



NB3LEU Residual Current Operated Circuit Breaker with Over-current Protection (Electronic)

1. General

1.1 Selection

Rated residual operating current

 $I\Delta n = 30 \text{ mA}$:

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.

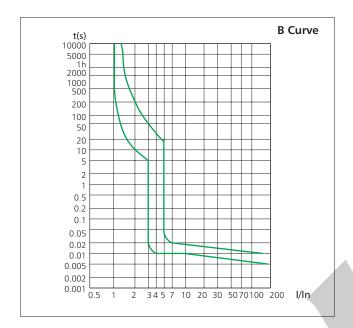
C curve (5-10 In) protection and control of the circuits against overloads and short-circuits; protection for resistive and inductive loads with low inrush current.

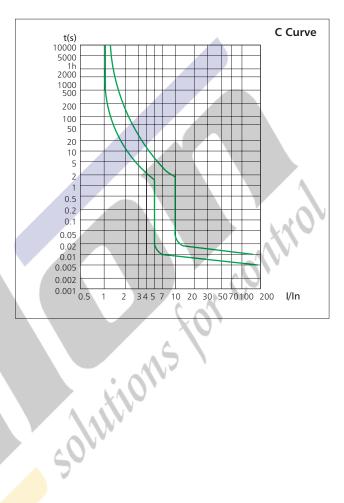
1.2 Approvals and certificates

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



3. Technical data









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	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, 40					
	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	10,000					
	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	$^{\circ}$	-5+40 (Special application please refer to P55					
	(with daily average≤35°C)	Ů	for temperature compensation correction)					
	Storage temperature	$^{\circ}$	-25+70					
	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					
Installation		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 bottom					

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°C

Temperature	-10℃	0℃	10℃	20℃	30℃	40 ℃	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)

