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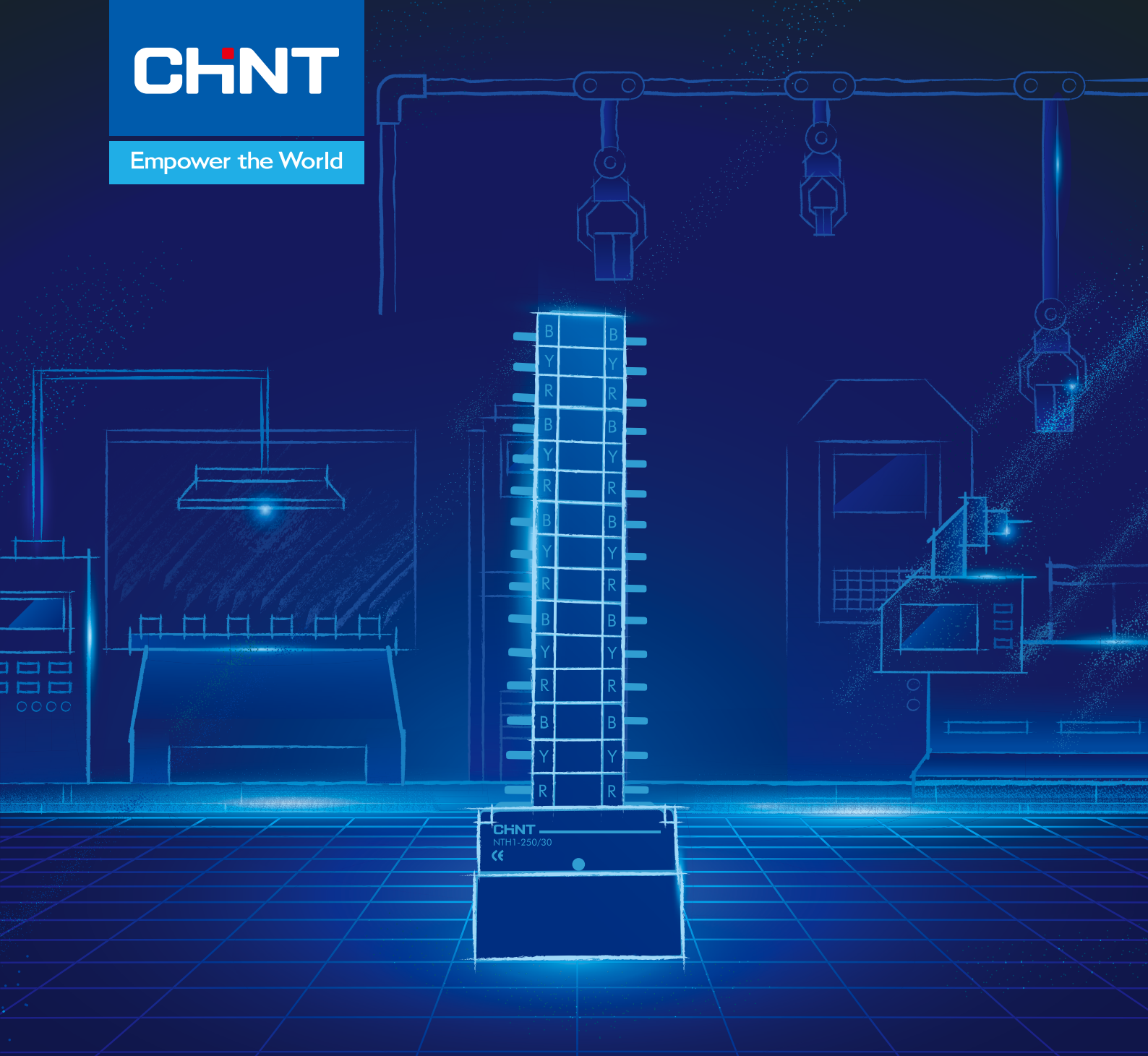
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CHNT

Empower the World



NTH1

Pan assembly

ABOUT CHINT



CHINT A leading global provider of smart energy solutions

CHINT was established 38 years ago in 1984 and built from the capital of approximately 8,000 US dollars. With our rapid development these years, CHINT has become the world's leading intelligent energy solutions provider for the whole industrial chain with the most complete product ranges. In 2021, our annual sales revenue exceeded 16.1 billion dollars and total assets of more than 16.2 billion.

