

电气防火短路灭弧保护器

(HXTK-V303-1)——三相（380V）产品使用说明

Electric fire-proof short-circuit arc-extinguishing protector

(HXTK-V303-1)--Three-phase (380V)

Product usage instructions



广东省珩祥安全科技有限公司

Guangdong Province Hengxiang Security Technology Co., Ltd

感谢您使用我公司的电气防火短路灭弧保护器(HXTK-V303-1),为了确保人身系统安全,并使产品得到最佳性能,在产品安装,使用和维修前,使用前请您务必仔细阅读以便安全使用,希望您通过本用户手册,清楚方便的了解产品的使用,特别是警告和注意事项。

Thank you for using our company's electrical fire-proof short-circuit arc-extinguishing protector (HXTK-V303-1). In order to ensure the safety of personal system and make the product get the best performance, please read it carefully before installation, use and maintenance of the product for safe use. I hope you can understand the use of the product clearly and conveniently through this user manual, especially the warnings and precautions.

产品名称 Product Name

电气防火短路灭弧保护器

Electric fire-proof short-circuit arc-extinguishing protector

产品型号 Product type

HXTK-V303-1 三相(380V)

HXTK-V303-1 3-phase (380V)

工作电压 Operating voltage

AC 380V 50Hz

产品规格 Product Specifications

63A、80A、100A

产品功能：

Product Features:

1. 微秒级短路限流保护功能，产品能实时检测用电线路电流，一旦发生短路故障，能在 150 微秒内实现快速限流保护，避免短路点出现危险火花，具有电气灭弧功能，有效抑制因短路电流过大所引起的电气火灾危害。

Microsecond short-circuit current limiting protection, the product can detect the current of the power line in real time, once a short-circuit fault occurs, it can achieve rapid current limiting protection within 150 microseconds to avoid dangerous sparks at the short-circuit point, with electrical arc extinguishing function, effectively inhibit the electrical fire hazard caused by excessive short-circuit current.

2. 当被保护线路的电流超过额定电流处于过载状态、且过载持续时间超过设定时间（3-60 秒）时，保护器即可执行过载报警与限流保护。

When the current of the protected line exceeds the rated current and is in an overload condition, and the duration of the overload exceeds the set time (3-60 seconds), the protector can execute an overload alarm and current limit protection.

3. 当保护器工作环境温度或机内元件温度超过所设定温度值时，保护器即可执行超温保护功能。

When the temperature of the working environment or the temperature of the components inside the protector exceeds the set temperature value, the protector can perform the over-temperature protection function.

4. 保护器执行限流保护时，能发出声光报警指示。

When the protector executes current limit protection, it can issue an acoustic and optical alarm indication.

5. 漏电保护功能当电路中出现漏电故障时能够快速实现限流保护功能。

Leakage protection function enables rapid current limiting protection in the event of a leakage fault in the circuit.

6. 保护器内置有线 RS-485 接口，可以将多台保护器与计算机联网，通过监控云平台实时监控、统计查询与追溯，可使用手机 APP 实现远程监控，能够提升智慧消防监控平台的安全管理。

The built-in wired RS-485 interface of the protector allows multiple protectors to be

networked with computers for real-time monitoring, statistical enquiry and tracing through the monitoring cloud platform, and remote monitoring can be achieved using the mobile phone APP, which can enhance the safety management of the intelligent fire monitoring platform.

产品应用场所 Product application sites:

本产品可适用于各种用电场所，如学校、医院、寺庙、会展、宾馆、娱乐场所、商场、住宅、仓库、电动车充电站及工厂等。此产品亦可向石油、化工、汽车、轮船、航空等领域作电气防火的延伸开发。

This product can be used in various electrical places such as schools, hospitals, temples, conventions, hotels, entertainment venues, shopping malls, houses, warehouses, electric vehicle charging stations and factories. This product can also be extended to petroleum, chemical, automobile, ship, aviation and other fields for the development of electrical fire protection.

