0.2	660	1		图H、I、J、K、L
	1200/5	80 × 10 60 × 10	1-2	15	0.2	660	1		图H、I、J、K、L
	1500/5	80 × 10 60 × 10	1-2	15	0.2	660	1		图H、I、J、K、L
	2000/5	80 × 10 60 × 10	1-2	20	0.2	660	1		图H、I、J、K、L
-100	2500/5	80 × 10 60 × 10	1-2	20	0.2	660	1		图H、I、J、K、L
	800/5	100 × 10 80 × 10	1-2	10	0.5	660	1	图G	图H、I、J、K、L
	1000/5	100 × 10 80 × 10	1-2	10	0.5	660	1		图H、I、J、K、L
	1200/5	100 × 10 80 × 10	1-2	20	0.2	660	1		图H、I、J、K、L
	1500/5	100 × 10 80 × 10	1-2	20	0.2	660	1		图H、I、J、K、L
	2000/5	100 × 10 80 × 10	1-2	20	0.2	660	1		图H、I、J、K、L
	2500/5	100 × 10 80 × 10	1-2	20	0.2	660	1		图H、I、J、K、L
	3000/5	100 × 10 80 × 10	1-2	20	0.2	660	1		图H、I、J、K、L



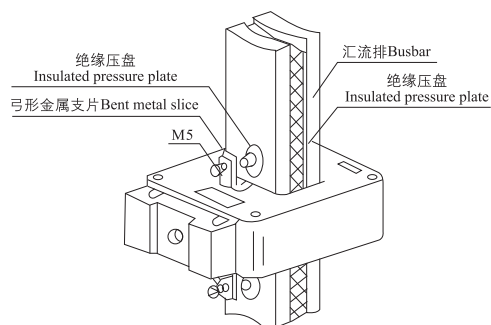
LMK2-0.66(MSQ) 型安装方法 installment method



图L、直形金属支片压紧法
Diagram L: pressed by
straight metal slice

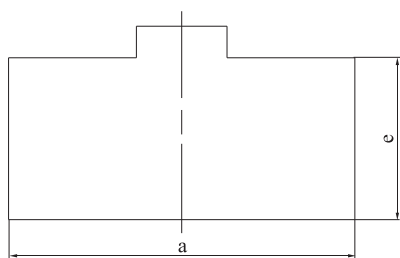


图M、二直形金属支片压紧法
Diagram M: pressed by two
straight metal slices



图N、弓形金属支片压紧法
Diagram N: pressed by
bent metal slice.

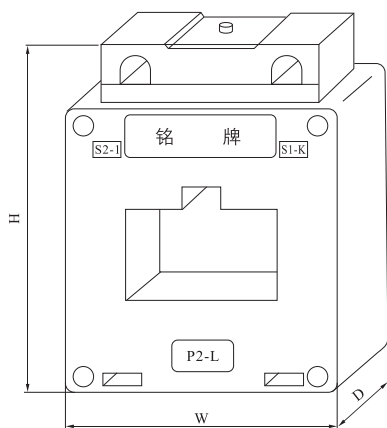
LMK2-0.66(MSQ) 型窗口尺寸 Window size for model



图Fig Q

规格Specification	a	c
-40	42	31
-50	51	31
-60	62	31
-80	82	32
-100	102	32
-120	122	52
-180	184	34

LMK2-0.66(MSQ) 型外形尺寸 Outline size of LMK2-0.66(MSQ) type



规格Specification	H	W	D
-40	105	76	46
-50	107	87	46
-60	112	99	46
-80	120	119	46
-100	124	140	52
-120	154	158	48
-180	115	128	50



SANAI
transformer
三友互感器LONG YOU
transformer
三友互感器

ISO9001国际体系认证企业

中国人民保险公司质量承保

LMK1-0.66(MSQ) 主要技术参数 Main technical parameters for model LMK1-0.66(MSQ)

