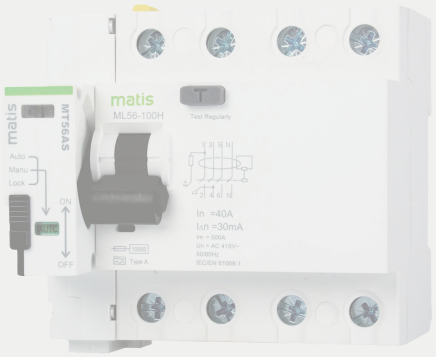

MT56 Series

Auto Reset RCCB & Auto Recloser

Smarter Electric, Safer Efficiency

→ www.matismart.com

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AIoT Electric

General Introduction

The MT56 series auto recloser is designed to automatically reclose the associated breakers after checking the fault. It is compatible with MCB/RCCB/RCBO both from Matis and EATON and the corresponding auxiliary OF/SD . The MT56 series ensures complete safety in residential, industrial, and commercial sectors, protecting both people and property. It seamlessly combines safety with service continuity.

Auto Reset RCCB
MT56AR–ML56

- **Auto Recloser:**Auto restores the RCCB after checking the fault.
- **Manual Priority:**Auto recloser disabled if RCCB manually off.
- **Auto–Recloser:**Modes:Only fixed reclosing mode is available.
- **Protection:**Residual current protection is active.

Auto Reset RCCB with RS485
MT56AS–ML56

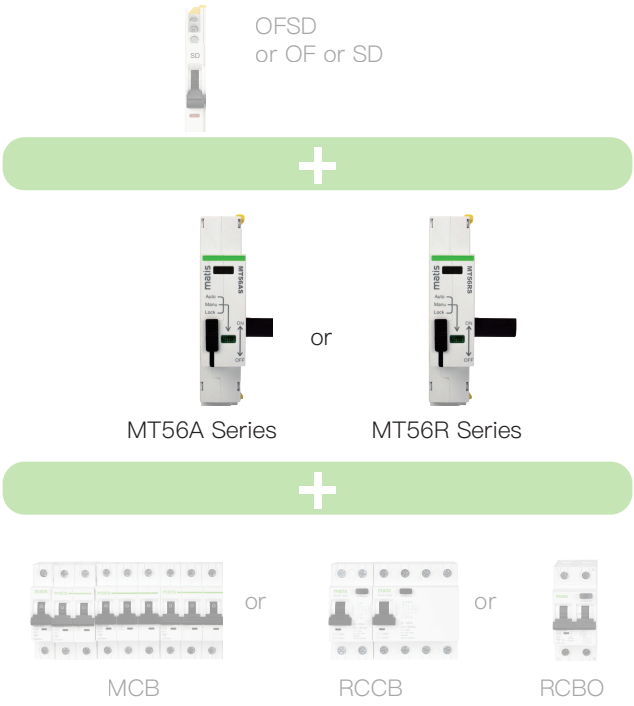
- **Auto Recloser::**Auto restores the RCCB after checking the fault.
- **Manual Priority:**Auto recloser and remote control disables if RCCB manually off.
- **Auto–Recloser Modes:** Four auto–recloser modes available as options.
- **Remote Control:**Remote control via RS485 with Modbus RTU.
- **Protection:**Residual current protection is active.

Auto Reclosing Auxiliary (ARA)
MT56AR & MT56AS

- **Auto Recloser:**Auto recloses the CB both from Matis and Eaton after checking the fault.
- **Manual Priority:**Auto recloser disabled if CB manually off.
- **Auto Recloser Mode:** Four modes for option.
- **Remote Control:** Remote control is available for MT56AS.

Remote control Auxiliary (RCA)
MT56RS

- **Remote control:**Control the CB both from Matis and Eaton remotely after checking the fault.
- **Manual Priority:**Remote control disabled if CB manually off.



Benefit & Technical Advantages

Benefits

Designed for Stability
Ensuring ultra-reliable and secure.

Unattended Environments
For remote facilities and server rooms where personnel are not present

Mission-Critical Continuity
For scenarios where power outages are strictly unacceptable.

Prevents unnecessary downtime
Prevents operational halts caused nuisance tripping.

Reduced Maintenance Costs
To save on the labour and time involved in going to the site to close the circuit breaker.

Technical Advantages

Quality Assurance
Compliant with IEC 63024 & EMC for long-term stability.

Intelligent Detection & Reset
Auto-recloses transient faults and locks out permanent ones.

Multiple Control Modes
Supports RS485, WiFi, and I/O for IoT integration.

Full Compatibility
Seamlessly fits various brands of MCBs, RCCBs, and RCBOs.

Customizable Logic
Supports programmable reset and interlocking rules.

Precise Protection
Real-time residual current monitoring and rapid tripping.

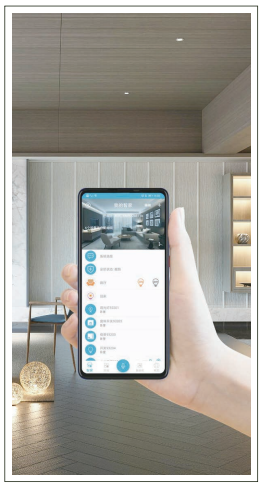
Application

Telecom

The Automation Series application in the telecommunication tower stations allows the major telecom operators to guarantee service continuity even in remote locations, thereby significantly reducing maintenance and on-site work costs for: repeaters/ antennas located in hard to reach locations, Internet distribution stations via optical fibre.

Application Scenarios:

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



Residentials

In residential buildings, the Automation Series ensures total safety through periodic RCCB self-checks, preventing malfunctions caused by long-term inactivity. In the event of a sudden power interruption, the device automatically restores power within 5 seconds post-fault verification. This guarantees service continuity for critical home appliances such as refrigerators, freezers, and alarm systems.

Application Scenarios:

- Appartment
- Flats or detached houses
- Holiday homes
- Isolated houses

Public Service

The Automation Series delivers essential service continuity for public infrastructure, including parks, roads, tunnels, and squares. By integrating IoT and software, it enables remote monitoring and control of lighting systems to enhance public safety. Furthermore, it ensures the reliable operation of traffic lights, information panels, advertising displays, and video surveillance systems.

Application Scenarios:

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

Application

Transportation

In railway and airport stations, the Automation Series ensures all electronic functions remain active in distant or hard–to–reach locations, preventing critical disruptions to traffic circulation. By providing regular checks of residual current protection, the device guarantees long–term effectiveness while significantly reducing maintenance and on–site labor costs.

Application Scenarios:

- Railway stations
- Highway
- Airports
- Bus terminals

New Energy

When integrated into EV charging units, the Automation Series guarantees seamless refueling by eliminating annoying power interruptions. It also maximizes efficiency for photovoltaic and wind power systems, securing economic returns through consistent energy injection into the grid. Additionally, it is an ideal solution for managing ”mini” electrical networks in smart home environments.

