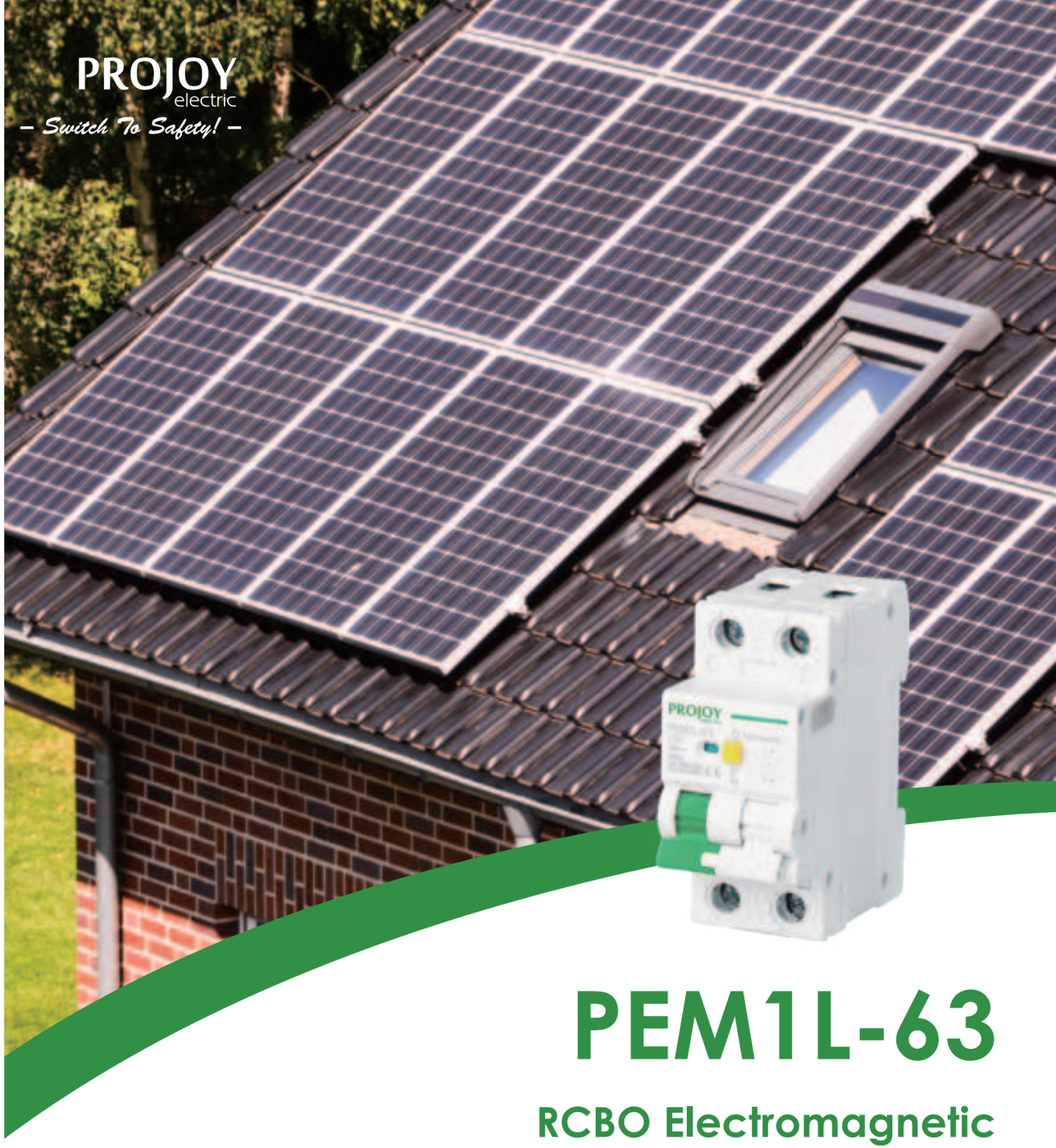
PROJOY
electric

– Switch To Safety! –



PEM1L-63

RCBO Electromagnetic

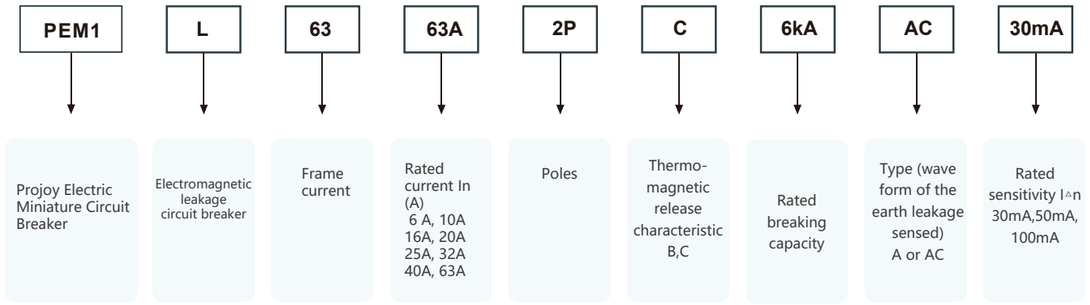
No.90 Chunyao Rd, Xiangcheng District, Suzhou, Jiangsu, China
+86 512 6620 4368 / +86 512 6878 6489
sales@projoy-electric.com
www.projoy-electric.com

V1.0 20231124

PEM1L-63 RCBO Electromagnetic

PROJOY electric
– Switch To Safety! –

Naming rules



General

1. Protection against overload and short-circuit currents
2. Protection against the effects of sinusoidal alternating earth fault currents
3. Protection against indirect contacts and additional protection against direct contacts.
4. Protection against fire hazard caused by insulation faults
5.Used in residential building
6. According to the type of instantaneous release classified as follows: type B(3-5)In,type C(5-10)In

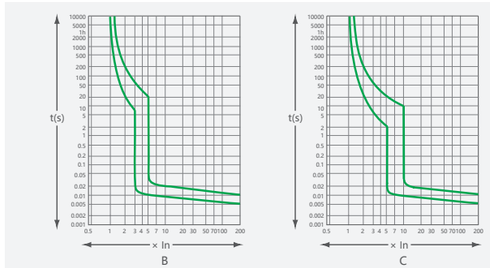
PEM1L-63 RCBO is an combined structure,the N pole is on the right side of theproduct.It has the following characteristics:Without auxiliary power supply, it overcomes the defects of electronic products;poor anti-interference, be greatly affected by power grid voltage fluctuation andcan' t be protected if the neutral line is disconnected:Test circuit is dynamic controlled, and the test resistance is not easy to burn;N pole contact can be opened and closed separately, with isolation function;The impulse withstand voltage between L pole and N pole can reach up to 6000V:The impulse withstand voltage between L pole, N pole and the metal support canreach up to 8000V:Under the impact current of 200A, it has the ability to bear, and does not causemisoperation.

