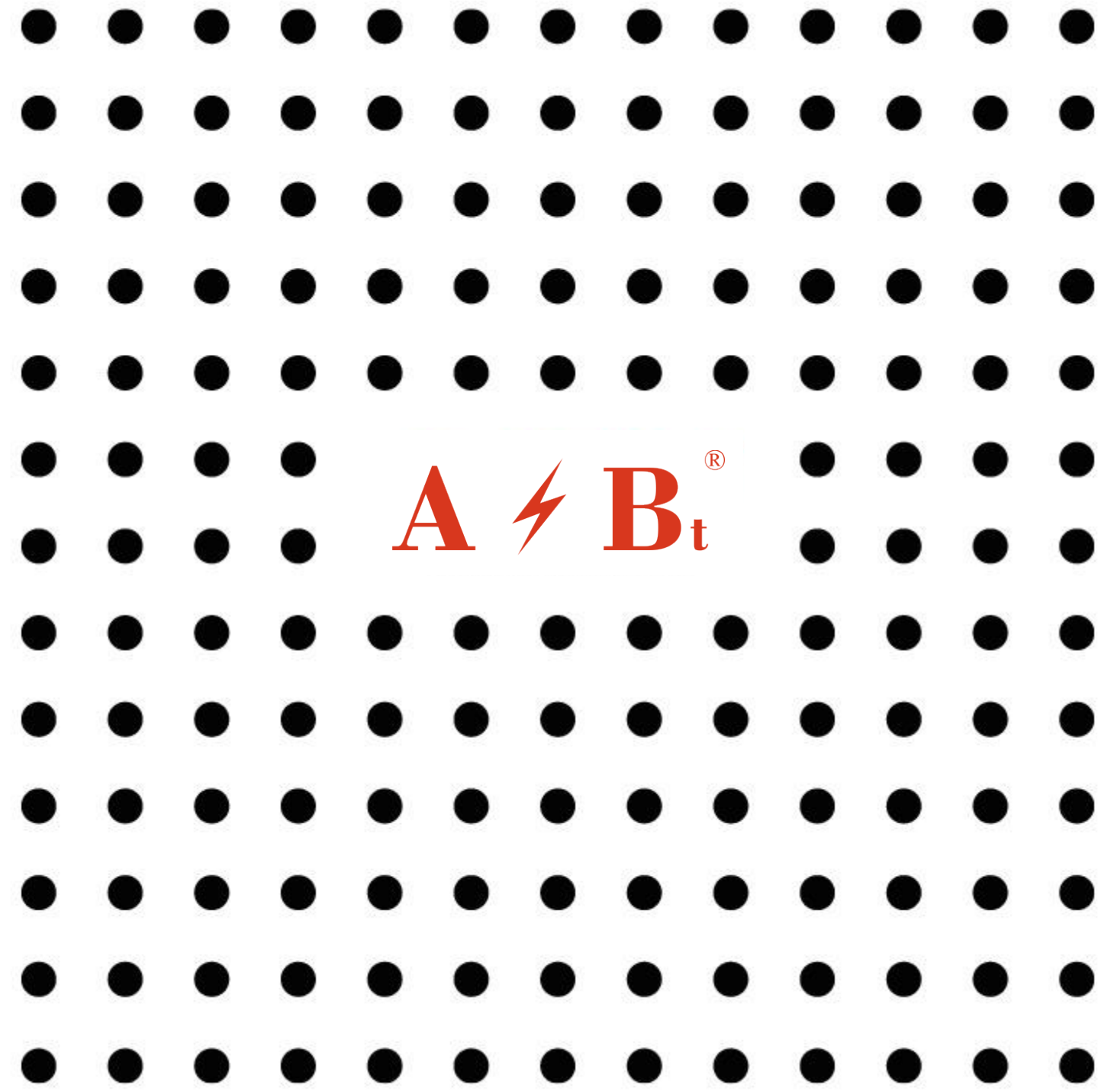


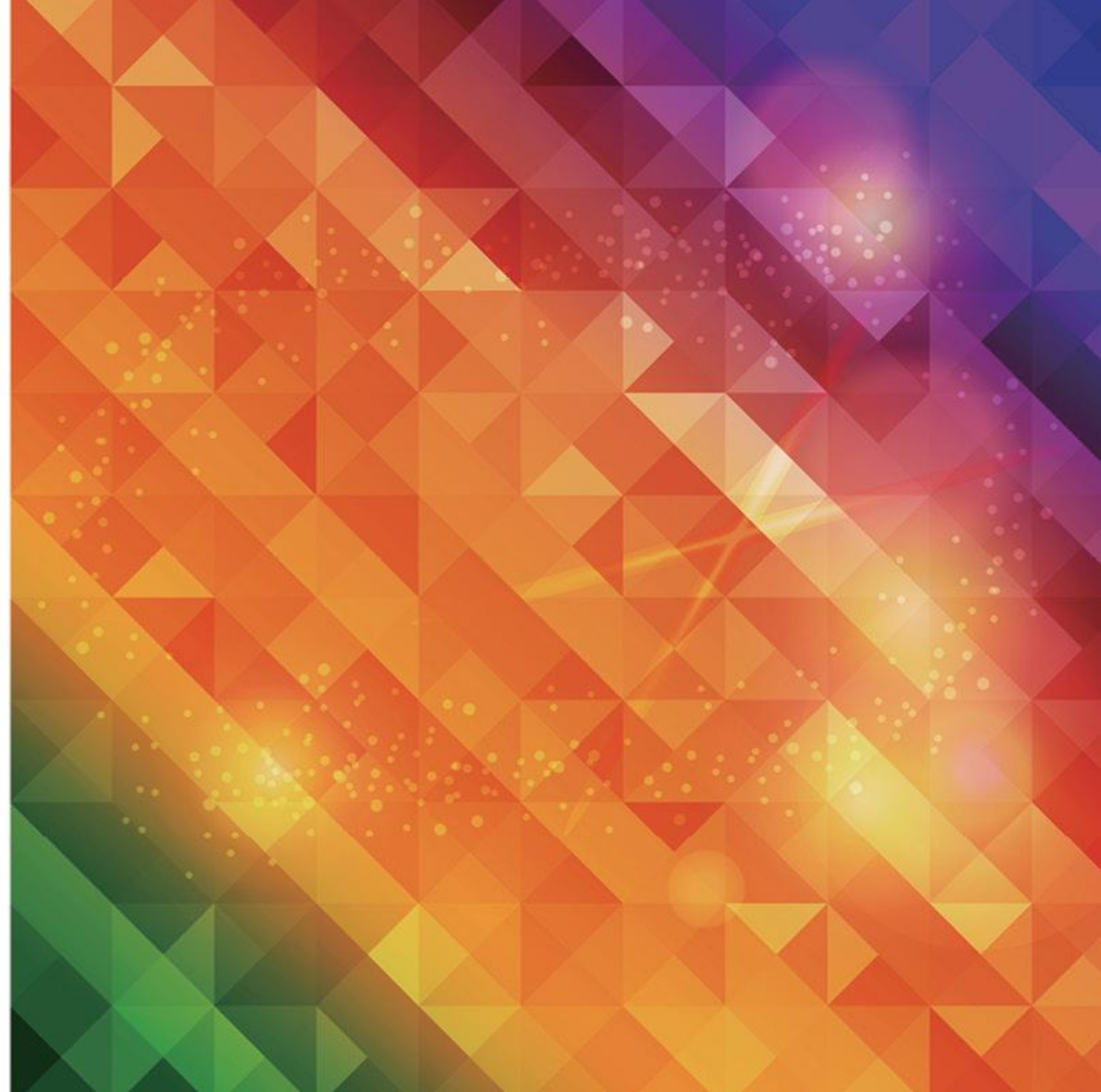
A ⚡ **B_t**[®]

CE CB CCC  
CODE 2023 All rights reserved, effective 2023

A ⚡ **B_t**[®]



EXPERT IN INDUSTRIAL CONTROL
&AUTOMATION & PHOTOVOLTAIC



MANUFACTURE

专业制造·专心服务



我们拥有一流的设备，拥有规模化的生产实力。我们可以轻松为高端客户奉献精品，更有把握短期内满足全球市场的需求。我们的技术专家直接参与生产，以保证产品的稳定性和可靠性万无一失

We have first-class equipment and large-scale production strength. We can easily offer high-quality products to high-end customers, and we are more sure to meet the needs of the global market in the short term. Our technical experts are directly involved in production to ensure product stability and reliability.

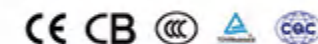


公司已通过 ISO9001 认证, CCC 认证 ,CB 认证以及欧共体 CE 认证, 并严格按照国际标准 IEC60947 国家 GB 14048.5 认证标准生产和检验。

We have our own research & development departments as well. Our company has ISO9001 certification, and our products have CCC , CE, CB certification.

