

CHINT.**N**₽.

#### Europe

Italy CHINT Electrics Europe S.R.L. Add: Via A. Pacinotti 28, 30033 Noale (VE

Add: Via A. Pacinotti 28, 30033 Noale (VE) Tel: 0039 335 6265 032 E-mail: chint\_eu@chint.com

#### Czech Republic

NOARK Electric Europe s.r.o.

Add:Sezemická 2757/2, 193 00 Prague Tel: +420 226 203 120 Email: Europe@noark-electric.com www.noark-electric.eu

**Turkey** CHİNT TURCA ELEKTRİK SANAYİ VE TİCARET ANONİM ŞİRKETİ

Add: ZÜMRÜTEVLER MAHALLESİ URAL SOKAK NO:22 NAS PLAZA B BLOK KAT 1 MALTEPE / ISTANBUL Tel: 0216 621 00 55 Fax: 0216 621 00 50 Email: xiaol@chint.com www.chint.com.tr

#### **North America**

**United States** NOARK Electric (USA) Inc.

Add: 2188 Pomona Blvd., Pomona, CA 91767 Tel: 626-330-7007 Fax: 626-330-8035 E-mail: nasales@noark-electric.com na.noark-electric.com

#### West Asia & Africa

**U.A.E** CHINT West Asia & Africa FZE

Add: Office NO. LB182406, P.O.Box:263174, Jebel Ali, Dubai, United Arab Emirates Tel: 00971-48848286 Fax: 00971-48848287 E-mail: chintwaa@chint.com

## CHNT

CHINT Group Corporation Add: No. 1, CHINT Road, CHINT Industrial Zone, North Baixiang, Yueqing, Zhejiang, 325603, P.R.China Tel: +86-577-61986198 Fax: +86-577-62775769 62871811 E-mail: global-sales@chint.com Website: http://en.chint.com/

Printed on recycled paper.

#### **Spain** CHINT Electrics S.L.

Add: Calle José Echegaray, Num 8.Parque Empresarial Las Rozas Edificio 3, Planta 1º, Oficina 3.C.P: 28232 Las Rozas (Madrid) Tel: 0034 91 636 59 98 Fax: 0034 91 645 95 82 E-mail: info@chintelectrics.es

Russia ООО «Чинт Электрик»

Адрес: РФ, 115088, г. Москва, ул.Угрешская д.2, стр.33, офис 5 Тел: +74956656340 Факс: +74956656340 E-mail: cis@chint.com

#### Latin America

#### **Brazil** CHINT Electrics South America Ltd

Add: Avenida Paulista nº1765 – 2º Andar - Conjunto 22- Bairro Cerqueira Cesar-Edificio Scarpa Bela Vista-SP Sao Paulo/SP,CEP 01311 200 Tel: 0055-11-3266-7654 Fax: 0055-11-3142-9601 E-mail: chintlatinamerica@chint.com , xjie@chint.com

#### Asia Pacific

#### **China** Zhejiang CHINT Electrics Co.,Ltd

Add (Shanghai): Bldg.2, No.3255 Sixian Road, Songjiang 201614 P.R.China Tel: 0086-21-67777706 Fax: 0086-21-6777777-88225 E-mail: asiapacific@chint.com, lwgen@chint.com

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Specifications and technical data are subject to change without notice. Please contact us to confirm relevant information on ordering

# CHIT LOW VLOTAGE SWITCHGEAR



NGC8 Low Voltage Switchgear Technical Info



# CATALOG

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To comply with the trend of integrated development of modern energy, inteligent manufacturing and digital technology, CHINT has adopted One Cloud & Two Nets as the development strategy. As the carrier of intelligent technology and data application, CHINT Cloud fulfills corporate internal and external digital application and services. Relying on the Industrial Internet of Things, CHINT builds its intelligent manufacturing system and practices intdligentized application of the electrical industry; relying on the Energy Internet of Things, CHINT builds its smart energy system and explores the regional EloT mode.

Focusing on energy supply, storage, transmission, allotment and consumption system, CHINT considers new energy, energy allotment, big data and energy value-added services as core businesses, with photovoltaic equipment, energy storage, power transmission and distribution, low-voltage apparatuses, intelligent terminals, software development and control automation as pillar businesses, to develop the platform enterprise and to build the regional smart energy comprehensive operation management ecosphere, ultimately, to provide the public institutions, industry & commerce and terminal users with a package of energy solutions.

CHINT has unswervingly adhered to people-oriented and valuesharing culture with the mission of "making the electric power even safer, green, convenient and efficient'.

# WELCOME TO CHINT

#### CHINT IS A WORLD RENOWNED SMART ENERGY SOLUTION PROVIDER

CHINT has actively explored overseas markets, has established 3 research and development (R&D) centers in Europe, North America and Asia Pacific. 6 global marketing areas and manufacturing bases in Thailand, Malaysia, Egypt. Singapore and Vietnam.

CHINT has stuck to the industrial development and innovation-driving concept actively promoting the development of global R&D system. Till 2018, CHINT has won more than 4,000 patent licenses and 5,000 patent applications, on top of that CHINT leaded the formulation of 185 industrial and national standards, and won 32 national and provincial science and technology awards.

# **OVERVIEW OF NGC8 SYSTEM**

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# **INTRODUCTION OF MANUFACTURER**





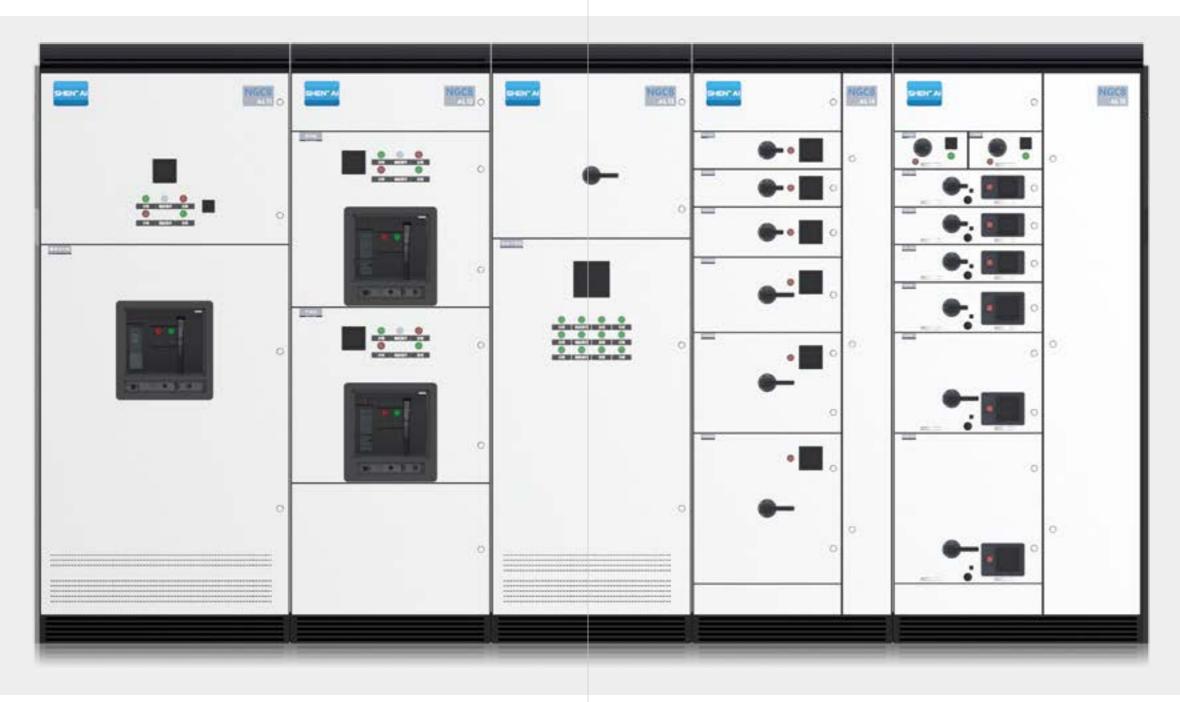
- Wenzhou 01
- EGEMAC Factory in Egypt 02
  - Sunlight Singapore 03
- Sunlight Factory in Vietnam 04

CHINT Electrical Appliance Co., Ltd. was established in August 1997, as the core holding company of CHINT Group. The company specializes in centers, production and sales of over 100 series and more than 10,000 specifications of low voltage electrical appliances, such as distribution appliances, control appliances, terminal appliances, power supply appliances and power electronics. It provides increasingly perfect system solutions for construction, power, lifting, HVAC and communications industries. Over the past 30 years, CHINT Electric Appliances has provided reliable products and services for more than 140 countries and regions.

