

NB1-63H Miniature Circuit Breaker

1. General

1.1 Function

protection of circuits against short-circuit currents, protection of circuits against overload currents, switch, isolation. NB1-63H 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)

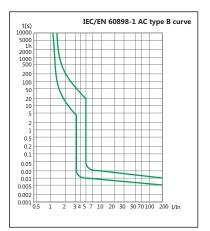
protection for resistive and inductive loads with low inrush current.

D curve(10-14In)

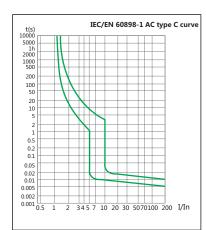
protection for circuits which supply loads with high inrush current at the circuit closing (LV/LV transformers, breakdown lamps).

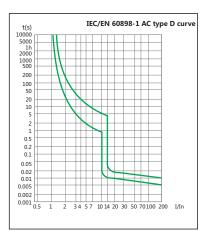
2. Technical data

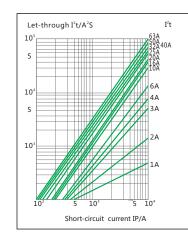
2.1 curves











2.2

	Standard		IEC/EN 60898-1		
Electrical features	Rated current In	А	1, 2, 3, 4, 6, 10, 16,20, 25, 32, 40, 50, 63		
	Poles		1P, 1P+N, 2P, 3P, 3P+N, 4P		
	Rated voltage Ue	V	230/400~240/415		
	Insulation voltage Ui	V	500		
	Rated frequency		50/60Hz		
	Rated breaking capacity	А	10000		
	Energy limiting class		3		
	Rated impulse withstand voltage(1.2/50) Uimp	V	6000		
	Dielectric test voltage at ind. Freq. for 1 min	kV	2		
	Pollution degree		2		
	Power loss per pole		Rated current (A)	Max power loss per pole (W)	
			1, 2, 3, 4, 5, 6, 10	2	
			13, 16, 20, 25, 32	3.5	
			40, 50, 63	5	
	Thermo-magnetic release characteristic		B, C, D		
Mechanical features	Electrical life		4, 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	-35+70(Special application please refer to P10 for temperature compensation correction)		
	Storage temperation	°C	-35+70		
Installation	Terminal connection type		Cable/U-type busbar/Pin-type busbar		
	Terminal size top/bottom for cable	mm²	25		
		AWG	18-4		
	Terminal size top/bottom for busbar	mm²	10		
		AWG	18-8		
	Tightening torque	Nm	2.0		
		In-Ibs.	22		
	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 contant		Yes		

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