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上海超时电子电器有限公司

Shanghai Chaoshi Electronic & Electrical Equipment Co., Ltd.

26年专注于电子电器保护器的设计生产

Focusing on the design and production of electronic power protectors for over 26 years



关于我们 About Us

上海超时电子电器有限公司于1993年在中国上海注册成立。本公司一直专注于专业设计和生产通用型的电子电器保护器和专用配套电子产品，应用的领域包括电梯、机床、空调、压缩机、冰柜、冷冻机、水泵、起重机械、建筑机械等行业中所配用电动机、电器控制设备及其它三相用电电器的保护。

公司主要生产和开发单相、三相三线、三相四线、三相五线交流电压保护器、三相交流变频电压保护、PTC热保护器、电源保护模块、三相及单相过电流保护装置等产品。本公司的产品性能稳定，安全可靠，跨行业，适应性强，配套能力强。

本公司为中国电梯协会以及中国制冷学会会员。公司部分产品具有CCC认证和CE认证，并且设计生产的产品拥有100%的自主知识产权，部分产品具有国家专利。

上海超时电子电器有限公司秉持着“**品质铸就成功，创新决定优势**”的宗旨，为广大企业用户提供专业优质的解决方案和产品配套服务。

单相交流保护

01 单相二线交流电压保护器 ABJ2-71W【技术型】

特点

- ◆ 型号选择：延时输出、恢复延时、开机延时；过欠压值分类
- ◆ LED指示灯形式具有中国实用新型专利证书
- ◆ 保护功能：过电压&欠电压保护
- ◆ 继电器触点输出

尺寸

- ◆ 61 (长)×20.5(宽)×73 (高) mm



02 单相二线交流电压变送保护器 ABJ2-72W、ABJ2-73W【技术型】

特点

- ◆ 故障信号输出形式为通用变送电信号
- ◆ 浮地设计使变送信号输出可以与PLC直连

功能

- ◆ 保护功能：过电压&欠电压保护
- ◆ 继电器触点输出

尺寸

- ◆ 61 (长)×20.5(宽)×73 (高) mm



03 单相三线交流漏电驱动保护器 ABJ2-74W【技术型】

特点

- ◆ 为时下日渐普及的新能源车特别研发，是充电桩的守护天使
- ◆ 与漏电保护器配合使用，保护线路简单
- ◆ 有蜂鸣器报警功能
- ◆ LED指示灯形式具有中国实用新型专利证书
- ◆ 漏电驱动形式具有一项中国发明专利

功能

- ◆ 保护功能：过电压&欠电压保护、超压保护、缺零线；零线带电保护、地线正常指示
- ◆ 直接驱动漏电保护开关动作和报警指示
- ◆ 有直接驱动漏电保护器型号和附带继电器触点输出型号

尺寸

- ◆ 61 (长)×20.5(宽)×73 (高) mm



04 电逸保 ABJ2-75W/ABJ2-75V【技术型】

特点

- ◆ 无需安装，配合漏电保护器使用，可直接插入家中任一正常带电的插座；小巧轻盈，可随身携带
- ◆ 保护电压设定精度高、实用性强；额定保护电压值的设定有三档可选

功能

- ◆ 家庭用电安全隐患的预防
- ◆ 农村用电的远距离多负载保护
- ◆ 家庭装修接线检测、电压检测
- ◆ 汽车充电桩的全方位电压监控

尺寸

- ◆ 68 (长)×63(宽)×46 (高) mm

(更多产品详情请见：www.chaoshi18.com/dianyibao)



三相交流保护

01

三相三线交流电压保护器 ABJ2-12W/14W【技术型】

特点

- ◆ 用于三相三线的保护；体积小；功能齐全；耐高温、低功耗；故障灯显示清晰；接线方便、安装方便、可靠性高；技术指标高、参数和精度一致性高；二组和一组触点输出形式。

功能

- ◆ 保护功能：过电压、欠电压、相序、动态断相、静态断相、电压不平衡保护；
- ◆ 延时功能：延时输出、延时恢复、开机延时。

外形尺寸

- ◆ 61 (长)×20.5(宽)×73 (高) mm

02

三相三线交流保护继电器 ABJ2-12WG【通用型】

特点

- ◆ 适用于替换传统的通用型XJ3系列，ABJ1-12W或同类进口及国产相序保护器
- ◆ 优质优价，革新换代
- ◆ 体积小巧，安装便捷
- ◆ 耐高温，低功耗
- ◆ 二组和一组触点输出形式

