

EPRM Series (Electronic/Electro-magnetic) Residual Current Operated Circuit Breaker(RCBO)

Technical data

Standard	EN / IEC 61009 -1	
Breaking capacity	6kA ,10kA	
Protection	Ground fault, overcurrent and short circuit	
Rated current, I _n	6, 10, 16, 20, 25, 32, 40A	
Operating, I _{Δn}	10,30,100,300mA	
Characteristic	B, C Curve	
Rated residual current operated making & breaking capacity I _{Δm}	500A	
Rated residual non-operated current I _{Δn}	0.5I _{Δn}	
Rated impulse withstand voltage U _{imp}	4000V	
Number of poles	1P+N	
Rated voltages 2pole	240VAC	
Ambient temperature (°C)	-25~+40, Max, 95%humidity	
Residual current off-time	≤ 0.1 sec.	
Type of trip	Ground fault	Electronic/Electro-magnetic
	Over current	Thermal-magnetic
Protection degree	IP20	
Terminal capacity	10mm ² flexible/16mm ² rigid	
Installation	35mm DIN rail	
Width	2 modules	
Type of terminal	Lug type and Pin type	



EPRM

EPRM RCBO	Rated current (A)	$I_{\Delta n}$	Type AC 		Type A 		Packing unit	
			B curve	C curve	B curve	C curve		
	6	10mA	EPRM-B6/10	EPRM-C6/10	EPRM-B6/10-A	EPRM-C6/10-A	1	
			10	EPRM-B10/10	EPRM-C10/10	EPRM-B10/10-A	EPRM-C10/10-A	1
			16	EPRM-B16/10	EPRM-C16/10	EPRM-B16/10-A	EPRM-C16/10-A	1

	10	30mA	EPRM-B6/30	EPRM-C6/30	EPRM-B6/30-A	EPRM-C6/30-A	1	
			10	EPRM-B10/30	EPRM-C10/30	EPRM-B10/30-A	EPRM-C10/30-A	1
			16	EPRM-B16/30	EPRM-C16/30	EPRM-B16/30-A	EPRM-C16/30-A	1
			20	EPRM-B20/30	EPRM-C20/30	EPRM-B20/30-A	EPRM-C20/30-A	1
			25	EPRM-B25/30	EPRM-C25/30	EPRM-B25/30-A	EPRM-C25/30-A	1
			32	EPRM-B32/30	EPRM-C32/30	EPRM-B32/30-A	EPRM-C32/30-A	1
			40	EPRM-B40/30	EPRM-C40/30	EPRM-B40/30-A	EPRM-C40/30-A	1

	10	100mA	EPRM-B6/100	EPRM-C6/100	EPRM-B6/100-A	EPRM-C6/100-A	1	
			10	EPRM-B10/100	EPRM-C10/100	EPRM-B10/100-A	EPRM-C10/100-A	1
			16	EPRM-B16/100	EPRM-C16/100	EPRM-B16/100-A	EPRM-C16/100-A	1
			20	EPRM-B20/100	EPRM-C20/100	EPRM-B20/100-A	EPRM-C20/100-A	1
25			EPRM-B25/100	EPRM-C25/100	EPRM-B25/100-A	EPRM-C25/100-A	1	
32			EPRM-B32/100	EPRM-C32/100	EPRM-B32/100-A	EPRM-C32/100-A	1	
40			EPRM-B40/100	EPRM-C40/100	EPRM-B40/100-A	EPRM-C40/100-A	1	

10		300mA	EPRM-B6/300	EPRM-C6/300	EPRM-B6/300-A	EPRM-C6/300-A	1	
			10	EPRM-B10/300	EPRM-C10/300	EPRM-B10/300-A	EPRM-C10/300-A	1
			16	EPRM-B16/300	EPRM-C16/300	EPRM-B16/300-A	EPRM-C16/300-A	1
			20	EPRM-B20/300	EPRM-C20/300	EPRM-B20/300-A	EPRM-C20/300-A	1
			25	EPRM-B25/300	EPRM-C25/300	EPRM-B25/300-A	EPRM-C25/300-A	1
			32	EPRM-B32/300	EPRM-C32/300	EPRM-B32/300-A	EPRM-C32/300-A	1
			40	EPRM-B40/300	EPRM-C40/300	EPRM-B40/300-A	EPRM-C40/300-A	1

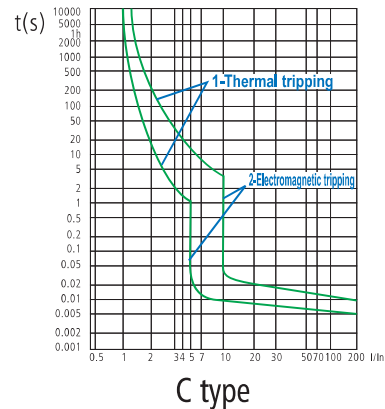
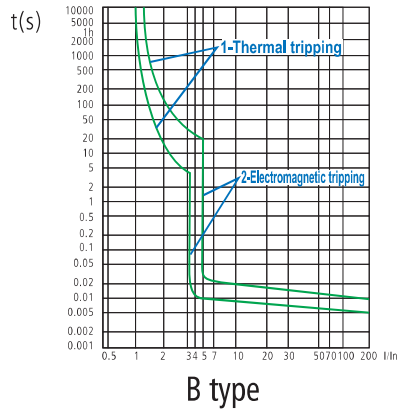
Type AC



Type A



1. Curves



2. Wiring

The suitable conductors should be used for connection, see table below for relative parameters.

Rated current In (A)	Cross section area s (mm ²)	Tightening torque (N . m)
6	1	2
10	1.5	2
16~20	2.5	2
25	4	2
32	6	2
40	10	2

3. Types

Both RCCBs and RCBOs are divided into types depending on the operating function:

Type AC : For which tripping is ensured for residual sinusoidal alternating currents, whether suddenly applied or slowly rising.

Type A : For which tripping is ensured for residual sinusoidal alternating currents and residual pulsating direct currents, whether suddenly applied or slowly rising.

4. Tripping sensitivity data

RCD with a rated residual current of maximum 30 mA are used for personnel, material and fire protection, as well as for protection against direct contact.

RCD with a rated residual current of maximum 300 mA are used as preventative fire protection in case of insulation faults.

RCD with a rated residual current of 100 mA co-ordinated with the earth system according to the formula $I\Delta n < 50/R$, to provide protection against indirect contacts.

5. Overall and mounting dimensions

