RELIABILITY

Be installed in unmanned systems, and can guarantee service continuity and a considerable reduction in maintenance costs.

CONTINUOUS SAFETY

Guarantee total continuity under any condition: in the case of untimely tripping

PROTECTION

Restore the power supply only after checking there are no faults in the system

VERSATILITY

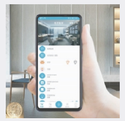
Available for 2P and 4P

Application scenarios

Telecommunications

- Telecom Tower stations
- Internet network distribution stations
- Telephone repeaters
- Radio links

Residentials



- Telecom Tower stations
- Internet network distribution stations
- Telephone repeaters
- Radio links

Public Service

- Public lighting
- Light signals
- Light signals
- Advertising panels
- Traffic light systems

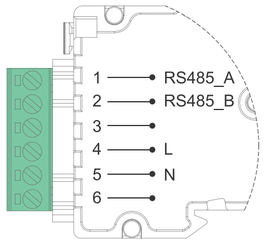
Transportation

- Railway stations
- Highway
- Airports
- Bus terminals

Green Energy

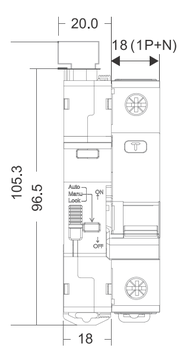
- Electric car charging network
- Photovoltaic systems

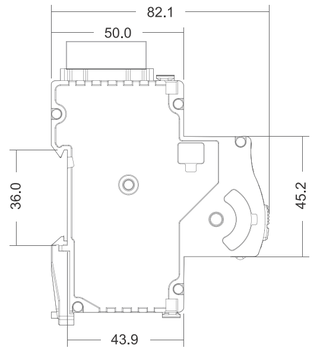
Terminals



Port	Explanation
1	Modbus protocol
2	Modbus protocol
3	Undefined
4	Live Line
5	Neutral line
6	Undefined

Dimensions





www.matismart.com

mail:Info@matismart.com

Tel:+86 21 6050 3668,+86 18621879631

Add: Room 318-320, No.83,West Huanhu Road, Pudong, Shanghai, China 201306

Technical parameters

Electrical Parameter	
Residual current characteristics	AC,A
Pole No	1P+N
Rated current(A)	6,10,16,20,25,32
Tripping curve	B,C
Rated making and breaking capacity	50/60Hz
Rated residual current	6000A
Rated voltage	240V AC
Rated frequency:	50Hz
Rated residual operating current IΔn(mA)	30、100、300
Tripping duration	instantaneous trippings≤0,1s
Electro-mechanical endurance	4000 cycles
Connection capacity	Rigid conductor 25mm²
Diameter of screw D(mm)	M4
IP protection grade	IP20
Tightening torque	1.2N.m
Wiring height	H1=19mm, H2=22mm
Electrical Characteristis for MT53RV	
Width	18mm(1 module)
Power Distribution System	TT - TN - S
Rated Voltage(Ue)	230V AC (1)
Min Rated Voltage(Min Ue)	45V
Max Rated Voltage(Max Ue)	305V
Rated Insulation Voltage(Ui)	500V
Diaelectric Strength	2500V AC for 1 minute
Rated Withstand Voltage(Uimp)	4kV
Over-voltage Category	III
Rated Frequency	50Hz
Power During Remote Control	20VA
Static Power	1VA
Leakage Making/Breaking Capability (IΔm)	IΔm of related circuit breakers
Rated Condition Residual Short Circuit Current (IΔc)	IΔc of related circuit breakers
Handle Length	1 - 2
Rated current (In)	In of related circuit breakers
Rated Residual Operating Current (IΔn)	IΔn of related circuit breakers
Mechanical Characteristics for MT53RV	
Width in DIN module	1
Maximum Operating Frequency	30open./h
Maximum Mechanical Durability (Total Number of Operations)	10000
Maximum Number of Continuous Auto-reclosings	3
Protection Grade	IP20(outside the cabinet) IP40 (inside the cabinet)
Circuit Breaker Terminal Section	Soft wire: ≤ 1x16mm2 Hard wire: ≤ 1x25mm2
Enviroment Characterisics	
Pollution Grade	2
Temperature	-25°C +60°C
Storage Temperature	-40°C +70°C
Relative Humidity	55°C - RH 95%
Over/Under Voltage Characteristics	
Overvoltage Protection Value	≥295±10V
Overvoltage Recovery Value	≤270±10V
Overvoltage Reaction Time	10s
Undervoltage Protection Value	≤170±10V
Undervoltage Protection Reaction Time	4.5s
Undervoltage Recovery Reaction Time	10s
Undervoltage Recovery Value	0.4Nm
Communication parameters	
Baudrate	Default as 9600, Configurable
Check Digit	No Check digit
Data Digit	8
Stop Digit	1
Device Address	Factory Default Address:1
Auto Reclose Function	
Auto Reclose When Electric Fault Trip	●
Reclose Stops when Fault	●
Fault Signal Indicator	●
Function of Auto / Manual	●
Auxiliary Contact for Remote Operation	●
Internal Electrical Protection	PTC

matismart

AIoT Electric

Auto Reclosing RCBO MT53RV+MRO50

Power on with intelligence, safer and more efficient.