功能

- ◆ 相序保护
- ◆ 动态断相保护
- ◆ 静态断相保护
- ◆ 三相电压不平衡保护
- ◆ 延时保护：延时输出

外形尺寸

- ◆ 61 (长)×20.5(宽)×73 (高) mm

03 三相三线交流电压保护器 ABJ2-24W【技术型】

特点

◆ 用于三相交流变频电压环境（如变频VVVF电梯或中频电炉）或三相三线交流电压保护；工作电源为低压12V或24V，交直流通用；取电方便；在供电环境差的电网中具有适应非正常波形和抗脉冲抗载波的能力；采用浮地和隔离技术；耐高压、耐高频、耐脉冲；保护检测点可以任意放置在开关接点前段或后端，如交流接触器的前端或后端；工作电源上电后，触点控制输出方案可选：开机吸合（默认）或不吸合（三相上电正常后吸合）。

功能

◆ 保护功能：过电压、欠电压、相序、动态断相、静态断相、电压不平衡保护
◆ 延时功能：延时输出、延时恢复、开机延时

外形尺寸

◆ 61 (长)×20.5(宽)×73 (高) mm



04 三相四线交流电压保护器 ABJ2-02W/04W【技术型】

特点

◆ 缺零线保护；故障显示清晰；功能稳定可靠。

功能

◆ 保护功能：过电压、欠电压、相序、动态断相、静态断相、电压不平衡保护、缺零线保护、零线带电保护、零线超压保护。
◆ 延时功能：延时输出、延时恢复、开机延时。

外形尺寸

◆ 61 (长)×20.5(宽)×73 (高) mm



05 三相五线交流电压保护器 ABJ2-92W/94W【技术型】

特点

◆ 缺零线保护、缺地线指示；故障显示清晰；功能稳定可靠；用于三相四线保护时零线和地线可以短接，通用性好。

功能

◆ 保护功能：过电压、欠电压、相序、动态断相、静态断相、电压不平衡保护、缺零线保护、零线带电保护、零线超压保护、地线正常指示。
◆ 延时功能：延时输出、延时恢复、开机延时。

外形尺寸

◆ 61 (长)×20.5(宽)×73 (高) mm



06 三相三线交流电压保护器（变送器） ABJ2-34W/44W【技术型】

特点

- ◆ 用于三相三线的保护和信号变送；输出形式：通用变送电信号4~20mA；恒压恒流源设计适合远距离信号传输；变送信号输出可以与PLC直连，并保留传统的继电器触点同步输出；故障处理方式由接收变送信号的PLC设定，如：断相、恢复延时、故障锁定等。

功能

- ◆ 保护功能：过电压、欠电压、相序、动态断相、静态断相、电压不平衡保护。
- ◆ 故障信号输出为通用变送电信号；工作电压：24VDC/VAC。

外形尺寸

- ◆ 61 (长)×20.5(宽)×73 (高) mm



07 三相三线交流电压保护器（变送器） ABJ2-54W/64W【技术型】

特点

- ◆ 用于三相三线的保护和电压信号变送；输出形式：通用变送电信号4~20mA；恒压恒流源设计适合远距离信号传输；变送信号输出可以与PLC直连，并保留传统的继电器触点同步输出；故障处理方式由接收变送信号的PLC设定，如：断相、恢复延时、故障锁定等；采用电压跟随技术采集电压值并输出通用变送信号供PLC设定电压保护值和故障保护方式。

功能

- ◆ 保护功能：相序、动态断相、静态断相、电压不平衡保护。
- ◆ 过欠电压保护由PLC根据变送电信号自主设定。

外形尺寸

- ◆ 61 (长)×20.5(宽)×73 (高) mm



08 三相五线交流漏电驱动保护器 ABJ2-82W【技术型】

特点

- ◆ 驱动漏电保护开关动作或报警

功能

- ◆ 保护功能：相序、动态断相、静态断相、电压不平衡保护、缺零线保护、零线带电保护、零线超压保护、地线正常指示、缺地线报警

外形尺寸

- ◆ 61 (长)×20.5(宽)×73 (高) mm



09 ABJ3系列三相交流保护继电器【专业型】

保护功能

- ◆ 输入端保护功能：过电压、欠电压、相序、动态断相、静态断相、错相、电压不平衡保护
- ◆ 负载端保护功能：动态断相保护、静态断相保护、电压不平衡保护
- ◆ 延时功能：延时输出，延时恢复，开机延时

