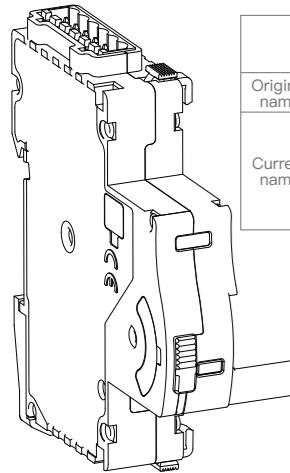
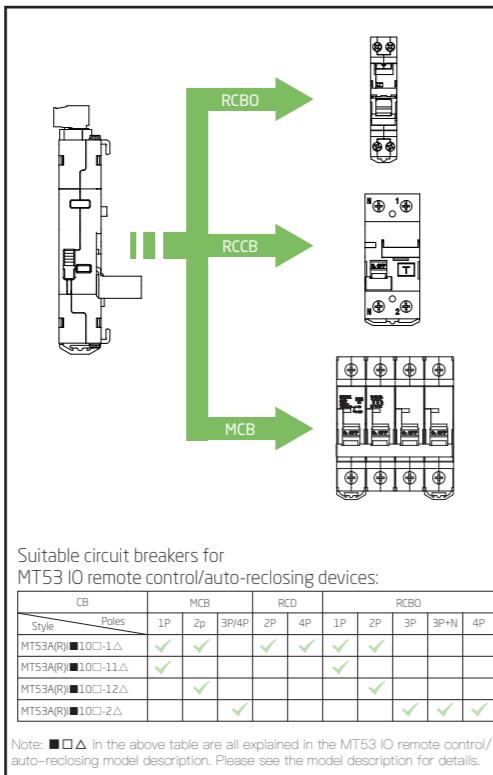


MT53 IO

Remote Control/Auto-reclosing Series Product Manual



	Auto-re-closing Series	Remote Control Series
Original name	MT53AI	MT53RI
Current name	MT53RA MT53RAix	MT53Ri MT53Rix
	MT53RAix	MT53Rix

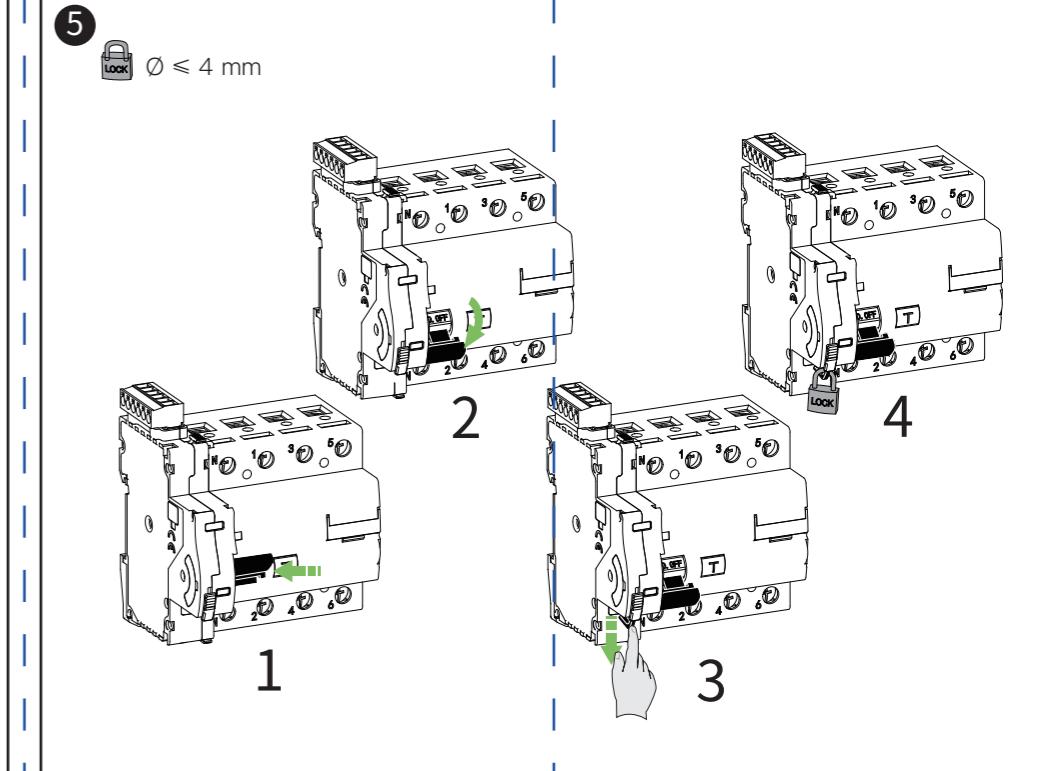
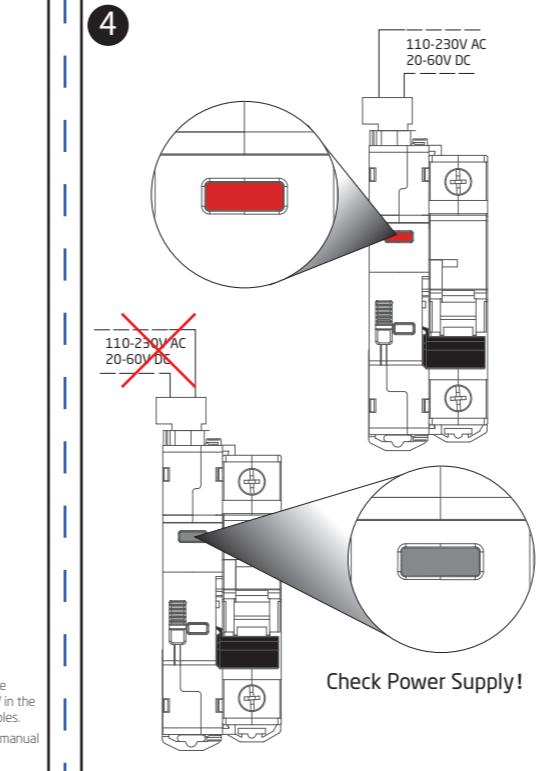
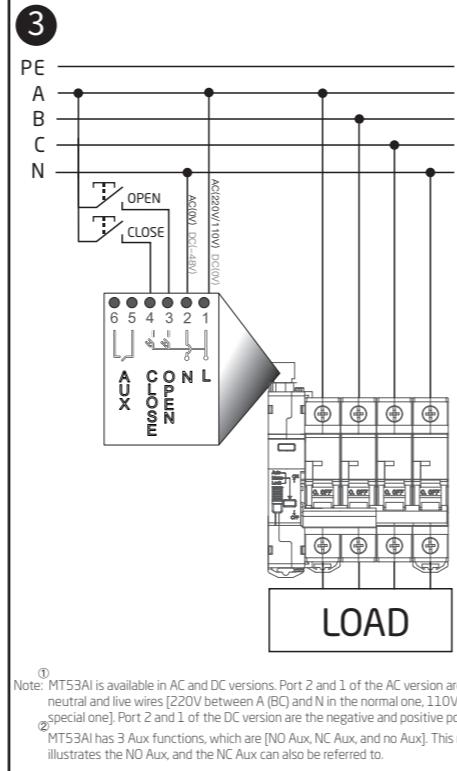
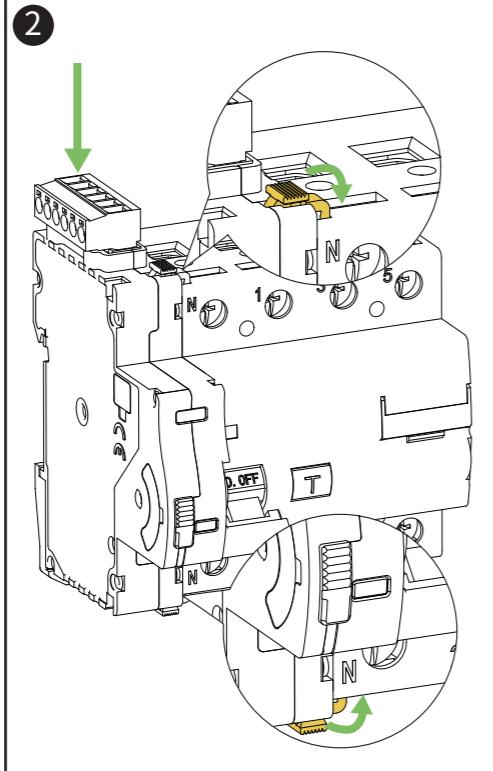
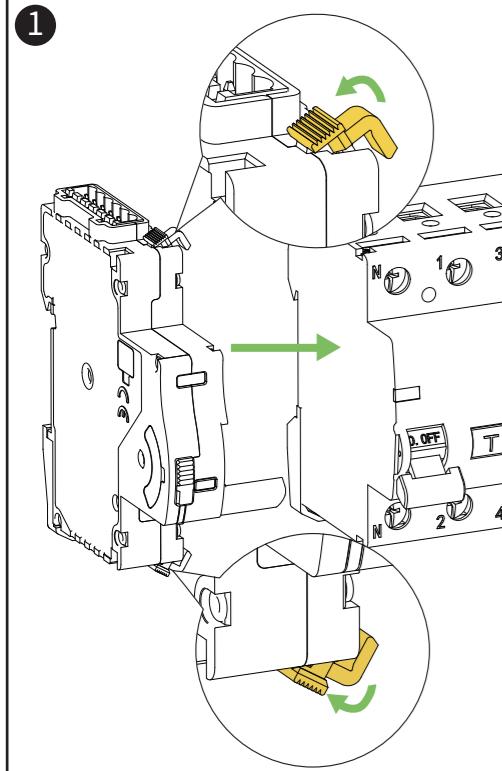


