zigbee RS485 Modbus TCP

2021

SELECTION MANUAL OF CIRCUIT BREAKER FOR IOT



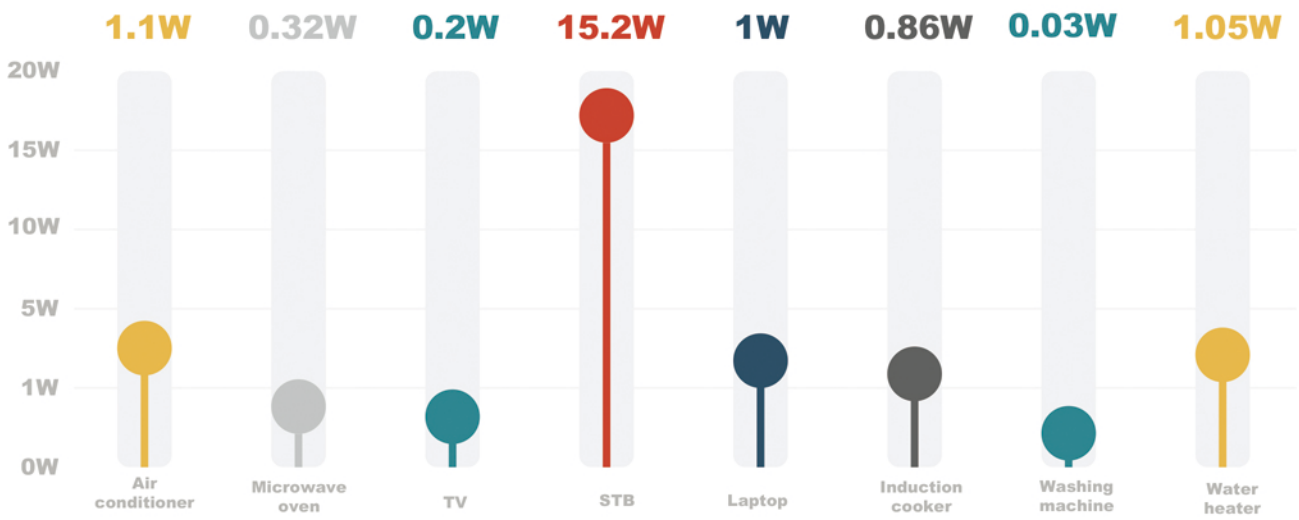
Chtai

POWER SAVING TIPS

Home appliances also consume electricity in standby mode.

State Grid engineers use high-precision meters to test the power consumption of an average household appliance in standby mode

The test results



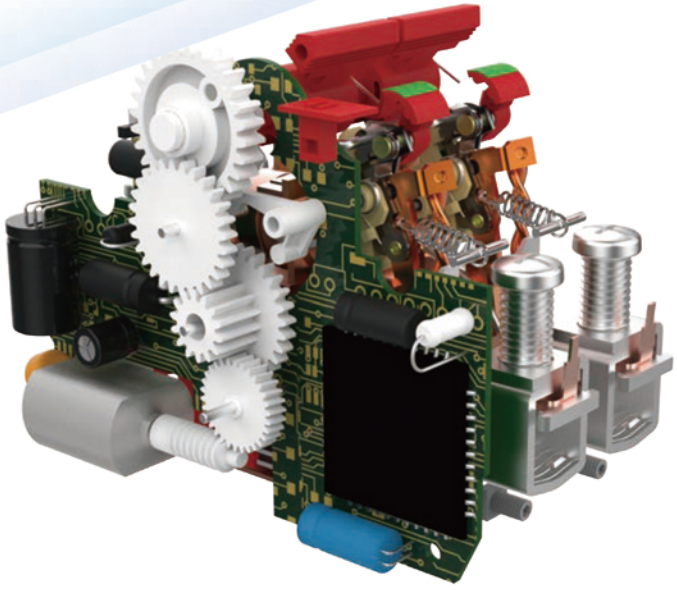
For a typical three-person household, these devices consume at least 50W of power.