外形尺寸

- ◆ 88 (长)×33 (宽)×68 (高) mm



输入电压范围宽

调节电压范围宽

额定电压范围宽

实时电压可视

电压设定可视

故障类型可视

参数失电储存

产品
特点

技术
特点

可视可调

设计原理新颖

性能可靠

抗电压波动

抗干扰能力强

接线安装方便可靠

故障显示清晰

10

ABJ4系列三相交流保护继电器【专业型】

ABJ4电流保护和电压保护功能可以对成套系统进行电压保护，对负载进行电流保护，并对负载端主电路进行电流不平衡保护（如接触器、断路器触点故障造成的电流不平衡）。

选择由附加电源供电的保护器，电流保护功能适用于三相变频负载保护。

保护功能

- ◆ 电压输入端保护功能：过电压、欠电压、相序、动态断相、静态断相、错相、电压不平衡保护
- ◆ 电流保护端保护功能：过电流保护、电流不平衡保护
- ◆ 电压保护功能：延时输出，延时恢复，开机延时
- ◆ 电流保护功能：模拟热继电器保护时间输出

外形尺寸

- ◆ 88 (长)×33 (宽)×68 (高) mm



可视可调

设计原理新颖

性能可靠

抗电压波动

抗干扰能力强

接线安装方便可靠

故障显示清晰

调节电流范围宽

额定电压范围宽

实时电压和电流可视

电流设定可视

故障类型可视

参数失电储存

产品
特点

技术
特点



11 三相三线交流电压保护器 ABJ1系列 & ABJ1-W系列【技术型】

特点

- ◆ ABJ1系列中有负载端保护功能的型号
- ◆ ABJ1-W为微型系列

功能

- ◆ 保护功能：过电压、欠电压、相序、动态断相、静态断相、电压不平衡保护
- ◆ 延时功能：延时输出、延时恢复、开机延时

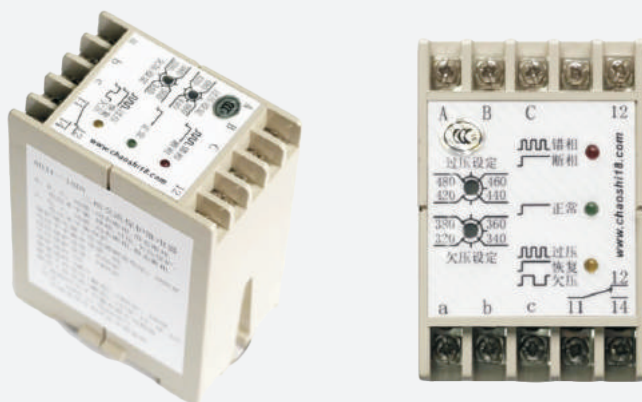
外形尺寸

- ◆ ABJ1：74 (长)×49 (宽)× 102 (高) mm
- ◆ ABJ1-W：56.5 (长)×30.5(宽)× 72.5 (高) mm

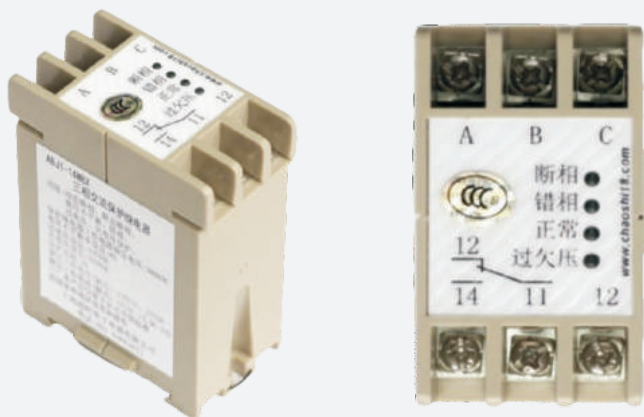
型号选择

- ◆ ABJ1系列：ABJ1-12/122/14/16/18AY/18BY/18BH/18DY/
18DH/18DX/18FH/18FY/18GH/18GY/18GX
- ◆ ABJ1-W系列：ABJ1-12WX/12WY/14WX/14WY

