

CE					RCC
EU	Germany	Sweden	Ukraine	Russia	South Africa

## NBH8 Miniature Circuit Breaker

### 1. General

#### 1.1 Application:

For protecting cables and equipment against overload and short circuit.

#### 1.2 General rules for choosing MCB.

##### a. Technical data of the network at the point considered:

The earthing systems (TNS, TNC),

Short-circuit current at the circuit-breaker installation point, which must always be less than the breaking capacity of this device,

Network normal voltage.

##### b. There are 2 curve characteristics for NBH8 magnetic operation:

B curve (3-5  $I_n$ ) 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  $I_n$ ) protection and control of the circuits against overloads and short-circuits; protection for resistive and inductive loads with low inrush current.

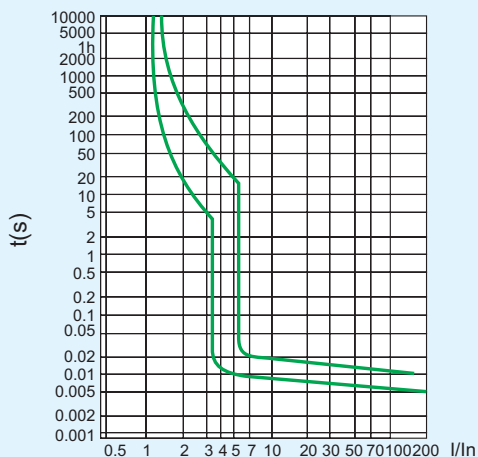
#### 1.3 Detailed certificates information, please refer to Certificates Table on P153.



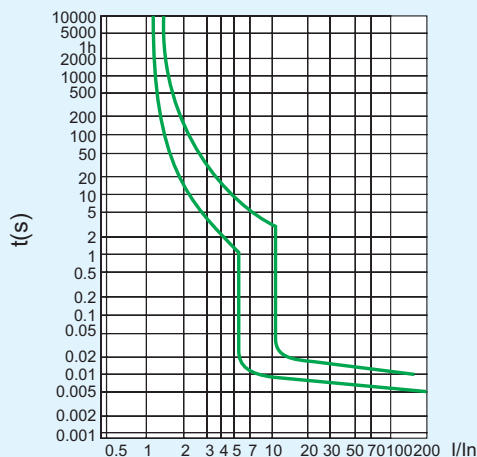
### 3. Technical Information

#### 3.1 Curves

B Curve



C Curve



#### 3.2

	Standard		IEC/EN 60898-1
Electrical features	Rated current $I_n$	A	1, 2, 3, 4, 6, 10, 13, 16, 20, 25, 32, 40
	Poles		1P+N
	Rated voltage $U_e$	V	230
	Insulation voltage $U_i$	V	300
	Rated frequency	Hz	50/60
	Rated breaking capacity	A	4500/6000
	Rated impulse withstand voltage(1.2/50) $U_{imp}$	V	4000
	Dielectric test voltage at ind. Freq. for 1 min	kV	2
	Pollution degree		2
Mechanical features	Electrical life		4, 000
	Mechanical life		10, 000
	Contact position indicator		Yes
	Protection degree		IP20
	Reference temperature for setting of thermal element	°C	30
	Ambient temperature (with daily average $\leq 35^\circ\text{C}$ )	°C	-5...+40(Special application please refer to P30 for temperature compensation correction)
Storage temperature	°C	-25...+70	
Installation	Terminal connection type		Cable/Pin-type busbar
	Terminal size top/bottom for cable	mm <sup>2</sup>	16
		AWG	18-5
	Terminal size top/bottom for busbar	mm <sup>2</sup>	16
		AWG	18-5
Tightening torque	N*m	2	
	In-lbs.	18	

	Standard	IEC/EN 60898-1
Installation	Mounting	On DIN rail EN 60715 (35mm) by means of fast clip device
	Connection	From top and bottom
Combination with accessories	Auxiliary contact	Yes
	Shunt release	Yes
	Under voltage release	Yes
	Alarm contact	Yes

3.3 Temperature derating

Please refer to table below for temperature compensation correction

Temperature	-10°C	0°C	10°C	20°C	30°C	40°C	50°C	55°C	60°C
Temperature compensation coefficient	1.20	1.15	1.10	1.05	1.00	0.95	0.90	0.875	0.85

4. Overall and Mounting Dimensions (mm)