Over two decades of global expansion, our business network covers more than 140 countries and regions worldwide in business industries of low-voltage electric, power transmission and distribution, smart technology, energy instruments and meters, green energy, solar and more. CHINT has more than 40,000 employees worldwide, creating more than 200,000 jobs in the industrial chains.

As the market localization progresses steadily, CHINT Global further establishes its supply chain through business integration and industrial upgrade. Optimizing the service system and project financing, providing innovatively integrated technical services for the global energy market, and a flexible working business model. energy, intelligent manufacturing and digital technology, CHINT has adopted "One Cloud & Two Nets" as the business strategy, takes "CHINT Cloud" as the carrier of intelligent technology and data application, and takes the lead in building the energy Internet of things (EIoT) and industrial Internet of things platforms (IIoT).

Focusing on the energy system of supply, storage, transmission, distribution and consumption, CHINT has core businesses of clean energy, energy distribution, big data and energy value-added services. Furthermore, CHINT's pillar businesses include photovoltaic equipment, energy storage, power transmission & distribution, low-voltage apparatuses, intelligent terminals, software development and control automation. By developing into a platform-based enterprise, CHINT provides a package of energy solutions for public institutions, industrial & commercial users and end-users, by building a regional smart energy operation ecosphere.

Main Businesses



Clean Energy



Low-voltage
Apparatus



Power Transmission and
Distribution



Instrumentation
and Apparatus



Smart Home



Intelligent
Building



Intelligent
Manufacturing



Industry
Automation



Smart Heating



Smart Water

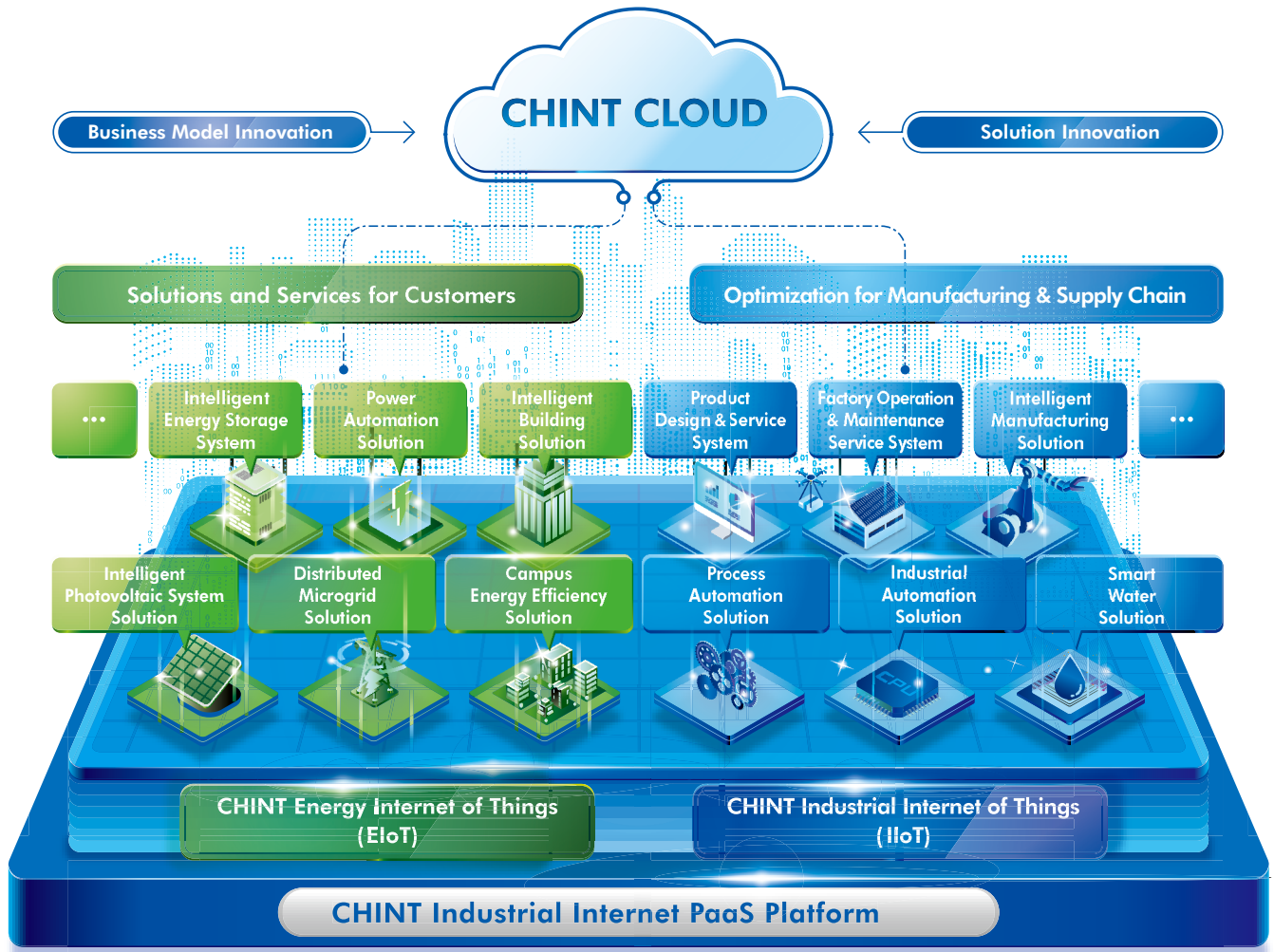


Home Electrical
Apparatus



Energy Efficiency
Management

ONE CLOUD & TWO NETS STRATEGY



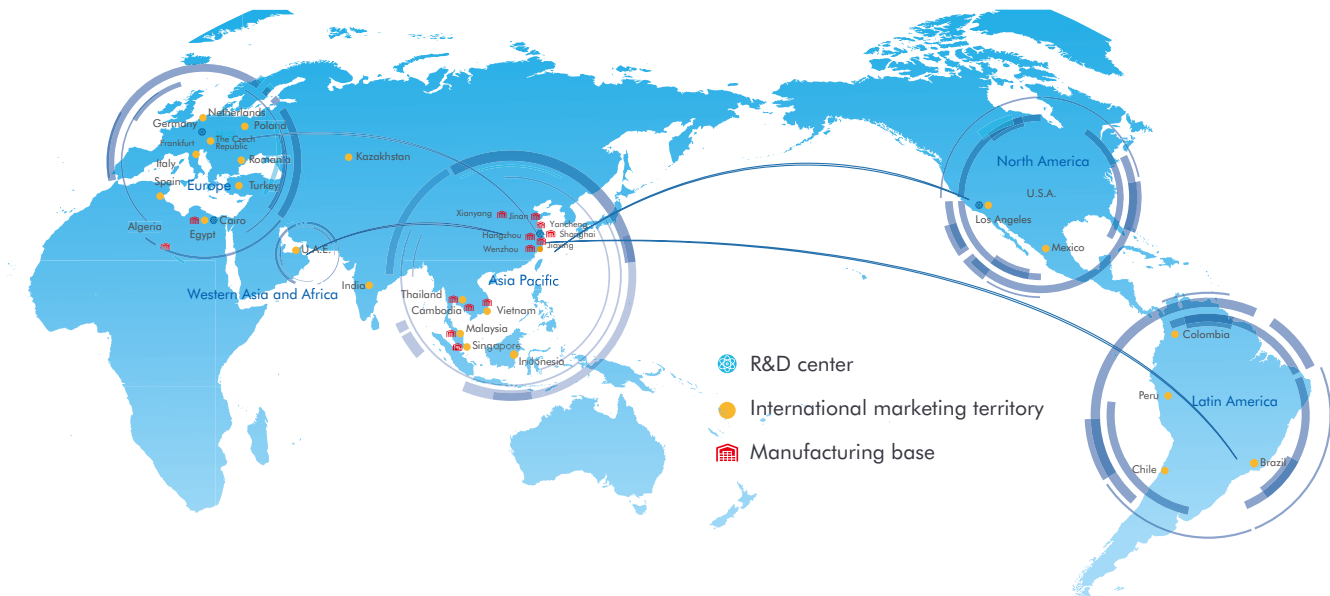
Energy system optimization is an inevitable trend against the background of resource shortage, environmental pollution and climate change – three challenges faced by global energy development. To keep in line with the trend, CHINT actively implements the business strategy of One Cloud & Two Nets, continuously promotes the deep integration of big data, IoT, AI and manufacturing industry in stages to become a platform-based enterprise, and leads the new direction of industry development.