Release

Type	Test current	Tripping time	Expected result
B,C	1.13In	t≤1h(In≤63A)	Not tripping
	1.13In	t≤2h(In＞63A)	
B,C	1.45In	t＜1h(In≤63A)	Tripping
	1.45In	t＜2h(In＞63A)	
B,C	2.55In	1s＜t＜60s(In≤32A)	Tripping
	2.55In	1s＜t＜120s(In＞32A)	
B	3In	t≤0.1s	Not tripping
C	5In	t≤0.1s	
B	5In	t＜0.1s	Tripping
C	10In	t＜0.1s	

Curve

B,C Curve



Modular DIN Rail

PEM1L-63 RCBO Electromagnetic

PROJOY electric
– Switch To Safety! –

Specifications

Type	Standard		IEC/EN 61009-1
Electrical features	Leakage type		Electromagnetic type
	Rated current In	A	6, 10, 16, 20, 25, 32, 40, 63
	Type (wave form of the earth leakage sensed)		A,AC
	Poles	P	1P+N
	Rated voltage Ue	V	230
	Insulation voltage Ui	V	500
	Rated frequency	Hz	50/60
	Rated breaking capacity Icn	A	6000
	Rated impulse withstand voltage (1.2/50) Uimp	V	4000
	Dielectric test voltage at ind. Freq. for 1min	kV	2
	Rated sensitivity IΔn	A	0.03, 0.05, 0.1
	Break time under IΔn	s	≤0.1
	Rated residual making and breaking capacity IΔm	A	500
	Pollution degree		2
Mechanical features	Electrical life	t	4000
	Mechanical life	t	8000
	Protection degree		IP20
	Storage temperature	℃	-25~+70
	Ambient temperature (with daily average≤35℃)	℃	-5~+40
Installation	Terminal connection type		Cable/U-type bar/Pin-type busbar
	Terminal size top / bottom for cable	mm²	16
		AWG	18-5
	Terminal size top / bottom for busbar	mm²	16
		AWG	18-5
	Tightening torque	N*m	1.2
		In-lbs	11
	Mounting		On DIN rail EN 60715(35mm)by means of fast clip device
	Connection		From top and bottom

Overall and mounting dimensions(mm)