QUALIFICATION HONOR

资质荣誉



Single & Three Phase Protetor

With The Mission Of Protecting Electricity Makes Human
 Electricaty Safer And More Assured



NP1-A

技术参数 Technical Data

额定电源电压 Hz Rated supply voltage Hz	AC 220V / 50-60Hz	工作电压范围 Operation voltage range	AC 185V~300V
过电流脱扣值 Overcurrent trip value	0.5-16A	误差 Error	2%±
>U 和 <U 跳闸延迟 >U And <U Trip Delay	0.5S	重置 / 启动延迟 Reset/Start Delay	1~100S
额定绝缘电压 Rated Insulation Voltage	400V	输出触点 Output contact	1NO
电气寿命 Electrical life	10 ⁵	机械寿命 Mechanical life	10 ⁴
防护程度 Protection Degree	IP20	污染程度 Pollution Degree	3
海拔高度 Altitude	≤2000m	工作温度 Operating temperature	-50℃ ~ 55℃
湿度 Humidity	≤50%at40℃ (无冷凝 without condensation)	储存温度 Storage temperature	-30℃ ~ 70℃

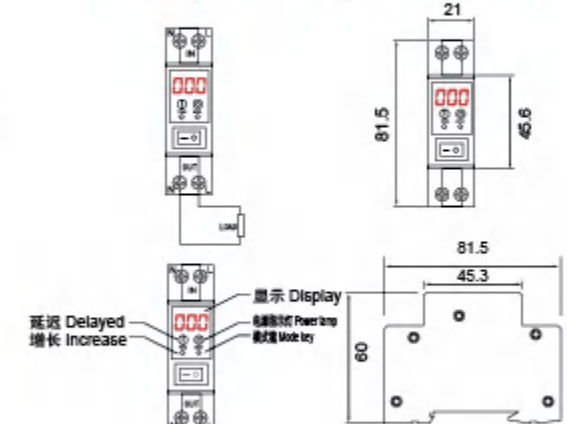
默认设置 Default Setting

技术参数 Technical Parameter	设定范围 Setting range	步骤 Step	出厂设置 Factory Setting
过电压保护值 Over-Voltage Protection Value	0.5A-16A	0.1A	5A
恢复延迟时间 Recovery delay time	1-600s	1s	5s
连续过电流保护次数 Continuous over-current protect times	1-20/oFF	1	oFF

功能设置 Function Setting



接线和形状尺寸 Wiring and shape dimensions





NP2-VA

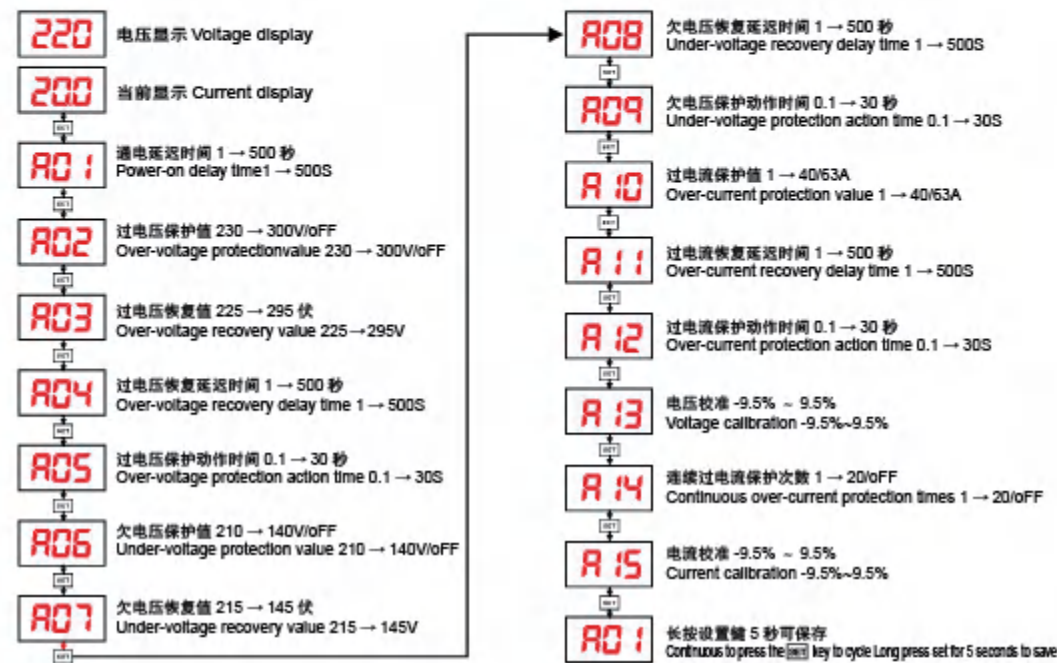
技术参数 Technical Data

额定电源电压 Rated supply voltage	AC 220V	工作电压范围 Operation voltage range	AC 80V~400V(单相 single phase)
额定频率 Rated frequency	50/60Hz	电流 (>A) 设定范围 Electric current(>A) setting range	1~40/63A
过电压 (>U) 设置范围 Overvoltage(>U)setting Range	230~300V	欠压 (>U) 设定范围 Undervoltage(>U)setting Range	210~140V
额定电流 Rated Current	40/63A(以产品标签为准 subject to product label)	>U 和 <U 跳闸延迟 >U And <U Trip Delay	0.1~30S
重置 / 启动延迟 Reset/Start Delay	1~500S	电压测量精度 Voltage measurement accuracy	2%(不超过总范围的 2%Not exceeding 2% of the overall range)
额定绝缘电压 Rated Insulation Voltage	400V	输出触点 Output contact	1NO
电气寿命 Electrical life	10 ⁴	机械寿命 Mechanical life	10 ⁴
防护等级 Protection Degree	IP20	污染程度 Pollution Degree	3
海拔高度 Altitude	≤2000m	工作温度 Operatlng temperature	-50℃ ~ 55℃
湿度 Humidity	≤50%at40 ℃ (无冷凝 without condensation)	储存温度 Storage temperature	-30℃ ~ 70℃

默认设置 Default setting

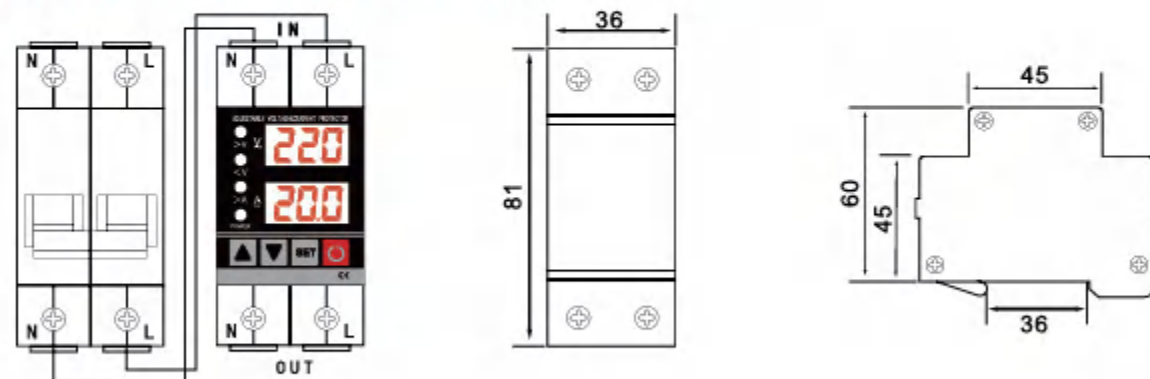
技术参数 Technical Parameter	设定范围 Setting range	步骤 Step	出厂设置 Factory Setting
通电延迟时间 Power-on Delay Time	1~500S	1S	10S
过电压保护值 Over-Voltage Protection Value	230~300V	1V	270V
过电压恢复值 Over-Voltage Recovery Value	225~295V	1V	265V
过电压恢复延迟时间 Over-Voltage Recovery Delay Time	1~500S	1S	30S
过电压保护动作时间 Over-Voltage Protection Action Time	0.1~30S	0.1S	1S
欠压保护值 Under-Voltage Protection Value	210~140V	1V	170V
欠压恢复值 Under-Voltage Recovery Value	215~145V	1V	175V
欠压恢复延迟时间 Under-Voltage Recovery Delay Time	1~500S	1S	30S
欠压保护动作时间 Under-Voltage Protection Action Time	0.1~30S	0.1S	1S
过电流保护值 Over-Current Protection Value	1~40/63A	0.1A	40/63A
过电流恢复延迟时间 Over-Current recovery Delay Time	1~500S	1S	30S
电压校准 Voltage Calibration	-9.5~9.5%	0.5%	0%
电流校准 Current Calibration	-9.5~9.5%	0.5%	0%
连续过电流保护 Continuous over-current protectimes	1-20/OFF	1	OFF
电流校准 Current calibration	-9.5 ~ 9.5%	0.5%	0%

功能设置 Function Setting



长按 可快速调整数字加或减
To adjust the figure quickly by long time press the add or subtract key

接线和形状尺寸 Wiring and shape dimensions





NP2-V

技术参数 Technical Data

额定电源电压 Rated supply voltage	AC 220V	工作电压范围 Operation voltage range	AC 80V~350V
额定频率 Rated frequency	50/60Hz	过电压(>U) 设置范围 Overvoltage(>U) setting Range	230~300V
欠电压(>U) 设置范围 Undervoltage(>U) setting Range	210~140V	额定电流 Rated Current	40/63A(以产品标签为准 subject to product label)
>U 和 <U 跳闸延迟 >U And <U Trip Delay	0.5S	重置 / 启动延迟 Reset/Start Delay	1~600S
电压测量精度 Voltage measurement accuracy	2%(Not exceeding 2% of the overall range)	额定绝缘电压 Rated Insulation Voltage	400V
输出触点 Output contact	1NO	电气寿命 Electrical life	10 ⁴
机械寿命 Mechanical life	10 ⁴	防护程度 Protection Degvree	IP20
污染程度 Pollution Degree	3	海拔高度 Altitude	≤2000m
工作温度 Operating temperature	-50℃ ~ 55℃	湿度 Humidity	≤50%at40℃ (无冷凝 without condensation)
储存温度 Storage temperature	-30℃ ~ 70℃		

默认设置 Default Setting

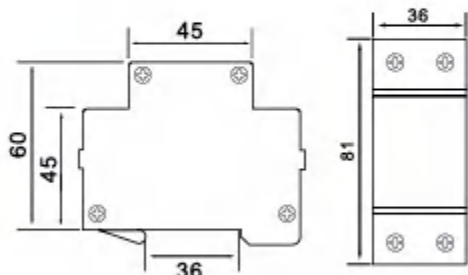
技术参数 Technical Parameter	设定范围 Setting range	步骤 Step	出厂设置 Factory Setting
过电压保护值 Over-Voltage Protection Value	230~300V	1V	280V
欠压保护值 Under-Voltage Protection Value	210~140V	1V	160V
恢复延迟时间 Recovery delay time	1~600s	1s	5s

功能设置 Function Setting

接线和形状尺寸 Wiring and shape dimensions



长按 ▲ ▼ 可快速调整数字加或减
To adjust the figure quickly by long time press the add or subtract key



