

2009-2010
Catalogue (EN)

Low Voltage Brief Catalogue

CHINT Electric









































CHINT Low-voltage Electrical Products

Zhejiang CHINT Electrics Co., Ltd, the business unit of CHINT for Low-voltage Electrical Products, is a nationwide leader in power distribution and industrial control industry and is one of the core businesses of CHINT Group. The product lines cover low-voltage electrical products of circuit breakers, contactors, pushbuttons, switches, transformers, relays, capacitors, motor starters, etc. The company adopts an ERP system by SAP and automatic warehouse guarantee just-in-time operations and lead-time. Many of CHINT Low-voltage electrical products have been certified under important international certificates such as

CE, DNV, AENOR, KEMA, ASTA, VDE, TÜV, SEMKO, FIMKO, CCC, EK, ESC, SNI, UKrSEPRO, GOST, RCC, SLSI, SAA, UL, CSA, etc. Exquisitely manufactured and strictly tested, CHINT Low-voltage Electrical Products will meet your various demands for industrial, commercial, and residential applications on reliable operations and considerate before & after-sale services.

Chint products are certified by the following international certificates:

| | | |
|---|--------------|---|
|  | EU |  |
|  | Norway |  |
|  | Spain |  |
|  | Netherlands |  |
|  | UK |  |
|  | Germany |  |
|  | Germany |  |
|  | Sweden |  |
|  | Finland |  |
|  | China |  |
|  | Korea |  |
|  | Czech |  |
|  | Indonesia |  |
|  | Ukraine |  |
|  | Russia |  |
| RCC | South Africa |  |
|  | Sri Lanka |  |
| SAA | Australia |  |
|  | USA |  |
|  | Canada |  |

Low Voltage Brief Catalogue

| | |
|------------------------------------|---------|
| Modular Din-rail Product | Page 01 |
| MCCB | Page 20 |
| ACB | Page 22 |
| Contactor | Page 23 |
| Over-load Relay | Page 26 |
| Starter | Page 27 |
| Pilot Device | Page 29 |
| Power Relay | Page 32 |
| Capacitor | Page 34 |
| Transformer | Page 35 |
| Automatic Voltage Regulator | Page 39 |
| Switch Disconnecter | Page 41 |



NB1 Miniature Circuit Breaker



NB1

● General

- Short circuit protection
- Overload protection
- Switch
- Isolation
- Contact position indicator
- Advanced current-limit technology
- Heat dissipation gap for better cooling
- Extendable DIN-rail holder for easy installation

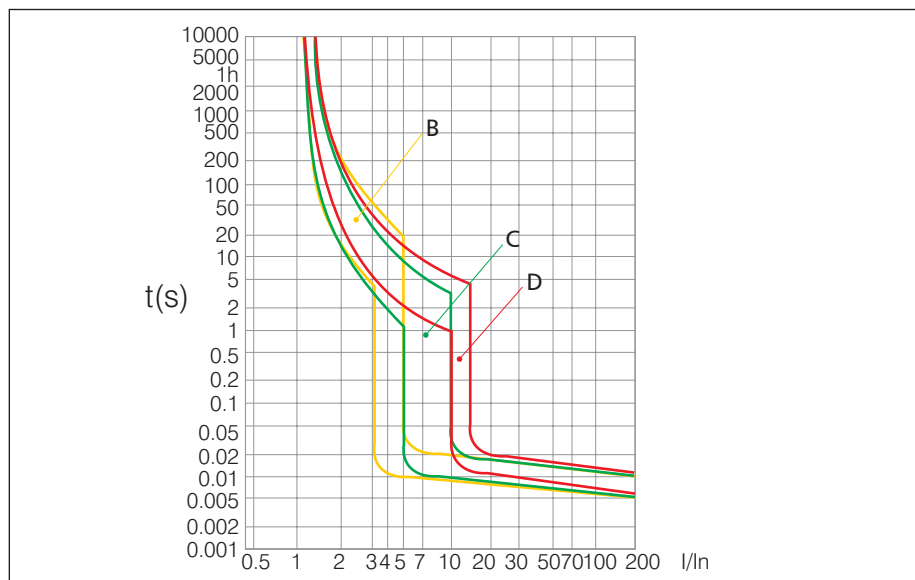
● Technical features

| Standard | | IEC/EN 60898-1 | IEC/EN 60947-2 | UL1077 | UL1077 |
|--|----|--|--------------------|----------------|---------------|
| Rated current In | A | 1, 2, 3, 4, 6, 10, 13, 16, 20, 25, 32, 40, 50, 63 | | | |
| Poles | | 1P, 1P+N, 2P, 3P, 3P+N, 4P | 1P, 2P, 3P, 4P | 1P, 2P, 3P, 4P | 1P, 2P |
| Rated voltage Ue | V | 230/400~240/415 | | 277/480 | 110/125 |
| Rated frequency | Hz | AC 50/60 | | | DC |
| Rated breaking capacity | A | 6000/10000 | 6k | 5k | 10k |
| Energy limiting class | | 3 | | | |
| Rated impulse withstand voltage(1.2/50) Uimp | V | 4000 | | | |
| Thermo-magnetic release characteristic | | B, C, D | 8-12In, 9.6-14.4In | B, C, D | 4-7In, 7-14In |
| Electrical life | | 8, 000 | | | |
| Mechanical life | | 20, 000 | | | |
| Mounting | | On DIN rail EN 60715 (35mm) by means of fast clip device | | | |
| Connection | | From top and bottom | | | |
| Auxiliary contact | | Yes | | | |
| Shunt release | | Yes | | | |
| Under voltage release | | Yes | | | |
| Alarm contact | | Yes | | | |

● Curve

IEC/EN 60898-1

B, C, D curve



CE N S SAA

eB Miniature Circuit Breaker



eB

- **General**
 - Short circuit protection
 - Overload protection
 - Switch
 - Isolation
 - Economic type breaker
 - High cost-effective

