1. Product Overview

Product Scope

Integrated RCBO



NB1L N left
1PN
1~25A
6kA



NB1L N right
1PN
2~40A
6kA/10kA

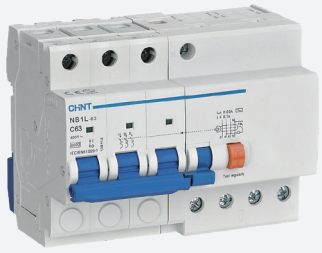


NB1L
2P
6~40A
10kA

Add on type RCBO



NB1L-40
1P+N, 2P, 3P, 3P+N, 4P
1~40A
10kA



NB1L-63
1P+N, 2P, 3P, 3P+N, 4P
50A, 63A
6kA

Slim RCBO



NB1L-20
1P+N
6-20A
6kA



NB3LE Residual Current Circuit Breaker (ELE)

1. General

1.1 Selection

Rated residual operating current

IΔn = 30 mA: additional protection in the case of direct contact.

Tripping class

AC class – Tripping is ensured for sinusoidal, alternating currents, whether they be quickly applied or slowly increase.

Tripping curve

B curve (3-5 In) protection and control of the circuits against overloads and short-circuits; protection for people and big length cables in TN and IT systems.

C curve (5-10 In) protection and control of the circuits against overloads and short-circuits; protection for resistive and inductive loads with low inrush current.

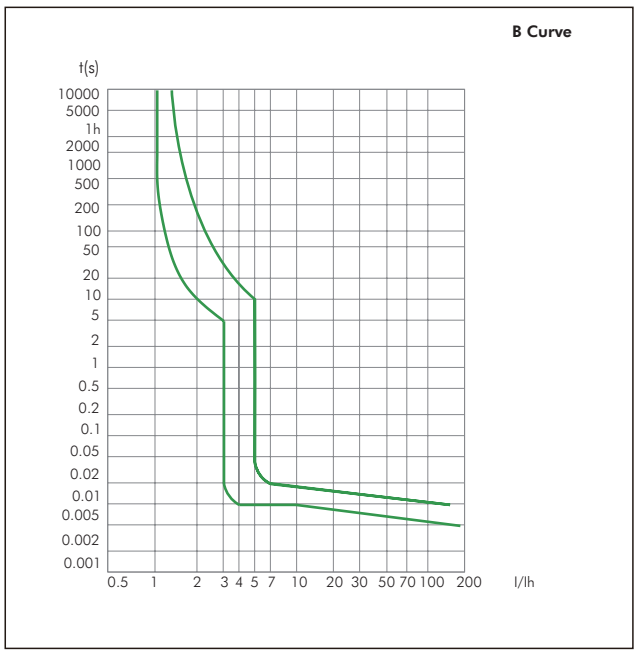
1.2 Approvals and certificates

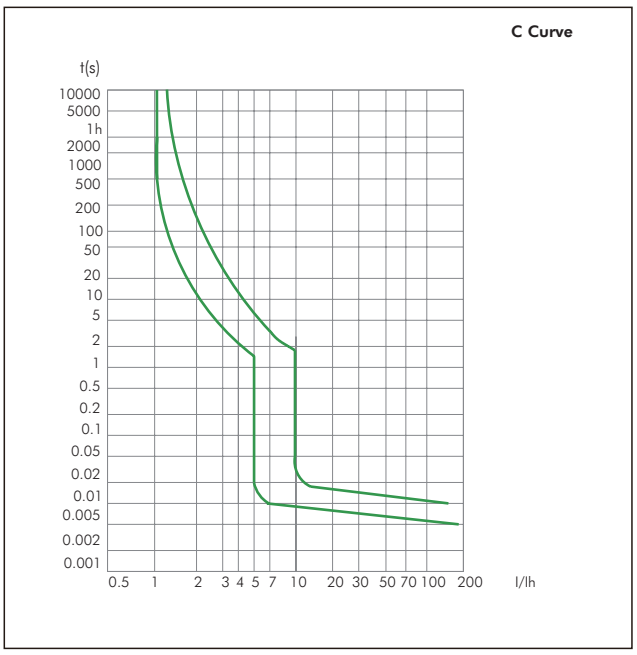
Detailed information, please refer to Certificates Table on the last page.