Product Model Description	
For example: MT53AIW10-1N	
M	Company
T	Control, automatic reclosing device
53	Design serial number
A	A:Auto Reclose R:Remote control
I	IO control
10	01: NC Aux 01: NO Aux None: No Aux
N	W:Matis 50 series J:Matis 60 series H:Matis 22 series K:Matis 90 series N:Schneider Acti 9 series MCB/RCBO I:Schneider Acti 9 Series RCD II L:Nader NDB2 MCB/RCCB Z:Chint NB1 MCB C:Chint NL1 RCCB
1	11:18mm handle only to 1P circuit breaker 12:18mm handle only to 2P circuit breaker 1 :18mm handle to 1P/2P circuit breaker 2 :36mm handle to 3P/4P circuit breaker
N	N:AC220V

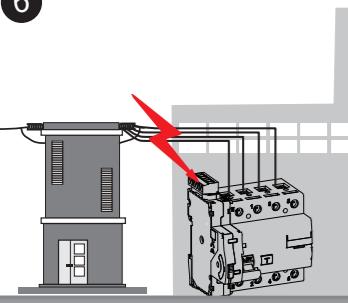
Electrical Characteristics	
Standard	EN 60947-5-1
Power Distribution System	TN-S / TN-C-S / TT
Rated Voltage(Ue)	230V AC (1)
Min Rated Voltage(Min Ue)	85% Ue
Max Rated Voltage(Max Ue)	110% Ue
Rated Insulation Voltage(Ui)	500V
Dielectric Strength	2500V AC for 1 minute
Rated Withstand Voltage(Uimp)	4kV
Over-voltage Category	III
Rated Frequency	50/60Hz
Static Power	1VA
Power of Remote Operation	20VA
Breaking Capacity of Earthleakage (IΔm)	The IΔm of Related Breaker
Rated Residual Short Circuit Current (IΔc)	The IΔc of Related Breaker
Handle Length	1 / 2
MCB Type	1P / 2P / 3P / 4P
RCCB Type	AC / A / B
Rated Current(In)	The In of Related Breaker
Rated Residual Current(IΔn)	The IΔn of Related Breaker
AUX Input	0.4A(max)
Mechanical Characteristics	
The Width of DIN Module	1
Reclosing Time Interval	10s - 60s - 300s
Max Operation Frequency	30open./h
Electrical Life	10000
Max. Auto Reclose Cycle	3
Reclosed Counting Reset Time	60s
Protection Grade	IP20 (Outside Panel) IP40 (Inside Panel)
Terminal Part of Breaker	Soft Cable: ≤ 1x16mm ² Hard Cable: ≤ 1x25mm ²
Enviroment Characteristics	
Pollution Grade	2
Work Temperature	-25°C +60°C
Storage Temperature	-40°C +70°C
Relative Humidity	25°C / RH 95%
Auxiliary Contact Characteristics	
Contact	yes
Contact Type	Electronic Relay
Rated Voltage	5V-230V AC/DC
Rated Current	0.01A (min) -0.4 (max)
Frequency	50Hz
Use Category	AC12
Operation Mode	NO/NC/COM Signal of Handle Position

Warranty

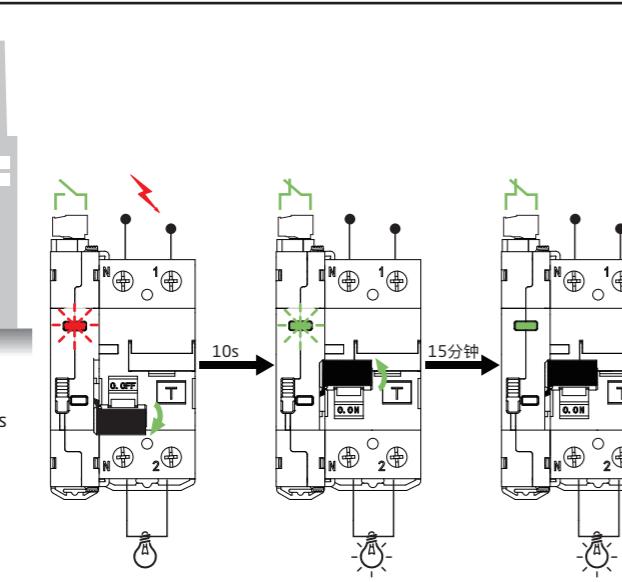
All users who purchase the product enjoy a 24-month warranty period from the date of purchase. During the warranty period, if there is a quality problem which affects normal use, you can enjoy free repair and replacement. In case of irreversible damage caused by improper use, drop, installation and wiring errors, it can be repaired or replaced at a fee within the warranty period. If you disassemble and modify it by yourself, you will not enjoy the warranty service.



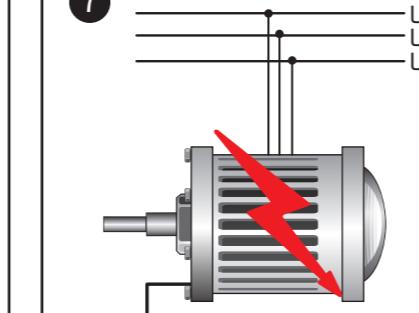
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- Under "Auto" mode, and for instantaneous electrical fault, our recloser will auto reclose after 10s of breaker trips.
- It is defined as successfully reclosed if handle holds more than 15 minutes. After successfully reclosed, previous reclose counting will be cleared and renewed.

