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A CHINT COMPANY

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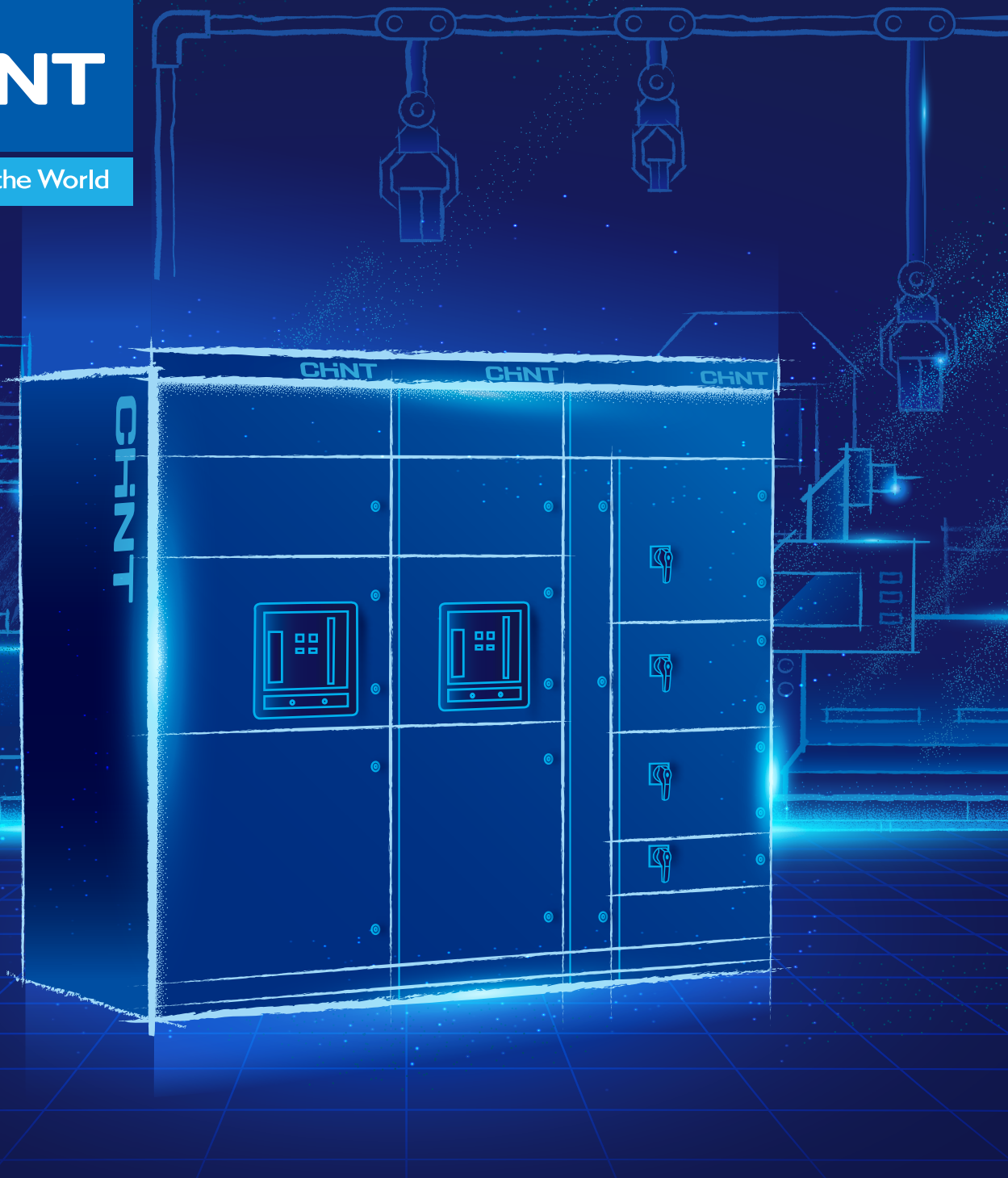


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The CHINT logo is displayed in white text on a dark blue background. The 'i' in CHINT has a small red dot above it.

