RCBO





NBH8LE Residual Current Operated Circuit Breaker with over-current protection (Electronic)

1. General

1.1 Function

Personnel and fire protection Cable and line protection against overload and short-circuits.

1.2 Selection

or slowly increase.

 $I\Delta n=30$ mA: additional protection in the case of direct contact. C curve (5-10 ln) protection and control of the circuits against overloads and short-circuits; protection for resistive and inductive loads with low inrush current. AC class – Tripping is ensured for sinusoidal, alternating currents, whether they be quickly applied

1.3 Approvals and certificates

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









SAA



2. Ordering information

2.1 Technical parameters

Curve C

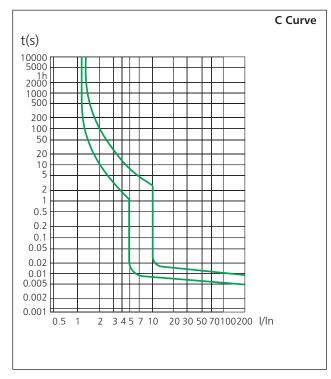
★ NBH8LE, 1P+N



In	l∆n	CTN	Order Code			
(A)	(mA)	CIN	Standard	RoHS		
1	30	90	143111	970962		
2	30	90	143112	970963		
3	30	90	143113	970964		
4	30	90	143114	970965		
6	30	90	143115	970966		
10	30	90	143116	970967		
16	30	90	143117	970968		
20	30	90	143118	970969		
25	30	90	143119	970970		
32	30	90	143120	970971		
40	30	90	143121	970972		

3. Technical data

3.1 Curves



RCBO

3.2

	Standard		IEC/EN 61009-1			
	Type (wave form of the earth leakage sensed)		AC			
	Thermo-magnetic release characteristic		C			
	Rated current In		1, 2, 3, 4, 6, 10, 16, 20, 25, 32, 40			
	Poles		1P+N			
	Rated voltage Ue		230			
	Rated sensitivity I△n		0.03			
Electrical	Rated residual making and breaking capacity l△m		500			
features	Rated short-circuit capacity lcn		4,500			
	Break time under I△n		≤0.1			
	Rated frequency		50/60			
	Rated impulse withstand voltage (1.2/50)Uimp		4,000			
	Dielectric TEST voltage at ind. Freq. for 1min		2			
	Insulation voltage Ui		300			
	Pollution degree		2			
	Electrical life		4,000			
	Mechanical life		20,000			
Mar Investori	Contact position indicator		Yes			
Mechanical features	Protection degree		IP20			
reatures	Ambient temperature (with daily average≤35℃)		-5+40 (Special application please refer to P64 for temperature compensation correction)			
	Storage temperature		-25+70			
	Terminal connection type		Cable/Pin-type busbar			
	Terminal size top/bottom for cable		16			
			18-5			
	Terminal size top/bottom for busbar		10			
Inctallation			18-8			
Installation	Tightening torque		2			
			11			
	Mounting		On DIN rail EN 60715 (35mm) by means of fast clip device			
	Connection		From top			

3.3 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℃	0℃	10℃	20℃	30℃	40℃	50℃	60℃
Temperature compensation	1.20	1.15	1.10	1.05	1.00	0.95	0.90	0.85
coefficient								

4. Overall and mounting dimensions (mm)



