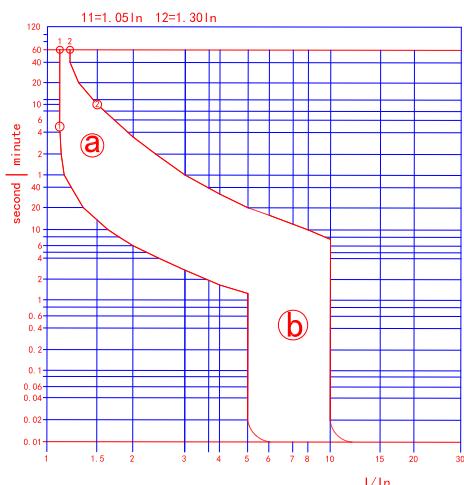


Type 2+3 overspenningsvern spesielt laget for beskyttelse mot overspenninger i lavspenningsanlegg.

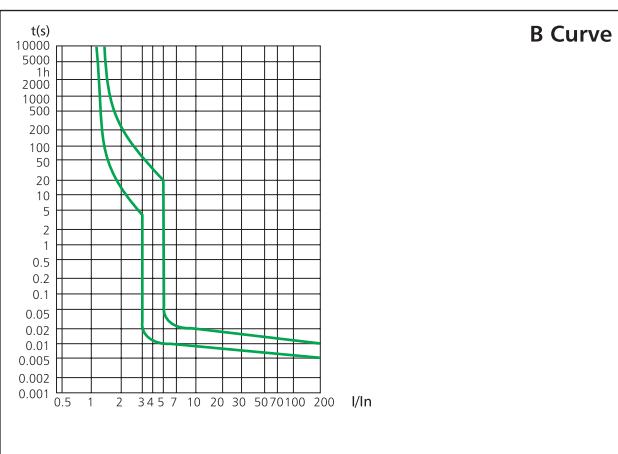
- Type 2+3, maksimal avleiderstøtstrøm 40kA 8/20.
- Pluggbart design, laget for enkel utskifting av patroner.
- VT-beskyttelse (patentert teknologi) i overspenningsvernet.
- Høy motstandsdyktighet mot langvarige overspenninger, spesielt laget for områder med ustabile spenningsnivåer.
- Spesielt tilpasset IT/TT anlegg uten distribuert jord (Kan også brukes i anlegg med distribuert jord)
- Ingen følgestrøm eller lekkasjestrøm.

Artikkelnummer	CV057684
Standard	IEC61643-11:2011; UL1449 4th
Kategori	II+III/C+D
Maksimal kontinuerlig spenning (AC/DC) Uc	385/505
Nominell utladning støtstrøm (8/20) In	20kA
Maksimal avleiderstøtstrøm (8/20) Imax	40kA
Sikkerhetsnivå / Up @In	<2.0kV
Reaksjonstid	≤100 ns
Følgestrøm / lekkasjestrøm	Nei
Største forankoblede sikring	125A gL/gG
Motstandsdyktighet overspenning	700V/120min
Omgivelsestemperatur under drift	- 40°C - + 80°C
Tverrsnitt	Enkjernet 4-35mm ² . Flertrådet/mangetrådet med endehylse 4-25mm ²
Montering	35mm DIN, I henhold til EN 50022/DIN46277-3
Kapslingsmateriale	Termoplast, UL94 V-0. Selvslukkende.
IP-grad	IP20
Installasjonsbredde	3 moduler, DIN 43880
Termisk frakabler (intern loddesikring)	Indikasjon flaggvindu: Grønn – normal. Rød – feil, bytt plugg.
Signalkontakt	Ja
Informasjon signalkontakt	
Type signalkontakt	Potensialfritt kontaktsett NO/NC
Nominell spenning/strøm Un/In	AC: 250V/0.5A DC: 250V/0.1A; 125V/0.2A; 75V/0.5A
Største tverrsnitt signalkontakt	Maks. 1.5mm ² (eller # 16AWG)

**K-curve**

2. Technical data

2.1 Curves



NB310L Residual Current Operated Circuit Breaker with over-current protection (Magnetic)

1. General

1.1 Function

Personnel and fire protection: Cable and line protection against overload and short-circuits.

1.2 Selection

Rated residual operating current

$I_{\Delta n} = 30 \text{ mA}$: additional protection in the case of direct contact.