CHINT

Empower the World



Main Distribution Boards

In EnergiX series by CHINT

ABOUT CHINT



CHINT A leading global provider of smart energy solutions

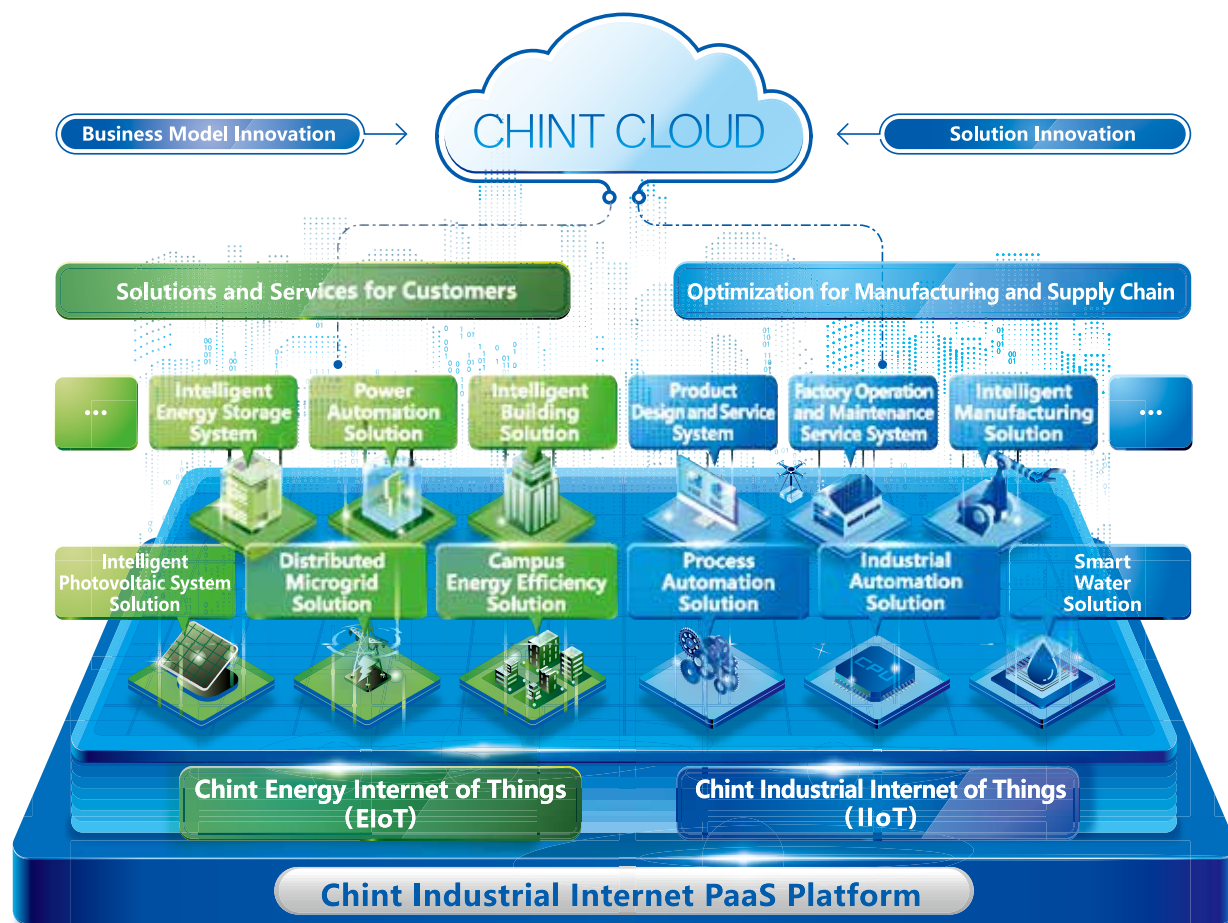
Founded in 1984, CHINT is a leading global provider of smart energy solutions. It is actively deploying “4+1” industrial sectors including smart electrics, green energy, industrial control and automation, smart home and incubator, forming an integrated whole industry chain of “power generation, storage, transmission, substation, distribution, sales and consumption”. And it boasts an extensive business network across over 140 countries and regions as well as more than 30,000 employees and an annual sales revenue of over USD 11.4 billion. CHINT has been ranking among China’s Top 500 companies for 18 consecutive years. Its subsidiary, CHINT Electrics is the first company in China with low-voltage electrics as its main business getting listed on the A-share market as one of the Top 50 Asian listed companies.

To comply with the trend of integrated development of modern energy, intelligent manufacturing and digital technology, CHINT has adopted “One Cloud & Two Nets” as the business strategy. CHINT Cloud fulfills digital application and services in both

internal and external as the platform of intelligent technology and data application. Based on the Industrial Internet of Things (IIoT), CHINT built an intelligent manufacturing system and realizes intelligent application in electrical industry. Relying on the Energy Internet of Things (EIoT), CHINT built its smart energy system and develops the regional EIoT mode.

Focusing on 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 pillar businesses include photovoltaic equipment, energy storage, power transmission & distribution, low-voltage apparatuses, intelligent terminals, software development and control automation. With 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.

ONE CLOUD & TWO NETS STRATEGY



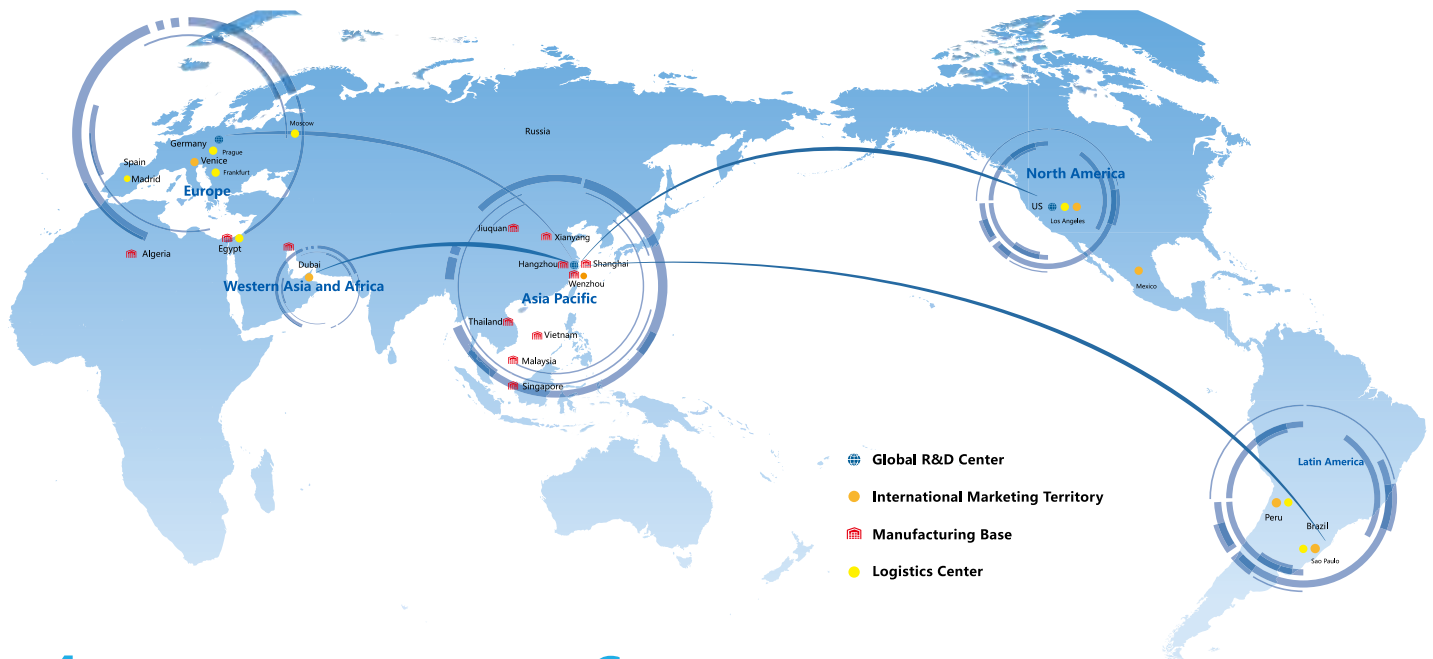
Energy system optimization is an inevitable trend against the background of resource shortage, environmental pollution and climate change – three challenges faced by global energy development. To keep in line with the trend, CHINT actively implements the business strategy of One Cloud & Two Nets, continuously 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 International 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

