






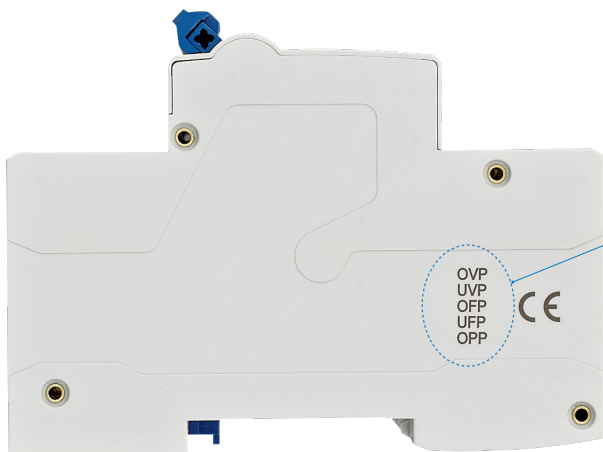


1. Product Overview

Product Scope

<p>Smart MCB</p>	 <p>NB2-40ZT The RS485 communication address can be configured automatically via SMG</p>	 <p>NB2-80ZT The RS485 communication address can be configured automatically via SMG</p>	
<p>Smart RCBO</p>	 <p>NB2LE-40ZT The RS485 communication address can only be configured manually</p>	 <p>NB2LE-40ZT Auto The RS485 communication address can be configured automatically via SMG</p>	 <p>NB2LE-80ZT The RS485 communication address can be configured automatically via SMG</p>
<p>Gateway</p>	 <p>SMG-WL1SR</p>	<p>Power Module</p>  <p>PSU-3</p>	

Protection Mark



- OVP: Over-voltage Protection
- UVP: Under-voltage Protection
- OFF: Over-frequency Protection
- UFP: Under-frequency Protection
- OPP: Open-phase Protection

Values and Highlights



Safe

Feature: With overload, short circuit, over/under voltage, over/under frequency, phase open, leakage and other protection functions

Advantage: Multiple protection

Benefit: Diagnose different faults to ensure safety

Feature: Automatic fault alarm and early warning

Advantage: Maintenance personnel can deal with line faults faster

Benefit: Solve line faults in time and reduce safety hazards

Feature: With the automatic leakage self-check function

Advantage: Ensure that leakage protection is effective

Benefit: Avoid safety hazards caused by leakage failure



Efficient

Feature: Built-in electric operation mechanism, can do remote controlling

Advantage: Remote on-off function, reduce on-site manual operation

Benefit: Ideal for remote and scattered scenarios, saving labor and time

Feature: Real-time monitoring can be performed on smart platform, and statistical results can be displayed in charts

Advantage: Visualize the system status and energy consumption analysis results

Benefit: Provide users with visual data and more efficient system management

Feature: Electrical parameter measurement and energy metering functions, accuracy up to 0.5 degree

Advantage: Monitoring circuit status and energy consumption accurately

Benefit: Can replace electric meters for energy management



Convenient

Feature: The width of 1P NB2 is only 18mm

Advantage: Compact size, integrated intelligent functions

Benefit: Can be used to replace traditional MCB, ideal for renovation projects

Feature: NB2 communicates via RS485, WL1SR gateway communicates via RS485/WIFI/4G

Advantage: Different communication modes and easy networking

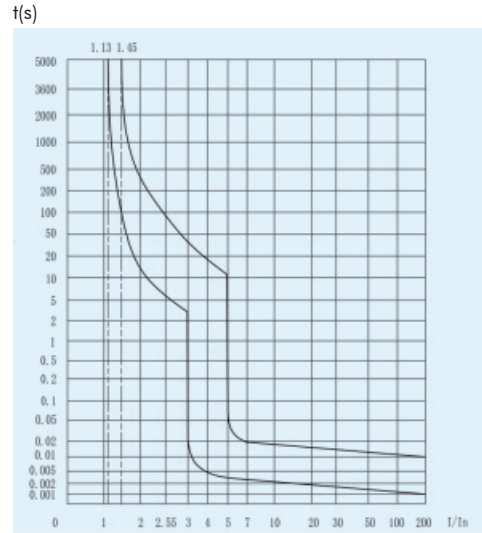
Benefit: Can be widely used in various networking scenarios