Application Scenarios:

- Electric car charging network
- Photovoltaic systems

Cold Chain and Warehousing

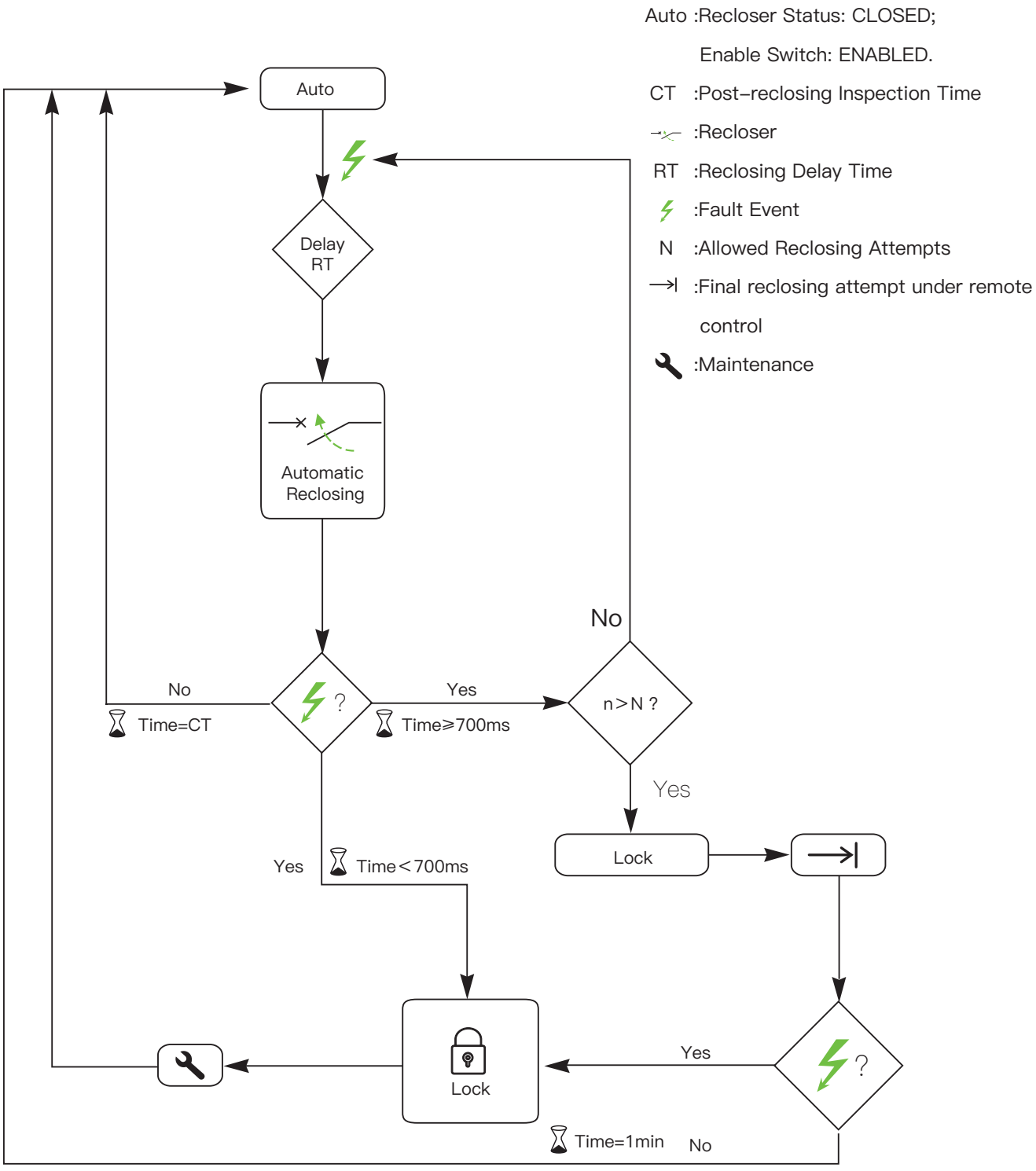
In Cold–chain Logistics, the Automation Series ensures 24/7 power for refrigeration and monitoring to prevent inventory loss. Its 5–second auto–reclosing minimizes temperature fluctuations during transient trips, protecting high–value goods like pharmaceuticals. By keeping tracking systems online, it maintains a transparent ”chain of custody,” effectively preventing losses from counterfeit or spoiled products.

Application Scenarios:

- Cold storage
- Refrigerated trucks
- Food processing
- Medical labs
- Vaccine centers

Auto Reclosing Logic Diagram

The MT56A series Auto Recloser feature a built-in fault counter that records the tripping frequency within the detection time (CT).



Auto Recloser Function

Auto Reclosing Modes

Fixed Reclosing Mode:

The MT56AR features a built–in fault counter that records the tripping frequency within the detection time (CT);There is only one auto reclosing mode below

Program No.	Strategy	Attempts	Delay Sequence
1	Short–3	3	10 s / 1 min / 3 min

Multiple Reclosing Modes:

The MT56AS module features a built–in fault counter that records the tripping frequency within the detection time (CT) and provides four preset reclosing strategies to accommodate different environments: The reclosing modes can be configured via the RS485 Modbus protocol. There are four reclosing modes for options.

Program No.	Strategy	Attempts	Delay Sequence
0	Short–1	1	10 s
1 (default)	Short–3	3	10 s / 1 min / 3 min
2	Long–Fixed	5	10 s / 1 min / 3 min × 3
3	Progressive	5	10 s / 1 min / 3 min / 4 min / 5 min

Time Delay(Reclosing interval)

First Reclosing Delay: In all preset modes, the first Auto Reset attempt following a trip is typically executed after 10 seconds.
Subsequent reclosing sequence: Depending on the selected strategy, the delay increases progressively, including 1 minute, 3 minutes, 4 minutes, and 5 minutes.

Counter Reset Time

The system operates within the set detection time (CT). If no new fault occurs within this time, the fault counter will automatically reset, and the system will return to its initial standby state.

Permanent Fault Detection Time

If a trip occurs again within 700 ms after the reclosing, the system will determine it to be a permanent fault and enter a program lockout state, at which point manual reset is required.

Product Overview of the whole MT56 sereis

Models	MT56AR	MT56AI	MT56AS	MT56AW	MT56SD
Core Functions	Basic Auto Recloser	Auto Recloser I/O control	Auto Recloser RS485 control	Auto Recloser RS485 control	Auto Recloser with insulation detection(30mA)
Associated CB (Matis)	RCCB (AC/A/ A+S types)	MM56 1–4P MCB ML56 2P/4P RCCB MR56 1–4P RCBO			MM56 1–4P MCB ML56 2P RCCB MR56 1–4P RCBO
Associated CB (Eaton)		FAZ/PL6 1–4P MCB PKN/PFL4 1+N RCBO mRB4/6 3+N RCBO			–
Reclosing Attempts	3 times		Four modes for option (see “Auto Reclosing modes” P5–6)	3times	48 times (24–hour inspection)
Reclosing Interval	10s/1min/3min		Four modes for option (see “Auto Reclosing modes” P5–6)	10s/1min /3min	10s → 1min → 3min → (30min×45 times)
Permanent Fault Indentification	Trips again within 700ms				
Reclosing by insulation	–	–	–	–	The RCD does not reclose untill the leakage current has disappeared. ✳
RS485 Control	–	–	●	–	–
I/O Control	–	●	–	–	–
Wi–Fi Control	–	–	–	●	–
Total count	–	–	●	●	–
Auxiliary contacts Compatible with OF/SD	●	●	●	●	●
Product Status	on sales	Under development	on sales	Under development	
Stardard	IEC 63024				