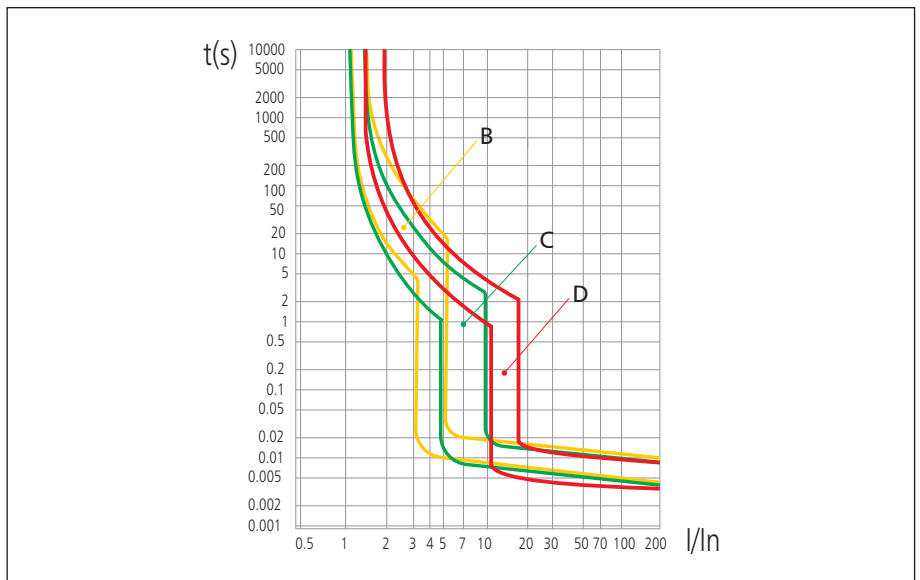
● Technical features

| Standard | | IEC/EN 60898-1 | IEC/EN 60947-2 |
|---|----|--|----------------|
| Rated current I_n | A | 1, 2, 3, 4, 6, 10, 13, 16, 20, 25, 32, 40, 50, 63 | |
| Poles | | 1P, 2P, 3P, 4P | |
| Rated voltage U_e | V | 230/400~240/415 | |
| Rated frequency | Hz | 50/60 | |
| Rated breaking capacity | A | 3000/4500 | 3k/4.5k |
| Rated impulse withstand voltage(1.2/50) U_{imp} | V | 4000 | |
| Thermo-magnetic release characteristic | | B, C, D | 8-12 I_n |
| Electrical life | | 4, 000 | |
| Mechanical life | | 10, 000 | |
| Terminal connection type | | Cable/Pin-type busbar | |
| Mounting | | On DIN rail EN 60715 (35mm) by means of fast clip device | |
| Connection | | From top and bottom | |

● Curve

IEC/EN 60898-1

B, C, D curve



CE S SAA

UB Miniature Circuit Breaker



UB

● **General**

- Short circuit protection
- Overload protection
- Switch
- Isolation
- Various wiring solutions: U-type/pin-type/Comb-type Busbar/Cable

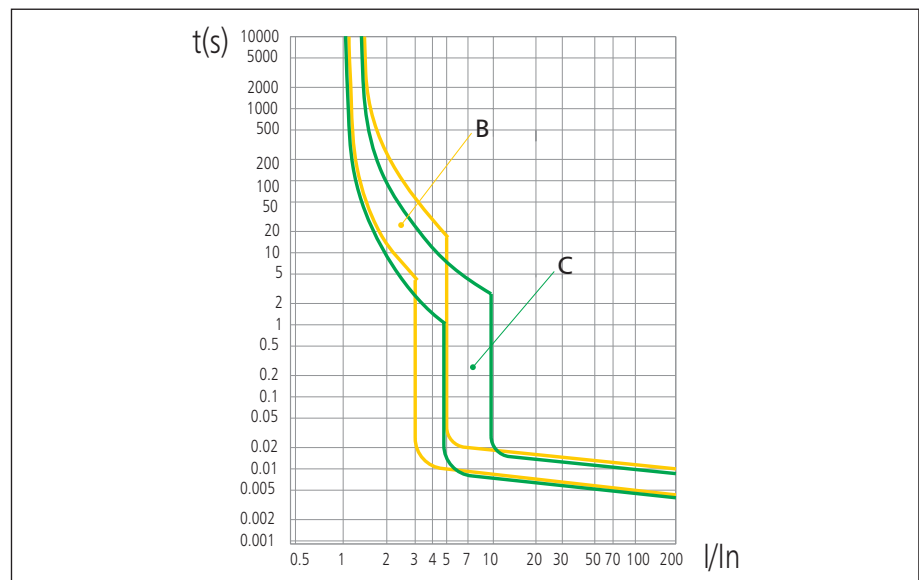
● **Technical features**

| Standard | | IEC/EN 60898-1 |
|---|----|--|
| Rated current I_n | A | 6, 10, 13, 16, 20, 25, 32, 40 |
| Poles | | 1P, 2P, 3P, 4P |
| Rated voltage U_e | V | 230/400~240/415 |
| Rated frequency | Hz | 50/60 |
| Rated breaking capacity | A | 6000 |
| Rated impulse withstand voltage(1.2/50) U_{imp} | V | 4000 |
| Thermo-magnetic release characteristic | | B, C |
| Electrical life | | 4,000 |
| Mechanical life | | 10,000 |
| Mounting | | On DIN rail EN 60715 (35mm) by means of fast dip device |
| Connection | | From top and bottom |

