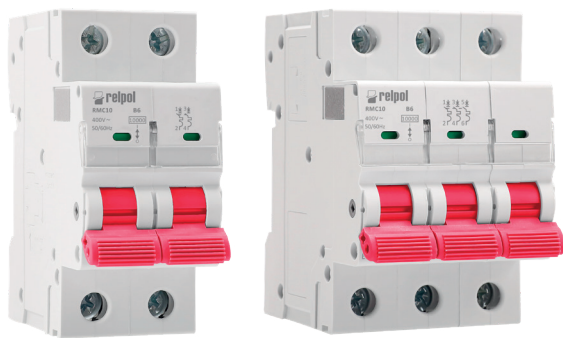


RMC10

miniature circuit breaker



Breaking capacity 10 kA • IEC/EN 60898-1

- Fork and pin busbar connection (top/bottom)
- Transparent ID window
- Contact position indicator
- Connection capacity 0.5–25 mm²
- Mounting on DIN TH35 rail
- Recognitions, certifications:  , RoHS 2.0

The RMC10 miniature circuit breaker is designed for AC 50/60 Hz circuits with rated voltage 230/400 V AC and rated current up to 63 A, providing reliable overload and short-circuit protection. It also serves for infrequent circuit switching operations.

The circuit breaker is suitable for various installations including industrial facilities, commercial buildings, high-rise structures, and residential applications.

Technical Specification

Rated current (I_n)	1, 2, 3, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63 A
Rated voltage (U_e)	230/400 V AC
Rated insulation voltage (U_i)	500 V
Rated impulse withstand voltage (U_{imp})	4 kV
Number of poles	1P, 2P, 3P, 4P
Tripping curves	B, C, D
Operating frequency	50/60 Hz
Breaking capacity	10 kA
Mechanical life	20,000 switching cycles
Electrical life	10,000 switching cycles
Tightening moment	2.0 N·m
Class of protection	IP20
Connection capacity	0.5–25 mm ²
Mounting modes	DIN TH35 rail mounting

Temperature Compensation

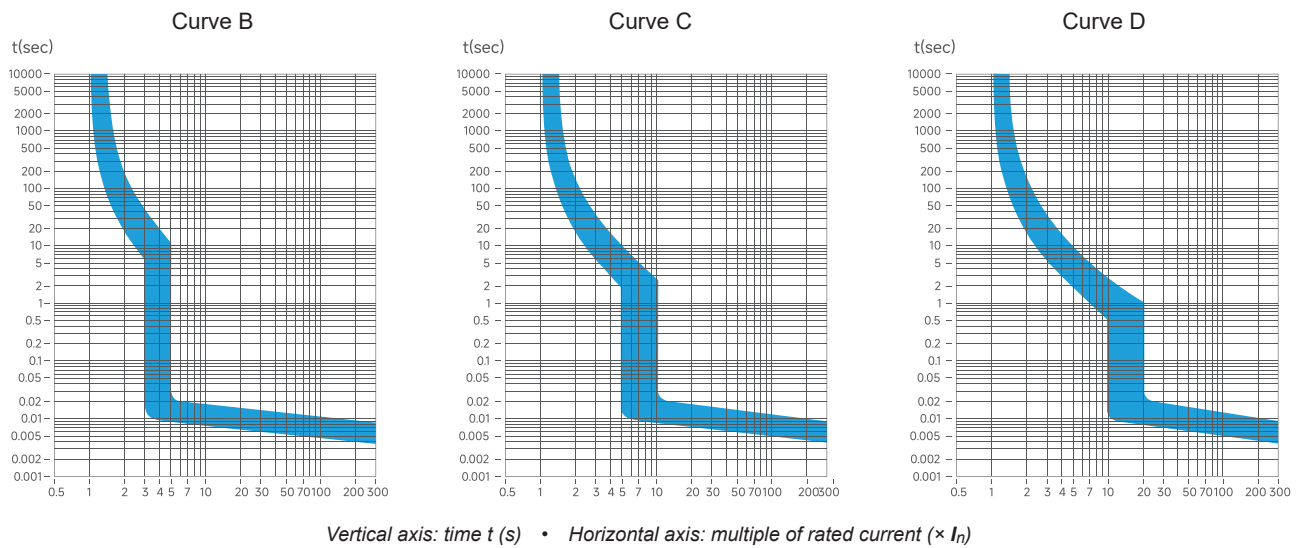
If the ambient temperature differs from the reference temperature of 30 °C, the following correction factors should be applied:

Ambient Temperature	–20 °C	–10 °C	0 °C	10 °C	20 °C	30 °C	40 °C	50 °C	60 °C
Current Correction Factor	1.25	1.2	1.15	1.10	1.05	1.00	0.95	0.90	0.85

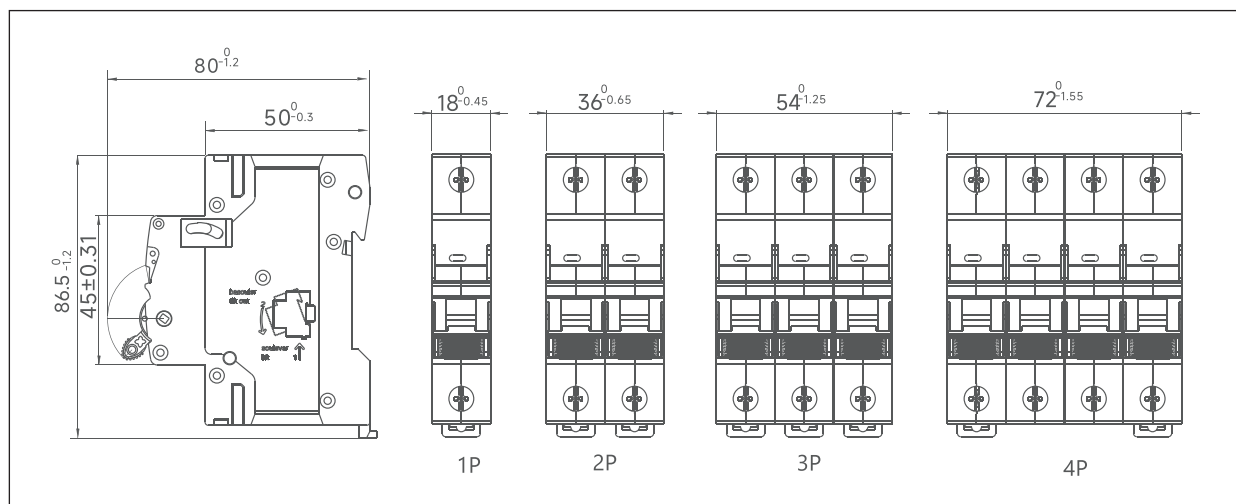
RMC10

miniature circuit breaker

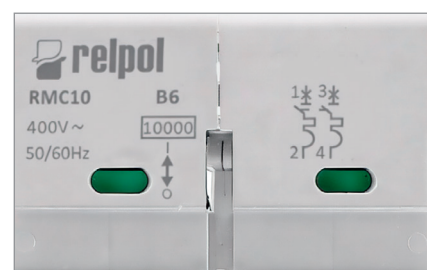
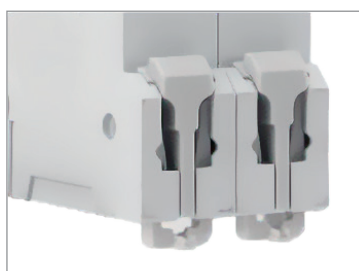
Tripping Curves