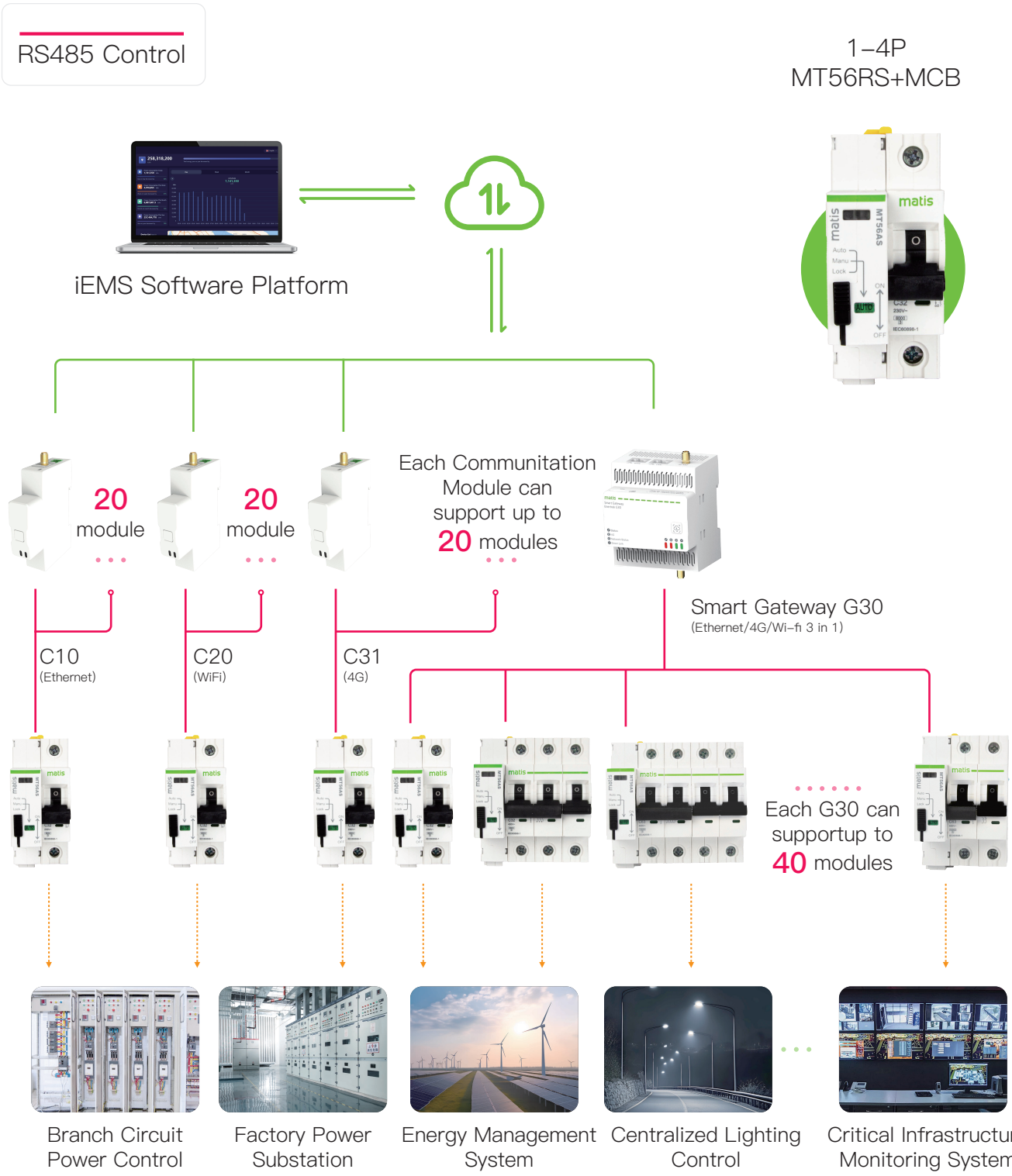
Note 【✳】:

Enforce a pre–check of insulation resistance before each Re–closing action.

- Defect resistance (Rd) / Differential response < 8 kΩ then do not self–reclosing
- Accepted minimum resistance (Rd0) / Differential response > 16 kΩ then do Self–reclosing

Remote Control Function

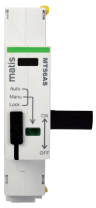
The MT56RS+MCB uses RS485 Control and connects to the iEMS intelligent energy management platform via a gateway, enabling remote branch circuit control and energy monitoring. It is suitable for plant substations and centralized lighting, providing a highly reliable, scalable intelligent power distribution solution for industrial, commercial, and municipal applications.



Instruction of Type code

MT 56 A S E –1 –R 2 16 AS 10

- Leakage current (IΔn)
  10mA；30mA；100mA；300mA
- Residual current protection type
  Type A; Type AC; Type A+S
- Rated current
  16A;25A;40A;63A;80A;100A
- Poles
  2P;4P
- Circuit breaker
  R:RCCB
- Handle position
  –1 (Compatible with 1P/2P MCB,RCBO,RCCB)
  –2 (Compatible with 3P/4P MCB,RCBO)
- Compatible circuit breaker codes
  M:Matis (Matis is omitted by default)
  E:EATON
- Secondard Function Code:
  R: Recloser
  S: RS485 control
  I: IO Control
  W: WiFi Control
- First Function Code
  R: Remote control
  A: Auto Recloser
- Serial Number
  56: Digital serial number
- Model
  MT: Company Name

Auxiliary OF/SD	Reclosing/control Auxiliary	Associated Device
		
Corresponding SD or OF	Auto Reclosing Auxiliary(ARA) MT56A Remote Control Auxiliary (RCA) MT56R	Matis CB: MCB MM56, RCCB:ML56, RCBO:MR56 Eaton: MCB, RCBO