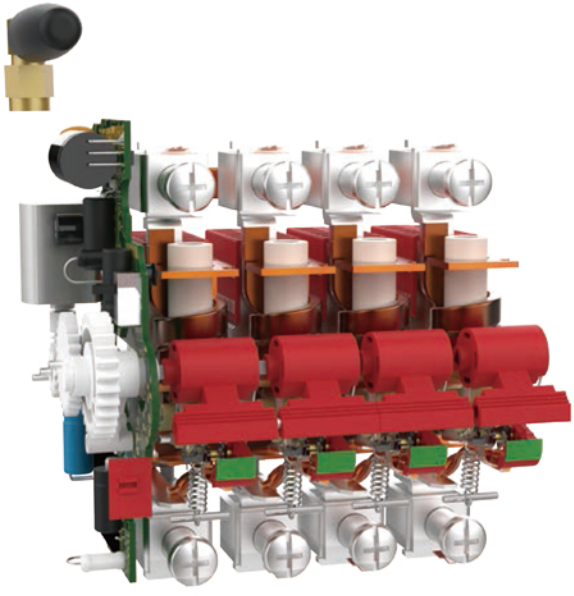
With 50 watts of power, a home produces 1.2kWh of electricity a day,

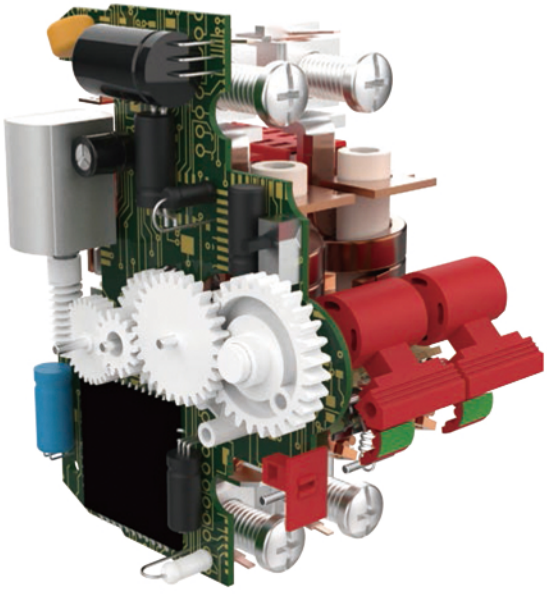
That's 36 kWh a month, 438kWh a year.

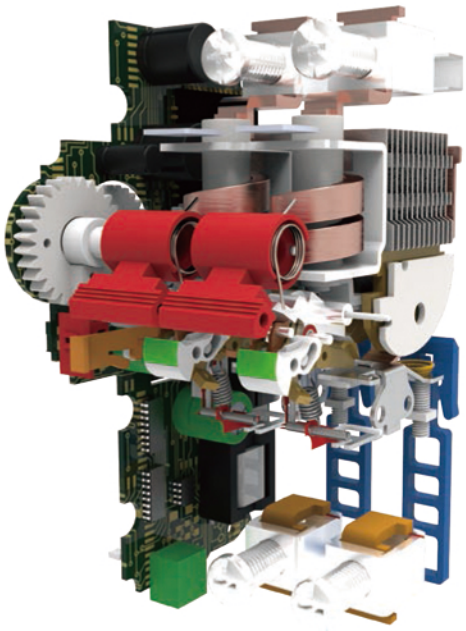
So, unplug unnecessary appliances in time to save money on electricity bills.