● **Curve**

IEC/EN 60898-1

B, C curve





DZ158 Miniature Circuit Breaker



DZ158

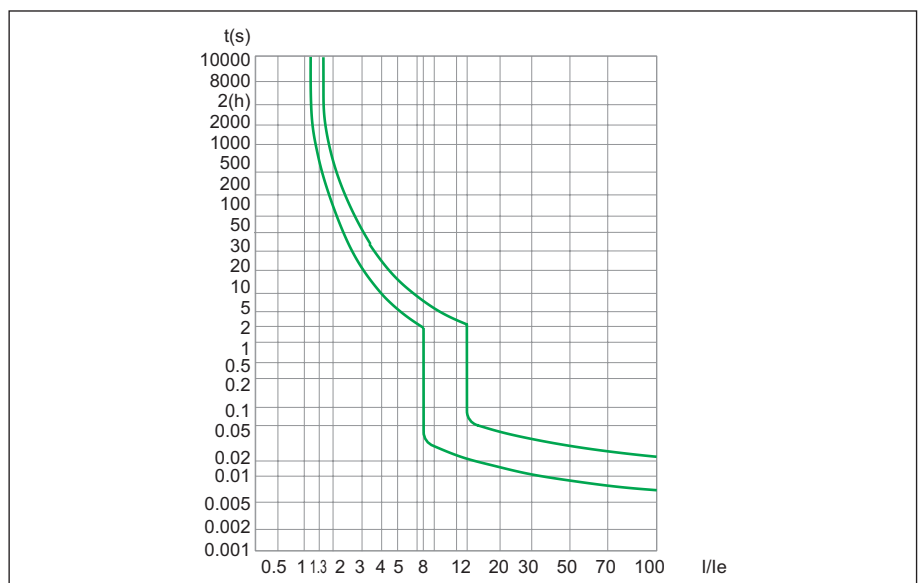
- **General**
 - Short circuit protection
 - Overload protection
 - Switch
 - Isolation
 - Contact position indicator

- **Technical features**

| Standard | | IEC/EN 60947-2 |
|---|----|--|
| Rated current I_n | A | 63, 80, 100, 125 |
| Poles | | 1P, 2P, 3P, 4P |
| Rated voltage U_e | V | 230/400~240/415 |
| Rated frequency | Hz | 50/60 |
| Rated breaking capacity | A | 6k/10k |
| Rated impulse withstand voltage(1.2/50) U_{imp} | V | 6000 |
| Thermo-magnetic release characteristic | | 8-12 I_n |
| Electrical life | | 1,500 ($I_n=63A, 80A, 100A$) 1,000 ($I_n=125A$) |
| Mechanical life | | 8,000 ($I_n=63A, 80A, 100A$) 7,000 ($I_n=125A$) |
| Mounting | | On DIN rail EN 60715 (35mm) by means of fast clip device |
| Connection | | From top |

- **Curve**

IEC/EN 60947-2





NBH8 Miniature Circuit Breaker



NBH8

● General

- Short circuit protection
- Overload protection
- Switch
- Isolation
- 1P+N in one module.
- Contact position indicator

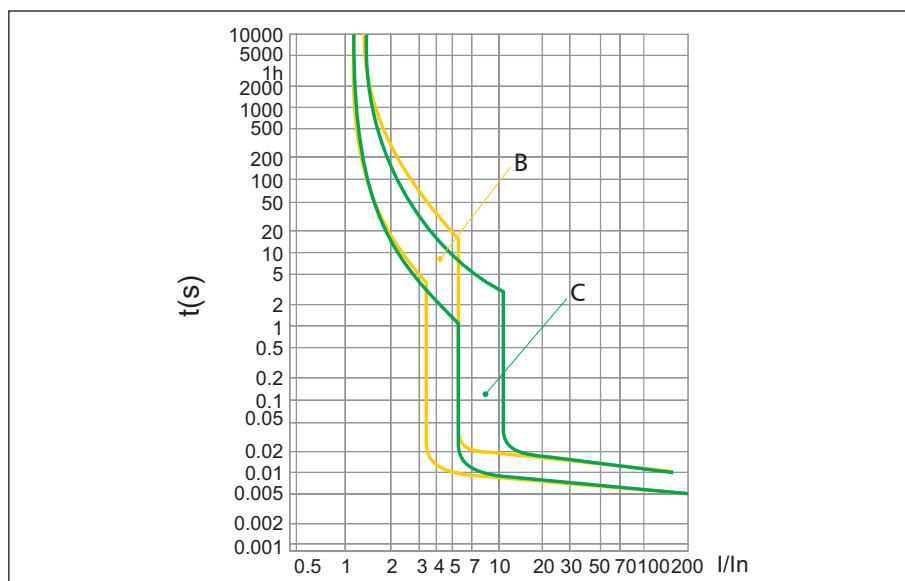
● Technical features

| Standard | | IEC/EN 60898-1 |
|--|----|---|
| Rated current In | A | 1, 2, 3, 4, 6, 10, 13, 16, 20, 25, 32, 40 |
| Poles | | 1P+N |
| Rated voltage Ue | V | 230~240 |
| Thermo-magnetic release characteristic | | B, C |
| Rated frequency | Hz | 50/60 |
| Rated breaking capacity | A | 4500/6000 |
| Rated impulse withstand voltage(1.2/50) Uimp | V | 4000 |
| Electrical life | | 4, 000 |
| Mechanical life | | 10, 000 |
| Mounting | | On DIN rail EN 60715 (35mm) by means of fast clip device |
| Terminal connection type | | Cable/Pin-type busbar |
| Auxiliary contact | | Yes |
| Shunt release | | Yes |
| Under voltage release | | Yes |
| Alarm contact | | Yes |

● Curve

IEC/EN 60898-1

B, C curve





DZ267 Miniature Circuit Breaker



DZ267

● **General**

- Short circuit protection
- Overload protection
- Switch
- Isolation
- 1P+N in one module.
- Only C curve available

