

NB8-125 Series MCCB

1. General

NB8-125 Moulded Case Circuit Breaker is mainly applicable to the general section distribution lines of commercial office buildings, residential buildings and general industrial uses with AC 50/60Hz, rated voltage up to 415V and rated current up to 125A.

Suitable for application:110VDC/Pole

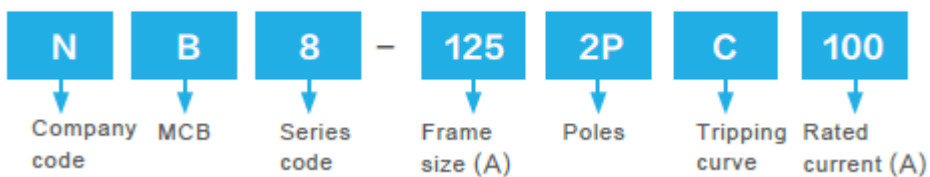
Function : overload, short circuit, isolation.

Standards : GB/T14048.2, IEC60947-2

Certificates : CCC、CE、CB、RoHS



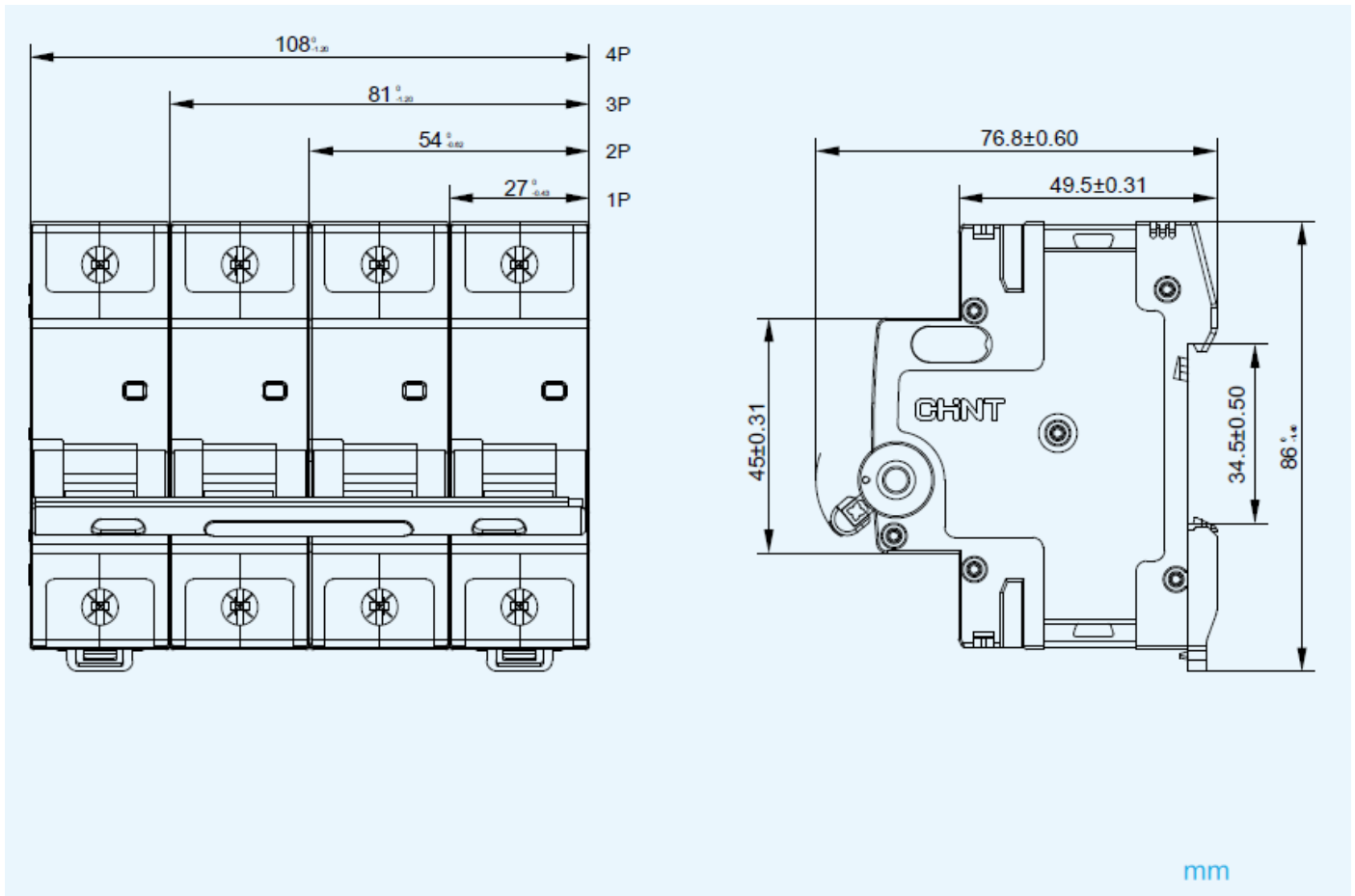
Type designation



2. Technical data

Product model		NB8-125
Compliant standards		IEC60947-2
Rated current (A)		80A, 100A, 125A
Rated voltage (V ~)		AC230V/415V, DC110V/Pole
Rated insulation voltage U_i		630V
Rated frequency (Hz)		50
Number of poles		1P, 2P, 3P, 4P
Mechanical life (cycles)		20000
Electrical life (cycles)		6000(80A,100A), 5000(125A)
Rated breaking capacity (A)		10000
Service breaking capacity (A)		7500
Rated impulse withstand voltage (1.2 / 50)(kV) @ 2000 Mtr		6
Anti Vibration (IEC/EN60068-2-6)		Places without obvious vibration and Impact
Terminals	Terminal connection type	Cable/Pin-Type busbar
	Minimum Terminal size (mm ²)	25
	Maximum Terminal size (mm ²)	50
	Tighten torque (N·m)	3.5 N·m
	Strip length (mm)	14
Reference temperature for setting of thermal element (°C)		30/40/50
Ambient temperature (°C)		-35~+70
Ambient storage temperature (°C)		-35~+85
Applicable altitude (m)		≤ 2000
Working principle		Thermal magnetic
Curves	C(6.4I _n ~9.6I _n)	▪
	D(9.6I _n ~14.4I _n)	▪
Flame retardant grade of shell		V-0
Cable entry		Top or bottom entry
Mounting		TH35-7.5-rail mounting
Pollution degree		3
Protection degree	Direct mounting	IP20B
	Mounted in the distribution box	IP40B
Accessories		S9, V9, XF9, XF9J, OVT-1, OUVT-1

3. Dimensions and installation sizes



4. 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 the temperature inside the enclosure or switchboard in which the circuit breakers are installed.

The reference temperature is 50°C

Rated current In (A)	Temperature compensation coefficient under various operational temperature										
	-35°C	-20°C	-10°C	0°C	10°C	20°C	30°C	40°C	50°C	60°C	70°C
125A	1.627	1.534	1.423	1.380	1.318	1.254	1.165	1.084	1.000	0.917	0.825

5. Ordering information

Order code	Description and specification
400553	NB8-125 1P C125A