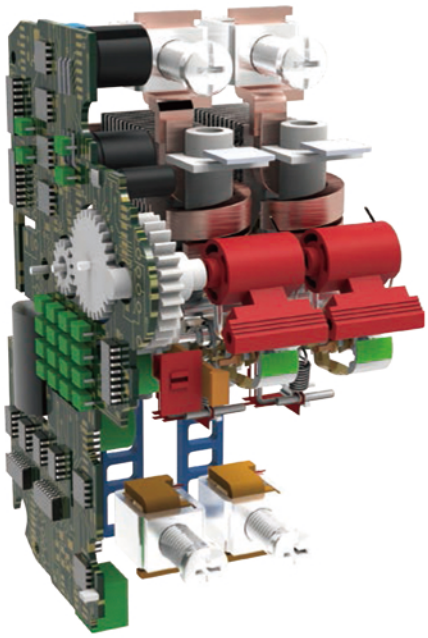
INTERNAL STRUCTURE

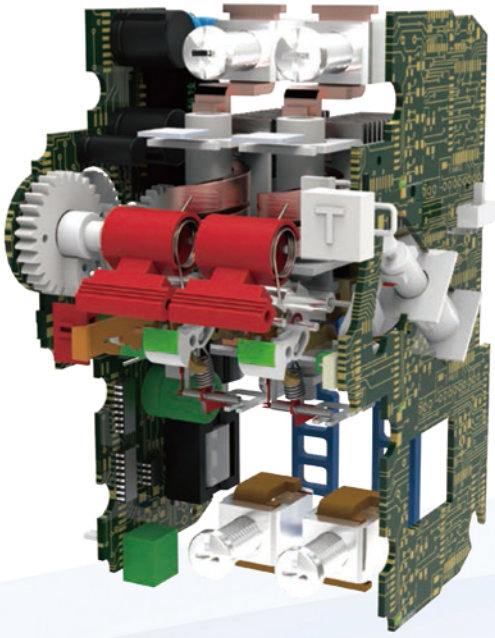


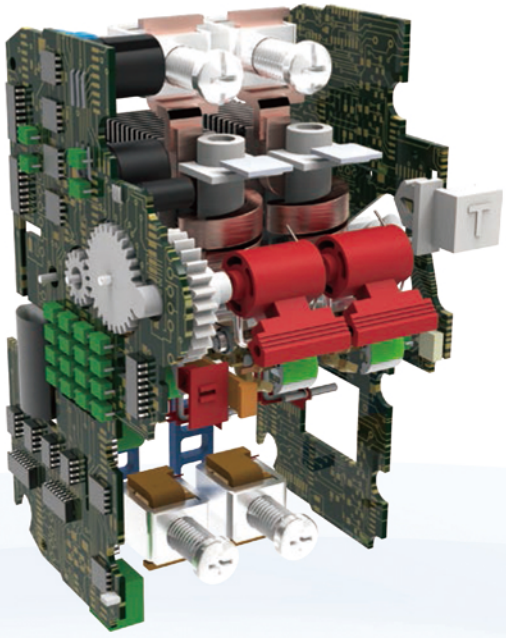












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Tuya WiFi Micro circuit breaker

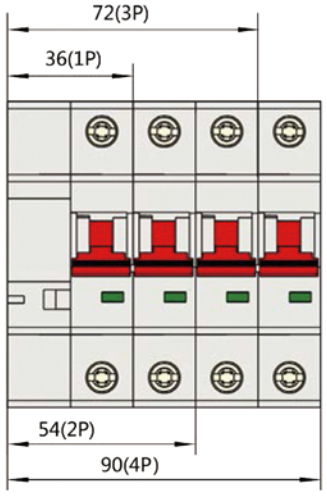
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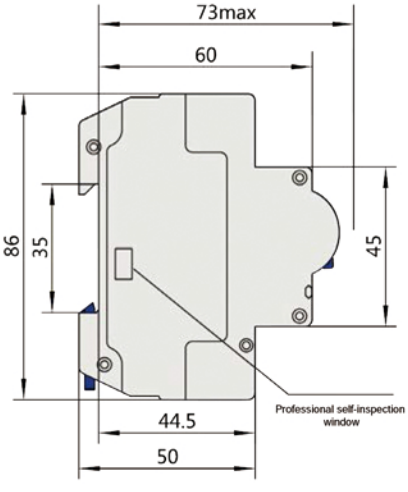
Eg：T W 0 – 2 20
- 20：Rated current
- 2：Pole
- 0：No metering
- W：WiFi
- T：Tuya