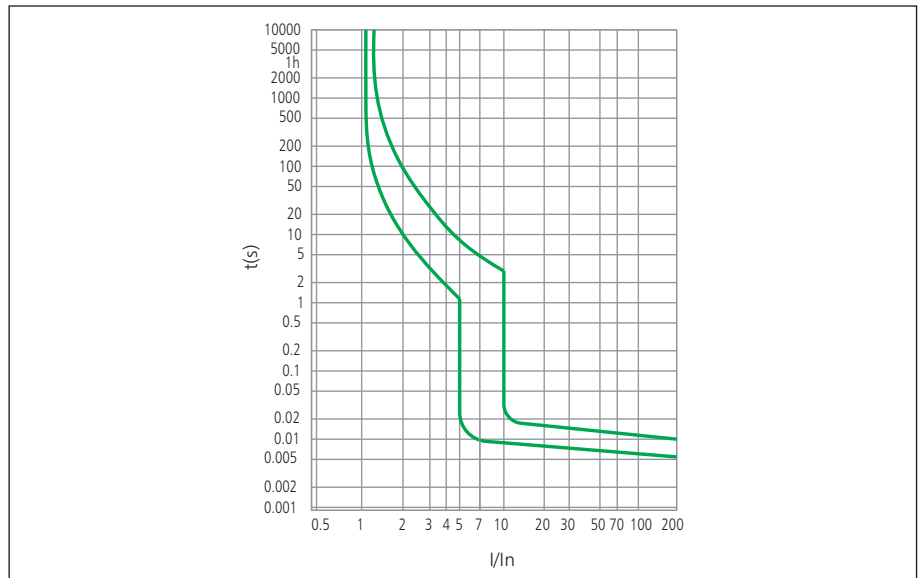
● **Technical features**

| Standard | | IEC/EN 60898-1 |
|---|----|---------------------------|
| Rated current I_n | A | 6, 10, 13, 16, 20, 25, 32 |
| Poles | | 1P+N |
| Rated voltage U_e | V | 230~240 |
| Rated frequency | Hz | 50/60 |
| Rated breaking capacity | A | 3000 |
| Rated impulse withstand voltage(1.2/50) U_{imp} | V | 4, 000 |
| Electrical life | | 4, 000 |
| Mechanical life | | 10, 000 |
| Terminal connection type | | Cable/Pin-type busbar |
| Connection | | From top |

● **Curve**

IEC/EN 60898-1

C curve





NL1 Residual Current Operated Circuit Breaker without Over-current Protection (Magnetic)



NL1

● General

- protect people against indirect contacts and additional protection against direct contacts.
- protect installations against fire hazard due to insulation faults.

● Detectable wave form

- AC Class
Tripping is ensured for slowly increasing sinusoidal AC residual currents.
- A Class
Tripping is ensured for sinusoidal AC residual currents and for pulsed DC residual currents, whether applied suddenly or increasing slowly.

● Tripping sensitivity

- 30mA - additional protection against direct contact.
- 100mA - co-ordinated with the earth system according to the formula $I\Delta n < 50/R$, to provide protection against indirect contacts;
- 300mA - protection against indirect contacts, as well as fire hazard.

● Tripping time

- Instantaneous
It ensures instantaneous tripping (without time-delay).
- Short time delay \square
It ensures any tripping at least 10ms.
- Selective \square
It ensures total discrimination with a nonselective RCCB placed downstream.

● Fault current indicator

● Technical features

| Standard | | IEC/EN 61008-1 |
|--|---|---|
| Type (wave form of the earth leakage sensed) | | AC, A, AC-G, A-G, AC-S, A-S |
| Rated current I_n | A | 25, 40, 63, 80, 100 |
| Poles | | 2P, 4P |
| Rated voltage U_e | V | 230/400~240/415 |
| Rated sensitivity $I\Delta n$ | A | 0.03, 0.1, 0.3 |
| Short-circuit current $I_{cn}=I\Delta c$ | A | 6000/10000 |
| Electrical life | | 2, 000 |
| Mechanical life | | 2, 000 |
| Terminal connection type | | Cable/U-type busbar/Pin-type busbar |
| Mounting | | On DIN rail EN 60715 (35mm) by means of fast clip device |
| Connection | | From top and bottom |



NB1L Residual Current Operated Circuit Breaker with Over-current Protection (Magnetic)



NB1L

● General

- Protection against risk of fire
- Protection against risk of electric shock
- Protection against overload
- Protection against short circuit
- Contact position indicator

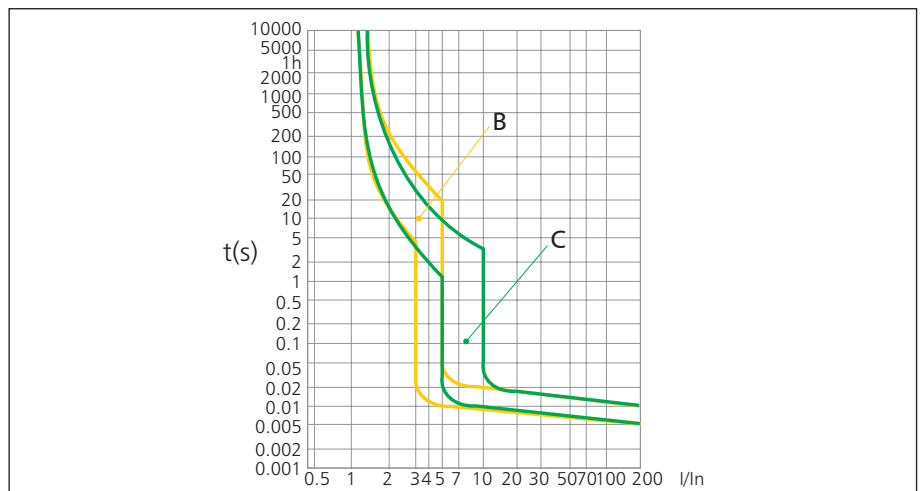
● Technical features

| Standard | IEC/EN 61009-1 | | |
|--|--|----------------------|---|
| Type (wave form of the earth leakage sensed) | AC, A | | |
| Thermo-magnetic release characteristic | B, C | | |
| Rated current I_n | A | MCB+add-on RCD block | 1, 2, 3, 4, 6, 10, 13, 16, 20, 25, 32, 40, 50, 63 |
| | | Combined | 1, 2, 3, 4, 6, 10, 13, 16, 20, 25, 32, 40 |
| Poles | | MCB+add-on RCD block | 1P+N, 2P, 3P, 3P+N, 4P |
| | | Combined | 1P+N, 2P |
| Rated voltage U_e | V | 230/400–240/415 | |
| Rated sensitivity $I_{\Delta n}$ | A | 0.03, 0.1, 0.3 | |
| Rated short-circuit capacity I_{cn} | A | 6,000/10,000 | |
| Break time under $I_{\Delta n}$ | s | ≤0.1 | |
| Electrical life | 2,000 | | |
| Mechanical life | 2,000 | | |
| Mounting | On DIN rail EN 60715 (35mm) by means of fast clip device | | |
| Connection | From top and bottom (for combined type) | | |
| | From top (MCB+add-on RCD block) | | |

● Curve

IEC/EN 61009-1

B, C curve





NB3LE Residual Current Operated Circuit Breaker with Over-current Protection (Electronic)