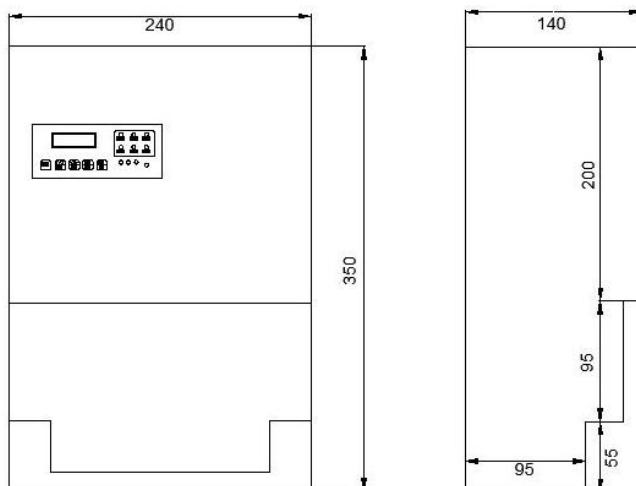
产品外观及尺寸 Product appearance and dimensions:

外形尺寸：240（L）*350（W）*140（H）

Overall dimensions: 240(L)*350(W)*140(H)

HXTK-V303-1 三相（380V） 电气防火短路灭弧保护器（额定电流 60A-100A）

HXTK-V303-1 three-phase (380V) Electric fire-proof short-circuit arc-extinguishing protector (rated current 60A-100A)



产品重量

Product weight

HXDB02-XL100 毛重： 9KG 净重： 8.3KG

HXDB02-XL100 Gross Weight: 9KG Net Weight: 8.3KG

产品基本功能：

Basic product features:

1. 实时监测：

Real-time monitoring:

电气防火限流式保护器能够实时监测三相受控回路短路电流、电压、电流、频率、温度、剩余电流、遥信状态并显示。

The electrical fire protection current limiting protector is capable of monitoring and displaying in real time the short-circuit current, voltage, current, frequency, temperature, residual current and telemetered status of the three-phase controlled circuit.

2. 报警保护功能：

Alarm protection function:

电气防火限流式保护器在探测到短路、用电数据越限时，发出声光信号报警，能以微秒级时间进行限流保护，以保证安全用电。

When the electric fire-proof current-limiting protector detects a short circuit and the power consumption data exceeds the limit, it sends out an acousto-optic signal to give an alarm, which can perform current-limiting protection in microsecond time to ensure the safe use of electricity.

3. 故障提示功能：

Fault indication function:

电气防火限流式保护器在检测到自身故障，如温度传感器探头故障时发出声光信号，以提醒用户进行检修。

The electrical fire protection current limiting protector emits an audible and visual

signal when it detects a fault of its own, such as a temperature sensor probe failure, to alert the user for servicing.

4. 通讯功能:

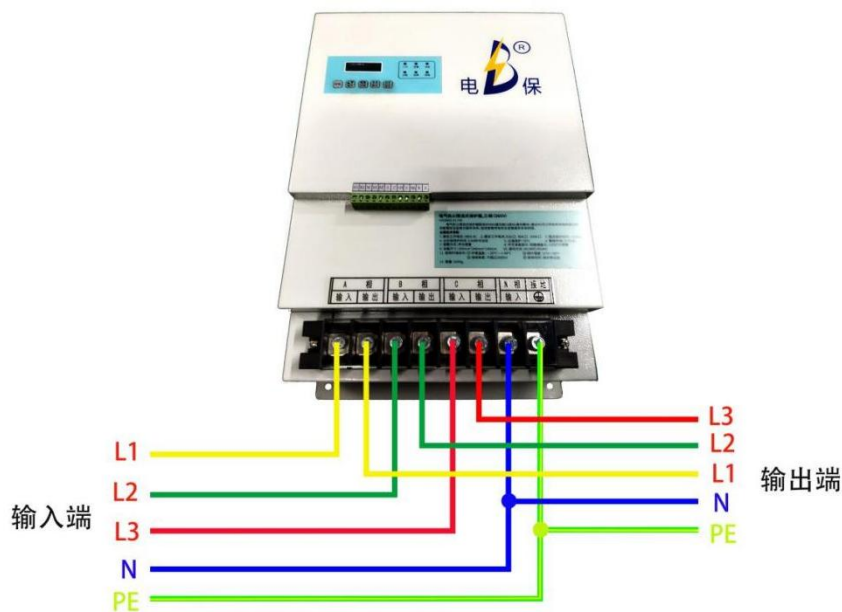
Communication functions:

电气防火限流式保护器配有 RS485 通讯接口或 4G 通讯模块。通过 4G 可以将各种用电数据远传到智慧安全监管云服务系统，组成智慧用电安全监管服务系统网络。

The electrical fire protection current limiting protector is equipped with an RS485 communication interface or a 4G communication module. Through 4G, various electricity consumption data can be transmitted to the intelligent safety supervision cloud service system, forming a network of intelligent electricity consumption safety supervision service system.