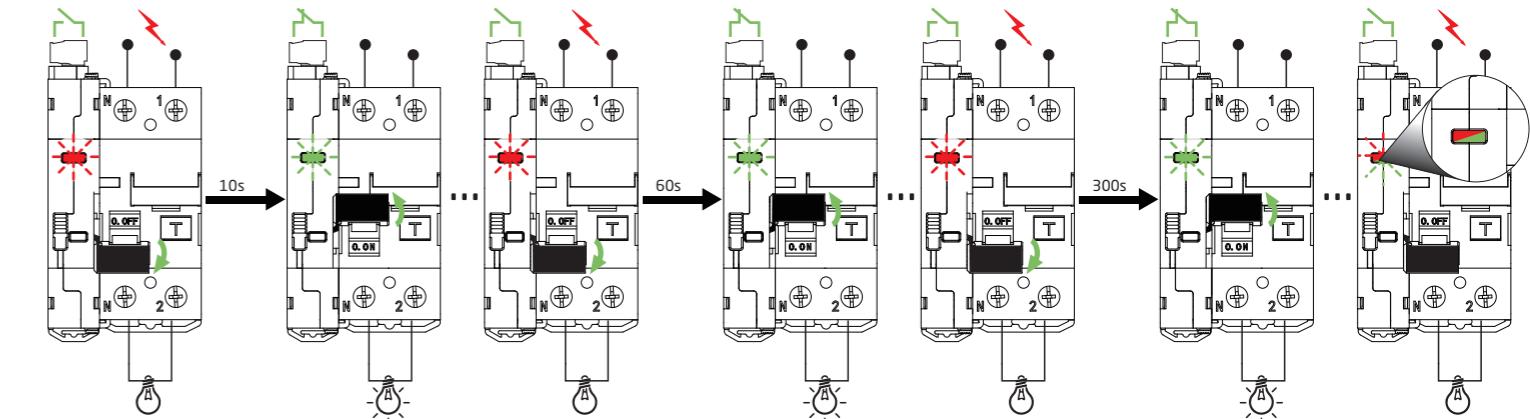


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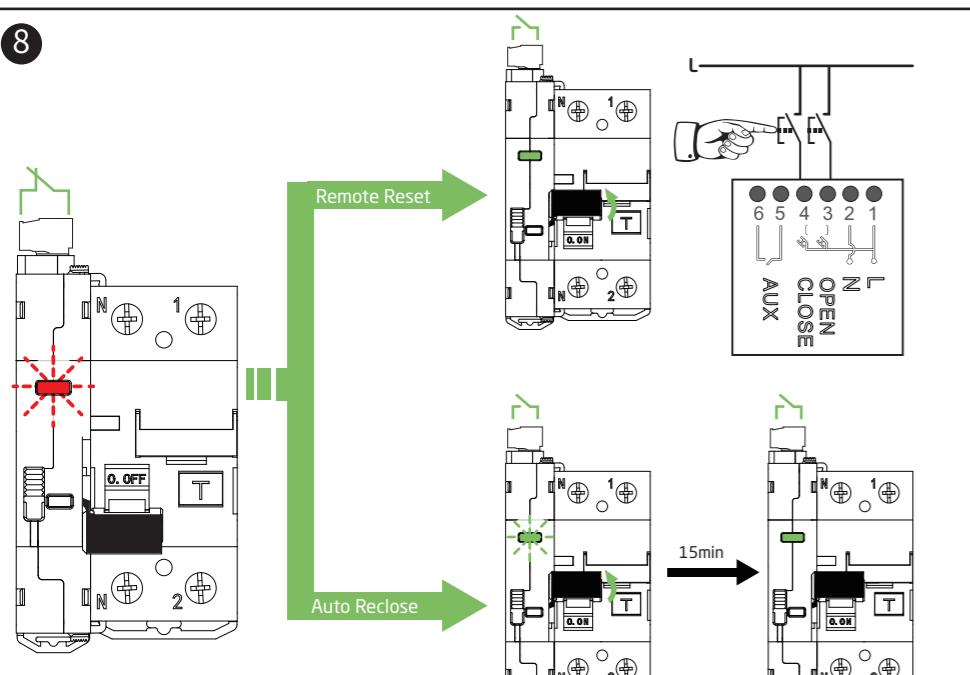
- Under "Auto" mode, and for continuous electrical fault,
- It will auto reclose after 10s time delay, and failed;
- It will auto reclose again after 60s time delay, and failed;
- It will auto reclose again after 300s time delay, and failed;
- It will switch to "Lock" status, and no more auto reclose (Meanwhile, the terminal of remote On/Off functions)

Working Status Indicator	
Closed	Green On
Open under Manual/Open under Auto	Red on
Reclosing after Fault Opening	Red Flashing
Stabilizing after Auto Reclosing	Green Flashing
Reclosing Failed after Three Automatic Reclosing	Red/Green Flashing Alternately
Adjust to Manual Mode	Red On

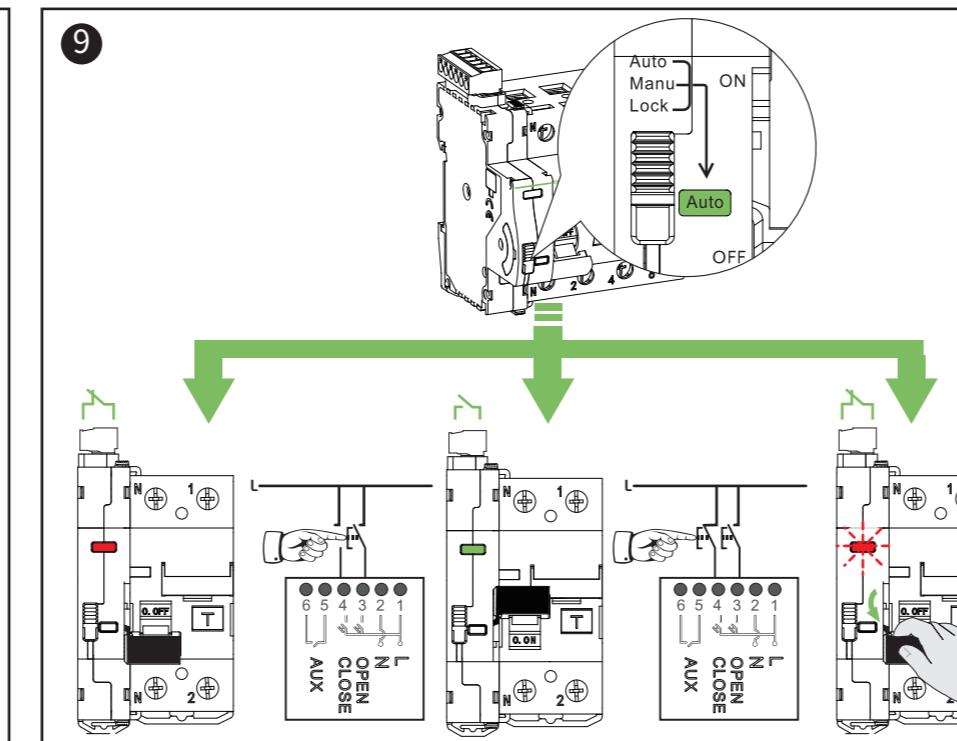


Note: MT53AI series has automatic reclosing function, MT53RI series does not have automatic reclosing function.

8

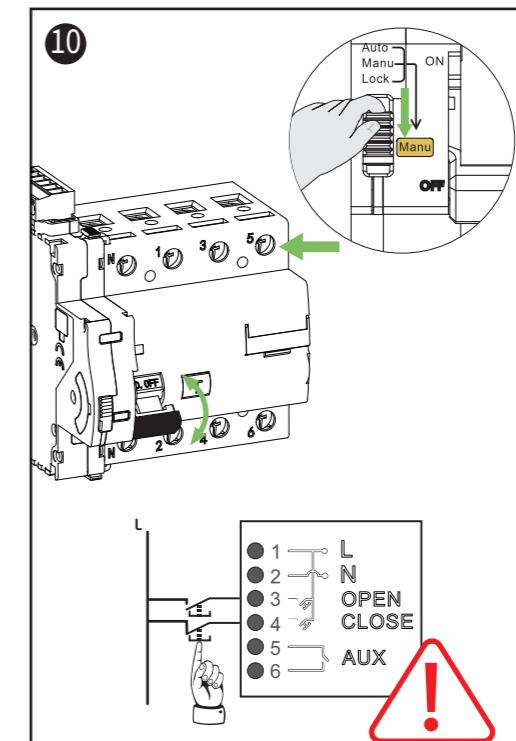


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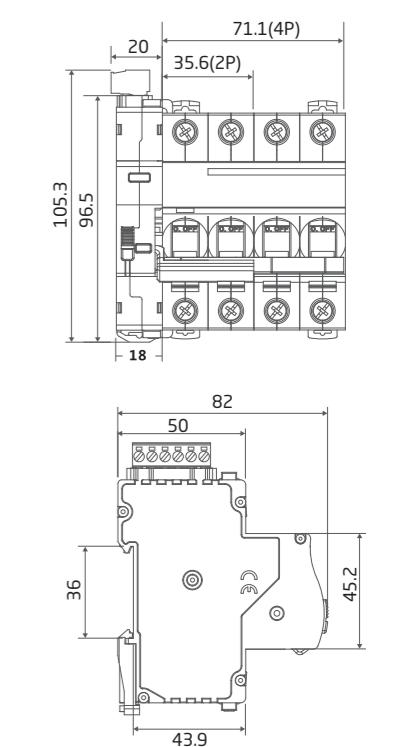


Note: It will enter reclose status when recloser is ON position and manually switched off.

10

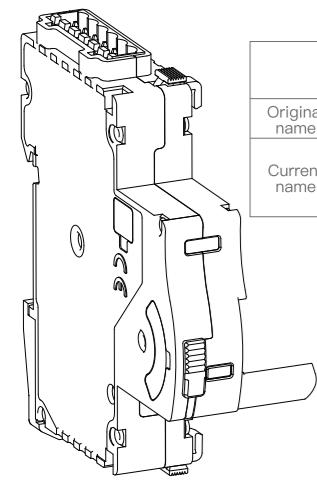


Note: The dry contact is disabled when "Manu" mode.