ABJ1系列



ABJ1-W系列



上海超时电子 相序保护继电器系列参数对比

系列	ABJ2通用型	ABJ2技术型	ABJ1-W技术型	ABJ1技术型	ABJ3专业型	ABJ4专业型
						
错相	●	●	●	●	●	●
动态&静态断相保护	●	●	●	●	●	●
过欠压保护		●	●	●	●	●
过电流保护						●
负载端检测				●	●	
电压可调				●	●	
电流可调						●
电压显示					●	●
电流显示						●
电流不平衡保护						●
电压不平衡保护	●	●	●	●	●	●
延时功能		●	●	●	●	●

PTC热保护器

ABR-W系列【通用型】

特点

- ◆ 体积小
- ◆ 输入工作电压有交直流（12V），交流（36V/220V）或交直流（24V）多种选择

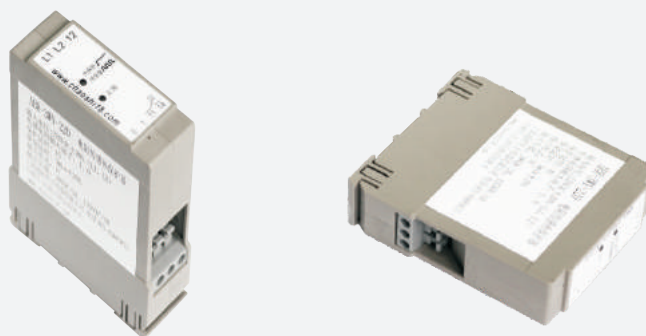
功能

- ◆ 应用于带有PTC热敏电阻电动机的过热保护
- ◆ 延时功能：延时输出，延时恢复，开机延时

尺寸

- ◆ 61 (长)×20.5(宽)×73 (高) mm

ABR-W系列



压缩机电源保护模块

ABJR系列【通用型】

特点

- ◆ 用于压缩机接线盒三相三线保护；功能全、耐高温、低功耗；故障灯显示清晰；安装方便、螺钉防掉设计；通用变送信号输出（2~28mA）；可以直接与PLC连接；同一个产品上有220VAC和24VAC/VDC工作电压可选接；选用低电压工作电源安全可靠（推荐24VAC）。

功能

- ◆ 保护功能：过电压、欠电压、相序、动态断相、静态断相、电压不平衡保护、PTC热保护
- ◆ 延时功能：延时输出，延时恢复，开机延时

外形尺寸

- ◆ 82(长)×78(宽)×35.5 (高) mm

型号选择

- ◆ 交流电源ABJR-□□-220
- ◆ 交直流电源ABJR-□□-220/24
- ◆ 直流电源ABJR-□□-24

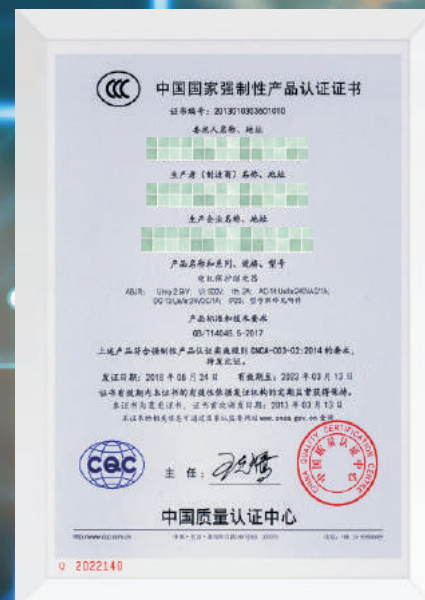
ABJR系列



产品专利证书



CCC认证证书



ABJR



About Us

Shanghai Chaoshi Electronic & Electrical Equipment Co., Ltd. was established in Shanghai, China in 1993. This company has been consistently focusing on the specialized design and the production of general-purpose electronic protectors and special-use sets of electronic products. Areas of application include the protection of electromotors and other three-phase electrical equipment in business such as elevators, machine tools, air conditioners, compressors, refrigerators, freezers, water pumps, heavy-lifting machines, and construction machinery.

The company mainly produces and develops products include but not limited to: single-phase, three-phase three-wire, three-phase four-wire, and three-phase five-wire AC voltage protectors, three-phase AC variable-frequency voltage protectors; PTC thermal protectors; power protection modules; three-phase and single-phase overcurrent protection devices. Our company's products are of outstanding quality, high stability, and great cross-industry adaptability.