Product function

1.Remote control switch	3.Overload protection	5.Mechanical lock	7.Timing control
2.Manual opening and closing	4.Short circuit protection	6.LED light	8.Share control







Technical parameter

- Meet the standards：GB /T 10963.1、NB/T42149、IEC 60898-1
- Rated voltage：AC 230V（1P、2P）/AC 400V（3P、4P）
- Rated frequency：50Hz/60Hz
- protection 1P, 2P, 3P, 4P;
- Specified operating temperature：-25°C～+65°C
- Frame rated current：125A
- Rated current：10A、16A、20A、25A、32A、40A、50A、63A、80A、100A
- Rated short-circuit breaking capacity: 3kA 6kA
- Mechanical life: more than 10,000 times
- Electrical life: more than 6000 times
- Power consumption：≤0.9W

Product diagram



Tuya WiFi Residual current Operated Circuit-breaker

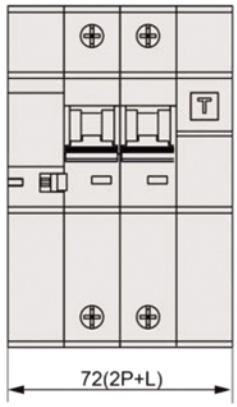
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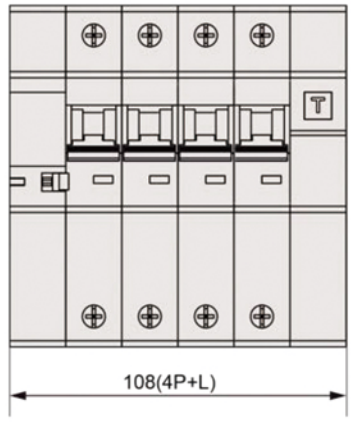
Eg: T W 0 L-2 20
- 20: Rated curren
- 2: Pole
- L: Leakage
- 0: No metering
- W: WiFi
- T: Tuya

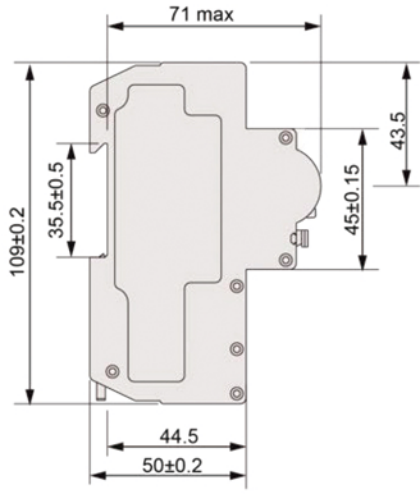
Product function

1.Remote control switch	3.Overload protection	5.Mechanical lock	7.Timing control	9.Electric leakage protection
2.Manual opening and closing	4.Short circuit protection	6.LED light	8.Share control	









Technical parameter

- Meet the standards: GB /T 16917.1 、CQC 1149 、GB /T 16917.22
- Rated voltage:AC 220V (1P、2P) /AC 400V (3P、4P)
- Rated frequency:50Hz/60Hz
- protection 2P, 4P
- Specified operating temperature:-25°C～+65°C
- Frame rated current:100A
- Rated current:10A、16A、20A、25A、32A、40A、50A、63A、80A、100A
- Rated short-circuit breaking capacity: 3kA 6kA
- Mechanical life: ⩾10,000 times
- Electrical life: ⩾ 6000 times
- Power consumption:⩽0.9W
- Residual action current:30mA、100mA
- Residual current operation time:⩽0.1s