MT53 RS485

Remote Control/Auto-reclosing Series Product Manual

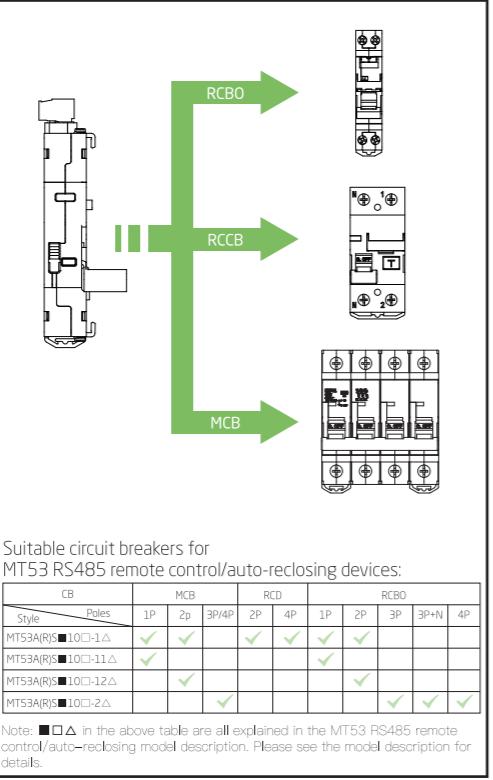


	Auto-reclosing Series	Remote Control Series
Original name	MT53AS	MT53RS
Current name	MT53RAs	MT53Rs
	MT53RSx	MT53Rsx

Shanghai Matis Electric Co.Ltd
Web:www.matsmart.com

Tel:+86 21 6050 3668,+86 18621879631

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



Suitable circuit breakers for
MT53 RS485 remote control/auto-reclosing devices:

CB	MCB	RCD	RCBO
Style	Poles	1P 2P 3P/4P	2P 4P 1P 2P 3P 3P+N 4P
MT53AS	10□-1△	✓ ✓	✓ ✓ ✓ ✓
MT53RAs	10□-11△	✓ ✓	✓
MT53AS	10□-12△	✓	✓
MT53AS	10□-2△	✓	✓ ✓ ✓ ✓

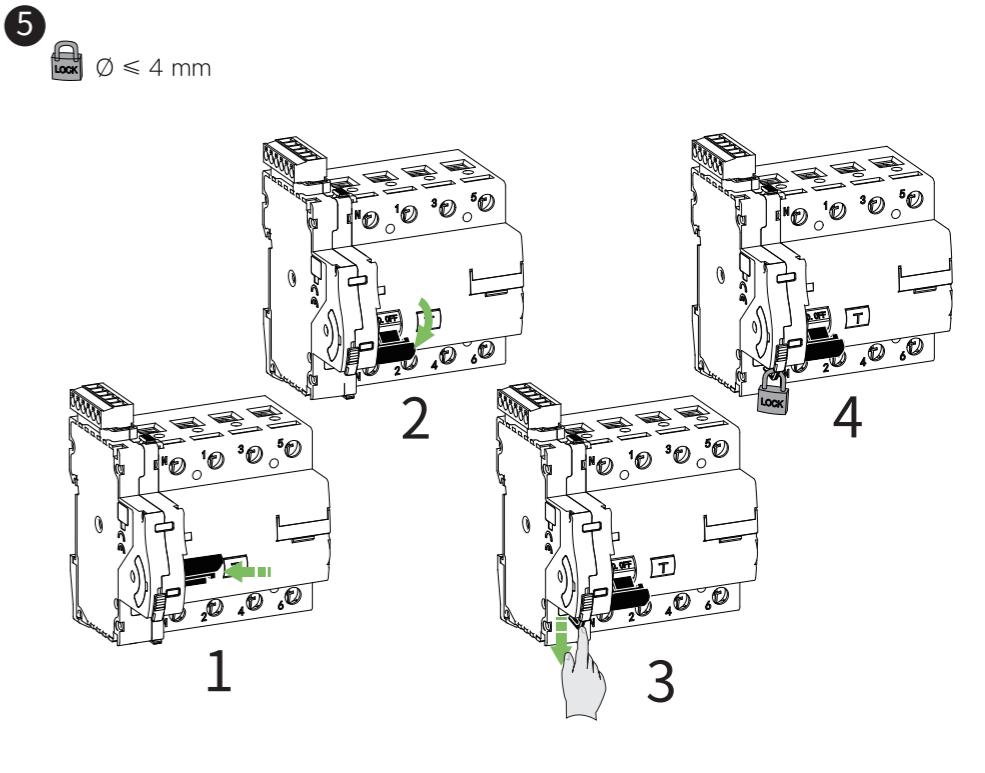
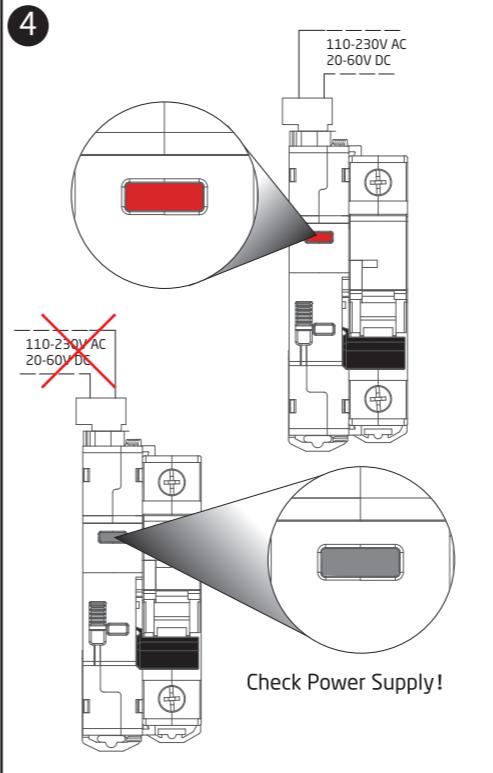
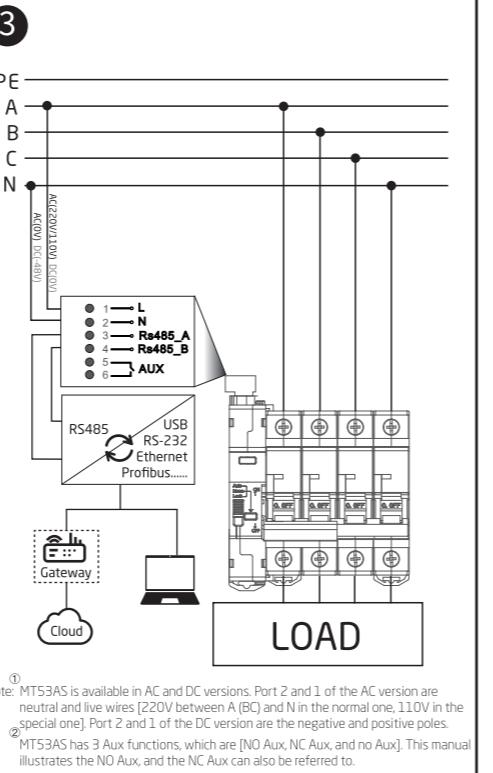
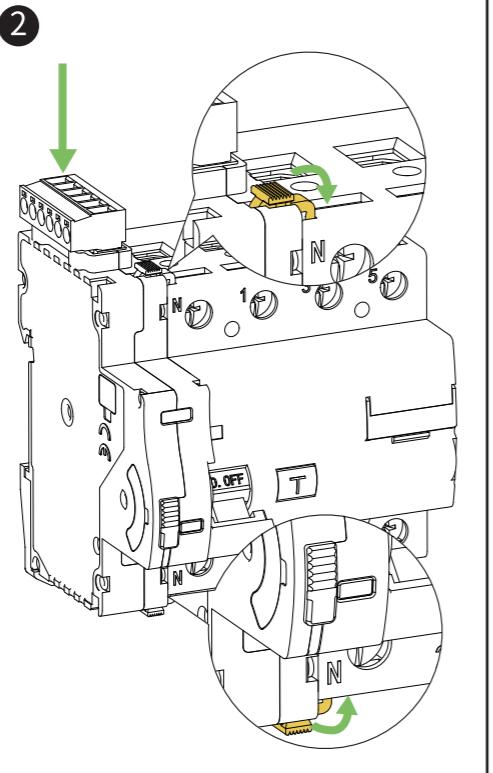
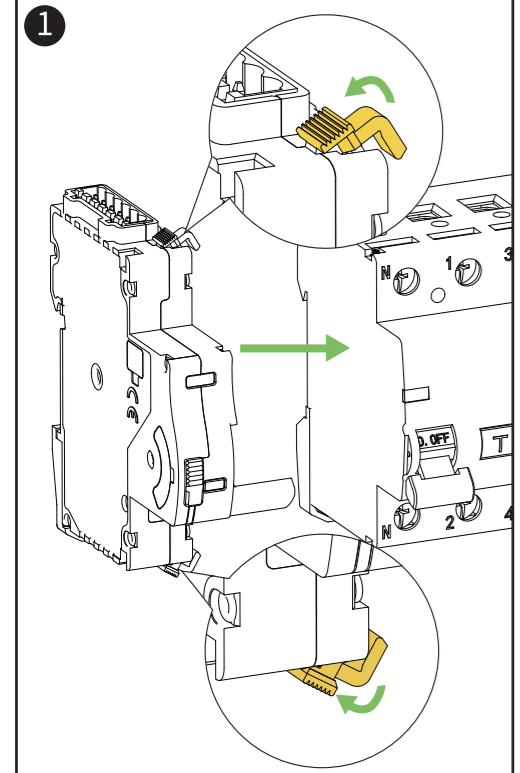
Note: □ △ in the above table are all explained in the MT53 RS485 remote control/auto-reclosing model description. Please see the model description for details.