In 2010, CHINT began to accelerate the development of overseas markets, acquiring four factories including Singapore, Malaysia, Vietnam and Egypt. Many overseas cooperative disk factories have been established, resulting in gradually empowering CHINT Electric.



# PARAMETERS OF SWITCHBOARD



	ACB Incoming Pannel	ACB Outgoing Pannel	Capacitance Pannel	Fixed Pannel	Drawer Pannel	
Installation System	Fix/Removable	Fix/Removable	Fix	Fix/Removable	Withdrawable	
Function	Incoming/Connection	Distribution/Motor	Reactive Power Compensation	Distribution/Motor	Distribution/Motor	
Rated Current(In)	Up to 6300A	Up to 3200A	500 kvar with choke and 600 kvar without choke	Up to 800A	Up to 630A	
Inlet/Outlet	TOP/Bottom	TOP/Bottom	N/A	Rear/Side	Rear/Side	
Cabinet Width(mm)	600/800/1000/1200	600/800/1000/1200	800/1000	600/1000	600/1000	
Class Level	Form 2b/3a/3b/4a/4b Type6	Form 2b/3a/3b/4a/4b Type6	Form 2b/3b	Form 3b/4b Type6	Form 3b/4b Type6	
Busbar Location	Тор	Тор	Тор	Тор	Тор	

# **TECHNICAL PARAMETER TABLE**

	ers				
Application cases		Distribution			
		Motor control			
Reference criteria	Low Voltage Switchgear and Control Equipment (TTA) Through	IEC 61439-1&2			
	Type Test	GB 7251-2013			
Test Report	National Compulsory Product Certification (CCC)	Contents of all types of tests			
	ASTA, UK New	Contents of all types of tests			
	Damp-heat tolerance	IEC 60068-2-30			
Climate tolerance	Dry-heat tolerance	IEC 60068-2-2			
	Low temperature tolerance	IEC 60068-2-1			
	Salt fog tolerance	IEC 60068-2-11			
nstallation site		Indoor			
Structural paramet	ters				
Cable access		Top/bottom			
Connection		Rear/Side			
Protection Level		To IP54 New			
solation form		To Form 4b Type6 New			
	Recommended height H	2200/2400mm			
	Recommended width W	600/800/1000/1200mm			
Dimension (mm)	Recommended depth D	600/800/1000/1200mm			
	Modulus	25mm			
	Frame	Aluminum-zinc cladding			
	Gusset plate&Installation Board for Electrical Components	Aluminum-zinc cladding			
Surface protection	Installation of crossbar	Hot dip galvanizing			
· · · · · · · · · · · · · · · · · · ·	Metal Shell	Epoxy Resin Powder Spraying > 50 μ			
	Metal Shell Color	RAL 7035/Customization			
Average weight per pane		750KG			
Electrical paramet					
Rated insulation voltage		1000V			
Rated operating voltage		400/690V			
Rated Frequency (F)		50/60Hz			
Rated impulse voltage (L	limp)	8kV			
Auxiliary Circuit Voltage	iiiip)	230V AC max			
· · ·					
Overvoltage level					
Pollution Level	- Current	3			
Horizontal Busbar Rating		Up to 6300A			
Vertical Busbar Rated Cu	I	Up to 6300A			
HBB	Rated short-term withstand current (lcw/1s)	30/50/65/85/100kA			
	Rated Peak Tolerance Current (lpk)           Rated short-term withstand current (lcw/1s)	63/105/143/187/220kA			
VBB		30/50/65/85kA			
	Rated Peak Tolerance Current (Ipk)	63/105/143/187kA			
HBB	Rated short-term withstand current (Icw/3s) New	50/65/75			
	Rated Peak Tolerance Current (Ipk)	105/145/165			
/BB	Rated short-term withstand current (Icw/3s) New	50/65/75			
	Rated Peak Tolerance Current (Ipk)	105/145/165kA			
Internal combustion arc	personal protection	690V/85kA 0.5s			
Grounding system		TT-IT-TNS-TNC			
Maximum Outgoing Swit		6300A			
Maximum motor capacit		250kW			

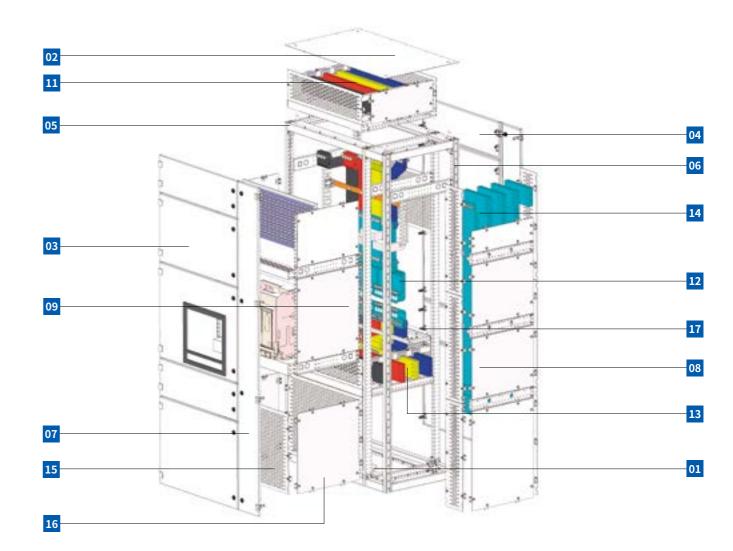
# **DESIGN VERIFICATION**

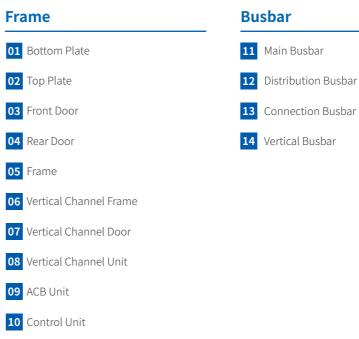
The following table provides the items required for all tests	Verification by Design Standards	Verification by Calculation	Certification Test
Strength Of Materials And Core Components		-	-
Protection Class Of Frame	$\checkmark$	-	$\checkmark$
Electrical Clearance And Creepage Distance		$\checkmark$	$\checkmark$
Protection against electric shock and integrity of protection circuit		$\checkmark$	$\checkmark$
Dielectric properties	$\checkmark$	$\checkmark$	$\checkmark$
Limit of temperature rise		$\checkmark$	$\checkmark$
Short Circuit		$\checkmark$	$\checkmark$
Mechanical operation	$\checkmark$	$\checkmark$	$\checkmark$

# **DESIGN OF NGC8 SWITCHGEAR**

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Switchgear Dimensions	13
Frame Parameters	14