型号 Type	额定电流比 Rated current ratio	汇流排截面 Section of bus-line	根数 Number of bars	额定负载 Rated load	精度等级 Accuracy grade	最高工作电压 Max. working voltage	穿心匝数 Number of turns	窗口尺寸 Window size	安装方式 Installation method
-40	200/5	40 × 10	1-2	5	0.5	660	1	图Q	图N
	250/5	40 × 10	1-2	5	0.5	660	1		图N
	300/5	40 × 10	1-2	5	0.5	660	1		图N
	400/5	40 × 10	1-2	5	0.5	660	1		图N
	500/5	40 × 10	1-2	10	0.2	660	1		图N
	600/5	40 × 10	1-2	10	0.2	660	1		图N
	750/5	40 × 10	1-2	10	0.2	660	1		图N
	800/5	40 × 10	1-2	10	0.2	660	1		图N
-50	400/5	50 × 10	1-2	5	0.5	660	1	图Q	图N
	500/5	50 × 10	1-2	5	0.5	660	1		图N
	600/5	50 × 10	1-2	10	0.2	660	1		图N
	750/5	50 × 10	1-2	10	0.2	660	1		图N
	800/5	50 × 10	1-2	10	0.2	660	1		图N
	1000/5	50 × 10	1-2	10	0.2	660	1		图N
-60	400/5	60 × 10	1-2	5	0.5	660	1	图Q	图L、M
	500/5	60 × 10	1-2	5	0.5	660	1		图L、M
	600/5	60 × 10	1-2	10	0.5	660	1		图L、M
	750/5	60 × 10	1-2	10	0.5	660	1		图L、M
	800/5	60 × 10	1-2	10	0.2	660	1		图L、M
	1000/5	60 × 10	1-2	10	0.2	660	1		图L、M
	1200/5	60 × 10	1-2	10	0.2	660	1		图L、M
-80	600/5	80 × 10	1-2	10	0.5	660	1	图Q	图L、M
	750/5	80 × 10	1-2	5	0.5	660	1		图L、M
	800/5	80 × 10	1-2	5	0.2	660	1		图L、M
	1000/5	80 × 10	1-2	10	0.2	660	1		图L、M
	1200/5	80 × 10	1-2	15	0.2	660	1		图L、M
	1500/5	100 × 10	1-2	20	0.2	660	1		图L、M
-100	750/5	100 × 10	1-2	5	0.5	660	1	图Q	图L、M
	800/5	100 × 10	1-2	10	0.2	660	1		图L、M
	1000/5	100 × 10	1-2	15	0.2	660	1		图L、M
	1200/5	100 × 10	1-2	15	0.2	660	1		图L、M
	1500/5	100 × 10	1-2	20	0.2	660	1		图L、M
	2000/5	100 × 10	1-2	30	0.2	660	1		图L、M
	2500/5	100 × 10	1-2	40	0.2	660	1		图L、M
	3000/5	120 × 10	1-2	40	0.2	660	1		图L、M
-120	1000/5	120 × 10	1-2	15	0.5	660	1		图L、M
	1200/5	120 × 10	1-2	15	0.2	660	1	图Q	图L、M
	1500/5	120 × 10	1-2	20	0.2	660	1		图L、M
	2000/5	120 × 10	1-2	30	0.2	660	1		图L、M
	2500/5	120 × 10	1-2	40	0.2	660	1		图L、M
	3000/5	120 × 10	1-2	40	0.2	660	1		图L、M
	4000/5	120 × 10	1-2	40	0.2	660	1		图L、M
	5000/5	120 × 10	1-2	40	0.2	660	1		图L、M
-180	1500/5	180 × 10	1-2	20	0.5	660	1		图L、M
	2000/5	120 × 10	1-2	30	0.5	660	1		图L、M
	2500/5	120 × 10	1-2	40	0.2	660	1	图Q	图L、M
	3000/5	120 × 10	1-2	40	0.2	660	1		图L、M
	4000/5	120 × 10	1-2	40	0.2	660	1		图L、M
	5000/5	120 × 10	1-2	40	0.2	660	1		图L、M