NB3LE

● General

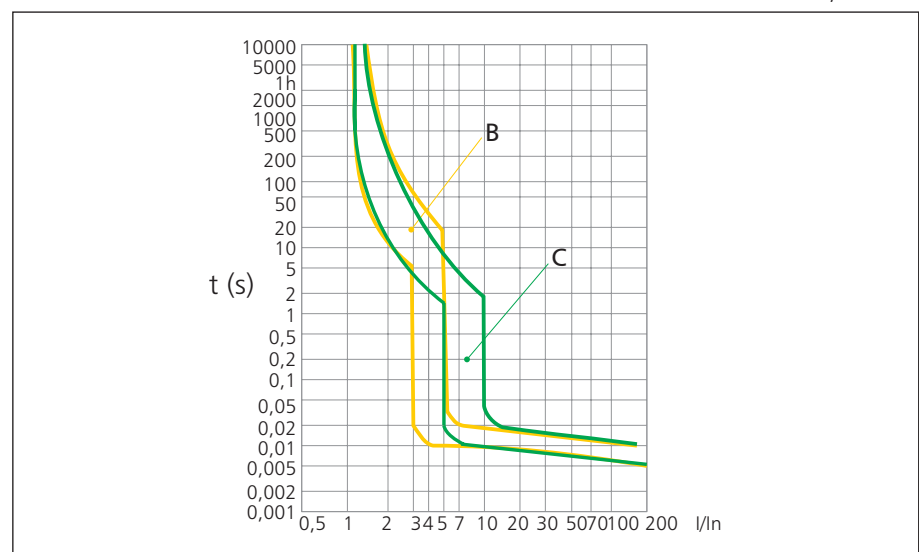
- Protection against risk of fire
- Protection against risk of electric shock
- Protection against overload
- Protection against short circuit
- 1P+N in one module
- Contact position indicator

● Technical features

| Standard | | IEC/EN 61009-1 |
|--|---|---|
| Type (wave form of the earth leakage sensed) | | AC |
| Thermo-magnetic release characteristic | | B, C |
| Rated current I _n | A | 6, 10, 16, 20, 25, 32 |
| Poles | | 1P+N |
| Rated voltage U _e | V | 240 |
| Rated sensitivity I Δ n | A | 0.03 |
| Short-circuit current I _{cn} | A | 6,000 |
| Break time under I Δ n | s | ≤0.1 |
| Electrical life | | 2, 000 |
| Mechanical life | | 2, 000 |
| Terminal connection type | | Cable/U-type busbar/Pin-type busbar |
| Mounting | | On DIN rail EN 60715 (35mm) by means of fast clip device |
| Connection | | From top |

● Curve

B, C curve





NB3LEU Residual Current Operated Circuit Breaker with Over-current Protection (Electronic)



NB3LEU

● General

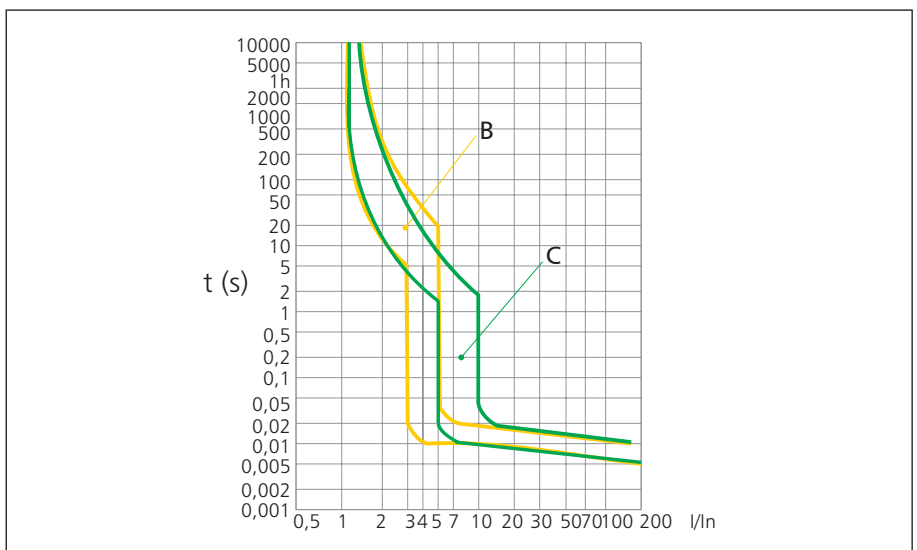
- Protection against risk of fire
- Protection against risk of electric shock
- Protection against overload
- Protection against short circuit
- 1P+N in one module
- Contact position indicator

● Technical features

| Standard | IEC/EN 61009-1 | |
|--|----------------|---|
| Type (wave form of the earth leakage sensed) | | AC |
| Thermo-magnetic release characteristic | | B, C |
| Rated current I_n | A | 6, 10, 16, 20, 25, 32,40 |
| Poles | | 1P+N |
| Rated voltage U_e | V | 240 |
| Rated sensitivity $I_{\Delta n}$ | A | 0.03 |
| Short-circuit current I_{cn} | A | 10,000 |
| Break time under $I_{\Delta n}$ | s | ≤ 0.1 |
| Electrical life | | 2, 000 |
| Mechanical life | | 2, 000 |
| Terminal connection type | | Cable/U-type busbar/Pin-type busbar |
| Mounting | | On DIN rail EN 60715 (35mm) by means of fast clip device |
| Connection | | From top |

● Curve

B, C curve





DZ47LE Residual Current Operated Circuit Breaker with Over-current Protection (Electronic)



DZ47LE

● **General**

- Protection against risk of fire
- Protection against risk of electric shock
- Protection against overload
- Protection against short circuit

● **Technical features**

| Standard | IEC/EN 61009-1 | |
|--|---|-----------------------------------|
| Type (wave form of the earth leakage sensed) | AC | |
| Thermo-magnetic release characteristic | C, D | |
| Rated current I _n | A | 6, 10, 16, 20, 25, 32, 40, 50, 60 |
| Rated voltage U _e | V | 230/400~240/415 |
| Rated sensitivity I Δ n | A | 0.03, 0.1, 0.3 |
| Short-circuit current I _{cn} | A | 4,500/6,000 |
| Electrical life | 2, 000 | |
| Mechanical life | 2, 000 | |
| Mounting | On DIN rail EN 60715 (35mm) by means of fast clip device | |
| Connection | From top | |