This company is a member of the *China Elevator Association*, as well as the *Chinese Association of Refrigeration*. Some of the company's products have CCC certification and CE certification, and the products that are designed and produced have 100% independent intellectual property rights. Some of the products have national patents.

Shanghai Chaoshi Electronic & Electrical Equipment Co., Ltd. always strives to keep with its mission statement of "Quality creates success; innovation wins predominance", for the purpose of providing professional solutions and high-quality auxiliary services to our customers.

Single-Phase AC Protection

01 Single-Phase Two-Wire AC Voltage Transmitter ABJ2-72W, ABJ2-73W (Technology-based)

Features

- ◆ Faults are output in the form of electric signals sent by general-purpose transmitter.
- ◆ The float ground is designed to directly connect the outputs of transmitted signals to the PLC.

Functions

- ◆ Protective functions: Overvoltage and undervoltage protection
- ◆ Output from relay contacts

Dimensions

- ◆ 61 (L) x 20.5 (W) x 73 (H) mm



02 Single-Phase Two-Wire AC Voltage Protector ABJ2-71W (Technology-based)

Features

- ◆ Model selection: delay output, delay recovery, power-on delay; classification of over- and undervoltage values
- ◆ The display form of LED indicator lights owns a Chinese utility model patent.
- ◆ The leakage driving type owns a Chinese invention patent as well as a Chinese utility model patent.

Function

- ◆ Protective functions: Overvoltage & undervoltage protection
- ◆ Output from relay contacts

Dimensions

- ◆ 61 (L) x 20.5 (W) x 73 (H) mm



03 Driver for Single-Phase Three-Wire AC Leakage Protector ABJ2-74W (Technology-based)

Features

- ◆ Specially researched and developed for charging piles of new energy vehicles, that are currently becoming more widespread.
- ◆ Used in conjunction with leakage protectors; Makes the protection circuit much simpler.
- ◆ Has buzzer alarm function
- ◆ The display form of LED indicator lights owns a Chinese utility model patent.
- ◆ The leakage driving type owns a Chinese invention patent.

Functions

- ◆ Protective Functions: Overvoltage & undervoltage protections, supervoltage protection, loss of zero line protection; when electrification of zero line is protected, the ground wire functions and indicates normally.
- ◆ Directly drives the leakage protection switch to operate and to make alarm indications.
- ◆ Model selection: model that directly drives the leakage protector; model that comes with outputs from relay contacts and a function switch

Dimensions

- ◆ 61 (L) x 20.5 (W) x 73 (H) mm



04 (Plug-in) Driver for Single-phase AC Leakage Protector (a.k.a. EZ Power Protector) (Technology-based)

Features

- ◆ More reasonable protection method of resetting the circuit manually based on one's own discretion.
- ◆ No installation needed; can directly be plugged into any socket at home, on a charging pile, or into an irrigation system in the fields; Small, light, and portable.
- ◆ More precise and more practical set values of voltage protection; three sets of rated voltage values to choose from

Functions

- ◆ The prevention of hidden dangers in home electricity usage.
- ◆ Long-distance multiload protection for electricity usage in rural areas.
- ◆ Examination of voltage and wiring in household renovation.
- ◆ Omnidirectional voltage monitoring for charging piles of electric vehicles

Dimensions

- ◆ 68 (L) x 63 (W) x 46 (H) mm

(For more details of the model, please check out:
https://www.chaoshi18.com/dianyibao?_l=en)



Three-Phase AC Protection

01 Three-Phase Three-Wire AC Voltage Protector ABJ2-12W/14W (Technology-based)

Features

- ◆ High temperature resistance; low power consumption; small Dimensions and light weight; high temperature resistance; low power consumption; clear display of the indicator lights when malfunctions happen; convenient wiring and installation; high-standard technical indexes; high consistency and precision of the parameters; output forms from two groups of contacts or one group of contacts.

Functions

- ◆ Protective functions: overvoltage, undervoltage, phase sequence, dynamic phase loss, static phase loss, voltage unbalance protection.
- ◆ Time delay functions: delay output, delay recovery, power-on delay.