As a medium of smart technology and data applications, CHINT Cloud connects corporate in-house manufacturing with operation and management data, realizing digital applications and services both internally and externally.

As a user-centric multi-energy complementary smart energy system, CHINT EIoT provides a package of energy solutions for governments, industrial & commercial users and end users. Its business includes Smart Energy Efficiency, Smart Power, Smart Home and Smart Clean Energy, etc.

As a smart manufacturing system based on corporate digital transformation, CHINT IIoT constitutes a flexible, high-efficiency and intelligent industrial system. Its business includes Intelligent Manufacturing, Intelligent Industry, Smart Water, Smart Heating, etc.

GLOBAL FOOTPRINT



4 National R&D Centers: North America, Europe, Asia Pacific, North Africa

6 International Marketing Territories: Asia Pacific, Western Asia and Africa, Europe, Latin America, North America, China

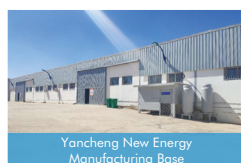
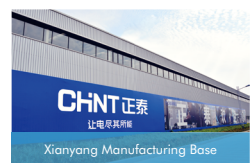
14 Manufacturing Bases: China (Wenzhou, Hangzhou, Shanghai, Jiaxing, Xianyang, Jinan, Yancheng), Thailand, Singapore, Vietnam, Malaysia, Egypt, Algeria and Cambodia

20+ International Logistics Centers

2300+ Sales Companies

GLOBAL CAPACITY LAYOUT

The industrial manufacturing bases are mainly located in Wenzhou, Hangzhou, Shanghai, Jiaxing, Xianyang and Yancheng. Additionally, CHINT has set up factories in Thailand, Singapore, Vietnam, Malaysia, Egypt, Cambodia etc.



R&D, QUALITY, SALES, LOGISTICS

Main Advantages

Global R&D System

CHINT has established national R&D centers in North America, Europe, Asia Pacific, North Africa and other areas. We have explored the mode of Industry-University Research Institute Collaboration and Integration together with the universities and research institutions worldwide so as to integrate the global innovation resources and promote corporate R&D innovation and talent cultivation.



24 research institutes



The average annual R&D investment accounts for 4-12% of the revenue



Over 6000 patents in total

Global Certification

The products have passed the standards and specifications in various regions around the world and obtained numerous international certifications



Honors

- No. 1 in China's Top 100 Private Enterprises with Social Responsibility in 2021
- No. 92 in 2021 China's Top 500 Private Enterprises
- No. 244 in 2021 Top 500 Chinese Enterprises
- The intelligent manufacturing factory of low-voltage electrical appliances was selected as the national 2021 Intelligent Manufacturing Demonstration Factory



Integrated Vertical R&D



By gathering the global industry elites to Provide safe and stable energy-saving green and advanced electric products.



