



NBH8LE **Residual Current Operated Circuit Breaker** with over-current protection (Electronic)

1. General

1.1 Function

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

1.2 Selection

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

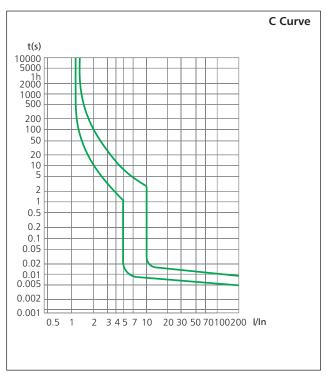
C curve (5-10 In) protection and control of the circuits against overloads and short-circuits; protection for resistive and inductive loads with low inrush current. AC class - Tripping is ensured for sinusoidal, alternating currents, whether they be quickly applied or slowly increase.

1.3 Approvals and certificates

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

2. Technical data

2.1 Curves











RCBO



2.2

	Standard		IEC/EN 61009-1				
Electrical features	Type (wave form of the earth leakage sensed)		AC				
	Thermo-magnetic release characteristic		C				
	Rated current In	А	1, 2, 3, 4, 6, 10, 16, 20, 25, 32, 40				
	Poles		1P+N				
	Rated voltage Ue	V	230				
	Rated sensitivity I△n	А	0.03				
	Rated residual making and breaking capacity l△m	А	500				
	Rated short-circuit capacity lcn	А	4,500				
	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	V	300				
	Pollution degree		2				
Mechanical features	Electrical life		4,000				
	Mechanical life		20,000				
	Contact position indicator		Yes				
	Protection degree		IP20				
	Ambient temperature (with daily average≤35°C)	℃	-5+40				
	Storage temperature	$^{\circ}$	-25+70				
Installation	Terminal connection type		Cable/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				
	Tiebtesias teenus	N·m	2				
	Tightening torque		11				
	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

Temperature	-10℃	0℃	10℃	20℃	30℃	40℃	50℃	60℃
Temperature compensation	1.20	1.15	1.10	1.05	1.00	0.95	0.90	0.85
coefficient								

3. Overall and mounting dimensions (mm)



