1.Function

The RCBO is electronic type with high reliability as its function has nothing with the voltage of the power.
With one handle, the circuit breaker and RCD operate separately. When it is over current, only the handle of breaker disconnect. So has the function of judging the errror.
With contact indicator (red and green). And Plug-in installation type.
With indicative cover where can put the tag (which is used to mark the control circuit).
When fault caused in the circuit, the handle will stop in the central position, which can be used to judge if the breaker cut-off artificially or automatically. When fault is solved, the breaker only can be switched on after the handle is put on the position of “off ”.
Both the cover and handset are with rational curvature, comfortable handles and compact appearance design.

2.Nomenclature

EBS 1BLP - 63 / 1P+N

- Poles
- Rated current
- Design code
- Company code

3.Specifications

Standard		IEC/EN 61009-1
Type		Electronic type
Residual current characteristics		AC
Poles	P	1P+N
Tripping characteristic		B, C, D
Rated short-circuit capacity	kA	6
Rated current (A)	A	6, 10, 16, 20, 25, 32, 40, 50, 63
Rated voltage		240V AC 50/60Hz
Rated residual operating current (mA)	mA	10, 30, 100, 300
Tripping duration		Instantaneous≤0.1s
Electrical life (times)		2000
Mechanical life (times)		20000
Protection grade		IP20
Installation		Plug in

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4.Applicable Working and Busbar Connection

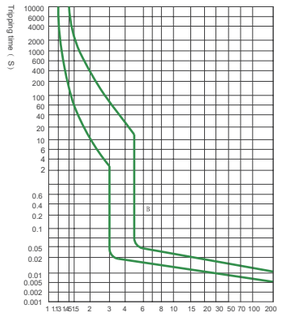
Model	Breaking capacity
Ambient temperature	-5~+40℃, the average value cannot exceednto +35℃ within 24h
Altitude	≤2000m
Relative humidity	≤95%
Pollution level	II.It should be used appropriate casing to protect against high level of pollution
Installation location	mount on the place where has no obvious vibration or impact

5.Release

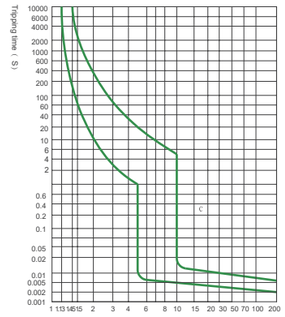
Item	Tripping Curve	Test current In(A)	Initial Status	Time limit for tripping or non-tripping	Expected result	Remarks
a	B/C/D	1.13In	Cold	t≤1h	Non-tripping	Current smoothly rises to specified value within 5s
b	B/C/D	1.45In	Following item a test	t<1h	Tripping	
c	B/C/D	2.55In	Cold	1s<t<60s(In≤32A) 1s<t<120s(In>32A)	Tripping	
d	B	3In	Cold	t≤0.1s	Non-tripping	Switch on the power supply by closing the auxiliary switch
	C	5In				
	D	10In				
e	B	5In	Cold	t<0.1s	Tripping	
	C	10In				
	D	20In				

Note: The term"cold "means that the test is carried out at a reference calibration temperature without load before the test.

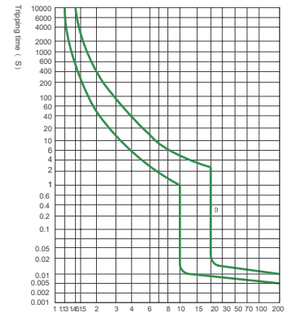
Curve B



Curve C



Curve D



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6.Conductor

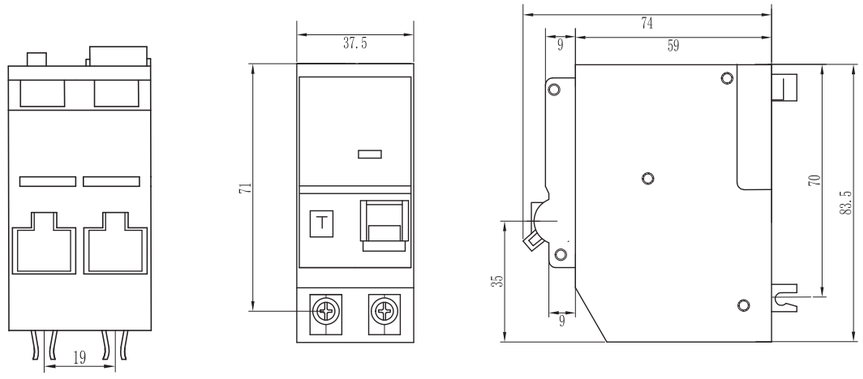
Copper cross-section(mm^2)	Rated current In(A)
1	In≤6
1.5	6<In≤13
2.5	13<In≤20
4	20<In≤25
6	25<In≤32
10	32<In≤50
16	50<In≤63

7.Temperature Derating

The maximum permissible current in a circuit breaker depends on the ambient temperature where the circuit breaker is placed. Ambient temperature is the temperature inside the enclosure or switchboard in which the circuit breakers are installed. The reference temperature is 30℃.

When several simultaneously operating circuit breakers are mounted side by side in a small enclosure,the temperature rise inside the enclosure causes a reduction in current rating.
You must then assign the rating (already derated if necessary according to ambient temperature), a derating factor of 0.8.

8.Dimensions



9.Order Note

Following items should be marked when ordering	Ordering sample
Product name, model & frame level Poles Tripping characteristic and rated current Quantity	To order the EBS1BLP RCBO, frame level 63A, 1P+N, rated current is 20A, tripping curve is C, rated residual current 30mA 6kA and quantity is 100 pieces, should be marked: EBS1BLP/C20/30mA 6kA, 100PCS.