Outline Overall And Installing Dimensions



1P	2P	3P	4P
18 mm	36 mm	54 mm	72 mm

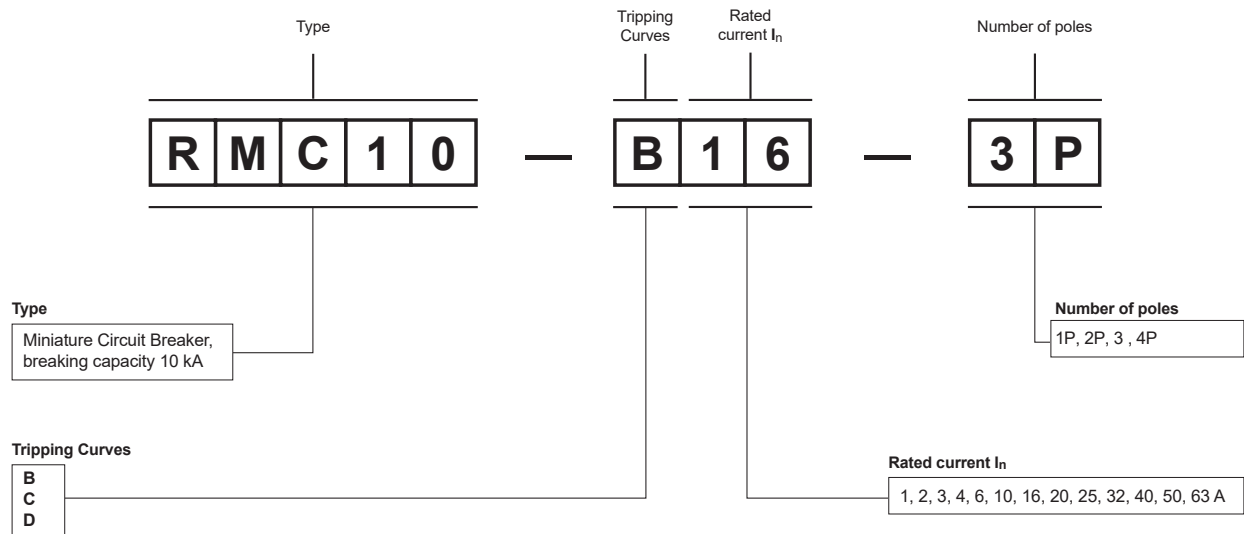


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RMC10

miniature circuit breaker

Ordering codes



Examples of ordering codes:

RMC10-B04-1P	Miniature Circuit Breaker, breaking capacity 10 kA, curve B, rated current (I_n) 4 A, 1-pole
RMC10-C02-3P	Miniature Circuit Breaker, breaking capacity 10 kA, curve C, rated current (I_n) 2 A, 3-pole
RMC10-D40-3P	Miniature Circuit Breaker, breaking capacity 10 kA, curve D, rated current (I_n) 40 A, 3-pole

PRECAUTIONS:

1. Ensure that the parameters of the product described in its specification provide a safety margin for the appropriate operation of the device or system and never use the product in circumstances which exceed the parameters of the product. 2. Never touch any live parts of the device. 3. Ensure that the product has been connected correctly. An incorrect connection may cause malfunction, excessive heating or risk of fire. 4. In case of any risk of any serious material loss or death or injuries of humans or animals, the devices or systems shall be designed so to equip them with double safety system to guarantee their reliable operation.

Additional accessories for RMC miniature circuit breakers

General

This series circuit breaker electrical attachment is my company specially designed for the RMC6 and RMC10 series circuit breaker auxiliary function element, in the electric lamp line or household, building, can according to need to choose a different electrical accessories with RMC6 and RMC10 series circuit breaker, so as to realize the remote control, breaker points status indication, alarm signals and undervoltage, overvoltage protection function.

This product meets the standard of IEC/EN60947-2.

- Screw-type thread pressed terminal. connent with 1 or 2 conducting wire of 2.5mm² max. cross sectional area.
- Obvious marks upon terminal

Model and meaning

- AU10 – the auxiliary contact
- AL10 – Alarm contacts
- SH10 – The shunt tripping device
- SH10+AU10 – The shunt tripping device + the auxiliary contact
- UV10 – Undervoltage tripping
- OV10 – Overvoltage trip
- UV10+OV10 – Undervoltage tripping + Overvoltage trip

Product Description

Code	Product Description
AU10	OF Auxiliary Contacts for RMC10
AU6	OF Auxiliary Contacts RMC6
AL10	SD Alarm for RMC6
AL6	SD Alarm for RMC10
SH10	MX Shunt Release for RMC10
SH6	MX Shunt Release for RMC6
UV10	NV undervoltage for RMC10
UV6	NV undervoltage for RMC6
OV10	NN overvoltage for RMC10
OV6	NN overvoltage for RMC6
SH10+AU10	MX+OF Shunt Release Alarm for RMC10
SH6+AU6	MX+OF Shunt Release Alarm for RMC6
UV10+OV10	MV+MN Undervoltage Tripping for RMC10
UV6+OV6	MV+MN Undervoltage Tripping for RMC6
R10M-I	Mechanical interlock for RMC10
R6M-I	Mechanical interlock for RMC6

Additional accessories for RMC miniature circuit breakers

Usage

- AU10: To provide auxiliary signal, control of auxiliary circuit
- AL10: When the circuit breaker for protected line fault points away, provide alarm signal
- SH10: When the control voltage exceeds the 70% ~ 110% of the rated voltage, the circuit breaker tripping, realize the line protection.
- SH10+AU10: Remote breaking circuit, and through the auxiliary contact to achieve control of the auxiliary circuit
- UV10: Line voltage drop to 35% ~ 70% of the rated voltage, the circuit breaker tripping, until the voltage recovery to more than 85%, the breaker can be manually switched on
- OV10: Overvoltage trip.
- UV10+OV10: Undervoltage tripping with overvoltage function.