Auto Reclosing RCBO MT53RV+MRO50

The self-resetting overvoltage protector has the following functions:

> Over voltage automatic disconnection

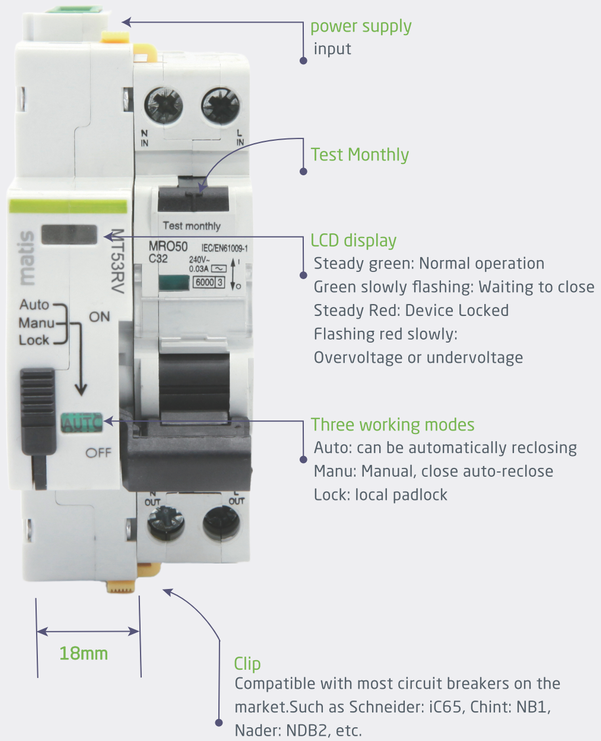
> Automatic disconnection for undervoltage

> After the reclosing exceeds the specified number of times, the reclosing function will be self-locked

> The normal working voltage is automatically turned on

> The front window indicates the working status of the product

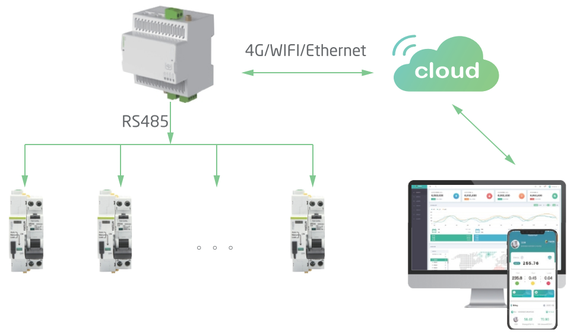
> Installation method: modular assembly



Functions

RS485 Control

MT53RV can be connected to Gateway by RS485 and Modbus protocol ,then gateway can be connected Internet by different types communication such 4G, Wifi, Ethernet .Then the MT53RV can be controlled by App or Web sotware



Self resetting overvoltage and undervoltage

Overvoltage trip, undervoltage trip, voltage recovery automatic reclosing

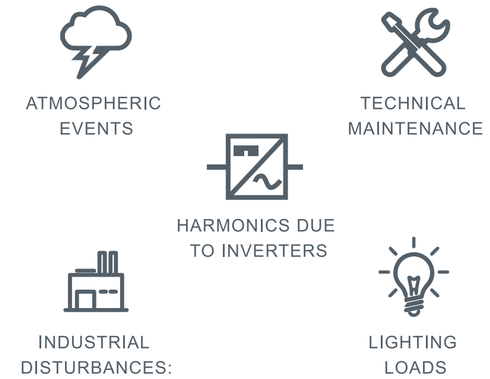
Overvoltage	Undervoltage
recovery:295±10V	recovery:170±10V
trip:≥270±10V	trip:≥195±10V
O/V	U/V

Recloser

Auto Reclosing RCBO can be used in the following scenarios to guarantee service continuity and protection:

- In the event of nuisance tripping of the circuit breaker.
- When there is a fault in the system.
- For any type of supervised or unsupervised residential, commercial or industrial system.

Nuisance tripping of the residualcurrent device: the causes



Nuisance tripping of the residual current device: the causes

Type Code Description

For example:

MT53RV+MRO50-1P+N C63A 300mA/A+S

M	Company
T	Control, automatic reclosing device
53	Serial number: 53
R	Function code: R: Remote Control
V	V: Overvoltage/undervoltage protector
+	
M	Company
RO	RCBO
50	Product model
N	Breaking capacity: N: 6KA (can be omitted) H: 10KA (can be omitted)
-	
1P+N	Number of poles:1P+N
C	Trip curve: A curve, B curve, C curve
63	Rated current(In): 16A,20A,25A,32A,40A,63A,80A,100A
300mA	Rated residual current: 10mA,30mA,100mA,300mA
/	
A+S	Type Description: Type A, Type AC, Type A+S, Type AC+S