Dimensions

- ◆ 61 (L) x 20.5 (W) x 73 (H) mm

02 Three-phase three-wire AC Protection Relay ABJ1-12WG (General-purpose)

Features

- ◆ Suitable for use as a replacement for general-purpose XJ3 series, ABJ1-12W, or similar imported and domestic phase sequence protectors.
- ◆ A next-generation innovation with excellent quality at a good price
- ◆ Compact size; convenient installation
- ◆ Great heat resistance; low power consumption
- ◆ Two sets and one set of output contacts

Functions

- ◆ Phase sequence protection
- ◆ Dynamic phase loss protection
- ◆ Static phase loss protection
- ◆ Three-phase voltage unbalance protection
- ◆ Time delay function: Delay output

Dimensions

- ◆ 61 (L) x 20.5 (W) x 73 (H) mm



03 Three-Phase Three-Wire AC Voltage Protector ABJ2-24W (Technology-based)

Features

♦ Used in three-phase AC variable-frequency voltage environment (such as in a variable-frequency VVVF elevator or in a medium frequency furnace) or for three-phase three-wire AC voltage protection; power supply: low voltage 12V or 24V, applicable for both AC and DC; taking electricity is convenient; has great adaptability to abnormal wave form, anti-pulse capability, and anti-carrier capability in a power grid with a poor power supply; uses float ground design and isolation technology; resistant to high pressure, high frequencies, and pulse; protection check points can be placed either at the front end or the back end of switch contacts, such as the front end or the back end of AC contactors; after the power supply is power-on, there are two options for the outputs of the relay contacts: power-on suction (default) or non-suction (closes normally after the three-phase circuit is power-on)

Functions

♦ Protective functions: overvoltage, undervoltage, phase sequence, dynamic phase loss, static phase loss, voltage unbalance protection.
♦ Time delay functions: delay output, delay recovery, power-on delay .

Dimensions

♦ 61 (L) x 20.5 (W) x 73 (H) mm



04 Three-Phase Four-Wire AC Voltage Protector ABJ2-02W/04W (Technology-based)

Features

♦ Protection for loss of zero line; clear display for malfunctions; stable and reliable protections.

Functions

♦ Protective functions: overvoltage, undervoltage, phase sequence, dynamic phase loss, static phase loss, voltage unbalance protection; protection against loss of zero line, electrification of zero line, supervoltage of zero line.
♦ Time delay functions: delay output, delay recovery, power-on delay .

Dimensions

♦ 61 (L) x 20.5 (W) x 73 (H) mm



05 Three-Phase Five-Wire AC Voltage Protector ABJ2-92W/94W (Technology-based)

Features

♦ Protection for loss of zero line; indication for loss of ground wire; clear displays for malfunctions; stable and reliable protections; the zero line and the ground wire can be spliced when used for three-phase four-wire protection; highly optimized for general use .

Functions

♦ Protective functions: overvoltage, undervoltage, phase sequence, dynamic phase loss, static phase loss, voltage unbalance, loss of zero line, electrification of zero line, supervoltage of zero line; the ground wire indicates as normal.
♦ Time delay functions: delay output, delay recovery, power-on delay .

Dimensions

♦ 61 (L) x 20.5 (W) x 73 (H) mm



06 Three-Phase Three-Wire AC Voltage Protector (Transmitter) ABJ2-34W/44W (Technology-based)

Features

◆ Used for three-phase-three-wire protection and signal transmission; output form: general-purpose electric transmission signal 4~20mA; constant voltage & constant current source design is suitable for long-distance signal transmission; output of transmission signals can be directly connected to PLC, and sync output from the relay contacts are retained; treatments for malfunctions are set by the PLC, which receives transmission signals, such as: phase loss, delay recovery, fault lock, etc.

Functions

◆ Protective functions: overvoltage, undervoltage, phase sequence, dynamic phase loss, static phase loss, voltage unbalance.
◆ Outputs of malfunction signals are general-purpose electric transmission signals; working voltage: 24VDC/VAC.

Dimensions

◆ 61 (L) x 20.5 (W) x 73 (H) mm



07 Three-Phase Three-Wire AC Voltage Protector (Transmitter) ABJ2-54W/64W (Technology-based)

Features

◆ Used for three-phase-three-wire protection and signal transmission; output form: general-purpose electric transmission signal 4~20mA; constant voltage & constant current source design is suitable for long-distance signal transmission; output of transmission signals can be directly connected to PLC, and sync output from the relay contacts are retained; treatments for malfunctions are set by the PLC, which receives transmission signals, such as: phase loss, delay recovery, fault lock, etc; uses voltage-following technology to collect voltage values; outputs general-purpose transmission signals for the PLC to set the voltage protection values and the protection methods for malfunctions.