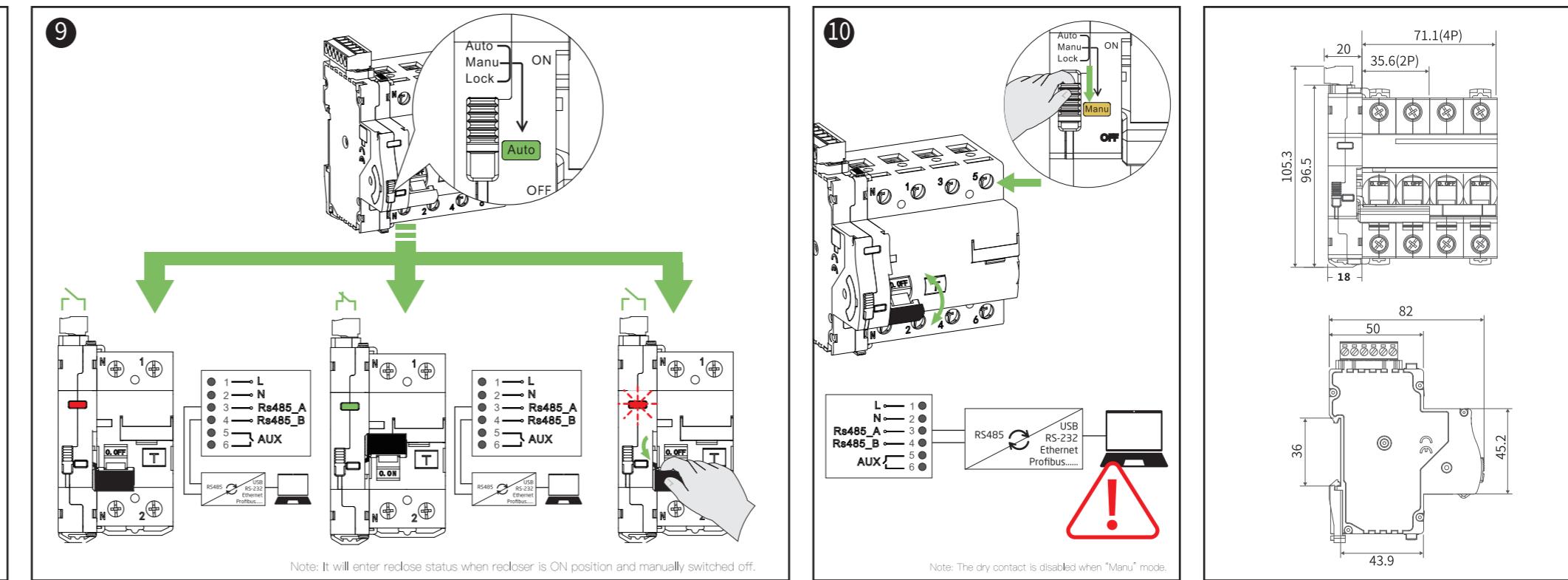
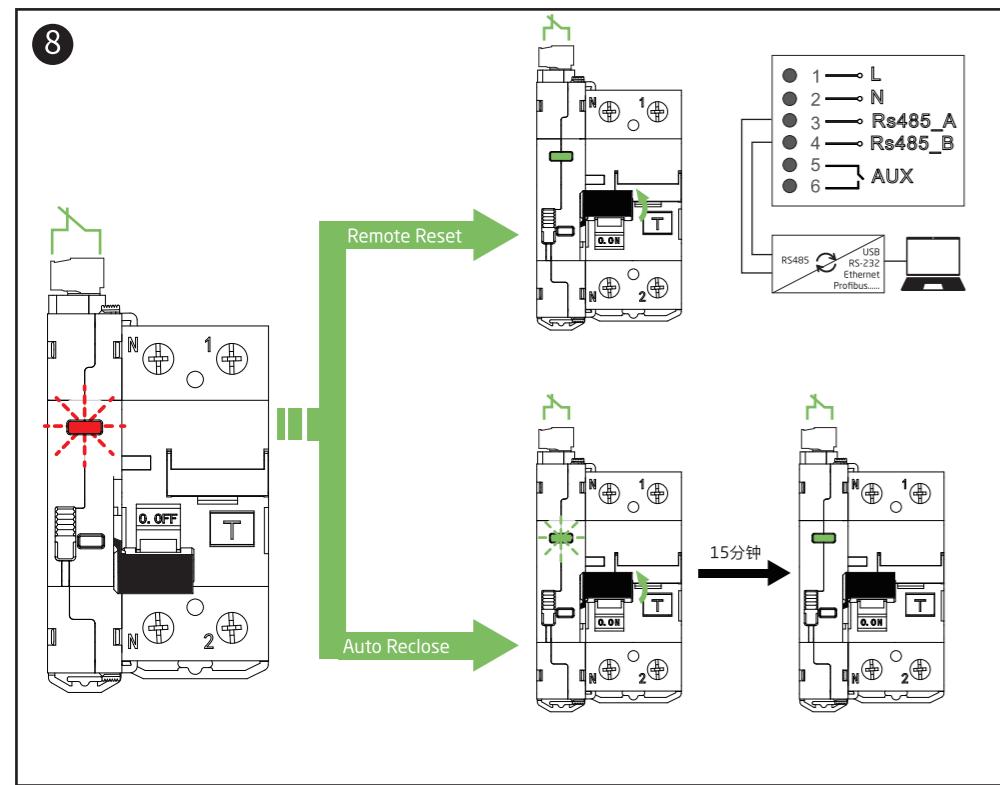
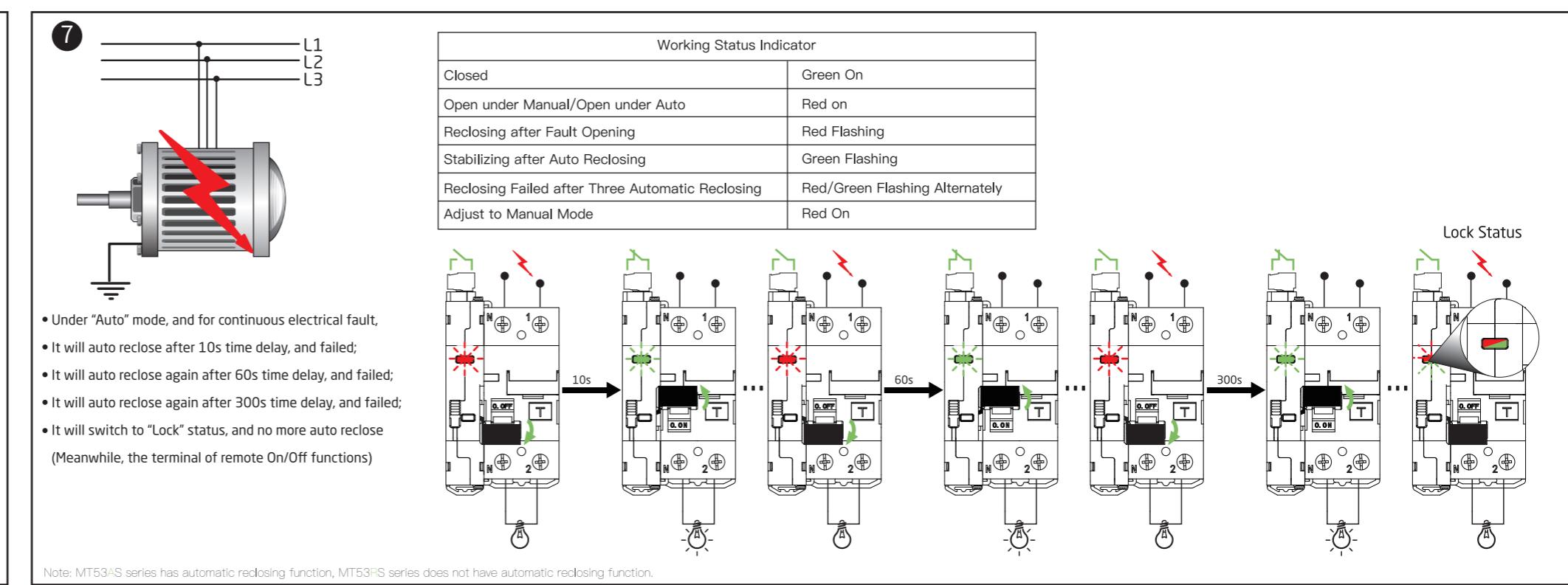
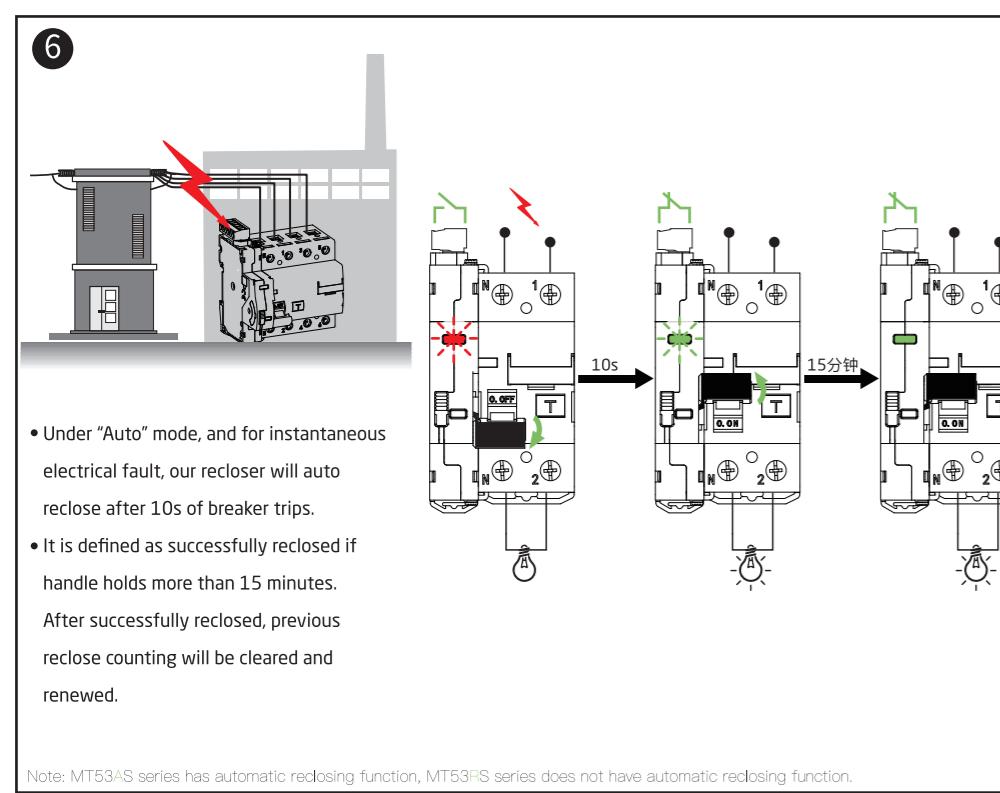
Product Model Description	
For example: MT53ASW10-1N	
M	Company
T	Control, automatic reclosing device
53	Design serial number
A	A:Auto Reclose R:Remote control
S	RS485 control
10	01: NC Aux 01: NO Aux None: No Aux
N	W:Matis 50 series J:Matis 60 series H:Matis 22 series K:Matis 90 series N:Schneider Acti 9 series MCB/RCBO I:Schneider Acti 9 Series RCD iID L:Nader NDB2 MCB/RCCB Z:Chint NB1 MCB C:Chint NL1 RCCB
1	11:18mm handle only to 1P circuit breaker 12:18mm handle only to 2P circuit breaker 1:18mm handle to 1P/2P circuit breaker 2:36mm handle to 3P/4P circuit breaker
N	N:AC220V