Product diagram





Tuya WiFi metering Micro circuit breaker

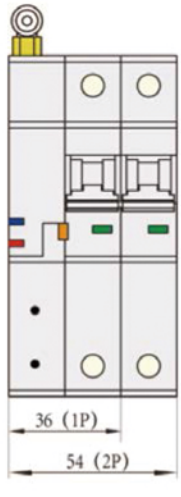
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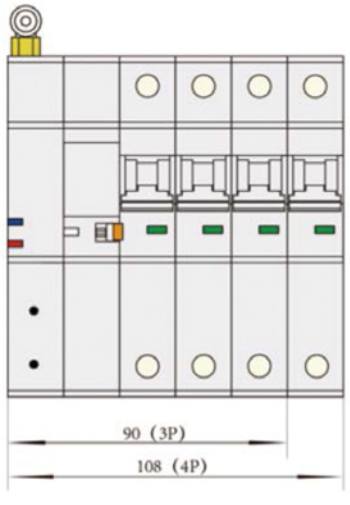
Eg: T W 1 – 2 20
- 20: Rated curren
- 2: Pole
- 1: Metering
- W: WiFi
- T: Tuya

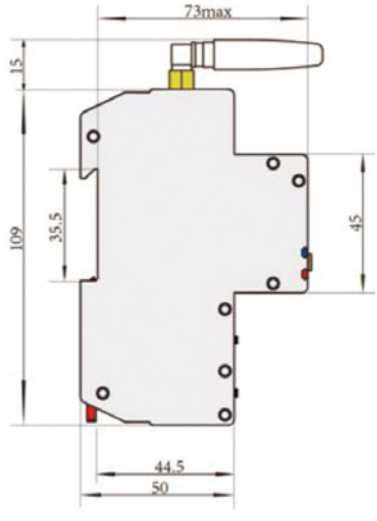
Product function

1. Remote open and close control	7. Current collection	13. Arrears trip setting	19. Overvoltage threshold
2. Manual opening and closing	8. Power acquisition	14. Historical Power query	20. Undervoltage threshold
3. Overload protection	9. Temperature gathering	15. Reverse power statistics	21. Temperature threshold
4. Short circuit protection	10. Timing action setting	16. Zero setting of electric quantity	
5. Mechanical lock construction	11. Countdown action setting	17. Voltage peak recording function	
6. Voltage acquisition	12. Child lock protection function	18. Current threshold	









Product diagram









Tuya WiFi metering Micro circuit breaker

Technical parameter

- Meet the standards: GB /T 10963.1、NB/T42149、IEC 60898-1
- Rated voltage: AC 220V (1P、2P) /AC 400V (3P、4P)
- Rated frequency: 50Hz/60Hz
- protection 1P, 2P, 3P, 4P;
- Specified operating temperature: -25°C～+65°C
- Frame rated current: 100A
- Rated current: 10A、16A、20A、25A、32A、40A、50A、63A、80A、100A
- Rated short-circuit breaking capacity: 3kA 6kA
- Mechanical life: more than 10,000 times
- Electrical life: more than 6000 times
- Precision: Level 1
- Power consumption: ≤2W
- voltage: 0.1V
- Current: 0.001A

Tuya WiFi metering Residual current Operated Circuit-breaker

The order code： TW1L

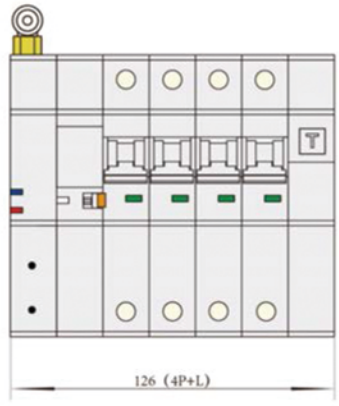
Eg: T W 1 L-2 20
- 20: Rated current
- 2: Pole
- L: Leakage
- 1: Metering
- W: WiFi
- T: Tuya