The main technical parameters

AU10 + AL10 Technical parameters

Voltage (AC or DC)	Working current
415 V AC	3
240 V AC	6
130 V DC	1
48 V DC	2
24 V DC	6

SH10+AU10 and SH10 Technical parameters

	Rated supply voltage (U_s)	Pull-in voltage
SH10+AU10	AC/DC 220~380 V	$(0.7 \sim 1.1)U_s$
SH10	AC/DC 110~220 V	$(0.7 \sim 1.1)U_s$
	AC/DC 24~48 V	

UV10 and UV10+OV10 Technical parameters

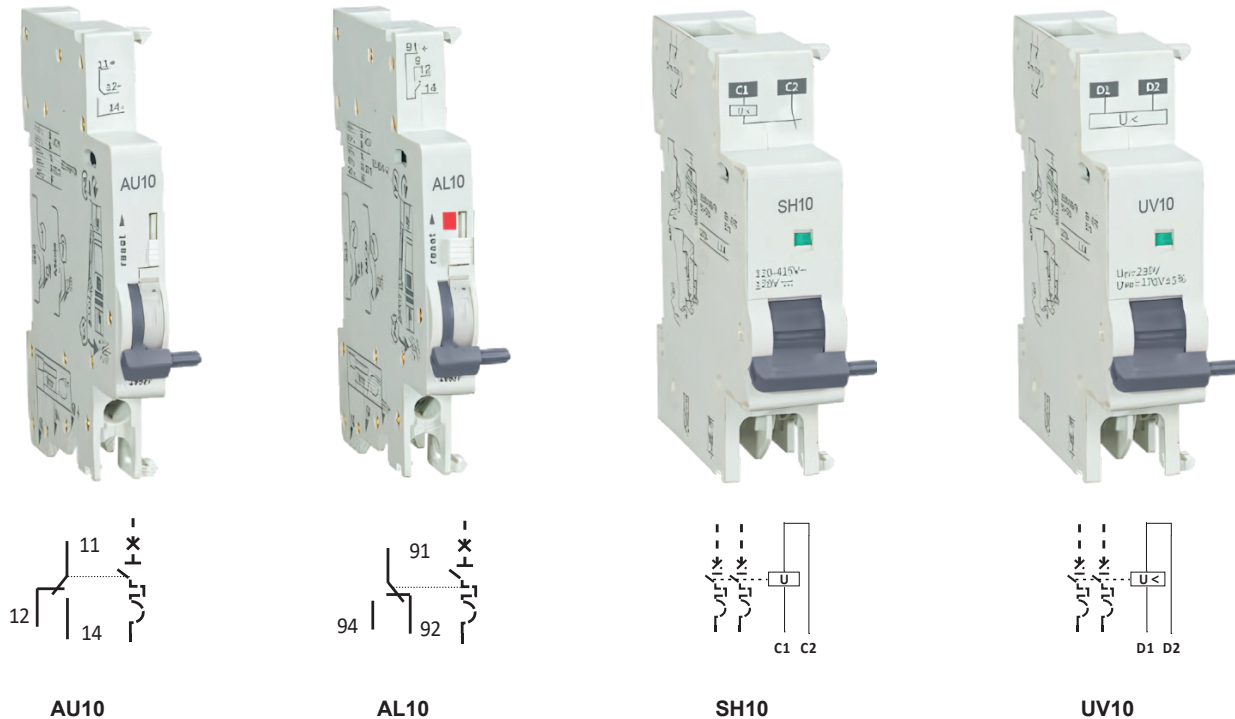
	The rated working voltage (U_e)	Action is the voltage
UV10	AC 230, 48 V / DC 48 V	$(0.35 \sim 0.75)U_e$
UV10+OV10	AC 230	Overvoltage: $275 \pm 5 \% V$ Under voltage: $170 \pm 7 V$

Additional accessories for RMC miniature circuit breakers

Wiring diagram

The drawings show terminal diagrams for:

- AU10 – contacts 11/12/14 (changeover contact)
- AL10 – contacts 91/92/94 (changeover contact)
- SH10 – coil terminals C1/C2
- UV10 – coil terminals D1/D2



Overall and assembly

The illustrations show the AU10, AL10, SH10 and UV10 modules, as well as the UV10 module together with the RMC10 circuit breaker (snap-on mounting on a DIN rail, next to the main circuit breaker).



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