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

20+ International Logistics Centers

22 Global Subsidiaries

2000+ Sales Companies

GLOBAL CAPACITY LAYOUT

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



Egypt Production Base



Vietnam Production Base



Malaysia Production Base



Thailand Solar Power
Production Base



Singapore Complete Electric
Equipment Production Base



Shanghai Production Base



Hangzhou Production Base



Wenzhou Production Base



Jiaxing Production Base



Xianyang Production Base

R&D, QUALITY, SALES, LOGISTICS

By providing reliable products and service for clients, CHINT puts forward the concept "Great Quality." Quality control and upgrade is divided into four systems: scientific research, quality control, marketing service and logistics distribution. These methods and strategies make a comprehensive upgrade to product quality and services. Emphasis on "prevention first, continuous improvement" is the basis of an effective quality inspection system. Leading the management process of "Great Quality" in the production process controls each link of production accurately and realizes the institutional operation of quality improvement.

"Great Quality" is not just a slogan, but a belief rooted in each employee's work. High-quality and accuracy are the basic requirement. Starting from a routine operation by each staff to implementing a high-quality of production and service, CHINT is your most reliable partner.

Service Concept

Sincerely care for customers, quality creates value

Service Purpose

Innovative and progressive, satisfying the customers



Integrated Vertical R&D

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

5%

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



Great Quality System

Ensuring flaw-free and trouble-free products, the multi-dimensional and multi-level 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.



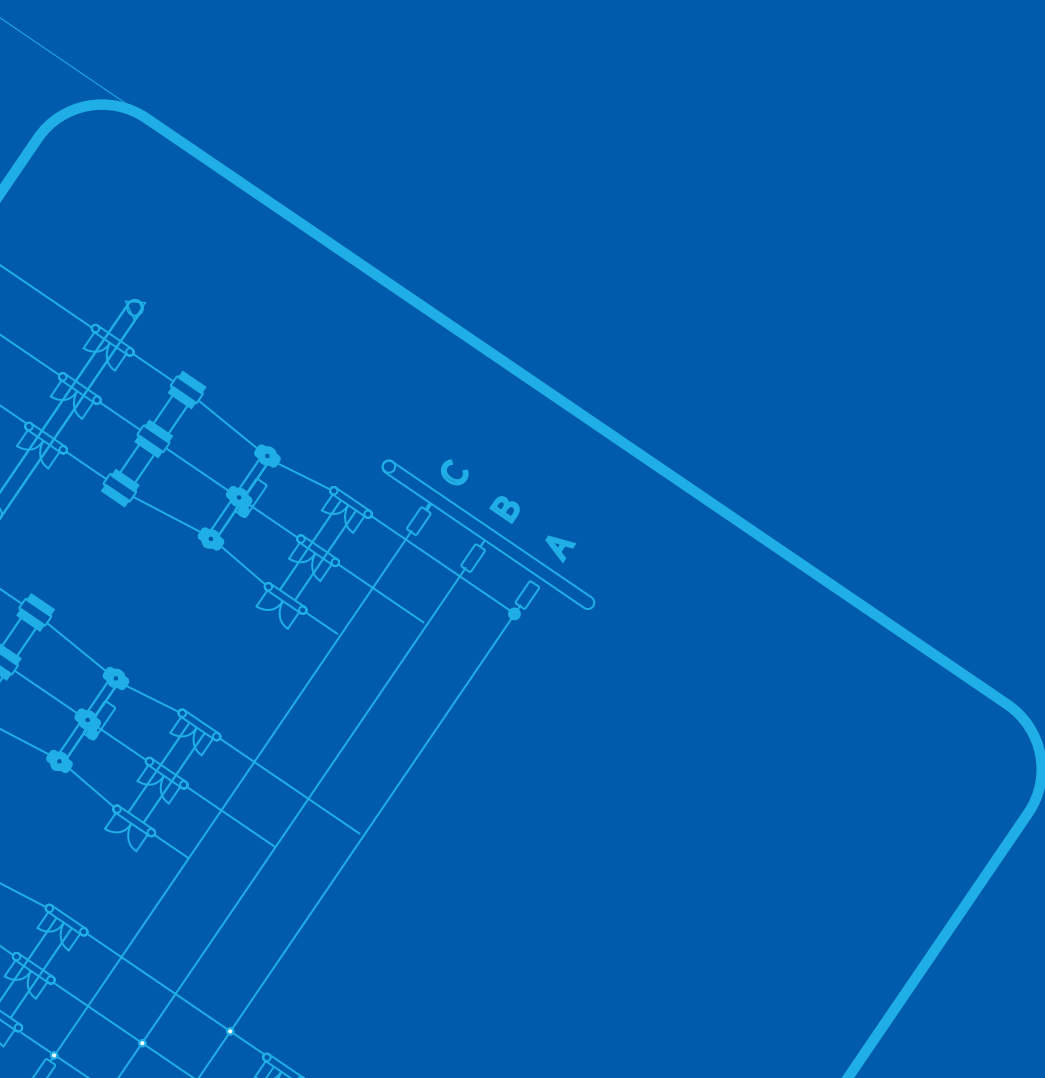
48-Hour Response

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.