Tripping class

A class

Tripping is ensured for sinusoidal, alternating residual currents as well as for pulsed DC residual 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.

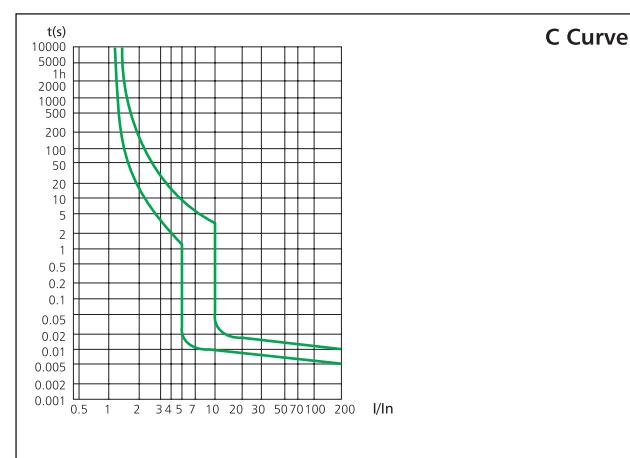
C curve (5-10 In) protection and control of the circuits against overloads and short-circuits; protection for resistive and inductive loads with low inrush current.

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

I₂ value reduced ($I_n = 1.3$)

1.3 Approvals and certificates

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



2.2

	Standard		IEC/EN 61009-1
Electrical features	Type (wave form of the earth leakage sensed)		A
	Thermo-magnetic release characteristic		B, C
	Rated current In	A	6, 10, 13, 16, 20, 25, 32
	Poles		2P
	Rated voltage Ue	V	230/240
	Rated sensitivity IΔn	A	0.03
	Rated residual making and breaking capacity IΔm	A	3000
	Rated short-circuit capacity Icn	A	6,000
	Break time under IΔn	s	≤0.1
	Rated frequency	Hz	50/60
	Rated impulse withstand voltage (1.2/50)Uimp	V	6,000
	Dielectric TEST voltage at ind. Freq. for 1min	kV	2
Mechanical features	Insulation voltage Ui		500
	Pollution degree		2
	Electrical life		2,000
	Mechanical life		2,000
	Contact position indicator		Yes
	Protection degree		IP20
	Ambient temperature (with daily average≤35°C)	°C	-5...+40
	Storage temperature	°C	-25...+70
	Terminal connection type		Cable/U-type busbar/Pin-type busbar
	Terminal size top/bottom for cable	mm ²	25
Installation	Terminal size top/bottom for busbar	AWG	18-3
	Tightening torque	mm ²	10
	Mounting	AWG	18-8
	Connection	N·m	2
		In-lbs.	18
			On DIN rail EN 60715 (35mm) by means of fast clip device
			From top and bottom

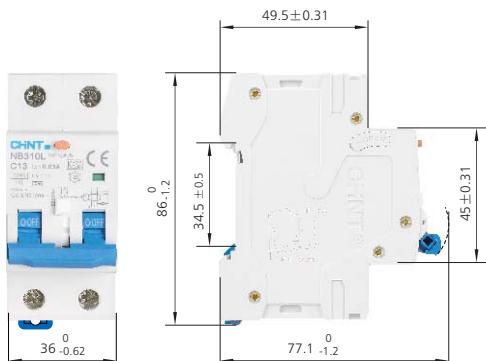
2.3 Temperature derating

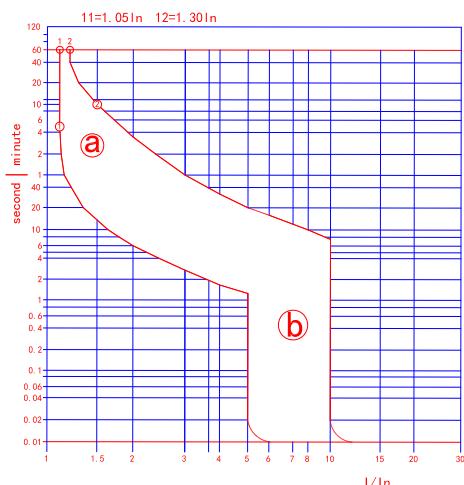
The maximum permissible current in a circuit breaker depends on the ambient temperature where the circuit breaker is placed. Ambient temperature is the temperature inside the enclosure or switchboard in which the circuit breakers are installed.