# **CHARACTERISTICS OF SWITCHGEAR**





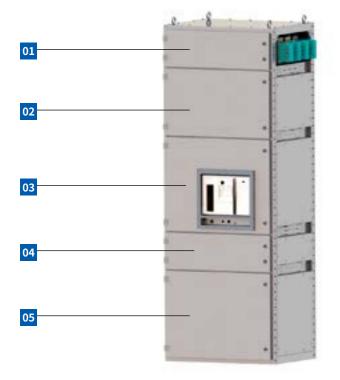
#### **Internal metal partition**

- 15 Plate for open door IP20
- 16 Partition between pannel

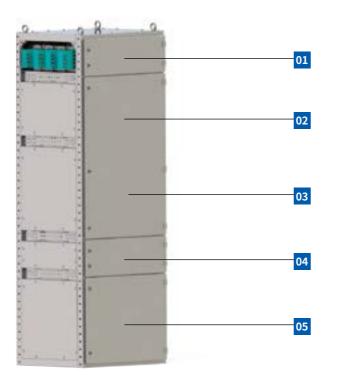


- 17 Partition between unit
- 18 Partition between control cable unit

# **FUNCTION UNIT**

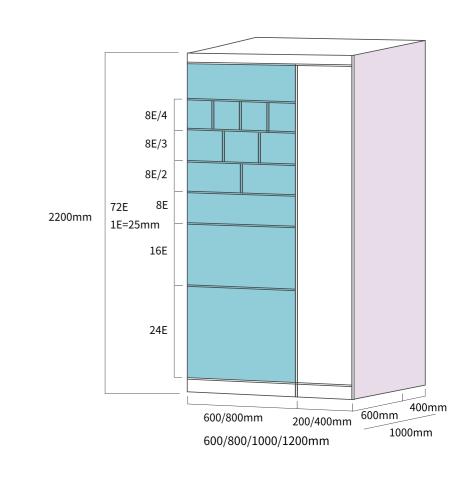


Front view of switchboard



Rear view of switchboard

#### **SWITCHGEAR DIMENSIONS**



#### 01 Main Busbar Unit

Including NGC8 busbar system, each for a single pannel. The phase is insulated by air and connected with the distribution busbar by screw.

#### **02** Control Line Unit

Contains control elements such as meters, lights, buttons, etc. Including all control loops cable Terminal used in secondary control circuit

#### **O3** Switching Unit

Containing components such as ACB or MCCB and cables or copper bars for connection The phase is insulated by air and connected by screw.

#### 04 Cable Unit

Including control cables, terminals, power cables and connecting components Cable feeding can be up or down

#### **05** Spare Unit

For Standby and Late Extension

#### **01** ACB Switchboard Size

Foundation size: W=600 or 800 mm D=600mm H=2200mm Switchboard Width Expansion Channel Size: :W=200 or 400mm D=600mm H=2200mm Switchboard Deep Expansion Channel Size: W=600 or 800 mm D=400mm H=2200mm

Through the combination of various expansion channels, different outgoing modes can be realized.

#### 02 Drawer/Fixed Switchboard Size

Foundation size: W=600 mm D=1000mm H=2200mm Outlets: Rear W=1000 mm D=600mm H=2200mm Outlets: Side Drawer Unit Size: 8E/4 3/8E 8E/2 8E 16E 24E Fixed Unit Size: 8E 12E 16E 24E

# **FRAME PARAMETERS**

#### **Frame Structure**

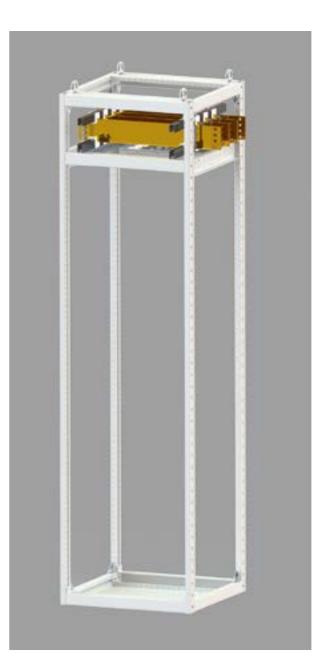
NGC8 frame is a new frame composed of C profiles with 25mm modulus holes. In NGC8, 25mm is a modular unit, denoted by 1E (=25mm). The layout of the module holes can provide an extension of different USES, with excellent user friendliness, and can meet any non-standard design requirements.

The frame and all supporting parts are used with strong selftapping screws to achieve reliable connection, the frame structure is maintenation-free, with excellent safety.

The frame and all supporting parts are made of aluminum-zinc plate with excellent corrosion resistance. Pass the 48-hour salt spray test.



### **FRAME PARAMETERS**



#### Shell Structure

The shell of NGC8 is made of cold-rolled steel plate treated by special spraying process, with customizable color and maximum strength.

The patented hinge with novel design can easily change the opening direction of the cabinet door from left to right, and the maximum opening can reach  $130^{\circ}$ .

According to the requirements of Form class, each functional unit has an independent door plate. Door plate, top plate, bottom plate and side plate are installed with self-tapping screws. Different protection grade schemes are available according to different customer requirements, up to IP54.

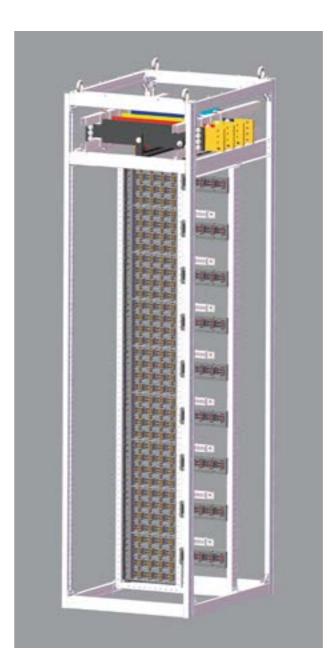
	The opening Angle of the door	Up to 130°		
Frame	Frame height	2200mm		
	IP class	Up to Ip54		
	The length of the busbar	Single cabinet width for a section		
Busbar	Rated current	Up to 6300A		
DUSDAI	Rated peak withstand current(Ipk)	Up to 220kA		
	Rated short-term withstand current(Icw)	Up to 100kA		

#### **Technical parameters**

# DESIGN OF DRAWER

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# **CHARACTERISTICS OF DRAWER**



The specifications of NGC8 drawer unit are selected according to the current level, which can be freely combined to achieve the most compact scheme of pannel. In all locations of drawer unit (work, test, disconnect), the door panel of drawer unit is closed, even if the failure can meet the higher personal security.

Drawer units are highly secure and flexible. The maintenance time is short, with few maintenance tool, and small demand of qualified personnel.

# **INTRODUCTION OF DRAWER UNIT**

# **INTRODUCTION OF DRAWER UNIT**

The drawer unit can fits the application scenario that often needs to be changed and repaired. Drawer can easily replace and repair the units needed when the equipment is running. It has high flexibility.

The size of drawer unit is designed according to different requirements, and it has compact design. A single cabinet can be equipped with up to 9 layers of 8E/4, which equals to 36 feeder circuits. The cabinet width only needs 600 mm. This modular design enables the complete cabinet to maximize the use of existing space and reduce the area occupied by the switchgear cabinet.



8E/4 Drawer Unit



8E/3 Drawer Unit



8E/3 Drawer Unit



8E Drawer Unit

The drawer of NGC8 system is operated by multi-function handle. Drawing out a drawer does not require any special tools or unlocking devices. The drawer can be moved to the test, separation and working position without opening the door. Taking into account the prevention of misoperation and personal safety of operators, drawer units can be locked separately in separate positions. It takes less than 1 minute to replace a drawer when the on-site operation process permits, and the replacement of drawers can be carried out when the equipment is live.

All drawers are locked and transformed by patented mechanical manipulators. All once and twice plug-ins can self-locate without additional tools. All position instructions are clear thanks to the mechanical operation mechanism indicator.

