

# Partner factory of Evergreen Trading Co., Ltd.

Specialized in Manufacturing of  
Low voltage equipment and wires

# Content

Background of partner factory.....	3
Low voltage.....	4 - 8
Wire & Cable.....	9-11
Meters.....	12-13
Miscellaneous.....	14

# Background of partner factory



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”

# Low Voltage (1) (Miniature Circuit Breaker-MCB)



## 1.1 Function

protection of circuits against short-circuit currents, protection of circuits against overload currents, switch, isolation.

NB1-63H circuit-breakers are used in domestic installation, as well as in commercial and industry electrical distribution systems.

## 1.2 Selection

Technical data of the network at the point considered: short-circuit current at the circuit-breaker installation point, which must always be less than the breaking capacity of this device, network normal voltage.

Tripping curves:

B curve (3-5I<sub>n</sub>)

protection for people and big length cables in TN and IT systems.

C curve (5-10I<sub>n</sub>)

protection for resistive and inductive loads with low inrush current.

D curve (10-14I<sub>n</sub>)

protection for circuits which supply loads with high inrush current at the circuit closing

(LV/LV transformers, breakdown lamps).

# Low Voltage (2) (Air Circuit Breaker)



- Frame size (A): 1600 , 2500, 4000, 7500
- Two kinds of breaking capacity: N, H (for 7500)
- Rated voltage  $U_e$  (VAC): 380/400/415, 690,
- Number of poles: 3 or 4 poles
- Mounting mode: draw-out type or fixed type
- Mode of connection: horizontal connection, vertical connection, mixed connection

# Low Voltage (3) (Moulded Case Circuit Breaker-MCCB)



## 1.General

NM8N series moulded case circuit breaker is suitable for the circuit of AC50/60Hz, with rated voltage AC690V and below, DC system rated voltage DC1000V and below, and rated current of 16A and 1600A. It can protect circuits and electric equipment against overload, short circuit or under voltage, and can also provide protection of overload, short circuit and under voltage for infrequent start of motor.

## 2.Operating Temperature:

Operating and storage temperature is  $-40^{\circ}\text{C}\sim+70^{\circ}\text{C}$ ; the average value within 24 hours does not exceed  $+35^{\circ}\text{C}$ ; when the ambient temperature is  $-40^{\circ}\text{C}\sim+70^{\circ}\text{C}$ , users need to consider derating or temperature compensation whose details can be referred to in Page

2.1 Altitude:  $\leq 2000\text{m}$ ;

2.2 Pollution grade: Grade 3;

2.3 IP grade: IP40

2.4 Air conditions:

At mounting site, relative humidity not exceed 50% at the max temperature of  $+40^{\circ}\text{C}$ , higher relative humidity is allowable under lower temperature. For example, RH could be 90% at  $+20^{\circ}\text{C}$ , special measures should be taken to occurrence of dews.

# Low Voltage (4) (Moulded Case Circuit Breaker-MCCB)



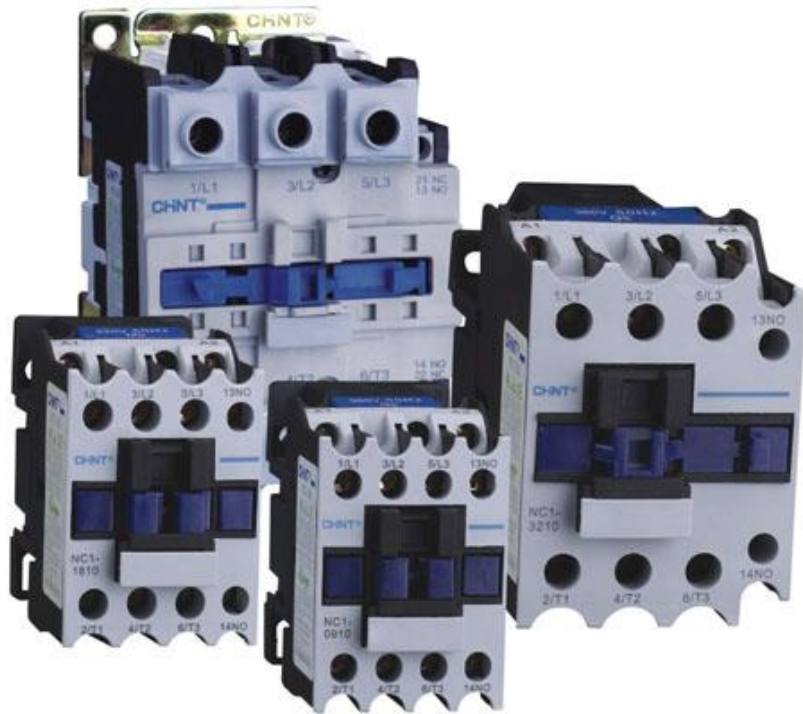
1.1 Certificates: KEMA, UKrSEPRO, EAC, RCC, EK;