The reference temperature is 30°C

Temperature	-10°C	0°C	10°C	20°C	30°C	40°C	50°C	60°C
Temperature compensation coefficient of rated current	1.20	1.15	1.10	1.05	1.00	0.95	0.90	0.85

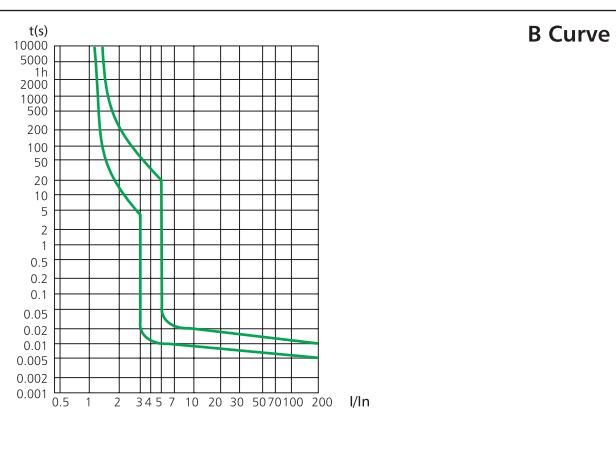
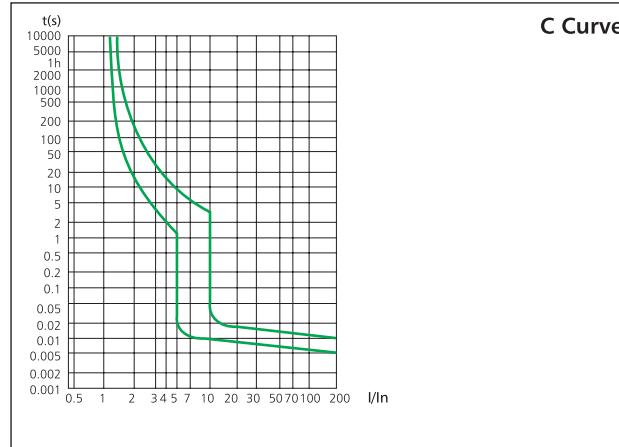
3. Overall and mounting dimensions (mm)



**K-curve**

2. Technical data

2.1 Curves

**B Curve****C Curve**

1.3 Approvals and certificates

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

1. General

1.1 Function

Personnel and fire protection: Cable and line protection against overload and short-circuits.

1.2 Selection

Rated residual operating current

$I_{\Delta n} = 30 \text{ mA}$: additional protection in the case of direct contact.

Tripping class

A class

Tripping is ensured for sinusoidal, alternating residual currents as well as for pulsed DC residual 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.

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

I₂ value reduced ($I_n = 1.3$)

2.2

	Standard		IEC/EN 61009-1
Electrical features	Type (wave form of the earth leakage sensed)		A
	Thermo-magnetic release characteristic		B, C
	Rated current In	A	6, 10, 13, 16, 20, 25, 32
	Poles		2P
	Rated voltage Ue	V	230/240
	Rated sensitivity IΔn	A	0.03
	Rated residual making and breaking capacity IΔm	A	3000
	Rated short-circuit capacity Icn	A	6,000
	Break time under IΔn	s	≤0.1
	Rated frequency	Hz	50/60
	Rated impulse withstand voltage (1.2/50)Uimp	V	6,000
	Dielectric TEST voltage at ind. Freq. for 1min	kV	2
Mechanical features	Insulation voltage Ui		500
	Pollution degree		2
	Electrical life		2,000
	Mechanical life		2,000
	Contact position indicator		Yes
	Protection degree		IP20
	Ambient temperature (with daily average≤35°C)	°C	-5...+40
	Storage temperature	°C	-25...+70
	Terminal connection type		Cable/U-type busbar/Pin-type busbar
	Terminal size top/bottom for cable	mm ²	25
Installation	Terminal size top/bottom for busbar	AWG	18-3
	Tightening torque	mm ²	10
	Mounting	AWG	18-8
	Connection	N·m	2
		In-lbs.	18
			On DIN rail EN 60715 (35mm) by means of fast clip device
			From top and bottom

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°C

Temperature	-10°C	0°C	10°C	20°C	30°C	40°C	50°C	60°C
Temperature compensation coefficient of rated current	1.20	1.15	1.10	1.05	1.00	0.95	0.90	0.85

3. Overall and mounting dimensions (mm)