#### System characteristics

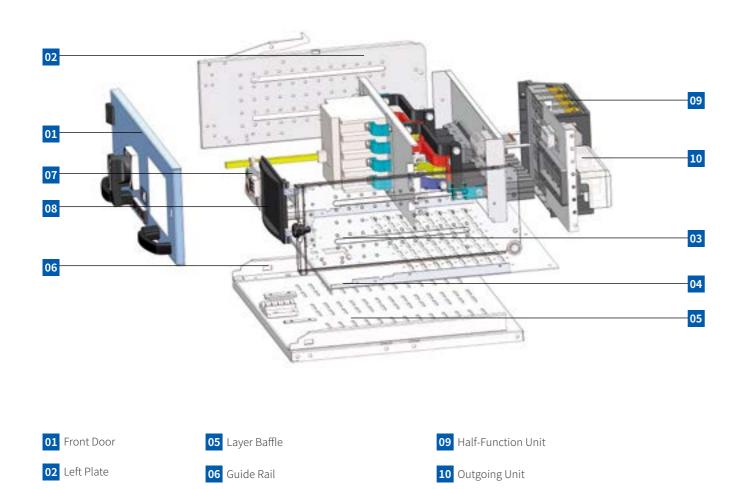
- No need to open the door for all operations.
- It takes less time to replace the module and no special tools are needed.
- The drawer unit has an independent coding system to prevent confusion with the drawer of the same specification.
- High loop density and small area

DESIGN OF DRAWER

# **CHARACTERISTICS OF 8E DRAWER**

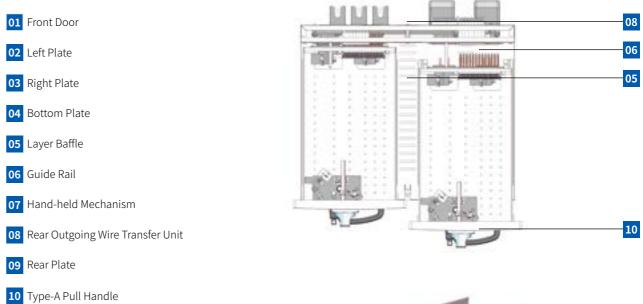
07 Hand-operated Mechanism

08 Open-type Instrument Panel





# **CHARACTERISTICS OF 8E/2 DRAWER**





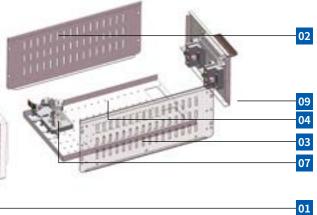


Hand-operated Mechanism

20

03 Right Plate

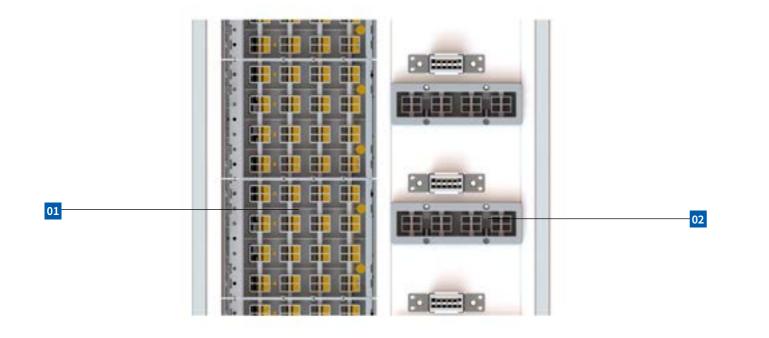
04 Bottom Plate

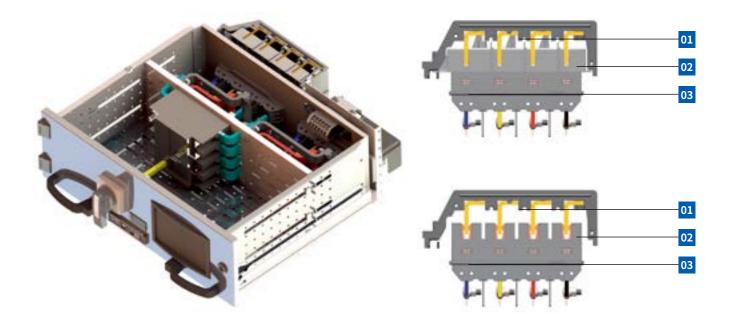




### **CHARACTERISTICS OF VERTICAL CHANNEL**

# **CHARACTERISTICS OF VERTICAL CHANNEL**





#### 01 Incoming unit

Vertical Channel

The vertical busbar of drawers is installed at the back of the pannel. The L copper bar with special technology is embedded and installed in the multi-function board, perfectly realizing the separation of main busbar and functional units.

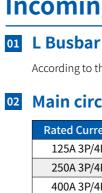
The multi-function board is made of halogen-free insulation material, which meets the requirements of flame retardant, self-extinguishing and self-extinguishing, and has good environmental friendliness. The use of insulation material makes the distribution busbar completely isolated between phases, there is no arc between phases, phase and main busbar, phase and drawer unit.

#### 02 Outgoing unit

Contains the Main circuit unmovable plug-in, Control circuit unmovable plug-in Outlets:Rear or Side The maximum out rated current up to 630A Control circuit unmovable plug-in up to 32 Lines

#### **Product features**

- Complete phase isolation to ensure good connection with distribution bus
- Contact silver plated to ensure conductivity
- Operating life up to 1000 times



#### 03 Multi-function Board

#### **Incoming Unit**

According to the actual length of use can be customized

#### <sup>02</sup> Main circuit movable plug-in

Rated Current	Incoming	Outgoing(Rear)	Outgoing(Side)
125A 3P/4P	$\checkmark$	$\checkmark$	$\checkmark$
250A 3P/4P	$\checkmark$	$\checkmark$	$\checkmark$
400A 3P/4P			$\checkmark$
630A 3P/4P	*	$\checkmark$	$\checkmark$

200mm is a free combination, up to 1800mm

# TRANSPORT AND INSTALLATION

Transport and installation 24 Installation Dimensions of Switchgear 26 Only after full assembly and successful inspection, the switchgear can be packed and transported. Packing consists of single-panel, twopanels 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 self prepared 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.

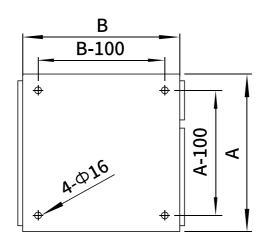
#### DANGER

Hazard of electric shock, burn or explosion

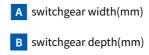
There is a risk of electric shock, scald or explosion inside and outside the equipment. Turn off all equipment before proceeding with workPower Supply.

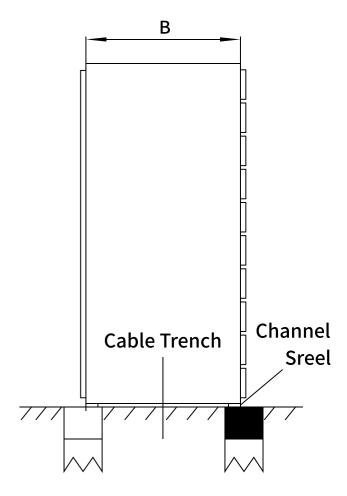
Failure to comply with these instructions will result in electric shock, serious personal injury or death!

# **INSTALLATION DIMENSIONS OF SWITCHGEAR**



#### Using bolts



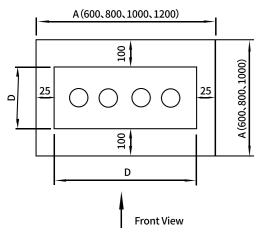


Using electric welding

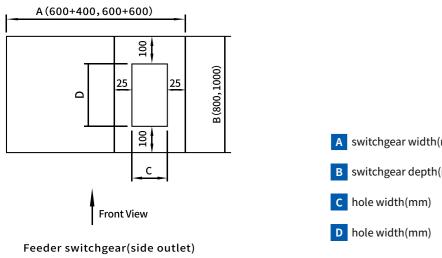
#### Notes

If the floor is not completely flat, use a wedge to block the units before fixing them.