NBH8LE Residual Current Operated Circuit Breaker with Over-current Protection (Electronic)



NBH8LE

● **General**

- Protection against risk of fire
- Protection against risk of electric shock
- Protection against overload
- Protection against short circuit

● **Technical features**

| Standard | IEC/EN 61009-1 | |
|--|---|---------------------------------------|
| Type (wave form of the earth leakage sensed) | AC | |
| Thermo-magnetic release characteristic | C | |
| Rated current I _n | A | 1, 2, 3, 4, 6, 10, 16, 20, 25, 32, 40 |
| Poles | 1P+N | |
| Rated voltage U _e | V | 230~240 |
| Rated sensitivity I Δ n | A | 0.03 |
| Short-circuit current I _{cn} | A | 4,500 |
| Electrical life | 2, 000 | |
| Mechanical life | 2, 000 | |
| Mounting | On DIN rail EN 60715 (35mm) by means of fast clip device | |
| Connection | From top | |



DZ158LE Residual Current Operated Circuit Breaker



DZ158LE

● General

- Protection against risk of fire
- Protection against risk of electric shock
- Protection against overload
- Protection against short circuit

● Technical features

| Standard | IEC/EN 60947-2 | |
|--|----------------|---|
| Type (wave form of the earth leakage sensed) | | AC |
| Thermo-magnetic release characteristic | | 8~12In |
| Rated current In | A | 63, 80, 100 |
| Poles | | 1P+N, 2P, 3P, 3P+N, 4P |
| Rated voltage Ue | V | 230/400~240/415 |
| Rated sensitivity I Δ n | A | 0.03, 0.1, 0.3 |
| Short-circuit current Icn | A | 6,000 |
| Electrical life | | 1, 500 |
| Mechanical life | | 8,500 |
| Mounting | | On DIN rail EN 60715 (35mm) by means of fast clip device |
| Connection | | From top |



DZ267LE Residual Current Operated Circuit Breaker



DZ267LE

● General

- Protection against risk of fire
- Protection against risk of electric shock
- Protection against overload
- Protection against short circuit

● Technical features

| Standard | IEC/EN 61009-1 | |
|--|----------------|---|
| Type (wave form of the earth leakage sensed) | | AC |
| Thermo-magnetic release characteristic | | C |
| Rated current In | A | 6, 10, 16, 20, 25, 32 |
| Poles | | 1P+N |
| Rated voltage Ue | V | 230~240 |
| Rated sensitivity I Δ n | A | 0.03 |
| Short-circuit current Icn | A | 3,000 |
| Electrical life | | 2,000 |
| Mechanical life | | 4,000 |
| Mounting | | On DIN rail EN 60715 (35mm) by means of fast clip device |
| Connection | | From top |



XF9

XF9 (Auxiliary Contact for NB1, NBH8, NB1L, NB3LE, NBH8LE)

● **General**

- General: Indication of the position of the device's contacts.
- Manufactured according to IEC/EN 60947-5-1
- Rated voltage: DC 24V, 48V, 130V
AC 240V, 415V
- Configurations: 1N/O+1N/C
- Mounted on the left of the MCBs/RCBOs.



XF9J

XF9J (Alarm Auxiliary Contact for NB1, NBH8, NB1L, NB3LE, NBH8LE)

● **General**

- General: Indication of the position of the device's contacts only after the automatic release of the MCBs/RCBOs due to overload or short circuit.
- Manufactured according to IEC/EN 60947-5-1
- Rated voltage: DC 24V, 48V, 130V
AC 240V, 415V
- Configurations: 1N/O+1N/C
- Mounted on the left of the MCBs/RCBOs.



S9

S9 (Shunt Release for NB1, NBH8, NB1L, NB3LE, NBH8LE)

● **General**

- General: Remote opening of the device when a voltage is applied.
- Manufactured according to IEC/EN 60947-5-1
- Rated voltage: DC 24V, 48V
AC 24V, 230V, 400V
- Mounted on the left of the MCBs/RCBOs.



V9

V9 (Under Voltage Release for NB1, NBH8, NB1L, NB3LE, NBH8LE)

● **General**

- General: Reliable break the device in the case of a voltage drop (between 35% and 70% of its rated value)
- Manufactured according to IEC/EN 60947-5-1
- Rated voltage: AC 230V
- Mounted on the left of the MCBs/RCBOs .



AX-1

AX-1 (Auxiliary Contact for DZ158, DZ158LE)

● **General**

- General: Indication of the position of the device's contacts.
- Manufactured according to IEC/EN 60947-5-1
- Rated voltage: DC 110V
AC 400V
- Configurations: 1N/O+1N/C
- Mounted on the left of the MCBs/RCBOs.



NH2 Switch Disconnecter



NH2

- **General**
 - Isolation
 - Designed match DZ series MCBs/RCBOs
- **Technical features**
 - Manufactured according to IEC/EN 60947-3
 - Electric ratings: 32A, 63A, 100A, 230/400V, 50/60Hz
 - Rated short circuit breaking capacity: 20Ie, t=0.1s
 - Electric life: 1500
 - Mechanical life: 8500
 - Connection: From top and bottom



NH4 Switch Disconnecter



NH4

- **General**
 - Isolation
 - Designed match N series MCBs/RCBOs
- **Technical features**
 - Manufactured according to IEC/EN 60947-3
 - Electric ratings: 32A, 63A, 100A, 125A, 230/400V, 50/60Hz
 - Rated short circuit breaking capacity: 20Ie, t=0.1s
 - Electric life: 1500
 - Mechanical life: 8500
 - Connection: From top and bottom



NH9 Switch Disconnecter



NH9

- **General**
 - Isolation
- **Technical features**
 - Manufactured according to IEC/EN 60947-3
 - Electric ratings: 32A, 230/400V, 50/60Hz
 - Rated short circuit breaking capacity: 20Ie, t=0.1s
 - Electric life: 1500
 - Mechanical life: 8500
 - Connection: From top and bottom

NU6 Low-voltage Surge Arrester



NU6- I

- **General**

- Protect electric system and on-loading electrical apparatus from thunder.
- Protect electric system and on-loading electrical apparatus from instantaneous over-voltage.