Great Quality System

Ensuring flaw-free and trouble-free products, the multi-dimensional and multilevel control is conducted through procurement, inspection, quality control and certification.



One-stop Services

CHINT's concept is that it is not difficult to fulfill a high-quality logistics distribution at one time, while it is difficult to stay as accurate and prompt as the first-time. High-efficiency and high-precision accuracy are our requirement.



48-Hour Response

Providing end-to-end one-stop services for customers with complains, business consulting and technical support by solving problems immediately and including any possible problems in advance.

5%

At least 5% of revenue is invested in research and development



NTH1

Pan assembly

NTH1 Pan assembly

1.0 General

2.0 Type designation

3.0 Features

4.0 Technical parameters

5.0 Dimensions

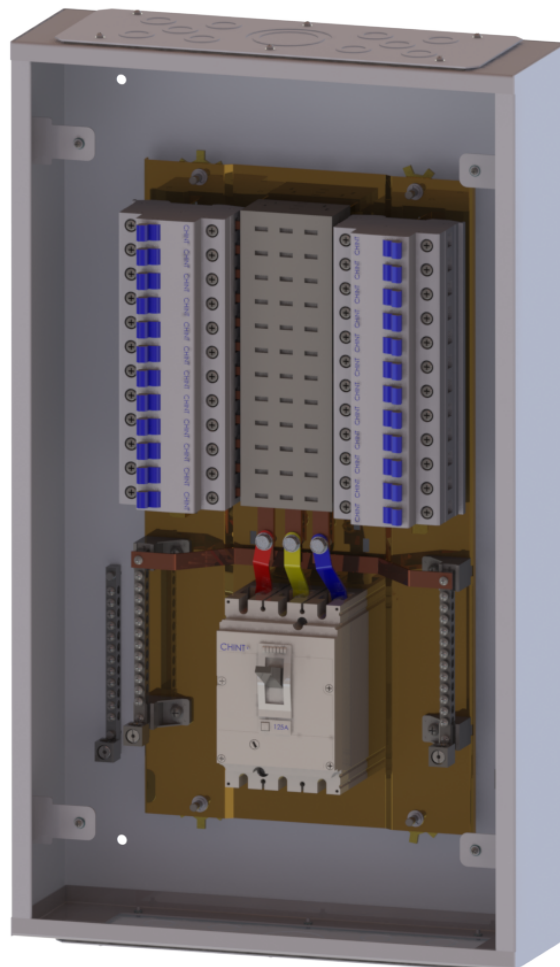
6.0 Installation instructions

General

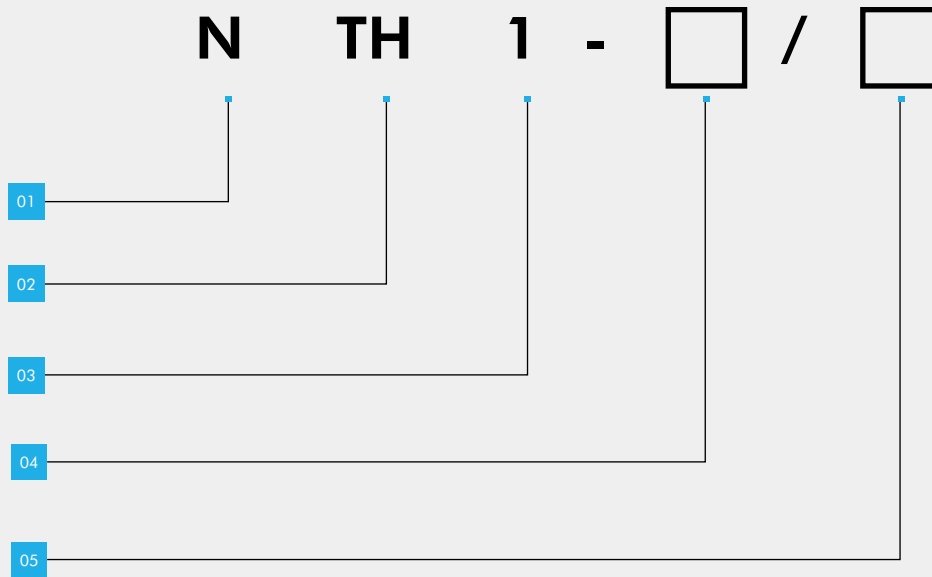
NTH1 Pan assembly is the latest comb busbar developed by CHINT, which can be used for power distribution in final distribution boxes of 250A and below. Different from the conventional distribution box in the past, the distribution box equipped with NTH1 Pan assembly can minimize the difficulty of wiring and installation time.