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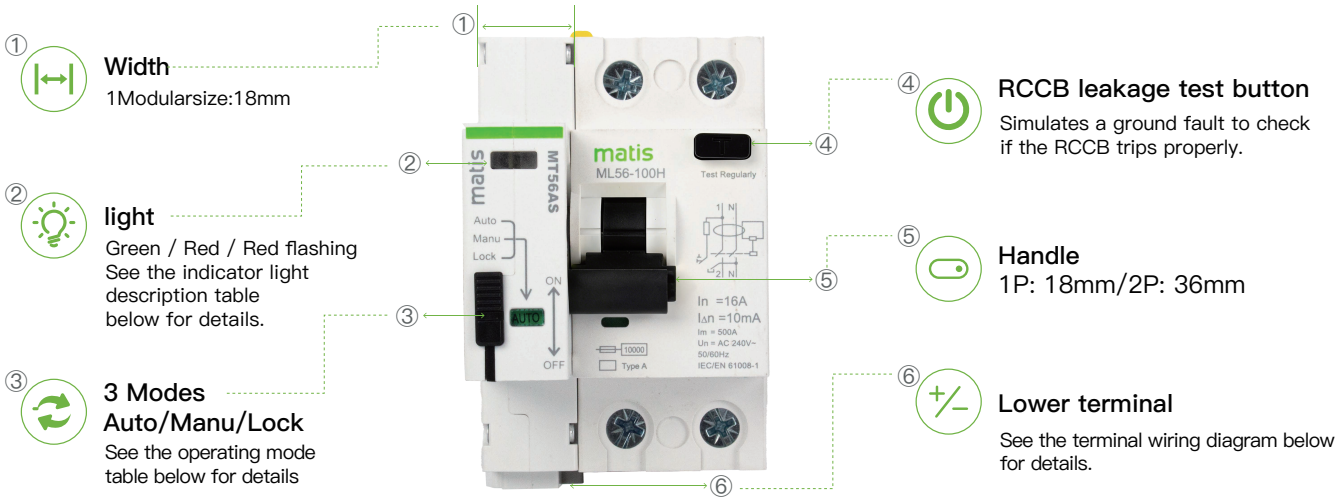
Auto Reset RCCB

MT56A–ML56 series

Interface Description



Indicator Light Descriptions

The automatic reset RCD panel integrates multi–color LED indicators to provide real–time feedback on equipment operating status

Status		Indicates
Green ligh	Solid on	AUTO mode, normal operation
	Flashing	MANU mode, waiting for manual or communication control
Red lantern	Flashing	Reclosing timing sequence in progress
	Solid on	A permanent fault has been detected or the maximum number of reclosing attempts has been reached; the system is locked out
Yellow light	Solid on	The device is in a mechanical lockout state

Operating Mode

The automatic reset RCD features a physical switch to ensure strict management of operating permissions:

Mode		Function
AUTO	Auto	Automatic fault reclosing, supports remote control
MANU	MANU	No Auto Reset, supports remote control
LOCK	Mechanical Lock	Panel toggle locking (supports Φ4mm padlock), with electronic and mechanical safety interlocking, for local maintenance.

Technical Specifications

		MT56AR–ML56	MT56AS–ML56
Electrical Characteristics	Leakage Type	AC Type / A Type / A+S Type	
	Rated voltage (Un)	2P: 230 V~ / 4P: 400 V~	
	Rated Current (In)	16, 25, 40, 63, 80, 100 A	
	Rated frequency	50 / 60 Hz (±5%)	
	Rated residual operating current (IΔn)	10, 30, 100, 300 mA	
	Rated Making and Breaking Capacity	500 A or 10×In	
	Rated residual making and breaking capacity (IΔm)	500A (⩽40A) , 630A (63A) , 800A (80A) , 1000A (100A)	
	Rated impulse withstand voltage (Uimp)	4 kV	
	Auxiliary power consumption	< 20 VA (during operation) / < 1.5 VA (standby)	
Auto Reclosing Function	Reclosing program	Program 1(Short–3)	Four programs for options (0/1/2/3) See section ”Auto Reclosing Modes”P5–6
	Reclosing Attempts	3 times	Depend on the selected program (1–5 times)
	Reclosing Interval	1st: 10s 2nd: 60s 3rd: 180s	Depend on the selected program (1–5 times)
	Reset Time	15 minutes (time for the counter to reset after a successful reclosing)	
	Manual/Current Fault Identification	Yes	
	Permanent Fault Indentification	⩽ 700 ms (If the circuit breaker trips immediately after closing, it is deemed a permanent fault, and reclosing is locked out)	
Remote Control	Communication	–	RS485
	Protocol	–	Modbus RTU
Mechanical Characteristics	Mechanical Life	6,000 cycles	
	Electrical life	4,000 cycles	
	Number of poles	2P or 4P	
	Module	2P: 54 mm / 4P: 90 mm	
	Weight	2P: 285 g / 4P: 436 g	
	Mounting Method	DIN rail	
Environmental Parameters	Operating Temperature	–25 ° C ... +55 ° C	
	Maximum Altitude	2,000 m	
	Protection rating	IP20	
Stardard & Certificate	Compliance with Standards	IEC/EN 61008–1 (RCCB), IEC/EN 63024 (Recloser), EN 50557 (Recloser)	
	Standard	IEC/EN 61008, IEC63024	
	Certificate	CE, VDE (RCCB)	

Order Code

Auto Reset RCCB MT56AR–ML56

Poles (P)	IΔn (Leakage Current)	In (Rated Current)	Type AC Model	Type A Model	Type A+S
2P 	10mA	16A	MT56AR–R216AC10	MT56AR–R216A10	MT56AR–R216AS10
		25A	MT56AR–R225AC10	MT56AR–R225A10	MT56AR–R225AS10
	30mA	16A	MT56AR–R216AC30	MT56AR–R216A30	MT56AR–R216AS30
		25A	MT56AR–R225AC30	MT56AR–R225A30	MT56AR–R225AS30
		40A	MT56AR–R240AC30	MT56AR–R240A30	MT56AR–R240AS30
		63A	MT56AR–R263AC30	MT56AR–R263A30	MT56AR–R263AS30
		80A	MT56AR–R280AC30	MT56AR–R280A30	MT56AR–R280AS30
		100A	MT56AR–R2100AC30	MT56AR–R2100A30	MT56AR–R2100AS30
	100mA	16A	MT56AR–R216AC100	MT56AR–R216A100	MT56AR–R216AS100
		25A	MT56AR–R225AC100	MT56AR–R225A100	MT56AR–R225AS100
		40A	MT56AR–R240AC100	MT56AR–R240A100	MT56AR–R240AS100
		63A	MT56AR–R263AC100	MT56AR–R263A100	MT56AR–R263AS100
		80A	MT56AR–R280AC100	MT56AR–R280A100	MT56AR–R280AS100
		100A	MT56AR–R2100AC100	MT56AR–R2100A100	MT56AR–R2100AS100
	300mA	16A	MT56AR–R216AC300	MT56AR–R216A300	MT56AR–R216AS300
		25A	MT56AR–R225AC300	MT56AR–R225A300	MT56AR–R225AS300
		40A	MT56AR–R240AC300	MT56AR–R240A300	MT56AR–R240AS300
		63A	MT56AR–R263AC300	MT56AR–R263A300	MT56AR–R263AS300
		80A	MT56AR–R280AC300	MT56AR–R280A300	MT56AR–R280AS300
		100A	MT56AR–R2100AC300	MT56AR–R2100A300	MT56AR–R2100AS300
4P 	10mA	16A	MT56AR–R416AC10	MT56AR–R416A10	MT56AR–R416AS10
		25A	MT56AR–R425AC10	MT56AR–R425A10	MT56AR–R425AS10
	30mA	16A	MT56AR–R416AC30	MT56AR–R416A30	MT56AR–R416AS30
		25A	MT56AR–R425AC30	MT56AR–R425A30	MT56AR–R425AS30
		40A	MT56AR–R440AC30	MT56AR–R440A30	MT56AR–R440AS30
		63A	MT56AR–R463AC30	MT56AR–R463A30	MT56AR–R463AS30
		80A	MT56AR–R480AC30	MT56AR–R480A30	MT56AR–R480AS30
		100A	MT56AR–R4100AC30	MT56AR–R4100A30	MT56AR–R4100AS30
	100mA	16A	MT56AR–R416AC100	MT56AR–R416A100	MT56AR–R416AS100