NP2-A

技术参数 Technical Data

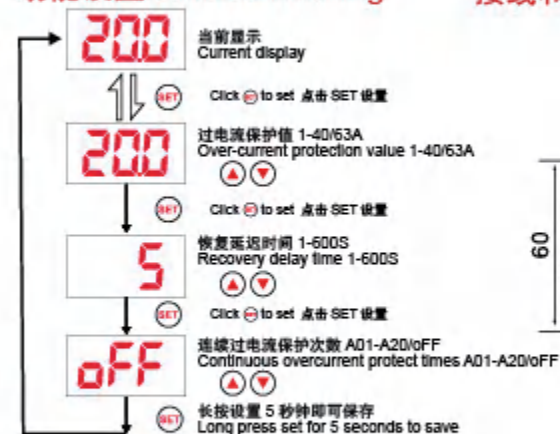
额定电源电压 Rated supply voltage	AC 220V	工作电压范围 Operation voltage range	AC 80V~350V
额定频率 Rated frequency	50/60Hz	电流设定范围 Electric current setting range	1~40/63A
额定电流 Rated Current	40/63A(以产品标签为准 subject to product label)	>U 和 <U 跳闸延迟 >U And <U Trip Delay	0.5S
重置 / 启动延迟 Reset/Start Delay	1~600S	电压测量精度 Voltage measurement accuracy	1%(不超过总范围的 2% Not exceeding 2% of the overall range)
额定绝缘电压 Rated Insulation Voltage	400V	输出触点 Output contact	1NO
电气寿命 Electrical life	10 ⁴	机械寿命 Mechanical life	10 ⁴
防护程度 Protection Degvree	IP20	污染程度 Pollution Degree	3
海拔高度 Altitude	≤2000m	工作温度 Operating temperature	-50℃ ~ 55℃
湿度 Humidity	≤50%at40℃ (无冷凝 without condensation)	储存温度 Storage temperature	-30℃ ~ 70℃

默认设置 Default Setting

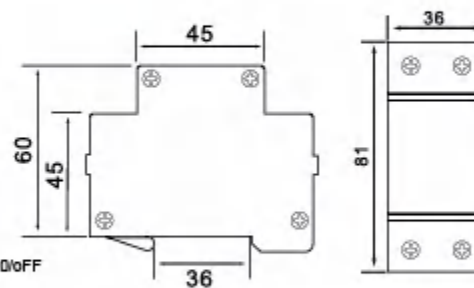
技术参数 Technical Parameter	设定范围 Setting range	步骤 Step	出厂设置 Factory Setting
过电压保护值 Over-Voltage Protection Value	1~40/63A	0.1A	40/63A
恢复延迟时间 Recovery delay time	1~600s	1S	5S
连续过电流保护次数 Continuous over-current protect times	A01~A20/oFF	A01	oFF

功能设置 Function Setting

接线和形状尺寸 Wiring and shape dimensions



长按 ▲ ▼ 可快速调整数字加或减
To adjust the figure quickly by long time press the add or subtract key





NP2-VAKWH

技术参数 Technical Data

额定电源电压 Rated supply voltage	AC 220V	工作电压范围 Operation voltage range	AC 80~400V(单相 single phase)
额定频率 Rated frequency	50/60Hz	电流 (>A) 设定范围 Electric current(>A) setting range	1-40/63A /oFF
过电压(>U) 设置范围 Overvoltage(>U) setting Range	230-300V /oFF	欠压(<U) 设置范围 Undervoltage(<U) setting Range	210~140V/oFF
千瓦时保护值 Kilowatt-hour protection value	1-9999/oFF	额定电流 Rated Current	40/63A(以产品标签为准 subject to product label)
>U 和 <U 跳闸延迟 >U And <U Trip Delay	0.5S	重置 / 启动延迟 Reset/Start Delay	1~600S
电压测量精度 Voltage measurement accuracy	2%(不超过总范围的2% Not exceeding 2% of the overall range)	额定绝缘电压 Rated insulation Voltage	400V
输出触点 Output contact	1NO	电气寿命 Electrical life	10 ⁶
机械寿命 Mechanical life	10 ⁶	防护等级 Protection Degree	IP20
污染程度 Pollution Degree	3	海拔高度 Altitude	≤2000m
工作温度 Operating temperature	-50℃ ~ 55℃	湿度 Humidity	≤50%at40℃ (无冷凝 without condensation)
储存温度 Storage temperature	-30° C~70° C		

默认设置 Default setting

技术参数 Technical Parameter	设定范围 Setting range	步骤 Step	出厂设置 Factory Setting
过电压保护值 Over-Voltage Protection Value	AC230V-300V/oFF	1V	AC280V
欠电压保护值 Under-Voltage Protection Value	AC210V-140V/oFF	1V	AC160V
恢复延迟时间 Recovery delay time	1S-600S	1S	5S
过电流保护值 Over-current protection value	1-40/63A/oFF	0.1A	63A
连续过电流保护次数 Continuous over-current protect times	1-20/oFF	1	oFF
千瓦时保护值 Kilowatt-hour protection value	1-9999/oFF	1	300

现行规范 Current Specification	15A	25A	32A	50A	63A
额定工作电流 (In, A) Rated Operating current(In,A)	15	25	32	50	63
最大工作电流 Imax (A, 10分钟内) Max Operating Current Imax(A, within 10min)	25	30	40	60	80
负载最大功率 (KW) Max power of load(KW)	3.6	5.5	7	11	13.9

功能设置 Function Setting

电压显示 Voltage display
 当前显示 Current display
 千瓦时显示 Kilowatt-hour display
 同时按下可重置 Kwh Press simultaneously to reset Kwh

过电压保护值 230-300V/oFF
 Over-voltage protection value 230-300V/oFF
 Click (SET) to set 点击 SET 设置

欠压保护值 210-140V/oFF
 Under-voltage protection value 210-140V/oFF
 Click (SET) to set 点击 SET 设置

恢复延迟时间 1-600S
 Recovery delay time 1-600S
 Click (SET) to set 点击 SET 设置

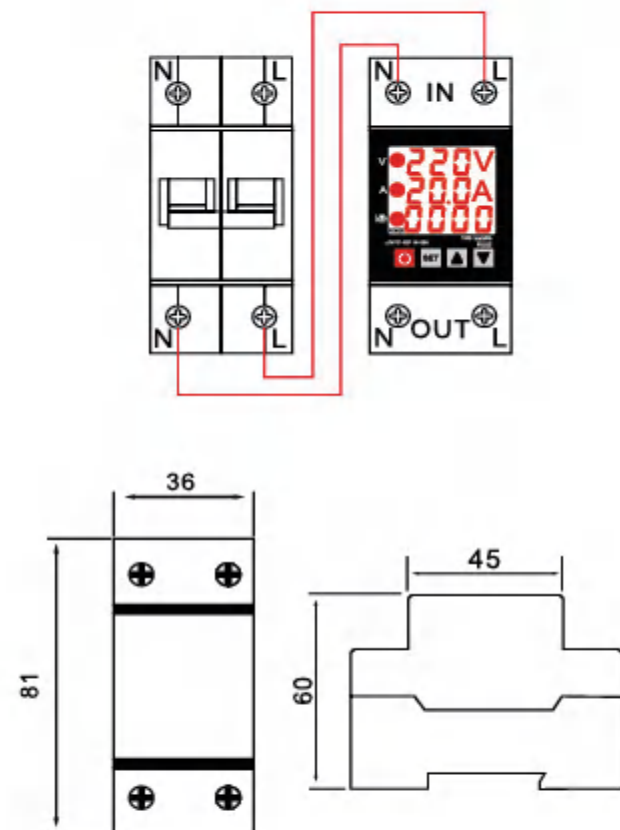
过电流保护值 1.0-63.0A/oFF
 Over-current protection value 1.0-63.0A/oFF
 Click (SET) to set 点击 SET 设置

连续过电流保护次数 A01-A20/oFF
 Continuous over-current protect times A01-A20/oFF
 Click (SET) to set 点击 SET 设置

千瓦时保护值 1-9999/oFF
 Kilowatt-hour protection value 1-9999/oFF
 长按设置 5 秒钟即可保存 Long press set for 5 seconds to save

长按 (▲) (▼) 可快速调整数字加或减
 To adjust the figure quickly by long time press the add or subtract key

接线和形状尺寸 Wiring and shape dimensions



过电压 Over-voltage
 过流值 Overcurrent value
 千瓦时 kWh
 ON/OFF
 菜单设置键 Menu setting key

电压显示 Voltage display
 当前显示 Current display
 千瓦时显示槽 kilowatt-hour display
 Increase 增加
 Reduce 减少



NP2-WIFI

技术参数 Technical Data

额定电源电压 Rated supply voltage	AC 220V	工作电压范围 Operation voltage range	AC85v-300v (单相 single phase)
额定频率 Rated frequency	50Hz	电流 (>A) 设定范围 Electric current(>A) setting range	1A-63A
过电压 (> U) 设定范围 Overvoltage (>U) setting range	110V-300V (可调 adjustable)	欠电压 (< U) 设定范围 Undervoltage (<U) setting range	85V-220V (可调 adjustable)
漏电保护 Leakage protection	10mA-300mA (此功能可关闭 This function can be turned off)	误差范围 Discrepancy Range	2%
>U 和 <U 跳闸延迟 >U and <U trip delay	1s-30s (可调) (默认值: 1s)	复位 / 启动延迟 Reset/Start Delay	1s-500s (可调 adjustable) (默认值 Default value: 5s)
电压测量精度 Voltage measurement accuracy	1% (不超过总范围的1%Not exceeding 1%of the total range)	额定绝缘电压 rated insulation voltage	400V
输出触点 Output contact	1NO	海拔高度 Altitude	≤2000m
工作温度 Operation temperature	-30℃ -70℃ 功率显示器 Power display	范围 Range	0-99999.9kw/h

功能 Function:

1. 随时随地远程控制
 2. 时间表 / 计时器 / 循环计时器
 3. 能源监测
 4. 欠压保护 85V-220V (可调) (默认: 100V)
 5. 过电压保护 110V-300V (可调) (默认值: 270V)
 6. 过电流保护 1A-63A (可调) (默认值: 63A)
 7. 漏电保护: 10-300mA (可调) (默认值: 30mA)
 8. 通过应用程序预设电流 / 电压阈值, 一旦实时 / 电流 / 电压达到阈值, 连接的电器将自动关闭
1. Remote control at anytime from anywhere
 2. Schedule/Timer/loop timer
 3. Energy monitoring
 4. Under voltage protection 85V-220V (adjustable) (default:100V)
 5. Over voltage protection 110V-300V (adjustable) (default:270V)
 6. Over current protection 1A-63A (adjustable) (default:63A)
 7. Electric leakage protection:10-300mA (adjustable) (default: 30mA)
 8. Preset current/voltage threshold values by app, Once the real-time/current/voltage reaches the threshold values, The connected electrical appliances will be automatically turned off

参数设置 Parameter Settings:

1. 单击“设置”查看每个数据
 2. 按 SET 键 5 秒进入设置模式, 然后按 SET 键选择, 按和调整设置
1. Click set to view each data
 2. Press SET for 5 seconds to enter setup mode, and then press SET to select, press and key to adjust the set

网络连接 Network Connection:

1. 随时随地远程控制
 2. 时间表 / 计时器 / 循环计时器
 3. 能源监测
1. Remote control anytime, anywhere
 2. Schedule/Timer/Cycle Timer
 3. Energy monitoring



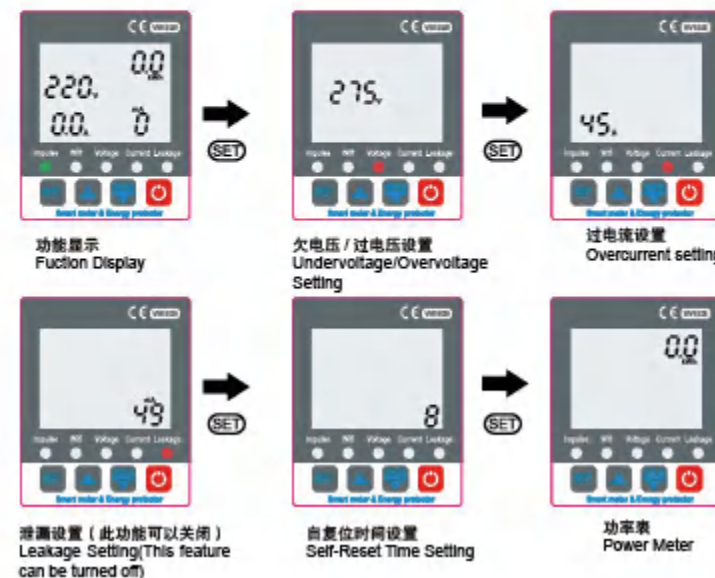
使用手机二维码扫描工具扫描下方二维码, 在 mobile 应用市场搜索“图瓦智能”即可下载安装 APP → 在手机上连接家庭 Wi-Fi, 启动“图瓦智能”APP → 按照应用程序中的说明注册 / 登录应用程序帐户并添加新设备 → 添加完新设备后, 您可以使用 APP 方便地控制您的设备 → APP 基于实际发布版本

Scan the QR code underneath with mobile QR code scanning tool, or search "Tuva smart" at mobile application market to download and install APP → Connect home Wi-Fi on your mobile phone and start "Tuya smart" APP → Follow the instruction in the APP to register/log in APP account and add new device → After finishing adding new device, you can use APP to control your device conveniently → APP is based on actual released version

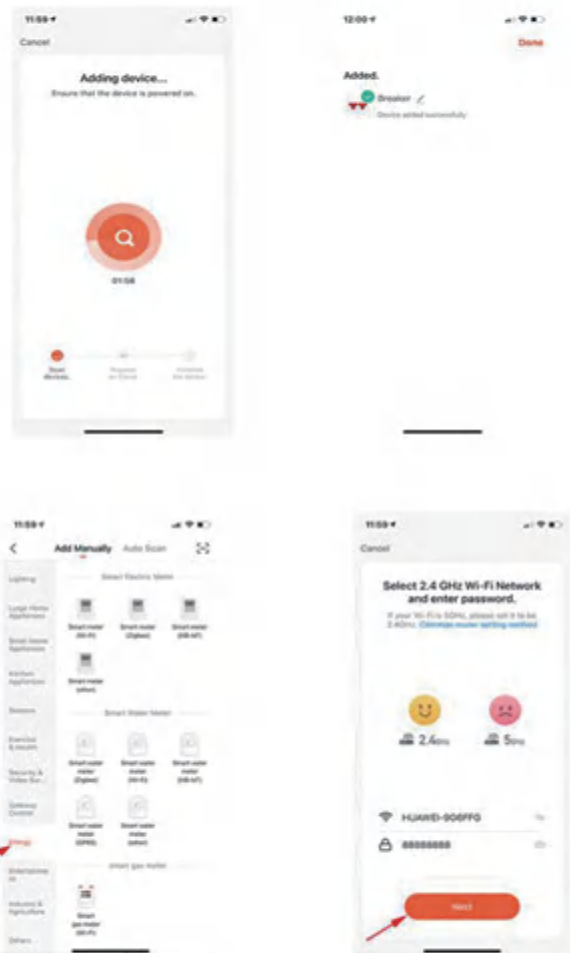
网络设置 Network settings:

启动“图瓦智能”APP 并登录, 在第一个页面, 选择左上角的家庭, 然后点击右上角的“+”, 进入设备添加设置页面。

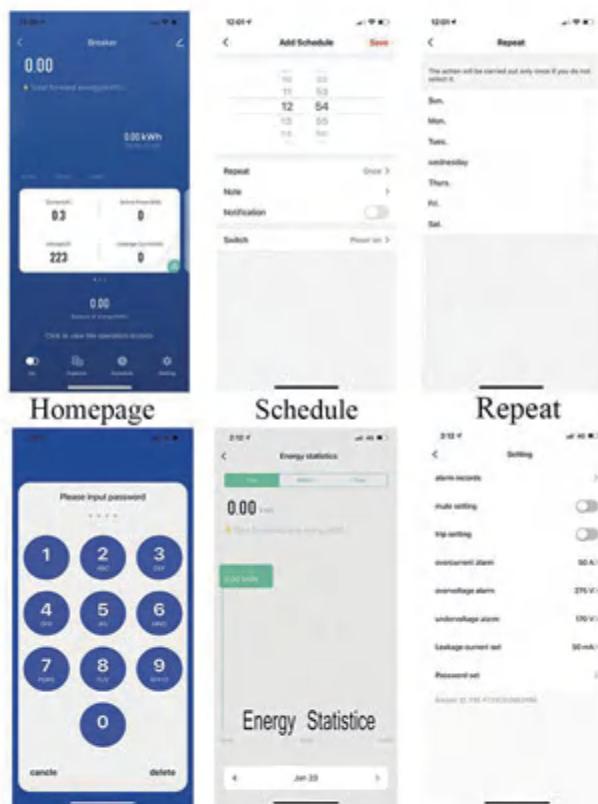
Start "Tuya smart" APP and log in. At the first page, select family at the top left corner and then click "+" on the top right corner to enter the device addition setting page.



点击“所有设备”，找到要选择的“能源”项目。打开电表电源，按键5秒，直到网络指示灯快速闪烁，点击“确认指示灯快速闪光”按钮。
Click "all device" and find out the "Energy" item to select. Turn the power on of the power meter and press Key for 5 seconds till the network indicator flashes rapidly, click "confirming the indicator is flash rapidly" Button.



输入已连接 Wi-Fi 的密码，仅支持 2.4G 无线网络，不支持 5G 无线网络。当前不支持 Wi-Fi 名称和密码中存在汉字，这可能会导致 APP 无法添加新设备。单击“确认”并等待连接。当连接完成并成功添加设备时，您可以设置设备的安装室。
Input the password of connected Wi-Fi, Only supports 2.4G wireless network, 5G wireless network is not supported. Existence of Chinese Characters in Wi-Fi name and password in currently not supported, it may cause the APP fails to add new device.
Click "Confirm" and wait for connection. When finish connection and add device successfully, you can set the installation room of the device.
Switch button and central power button can control the power on/off of the device.



NP3-VA

技术参数 Technical Data

额定电源电压 Rated supply voltage	AC 220V	工作电压范围 Operation voltage range	AC 80~400V(单相 single phase)
额定频率 Rated frequency	50/60Hz	电流 (>A) 设定范围 Electric current(>A) setting range	1~40/63A
过电压 (>U) 设置范围 Overvoltage(>U) setting Range	230~300V	欠压 (<U) 设定范围 Undervoltage(<U) setting Range	210~140V
额定电流 Rated Current	40/63A(以产品标签为准 subject to product label)	>U 和 <U 跳闸延迟 >U And <U Trip Delay	0.1~30S
重置 / 启动延迟 Reset/Start Delay	1~600S	电压测量精度 Voltage measurement accuracy	2%(不超过总范围的2% Not exceeding 2% of the overall range)
额定绝缘电压 Rated Insulation Voltage	400V	输出触点 Output contact	1NO
电气寿命 Electrical life	10 ⁶	机械寿命 Mechanical life	10 ⁶
防护等级 Protection Degree	IP20	污染程度 Pollution Degree	3
海拔高度 Altitude	≤2000m	工作温度 Operating temperature	-50°C ~ 55°C
湿度 Humidity	≤50%at40°C (无冷凝 without condensation)	储存温度 Storage temperature	-30°C ~ 70°C

默认设置 Default setting

技术参数 Technical Parameter	设定范围 Setting range	步骤 Step	出厂设置 Factory Setting
过电流保护值 Over-current protection value	230V-300V	1V	280V
欠压保护值 Under-voltage protection value	210V-140V	1V	160V
电压保护动作时间 Voltage protection action time	0.1~30S	0.1S	1S
过电流保护值 Over-current protection value	1-40/63A/OFF	0.1A	40/63A
过电流保护动作时间 Over-current protection action time	0.1~30S	0.1S	1S
连续过电流保护次数 Continuous overcurrent protect times	A01-A20/OFF	A01	OFF
恢复延迟时间 Recovery delay time	1~600S	1S	5S