Functions

◆ Protective functions: phase sequence, dynamic phase loss, static phase loss, voltage unbalance.
◆ Over- and undervoltage protection is independently set by the PLC according to the electric transmission signals.

Dimensions

◆ 61 (L) x 20.5 (W) x 73 (H) mm



08 Driver for Three-Phase Five-Wire AC Leakage Protector ABJ2-82W (Technology-based)

Features

◆ Drives the leakage protection switch to operate and alarm.

Functions

◆ Protective functions: phase sequence, dynamic phase loss, static phase loss, voltage unbalance, loss of zero line, electrification of zero line, supervoltage of zero line; the ground wire indicates as normal; fault alarm when loss of ground wire.

Dimensions

◆ 61 (L) x 20.5 (W) x 73 (H) mm



09 Three-phase AC Protection Relay

ABJ3 Series (Professional)

Functions

- ◆ Protective functions on the input end: overvoltage, undervoltage, phase sequence, dynamic phase loss, static phase loss, phase dislocation, voltage unbalance protection.
- ◆ Protective functions on the output end: dynamic phase loss, static phase loss, voltage unbalance protection.
- ◆ Time delay functions: delay output, delay recovery, power-on delay.

Dimensions

- ◆ 88 (L)×33 (W)×68 (H) mm



Visible and adjustable

Innovative design principles

Reliable performance

Resistant to voltage fluctuations

Strong anti-interference ability

Convenient and reliable wiring installation

Clear fault display

**Product
Features**

**Technical
features**

Wide range of input voltage

Wide range of adjustable voltage

Wide range of rated voltage

Visible real-time voltage

Visible voltage setting

Visible fault types

When the protector is power off, data will be automatically stored.

10 Three-phase AC Protection Relay ABJ4 Series (Professional)

The current protection functions and the voltage protection functions of ABJ4 Protection Relay can protect the voltage of the whole system and protect the current of the load. It can also protect the load end of the main circuit from current unbalance (such as current unbalance caused by contact faults of the contactor or the circuit breaker).

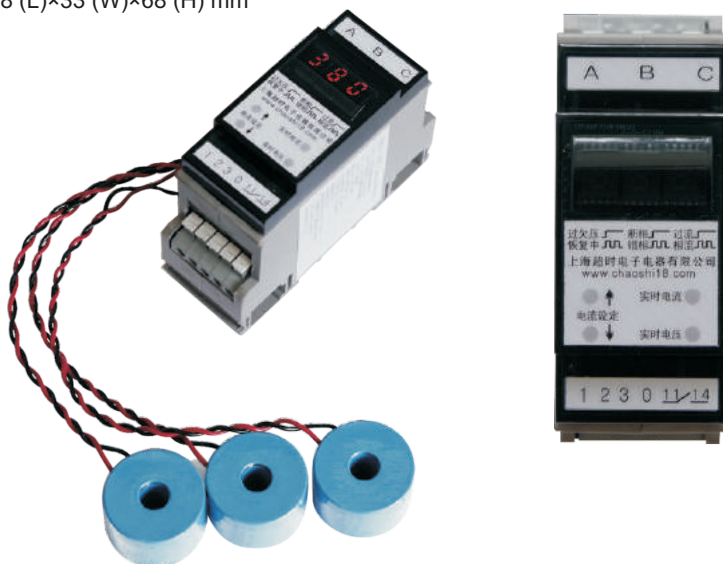
The current protection functions are applicable to three-phase variable-frequency load protection, if you choose a model that comes with an additional power supply.

Functions

- ◆Protective functions on the voltage input end: overvoltage, undervoltage, phase sequence, dynamic phase loss, static phase loss, phase dislocation, voltage unbalance protection
- ◆Protective functions on the current protection end: overcurrent protection, current unbalance protection
- ◆Voltage protection: delay output, delay recovery, power-on delay
- ◆Current protection: simulates the output of protection time of thermal relays

Dimensions

- ◆ 88 (L)×33 (W)×68 (H) mm



Visible and adjustable

Innovative design principles

Reliable performance

Resistant to voltage fluctuations

Strong anti-interference ability

Convenient and reliable wiring installation

Clear fault display

Product
Features

Technical
features

Wide range of adjustable current

Wide range of rated voltage

Visible real-time voltage & real-time current

Visible current setting

Visible fault types

When the protector is power off, data will be automatically stored.



