1.Function

Suitable for industrial, commercial, high-rise and civil residences circuit protection.

- Overload& short circuit protection
- Protect people against indirect contacts and additional protection against direct contacts.
- Protect installations against fire hazard due to insulation faults.
- Control electric circuits

2.Nomenclature

BX 1LE - 40 / 32

- 32 — Rated residual current(mA)
- 40 — Frame level
- 1LE — Design code
- BX — Company code

3.Specifications

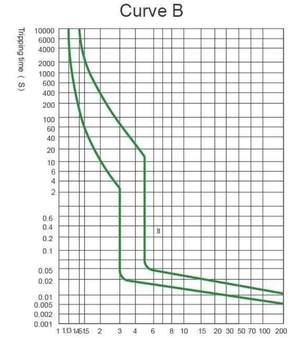
Type	Standard		IEC/EN 61009-1
Electrical features	Poles	P	1P+N
	Type(wave form of the earth leakage sensed)		AC, A
	Thermo-magnetic release characteristic		B, C
	Rated current In	A	6, 10, 16, 20, 25, 32, 40
	Rated voltage Ue	V	240
	Rated sensitivity IΔn	A	0.03, 0.1
	Rated residual making and breaking capacity IΔm	A	500(In≤40A)
	Rated short-circuit capacity Icn	A	4500, 6000
	Break time under IΔn	s	≤0.1
	Rated frequency	Hz	50/60
	Rated impulse withstand voltage(1.2/50)Uimp	V	4000
	Dielectric test voltage at ind.Freq.for 1min	kV	2
	Insulation voltage Ui	V	250
	Pollution grade		2
Mechanical features	Electrical life	t	2000
	Mechanical life	t	10000
	Contact position indicator		Yes
	Protection grade		IP20
	Ambient temperature(with daily average≤35°C)	°C	-5~+40
	Storage temperature	°C	-25~+70
Installation	Terminal connection type		Cable/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 EN60715(35mm)by means of fast clip device
	Connection		From top and bottom

4.Release

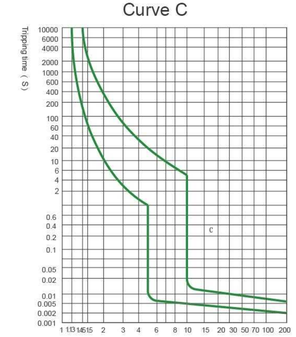
Item	Tripping Curve	Test current In(A)	Initial Status	Time limit for tripping or non-tripping	Expected result	Remarks
a	B/C	1.13In	Cold	t≤1h	Non-tripping	Current smoothly rises to specified value within 5s
b	B/C	1.45In	Following item a test	t<1h	Tripping	
c	B/C	2.55In	Cold	1s<t<60s(In≤32A) 1s<t<120s(In>32A)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

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



5.Conductor

Copper cross-section(mm²)	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≤40

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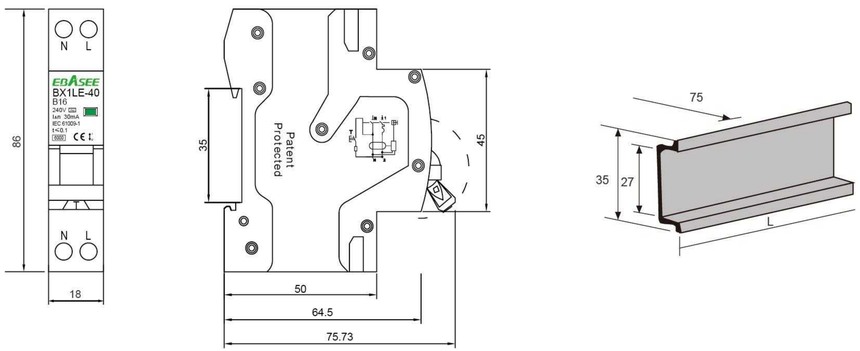
6.Temperature Derating

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.

7.Dimensions



8.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 BX1LE-40 RCBO, frame level 32A, rated current is 20A, tripping curve is C, rated residual current 30mA 4.5kA and quantity is 100 pieces, should be marked: BX1LE-40/C20/30 4.5kA, 100PCS.