- **Technical features**

- NU6- I :
- Manufactured according to IEC/EN 61643-1
- Electric ratings: 230/400V, AC50/60Hz, 3-phases
- Shock current limp peak (10/350 μs)(kA): 15kA, 25kA, 40kA
- Max. continuous operational voltage Uc(V): 275V, 320V, 385V, 440V



NU6- II

- NU6- II :
- Manufactured according to IEC/EN 61643-1
- Composed by two independent components
- With remote control port
- Electric ratings: 230/400V, AC50/60Hz, 3-phases
- Nominal discharge current (kA): 5kA, 15kA, 25kA, 40kA.
- Max. continuous operational voltage Uc (V): 275V, 320V, 385V, 460V, 510V, 550V



NU6-III

- NU6-III:
- Manufactured according to IEC/EN 61643-1
- Composed by two independent components
- With remote control port
- Electric ratings: 230/400V, AC50/60Hz, 3-phases
- Uoc (1.2/50μs)(kV): 2kV, 3kV, 4kV, 6kV, 10kV
- Max. continuous operational voltage Uc (V): 275V, 320V, 385V



NTE8 Time Relay



NTE8

- **General**

- For making or breaking the device according to setting time value

- **Technical features**

- Manufactured according to IEC/EN 60947-5-1
- Electric ratings: 5A/1A, AC230V/DC30V, 50/60Hz
- Number of contact: 1N/O
- Delay time range: from 0.1s to 480s
- Low power consumption: <1W



NP9

NP9 Pushbutton

● **General**

- For controlling electrical circuit either directly or via starters, contactors, relays etc. And pushbutton with lamp could also be used as indicator.

● **Technical features**

- Manufactured according to IEC/EN 60947-5-1
- Type: Pushbutton without illuminated lamp
 Electric ratings: 6A, 230V, AC50/60Hz
 Electric life: 100,000
 Mechanical life: 250,000
- Type: Pushbutton with illuminated lamp
 Electric ratings: 20mA, AC/DC 6.3/12/24/110/230V
 Endurance: 300,000 h
- Assembly of contact: 1N/C+2N/O, 2N/C+1N/O, 3N/O, 2N/C+2N/O
 (Not available for illuminated type)
- Mounting on Din rail (TH35-7.5)



ND9

ND9 Indicator Light

● **General**

- Indication of signal, pre-set signal, malfunction signal etc.

● **Technical features**

- Manufactured according to IEC/EN 60947-5-1
- Two types: single lamp & dual lamps
- Electric ratings: 20mA, AC/DC 6.3/12/24/110/230V
- Mounting on Din rail (TH35-7.5)



NCH8

NCH8 Modular AC Contactor

● **General**

- For controlling the household device or similar low inductive electric device

● **Technical features**

- Manufactured according to IEC/EN 61095
- Utilization category: AC-1, AC-7a, AC-7b
- Electric ratings: 20/40/63A, 230V, AC50/60Hz
- Various contact assembly are available



NX2

NX2 Consumer Unit

- **General**

- For installing the modular DIN-rail products together to control the electric system

- **Technical features**

- Manufactured according to IEC/EN 60439-3
- Electric ratings: up to 100A, 230V, AC50/60Hz
- On-load current(A): 100/1-phase, 63/3-phase
- No. of mounted units: 8, 10, 14, 18, 28, 36
- Surface mounting



NX8

NX8 Consumer Unit

- **General**

- For installing the modular DIN-rail products together to control the electric system

- **Technical features**

- Manufactured according to IEC/EN 60439-3
- Electric ratings: up to 100A, 230V, AC50/60Hz
- On-load current(A): 100/1-phase, 63/3-phase
- No. of mounted units: 5, 8, 12, 15, 20, 24
- Flush mounting



NXW1

NXW1 Consumer Unit for Outdoor Application

- **General**

- For installing the modular DIN-rail products together to control the electric system

- **Technical features**

- Manufactured according to IEC/EN 60439-3
- Electric ratings: up to 63A, 230V, AC50/60Hz
- No. of mounted units: 3, 5
- High protection degree up to IP65
- Surface mounting



NX6

NX6 Consumer Unit

● General

- For installing the modular DIN-rail products together to control the electric system

● Technical features

- Manufactured according to IEC/EN 60439-3
- Designed for single phase circuit system
- Electric ratings: 240V, AC50/60Hz
 - Max. incoming current (A): 125A
 - Max. outgoing current (A): 63A
- Protection degree: IP40
- No. of mounted units: 10, 15,17,21,23
- Surface mounting for indoor installation.



NX9

NX9 Distribution Board

● General

- For installing the modular DIN-rail products together to control the electric system

● Technical features

- Manufactured according to IEC/EN 60439-3
- Designed for three phases circuit system
 - NX9-□: Incoming DIN-rail fitted with Switch Disconnector.
 - NX9-□M: Incoming DIN-rail fitted with MCCB
- Electric ratings: 240/415V, AC50/60Hz
 - Max. incoming current (A): 200A
 - Max. outgoing current (A): 63A
- Protection degree: IP40
- No. of mounted units: 4,6,8,12,16,20
- Surface mounting for indoor installation.



JXF

JXF Wall Mounting Enclosure

● General

- For installing the modular DIN-rail products together to control the electric system

● Technical features

- Manufactured according to IEC/EN 60439-1
- Designed for three phases circuit system
- Electric ratings: 220...240/380...415V, AC50/60Hz
 - Max. incoming current (A): 630A
- Protection degree: IP54/IP65
- Surface mounting for outdoor installation.



MCB Shield

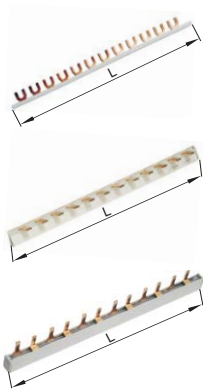
MCB Shield (For eB, NH2)

● **General**

- Guarantee MCBs' wiring safety.