Electrical Characteristics		The Width of DIN Module	1	Contact Type	Electronic Relay
Standard	YDT2346-2011	Reclosing Time Interval	10s - 60s - 300s	Rated Voltage	5V-230V AC/DC
Power Distribution System	TN - S	Max Operation Frequency	30open/h	Rated Current	0.01A (min)-0.4 (max)
Rated Voltage(Ue)	AC~220V(110V) DC~48V	Electrical Life	10000	Frequency	50/60Hz
Min Rated Voltage(Min Ue)	85% Ue	Max. Auto Reclose Cycle	3	Use Category	AC12
Max Rated Voltage(Max Ue)	110% Ue	Reclosed Counting Reset Time	60s	Operation Mode	NO\NC as a signal of ON\OFF
Rated Insulation Voltage(Ui)	500V	Protection Grade	IP20 (Outside Panel) IP40 (Inside Panel)	Wiring Capability	≤2.5mm ²
Dielectric Strength	2500V AC for 1 minute	Terminal Part of Breaker	Soft Cable: ≤1x16mm ² Hard Cable: ≤1x25mm ²	Rated Tightening Torque	0.4Nm
Rated Withstand Voltage(Uimp)	4kV	Enviroment Characteristics		Min Rated Voltage(Min Ue)	
Over-voltage Category	III	Pollution Grade	2	Auto Reclose When Electric Fault Trip	●
Rated Frequency	50/60Hz	Work Temperature	-25°C +60°C	Earthleakage Test	●
Static Power	1VA	Storage Temperature	-40°C +70°C	Reclose Stops when Fault	●
Power of Remote Operation	20VA	Relative Humidity	55°C - RH 95%	Signal of Reclosing	●
Breaking Capacity of Earthleakage (IΔm)	The IΔm of Related Breaker	Communication Parameter		Fault Signal Indicator	●
Rated Residual Short Circuit Current (IΔc)	The IΔc of Related Breaker	Baudrate	Default as 9600, Configurable	Function of Auto / Manual	●
Handle Length	1 - 2	Check Digit	No Check digit	Internal Electrical Protection	PTC
MCB Type	1P - 2P - 3P - 4P	Data Digit	8		
RCCB Type	AC - A - A[IR] - A[S]	Stop Digit	1		
Rated Current(I _n)	The I _n of Related Breaker	Device Address	Factory Default Address: 1		
Rated Residual Current(I _{Δn})	The I _{Δn} of Related Breaker	Auxiliary Contact Characteristics			
AUX Input	0.4A(max)	Contact	yes		

Warranty

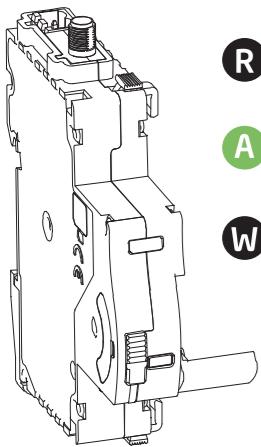
All users who purchase the product enjoy a 24-month warranty period from the date of purchase. During the warranty period, if there is a quality problem which affects normal use, you can enjoy free repair and replacement. In case of irreversible damage caused by improper use, drop, installation and wiring errors, it can be repaired or replaced at a fee within the warranty period. If you disassemble and modify it by yourself, you will not enjoy the warranty service.





MT53 Wifi

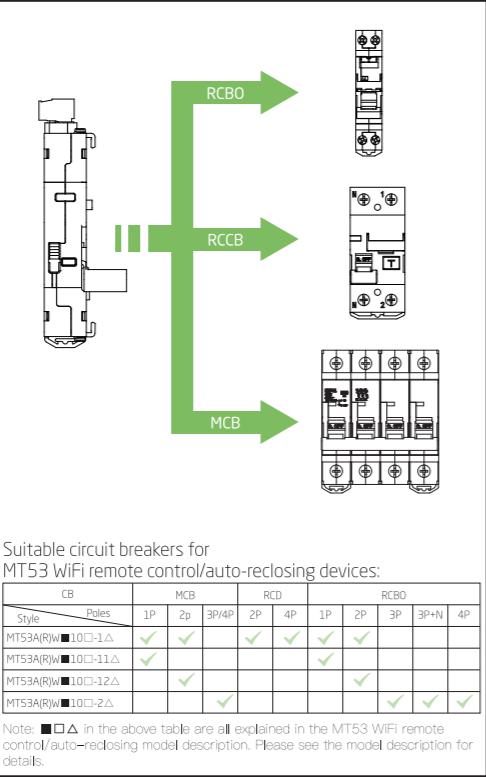
Remote Control/Auto-reclosing Series Product Manual