LMZ1/LMZJ1-0.5 电流互感器 LMZ1/LMZJ1-0.5 Current transformer

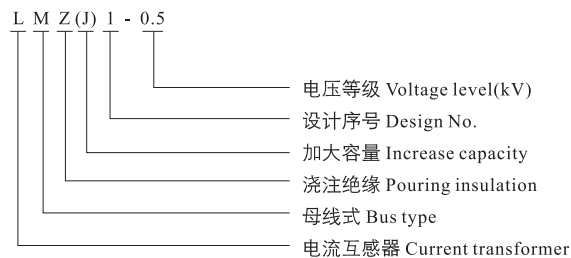


概述 Summary

LMZ(J)1-0.5系列电流互感器适用于额定频率为50Hz或60Hz，额定电压为0.5kV及以下的电力系统中，作电能计量、电流测量和继电保护用。

LMZJ1-0.5 series current transformer for rated frequency of 50Hz or 60Hz, rated voltage of 0.5kV and below the power system for power measurement, current measurement and relay protection.

型号含义 Type designation



结构特点 Structural feature

本型互感器为母线式浇注绝缘，采用优质环形铁心(大电流比为椭圆形)有额定输出大、准确级高等优点，铁心经过退火处理，二次线圈沿径向均匀缠绕在铁心上，出头处焊接有铜螺母方便接线。本互感器具有结构紧凑、安装方便、占用体积小等优点，适用于低压成套柜或低压电器中做电流的变换器件。

This type of transformer is busbar type casting insulation, high-quality toroidal core (high current ratio of oval) have large rated output, accuracy advantages, annealed core, the secondary coil is wound on the radially uniform core, head welded copper nut convenient wiring. The transformer has a compact, easy to install, taking advantages of small size, making the device suitable for converting current and low voltage cabinet or low voltage appliances.

技术参数 Technical parameter

型号 Type	额定一次电流 Rated primary current(A)	额定二次电流 Rated secondary current(A)	一次安匝 Primary ampere-turn	额定负荷 Rated load $\cos \phi = 0.8(\text{VA})$			需多匝缠绕的一次电流 Primary current required by multi-turn winding(A)
				0.5级 Class 0.5	1级 Class 1	3级 Class 3	
LMZ1-0.5	5,10,20,50,100,15,30, 75,150,40,200,300,400	5	100,150, 200,300,400	5	7.5		5-50 15-75 40
LMZJ1-0.5	5,10,20,30,50,75,100,150, 300,400,200,400,500,600,800	5	300,400, 500-800	10	15		5-50 15-75 40
	1000,1200,1500,2000,3000	5	1000-3000	30	30	50	5-50 15-75 40



SANAI
transformer
三爱互感器

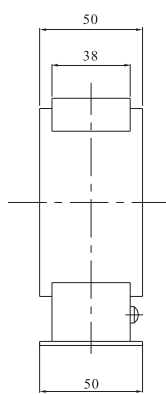
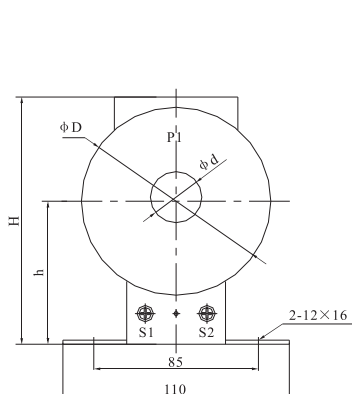
LONG YOU
transformer
三友互感器