# **INSTALLATION DIMENSIONS OF SWITCHGEAR**



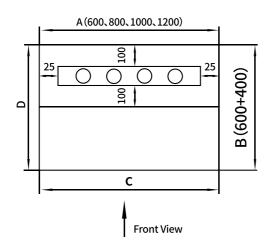
Incomeing Switchgear(raer outlet)



#### **Pre-operation check**

After switchgear installation or overhaul and before operation, the following inspections and tests should be done (Post-overhaul check may be determined in view of the overhaul nature).

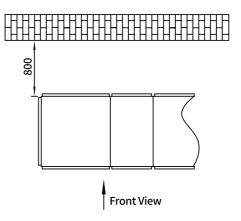
- · Check whether the switchgear internal electric devices and wiring conform to the drawing requirements, and terminals are numbered, and connection is complete and solid.
- · Check whether the installed electric devices are in good contact and conform to their technical requirement.
- · Check the reliability of mechanical and electrical interlocks.
- · Check whether the draw-out assembly is in flexible action and good contact.
- Check and test whether the switchgear earthing device is reliable with conspicuous mark.
- · Check and test whether all meters and relays act properly.



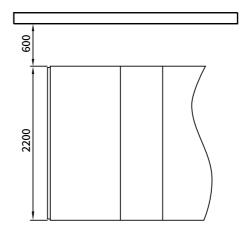
Feeder switchgear (rear outlet)

A switchgear width(mm) B switchgear depth(mm)

# **INSTALLATION DIMENSIONS OF SWITCHGEAR**

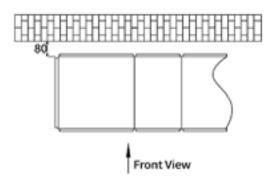


Rear outlet(top view)

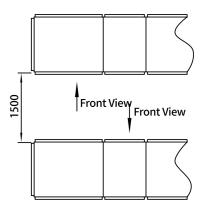


Proposed reserved space of switchgear top (site view)

Notes	Spatia
he floor is not completely flat, use a wedge to tok the units before fixing them.	<ul> <li>In case</li> <li>is ≥ 80</li> </ul>
	<ul> <li>In case the wa 80mm.</li> </ul>
	• The dis
	• Face-to



Side outlet(top view)



Switchgear face-to-face installation(top view)

#### requirements of switch room

of rear outlet, the distance of switchgear back from the wall 0mm;

of side outlet, the switchgear back can be installed against I, and thedistance of switchgear back from the wall is  $\geq$ 

tance of switchgear top from the ceiling is  $\geq$  600mm.

-face distance of switchgear front side is  $\geq$  1000mm.

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#### **COMPONENTS**

#### NA8 Air Circuit Breakers



protection and control functions.

Main Technical Parameters										
Shell grade rated current Inm(A)	16	600		2500			4000		7500	
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	N690V	N:415V	H:415V	N:690V	H:690V	H:415V	H:690V	415V	690V
Rated ultimate short circuit breaking capacity Icu (kA)	55	30	90	85	50	65	100	85	135	100
Rated service breaking capacity Ics(kA)	42	25	80	85	50	65	100	85	135	100
Rated ultimate short circuit breaking capacity lcw (kA)1s	42	25	65	85	50	65	100	85	135	100
Rated ultimate short circuit breaking capacity Icw (kA)3s	-	-	-	-	50	65	75	75	-	-

Rated current of air circuit breakers ranges from 200A to 6300A.

- They are mainly used in the distribution gird, and provide the
- There are fixed and draw-out types.
- The draw-out circuit breaker has the isolation function.
- For more information, please refer to product catalog.

# **COMPONENTS**

#### NM8N Molded Case Circuit Breaker



. . . . .

Rated current of molded case circuit breakers ranges from 16A to 1600A.

They are mainly used in the distribution gird, 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.

#### **COMPONENTS**

#### **NVF300M Series Inverter**



#### **Universal Inverter**



machinery, etc.

Main Technical Para	meters								
Shell grade rated current Inm(A)	125	250	400	630	800	1600			
Number of poles	3P/4P								
Rated insulation voltage Ui(V)		800							
Rated impulse withstand voltage(kV)		8							
Rated operational voltage Ue(V) AC 50/60Hz		690							
Rated ultimate short circuit breaking capacity Icw (kA)max	25	50	70	100	100	150			
Rated service breaking capacity (Ics=%Icu)		100							
Dimension(mm)W×H×L/3P	90×140×79	105×157×88	140×255×113	140×255×113	210×370×196	210×370×196			
Dimension(mm)W×H×L/4P	120×140×79	140×157×88	185×255×113	185×255×113	280×370×196	280×370×196			
Weight (kg)/3p	1.2	2.1	7.5	7.5	17.5	17.5			
Weight (kg)/4p	1.6	2.8	10	10	23	23			

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 frequency converter, using speed sensorless 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

For more information, please refer to product catalog.

#### **TYPICAL PERFORMANCE**

#### **TYPICAL PERFORMANCE**



**Project Name:** Zhejiang petrochemical 40 million tonsrefinery integration project

**Project Introduction:** As the main electrical equipment supplier of this project divided in four batches, CHINT electric will provide 1200 sets of low-voltage switchgear and 150 sets of medium-voltage switchgear, among which some of them have been supplied smoothly according to the delivery date.

Because the project is located in Zhoushan island area, the anticorrosion ability of the product has received higher requirements. CHINT electric designed the technical scheme together with the users, and all the switch cabinets provided by this project were specially treated to cope with the high salt fog and high humidity environment.



Project Name: Wuhan tianhe airport phase III expansion project terminal project

**Project Introduction:** Wuhan Tianhe international airport is one of the busiest airports in China. The phase III expansion project of the airport is a key project of Hubei province and Wuhan city.

The project started in June 2013 and passed the completion acceptance in June 2017. Aiming at 2020, the project is designed to meet the annual passenger throughput of 35 million, cargo and postal throughput of 440,000 tons and annual takeoff flights of 404,000.

CHINT's products for this project are NGC8 Switchgears for a total amount of \$3.53 million.



Project Name: Intercontinental Shanghai Wonderland Hotel

**Project Introduction:** CHINT participated in the construction of this special building as the hotel's power distribution equipment supplier and provided the hotel with a full set of lowvoltage power distribution equipment. As the hotel is located below the horizon, the environment is extremely special, which required high reliability and security of power distribution operation.

CHINT adopted multi-process special anti-corrosion treatment in the process, and the anti-corrosion performance of the equipment got improved by more than 50%. Through many technical innovations design, simulation analysis, optimization of the structure design. CHINT succeeded in ensuring that the equipment has a level 9 seismic capacity.

Project Name: Pudong financial plaza project

**Project Introduction:** The project covers a total land area of 48,530 square meters and a total construction area of 464,677 square meters, including three grade a office buildings, a large senior business center, a ground bus hub, a ground floor underground business, a three-floor underground parking garage and supporting equipment room. When completed, the project will become a landmark in the middle of century avenue.

# **TYPICAL PERFORMANCE**

### **TYPICAL PERFORMANCE**



**Project Name:** Indonesia ruipu 600,000 tons ferrochrome and 700,000 tons stainless steel cold

**Project Introduction:** Indonesia ruipu 600,000 tons ferrochrome (matching heat recovery coking power) and 700,000 tons stainless steel cold rolling project is a production capacity cooperation between China and Indonesia, which is highly concerned by the local government of Indonesia. The project is located in Bahodopi town, Morowali county, central sulawesi island, Indonesia, close to the nickel mining area of sulawesi mining company.



Project Name: Office expansion project of well-known software giant company

**Project Introduction:** This comp-any is located in the latest phase of Singapore Central Business district (can be described as the "new Central Business district .This Company is expanding its business in Singapore and need more power supply ; thus it is increase the electrical system for its office expansion .