产品接线图:

Product wiring diagram:



接线端子说明 Wiring terminal description:

进线 A、B、C：分别接三相 ABC 输入

Inputs A, B and C: connected to the three-phase ABC input respectively

出线 A、B、C：分别接三相 ABC 输出

Outgoing A, B, C: connected to 3-phase ABC output respectively

N：接零线

N: connect to zero wire

接地线需要接入 PE 地线

Earth wire needs to be connected to PE ground

A、B：RS485 总线（如启用 4G 功能，则此路失效）

A, B: RS485 bus (if 4G function is enabled, this circuit is disabled)

DQ、G、+5V：外接温度传感器输入接口

DQ, G, +5V: External temperature sensor input connector

I、I*：接剩余电流互感器输入

I, I*: Connection to residual current transformer input

DI、DI*：遥信输入

DI, DI*: Telematic input

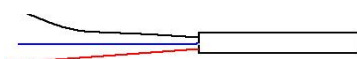
K1、K2：控制输出

K1, K2: Control outputs

本保护器已经内置温度传感器，另外可以选择配接一路外置温度传感器：

The protector already has a built-in temperature sensor and can optionally be equipped with an external temperature sensor:

本保护器已经内置温度传感器，另外可以选择配接一路外置温度传感器：



红线接+5V、黑线 G 、黄线接 DQ

Red wire to +5V, black wire G, yellow wire to DQ

特别注意：

Special attention:

保护器的分断保护采用的是非传统机械式开关触点，当电气防火限流式保护器处于限流保护状态时，其输出端仍有微弱输出，严禁带电操作其接线端子。如需进行下端检修，请务必断开其上端电源。

When the electrical fire protection current limiting protector is in the current limiting protection state, there is still a weak output at the output end and it is strictly forbidden to operate the terminals with electricity. If the lower end is to be serviced, the upper end must be disconnected from the power supply.

当由于环境温度过高，或者使用场所散热不良时，电气防火限流式保护器可能由于温度过高而进行限流保护，此时需要等温度降到合适范围，保护器才能工作。因此，请确保使用场合散热通风良好。

When the ambient temperature is too high, or the place of use is not well ventilated, the electrical fire protection current limiting protector may be too high and the current limiting protector may not operate until the temperature has dropped to a suitable range. For this reason, please ensure that the place of use is well ventilated.

数据通信与联网运行：

Data communication and network operation:

本产品可以单机独立运行，也能通过与专用网关连接联网运行。内置通信接口

RS-485 串行总线连接到监控电脑上，可以与智慧消防监控系统联机，用户可以在电脑上进行实时查询、故障追溯、远程监控等，也可以使用手机 APP，实现远程移动监控、报警。有关监控电脑联网专用软件的使用，可以参照本公司联网监控软件的使用说明。

This product can be run independently on a stand-alone basis or through a networked operation connected to a dedicated gateway. The built-in communication interface RS-485 serial bus is connected to the monitoring computer, which can be connected to the intelligent fire monitoring system. Users can make real-time enquiries, fault tracing and remote monitoring on the computer, or use the mobile phone APP to achieve remote mobile monitoring and alarming. For the use of the special software for monitoring computer networking, you can refer to the instructions for the use of our networking monitoring software.

用户可以通过显示屏上的菜单，对保护器工作参数进行设定，使之能满足用户的不同要求。

The user can set the operating parameters of the protector via the menu on the display so that it can meet the different requirements of the user.

产品安装与使用 **Product installation and use:**

1. 电气防火限流式保护器应安装在被保护范围的电源入口处。

The electric fire-proof current-limiting protector shall be installed at the power inlet of the protected area.

2. 本机使用螺钉安装于配电箱或配电柜内，墙壁安装时，需配用适当的箱体，并使本机面板露出箱外，或在箱体正面开设透声孔缝，以免警报声响被封闭。

The machine is mounted inside a distribution box or cabinet using screws, for wall mounting, a suitable box should be used and the panel of the machine should be exposed outside the box or a sound permeable slit should be opened on the front of the

box to avoid the alarm sound being closed.