11

Three-Phase Three-Wire AC Voltage Protector ABJ1 Series & ABJ1-W Series (Technology-based)

Features

- ◆ Some models in the ABJ1 series have protection functions for the load end.
- ◆ ABJ1-W is the miniature version of ABJ1 series.

Functions

- ◆ Protective functions: overvoltage, undervoltage, phase sequence, dynamic phase loss, static phase loss, voltage unbalance.
- ◆ Time delay functions: delay output, delay recovery, power-on delay.

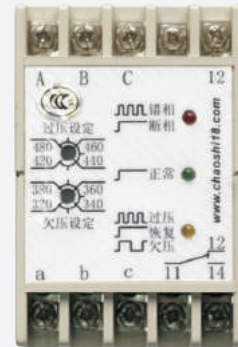
Dimensions

- ◆ ABJ1: 74 (L) x 49 (W) x 102 (H) mm
- ◆ ABJ1-W: 56.5 (L) x 30.5 (W) x 72.5 (H) mm

Model Selection

- ◆ ABJ1 Series: ABJ1-12/122/14/16/18AY/18BY/18BH/18DY/
18DH/18DX/18FH/18FY/18GH/18GY/18GX
- ◆ ABJ1-W Series: ABJ1-12WX/12WY/14WX/14WY



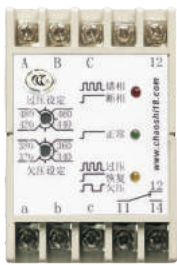



ABJ1 Series



ABJ1-W Series



Comparisons of Shanghai Chaoshi's Protection Relay Series

Series	General-purpose ABJ2 Series	Technology-based ABJ2 Series	Technology-based ABJ1-W Series	Technology-based ABJ1 Series	Professional ABJ3 Series	Professional ABJ4 Series
						
Phase Dislocation Protection	●	●	●	●	●	●
Dynamic & Static Phase loss protection	●	●	●	●	●	●
Overvoltage & Undervoltage Protection		●	●	●	●	●
Overcurrent Protection						●
Load Detection				●	●	
Adjustable Voltage				●	●	
Adjustable Current						●
Visible Voltage Setting					●	●
Visible Current Setting						●
Current Unbalance Protection						●
Voltage Unbalance Protection	●	●	●	●	●	●
Time Delay Functions		●	●	●	●	●

PTC Thermal Protector

ABR-W Series (General-purpose)

Features

- ◆ Small size
- ◆ Operating input voltage has multiple options: AC-DC (12V), AC (36V/220V) or AC-DC (24V)

Functions

- ◆ Applicable to overheating protection with a PTC thermistor motor.
- ◆ Time delay functions: delay output, delay recovery, power-on delay .

Dimensions

- ◆ 61 (L) x 20.5 (W) x 73 (H) mm

ABR-W Series



Power Protection Modules for Compressors

ABJR Series (General-purpose)

Features

- ◆ Used for the protection of three-phase-three-wire terminal box in compressors; great versatility; high temperature resistance; low power consumption; clear displays of the fault lights; convenient installation; anti-drop design for the screws; outputs of universal transmission signals (2~28mA); can be directly connected to PLC; either 220VAC or 24VAC/VDC of working voltage can be connected to the same product; safer and more reliable to use a low-voltage working power supply (24VAC is recommended).

Functions

- ◆ Protective functions: overvoltage, undervoltage, phase sequence, dynamic phase loss, static phase loss, voltage unbalance, PTC thermal protection.
- ◆ Time delay functions: delay output, delay recovery, power-on delay .

Dimensions

- ◆ 82 (L) x 78 (W) x 35.5 (H) mm

Model Selection

- ◆ AC power supply: ABJR-□□-220
- ◆ AC-DC power supply: ABJR-□□-220/24
- ◆ DC power supply: ABJR-□□-24

ABJR Series



Patent Certificates



Chinese Invention Patent



Chinese Utility Model Patent

Certificates For China Compulsory Product Certification



ABJ1



ABJ1-W



ABJR