Selection Table

Poles (P)	IΔn (Leakage Current)	In (Rated Current)	Type AC Model	Type A Model	Type A+S
4P 	100mA	25A	MT56AR–R425AC100	MT56AR–R425A100	MT56AR–R425AS100
		40A	MT56AR–R440AC100	MT56AR–R440A100	MT56AR–R440AS100
		63A	MT56AR–R463AC100	MT56AR–R463A100	MT56AR–R463AS100
		80A	MT56AR–R480AC100	MT56AR–R480A100	MT56AR–R480AS100
		100A	MT56AR–R4100AC100	MT56AR–R4100A100	MT56AR–R4100AS100
	300mA	16A	MT56AR–R416AC300	MT56AR–R416A300	MT56AR–R416AS300
		25A	MT56AR–R425AC300	MT56AR–R425A300	MT56AR–R425AS300
		40A	MT56AR–R440AC300	MT56AR–R440A300	MT56AR–R440AS300
		63A	MT56AR–R463AC300	MT56AR–R463A300	MT56AR–R463AS300
		80A	MT56AR–R480AC300	MT56AR–R480A300	MT56AR–R480AS300
		100A	MT56AR–R4100AC300	MT56AR–R4100A300	MT56AR–R4100AS300

Auto Reset RCCB with RS485 MT56AS–ML56

Poles (P)	IΔn (Leakage Current)	In (Rated Current)	Type AC Model	Type A Model	Type A+S
2P 	10mA	16A	MT56AS–R216AC10	MT56AS–R216A10	MT56AS–R216AS10
		25A	MT56AS–R225AC10	MT56AS–R225A10	MT56AS–R225AS10
	30mA	16A	MT56AS–R216AC30	MT56AS–R216A30	MT56AS–R216AS30
		25A	MT56AS–R225AC30	MT56AS–R225A30	MT56AS–R225AS30
		40A	MT56AS–R240AC30	MT56AS–R240A30	MT56AS–R240AS30
		63A	MT56AS–R263AC30	MT56AS–R263A30	MT56AS–R263AS30
		80A	MT56AS–R280AC30	MT56AS–R280A30	MT56AS–R280AS30
		100A	MT56AS–R2100AC30	MT56AS–R2100A30	MT56AS–R2100AS30
	100mA	16A	MT56AS–R216AC100	MT56AS–R216A100	MT56AS–R216AS100
		25A	MT56AS–R225AC100	MT56AS–R225A100	MT56AS–R225AS100
		40A	MT56AS–R240AC100	MT56AS–R240A100	MT56AS–R240AS100
		63A	MT56AS–R263AC100	MT56AS–R263A100	MT56AS–R263AS100
		80A	MT56AS–R280AC100	MT56AS–R280A100	MT56AS–R280AS100
		100A	MT56AS–R2100AC100	MT56AS–R2100A100	MT56AS–R2100AS100
	300mA	16A	MT56AS–R216AC300	MT56AS–R216A300	MT56AS–R216AS300
		25A	MT56AS–R225AC300	MT56AS–R225A300	MT56AS–R225AS300
		40A	MT56AS–R240AC300	MT56AS–R240A300	MT56AS–R240AS300
		63A	MT56AS–R263AC300	MT56AS–R263A300	MT56AS–R263AS300
		80A	MT56AS–R280AC300	MT56AS–R280A300	MT56AS–R280AS300
		100A	MT56AS–R2100AC300	MT56AS–R2100A300	MT56AS–R2100AS300
4P 	10mA	16A	MT56AS–R416AC10	MT56AS–R416A10	MT56AS–R416AS10
		25A	MT56AS–R425AC10	MT56AS–R425A10	MT56AS–R425AS10
	30mA	16A	MT56AS–R416AC30	MT56AS–R416A30	MT56AS–R416AS30
		25A	MT56AS–R425AC30	MT56AS–R425A30	MT56AS–R425AS30

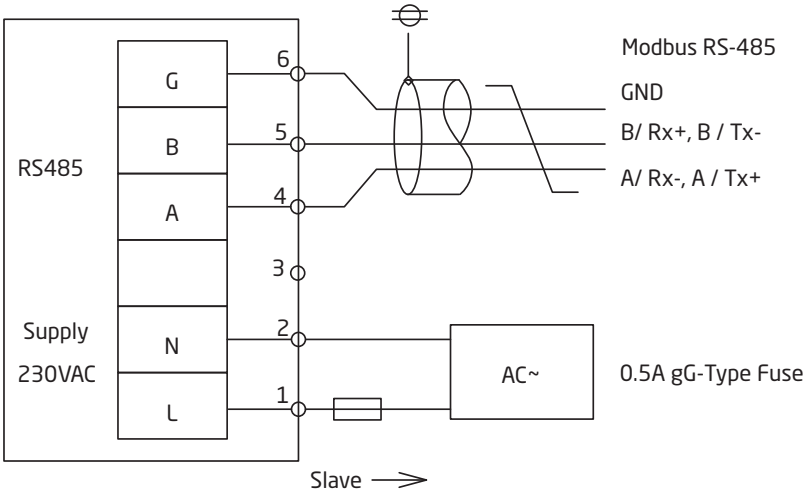
Selection Table

Poles (P)	IΔn (Leakage Current)	In (Rated Current)	Type AC Model	Type A Model	Type A+S
4P 	30mA	40A	MT56AS–R440AC30	MT56AS–R440A30	MT56AS–R440AS30
		63A	MT56AS–R463AC30	MT56AS–R463A30	MT56AS–R463AS30
		80A	MT56AS–R480AC30	MT56AS–R480A30	MT56AS–R480AS30
		100A	MT56AS–R4100AC30	MT56AS–R4100A30	MT56AS–R4100AS30
	100mA	16A	MT56AS–R416AC100	MT56AS–R416A100	MT56AS–R416AS100
		25A	MT56AS–R425AC100	MT56AS–R425A100	MT56AS–R425AS100
		40A	MT56AS–R440AC100	MT56AS–R440A100	MT56AS–R440AS100
		63A	MT56AS–R463AC100	MT56AS–R463A100	MT56AS–R463AS100
		80A	MT56AS–R480AC100	MT56AS–R480A100	MT56AS–R480AS100
		100A	MT56AS–R4100AC100	MT56AS–R4100A100	MT56AS–R4100AS100
	300mA	16A	MT56AS–R416AC300	MT56AS–R416A300	MT56AS–R416AS300
		25A	MT56AS–R425AC300	MT56AS–R425A300	MT56AS–R425AS300
		40A	MT56AS–R440AC300	MT56AS–R440A300	MT56AS–R440AS300
		63A	MT56AS–R463AC300	MT56AS–R463A300	MT56AS–R463AS300
		80A	MT56AS–R480AC300	MT56AS–R480A300	MT56AS–R480AS300
		100A	MT56AS–R4100AC300	MT56AS–R4100A300	MT56AS–R4100AS300

