



NB2LE-80ZT Residual current action circuit breaker with Over-current Protection (Electronic)

1. General

1.1 function

This product is mainly suitable for AC 50Hz, rated voltage 230/400V, rated current to 80A 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.

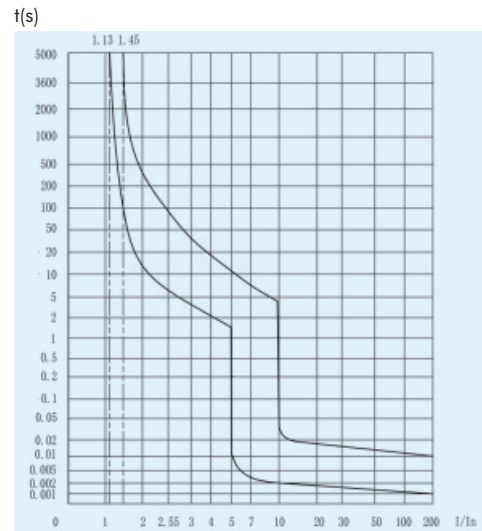
1.2 approvals and certificate

Standard: IEC/EN 61009-1

Certification: CE

2. Technical data

2.1 curve



C curve

2.2 Technical parameter

| | | | |
|---|---|---|-------|
| Product | NB2LE-80ZT | | |
| Rated current(A) | 6,10,16,20,25,32,40,50,63,80 | | |
| Rated sensitivity I _{Δn} (A) | 0.01, 0.03,0.1 | | |
| Type (wave form of the earth leakage sensed) | A, AC | | |
| Leakage self-test residual current self-test function | yes | | |
| Rated voltage(V) | AC230(1P+N), AC400(3P+N) | | |
| Rated frequency (Hz) | 50 | | |
| Poles | 1P+N,3P+N | | |
| Thermo-magnetic release characteristic | C | | |
| Mechanical life | 10,000 | | |
| Electrical life | 6,000 | | |
| Rated breaking capacity (kA) | 6 | | |
| Rated insulation voltage (V) | 690 | | |
| Rated impulse withstand voltage (kV) | 6 | | |
| 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) | 25 | |
| | Tightening torque(N·m) | 3 | |
| | 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 | |
| Overvoltage recovery time | >=10s | | |
| Communication function | Communication protocols | Modbus-RTU | |
| | RS485: A, B/Bluetooth | BLE5.0, Compatible with BLE4.0, BLE4.1, BLE 4.2 | |
| Electrical parameter measurement function | Current | 1A≤I<0.1In | ±1.0% |
| | | 0.1In≤I≤1.0In | ±0.5% |
| | Voltage | 0.9Ue ≤U≤1.1Ue | ±0.5% |
| Power | 1A ≤ I < 0.1In | 0.9Ue ≤ U ≤ 1.1Ue | ±1.5% |
| | 0.1In ≤ I ≤ 1.0In | | ±1.0% |
| Flame retardant grade | V-0 | | |
| Pollution degree | 2 | | |
| Protection degree | IP20 | | |
| Assembled accessories | None | | |

3. Overall and mounting dimensions (mm)

