

NB3LEG Residual Current Operated Circuit Breaker with Over-current Protection (Electronic)

1. General

1.1 Selection

Rated residual operating current

 $I\Delta n \leq 30$ 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.

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.

1.2 Approvals and certificates

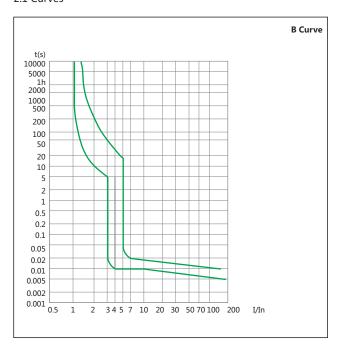
Detailed information, please refer to Certificates Table on the last page.

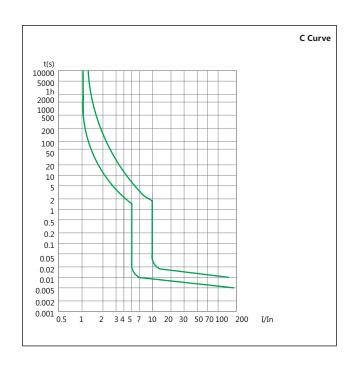




2. Technical data

2.1 Curves





2.2

	Standard		BS EN61009-1		
	Type (wave form of the earth leakage sensed)		AC, A		
Electrical features	Thermo-magnetic release characteristic		B, C		
	Rated current In	Α	6, 10, 13, 16, 20, 25, 32 , 40		
	Poles		1P+N		
	Rated voltage Ue	V	240V AC		
	Rated sensitivity In	Α	0.01 , 0.03		
	Rated residual making and breaking capacity I ^Δ m	A	3000		
	Rated short-circuit capacity Icn	Α	6,000		
	Break time under I^n	S	≤0.1		
	Rated frequency	Hz	50		
	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		
	Storage temperature	℃	-25+70		
Installation	Terminal connection type		Cable/U-type busbar/Pin-type busbar		
	Terminal size top/bottom for cable	mm²	16		
	reminal size top/bottom for cable	AWG	18-5		
	Terminal size top/bottom for busbar	mm²	10		
	reminar size top/ bottom for busbur	AWG	18-8		
	Tightening torque	N·m	2		
	g.tcig torque	In-Ibs.	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° C Ambient temperature: -5° C ~ $+40^{\circ}$ C.

Temperature	-10℃	0℃	10℃	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)