The incoming port can be adapted not only to MCCBs, but also to MCBs, RCDs, ELCBs and other devices at standard 18mm modulus switch through the adapter bar connection. The outgoing port can directly accommodate MCBs, RCDs, ELCBs and other devices at standard 18mm modulus terminal components.

Benefit from the quickly mount or remove feature, NTH1 Pan assembly can avoid large-scale power outages. Quickly maintenance and expansion have become a highlight of NTH1.



Type designation



- 01 Enterprise identification number
- 02 Category code
- 03 Design Number
- 04 Current level: 125A/250A
- 05 Number of branches: 12/18/24/30/36/42/48

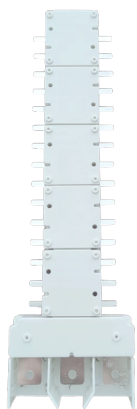
Features

3.1 Full Test

NTH1 test items are complete, with full test report. At the same time comply with ROHS, and have EU declaration of conformity.

Test items:

- Short-circuit withstand strength
- Clearances and creepage distances
- Dielectric properties
- Glow-wire
- Dry heat
- Cold
- Ultimate high temperature
- Drop



3.2 High security

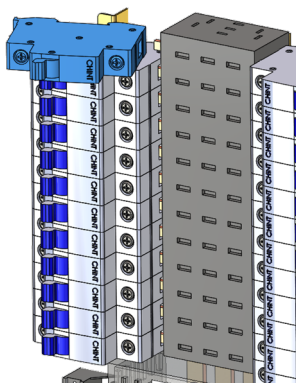
All units are fully insulated and totally encapsulated in a composite proprietary matrix filler giving a fault free unit without nuts, bolts, rivets or other fault provoking components.

The busbar is made of T2 copper. Copper content $\geq 99.90\%$.



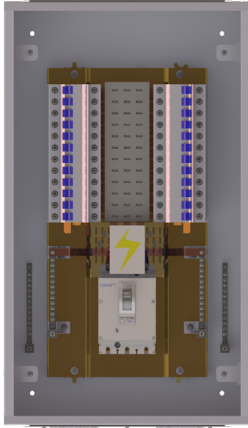
3.3 Quickly maintenance and expansion

The outing MCBs installed on NTH1 Pan assembly can be mounted or removed quickly, avoiding large-scale power outages and saving maintenance and expansion cost.



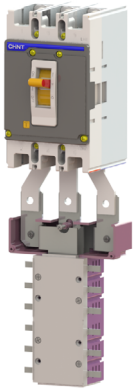
Features

3.4 Saving space



Compared with the complex wiring in the traditional distribution box, the outgoing ports of NTH1 can be directly connected with components, avoiding lots of wiring work. The compact arrangement of outlet components allows more operating space inside the box.

