



## NB2-40ZT Smart Miniature Circuit Breaker

### 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, 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, electrical parameter measurement, remote opening and closing.

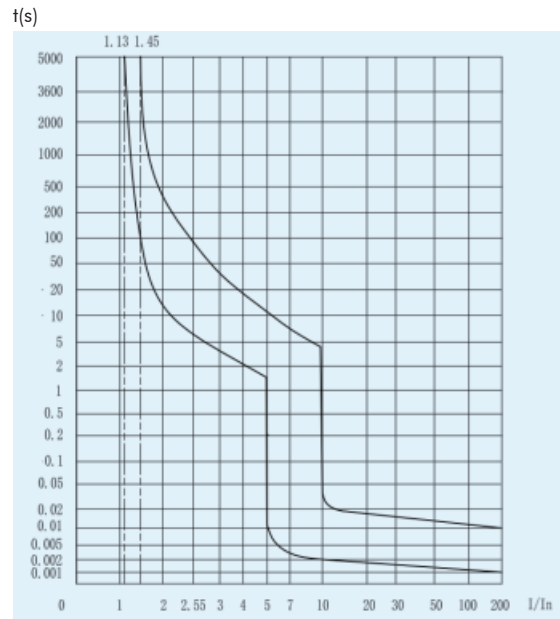
#### 1.2 approvals and certificate

Standard: IEC/EN 60898-1

Certification: CE

### 2. Technical data

#### 2.1 curve



C curve

## 2.2 Technical parameter

Product		NB2-40ZT	
Rated current(A)		6,10,16,20,25,32,40	
Rated voltage (V)		AC230	
Rated frequency (Hz)		50	
Poles		1P	
Thermo-magnetic release characteristic		Type C	
Mechanical life		10,000	
Electrical life		6,000	
Rated breaking capacity (kA)		6	
Rated insulation voltage (V)		690	
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 <sup>2</sup> )	1	
	Maximum cross-sectional area of the wiring (mm <sup>2</sup> )	16	
	Tightening torque(N·m)	2.5	
	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)		<=2000	
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 250V±5V	
		overvoltage minimum no-drive time 3s	
		undervoltage action threshold range 165V±5V	
		undervoltage recovery threshold range 190V±5V	
		undervoltage minimum non-driving time 3s	
Communication function		overvoltage recovery time>=10s	
		Communication protocols: Modbus-RTU RS485; A,B/Bluetooth BLE5.0, Compatible BLE4.0\BLE4.1\BLE4.2	
Electrical parameter measurement function	Current	1A<=I<0.1In	±1.0%
		0.1In<=I<=1.0 In	±0.5%
	Voltage	1A<=I<0.1In	±0.5%
		0.1In<=I<=1.0In	±1.0%
Power	1A<=I<0.1In	0.9Ue<=U<=1.1Ue	±1.5%
	0.1In<=I<=1.0In	0.9Ue<=U<=1.1Ue	±1.0%
Flame retardant grade		V-0	
Pollution degree		2	
Protection degree		IP20	
Assembled accessories		None	

## 3. Overall and mounting dimensions (mm)

