

Line out in top (utgående side)

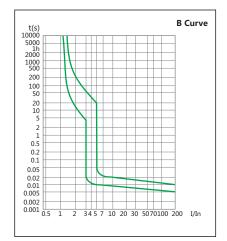


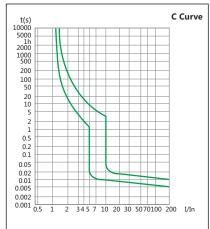
Supply-side (tilførsel i bunn)

# **(€ CB**

### 2. Technical data

#### 2.1 Curves





## NB4LE Residual Current Operated Circuit Breaker (Electronic)

#### 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

 $I\Delta n = 30mA$ , additional protection in the case of direct contact.

#### **RCD Type**

#### Type A

RCD Type A is ensured for sinusoidal, alternating residual currents as well as for pulsed DC residual currents, whether they be quickly or slowly increase.

#### **Tripping curve**

B curve (I1=1.13In; I2=1.45In; I4=3In; I5=5In) 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 (I1=1.13In; I2=1.45In; I4=5In; I5=10In) protection and control of the circuits against overloads and short-circuits; protection for resistive and inductive loads with low inrush current

CK curve (I1=1.05In; I2=1.3In; I4=5In; I5=10In) protection and control of the circuit against overloads and short-circuits; protection for resistive and inductive loads with low inrush current.

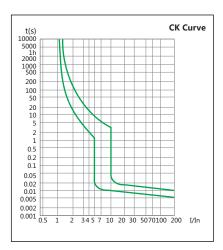
# 1.3 Approvals and certificates CE/CB

#### 1.4 Add-on devices

XF9 auxiliary contacts

S9 shunt release

V9 under voltage release



#### 2.2

	Standard		IEC/EN 61009-1				
	Type (wave form of the earth leakage sensed)		A				
Electrical features	Thermo-magnetic release characteristic		В, С	СК			
	Rated current In	Α	6, 10, 13, 16, 20, 25, 32	10, 13, 15, 20			
	Poles		2P				
	Rated voltage Ue	V	230/240				
	Rated sensitivity I△n	Α	0.03				
	Rated residual making and breaking capacity I△m	A	3,000				
	Rated short-circuit capacity Icn	Α	6,000				
	Break time under I△n	S	≤0.1				
	Rated frequency	Hz	50/60				
	Rated impulse withstand voltage (1.2/50)Uimp	kV	4				
	Dielectric TEST voltage at ind. Freq. for 1min	kV	2				
	Insulation voltage Ui	V	500				
	Pollution degree		2				
Mechanical features	Electrical life		2,000				
	Mechanical life		10,000				
	Contact position indicator		Yes				
	Protection degree		IP20				
	Ambient temperature (with daily average≤35°C)	℃	-25+40				
	Storage temperature	℃	-25+70				
Installation	Terminal connection type		Cable/U-type busbar/Pin-type busbar				
	Terminal size top/bottom for cable	mm²	25				
		AWG	18-3				
	Terminal size top/bottom for busbar	mm²	10				
		AWG	18-8				
	Tightening torque	N·m	2				
		In-Ibs.	18				
	Mounting		On DIN rail EN 60715 (35mm) by means of fast clip device				
	Connection		Bottom electrical feeding				

#### 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℃	0℃	10℃	20°C	30℃	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)