1.2 Electric ratings: AC 690V, 50/60HZ, 10~1250A;

1.3 Mounting mode: Vertical and horizontal;

1.4 Standard: IEC/EN60947-2.

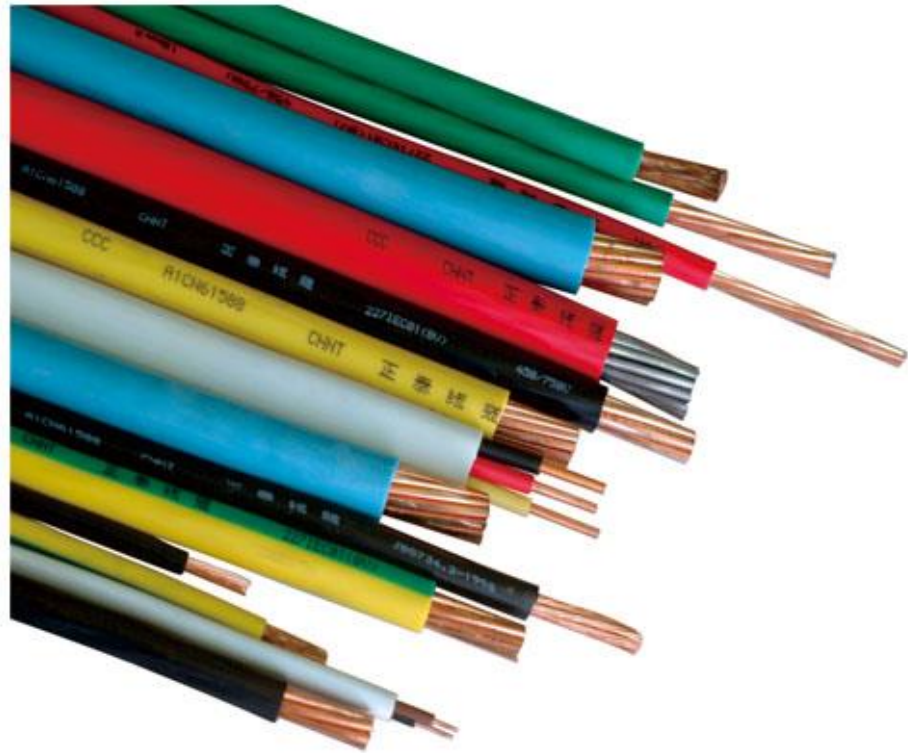
# Low Voltage (5) Contactor



- 1.1 Certificates: CE, KEMA, VDE, EK, UKrSEPRO, EAC, RCC, UL;
- 1.2 Electric ratings: AC50/60Hz, 690V, up to 95A;
- 1.3 Application: remote making & breaking circuits; protect circuit from over-load when assembling with thermal over-load relay; Frequent start-up and control of AC contactor;
- 1.4 Utilization category: AC-3, AC-4;
- 1.5 Altitude:  $\leq 2000\text{m}$ ;
- 1.6 Ambient temperature:  $-5^{\circ}\text{C} \sim +40^{\circ}\text{C}$ ;
- 1.7 Mounting category: III
- 1.8 Mounting conditions: inclination between the mounting plane and the vertical plane should not exceed  $\pm 5^{\circ}$
- 1.9 Standard: IEC/EN 60947-4-1



# Wire & Cable (1)



## 1 Executive Standards

The product is made according to GB5023.1-7-1997(equ. To IEC227)、JB8734.1-5-1998、Q/IQTF 101-2005、QJ/ZDX 0001-2006.

## 2 Brief Introduction

The product is used in power connection of household electrical appliance, small electrical tool, apparatus & meter and power lightning under AC rated voltage 450/750 kV, the mode, name and manufacturing scope refer to table 1. Besides working temperature of BV-90, RV-90 is 90°C, other cables are 70°C. Short time withstand current temperature of nylon sheath wire & cable is 121°C for long time.

# Wire & Cable (2)



## 1.1 Introduction to product

Generally, cable model selection means to choose the appropriate cable and model. Cable model specifies the cable structure of conductor, insulation, shield, sheath etc. And rated voltage; however, the specification of cable indicates the core and section area of conductor. To ensure the cable supplied by us can operate reliably for a long time in transmission line, please read the following items fully and carefully before selection the appropriate model and specifications.

## 1.2 Rated voltage $U_0/U$ and power system

Rated voltage of cable should be selected according to the features of power system. Table 1 is the requirements of cable to power network, most 35kV power networks adopt the grounding system of arc-quenching coil of B type; direct grounding system is for 110kV above and HV, extra HV power network.

# Wire & Cable (3)

## 1 Executive Standards

It is manufactured according to GB9330-88 standards  
The low-smoking low-halogen、 low-smoking halogen-free  
flame-retardant cable , it complies with GB/T19666-  
2005standards.

## 2 Application

It is used for the signal transmission controlling and  
measuring system of the electric apparatus and the power  
distribute apparatus in the field of metallurgy, power and  
petrochemistry. Its rated voltage ( $U_0/U$ ) is up to including  
450/750V.



# Meter(1) Single Phase Meter



## Reliable Choice

- ◎ Low Power Consumption
- ◎ Bi-Direction Measurement
- ◎ Optional Display

DDS666 Single phase electricity meter is designed and manufactured according to the needs of residential users. It is used to measure AC active energy with reference frequency of 50Hz and reference voltage of 220V.

## Product Features:

- ◎ Accurate measurement of import and export active energy, export active energy is accumulated by import energy.
- ◎ Compact size and simple appearance, easy to install and use.
- ◎ With infrared and RS485 communication interface (Only for LCD display electricity meter).

# Meter(2) Three Phase Meter



The meter design according to IEC or ANSI standard. It has obtained MID, KEMA, DLMS, STS certification.

Better AMI Performance

© DLMS/COSEM Protocol

© Module Design

© Flexible Payment Method

# Miscellaneous



DK238BY Electro-magnetic Switch



JD1914 Universal Relay



JD101J Power Relay

Thank you !

For the details, please contact Mr. Bill HUI

Mobile : +86 18816861374

E-mail: [huibb@evergreentrading.org](mailto:huibb@evergreentrading.org)  
[bill.hui@gmail.com](mailto:bill.hui@gmail.com)