3. 请确保安装箱体、场所通风良好，便于设备散热，安装场所应无严重影响保护器绝缘的气体、化学性沉淀物及其他易爆、易腐蚀性介质。

Please ensure that the installation box and place are well ventilated to facilitate heat dissipation of the equipment, and that the installation place is free from gases, chemical precipitates and other explosive and corrosive media that seriously affect the insulation of the protector.

4. 电气限流式保护器如采用 4G 通讯，请确保安装之处有足够强度的网络信号，否则请将天线引出到有网络信号的地方。

If the electrical current limiting protector uses 4G communication, please ensure that there is a strong enough network signal where it is installed, otherwise, please lead the antenna out to a place where there is a network signal.

5. 安装完毕后，接通电源，由专业人员设置好相应的参数，保护器即进入正常监测工作状态。

After installation, power on, set the corresponding parameters by professional personnel, the protector will enter the normal monitoring work state.

6. 电气防火限流式保护器必须停电安装，严禁带电操作接线端子。

The electric fire-proof current-limiting protector must be installed without power supply, and it is forbidden to operate the terminal with electricity.

7. 电气防火限流式保护器一般无需特殊保养和维护，仅需注意防水、防尘和通风散热即可。保护器内部安装有散热风扇，保护器自动检测机体内部的工作温度，实现智能化散热控制。保护器需定期进行一次通风口积灰检查，积灰严重的需要进行清洁，同时应注意检查风扇能否正常运转。

Electrical fire protection current-limiting protectors generally require no special maintenance and servicing, only attention to waterproofing, dustproofing and ventilation and heat dissipation. There is a cooling fan installed inside the protector, and the protector automatically detects the internal working temperature of the body to

achieve intelligent cooling control. The protector needs to be checked regularly for dust accumulation in the ventilation openings, and if the dust accumulation is serious, it needs to be cleaned.

8. 保护器使用时上电后，系统进入自检状态，当显示屏弹出主菜单，表示自检正常，产品处于正常工作状态。

When the protector is in use, the system enters a self-test state after power-up. When the main menu pops up on the display, it means that the self-test is normal and the product is in normal working condition.

9. 本产品内部带有交流电，严禁非专业人员擅自打开机壳。使用本产品的被保护电路，在发生过负荷、短路、漏电等故障而限流保护期间，尽管线路中电流被限制在数毫安，但仍有可能带有较高的交流电压，故不允许随意触碰用电线路的金属部分。当发生短路限流报警时，应断开所有的负载分路开关后，按下保护器的复位按钮进行复位，待保护器完成自检，正常供电后依次合上各分路开关。当合上某一分路开关时保护器再次发出限流报警，根据声光显示状态即可判断该分路故障的性质。此时应断开该分路开关，检查该分路电气线路，将故障排除之后，即可合上该分路开关供电。当某一分路发生过载故障报警时，应减少大功率负载，在不超过该回路的额定功率后，按下保护器复位按钮，即可恢复正常供电。

This product has internal AC power, so it is strictly forbidden to open the case without permission from non-specialists. In the event of overload, short circuit, leakage and other faults in the protected circuit, although the current in the line is limited to a few milliamperes, there may still be a high AC voltage, so it is not allowed to touch the metal part of the power line at will. When a short circuit current limit alarm occurs, all load tap switches should be disconnected and the reset button of the protector should be pressed to reset the protector and the tap switches should be closed in turn after the protector has completed its self-test and normal power supply. When a tap switch is closed, the protector will issue a current limit alarm again, and the nature of the tap fault can be judged according to the sound and light display status. At this time should be disconnected from the tap switch, check the electrical circuit of the tap, the fault will be removed, you can close the tap switch power supply. When an overload fault alarm occurs on a circuit, the high power load should be reduced and the rated power

of the circuit should not be exceeded, then press the protector reset button to restore normal power supply.

10. 当发生机体超温限流保护时，表明此时负载电流过大或是环境温度过高、通风散热不良等原因所致，应采取加强通风散热，待机体内部温度降低后，按下复位键恢复供电。

When the body over-temperature current limit protection occurs, it indicates that the load current is too large or the ambient temperature is too high, poor ventilation and heat dissipation, etc., should be taken to strengthen the ventilation and heat dissipation, after the internal temperature of the body is reduced, press the reset button to restore power supply.