EnergiX-M

01



EnergiX-M

1.0 General

2.0 Features

3.0 Technical parameters

4.0 Typical application

5.0 Typical scheme

6.0 Components

7.0 Transport and installation

1.0

General

For over 40 years, CHINT has cultivated a rich tradition of safety and innovation, developing electrical products that set the industry standard in technology and met the demands of commercial buildings, residential buildings, hospitals, airports, petrochemical industry, mining industry, steel industry and other applications that required safe, reliable and high performance protection of their electrical power main-distribution systems. This expertise has now come full circle with the introduction of a solution for the such application electrical management hub: CHINT (Main distribution board) EnergiX-M.



2.0

Features

2.1 High standard

Comply with IEC 61439-1 and 2, type tested by DEKRA UAE+EU

Testing items:

a) Construction:

- 10.2 Strength of materials and parts
- 10.3 Degree of protection of assemblies (IP Code)
- 10.4 Clearances and creepage distances
- 10.5 Protection against electric shock and integrity of protective circuits
- 10.6 Incorporation of switching devices and components
- 10.7 Internal electrical circuits and connections
- 10.8 Terminals for external conductors.

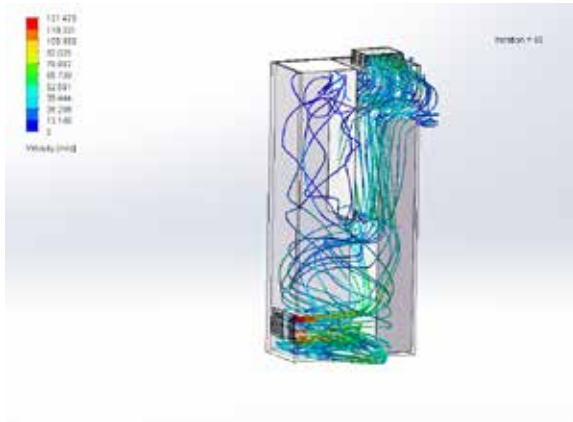
b) Performance:

- 10.9 Dielectric properties
- 10.10 Temperature-rise
- 10.11 Short-circuit withstand strength
- 10.12 Electromagnetic compatibility

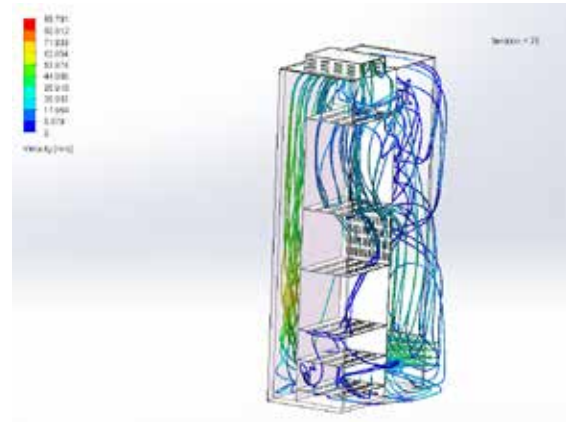


Features

2.2 Reliable operation at ambient temperature of 50 °C



Use software to simulate heat dissipation



Suitable for hot areas in the Middle East and Africa



Certified under 50 °C ambient temperature

2.0

Features

2.3 Up to IP54 protection degree



Certified under 50 °C ambient temperature

















Suitable for dusty project and water treatment

Features

IP degrees of protection

IEC 60529 standard defines the IP code, which is expressed numerically and provided by the enclosure degree of protection.

- 1st number: Protection against the penetration of solid objects
- 2nd number: Protection against liquids

1st number: Protection against the penetration of solid objects			2nd number: Protection against liquids		
0	-	No protection	0	-	No protection
1		Protected against solid objects larger than 50 mm	1		Protected against vertically falling drops of water (condensation)
2		Protected against solid objects larger than 12.5 mm	2		Protected against dripping water up to 15° from the vertical
3		Protected against solid objects larger than 2.5 mm	3		Protected against rainwater up to 60° from the vertical
4		Protected against solid objects larger than 1 mm	4		Protected against water sprayed from all directions
5		Protected against dust (no harmful deposits)	5		Protected against water jets from all directions
6		Totally protected against dust	6		Totally protected against powerful water jets similar to heavy seas
			7		Protected against the effects of immersion
			8		Protected against the effects of prolonged immersion under specified conditions