CE RoHS

2.Technical data

2.1 Curves





2.2

	Standard		IEC/EN 61009-1
Electrical features	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
	Poles		1P+N
	Rated voltage Ue	V	240
	Rated sensitivity I △ n	A	0.03, 0.1
	Rated residual making and breaking capacity I △ m	A	2000
	Rated short-circuit capacity Icn	A	6,000
	Break time under I △ n	s	≤0.1
	Rated frequency	Hz	50/60
	Rated impulse withstand voltage (1.2/50)Uimp	V	4,000
	Dielectric TEST voltage at ind. Freq. for 1min	kV	2
	Insulation voltage Ui		500
	Pollution degree		2
Mechanical features	Electrical life		4,000
	Mechanical life		10,000
	Contact position indicator		Yes
	Protection degree		IP20
	Ambient temperature (with daily average≤35℃)	℃	-5...+40
	Storage temperature	℃	-25...+70
Installation	Terminal connection type		Cable/U-type busbar/Pin-type busbar
	Terminal size top/bottom for cable	mm^2	16
		AWG	18-5
	Terminal size top/bottom for busbar	mm^2	10
		AWG	18-8
	Tightening torque	N·m	2
		In-lbs.	18
	Mounting		On DIN rail EN 60715 (35mm) by means of fast clip device
	Connection		From top

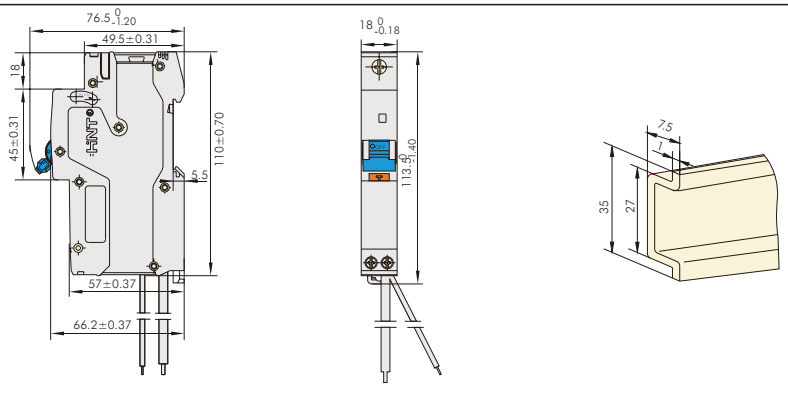
2.3 Temperature derating

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.

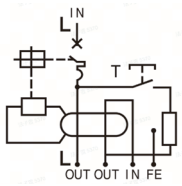
The reference temperature is 30℃ Ambient temperature: -5℃ ~+40℃ .

Temperature	-25℃	-20℃	-10℃	0℃	10℃	20℃	30℃	40℃	50℃	60℃	70℃
Temperature compensation coefficient of rated current	1.27	1.25	1.20	1.15	1.10	1.05	1.00	0.95	0.90	0.85	0.83

3. Overall and mounting dimensions (mm)



NB3LE-32	1PN	B	6	30mA
Frame	Poles	Curve	Current(In)	Rated sensitivity (IΔn)
NB3LE-32	1P+N	B C	6A~32A	30mA

Diagram	Curve	Poles	In(A)	Icu(kA)	Ue(V)	IΔn(mA)	Leakage type	Description	Code
	B	1P+N	6	6	AC240	30	AC	NB3LE-32 1PN B6 30mA	208016
	B	1P+N	10	6	AC240	30	AC	NB3LE-32 1PN B10 30mA	208017
	B	1P+N	16	6	AC240	30	AC	NB3LE-32 1PN B16 30mA	208018
	B	1P+N	20	6	AC240	30	AC	NB3LE-32 1PN B20 30mA	208019
	B	1P+N	25	6	AC240	30	AC	NB3LE-32 1PN B25 30mA	208020
	B	1P+N	32	6	AC240	30	AC	NB3LE-32 1PN B32 30mA	208021
	C	1P+N	6	6	AC240	30	AC	NB3LE-32 1PN C6 30mA	208022
	C	1P+N	10	6	AC240	30	AC	NB3LE-32 1PN C10 30mA	208023
	C	1P+N	16	6	AC240	30	AC	NB3LE-32 1PN C16 30mA	208024
	C	1P+N	20	6	AC240	30	AC	NB3LE-32 1PN C20 30mA	208025
	C	1P+N	25	6	AC240	30	AC	NB3LE-32 1PN C25 30mA	208026
	C	1P+N	32	6	AC240	30	AC	NB3LE-32 1PN C32 30mA	208027