11. 本产品一般无需特殊保养和维护，仅需注意防水、防尘和通风散热即可。

This product generally requires no special care and maintenance, only attention to waterproof, dustproof and ventilation and heat dissipation.

产品规格参数：

1. 额定工作电压：380V AC
Rated working voltage: 380V AC
2. 额定工作电流：63A、80A、100A
Rated working current: 63A, 80A, 100A
3. 限流保护时间：<150us
Current limit protection time: <150us
4. 过负荷保护时间：3-60 秒可设定
Overload protection time: 3-60 seconds settable
5. 过温保护：70°C
Over-temperature protection: 70°C
6. 警报声响：≥70db
Alarm sound: ≥70db
7. 报警方式：声光报警
Alarm mode: sound and light alarm
8. 中文液晶显示、轻触键盘式、LED 灯光提醒

Chinese LCD display, touch keypad type, LED light reminder

9. 设备尺寸：350mm*240mm*140mm

Equipment size: 350mm*240mm*140mm

10. 通讯方式：4G/WIFI/RS485

Communication mode: 4G/WIFI/RS485

11. 使用环境条件 Environmental conditions of use

① 环境温度：-20℃~+40℃

Ambient temperature: -20℃ to +40℃

② 相对湿度：10%~90%

Relative humidity: 10% to 90%

③ 海拔高度：不超过 3000m

Altitude: not exceeding 3000m

④ 使用场所：具防雨设施

Place of use: Rainproofed

注：本保护器出厂主要参数已经设置为默认值如下：

Note: The main factory parameters of this protector have been set to default values as follows:

电压过压值：242V

Voltage overvoltage value: 242V

电压欠压值：187V

Voltage undervoltage value: 187V

剩余电流报警值：30mA

Residual current alarm value: 30mA

报警保护：保护

Alarm protection: protection

使用及工作状态说明：

Description of use and working condition:

电气防火限流式保护器正常运行时无须人工干预。但初次运行时应由专人负责对其参数进行设置，确保其工作在正常监测状态。

Electrical fire protection current limiting protectors do not require manual intervention during normal operation. However, a person should be responsible for setting its parameters during initial operation to ensure that it is working in a normal monitoring state.

电气防火限流式保护器设计了友好的人机对话界面，保护器正常运行的各种参数都可以通过键盘进行修改设定，也可以进行手动保护输出操作(仅限非保护状态下)和复位本保护器，为确保保护器运行安全，设置有四位密码，出厂初始为 0009，建议用户初次使用后进行修改(修改后请务必牢记)。

The protection device is designed with a friendly man-machine dialogue interface. The various parameters of the normal operation of the protector can be modified and set via the keyboard, and manual protection output operation (only in the non-protection state) and reset of the protector are also possible. It is recommended to change the password after the first use (please remember it after the change).

主菜单

Main Menu

进入：确定（回车按键）进入主菜单—按翻页按键选择需要的操作

Enter: OK (enter button) to enter the main menu - press the page turn button to select the desired action

1. 设备复位

Equipment reset

选中本级目录，进入：确定（回车按键）—输入密码—确定，对保护器进行复位操作

Select this level and go to: OK (enter key) - enter password - OK to reset the protector

2. 控制输出

Control output

选中本级目录，进入：确定（回车按键）—输入密码—确定，对保护器输出继电器进行控制输出操作

Select this level of the catalogue and enter: OK (enter button) - enter password - OK to control output operation of the protector output relay

3. 参数设置

Parameter setting

选中本级目录，进入：确定（回车按键）—输入密码—确定进入下一级菜单，按翻页按键选择需要设定的项目，依次进入：确定（回车按键）进入相应的参数设置

Select this level of the catalogue, enter: OK (enter button) - enter password - OK to enter the next level of the menu, press the page button to select the item to be set, enter in turn: OK (enter button) to enter the corresponding parameter settings

4. 限流输出

Current-limited output

选中本级目录，进入：确定（回车按键）—输入密码—确定，对保护器进行限流保护输出操作（仅限非短路限流保护状态下）

Select this level of the catalogue and go to: OK (enter key) - enter password - OK to operate the current-limited protection output on the protector (only in the non-short-circuit current-limited protection state)