2.0

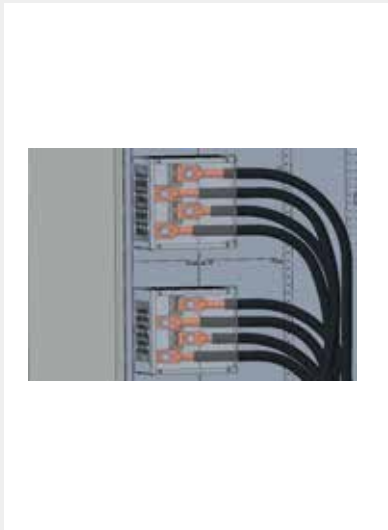
Features

2.4 Form 4b separation, safe and reliable



Functional units is separated from each other

Main busbar is separated from functional units



Outgoing terminals of MCCB are separated from others

2.0

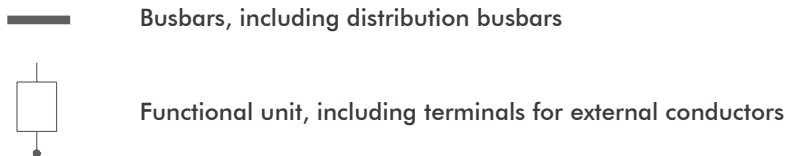
Features

Separations inside an assembly

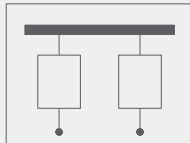
Standard IEC 61439-2 defines the separations inside an assembly according to 4 types of form, each form being divided into two groups, 'a' and 'b'. These internal separations are created using barriers or screens made of metal or insulating material.

- Form 1: No separation
- Form 2: Separation of busbars from functional units
- Form 3: Separation of busbars from functional units and separation of all functional units from each other. Separation of terminals for external conductors from functional units
- Form 4: Separation of busbars from functional units and separation of all functional units from each other. Separation of terminals for external conductors from busbars.

Cutline:

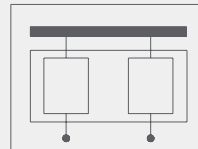


Form 1

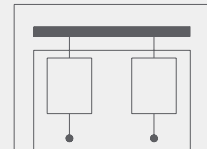


No separation

Form 2

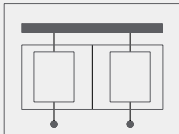


Form 2a: Separation of busbars from functional units. Terminals for external conductors do not need to be separated from busbars.

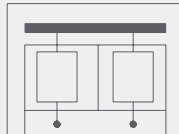


Form 2b: Separation of busbars from functional units. Terminals for external conductors are separated from busbars.

Form 3

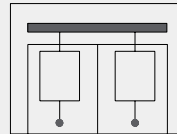


Form 3a: Separation of busbars from functional units and separation of all functional units from each other. Terminals for external conductors do not need to be separated from busbars.

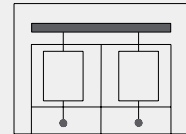


Form 3b: Separation of busbars from functional units and separation of all functional units from each other. Separation of terminals for external conductors from functional units but no separation between terminals.

Form 4



Form 4a: Separation of busbars from functional units and separation of all functional units from each other, including the terminals for external conductors which are an integral part of the functional unit. Terminals for external conductors are in the same compartment as the functional unit.



Form 4b: Separation of busbars from functional units and separation of all the functional units from each other including terminals for external conductors. Terminals for external conductors are not in the same compartment as the functional unit but in separate individual compartments.

Features

2.5 The frame is free of welding, easy to splicing



EnergiX-M frame is composed of C profiles with 25mm modulus holes. 25mm is a modular unit, denoted by 1E (=25mm). The layout of the module holes can provide an extension of different uses, with excellent user friendliness, and can meet any non-standard design requirements.



Integrated welding-free G-beam

The framework is fixed by self-tapping bolts, which is welding-free, fast and environmentally friendly

2.0

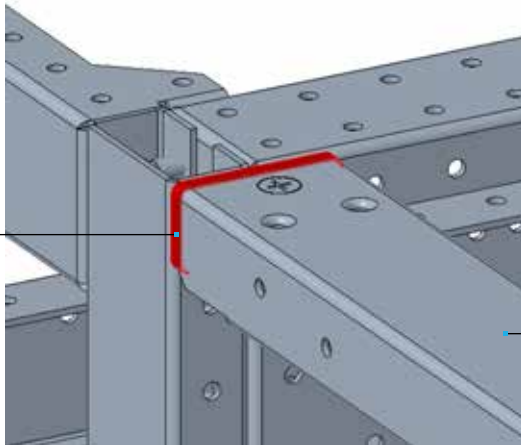
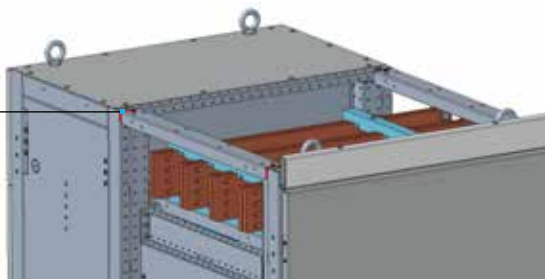
Features

2.6 Anti-magnetic design

Using aluminum alloy part, can effectively block the eddy current circuit in the main busbar area.