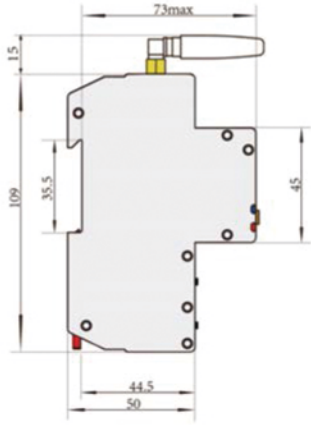
Product function

1. Remote open and close control	6. Voltage acquisition	11. Countdown action setting	16. Zero setting of electric quantity	21. Temperature threshold	26. Leakage timing test
2. Manual opening and closing	7. Current collection	12. Child lock protection	17. Voltage peak recording	22. Leakage value collection	26. Leakage off function
3. Overload protection	8. Power acquisition	13. Arrears trip	18. Current threshold	23. Leakage threshold	
4. Short circuit protection	9. Temperature gathering	14. Historical Power query	19. Overvoltage threshold	24. Leakage test	
5. Mechanical lock	10. Timing action setting	15. Reverse power statistics	20. Undervoltage threshold	25. Remote leakage test	









Product diagram





Tuya WiFi metering Residual current Operated Circuit-breaker

Technical parameter

- Meet the standards: GB /T 16917.1 、CQC 1149 、GB /T 16917.22
- Rated voltage: AC 220V (1P、2P) /AC 400V (3P、4P)
- Rated frequency: 50Hz/60Hz
- protection 2P, 4P
- Specified operating temperature: -25°C～+65°C
- Frame rated current: 100A
- Rated current: 10A、16A、20A、25A、32A、40A、50A、63A、80A、100A
- Rated short-circuit breaking capacity: 3kA 6kA
- Mechanical life: ⩾10,000 times
- Precision: Level 1
- Electrical life: ⩾ 6000 times
- Power consumption: ⩽2W
- Residual action current: 30mA、100mA
- Residual current operation time: ⩽0.1s

Tuya Zigbee Circuit Breaker

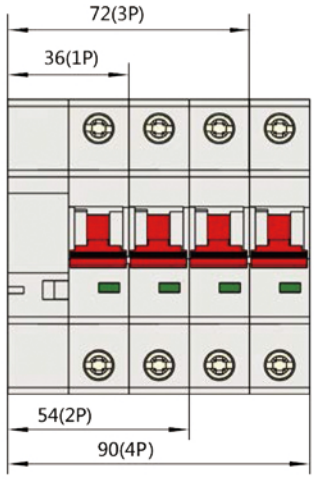
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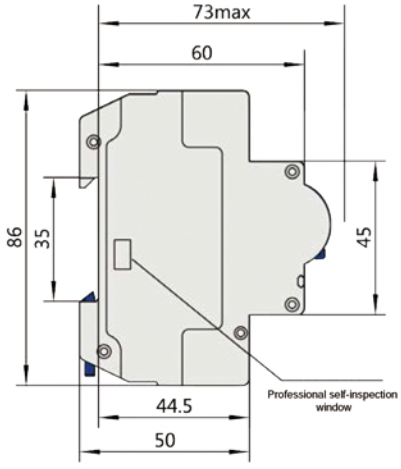
Eg: T Z 0 – 2 20
- 20：Rated current
- 2：Pole
- 0：No metering
- Z：Zigbee
- T：Tuya

Product function

1.Remote control switch	3.Overload protection	5.Mechanical lock	7.Timing control
2.Manual opening and closing	4.Short circuit protection	6.LED light	8.Share control







Technical parameter

- Meet the standards：GB /T 10963.1、NB/T42149、IEC 60898-1
- Rated voltage：AC 220V（1P、2P）/AC 400V（3P、4P）
- Rated frequency：50Hz/60Hz
- protection 1P, 2P, 3P, 4P;
- Specified operating temperature：-25°C～+65°C
- Frame rated current：125A
- Rated current：10A、16A、20A、25A、32A、40A、50A、63A、80A、100A
- Rated short-circuit breaking capacity: 3kA 6kA
- Mechanical life: more than 10,000 times
- Electrical life: more than 6000 times
- Power consumption：≤0.9W

