



## NB3LE Residual Current Operated Circuit Breaker with Over-current Protection (Electronic)

#### 1. General

#### 1.1 Selection

#### Rated residual operating current

 $I\Delta n = 30$  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

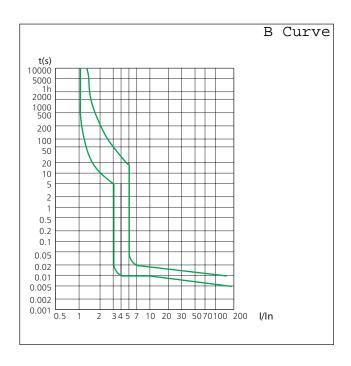
Detailed information, please refer to Certificates Table on the last page.

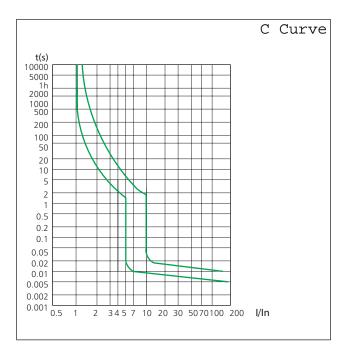
CE

SAA



## Technical Data





# **RCBO**



3.2						
	Standard		IEC/EN 61009-1			
Electrical features	Type (wave form of the earth leakage sensed)		AC			
	Thermo-magnetic release characteristic		В, С			
	Rated current In	Α	6, 10, 16, 20, 25, 32			
	Poles		1P+N			
	Rated voltage Ue	V	240			
	Rated sensitivity I△n	А	0.03			
	Rated residual making and breaking capacity l△m	А	500			
	Rated short-circuit capacity lcn	А	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		2,000			
	Mechanical life		2,000			
	Contact position indicator		Yes			
	Protection degree		IP20			
	Ambient temperature (with daily average≤35°C)	℃	-5+40 (Special application please refer to P58 for temperature compensation correction)			
	Storage temperature	$^{\circ}$	-25+70			
Installation	Terminal connection type		Cable/U-type busbar/Pin-type busbar			
	Terminal size top/bottom for cable	mm²	16			
		AWG	18-5			
	Terminal size top/bottom for busbar	mm²	10			
		AWG	18-8			
	Tightoning torque	N*m	2			
	Tightening torque		18			
	Mounting		On DIN rail EN 60715 (35mm) by means of fast clip device			
	Connection		From top			

## 3.3 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  $^{\circ}$ C Ambient temperature: -5  $^{\circ}$ C  $\sim$  +40  $^{\circ}$ C.

Temperature	-10℃	0℃	10℃	20℃	30℃	<b>40</b> ℃	50℃	60℃
Temperature compensation coefficient of rated current	1.20	1.15	1.10	1.05	1.00	0.95	0.90	0.85

## 4. Overall and mounting dimensions (mm)