aluminum alloy part



Gap between the beam and the enclosure

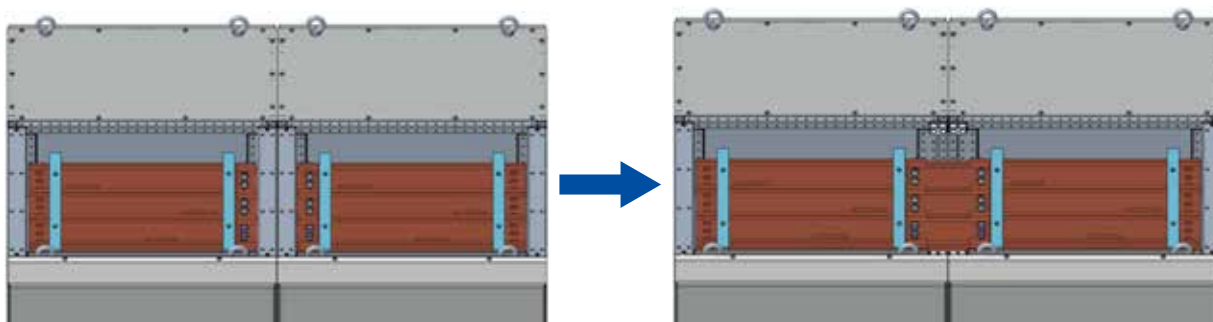
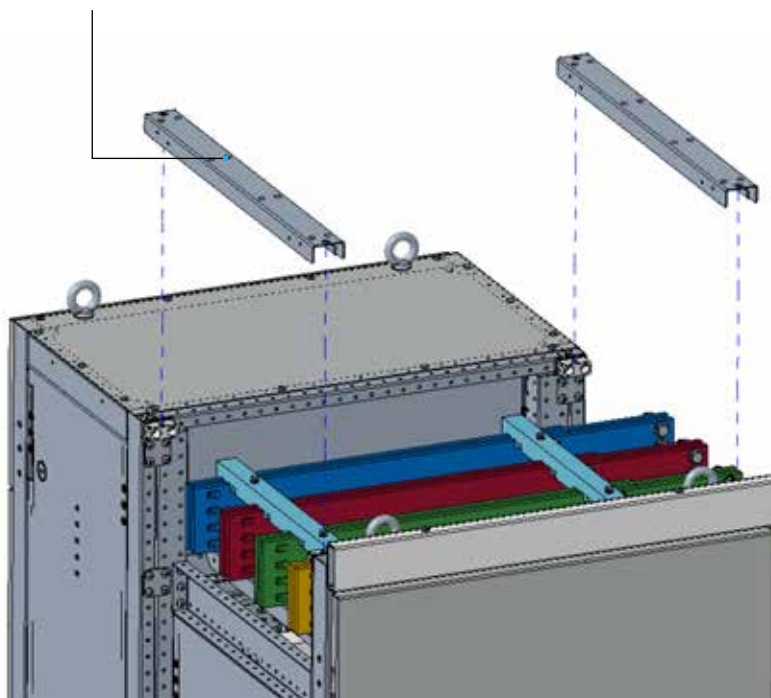
$\geq 3200A$, this beam will be made of stainless steel

2.0

Features

2.7 Convenient connection on project site

This beam can be moved easily, so the main busbar can be placed not only from the side, but also from the top.

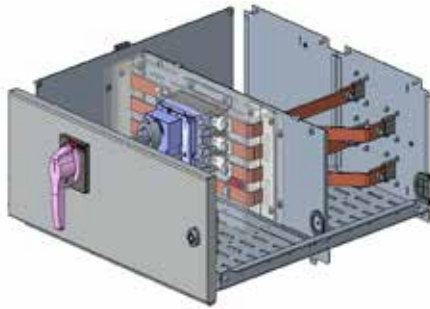


The main busbar can be disconnected in each single panel and pre-installed in the factory.

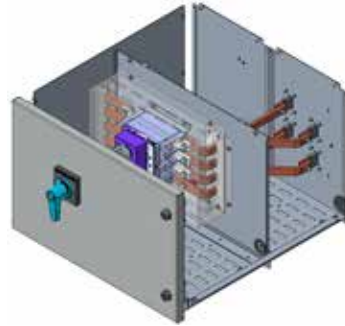
2.0

Features

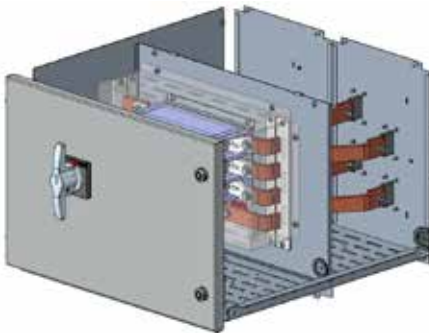
2.8 Modular design, convenient to install and maintenance



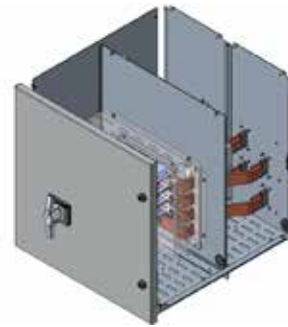
For $\leq 125\text{A}$ MCCB



For $\leq 250\text{A}$ MCCB



For $\leq 400\text{A}$ MCCB



For $\leq 630\text{A}$ MCCB

Technical parameters

Standard	IEC 61439-1&2
Rated current(A)	Up to 3200
Rated insulation voltage (V AC)	1000
Rated operation voltage (V AC)	400/415
Rated impulse voltage(KV)	VBB HBB I/C ACB O/G ACB 12
	O/G MCCB 8
Rated short time withstand current Icw	Main busbar 50KA/3s (MDB-1600)
	Main busbar 65KA/3s (MDB-2500)
	Main busbar 65KA/3s (MDB-3200)
Incoming unit Icc	Up to 85 KA at 436V
Frequency (Hz)	50/60
IP	Up to IP54
IK	Up to 10
Form	Up to 4b
Ambient temperature(C)	50
Height(mm)	2200
Width(mm)	700~1100
Depth(mm)	800~1100
Surface treatment of enclosure	Polyester Powder Coating
Color	RAL7035 / Customizable
Cable entry-incoming	Top/Bottom
Cable entry-outgoing	Top/Bottom

4.0

Typical application

As the main distribution board, EnergiX-M plays a significant role in power distribution and control. Through the communication function and software module, EnergiX-M can realize the effective connection with the industrial and building automation system, so as to further bring huge saving potential.