Product diagram



Tuya Zigbee Residual current Operated Circuit–breaker

The order code：TZ0L

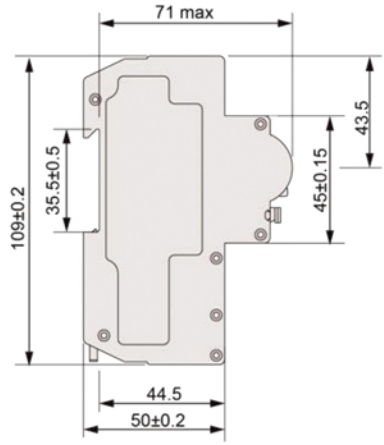
Eg: T Z 0 L-2 20
- 20：Rated current
- 2：Pole
- L：Leakage
- 0：No metering
- Z：Zigbee
- T：Tuya

Product function

1. Remote open and close control	3. Overload protection	5. Mechanical lock	7. Timing control	9. Electric leakage protection
2. Manual opening and closing	4. Short circuit protection	6.LED light	8.Share control	10. Leakage off function







Technical parameter

- Meet the standards：GB /T 16917.1 、CQC 1149、GB /T 16917.22
- Rated voltage：AC 220V（1P、2P）/AC 400V（3P、4P）
- Rated frequency：50Hz/60Hz
- protection 2P, 4P
- Specified operating temperature：-25°C～+65°C
- Frame rated current：100A
- Rated current：10A、16A、20A、25A、32A、40A、50A、63A、80A、100A
- Rated short-circuit breaking capacity: 3kA 6kA
- Mechanical life: ⩾10,000 times
- Electrical life: ⩾ 6000 times
- Power consumption：⩽0.9W
- Residual action current：30mA、100mA
- Residual current operation time:⩽0.1s

Product diagram





Tuya Zigbee metering Micro Circuit breaker

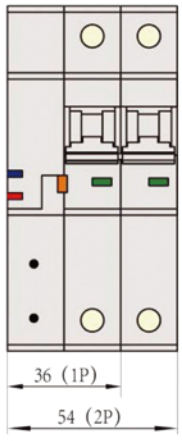
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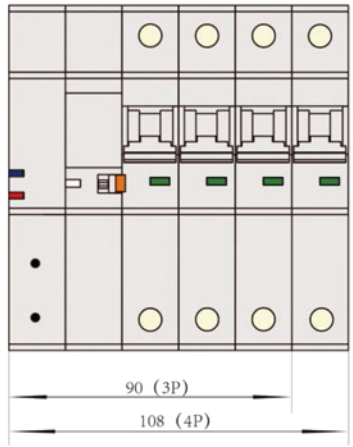
Eg：T Z 1 – 2 20
- 20：Rated current
- 2：Pole
- 1：Metering
- Z：Zigbee
- T：Tuya

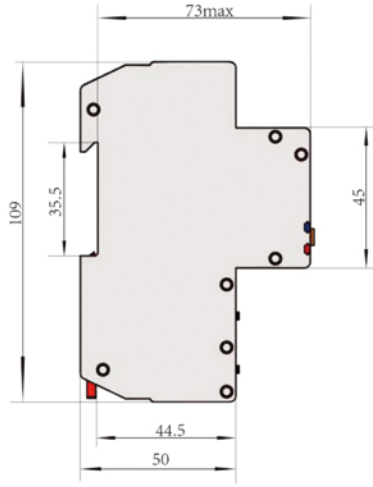
Product function

1. Remote open and close control	6. Voltage acquisition	11. Countdown action setting	16. Zero setting of electric quantity	21. Temperature threshold
2. Manual opening and closing	7. Current collection	12. Child lock protection	17. Voltage peak recording	
3. Overload protection	8. Power acquisition	13. Arrears trip setting	18. Current threshold set	
4. Short circuit protection	9. Temperature gathering	14. Historical Power query	19. Over voltage threshold	
5. Mechanical lock	10. Timing action setting	15. Reverse power statistics	20. Undervoltage threshold	