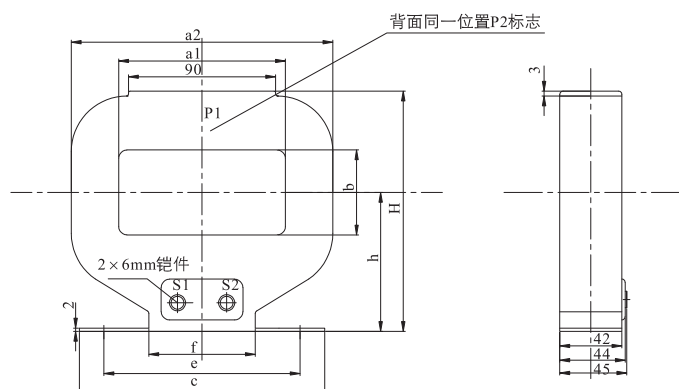
ISO9001国际体系认证企业

中国人民保险公司质量承保

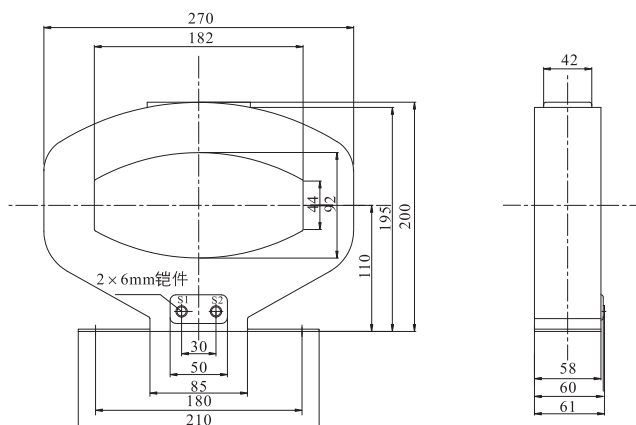
外形及安装尺寸图 Outline and installation dimension



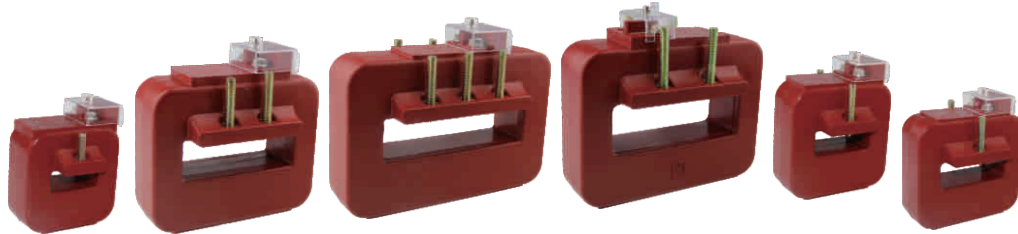
型号 Type	电流比 Current ratio(A)	H (mm)	h (mm)	Φ D (mm)	Φ d (mm)
LMZ1-0.5	5-300/5	117	68	90	30



型号 Type	电流比 Current ratio(A)	a1 (mm)	a2 (mm)	b (mm)	h (mm)	H (mm)	e (mm)	c (mm)	f (mm)
LMZJ1-0.5	600-1000/5	82	136	52	73	130	100	130	55
	1000-2000/5	102	160	52	85	147	120	150	65
	2000-3000/5	130	190	62	95	165	150	180	75



LMZ1/LMZ2-0.66 电流互感器 LMZ1/LMZ2-0.66 Current transformer

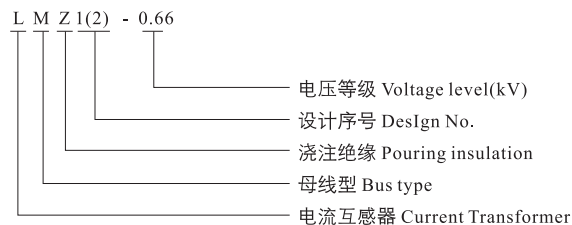


概述 Summary

LMZ1(2)-0.66型电流互感器为树脂浇注绝缘产品，适用于额定频率50Hz或60Hz，额定电压0.66kV及以下低压配电线路中作电流、电能、功率测量和继电保护用（户内装置）。

LMZ1 (2)-0.66 type current transformer insulation products for resin casting, suitable for rated frequency 50Hz or 60Hz, as the current, rated voltage 0.66kV and below voltage distribution lines in power, power measurement and relay protection (indoor device).

