

# NB8 -40J

Miniature Circuit Breaker



# NB8 -40J

## 1. GENERAL

### 1.1 Function

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

NB8 -40J circuit-breakers are used in domestic installation,  
as well as in commercial and industry electrical  
distribution systems.

### 1.2 Selection

Technical data of the network at the point considered:  
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.

#### **D curve(10-16In)**

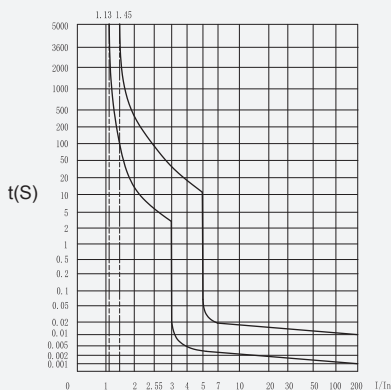
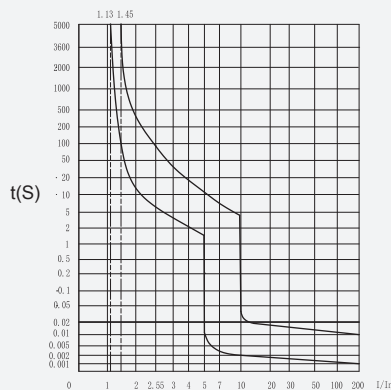
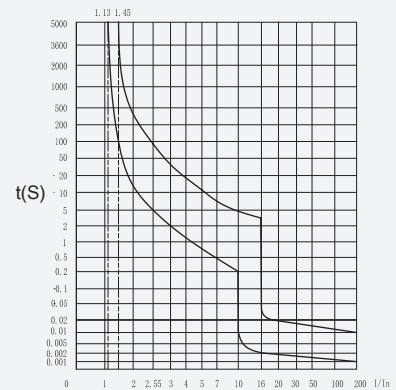
protection for circuits which supply loads with high inrush  
current at the circuit closing  
(LV/LV transformers, breakdown lamps).

### 1.3 Certificates

CE

## 2. TECHNICAL DATA

Standard		IEC 60898-1
Rated current $I_n$	A	1, 2, 3, 4, 6, 10, 16, 20, 25, 32, 40
Rated voltage $U_e$	V	230 / 400
Rated frequency	Hz	50
Poles		1P, 2P, 3P, 4P
Thermo-magnetic release characteristic		B(3-5 $I_n$ ), C(5-10 $I_n$ ), D(10-16 $I_n$ ),
Mechanical life		15,000
Electrical life		10,000
Rated breaking capacity	A	4500 (D), 6000 (B,C)
Insulation voltage $U_i$	V	500
Rated impulse withstand voltage (1.2/50) $U_{imp}$	KV	4
Installation	Terminal connection type	Cable/ Pin-type busbar
	Terminal size top / bottom for busbar	mm <sup>2</sup> 25
		AWG 18-4
	Terminal size top / bottom for cable	mm <sup>2</sup> 10
		AWG 18-8
	Tightening torque	N·m 2.0
		In-lbs. 22
	Mounting	On DIN rail EN 60715 (35mm) by means of fast clip device
	Connection	From top and bottom
Reference temperature for setting of thermal element		°C 30
Ambient temperature (with daily average $\leq 35^\circ\text{C}$ )		°C -35...+70
Storage temperature		°C -35...+70
Protection degree		IP20
Pollution degree		2
Combination with accessories		S9, V9, XF9, XF9J, OVT-1, OUVT-1

B curve (3~5 $I_n$ )C curve (5~10 $I_n$ )D curve (10~16 $I_n$ )

3. OVERALL AND MOUNTING DIMENSIONS (MM)