2. Technical data

2.1 curve



B curve

NB2LE-40ZT Smart Residual Current Operated Circuit Breaker with Over-current Protection (Electronic)

1. General

1.1 function

This product is mainly suitable for AC 50Hz, rated voltage 230V, rated current to 40A line, overload, short circuit, overvoltage, undervoltage protection and leakage protection, can also be used as infrequent line on and off under normal circumstances.

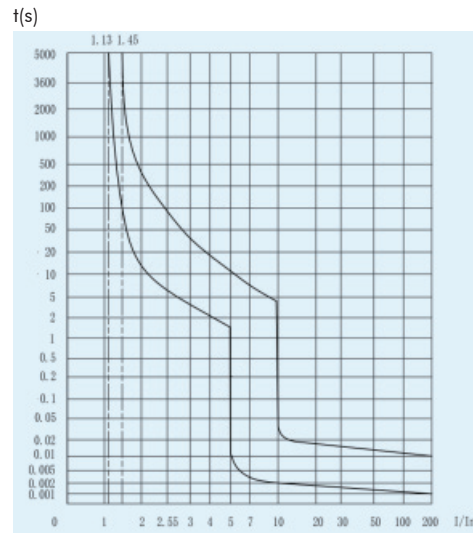
The product also features remote control, electrical parameter (voltage, current, power) measurement, and networking with external devices via RS485 communication interface or Bluetooth

Main functions: overload protection, short circuit protection, overvoltage protection, undervoltage protection, leakage protection, electrical parameter measurement, remote opening and closing.

1.2 approvals and certificate

Standard: IEC/EN 61009-1

Certification: CE, RoHS, REACH

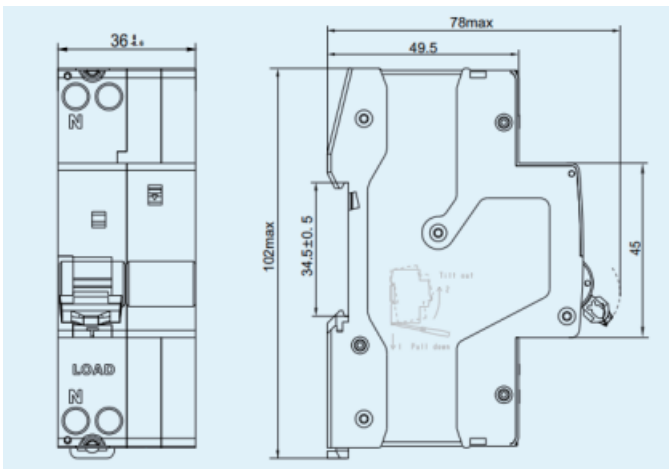


C curve

2.2 Technical parameter

Product		NB2LE-40ZT
Rated current(A)		6,10,16,20,25,32,40
Rated sensitivity I Δ n(A)		0.03
Type (wave form of the earth leakage sensed)		AC, A
Rated voltage		AC230
Rated frequency (Hz)		50
Poles		1P+N
Thermo-magnetic release characteristic		B, C
Mechanical life		10,000
Electrical life		4,000
Rated breaking capacity (KA)		6
Rated insulation voltage (V)		500
Rated impulse withstand voltage (kV)		4
Dielectric test voltage (kV)		2
Installation	Terminal connection type	Cable/Pin type busbar
	Minimum cross-sectional area of the wiring(mm ²)	1
	Maximum cross-sectional area of the wiring (mm ²)	16
	Tightening torque(N·m)	2
	Connection	From top
	Mounting	Type TH35-7.5 Standard DIN rails
Reference temperature(°C)		30
Working ambient temperature (°C)		-25-70
Storage temperature (°C)		-40-70
Applicable altitude (m)		<= 1500
Overvoltage and undervoltage protection (parameters can be set, and the factory default values are in the table)		overvoltage action threshold range 280V±5V
		overvoltage recovery threshold range 250±5V
		overvoltage minimum no-drive time 2s
		undervoltage action threshold range 165V±5V
		undervoltage recovery threshold range 190V±5V
		undervoltage minimum non-driving time 3s
Communication function		Communication protocols: Modbus-RTU RS485:A\B\GND
Electrical parameter measurement function	Current	±1.0%
	Voltage	±1.0%
	Power	±2.0%
Pollution degree		2
Protection degree		IP20
Assembled accessories		None