① 设备地址 Equipment address

设置设备的网络通讯地址

Set the network communication address of the device

② 电压过压值 Voltage overvoltage values

设置电压高限报警值

Setting the voltage high limit alarm value

③ 电压欠压值 Voltage undervoltage values

设置电压低限报警值 Setting the voltage low limit alarm value

④ 电流报警值 Current alarm value

设置电流报警值 Setting the current alarm value

⑤ 漏电报警值 Leakage alarm value

设置漏电报警值 Setting the leakage alarm value

⑥ 温度报警值 Temperature alarm value

设置外接的温度报警值 Set external temperature alarm values

⑦ 电压保护允许 Voltage protection allowed

设置电压报警是否允许限流保护

Set whether the voltage alarm allows current limit protection

⑧ 电流保护允许 Current protection allowed

设置电流报警是否允许限流保护

Set whether current alarm allows current limit protection

⑨ 漏电保护允许 Earth leakage protection allowed

设置漏电报警是否允许限流保护

Whether setting a leakage alarm allows current-limiting protection

⑩ 温度保护允许 Temperature protection allowed

设置温度报警是否允许限流保护

Set whether the temperature alarm allows current limit protection

⑪ 温度设置 Temperature setting

配置温度通道数量（默认内置 1 路温度）

Configure the number of temperature channels (default built-in 1 temperature channel)

⑫ 总线速率 Bus rate

设置设备 RS485 总线通讯速率

Set the RS485 bus communication rate of the device

⑬ 故障报警允许 Fault alarm allowed

设定设备在检测到有传感器故障时是否报警

Set whether the device will alarm if a sensor fault is detected

⑭ 警音允许 Alarm sound allowed

设定设备在报警状态时是否允许声音输出

Sets whether or not to allow audible output when the device is in alarm

⑮ 对比度 Contrast

设定设备液晶显示屏的对比度

Setting the contrast of the device's LCD display

⑩⑥ 设备密码 Equipment password

设定设备密码

Set device password

⑩⑦ 报警延时 Alarm delay

设定报警延时时间（单位：秒）

Set alarm delay time (in seconds)

⑩⑧ 上报设置 Reporting settings

设定设备是否定时主动上报数据（单位：秒），0 表示不上报

Sets whether the device actively reports data at regular intervals (in seconds), 0 means no reporting

⑩⑨ 漏电切除 Leakage removal

剩余电流低于设定值时显示 0

0 is displayed when the residual current is below the set value

⑩⑩ 电能擦除 Electrical energy erasure

电能数据清零

Zeroing of electrical energy data

⑩⑪ 额定电流值 Rated current value

本保护器的额定工作电流（用户不可设置）

Rated operating current of this protector (not user settable)

⑩⑫ 设备号 Equipment number

本保护器的设备编号（用户不可设置）

Device number of this protector (not user settable)

⑩⑬ 短路记录 Short circuit recording

记录短路报警次数（用户不可设置）

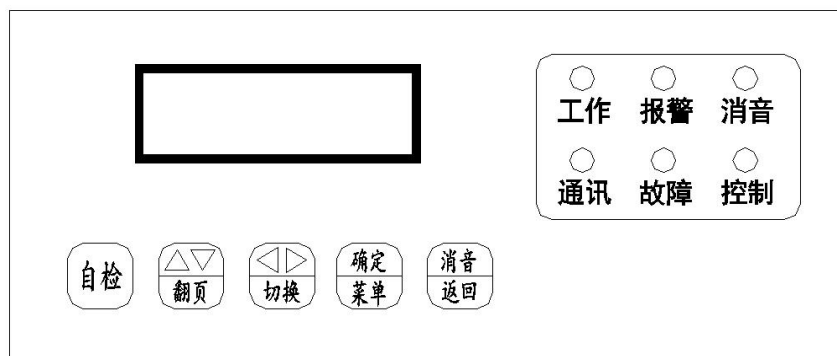
Recording of the number of short circuit alarms (not user settable)

操作界面：

Operator interface :

1. 操作面板：

Operating panel:



2. 液晶显示屏：

LCD display:

实时显示被测回路的短路、故障电弧状态、电压、电流、频率、漏电、温度值，及当前限流保护状态，当发生短路或被测参数达到设定的报警值时，会自动跳转到状态显示窗口，相应的报警灯会点亮并伴有声音报警。

Real-time display of the short circuit, arc fault status, voltage, current, frequency, leakage, temperature values of the circuit under test, and the current current limit protection status, when a short circuit occurs or the measured parameters reach the set alarm value, it will automatically jump to the status display window, the corresponding alarm light will be lit and accompanied by an audible alarm.