Commercial building



Residence



Hospital



Petrochemical industry



Mining industry



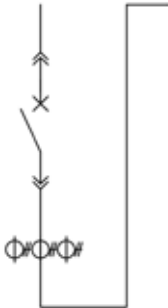
Steel industry

5.0

Typical scheme


EnergiX-M switchgears have the following representative dimensions, constructed to provide the best solution using minimum space without affecting power efficiency.

5.1 Incoming solution

Primary Schematic Diagram					
Rated current	Main breaker	Unit height	Switchgear height	Switchgear width	Switchgear depth
400	NA8-1600	600	2200	900	1100
630	NA8-1600	600	2200	900	1100
800	NA8-1600	600	2200	900	1100
1000	NA8-1600	600	2200	900	1100
1250	NA8-1600	600	2200	900	1100
1600	NA8-1600	600	2200	900	1100
2000	NA8-2500	600	2200	900	1100
2500	NA8-3200	600	2200	900	1100
3200	NA8-4000	600	2200	900	1100

Typical scheme


5.2 Outgoing solution

Primary Schematic Diagram					
Rated current	Main breaker	Unit height	Switchgear height	Switchgear width	Switchgear depth
16	NM8N-125	200	2200	900	1100
25	NM8N-125	200	2200	900	1100
32	NM8N-125	200	2200	900	1100
40	NM8N-125	200	2200	900	1100
63	NM8N-125	200	2200	900	1100
125	NM8N-125	200	2200	900	1100
160	NM8N-250	200	2200	900	1100
250	NM8N-250	200	2200	900	1100
400	NM8N-400	400	2200	900	1100
630	NM8N-630	600	2200	900	1100
800	NA8-1600	600	2200	700	1100
1000	NA8-1600	600	2200	700	1100
1250	NA8-1600	600	2200	700	1100
1600	NA8-1600	600	2200	700	1100
2000	NA8-2500	600	2200	700	1100
2500	NA8-2500	600	2200	900	1100

5.0

Typical scheme

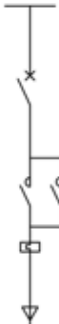
5.3 Direct start

Primary Schematic Diagram					
Power	Current	Main breaker	Contactor	Thermal relay	Unit height
≤5.5	12	NM8N-125	NC8-18	NR8-38	200
11	21	NM8N-125	NC8-25	NR8-38	200
22	43	NM8N-125	NC8-50	NR8-93	200
45	83	NM8N-125	NC8-95	NR8-93	200
55	99	NM8N-125	NC8-115	NR8-200	200
75	133	NM8N-250	NC8-150	NR8-200	400
90	157	NM8N-250	NC8-185	NR8-200	400
110	195	NM8N-250	NC8-225	NR8-630	400
132	233	NM8N-250	NC8-265	NR8-630	400
160	280	NM8N-400	NC8-330	NR8-630	600
200	340	NM8N-400	NC8-400	NR8-630	600

5.0

Typical scheme

5.4 Forward/Reverse DOL

Primary Schematic Diagram							
		Power	Current	Main breaker	Contactor	Thermal relay	Unit height
		≤5.5	12	NM8N-125	NC8-18	NR8-38	200
		11	21	NM8N-125	NC8-25	NR8-38	200
		22	43	NM8N-125	NC8-50	NR8-93	200
		45	83	NM8N-125	NC8-95	NR8-93	200
		55	99	NM8N-125	NC8-115	NR8-200	200
		75	133	NM8N-250	NC8-150	NR8-200	400
		90	157	NM8N-250	NC8-185	NR8-200	400
		110	195	NM8N-250	NC8-225	NR8-630	400
132	233	NM8N-250	NC8-265	NR8-630	400		

5.0

Typical scheme

5.5 Star-delta start

Primary Schematic Diagram					
		Power	Current	Main breaker	Contactor
≤5.5	12	NM8N-125	NC8-18	NR8-38	200
11	21	NM8N-125	NC8-25	NR8-38	200
22	43	NM8N-125	NC8-50	NR8-93	200
45	83	NM8N-125	NC8-95	NR8-93	200
55	99	NM8N-125	NC8-115	NR8-200	200
75	133	NM8N-250	NC8-150	NR8-200	400
90	157	NM8N-250	NC8-185	NR8-200	400
110	195	NM8N-250	NC8-225	NR8-630	400
132	233	NM8N-250	NC8-265	NR8-630	400

Components

NA8 Air Circuit Breakers



- Rated current of air circuit breakers ranges from 200A to 6300A.
- They are mainly used in the distribution grid, and provide the protection and control functions.
- There are fixed and draw-out types.
- The draw-out circuit breaker has the isolation function.
- For more information, please refer to product catalog.

Main Technical Parameters

Shell grade rated current In(A)	1600		2500		4000	
Rated insulation voltage Ui(V)	1000					
Rated impulse withstand voltage(kV)	12					
Number of poles	3P/4P					
Flashover distance(mm)	0					
Rated operational voltage Ue(V)	N 400V	N 690V	H 415V	H 690V	H 415V	H 690V
Rated ultimate short circuit breaking capacity Icu (kA)	55	36	85	65	100	85
Rated service breaking capacity Ics(kA)	50	36	85	65	100	85
Rated ultimate short circuit breaking capacity Icw (kA)1s	50	-	85	65	100	85
Rated ultimate short circuit breaking capacity Icw (kA)3s	30	30	50	50	75	75

Components

NM8N Moulded Case Circuit Breakers



- Rated current of moulded case circuit breakers ranges from 16A to 1600A.
- They are mainly used in the distribution grid, and provide the overload, short-circuit and undervoltage feeder protection of the circuit and electrical equipments.
- There are two kinds of releases, i.e. thermal-magnetic and electronic release.
- For more information, please refer to product catalog.