型号含义 Type designation



结构特点 Structural feature

本型互感器为母线式浇注绝缘，采用优质环形铁心(大电流比为椭圆形)有额定输出大、准确级高等优点，铁心经过退火处理，二次线圈沿径向均匀缠绕在铁心上，出头处焊接有铜螺母方便接线。本互感器具有结构紧凑、安装方便、占用体积小等优点，适用于低压成套柜或低压电器中做电流的变换器件。

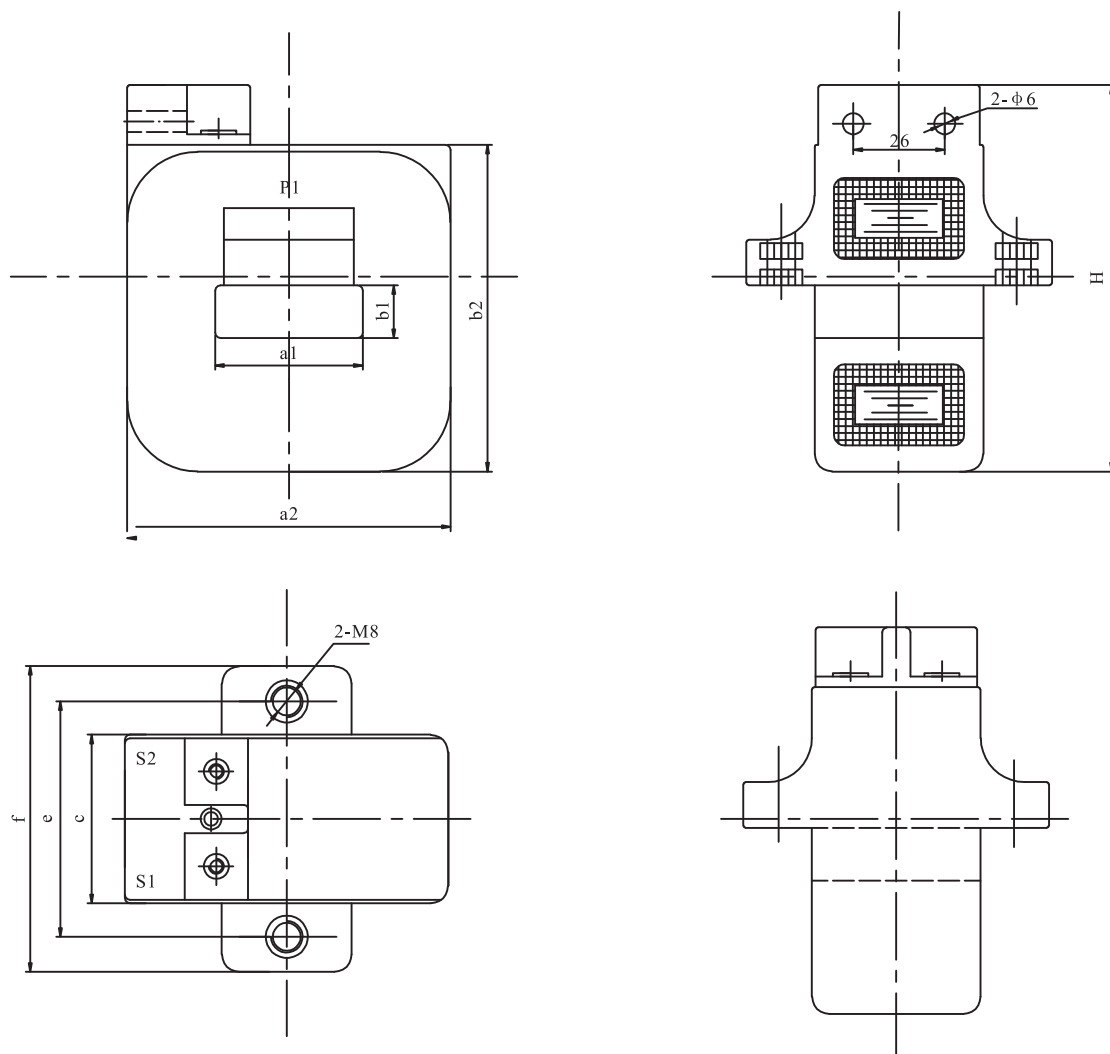
This type of transformer is busbar type casting insulation, high-quality toroidal core (high current ratio of oval) have large rated output, accuracy advantages, annealed core, the secondary coil is wound on the radially uniform core, head welded copper nut convenient wiring. The transformer has a compact, easy to install, taking advantages of small size, making the device suitable for converting current and low voltage cabinet or low voltage appliances.

