NB1-63H/2
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/2 circuit-breakers are used in domestic installation, as well as in commercial and industry electrical distribution systems.

2. Technical data

2.1 Data sheet

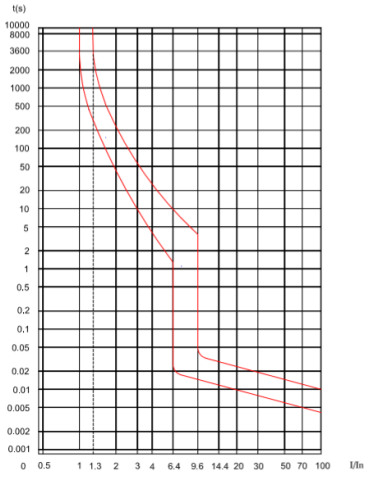
	Standard		IEC/EN 60947	
Electrical features	Rated current In	A	1, 2, 3, 4, 6, 10, 16,20, 25, 32, 40, 50, 63	
	Poles		1P, 1P+N, 2P, 3P, 3P+N, 4P	
	Rated voltage Ue	V	230/400~240/415	
	Insulation voltage Ui	V	500	
	Rated frequency		50/60Hz	
	Rated breaking capacity	A	10000	
	Energy limiting class		3	
	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		10,000	
	Mechanical life		20, 000	
	Contact position indicator		Yes	
	Protection degree		IP20	
	Reference temperature for setting of thermal element	℃	30	
	Ambient temperature (with daily average≤35℃)	℃	0... +55(Special application please refer to P14 for temperature compensation correction)	
	Storage temperation	℃	-25... +70	
Installation	Terminal connection type		Cable/U-type busbar/Pin-type busbar	
	Terminal size top/bottom for cable	mm^2	25	
		AWG	18-4	
	Terminal size top/bottom for busbar	mm^2	10	
		AWG	18-8	
	Tightening torque	N·m	2.5	
		In-lbs.	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	

DC parameters

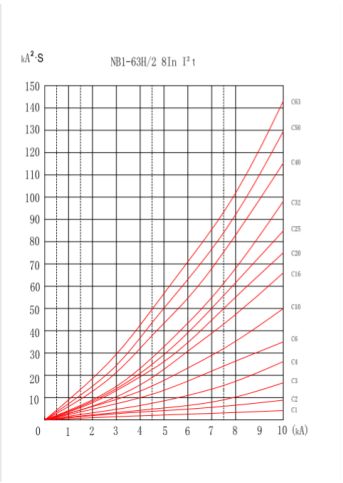
Number of poles	1P			2P		
Rated operational voltage Ue (V)	60VDC	80VDC	110VDC	80VDC	125VDC	220VDC
Rated current In (A)	6, 10, 16, 20, 25, 32, 40, 50, 63 A					
Rated ultimate short circuit breaking capacity Icu (kA)	20	10	10	20	20	10
Rated service short circuit breaking capacity Ics (kA)	15	7.5	7.5	15	15	7.5

2.2 Curves

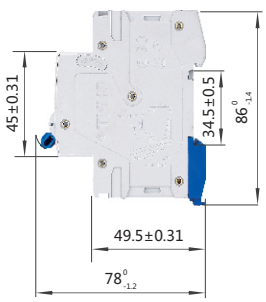
IEC/EN 60947-2 AC type 8-12 In



Let-through I²t/A²S



3. Overall and mounting dimensions (mm)



1P

1P+N, 2P

3P

3P+N, 4P