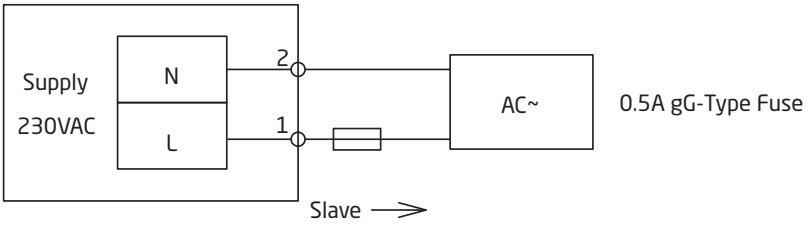
Wiring Diagram & Dimensions

Wiring Diagram

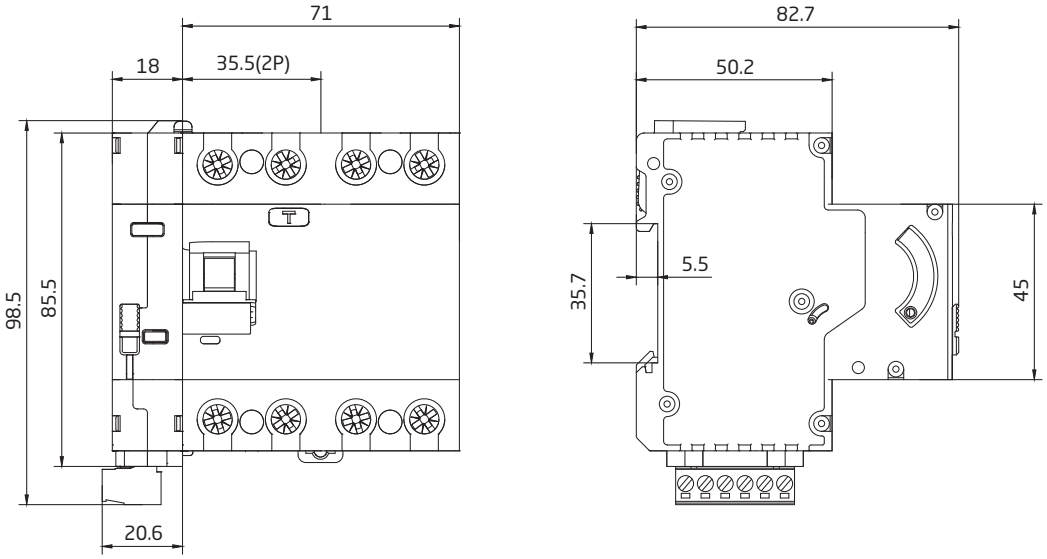
MT56AS Terminal Diagram



MT56AR Terminal Diagram



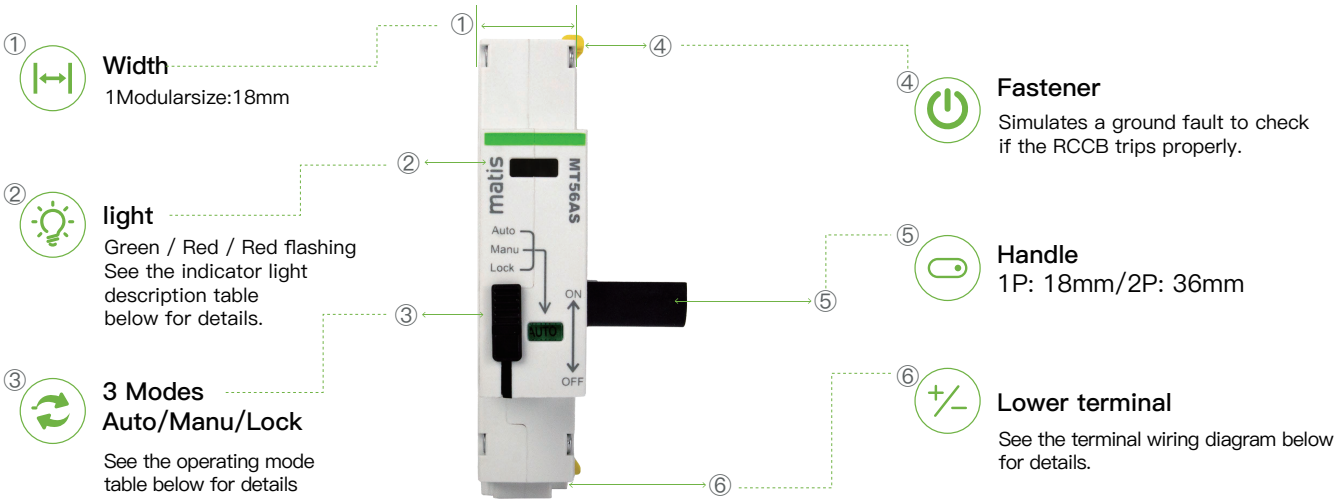
Dimensions



Auto Reclosing Auxiliary (ARA)

MT56AR & MT56AS

Interface Description



Indicator Light Descriptions

The MT56A series panels feature integrated multi–color LED indicators that provide real–time feedback on the device's operating status:

Status		Indicates
Green ligh	Solid on	AUTO mode, normal operation
	Flashing	MANU mode, waiting for manual or communication control
Red lantern	Flashing	Reclosing timing sequence in progress
	Solid on	A permanent fault has been detected or the maximum number of reclosing attempts has been reached; the system is locked out
Yellow light	Solid on	The device is in a mechanical lockout state

Operating Mode

The MT56A series features a physical toggle to ensure strict management of operation authorization:

Mode		Function
AUTO	Auto	Auto Reset upon fault, supports remote control
MANU	MANU	No Auto Reset, supports remote control
LOCK	Mechanical Lock	Panel toggle locking (supports Φ4mm padlock), with electronic and mechanical safety interlocking, for local maintenance.