现行规范 Current Specification	15A	25A	32A	40A	50A	63A
额定工作电流 (In, A) Rated Operating current(In,A)	15	25	32	40	50	63
最大工作电流 Imax (A, 10分钟内) Max Operating Current Imax(A, within 10min)	25	30	40	50	60	80
负载最大功率 (KW) Max power of load(KW)	3.6	5.5	7	8.8	11	13.9

功能设置 Function Setting

显示电压 Display voltage
Click "SET" to set 点击 SET 设置

过电压保护值 230-300/oFF
Over-voltage protection value 230-300/oFF
Click "SET" to set 点击 SET 设置

欠压保护值 320-140/OFF
Under-voltage protection value 210-140/OFF
Click "SET" to set 点击 SET 设置

电压保护动作时间 0.1-30S
Voltage protection action time 0.1-30S
Click "SET" to set 点击 SET 设置

过电流保护值 1-40/63A
Over-current protection value 1-40/63A
Click "SET" to set 点击 SET 设置

过电流保护动作时间 0.1-30S
Over-current protection action time 0.1-30S
Click "SET" to set 点击 SET 设置

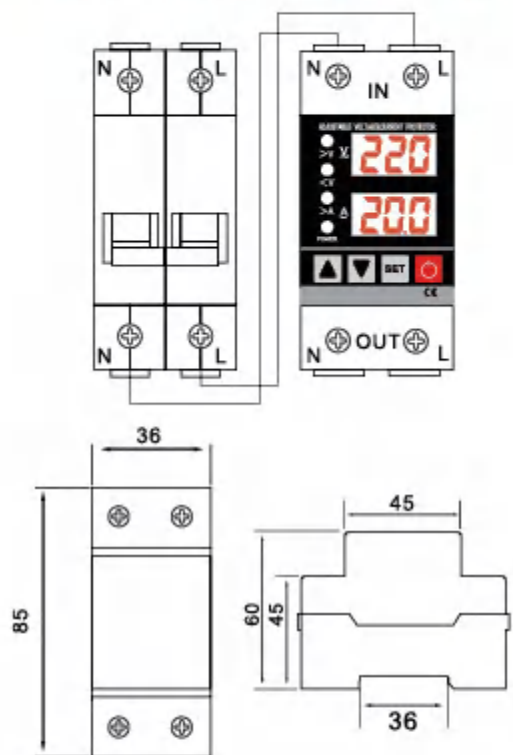
连续过电流保护次数 A01-A20/oFF
Continuous overcurrent protect times A01-A20/oFF
Click "SET" to set 点击 SET 设置

恢复延迟时间 1-600S
Recovery delay time 1-600S
Click "SET" to set 点击 SET 设置

长按设置 5 秒保存 Long press set for 5 seconds to save

长按 ▲ ▼ 可快速调整数字加或减
To adjust the figure quickly by long time press the add or subtract key

接线和形状尺寸 Wiring and shape dimensions



技术参数 Technical Data

额定电源电压 Rated supply voltage	AC 220V	工作电压范围 Operation voltage range	AC 80V~350V
额定频率 Rated frequency	50/60Hz	过电压 (>U) 设置范围 Overvoltage(>U) setting Range	230~300V
欠电压 (<U) 设置范围 Undervoltage(<U) setting Range	210~140V	额定电流 Rated Current	40/63A (以产品标签为准 subject to product label)
>U 和 <U 跳闸延迟 >U And <U Trip Delay	0.5S	重置 / 启动延迟 Reset/Start Delay	1~600S
电压测量精度 Voltage measurement accuracy	2% (不超过总范围的 2% Not exceeding 2% of the overall range)	额定绝缘电压 Rated Insulation Voltage	400V
输出触点 Output contact	1NO	电气寿命 Electrical life	10 ⁴
机械寿命 Mechanical life	10 ⁴	防护等级 Protection Degree	IP20
污染程度 Pollution Degree	3	海拔高度 Altitude	≤2000m
工作温度 Operating temperature	-50°C ~ 55°C	湿度 Humidity	≤50%at40°C (无冷凝 without condensation)
储存温度 Storage temperature	-30°C ~ 70°C		

NP3-V

默认设置 Default setting

技术参数 Technical Parameter	设定范围 Setting range	步骤 Step	出厂设置 Factory Setting
过电压保护值 Over-Voltage Protection Value	230~300V	1V	280V
欠压保护值 Under-Voltage Protection Value	210~140V	1V	160V
恢复延迟时间 Recovery delay time	1~600s	1s	5s

功能设置 Function Setting

接线和形状尺寸 Wiring and shape dimensions

显示电压 Display voltage
Click SET to set 点击 SET 设置

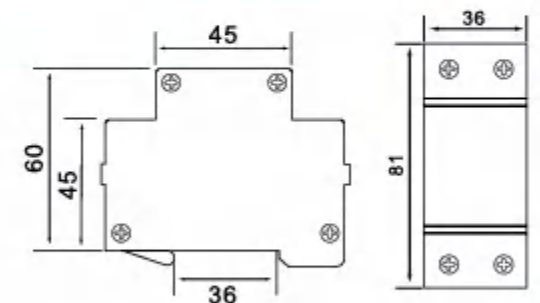
过电压保护值 230-300V
Over-voltage protection value 230-300V
Click SET to set 点击 SET 设置

欠压保护值 210-140V
Under-voltage protection value 210-140V
Click SET to set 点击 SET 设置

恢复延迟时间 1-600S
Recovery delay time 1-600S
Click SET to set 点击 SET 设置

长按设置 5 秒钟即可保存
Long press set for 5 seconds to save

长按 ▲ ▼ 可快速调整数字加或减
To adjust the figure quickly by long time press the add or subtract key





NP3-A

技术参数 Technical Data

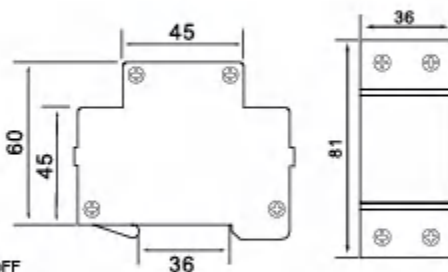
额定电源电压 Rated supply voltage	AC 220V	工作电压范围 Operation voltage range	AC 80V~350V
额定频率 Rated frequency	50/60Hz	电流 (>A) 设定范围 Electric current(>A) setting range	1~40/63A
额定电流 Rated Current	40/63A(以产品标签为准 subject to product label)	>U 和 <U 脱扣延迟 >U And <U Trip Delay	0.5S
重置 / 启动延迟 Reset/Start Delay	1~600S	电压测量精度 Voltage measurement accuracy	1%(超过总范围的2% Not exceeding 2% of the overall range)
额定绝缘电压 Rated Insulation Voltage	400V	输出触点 Output contact	1NO
电气寿命 Electrical life	10 ⁶	机械寿命 Mechanical life	10 ⁶
防护等级 Protection Degree	IP20	污染程度 Pollution Degree	3
海拔高度 Altitude	≤2000m	工作温度 Operating temperature	-50℃ ~ 55℃
湿度 Humidity	≤50%at40℃ (无冷凝 without condensation)	储存温度 Storage temperature	-30℃ ~ 70℃

默认设置 Default Setting

技术参数 Technical Parameter	设定范围 Setting range	步骤 Step	出厂设置 Factory Setting
过电流保护值 Over-current protection value	1~40/63A	0.1A	40/63A
恢复延迟时间 Recovery delay time	1~600s	1S	5S
连续过电流保护次数 Continuous overcurrent protect times	A01~A20/oFF	A01	oFF

功能设置 Function Setting

接线和形状尺寸 Wiring and shape dimensions



长按 (▲) (▼) 可快速调整数字加或减
To adjust the figure quickly by long time press the add or subtract key

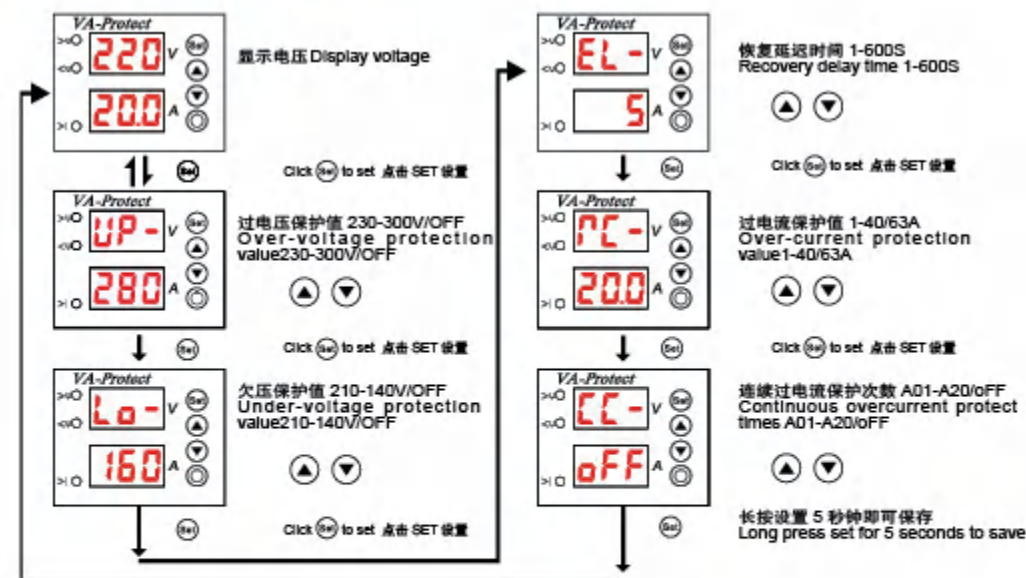


NP4-VA

技术参数 Technical Data

额定电源电压 Rated supply voltage	AC 220V	工作电压范围 Operation voltage range	AC 80~400V(单相 single phase)
额定频率 Rated frequency	50/60Hz	电流 (>A) 设定范围 Electric current(>A) setting range	1~40/63A
过电压 (>U) 设置范围 Overvoltage(>U) setting Range	230~300V	欠压 (>U) 设定范围 Undervoltage(>U) setting Range	210~140V
额定电流 Rated Current	40/63A(以产品标签为准 subject to product label)	>U 和 <U 脱扣延迟 >U And <U Trip Delay	0.5S
重置 / 启动延迟 Reset/Start Delay	1~600S	电压测量精度 Voltage measurement accuracy	3%(不超过总范围的3% Not exceeding 3% of the overall range)
额定绝缘电压 Rated Insulation Voltage	400V	输出触点 Output contact	1NO
电气寿命 Electrical life	10 ⁶	机械寿命 Mechanical life	10 ⁶
防护等级 Protection Degree	IP20	污染程度 Pollution Degree	3
海拔高度 Altitude	≤2000m	工作温度 Operating temperature	-50℃ ~ 55℃
湿度 Humidity	≤50%at40℃ (无冷凝 without condensation)	储存温度 Storage temperature	-30℃ ~ 70℃