3. Overall and mounting dimensions (mm)



NB2LE-40ZT	1P+N	C	16	30mA	AC	Auto
↓	↓	↓	↓	↓	↓	↓
Frame	Poles	Curve	Current(In)	Rated sensitivity (IΔn)	Leakage curve	Notes mark
NB2LE-40ZT	1P+N	C	6A~40A	30mA	A AC	Auto: Supports automatic networking through SMG Blank: The RS485 communication address can only be configured manually

Diagram	Curve	Poles	In(A)	Icu(kA)	Ue(V)	IΔn(mA)	Leakage curve	Description	Code
	C	1P+N	6	6	AC230	30	AC	NB2LE-40ZT 1P+N C6 30mA AC Auto	533735
	C	1P+N	10	6	AC230	30	AC	NB2LE-40ZT 1P+N C10 30mA AC Auto	533736
	C	1P+N	16	6	AC230	30	AC	NB2LE-40ZT 1P+N C16 30mA AC Auto	533737
	C	1P+N	20	6	AC230	30	AC	NB2LE-40ZT 1P+N C20 30mA AC Auto	533738
	C	1P+N	25	6	AC230	30	AC	NB2LE-40ZT 1P+N C25 30mA AC Auto	533739
	C	1P+N	32	6	AC230	30	AC	NB2LE-40ZT 1P+N C32 30mA AC Auto	533740
	C	1P+N	40	6	AC230	30	AC	NB2LE-40ZT 1P+N C40 30mA AC Auto	533741
	C	1P+N	6	6	AC230	30	A	NB2LE-40ZT 1P+N C6 30mA A Auto	533742
	C	1P+N	10	6	AC230	30	A	NB2LE-40ZT 1P+N C10 30mA A Auto	533743
	C	1P+N	16	6	AC230	30	A	NB2LE-40ZT 1P+N C16 30mA A Auto	533744
	C	1P+N	20	6	AC230	30	A	NB2LE-40ZT 1P+N C20 30mA A Auto	533745
	C	1P+N	25	6	AC230	30	A	NB2LE-40ZT 1P+N C25 30mA A Auto	533746
	C	1P+N	32	6	AC230	30	A	NB2LE-40ZT 1P+N C32 30mA A Auto	533747
	C	1P+N	40	6	AC230	30	A	NB2LE-40ZT 1P+N C40 30mA A Auto	533748
	C	1P+N	6	6	AC230	30	AC	NB2LE-40ZT 1P+N C6 30mA AC	448135
	C	1P+N	10	6	AC230	30	AC	NB2LE-40ZT 1P+N C10 30mA AC	448129
	C	1P+N	16	6	AC230	30	AC	NB2LE-40ZT 1P+N C16 30mA AC	448130
	C	1P+N	20	6	AC230	30	AC	NB2LE-40ZT 1P+N C20 30mA AC	448131
	C	1P+N	25	6	AC230	30	AC	NB2LE-40ZT 1P+N C25 30mA AC	448132
	C	1P+N	32	6	AC230	30	AC	NB2LE-40ZT 1P+N C32 30mA AC	448133
	C	1P+N	40	6	AC230	30	AC	NB2LE-40ZT 1P+N C40 30mA AC	448134