Couple wit-h the Long term relationship with the Electrical contractor plus the well known "Sunlight" name for its brand image, product quality and responsive aftersales service, Sunlight was again selected for the office expansion of this world wide well known giant software company.



Project Name: AUSTRALIAN NATIONAL UNIVERSITY (AUSTRALIA)

**Project Introduction:** 4x MSB PANEL-1250A supplied to project ANU. Australian National University is a national research university located in Canberra, the capital of Australia. Its main campus in Acton encompasses seven teaching and research colleges, in addition to several national academies and institutes.

Project Name: MIM HYDRO MINING (AUSTRALIA)

**Project Introduction:** 2x MCC PANEL-4000A supplied to Project MIM HYDRO MINING under National Pump & Energy (NPE). NPE are one of Australia's leading pump, power and compressed air hire equipment specialists. It has an extensive range of pumps, generators and compressors for hire or sale including pontoon pumps, silenced pumps, generators, air compressors and associated equipment.

# **TYPICAL SCHEME**

			Contac	t Mode			Contac	t Mode	
Rated Current(A)	Mode	3	Р	4	P	3	Р	4	Р
		Width	Depth	Width	Depth	Width	Depth	Width	Depth
Primary So	chematic Diagram		よう で、 で、 で、 のの で、 て	≥ 3 2 2 2 2 2 2 7			ر بنا میر میر میر		
200	NA8-1600	600	600	600	600	600	600	600	600
400	NA8-1600	600	600	600	600	600	600	600	600
630	NA8-1600	600	600	600	600	600	600	600	600
800	NA8-1600	600	600	600	600	600	600	600	600
1000	NA8-1600	600	600	600	600	600	600	600	600
1250	NA8-1600	600	600	600	600	600	600	600	600
1600	NA8-1600	600	600	600	600	600	600	600	600
2000	NA8-2500	800	800	800	800	800	800	800	800
2500	NA8-2500	800	800	800	800	800	800	800	800
3200	NA8-3200	800	800	1000	800	800	800	1000	1000
3600	NA8-4000	800	1000	1000	1000	800	1000	1000	1000
4000	NA8-4000	800	1000	1000	1000	800	1000	1000	1000
5000	NA8-6300	1200	1000	1200	1000				
6300	NA8-6300	1200	1000	1200	1000				

		Incom	ing、Outgo	oing/Drawe	r Mode	Incoming、Outgoing/Drawer Mode				
Rated Current(A)	Mode	3	P	4	P	3	P	4	ŀΡ	
		Width	Depth	Width	Depth	Width	Depth	Width	Deptl	
Primary Sc	ary Schematic Diagram		ب لو م	€ € ₩ ₽ ₩ ₽						
200	NA8-1600	600	600	600	600	600	600	600	600	
400	NA8-1600	600	600	600	600	600	600	600	600	
630	NA8-1600	600	600	600	600	600	600	600	600	
800	NA8-1600	600	600	600	600	600	600	600	600	
1000	NA8-1600	600	600	600	600	600	600	600	600	
1250	NA8-1600	600	600	600	600	600	600	600	600	
1600	NA8-1600	600	600	600	600	600	600	600	600	
2000	NA8-2500	800	800	800	800	800	800	800	800	
2500	NA8-2500	800	800	800	800	800	800	800	800	
3200	NA8-3200	800	800	1000	800	800	800	1000	1000	
3600	NA8-4000	800	1000	1000	1000	800	1000	1000	1000	
4000	NA8-4000	800	1000	1000	1000	800	1000	1000	1000	
5000	NA8-6300	1200	1000	1200	1000					
6300	NA8-6300	1200	1000	1200	1000					

# **TYPICAL SCHEME**

		Incomi	ing、Outgo	ing/Drawe	r Mode	Incom	ing、Outgo	ing/Drawe	r Mode
Rated Current(A)	Mode	3	Р	4	Р	3	3P	4	Р
		Width	Depth	Width	Depth	Width	Depth	Width	Depth
Primary So	chematic Diagram				-				-
200	NA8-1600	600	600	800	600	600	600	800	600
400	NA8-1600	600	600	800	600	600	600	800	600
630	NA8-1600	600	600	800	600	600	600	800	600
800	NA8-1600	600	600	800	600	600	600	800	600
1000	NA8-1600	600	600	800	600	600	600	800	600
1250	NA8-1600	600	600	800	600	600	600	800	600
1600	NA8-1600	600	600	800	600	600	600	800	600
2000	NA8-2500	800	800	1000	800	800	800	1000	800
2500	NA8-2500	800	800	1000	800	800	800	1000	800
3200	NA8-3200	800	800	1000	800	800	800	1000	800
3600	NA8-4000	1000	1000	1200	1000	1000	1000	1200	1000
4000	NA8-4000	1000	1000	1200	1000	1000	1000	1200	1000

		Incom	Incoming、Outgoing/Drawer Mode				Incoming、Outgoing/Drawer Mode				
Rated Current(A)	Mode	3	Р	4	Р	3	Р	4	P		
		Height	Depth	Height	Depth	Height	Depth	Height	Deptł		
Primary Schematic Diagram			t t t t t t t t t t t t t t t t t t t								
16	NB1-63	150	450	150	450	150	450	150	450		
32	NB1-63	150	450	150	450	150	450	150	450		
63	NB1-63	150	450	150	450	150	450	150	450		
32	NM8-125	150	450	200	450	150	450	200	450		
63	NM8-125	150	450	200	450	150	450	200	450		
100	NM8-125	150	450	200	450	150	450	200	450		
125	NM8-125	150	450	200	450	150	450	200	450		
32	NM8S-125	150	450	200	450	150	450	200	450		
63	NM8S-125	150	450	200	450	150	450	200	450		
100	NM8S-125	150	450	200	450	150	450	200	450		
125	NM8S-125	150	450	200	450	150	450	200	450		
160	NM8-250 / NM8S-250S	200	450	200	450	200	450	200	450		
200	NM8-250 / NM8S-250S	200	450	200	450	200	450	200	450		
250	NM8-250 / NM8S-250S	200	450	200	450	200	450	200	450		
315	NM8-400 / NM8S-400S	400	450	400	450	400	450	400	450		
350	NM8-400 / NM8S-400S	400	450	400	450	400	450	400	450		
400	NM8-400 / NM8S-400S	400	450	400	450	400	450	400	450		
500	NM8-630 / NM8S-630S	600	450	600	450	600	450	600	450		
630	NM8-630 / NM8S-630S	600	450	600	450	600	450	600	450		

# **TYPICAL SCHEME**

Duiment Cabamatia Diagram	Power	Current	Main breaker	Contactor	Thermal over load	Height
Primary Schematic Diagram	KW	А	Mode	Mode	Mode	mm
		Dire	ect Start			
	5.5	12	NM8-125	NC1-18	N/A	200
	11	21	NM8-125	NC1-25	N/A	200
	22	43	NM8-125	NC1-50	N/A	200
F <del>TI III - X</del>	45	83	NM8-125	NC1-95	N/A	400
	55	99	NM8-125	NC2-115	N/A	400
\d	75	133	NM8-250	NC2-150	N/A	400
	90	157	NM8-250	NC2-185	N/A	400
*	110	195	NM8-250	NC2-225	N/A	400
	132	233	NM8-250	NC2-265	N/A	400
	160	280	NM8-400	NC2-330	N/A	400
	200	340	NM8-400	NC2-400	N/A	400
						-
						<u>.</u>