R Remote Control

A Auto Reclose

W Tuya App WiFi Control



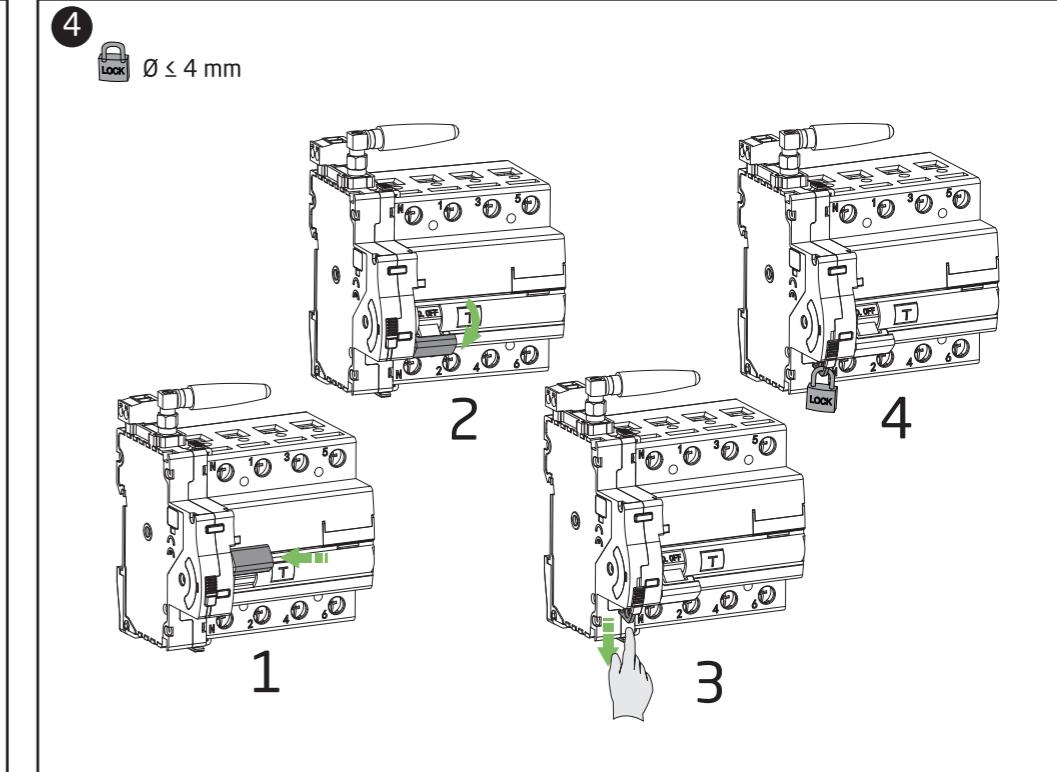
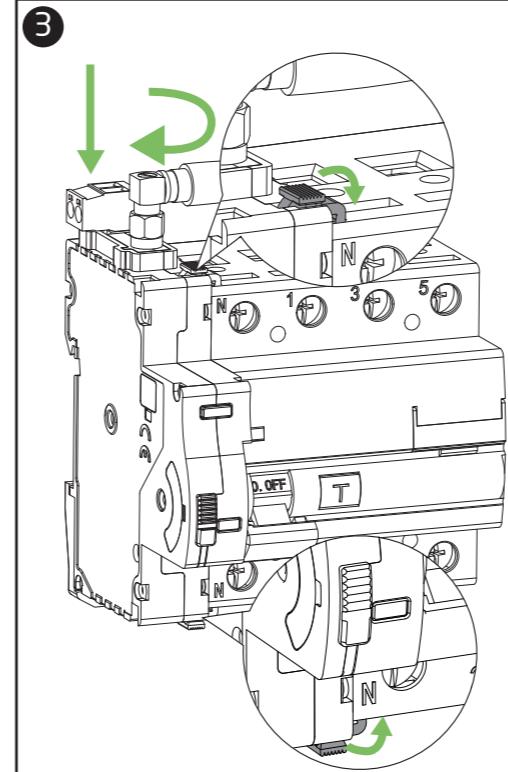
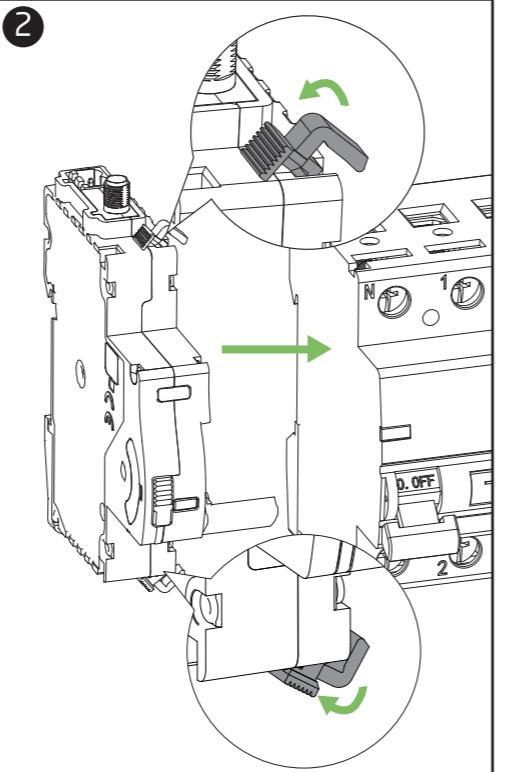
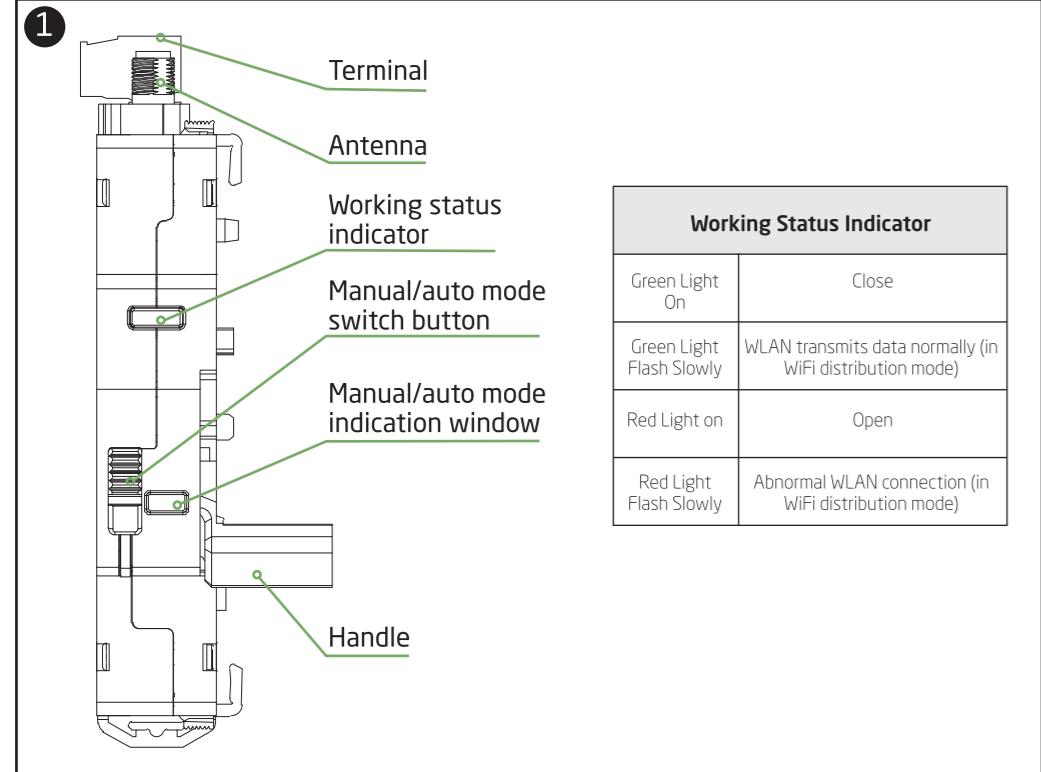
Product Model Description

For example: MT53AWN-1N

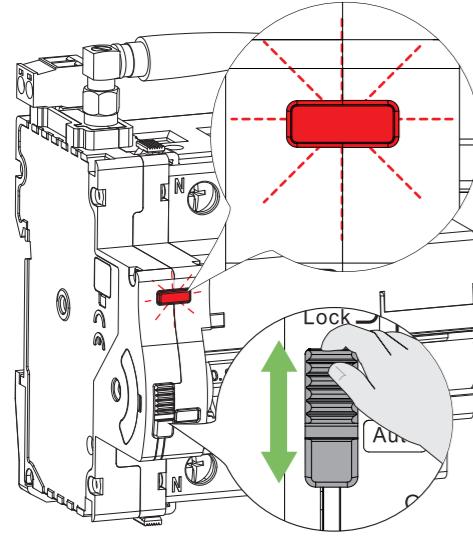
- M** → Company
- T** → Control, automatic reclosing device
- 53** → Design serial number
- A** → A:Auto Reclose R:Remote control
- W** → WiFi control
- N** → W:Matis 50 series
J:Matis 60 series
H:Matis 22 series
K:Matis 90 series
N:Schneider Acti 9 series MCB/RCBO
I:Schneider Acti 9 Series RCD iID
L:Nader NDB2 MCB/RCCB
Z:Chint NB1 MCB
C:Chint NL1 RCCB
- 1** → 11:18mm handle only to 1P circuit breaker
12:18mm handle only to 2P circuit breaker
1 :18mm handle to 1P/2P circuit breaker
2 :36mm handle to 3P/4P circuit breaker
- N** → N:AC220V