3.5 High suitability



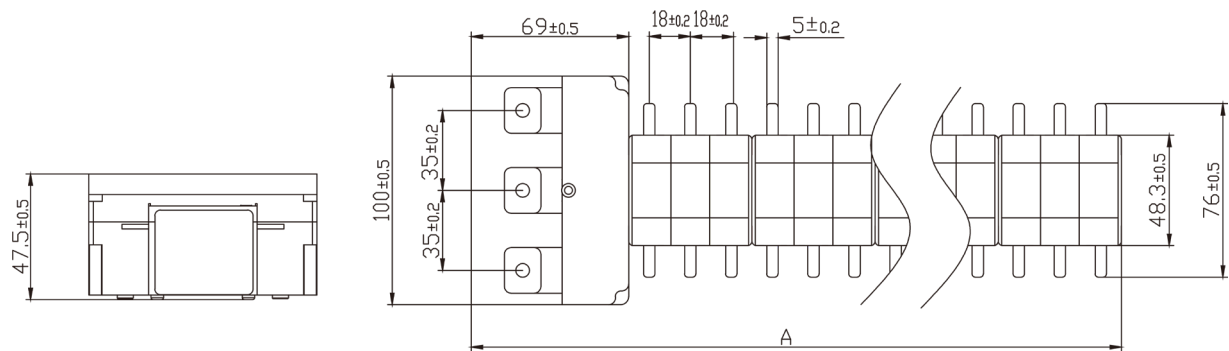
Through the adapter bar, the incoming port can directly connect to CHINT components, not only NXM and NM8N series MCCBs, but also NXB and NB1 series MCBs and other RCD and isolator components¹. The outgoing port can directly accommodate NXB, NB1, NB1L, NH4 and other devices at standard 18mm modulus terminal components.

¹: Please note the incoming components type when ordering.

Technical parameters

NO.	Items	Parameters
1	Ambient temperature(°C)	-25~+70
2	Atmospheric humid conditions	At +40°C , the relative humidity is 50%; At +20°C , it can reach 90%
3	Altitude	No effect below 2000m
4	Pollution level	Level 2
5	Number of poles	3
6	Rated working voltage Ue(V)	AC 400/415V
7	Rated working current Ie(A)	125/250
8	Rated insulation voltage Ui(V)	690
9	Rated frequency(Hz)	50/60
10	Number of branches	12、18、24、30、36、42、48
11	Rated short-time withstand current	125A: 12kA/0.25s
		250A: 17kA/0.25s