Technical Specifications

		MT56ARM / MT56ARE	MT56ASM / MT56ASE
Associated CB	CB brands	Matis	Eaton
	CB Models	Matis MCB MM56 1–4P Matis RCCB ML56 2P/4P type A/ AC Matis RCBO MR56 1P+N	Eaton FAZ xEffect MCB 1P–4P, Eaton PL6 xPole MCB 1P–4P, Eaton xPole Combined RCD/ MCB Device PKNM/PKN4/PFL4, 1+N–pole, Eaton xPole Combined RCD/MCB Device mRB4/6, 3+N–pole,
Electrical Characteristics	Rated Voltage (Un)	230 V AC	
	Operating Voltage Range	110V ~ 230V AC	
	Rated Frequency	50 / 60 Hz ±5%	
	Impulse withstand voltage (Uimp)	4 kV	
	Power consumption	Operating: < 20 VA / Standby: < 1.5 VA	
Auto Reclosing Function	Reclosing program	Program 1(Short–3)	Four programs for options (0/1/2/3) See section ”Auto Reclosing Modes”P5–6
	Reclosing Attempts	3 times	Depend on the selected program (1–5 times)
	Reclosing Interval	1st: 10s 2nd: 60s 3rd: 180s	Depend on the selected program (1–5 times)
	Reset Time	15 minutes (time for the counter to reset after a successful reclosing)	
	Manual/Current Fault Identification	Yes	
	Permanent Fault Indentification	⩽ 700 ms (If the circuit breaker trips immediately after closing, it is deemed a permanent fault, and reclosing is locked out)	
Remote Control	Communication	–	RS485
	Protocol	–	Modbus RTU
Mechanical and Environmental	Mechanical Life	10,000 cycles (motor–driven mechanism)	
	Mounting Method	Standard 35mm DIN rail mounting	
	Operating Temperature	–25 ° C to +55 ° C	
	Maximum operating altitude	2,000 m	
	Protection rating	Terminals IP20 / Enclosure IP40	
Certification standards	Compliance with standards	EN 50557, EN/IEC 63024	
	Certificates	CE	

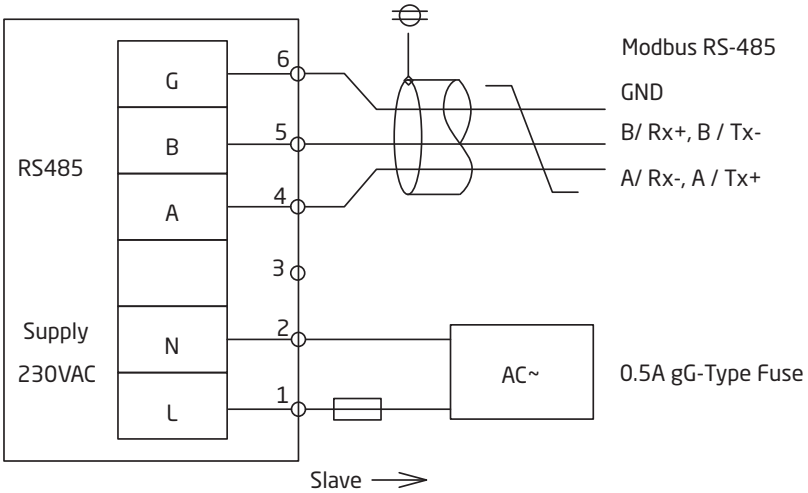
Order Code

Model Code	Associated CB	Voltage	Handle	Function
MT56ARM–1N	Matis MCB MM56 Matis RCBO MR56 Matis RCCB ML56	AC 230V	Short handle (1Mod)	Auto Recloser
MT56ARM–2N		AC 230V	Long handle (2Mod)	
MT56ASM–1N		AC 230V	Short handle (1Mod)	Auto Recloser with RS485
MT56ASM–2N		AC 230V	Long handle (2Mod)	
MT56ARE–1N	Eaton FAZ xEffect MCB 1P–4P, Eaton PL6 xPole MCB 1P–4P, Eaton xPole Combined RCD/MCB Device PKNM/PKN4/PFL4, 1+N–pole, Eaton xPole Combined RCD/MCB Device mRB4/6, 3+N–pole,	AC 230V	Short handle (1Mod)	Auto Recloser
MT56ARE–2N		AC 230V	Long handle (2Mod)	
MT56ASE–1N		AC 230V	Short handle (1Mod)	Auto Recloser with RS485
MT56ASE–2N		AC 230V	Long handle (2Mod)	

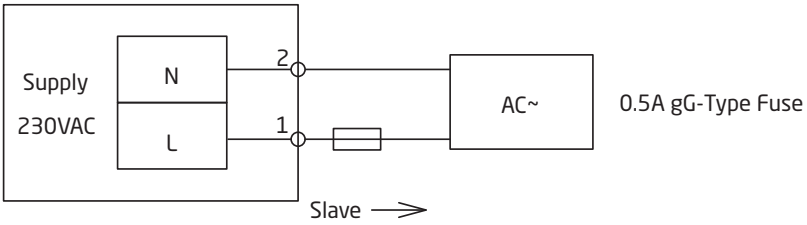
Wiring Diagram & Dimensions

Wiring Diagram

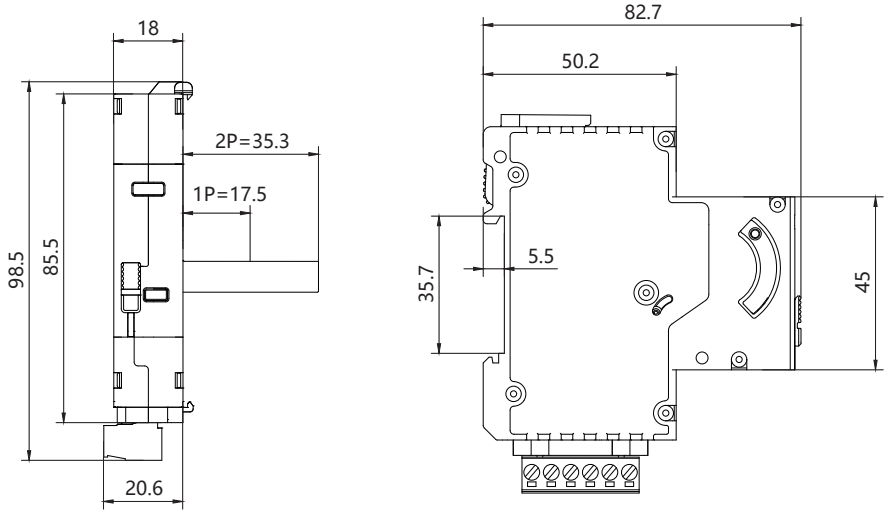
MT56AS Terminal Diagram



MT56AR Terminal Diagram



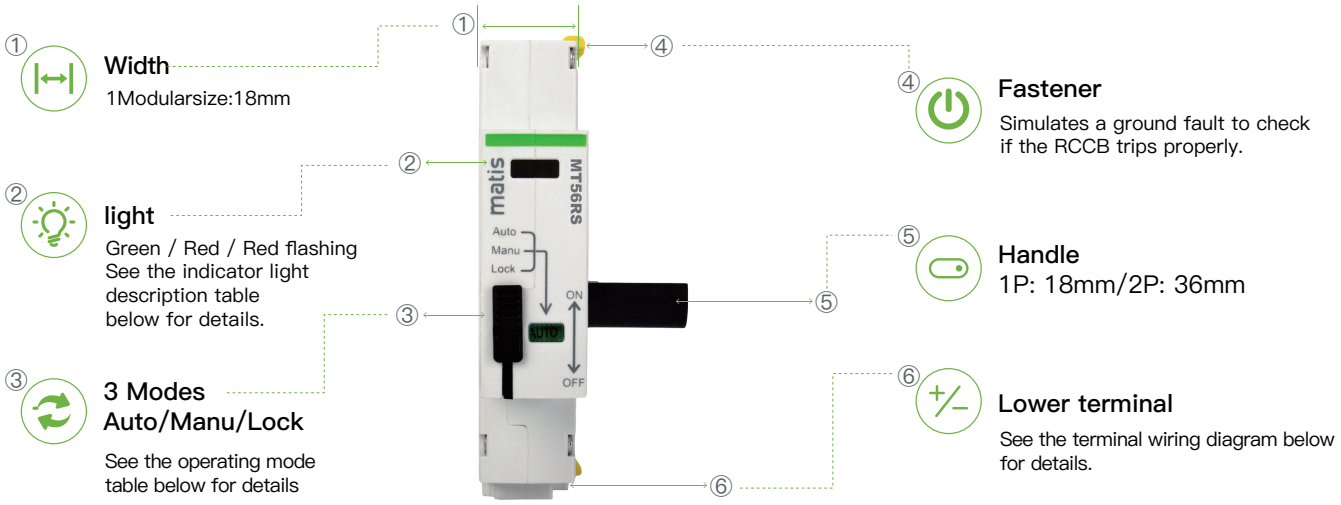
Dimensions



Remote control Auxiliary (RCA)