功能设置 Function Setting



长按 (▲) (▼) 可快速调整数字加或减
To adjust the figure quickly by long time press the add or subtract key

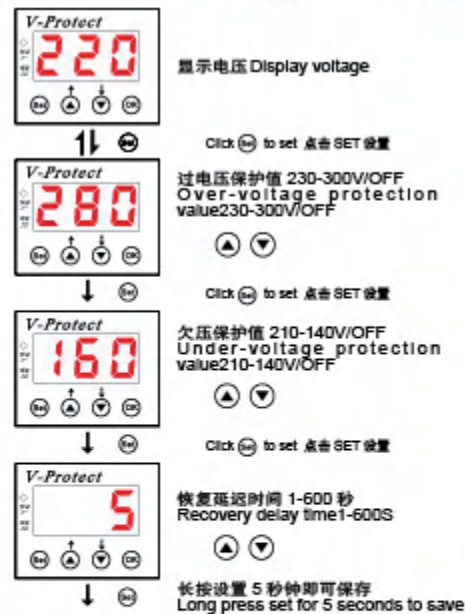


NP4-V

技术参数 Technical Data

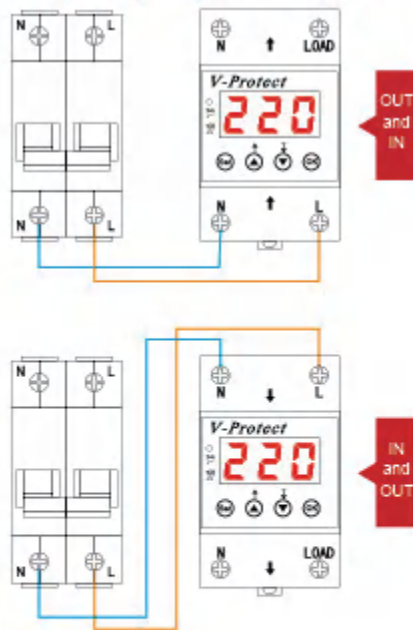
额定电源电压 Rated supply voltage	AC 220V	工作电压范围 Operation voltage range	AC 80V~350V
额定频率 Rated frequency	50/60Hz	电流 (>A) 设定范围 Electric current(>A) setting range	1~40/63A
额定电流 Rated Current	40/63A(以产品标签为准 subject to product label)	>U 和 <U 跳闸延迟 >U And <U Trip Delay	0.5S
重置 / 启动延迟 Reset/Start Delay	1~600S	电压测量精度 Voltage measurement accuracy	1%(不超过总范围的2%Not exceeding 2% of the overall range)
额定绝缘电压 Rated Insulation Voltage	400V	输出触点 Output contact	1NO
电气寿命 Electrical life	10 ⁴	机械寿命 Mechanical life	10 ⁴
防护程度 Protection Degree	IP20	污染程度 Pollution Degree	3
海拔高度 Altitude	≤2000m	工作温度 Operating temperature	-50℃ ~ 55℃
湿度 Humidity	≤50%at40℃ (无冷凝 without condensation)	储存温度 Storage temperature	-30℃ ~ 70℃

功能设置 Function Setting



长按 (▲) (▼) 可快速调整数字加或减
To adjust the figure quickly by long time press the add or subtract key

接线和形状尺寸 Wiring and shape dimensions



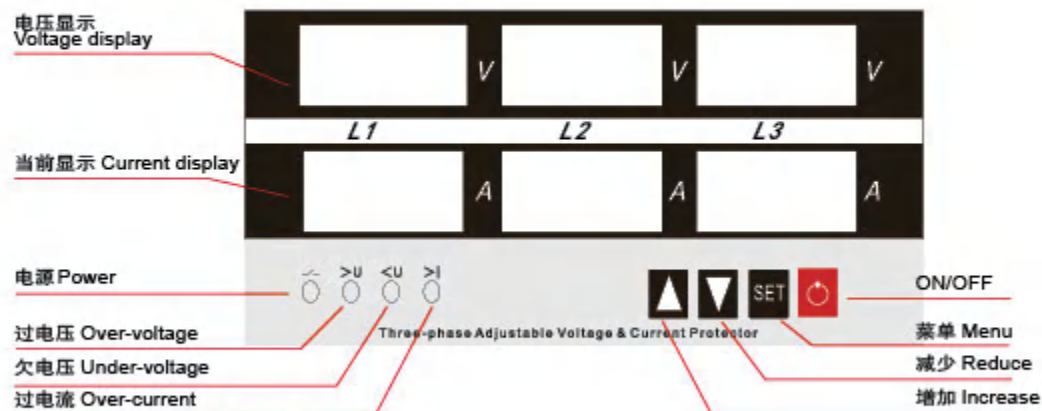
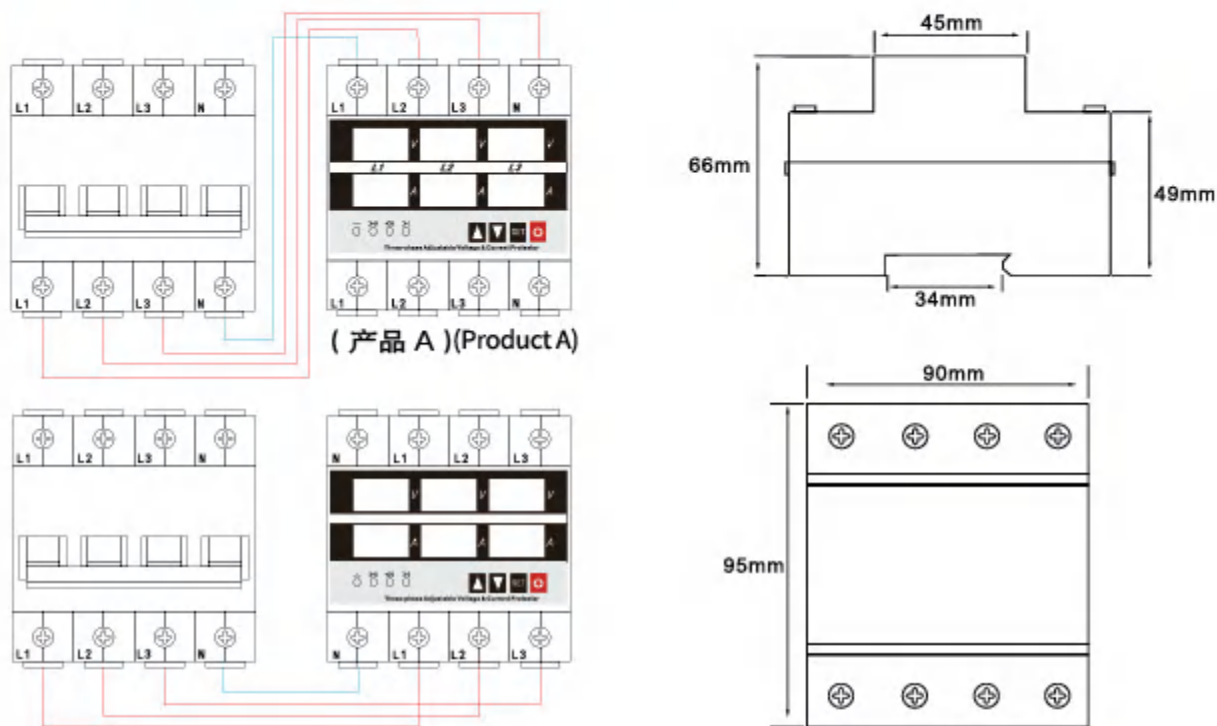
NP6-VA

技术参数 Technical Data

额定电源电压 Rated Supply Voltage	AC 220V	AC 380V
额定频率 Rated Frequency	50/60Hz	
工作电压范围 Operation Voltage Range	AC 80~400V(三相 three phase)	AC 140~700V(三相 three phase)
电流 (>A) 设定范围 Electric current(>A) setting range	1~63A/80A	
过电压 (>U) 设置范围 Overvoltage(>U) setting Range	230~300V	390~500V
欠电压 (<U) 设置范围 Undervoltage(<U) setting Range	210~140V	370~260V
额定电流 Rated Current	63A/80A	
>U 和 < 跳闸延迟 >U And < Trip Delay	0.1~30S	
重置 / 启动延迟 Reset/Start Delay	1~500S	
电压测量精度 Voltage Measurement Accuracy	2%	
额定绝缘电压 Rated Insulation Voltage	400V	700V
输出触点 Output contact	3NO	
防护等级 Protection Degree	Ip20	
污染程度 Pollution Degree	3	
工作温度 Operating Temperature	-50℃ ~55℃ (无冷凝 without condensation)	
海拔高度 Altitude	≤2000m	
湿度 Humidity	≤50%at40° C (无冷凝 without condensation)	
储存温度 Storage Temperature	-30℃ ~70℃	

额定电源电压 Rated supply voltage	AC 220V				AC 380V			
现行规范 Current specification	40A	63A	80A	100A	40A	63A	80A	100A
额定工作电流 (In, A) Rated operating current(In,A)	40	63	80	100	40	63	80	100
额定工作电流 (In, A) Maximum operating current (max(A,with 10 min)	63A	80A	100A	125A	63A	80A	100A	125A
负载最大功率 (KW) Max power of load(KW)	8.8	13.9	17.6	22	15.2	24	30.4	38