Dimensions

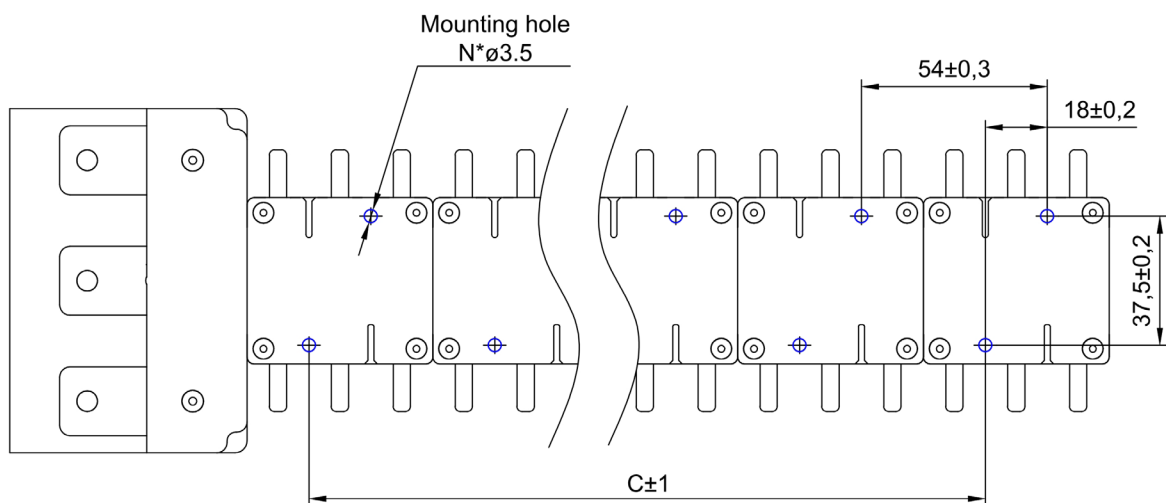
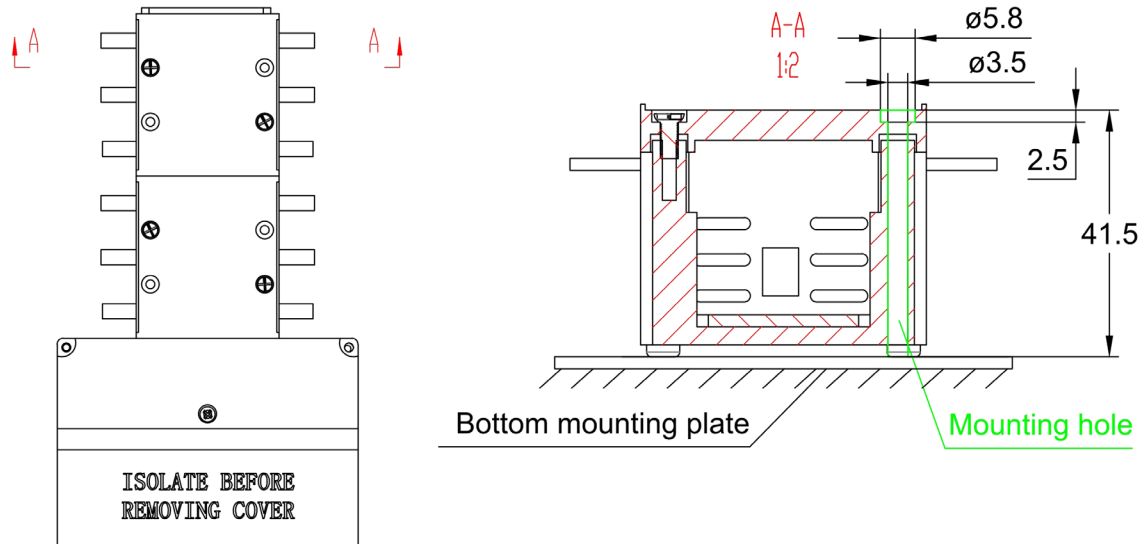


Model specification	Length A (mm)	Width (mm)	Height (mm)	Busbar thickness (mm)
NTH1-125/12	180	100	47.5	2
NTH1-125/18	234	100	47.5	2
NTH1-125/24	288	100	47.5	2
NTH1-125/30	342	100	47.5	2
NTH1-125/36	396	100	47.5	2
NTH1-125/42	450	100	47.5	2
NTH1-125/48	504	100	47.5	2
NTH1-250/12	180	100	47.5	3
NTH1-250/18	234	100	47.5	3
NTH1-250/24	288	100	47.5	3
NTH1-250/30	342	100	47.5	3
NTH1-250/36	396	100	47.5	3
NTH1-250/42	450	100	47.5	3
NTH1-250/48	504	100	47.5	3

6.0

Installation instructions

It is recommended to use M3 bolts for fixing, matching with M3 nuts or tapping on bottom mounting plate. M3*45 bolts are required. The dimensions of the mounting holes are shown below.



Installation instructions

Model specification	C(mm)	N(No.)
NTH1-125/12	54	4
NTH1-125/18	108	6
NTH1-125/24	162	8
NTH1-125/30	216	10
NTH1-125/36	270	12
NTH1-125/42	324	14
NTH1-125/48	378	16
NTH1-250/12	54	4
NTH1-250/18	108	6
NTH1-250/24	162	8
NTH1-250/30	216	10
NTH1-250/36	270	12
NTH1-250/42	324	14
NTH1-250/48	378	16

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