	Power	Current	Main breaker	Contactor	Thermal over load	Height
Primary Schematic Diagram	KW	А	Mode	Mode	Mode	mm
		Heavy	-Duty Start			
	5.5	12	NM8-125	NC1-18	NR2-25	200
	11	21	NM8-125	NC1-25	NR2-25	200
$\mathbf{k}$	22	43	NM8-125	NC1-50	NR2-93	200
J <u>∎</u> →×	45	83	NM8-125	NC1-95	NR2-93	400
	55	99	NM8-125	NC2-115	NR2-150	400
\d	75	133	NM8-250	NC2-150	NR2-150	400
	90	157	NM8-250	NC2-185	NR2-200	400
	110	195	NM8-250	NC2-225	NR2-630	400
$\bigvee$	132	233	NM8-250	NC2-265	NR2-630	400
	160	280	NM8-400	NC2-330	NR2-630	600
	200	340	NM8-400	NC2-400	NR2-630	600

# **TYPICAL SCHEME**

Duimen Cohematic Diagram	Power	Current	Main breaker	Contactor	Thermal over load	Height
Primary Schematic Diagram	KW	А	Mode	Mode	Mode	mm
		Heavy	-Duty Start		-	
	5.5	12	NM8-125	NC1-18	NR2-25	200
	11	21	NM8-125	NC1-25	NR2-25	200
	22	43	NM8-125	NC1-50	NR2-93	200
<u>ст. п. \</u> *	45	83	NM8-125	NC1-95	NR2-93	400
	55	99	NM8-125	NC2-115	NR2-150	400
\d	75	133	NM8-250	NC2-150	NR2-150	400
	90	157	NM8-250	NC2-185	NR2-200	400
	110	195	NM8-250	NC2-225	NR2-630	400
	132	233	NM8-250	NC2-265	NR2-630	400
Ĭ	160	280	NM8-400	NC2-330	NR2-630	600
	200	340	NM8-400	NC2-400	NR2-630	600

	Power	Current	Main breaker	Contactor	Thermal over load	Height
Primary Schematic Diagram	KW	A	Mode	Mode	Mode	mm
		Dire	ect Start			
	5.5	12	NM8-125	NC1-18	NR2-25	200
	11	21	NM8-125	NC1-25	NR2-25	200
*	22	43	NM8-125	NC1-50	NR2-93	200
	45	83	NM8-125	NC1-95	NR2-93	400
	55	99	NM8-125	NC2-115	NR2-150	400
\d	75	133	NM8-250	NC2-150	NR2-150	400
	90	157	NM8-250	NC2-185	NR2-200	400
	110	195	NM8-250	NC2-225	NR2-630	400
$\checkmark$	132	233	NM8-250	NC2-265	NR2-630	400
	160	280	NM8-400	NC2-330	NR2-630	600
	200	340	NM8-400	NC2-400	NR2-630	600

# **TYPICAL SCHEME**

Drimony Schomotic Discussion	Power	Current	Main breaker	Contactor	Thermal over load	Height
Primary Schematic Diagram	KW	А	Mode	Mode	Mode	mm
	D	irect Sta	art Reversibl	e		
	5.5	12	NM8-125	NC1-18	NR2-25	200
*	11	21	NM8-125	NC1-25	NR2-25	200
ſ <del>≖⊞ ∖×</del>	22	43	NM8-125	NC1-50	NR2-93	400
	45	83	NM8-125	NC1-95	NR2-93	400
	55	99	NM8-125	NC2-115	NR2-150	600
	75	133	NM8-250	NC2-150	NR2-150	600
	90	157	NM8-250	NC2-185	NR2-200	600
$\bigvee$	110	195	NM8-250	NC2-225	NR2-630	600
	132	233	NM8-250	NC2-265	NR2-630	600

	Power	Current	Main breaker	Contactor	Thermal over load	Height
Primary Schematic Diagram	KW	А	Mode	Mode	Mode	mm
	D	irect Sta	art Reversibl	le		
	5.5	12	NM8-125	NC1-18	NR2-25	200
	11	21	NM8-125	NC1-25	NR2-25	200
	22	43	NM8-125	NC1-50	NR2-93	400
	45	83	NM8-125	NC1-95	NR2-93	400
	55	99	NM8-125	NC2-115	NR2-150	600
	75	133	NM8-250	NC2-150	NR2-150	600
¥	90	157	NM8-250	NC2-185	NR2-200	600
$\bigtriangledown$	110	195	NM8-250	NC2-225	NR2-630	600
	132	233	NM8-250	NC2-265	NR2-630	600

# **TYPICAL SCHEME**

Duine au Cabauratia Dia avam	Power	Current	Main breaker	Contactor	Thermal over load	Height
Primary Schematic Diagram	KW	А	Mode	Mode	Mode	mm
	D	irect Sta	art Reversibl	e		
	5.5	12	NM8-125	NC1-18	NR2-25	200
*	11	21	NM8-125	NC1-25	NR2-25	200
<u>ſ≖⊕</u> →×	22	43	NM8-125	NC1-50	NR2-93	400
	45	83	NM8-125	NC1-95	NR2-93	400
	55	99	NM8-125	NC2-115	NR2-150	600
	75	133	NM8-250	NC2-150	NR2-150	600
	90	157	NM8-250	NC2-185	NR2-200	600
$\bigvee$	110	195	NM8-250	NC2-225	NR2-630	600
	132	233	NM8-250	NC2-265	NR2-630	600
				·		

	Power	Current	Main breaker	Contactor	Thermal over load	Height
Primary Schematic Diagram	KW	A	Mode	Mode	Mode	mm
			SS			
	5.5	12	NM8-125	NC1-18	NR2-25	200
*	11	21	NM8-125	NC1-25	NR2-25	200
F <del>T III - \</del> *	22	43	NM8-125	NC1-50	NR2-93	400
	45	83	NM8-125	NC1-95	NR2-93	400
	55	99	NM8-125	NC2-115	NR2-150	600
	75	133	NM8-250	NC2-150	NR2-150	600
	90	157	NM8-250	NC2-185	NR2-200	600
$\forall \forall$	110	195	NM8-250	NC2-225	NR2-630	600
	132	233	NM8-250	NC2-265	NR2-630	600

# **TYPICAL SCHEME**

Primary Schematic Diagram	Power	Current	Main breaker	Contactor	Thermal over load	Height
Primary Schematic Diagram	KW	А	Mode	Mode	Mode	mm
SS						
	5.5	12	NM8-125	NC1-18	NR2-25	200
$\downarrow$	11	21	NM8-125	NC1-25	NR2-25	200
FTT X	22	43	NM8-125	NC1-50	NR2-93	400
	45	83	NM8-125	NC1-95	NR2-93	400
	55	99	NM8-125	NC2-115	NR2-150	600
	75	133	NM8-250	NC2-150	NR2-150	600
	90	157	NM8-250	NC2-185	NR2-200	600
$\downarrow \downarrow$	110	195	NM8-250	NC2-225	NR2-630	600
	132	233	NM8-250	NC2-265	NR2-630	600

	Power	Current	Main breaker	Contactor	Thermal over load	Height			
Primary Schematic Diagram	KW	A	Mode	Mode	Mode	mm			
	VF								
	5.5	12	NM8-125	NC1-18	NR2-25	200			
$\Rightarrow$	11	21	NM8-125	NC1-25	NR2-25	200			
_ <del>™⊞_\</del> ×	22	43	NM8-125	NC1-50	NR2-93	400			
	45	83	NM8-125	NC1-95	NR2-93	400			
	55	99	NM8-125	NC2-115	NR2-150	600			
	75	133	NM8-250	NC2-150	NR2-150	600			
	90	157	NM8-250	NC2-185	NR2-200	600			
$\forall \forall$	110	195	NM8-250	NC2-225	NR2-630	600			
	132	233	NM8-250	NC2-265	NR2-630	600			