接线和外形尺寸 Wiring and shape dimensions



功能设置 Function Setting



长按 可快速调整数字加或减
To adjust the figure quickly by long time press the add or subtract key



NP7-PS

技术参数 Technical Data

额定电源电压 Rated supply voltage	AC 220V
工作电压 Rated frequency of working voltage	AC 80V-400V (单相 single phase)
额定频率 Rated frequency	50/60Hz
电流 (>A) 设定范围 Current (>A) setting range	63A/80A/100A
过电压 (>U) 设定范围 Overvoltage (>U) setting range	230-300V
欠电压 (<U) 设定范围 Undervoltage (<U) setting range	210-140V
复位 / 启动延迟 Reset/Start Delay	1-30s
电压测量精度 Voltage measurement accuracy	2% (不超过全部范围的 2%/Not exceeding 2% of the entire range)
额定绝缘电压 Rated insulation voltage	400V
输出触点 Output contact	3NO
电气寿命 Electrical life	10 ⁵
机械寿命 Mechanical life	10 ⁵
防护等级 Protection grade	IP20
污染程度 Pollution level	3
海拔高度 Altitude	< 2000m
工作温度 Operation temperature	-50℃ ~55℃
湿度 Humidity	≤50% 在 40℃ (无冷凝 No condensation)
储存温度 Storage temperature	-30℃ ~ 70℃

默认设置 Default setting

技术参数 Technical Parameter	设定范围 Setting range	步骤 Step	出厂设置 Factory Setting
过电压保护值 Over-Voltage Protection Value	AC230V-300V	1V	AC270V
欠压保护值 Under-Voltage Protection Value	AC210V-140V	1V	AC170V
恢复延迟时间 Recovery delay time	1S-30S	1S	1S

功能设置 Function Setting



按 H 键可设置过电压值, 再短按或长按可调整过电压值
Press the H key to set the overvoltage value, and then short or long press to adjust the overvoltage value



完成后按 SAVE 保存
Press SAVE to save after completion

230-300V



按下 L 键可设置欠压值, 再次短按或长按可调整欠压值
Press the L key to set the undervoltage value, and short or long press again to adjust the undervoltage value



完成后按 SAVE 保存
Press SAVE to save after completion

210-140V



按 TIME 键可设置延迟恢复时间值, 再次短按或长按可调整延迟恢复的值
Press the TIME key to set the delayed recovery time value, and short or long press again to adjust the delayed recovery value

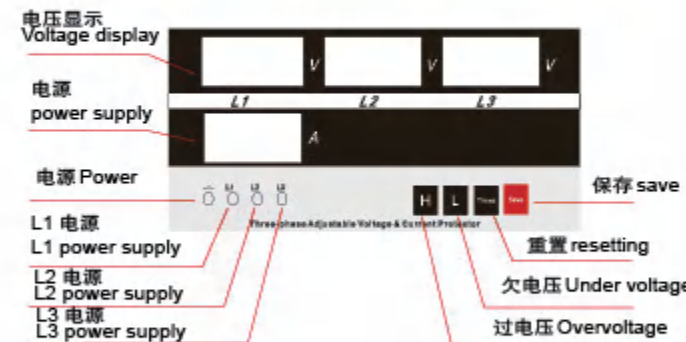
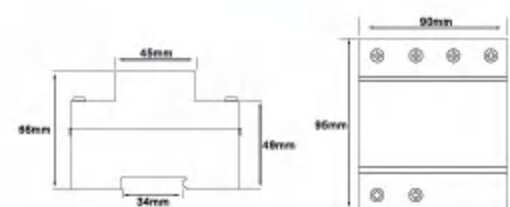
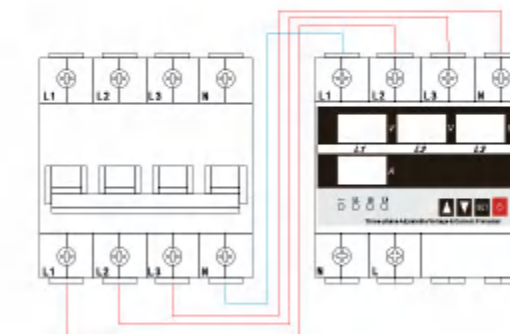


完成后按 SAVE 保存
Press SAVE to save after completion

1-30S

功能描述: 当 L1、L2、L3 的一相过电压、欠电压过流或缺相时, 继电器将断开并自动搜索正常相, 并切换至断开正常相的继电器, 切换优先级为 L1>L2>L3
Function description: When one phase overvoltage, undervoltage overcurrent, or phase loss occurs in L1, L2, and L3, the relay will disconnect and automatically search for the normal phase, and switch to the relay that disconnects the normal phase. The switching priority is L1>L2>L3

接线和形状尺寸 Wiring and shape dimensions



Di Rail Display Meter

Accurate Display Safe And Flame Retardant
To Ensure Circuit Safety



技术参数 Technical Parameter

电压显示范围 Voltage Display Range	AC 80V-500V
频率范围 Frequency Range	AC 50~60Hz
颜色 Color	Red
误差范围 Discrepancy Range	± 2%
额定绝缘电压 Rated Insulation Voltage	660V
采样率 Sampling Rate	1time /s
输入回路功耗 Input loop power consumption	≤2VA
海拔高度 Altitude	≤2000m
环境温度 Ambient Temperature	-50~55℃
湿度 Humidity	50% and 40° C Condensation free 无冷凝
储存温度 Storage Temperature	-30℃ ~70℃



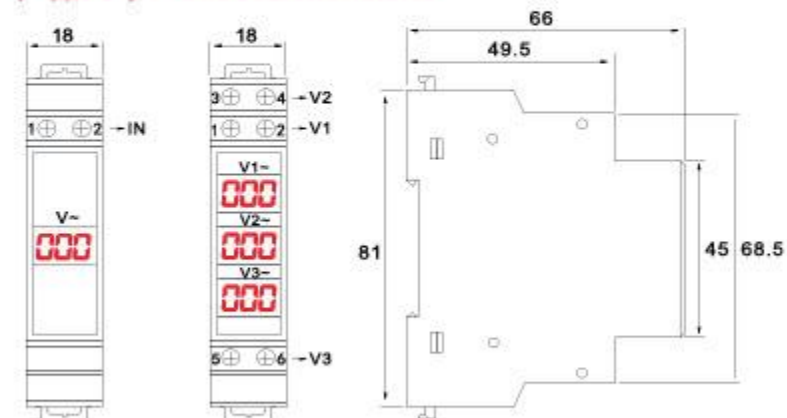
NV-1P



NV-3P

本产品禁止用于变频器、逆变器、有高频谐波干扰的电力环境。
This product is prohibited using for frequency conversion, inverter, the power environment with high harmonic interference.

产品尺寸 Product Dimensions





NA-1P

技术参数 Technical Parameter

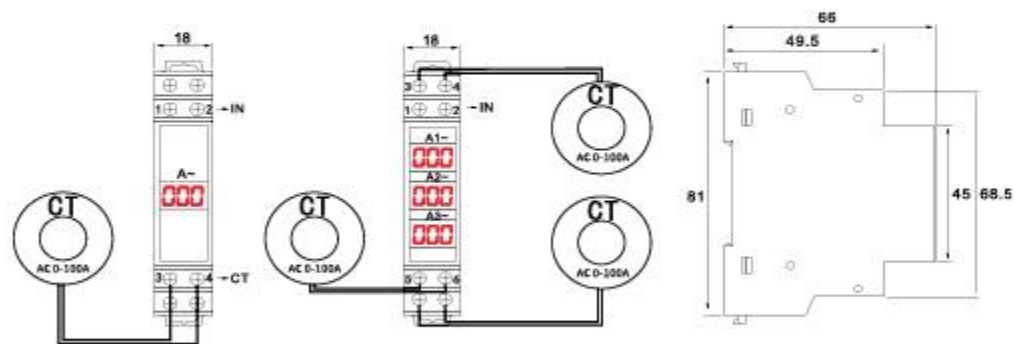
电源电压 / 频率范围 Supply Voltage / Frequency Range	AC 80V-500V / 50-60Hz
电源电压 / 频率范围 Current Range	AC 0-100A
颜色 Color	Red
误差范围 Discrepancy Range	± 2%
额定绝缘电压 Rated Insulation Voltage	660V
采样率 Sampling Rate	1 time /s
输入回路功耗 Input loop power consumption	≤2VA
海拔高度 Altitude	≤2000m
环境温度 Ambient Temperature	-50~55℃
湿度 Humidity	50% and 40° C Condensation free 无冷凝
储存温度 Storage Temperature	-30℃ ~70℃

- 本产品禁止用于变频器、逆变器、有高频谐波干扰的电力环境。
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产品尺寸 Product Dimensions



NA-3P



NHZ-1P

技术参数 Technical Parameter

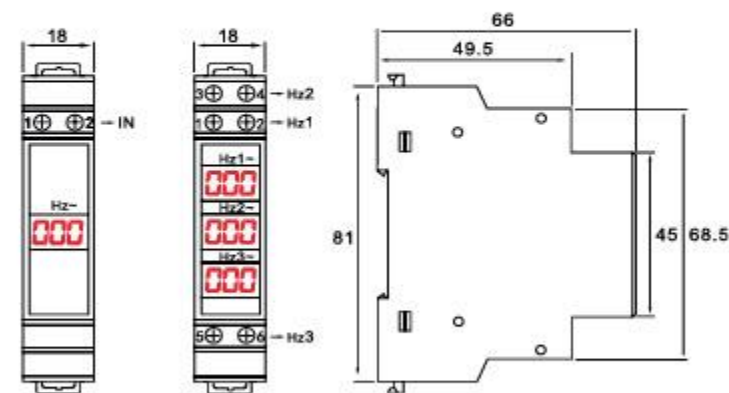
电源电压 Supply Voltage	AC 80V-500V
频率测量范围 Frequency Measurement Range	AC 0~99Hz
颜色 Color	Red
误差范围 Discrepancy Range	± 2%
额定绝缘电压 Rated Insulation Voltage	660V
采样率 Sampling Rate	1 time/s
输入回路功耗 Input loop power consumption	≤2VA
海拔高度 Altitude	≤2000m
环境温度 Ambient Temperature	-50~55℃
湿度 Humidity	50% and 40° C Condensation free 无冷凝
储存温度 Storage Temperature	-30℃ ~70℃

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This product is prohibited using for frequency conversion, inverter, the power environment with high harmonic interference.