Product diagram









Tuya Zigbee metering Micro Circuit breaker

Technical parameter

- Meet the standards: GB /T 10963.1、NB/T42149、IEC 60898-1
- Rated voltage: AC 220V (1P、2P) /AC 400V (3P、4P)
- Rated frequency: 50Hz/60Hz
- Protection 1P, 2P, 3P, 4P;
- Specified operating temperature: -25°C～+65°C
- Frame rated current: 100A
- Rated current: 10A、16A、20A、25A、32A、40A、50A、63A、80A、100A
- Rated short-circuit breaking capacity: 3kA 6kA
- Mechanical life: more than 10,000 times
- Electrical life: more than 6000 times
- Precision: Level 1
- Power consumption: ≤2W

Tuya Zigbee metering Residual current Operated circuit–breaker

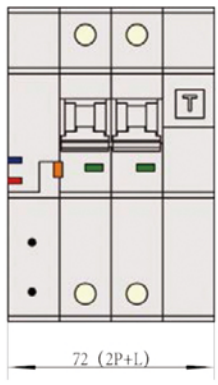
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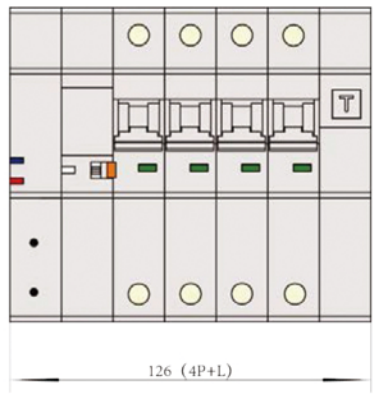
Eg：T Z 1 L–2 20
- 20：Rated current
- 2：Pole
- L：Leakage
- 1：Metering
- Z：Zigbee
- T：Tuya

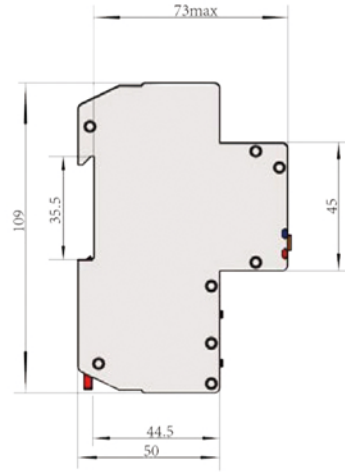
Product function

1. Remote open and close control	6. Voltage acquisition	11. Countdown action setting	16. Zero setting of electric quantity	21. Temperature threshold	26. Leakage timing test
2. Manual opening and closing	7. Current collection	12. Child lock protection	17. Voltage peak recording	22. Leakage value collection	26. Leakage off function
3. Overload protection	8. Power acquisition	13. Arrears trip	18. Current threshold	23. Leakage threshold	
4. Short circuit protection	9. Temperature gathering	14. Historical Power query	19. Over voltage threshold	24. Leakage test	
5. Mechanical lock	10. Timing action setting	15. Reverse power statistics	20. Undervoltage threshold	25. Remote leakage test	









Product diagram





Tuya Zigbee metering Residual current Operated circuit-breaker

Technical parameter

- Meet the standards: GB /T 16917.1 、CQC 1149 、GB /T 16917.22
- Rated voltage:AC 220V (1P、2P) /AC 400V (3P、4P)
- Rated frequency:50Hz/60Hz
- protection 2P, 4P
- Specified operating temperature:-25°C～+65°C
- Frame rated current:100A
- Rated current:10A、16A、20A、25A、32A、40A、50A、63A、80A、100A
- Rated short-circuit breaking capacity: 3kA 6kA
- Mechanical life: ⩾10,000 times
- Precision:Level 1
- Electrical life: ⩾ 6000 times
- Power consumption:⩽2W
- Residual action current:30mA、100mA
- Residual current operation time:⩽0.1s