技术参数 Technical parameter

型号 Type	额定一次电流 Rated primary current(A)	额定二次电流 Rated secondary current(A)	额定输出(VA)0.5级 Rated output(VA) Class 0.5
LMZ1-0.66	150,200,315,400	5	5
	630,800		10
	1000,1250,1600		15
LMZ2-0.66	2000,2500,3150		20
	4000		30



外形及安装尺寸图 Outline and installation dimension



型号 Type	规格 Specification	a_1 (mm)	a_2 (mm)	b_1 (mm)	b_2 (mm)	H (mm)	c (mm)	e (mm)	f (mm)
LMZ2-0.66	150-200/5	32	94	15	93	113	48	69	89
	250-400/5	42	92	15	93	113	50	67	87
	500-600/5	52	103	18	109	122	50	67	87
	750/5	62	127	20	123	136	50	67	87
	800/5	82	137	22	128	141	50	67	87
	1000-1500/5	102	157	25	131	144	50	67	87
	2000-4000/5	142	207	35	141	154	50	67	87



LQZJ4-0.66 电流互感器 LQZJ4-0.66 Current transformer

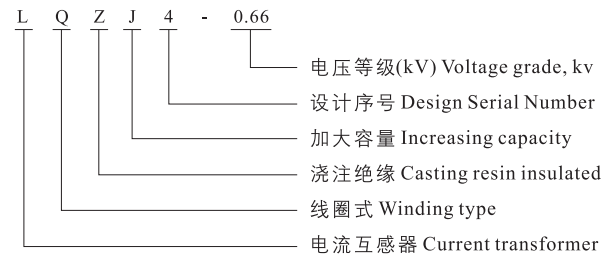


概述 Summary

本型电流互感器适用于额定频率为50Hz或60Hz，额定电压为0.66kV及以下的电力系统中，作电能计量、电流测量和继电保护用。

The current transformer is used for measuring electric energy and current relay protection in the electric system up to rated frequency 50 Hz or 60Hz and rated voltage 0.66kV.

型号含义 Type designation



结构 Construction

本型电流互感器为环氧树脂浇注全封闭结构，体积小、重量轻，适宜于任何位置、任意方向安装。底部或一侧有安装底板、底板有两种，各有两个或四个安装孔供用户选择。该型产品用以取代LQG-0.5。

This current transformer is fully enclosed and cast with epoxy resin. It is small and light. It can be mounted in any position you like. There have two type of mounting panels on the bottom or side. On the mounting panel there are two or four holes for choosing. It is a new product that can replace LQG-0.5.

技术参数 Technical parameter

额定一次电流 Rated primary current(A)	额定二次电流 Rated secondary current(A)	额定二次输出 Rated secondary output(VA)				额定短时热电流(kA有效值) Rated short-time thermal-current(kA virtual value)	额定动稳定电流(kA有效值) Rated dynamic stability current(kA virtual value)
		0.2S	0.2	0.5S	0.5		
5-200 250-400 500-600 750-1000	5	5	5	5		50 IIn	100 IIn
		10	10	10	10		