Electrical Characteristics

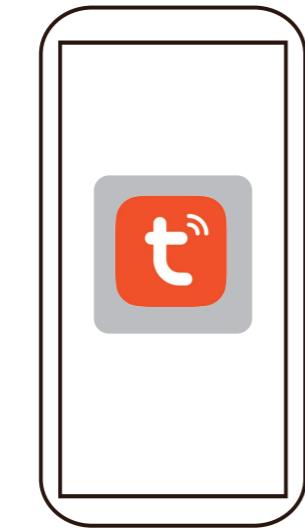
MCB Type	1P - 2P - 3P - 4P	Working Voltage	5V-230V AC/DC
RCCB Type	AC - A - A[IR] - A[S]	Working Current	0.6A (min) -1 (max)
Rated Current (In)	In of related circuit breakers	Working Frequency	50Hz
Standard	YDT 2346-2011 communication auto-reclosing residual current protector technology	Rated Residual Operated current (IΔn)	IΔn of related circuit breakers
Power Distribution System	TN - S		
Rated Voltage (Ue)	AC~220V		
Minimum Voltage (minimum Ue)	85% Ue		
Maximum Voltage (maximum Ue)	110% Ue		
Rated Insulation Voltage (Ui)	500V		
Inter-polar Dielectric Strength Test Voltage	2500V AC for 1 minute		
Rated Impulse Withstand Voltage (Ui _{imp})	4kV		
Overshoot Type	III		
Rated Frequency	50Hz		
Static Power	1VA		
Remote Control Time Power	20VA		
Leakage Making/Breaking Capability (IΔm)	IΔm of related circuit breakers		
Rated Condition Residual Short Circuit Current (IΔc)	IΔc of related circuit breakers		
Length of Handle	1 - 2		
Mechanical Characteristics			
Width in the DIN Module	1		
Maximum Operating Frequency	30open/h		
Maximum Mechanical Durability (Total Number of Operations)	10000		
Protection Grade	IP20 (outside the cabinet) - IP40 (inside the cabinet)		
Circuit Breaker Terminal Section	Soft wire: ≤ 1x16mm ² Hard wire: ≤ 1x25mm ²		
Communication Parameters			
Baud Rate	9600 by default (can be set)		
Check Bit	No check		
Data Bit	8		
Stop Bit	1		
Device Address	Factory default address: 1		
Warranty			
Anyone who purchases this model of device enjoys a 24-month warranty period from the date of purchase. During the warranty period, if the quality of the device itself affects the normal use, you can enjoy free repair and replacement, and the condition of paid service as follows: the improper use, drop, installation and wiring errors that cause irreversible damage. Besides, if you disassemble and modify the device yourself, you will not enjoy the warranty service.			



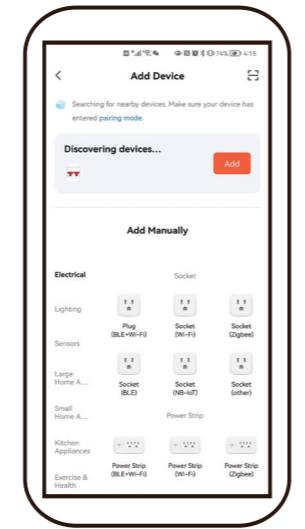
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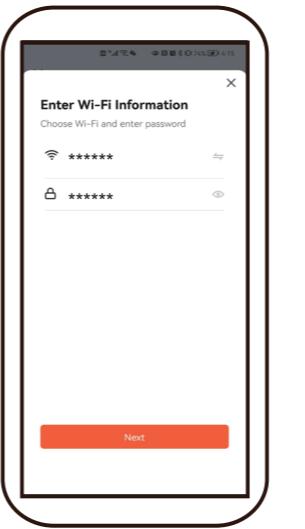
1. Switch the button from auto to manual then back to auto again, repeat the operation 2 times, the red light flashes and enter the distribution network mode.



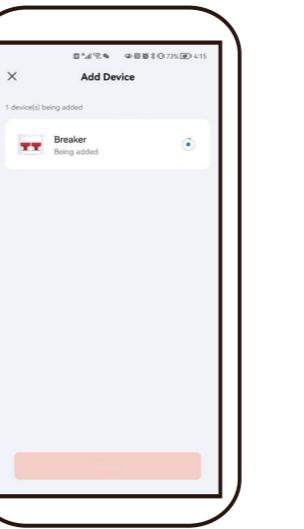
2. Open the Tuya WiFi APP.



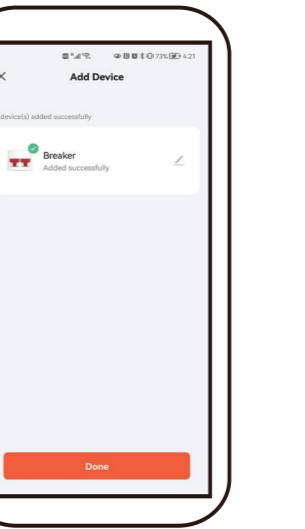
3. Click the Add button to add a device.



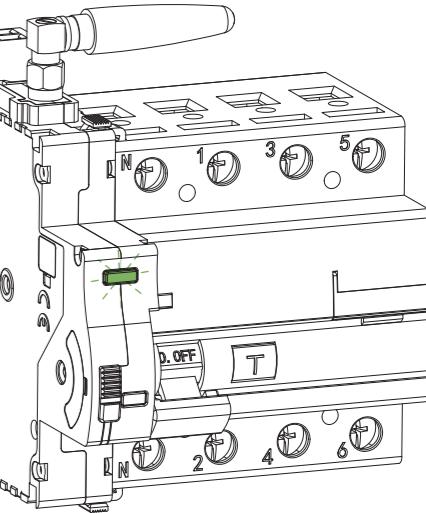
4. Enter WiFi information.



5. Wait for the device to be added.

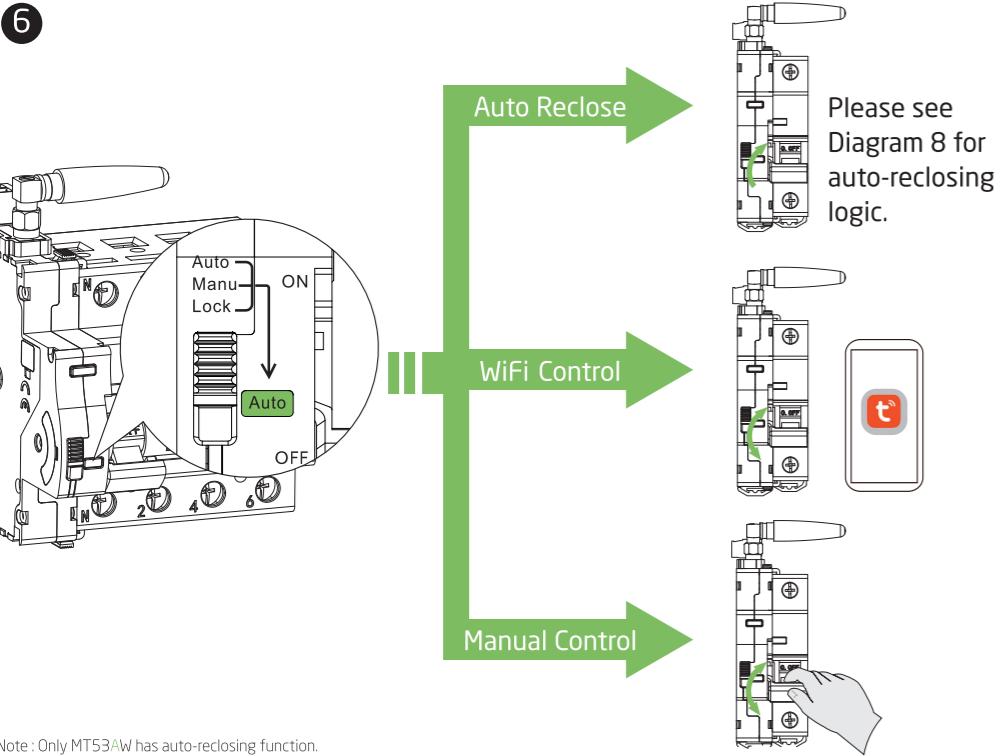


6. Add device successfully.



7. The green light flashes and the connection is successful. The device can be controlled by Tuya APP WiFi.

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Note: Only MT53A has auto-reclosing function.