3. 按键：用于实现特定功能和参数设置，应由专业人员操作。

Keypad : For specific functions and parameter settings, which should be operated by specialist personnel.

- (1) 自检按键：检测保护器显示、声光等部件是否正常工作，按下后所有指示灯都会点亮、并伴有扬声器短暂的声音，同时液晶显示屏会全屏点亮，自检完成后自动恢复到正常使用状态；

Self-test button: detects whether the display, sound and light components of the



protector are working normally, all indicators will light up after pressing, accompanied by a short sound from the speaker, while the LCD screen will light up in full, the self-test will automatically return to normal use after completion;

- (2) 消音（返回）按键：按下此键，可消除正在报警中的声音，在下次发生隐患报警时，还会自动触发声音报警；返回按键在进行参数设置时可以退出当前菜单返回到上一级。

Silence (return) button: press this button to eliminate the sound in the alarm, in the next occurrence of the hidden alarm, will also automatically trigger the sound alarm; return button in the parameter setting can exit the current menu to return to the previous level.

- (3) 翻页、切换、确定按键：翻屏、切换或进行参数设定和修改等

Page turn, switch, OK button: turn the screen, switch or make parameter settings and changes, etc.

4. 指示灯 Indicators:

- (1) 运行指示灯：保护器处于正常监测运行时应为绿色闪烁状态；处于保护状态时常亮，表示保护器输出保护。

Operation indicator: When the protector is in normal monitoring operation, it should be flashing green; when it is in protection status, it is always on, indicating that the protector output is protected.

- (2) 消音指示灯：当发生故障、报警事件时，若按下消音按键，则表现为绿色常亮状态，提醒工作人员当前处于手动消音状态。

Silence indicator: When a fault or alarm event occurs, if the silence button is pressed, it will show a constant green light to remind staff that they are currently in a manual silence state.

- (3) 故障指示灯：当发生故障事件时，表现为黄色常亮状态，同时发出故障音，表示保护器传感器有故障，提醒工作人员及时解决处理。

Fault indicator: When a fault event occurs, it will be shown as a yellow constant light state and a fault tone will be emitted at the same time, indicating that the protector sensor has a fault and reminding the staff to solve the treatment in time.

- (4) 报警指示灯：当发生报警事件时，表现为红色常亮状态，同时发出报警音，这表示用电线路中出现报警情况，提醒工作人员及时解决处理。



Alarm indicator: When an alarm event occurs, it will be red and always on, and at the same time an alarm tone will be emitted, which indicates an alarm situation in the power line and reminds the staff to solve the problem in time.

- (5) 过载指示灯：当发生过载事件时，表现为红色常亮状态，同时发出过载报警音，这表示用电线路中出现超负载情况，提醒工作人员及时解决处理。

Overload indicator: When an overload event occurs, it will be shown as a red constant light state and an overload alarm tone will be issued, which indicates an overload situation in the power line and reminds the staff to solve the problem in time.

- (6) 短路指示灯：当发生短路事件时，表现为红色常亮状态，同时发出短路报警音，这表示用电线路中出现短路情况，提醒工作人员及时解决处理。

Short-circuit indicator: When a short-circuit event occurs, it will show a red constant light state and at the same time issue a short-circuit alarm tone, which indicates a short-circuit situation in the power line and reminds the staff to solve the treatment in time.

- (7) WORK：显示 GPRS 通讯模块是否正常运行，正常运行时应为绿色闪烁状态。

WORK: Shows whether the GPRS communication module is operating normally, it should be flashing green when it is operating normally.

- (8) LINK：显示 GPRS 通讯模块网络连接是否正常，正常时应为绿色状态。

LINK: Shows whether the network connection of GPRS communication module is normal, when normal it should be green.