SANAI
transformer
三爱互感器

LONG YOU
transformer
三友互感器



ISO9001国际体系认证企业

中国人民保险公司质量承保

外形及安装尺寸图 Outline and installation dimension

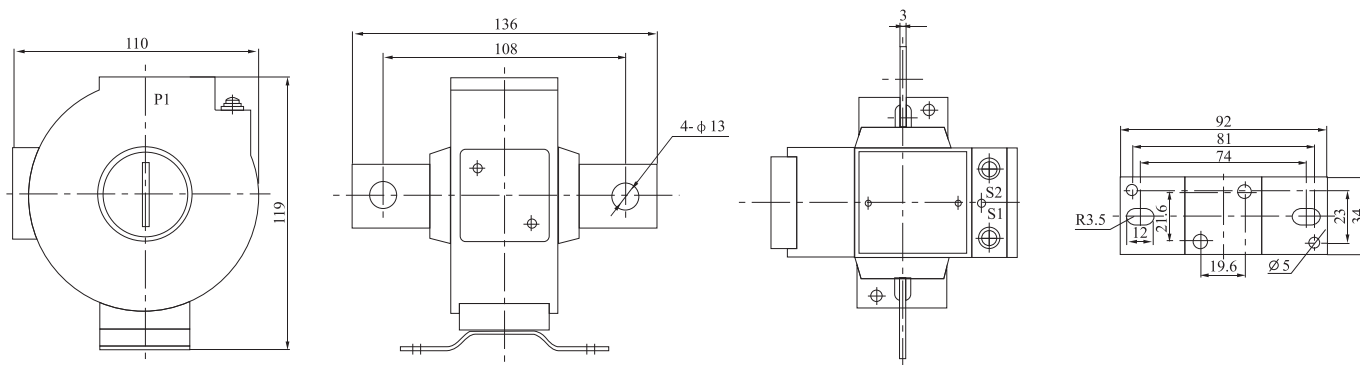


图1 LQZJ4-0.66 5-600/5A外形及安装尺寸图

Diagram1 Outline and installation dimension of LQZJ4-0.66 5-600/5A

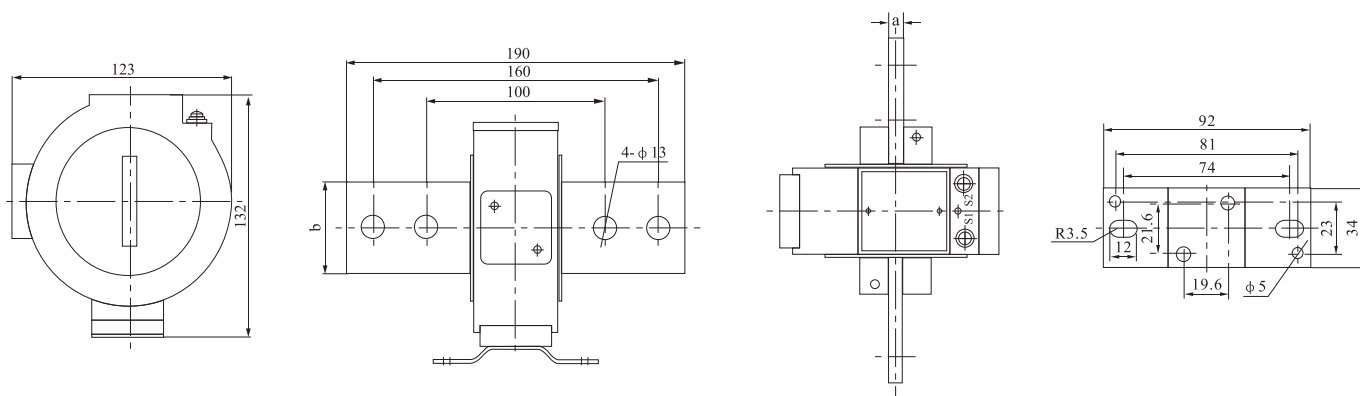


图2 LQZJ4-0.66 750、800、1000/5外形及安装尺寸图

Diagram2 Outline and installation dimension of LQZJ4-0.66 750,800,1000/5

电流比Current ratio	a	b
750 800	8	40
1000	8	50