Main Technical Parameters						
Shell grade rated current I_n (A)	125	250	400	630	800	1600
Number of poles	3P/4P					
Rated insulation voltage U_i (V)	1000	1000	1000	1000	1000	1000
Rated impulse withstand voltage(kV)	8	8	12	12	12	8
Operating and storage temperature(°C)	-40°C ~+70°C					
Rated ultimate short circuit breaking capacity I_{cu} (kA)	Up to 150	Up to 150	Up to 150	Up to 150	Up to 150	Up to 100
Rated service breaking capacity I_{cs} (kA)	Up to 150	Up to 150	Up to 150	Up to 150	Up to 150	Up to 70
Rated ultimate short circuit breaking capacity I_{cw} (kA) 1s	-	Up to 3	5	Up to 3	10	20
Dimension(mm)W×H×L/3P	90×140×79	105×157×89	140×255×113	140×255×113	195×300×133	210×286×167(195) ¹
Dimension(mm)W×H×L/4P	120×140×79	140×157×89	185×255×113	185×255×113	260×300×133	280×286×167(195) ¹

Note: 1. The data in '()' is for motor type.

Components

NVF300M Series Inverter



- NVF300M Soft starters requiring external bypass contactors. The voltage series is 380V, and the power specifications are 7.5kW to 500kW. It has the characteristics of strong load adaptability, stable and reliable operation. It is widely used in motor transmission equipment in metallurgy, petroleum, fire protection, mine, water supply, municipal, food, cement, petrochemical and other fields.
- Traditional Star-Triangle Start and Self-Lotus Decompression Start are ideal renewal products.
- For more information, please refer to product catalog.

Universal Inverter



- Universal frequency converter, using speed sensor-less vector control technology, has the characteristics of small, portable, fast operation and excellent performance.
- It is widely used in various small and medium-sized mechanical equipment, such as air conditioning and refrigeration, building water supply, logistics machinery, ceramic machinery, etc.
- For more information, please refer to product catalog.

7.0

Transport and installation

7.1 Transport and installation

Only after full assembly and successful inspection, the switchgear can be packed and transported. Packing consists of single-panel, two panels and three- panels modes of transport. The maximum transport length is 2000mm.

When products arrive at the destination, customers should first check whether the packing cases are complete. If the switchgear is not used immediately, it should be stored at a dry and clean place.

The switchgear should be installed according to the section dimensional drawing. The base channel steel should be selfprepared or required by the user before placing an order. If the cable outlet is required, the cable trench must be installed. Upon installation, the main busbar connection should be first installed according to the drawing, the busbar surface should be cleaned and then tightened with bolts, cable or overhead wiring should be also installed. In case of parallel switchgear installation, the parallel holes should be tightened using bolts.

DANGER

Hazard of electric shock, burn or explosion

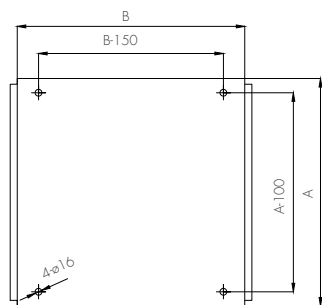
There is a risk of electric shock, scald or explosion inside and outside the equipment. Turn off all equipment before proceeding with working power Supply.

Failure to comply with these instructions will result in electric shock, serious personal injury or death!

7.0

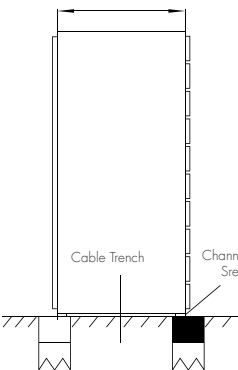
Transport and installation

7.2 Installation dimensions of switchgear

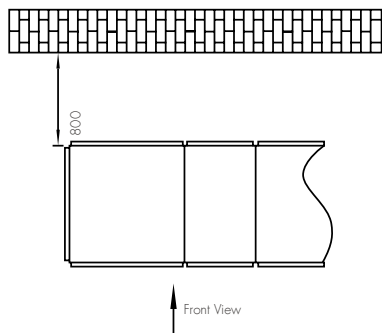


Using bolts

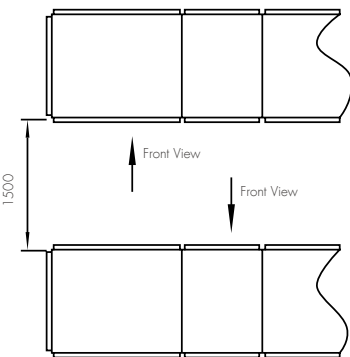
A: switchgear width(mm)
B: switchgear width(mm)



Using electric welding

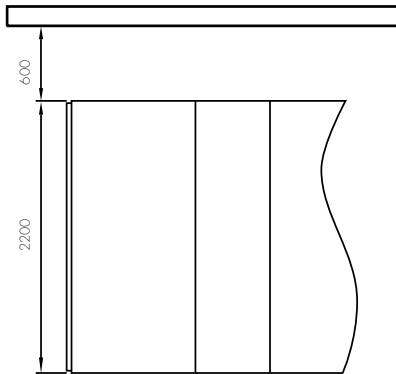


Rear outlet(top view)



Switchgear face-to-face installation (top view)

Transport and installation



Proposed reserved space of switchgear top (site view)

Spatial requirements of switch room

1. In case of rear outlet, the distance of switchgear back from the wall is $\geq 800\text{mm}$.
2. Face-to-face distance of switchgear front side is $\geq 1500\text{mm}$.
3. The distance of switchgear top from the ceiling is $\geq 600\text{mm}$.
4. If the floor is not completely flat, use a wedge to block the units before fixing them.
5. It is recommended to reserve more space for future expansion.

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