5.蜂鸣器 Buzzer:

- (1) 当有故障事件时，蜂鸣器间隔响声 500ms，同时故障灯指示亮起。

When there is a fault event, the buzzer sounds at intervals of 500ms and the fault light indication comes on at the same time

- (2) 当有报警事件时，蜂鸣器间隔响声 300ms(相比故障鸣音更加急促)，同时报警指示灯亮起

When there is an alarm event, the buzzer sounds at intervals of 300ms (more rapid than the fault beep) and the alarm indicator lights up at the same time

- (3) 当有短路事件时，蜂鸣器间隔响声 200ms(相比报警鸣音更加急促)，同时短路指示灯亮起

When there is a short circuit event, the buzzer sounds at intervals of 200ms (more rapid than the alarm beep) and the short circuit indicator lights up at the same time

一般故障排除 **General Troubleshooting:**

电气防火限流式保护器的故障排除，请参照下表：

For troubleshooting of electrical fire protection current limiting protectors, please refer to the following table:

故障现象 Failure phenomena	故障部位 Fault area	可能原因 Possible causes	解决办法 Solutions
液晶屏无显示，运行指示灯亮 No display on LCD, operation light on	保护器 Protectors	复位不正常 Resetting not normal	断电后重新开机 Restarting after a power failure
液晶屏无显示，运行指示灯不亮 No display on the LCD screen and the operation indicator does not light up	保护器 Protectors	电源线断线 Power cord disconnection	检查电源线并重新接好 Check the power cable and reconnect it
液晶屏电流显示始终为“0” The LCD current display is always "0"	保护器 Protectors	断线 Disconnected	检查接线 Check the wiring
液晶屏温度显示始终为“0”或“无” LCD temperature display is always "0" or "none"	温度传感器 Temperature sensors	断线或损坏 Broken or damaged wires	检查接线或更换 Check wiring or replace

如出现其它现场不可解决的问题，请与我公司联系。

Please contact us if other problems arise that cannot be solved on site.

注意事项：

Caution:

1. 每日操作“自检”按钮，并确认正常，以保证保护器处于正常工作状态。

Operate the "self-test" button daily and confirm that it is normal to ensure that the protector is in normal working order.

2. 报警发生时，应先做“消音”处理，观察指示灯和液晶显示屏的内容，判断报警或故障类型，再对供电电路进行隐患排查，隐患排查以后进行复位操作，使保护器恢复正常工作状态。

When an alarm occurs, first do the "silencing" process, observe the contents of the indicator and LCD display, determine the type of alarm or fault, and then carry out hidden troubleshooting on the power supply circuit, and reset the operation after the hidden troubles have been eliminated, so that the protector can return to normal operation.

3. 每次故障处理后，应对发生故障的时间、类型及处理方式等内容进行记录，以便日后查询。

After each fault is dealt with, the time, type and treatment of the fault should be recorded for future reference.

4. 未经本公司同意，任何人员不得拆开保护器或进行维修。

No person shall dismantle the protector or carry out maintenance without the consent of the Company.

5. 按国家标准 GB 13955-2005 规定，本装置的工作年限为六年，届时应予以更换。

According to the national standard GB 13955-2005, the working life of this device is six years, at which time it should be replaced.

6. 电气防火限流式保护器应在其主要技术特性下工作,保护器属于精密仪器仪表类,应避免冲击、碰撞,严禁雨水淋湿。

Electrical fire protection current-limiting protector should work under its main technical characteristics, the protector belongs to the category of precision

instrumentation, should avoid impact, collision, rainwater wetting is strictly prohibited.

售后服务

After Sales Service

1. 本产品自销售之日起，保修期限为一年包换，三年保修，在保修期内出现非人为损坏的质量问题，本公司负责包修、包换。

From the date of sale, this product will be returned within one year and guaranteed for three years. If there is any quality problem caused by non-human damage during the warranty period, the company will be responsible for the warranty.

2. 产品使用超过保修期限的，本公司将酌情收取维修或调换所产生的材料和人工费用。

If the product is used beyond the warranty period, the Company will charge the material and labour costs incurred for repair or replacement as appropriate.

搬运和储存

Handling and storage

设备搬运，运输，储存均需在包装状态下进行，装卸过程要轻拿轻放，防止碰撞损坏。储存环境应保持通风，干燥，切忌露天存放。

The equipment should be handled, transported and stored in a packaged state. The loading and unloading process should be carried out gently to prevent collision damage. The storage environment should be ventilated and dry, and should not be stored in the open air

联系我们

contact us

Guangdong Province Hengxiang Security Technology Co., Ltd

Website: www.hxkj119.cn

Email: hxkj_119@163.com

Service Hotline: 400-7655-119

[Tel: \(+86\) 0755-2972-8368](tel:+86075529728368)

Address: Building 2, Nam Tai Inno Valley, Guangming Avenue, Guangming District, Shenzhen, Guangdong Province, China