产品尺寸 Product Dimensions



NHZ-3P





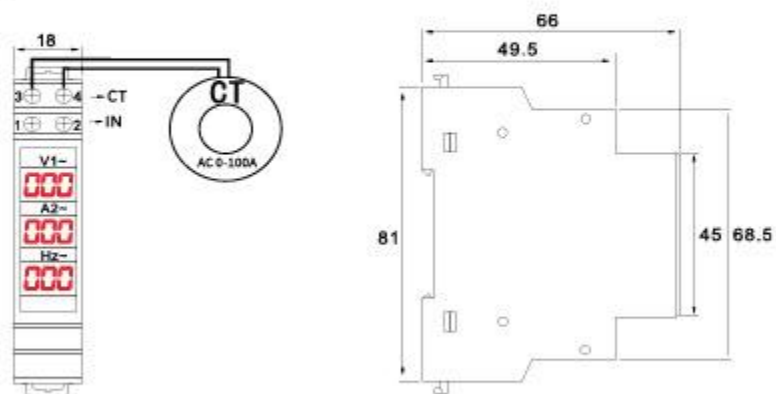
NVAHz-1P

技术参数 Technical Parameter

电压 / 频率测量范围 Voltage / Frequency Measurement Range	AC 80V-500V / 0-99Hz
电流测量范围 Current Measurement Range	AC 0-100A
颜色 Color	Red
误差范围 Discrepancy Range	± 2%
额定绝缘电压 Rated Insulation Voltage	660V
采样率 Sampling Rate	1 time/s
输入回路功耗 Input loop power consumption	≤2VA
海拔高度 Altitude	≤2000m
环境温度 Ambient Temperature	-50~55℃
湿度 Humidity	50% and 40° C Condensation free 无冷凝
储存温度 Storage Temperature	-30℃ ~70℃

- 本产品禁止用于变频器、逆变器、有高次谐波干扰的电力环境。
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产品尺寸 Product Dimensions



NDM1-63

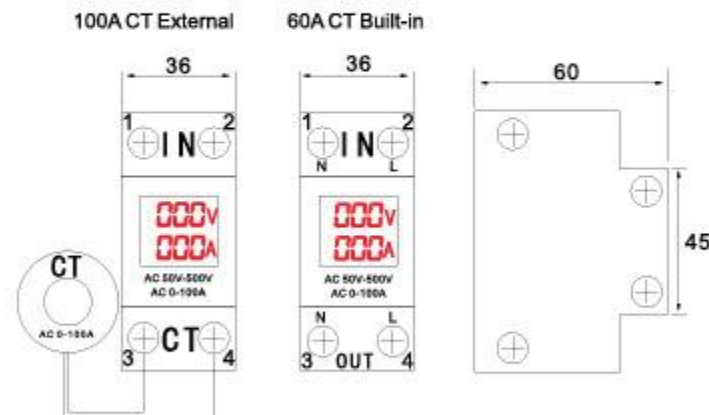
技术参数 Technical Parameter

电源电压 / 频率范围 Supply Voltage / Frequency Range	AC 50V-500V / 50-60Hz
误差范围 Discrepancy Range	± 2%
工作电压范围 Operating Voltage Range	AC 50-500V
额定绝缘电压 Rated Insulation Voltage	660V
当前显示范围 Current Display Range	AC 1-100A AC 1-63A
防护等级 Degree of Protection	IP20
环境保护等级 Environmental Protection Rating	3
海拔高度 Altitude	≤2000m
采样率 Sample rate	1 time/s
环境温度 Ambient Temperature	-50~55℃
湿度 Humidity	50% and 40° C Condensation free 无冷凝
储存温度 Storage Temperature	-30℃ ~70℃

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This product is prohibited using for frequency conversion, inverter, the power environment with high harmonic interference.



NDM1-100



技术参数 Technical Parameter



N52-2042

精度 Accuracy	1%
显示模式 Display mode	0.5 英寸 LED 数码管 0.5 inch LED digital tube
范围 Range	交流电压: 80~300V, 200~450V (您应该根据订单选择测量范围) AC voltage: 80~300V, 200~450V (You should select the one of measuring range in your order) 交流电流: 0.1~99.9A (电流大于 100A 时应单独订购电流互感器) AC current: 0.1~99.9A (You should order current transformer when current is higher than 100A independent)
采样率 Sampling rate	1 time/s
大小 Size	54*80*64 mm
安装 Installation	Din 导轨 Din-rail

应用方法 Application Method

1. 将测量电压连接到仪表左下角的 1 和 2 端子。
2. 如图一所示安装电流互感器。将二次变压器的导线连接到仪表表面的 3 号和 4 号端子上。将测量导线穿过电流互感器的孔。
3. 如果测量的电流在 0.1 到 99.9A 之间, 见图 2, 你只能通过电线穿过电表底部的孔来获得电流, 插入的方向不会影响测量结果。

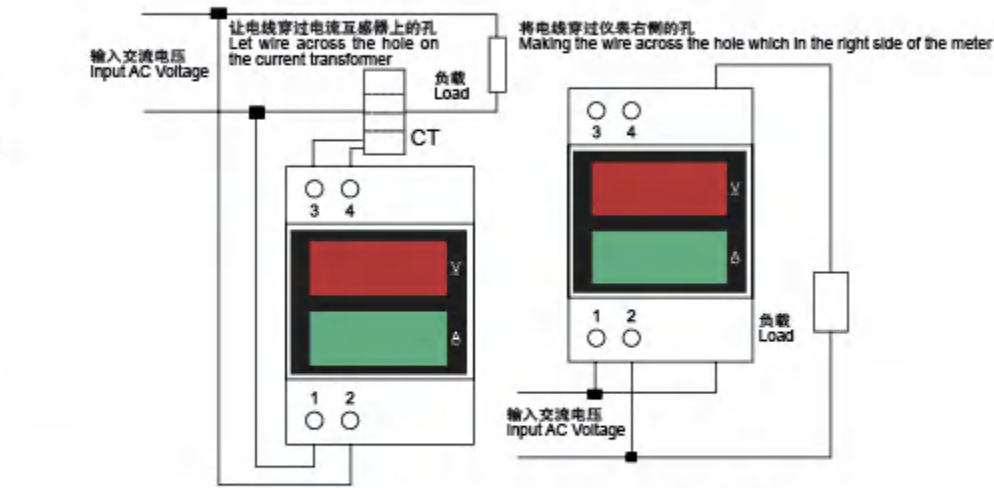


图 1: 安装电流互感器
Graph 1: Install current transformer

图 2: 交流电流低于 100A 时的连接图
Graph 2: Connect graph when AC current lower than 100A

N52-2042

技术参数 Technical Parameter



N52-2066

精度 Accuracy	1% ± 2 words
范围 Range	交流电压: AC 40.0-300.0V 或 AC 200.0-450.0V (您应该在订单中选择一种类型的电表) AC voltage: AC 40.0-300.0V or AC 200.0-450.0V (You should select one type of the meter in your order) 交流电流: 0.1~99.9A (当电流高于 100A 时, 应订购电流互感器) AC current: 0.1~99.9A (You should order current transformer when current is higher than 100A independent) 频率: 45.0Hz-65.0Hz Frequency: 45.0Hz-65.0Hz 功率因数: 0.00-1.00PF Power Factor: 0.00-1.00PF 功率: 0-450000W, 测量 0-9999.9W 之间的功率时, 功率分辨率为 0.1W, 否则功率分辨率为 1W。 Electric Power: 0-450000W, the electric power resolution is 0.1W when measure electric power between 0-9999.9W, otherwise the electric power resolution is 1W. 电能: 0-99999kwh, 当测量电能 0-9999.9kwh 之间时, 电能分辨率为 0.01kwh, 当测量电能 1000.0-999.9kwh 之间时, 电能分辨率为 0.1kwh, 测量电能大于 9999.9kwh 时, 电能分辨率为 1kwh Electric Energy: 0-99999kwh, the display of electric energy resolution is 0.01kwh when measure electric energy between 0-9999.9kwh, the display of electric energy resolution is 0.1kwh when measure electric energy between 1000.0-9999.9kwh and the display of electric energy resolution is 1kwh when measure electric energy larger than 9999.9kwh
采样率 Sampling rate	2 times per second
大小 Size	54*80*64 mm
安装 Installation	Din-rail

应用方法 Application Method

1. 将测量电压连接到 1 和 2 端子
2. 仪表与内部电流互感器的连接, 如图 1 所示。使电线穿过仪表上的孔, 并任意选择方向。
3. 仪表与外部电流互感器的连接, 如图 2 所示。将电线穿过仪表上的孔, 并将二次变压器的两根电线连接到 3 和 4 端子。
4. 通电时, 仪表显示测量参数。
5. 通电时, 可以持续按下 SAM CK 按钮 5 秒, 然后释放按钮时电能将为零并开始累积。在断电时, 电表可以节省电能的价值, 并在下一次电表通电时继续累积数据。

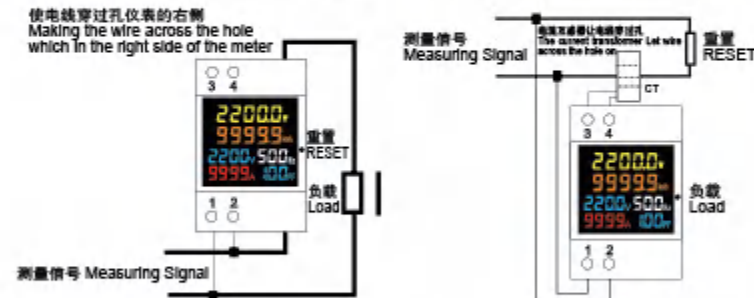


图 2: 交流电流时的连接图低于 100A
Graph 2: Connect graph when AC current lower than 100A

图 1: 安装电流互感器
Graph 1: Install current transformer