# **TYPICAL SCHEME**

Drimary Schematic Diagram	Power	Current	Main breaker	Contactor	Thermal over load	Height
Primary Schematic Diagram	KW	А	Mode	Mode	Mode	mm
SS						
	5.5	12	NM8-125	NC1-18	NR2-25	200
$\Diamond$	11	21	NM8-125	NC1-25	NR2-25	200
J <del>≖⊞−</del> \×	22	43	NM8-125	NC1-50	NR2-93	400
	45	83	NM8-125	NC1-95	NR2-93	400
	55	99	NM8-125	NC2-115	NR2-150	600
	75	133	NM8-250	NC2-150	NR2-150	600
	90	157	NM8-250	NC2-185	NR2-200	600
$\forall \forall$	110	195	NM8-250	NC2-225	NR2-630	600
	132	233	NM8-250	NC2-265	NR2-630	600

	Power	Current	Main breaker	Contactor	Thermal over load	Height			
Primary Schematic Diagram	KW	A	Mode	Mode	Mode	mm			
	VF								
	5.5	12	NM8-125	NC1-18	NR2-25	200			
	11	21	NM8-125	NC1-25	NR2-25	200			
FTTT X	22	43	NM8-125	NC1-50	NR2-93	400			
	45	83	NM8-125	NC1-95	NR2-93	400			
	55	99	NM8-125	NC2-115	NR2-150	600			
	75	133	NM8-250	NC2-150	NR2-150	600			
	90	157	NM8-250	NC2-185	NR2-200	600			
$\forall \forall$	110	195	NM8-250	NC2-225	NR2-630	600			
	132	233	NM8-250	NC2-265	NR2-630	600			

# **TYPICAL SCHEME**

Drimory Cabomatic Diagram	Power	Current	Main breaker	Contactor	Thermal over load	Height
Primary Schematic Diagram	KW	А	Mode	Mode	Mode	mm
VF						
	5.5	12	NM8-125	NC1-18	NR2-25	200
$\uparrow$	11	21	NM8-125	NC1-25	NR2-25	200
FIIII-X	22	43	NM8-125	NC1-50	NR2-93	400
	45	83	NM8-125	NC1-95	NR2-93	400
	55	99	NM8-125	NC2-115	NR2-150	600
	75	133	NM8-250	NC2-150	NR2-150	600
	90	157	NM8-250	NC2-185	NR2-200	600
$\forall \forall$	110	195	NM8-250	NC2-225	NR2-630	600
	132	233	NM8-250	NC2-265	NR2-630	600

	Power	Current	Main breaker	Contactor	Thermal over load	Height
Primary Schematic Diagram	KW	A	Mode	Mode	Mode	mm
			DR			
	5.5	12	NM8-125	NC1-18	NR2-25	200
	11	21	NM8-125	NC1-25	NR2-25	200
FTTTT X	22	43	NM8-125	NC1-50	NR2-93	400
	45	83	NM8-125	NC1-95	NR2-93	400
	55	99	NM8-125	NC2-115	NR2-150	600
	75	133	NM8-250	NC2-150	NR2-150	600
	90	157	NM8-250	NC2-185	NR2-200	600
$\forall \forall$	110	195	NM8-250	NC2-225	NR2-630	600
	132	233	NM8-250	NC2-265	NR2-630	600

# **TYPICAL SCHEME**

Duine and Cabanatia Dia anan	Power	Current	Main breaker	Contactor	Thermal over load	Height
Primary Schematic Diagram	KW	А	Mode	Mode	Mode	mm
			DR			
	5.5	12	NM8-125	NC1-18	NR2-25	200
*	11	21	NM8-125	NC1-25	NR2-25	200
<u>ſ≖⊞</u> →×	22	43	NM8-125	NC1-50	NR2-93	400
	45	83	NM8-125	NC1-95	NR2-93	400
	55	99	NM8-125	NC2-115	NR2-150	600
	75	133	NM8-250	NC2-150	NR2-150	600
	90	157	NM8-250	NC2-185	NR2-200	600
$\forall \forall$	110	195	NM8-250	NC2-225	NR2-630	600
	132	233	NM8-250	NC2-265	NR2-630	600

	Power	Current	Main breaker	Contactor	Thermal over load	Height			
Primary Schematic Diagram	KW	A	Mode	Mode	Mode	mm			
	Star Delta Start								
	5.5	12	NM8-125	NC1-18	NR2-25	200			
$\uparrow$	11	21	NM8-125	NC1-25	NR2-25	200			
	22	43	NM8-125	NC1-50	NR2-93	400			
	45	83	NM8-125	NC1-95	NR2-93	400			
	55	99	NM8-125	NC2-115	NR2-150	600			
	75	133	NM8-250	NC2-150	NR2-150	600			
	90	157	NM8-250	NC2-185	NR2-200	600			
$\forall \forall$	110	195	NM8-250	NC2-225	NR2-630	600			
	132	233	NM8-250	NC2-265	NR2-630	600			

# **ORDER FORM**

Project Name:				Project No.:		
Client Name:						
Name of issue:			Tel of issue:			
Designer:			Tel of designe	er:		
Date:			Checker:			
General						
LV Switchgear Type	□ NGC1	□ NGC2	□ NGC3	□ NGC8	□ NGC8-S	
Ly Switchgear Type	🗌 NGC8-R	NGG1	🗆 NGL	□ Other		
System Voltage	230V	400V	□ 690V	🗌 Other		
Cabinet Type	Drawer	□ Fixed	□ Mixed			
IP Class(Close Door)	□ IP30	□ IP31	🗌 IP40	□ IP41	□ IP42	
TP Class(Close Door)	□ IP43	□ IP54				
Form Class	Chint Standa	rd	Special Rec	Special Requirements		
Protection System	TN-S	TN-C	TN-C-S	IT IT	TT	
Installation Site	🗌 Rear site on t	he wall	Space betw	□ Space between the wall		
Color	🗌 RAL 7032		🗌 RAL 7035		Other	
Pannel Depth(mm)	600	800	1000	1200	□ Other	
IP Class(Open Door)	🗌 Chint Standa	rd	□ IP20	□ IP20		
Anti-magnetic Skeleton	🗌 Yes	🗌 No (When t	he current exceeds	s 3200A,it must be installed		
	🗌 Chint Standa	rd	🗌 Without Bo	🗌 Without Bottom Plate		
Bottom Plate	🗌 Special Requ	irements(Provide	the size of cables)	e size of cables)		
Delivery Requirement	_≤ 2.6M	□ Single	MAX	m		
ACb with mechanical interlo	ck	🗌 Yes	·	🗌 No		
Drawer Vertical Busbar	🗌 No Half funct	ion Board		□ With Half	function Board	
Heavy Loop	🗌 No	No		☐ Yes(See th	ne list of heavy loop)	
Description Tag	·			· · · · · · · · · · · · · · · · · · ·		
1)Loop&Cabinet	🗌 Chint Standa	rd	Special Req	Special Requirements		
2)Components	🗌 Chint Standa	Chint Standard		uirements		
3)Language	🗌 English		Chinese		Other	

# **ORDER FORM**

Others			
Temperature and hum	nidity controller		
Forced Cooling	🗌 Yes		
Special parts install or	n the door		
Busbar			
Phase	3		
The requirements to I	Busbar		
Bare copper	🗌 Thinning		
The colum order of the	switchgear and the diagra	m of busbar interfa	ce ha
Feeder General			
The pattern of incomi	ing/outgoing		
	C.hl	🗌 Тор	
	Cable	Bottom	
Incoming	☐ Busbar	🗌 Тор	
		Bottom	
Cables specofocation	s(Use cable)		
Phase sequence(Use	Busbar)		
Heavy Loop			F
Cabinet NO.	Loop NO.	System	

	🗌 Yes		No			
	🗌 No					
	☐ Yes		No			
	□ 4 50%N		□ 4 100%N			
	Silvering	🗌 Heat shninkabl	e Tubing			
2	have been confirne	d by the client				
		🗌 Cable	🗌 Тор			
	Outgoing		Bottom			
	outgoing	🗌 Busbar	🗌 Тор			
			Bottom			
	Further Equiment	Requirements				