

# NB8 -63M

Miniature Circuit Breaker  
(Magnetic type)



# NB8 -63M

## 1. GENERAL

### 1.1 Function

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

NB8 -63M 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:

#### **C curve (6.4In-9.6In)**

protection for resistive and inductive loads with low inrush current.

#### **D curve(9.6-14.4In)**

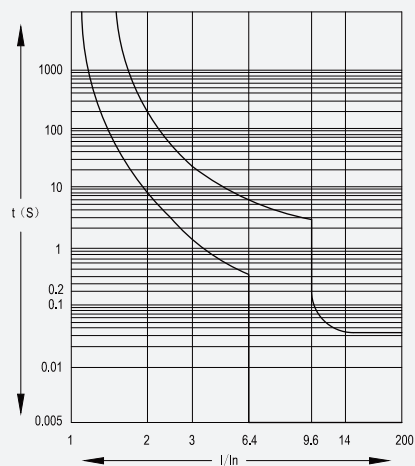
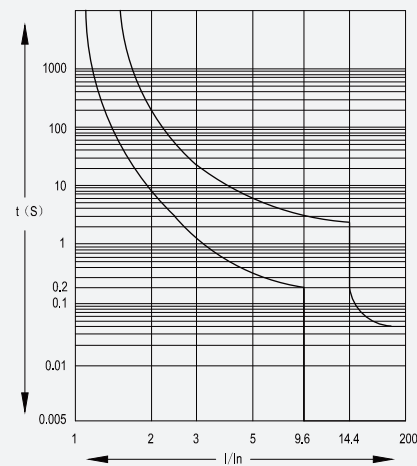
protection for circuits which supply loads with high inrush current at the circuit closing (LV/LV transformers, breakdown lamps).

### 1.3 Certificates

CE

## 2. TECHNICAL DATA

Standard		IEC 60947-2
Rated current $I_n$	A	1, 2, 3, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63
Rated voltage $U_e$	V	230/400
Rated frequency	Hz	50
Poles		1P, 2P, 3P, 4P
Thermo-magnetic release characteristic		C(6.4-9.6 $I_n$ ), D(9.6-14.4 $I_n$ )
Mechanical life		20,000
Electrical life		10,000
Rated breaking capacity	A	10,000
Insulation voltage $U_i$	V	500
Rated impulse withstand voltage (1.2/50) $U_{imp}$	KV	6
Installation	Terminal connection type	Cable/ U-type/Pin-type busbar
	Terminal size top / bottom for busbar	mm <sup>2</sup>
		25
	Terminal size top / bottom for cable	AWG
		18-4
	Tightening torque	mm <sup>2</sup>
		10
		AWG
		18-8
		N·m
		2.0
		lbf·ft
		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		3
Combination with accessories		S9, V9, XF9, XF9J, OVT-1, OUVT-1

C curve (6.4 $I_n$ ~9.6 $I_n$ )D curve (9.6 $I_n$ ~14.4 $I_n$ )

3. OVERALL AND MOUNTING DIMENSIONS (MM)

