

NBH8 Miniature Circuit Breaker

1. General

1.1 Function

protection of circuits against short-circuit currents, protection of circuits against overload currents, switch, isolation.

1.2 Selection

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.

Tripping curves:

B curve (3-5In)

protection for people and big length cables in TN and IT systems.

C curve (5-10In)

protection for resistive and inductive loads with low inrush current.

1.3 Approvals and certificates

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



2. Technical data

2.1 Curves





2.2

	Standard		IEC/EN 60898-1			
Electrical features	Rated current In	A	1, 2, 3, 4, 6, 10, 16, 20, 25, 32, 40			
	Poles		1P+N			
	Rated voltage Ue	V	230/240			
	Insulation voltage Ui	V	500			
	Rated frequency	Hz	50/60			
	Rated breaking capacity	А	4500/6000			
	Rated impulse withstand voltage(1.2/50) Uimp	V	4000			
	Dielectric test voltage at ind. Freq. for 1 min	kV	2			
	Pollution degree		2			
	Energy limiting class		3			
Mechanical features	Electrical life		8, 000			
	Mechanical life		20, 000			
	Contact position indicator		Yes			
	Protection degree		IP20			
	Reference temperature for setting of thermal element	°C	30			
	Ambient temperature (with daily average≤35°C)	°C	-5+40			
	Storage temperation	°C	-25+70			
	Terminal connection type		Cable/Pin-type busbar			
	Terminal size top/bottom for cable	mm²	16			
	Terminal size top/bottom for cable	AWG	18-5			
	Terminal size ton /bettern for busher	mm²	10			
Installation	Terminal size top/bottom for busbar	AWG	18-8			
	Tightening torque	N∙m	2			
		In-Ibs.	18			
	Mounting		On DIN rail EN 60715 (35mm) by means of fast clip device			
	Connection		From top and bottom			
	Auxiliary contact		Yes			
Combination with	Shunt release		Yes			
accessories	Under voltage release		Yes			
	Alarm contant		Yes			

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

3. Overall and mounting dimensions (mm)