MT56RS

Interface Description



Indicator Light Descriptions

The MT56R series panels feature integrated multi–color LED that provide real–time feedback on the device's operating status:

Status		Indicates
Green ligh	Solid on	AUTO mode, normal operation
	Flashing	MANU mode, waiting for manual or communication control
Red lantern	Flashing	Reclosing timing sequence in progress
	Solid on	A permanent fault has been detected or the maximum number of reclosing attempts has been reached; the system is locked out
Yellow light	Solid on	The device is in a mechanical lockout state

Operating Mode

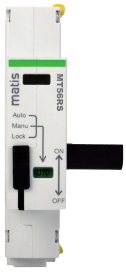
The MT56R series features physical toggle to ensure strict management of operating permissions:

Mode		Function
AUTO	Auto	Supports remote control
MANU	Manual	Remote control not supported
LOCK	Mechanical Lock	Panel toggle locking (supports Φ4mm padlock), with electronic and mechanical safety interlocking, for local maintenance.

Technical Parameter

		MT56RSM	MT56RSE
Associated CB	CB brands	Matis	Eaton
	CB Models	Matis MCB MM56 1–4P Matis RCCB ML56 2P/4P type A/ AC Matis RCBO MR56 1P+N	Eaton FAZ xEffect MCB 1P–4P, Eaton PL6 xPole MCB 1P–4P, Eaton xPole Combined RCD/MCB Device PKNM/PKN4/PFL4, 1+N–pole, Eaton xPole Combined RCD/MCB Device mRB4/6, 3+N–pole,
Electrical character	Rated Voltage (Un)	230 V AC	
	Operating Voltage Range	110V ~ 230V AC	
	Rated Frequency	50 / 60 Hz ±5%	
	Impulse withstand voltage (Uimp)	4 kV	
	Power consumption	Operating: < 20 VA / Standby: < 1.5 VA	
Remote Control	Communication	–	RS485
	Protocol	–	Modbus RTU
Mechanical and Structural Characteristics	Mechanical life	10,000 operations (motor drive mechanism life)	
	Mounting Method	Standard 35 mm DIN rail mounting	
Environmental Parameters	Operating Temperature Range	–25 ° C to +55 ° C	
	Maximum operating altitude	2,000 m	
	Protection Rating	Terminal IP20 / Enclosure IP40	
Standards	Compliance	EN 50557, EN/IEC 63024	
	Certificate	CE	

Order Code

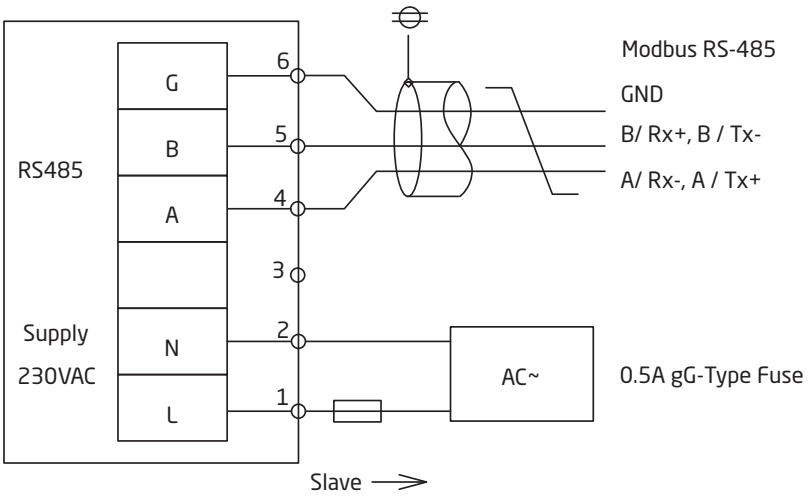


Model Code	Associated CB	Voltage	Handle	Function
MT56RSM–1N	Matis MCB MM56 Matis RCBO MR56 Matis RCCB ML56	AC 230V	Short handle (1Mod)	RS485 Control
MT56RSM–2N		AC 230V	Long handle (2Mod)	
MT56RSE–1N	Eaton FAZ xEffect MCB 1P–4P, Eaton PL6 xPole MCB 1P–4P, Eaton xPole Combined RCD/ MCB Device PKNM/PKN4/PFL4, 1+N–pole, Eaton xPole Combined RCD/MCB Device mRB4/6, 3+N–pole,	AC 230V	Short handle (1Mod)	
MT56RSE–2N		AC 230V	Long handle (2Mod)	

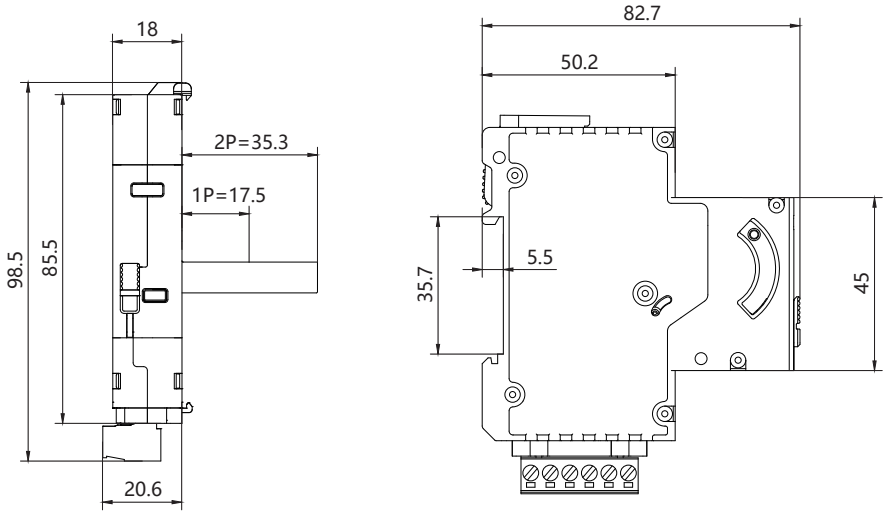
Wiring Diagram & Dimensions

Wiring Diagram

MT56RS Terminal Diagram



Dimensions



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