● **Technical features**

- Electrical ratings: up to 63A, 230/400V, AC 50/60Hz
- Poles of mounted units: 1P, 3P

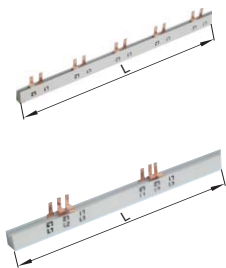


Busbar for MCB & RCD

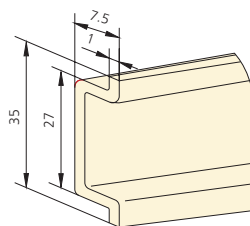
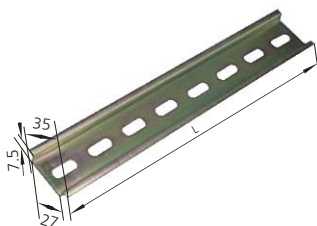
| Model | Number of poles | Cross section (mm ²) | Length L (m) |
|-----------|-----------------|----------------------------------|--------------|
| Fork Type | 1P, 2P, 3P, 4P | 12 | 1 |
| Pin Type | 1P, 2P, 3P, 4P | 12 | 1 |
| Pin Type | 1P, 2P, 3P, 4P | 16 | 1 |

Busbar for RCBO

| Model | Number of poles | Cross section (mm ²) | Length L (m) |
|-----------|-----------------|----------------------------------|--------------|
| Fork Type | 2P | 10 | 1 |
| Pin Type | 3P | 10 | 1 |



DIN rail



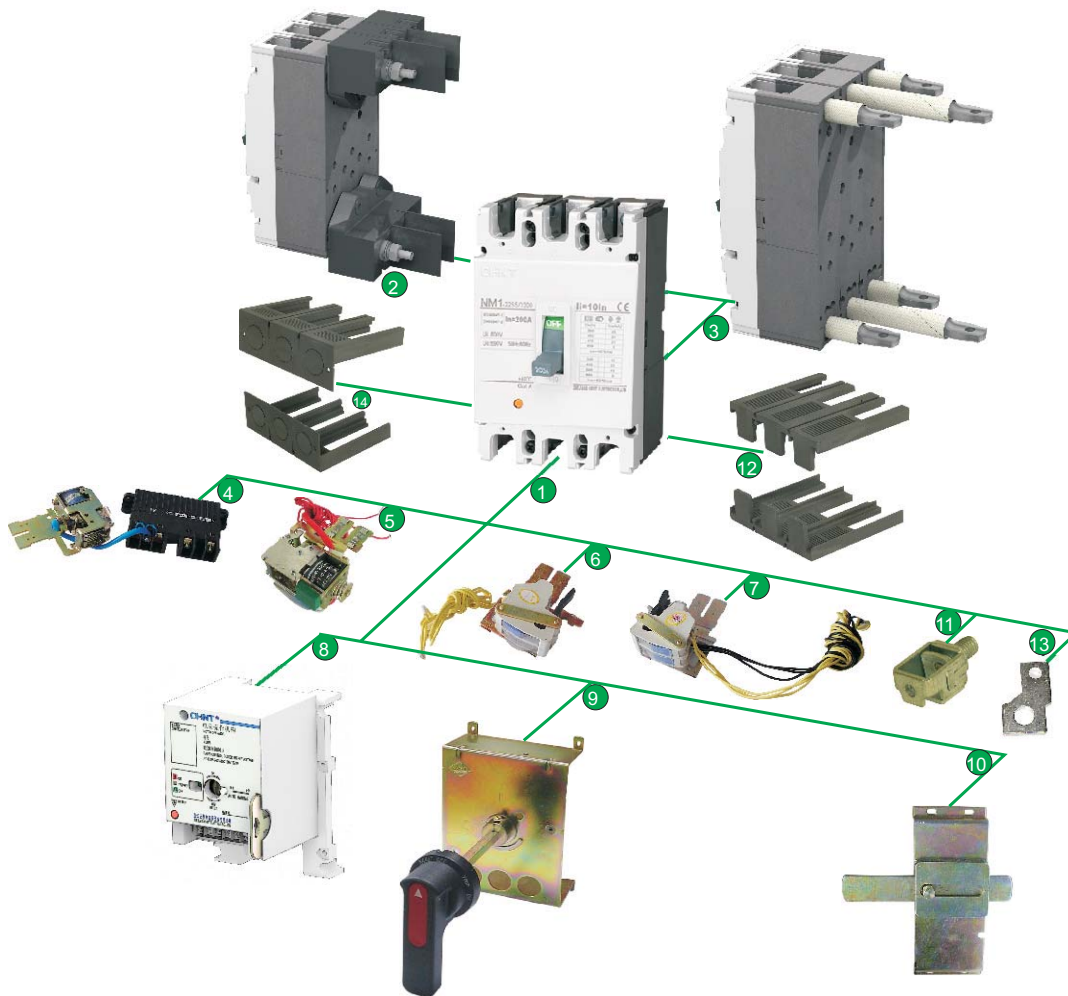
| Model | L(m) |
|----------|------|
| DIN rail | 1 |



NM1

Fixed type MCCB NM1

- Rated current from 10 to 1250A
- Employing a fixed thermal and fixed magnetic trip.
- Frames made of rigid materials of engineering plastics
- Complete range of two, three and four-pole version
- 4-class breaking capacity from 10kA to 70kA
- Vertical/horizontal installation
- Circuit breakers and auxiliaries comply with the following international standard:
 - IEC/EN 60947-1: general rules
 - IEC/EN 60947-2: circuit breakers
 - IEC/EN 60947-4.1: contactor and motor starters
 - IEC/EN 60947-5.1: and following: control circuit devices and switching elements, automatic control components.
- Certified for operation in pollution-degree III environments as defined by IEC standard 60947 (industrial environments).
- Temperature range from -5°C to +60°C
- A complete system of add-on modules for NM1



- | | | | |
|-------------------------|------------------------------------|------------------------------------|---------------------------|
| 1 MCCB (fixed type) | 5 Shunt release | 9 Extended manual operation handle | 13 Front connection plate |
| 2 Plug-in type | 6 Alarm contact | 10 Mechanical interlock | |
| 3 Rear connection | 7 Auxiliary contact | 11 Cage clamp terminal | |
| 4 Under-voltage release | 8 Motor-driven operation mechanism | 12 Short terminal cover | |

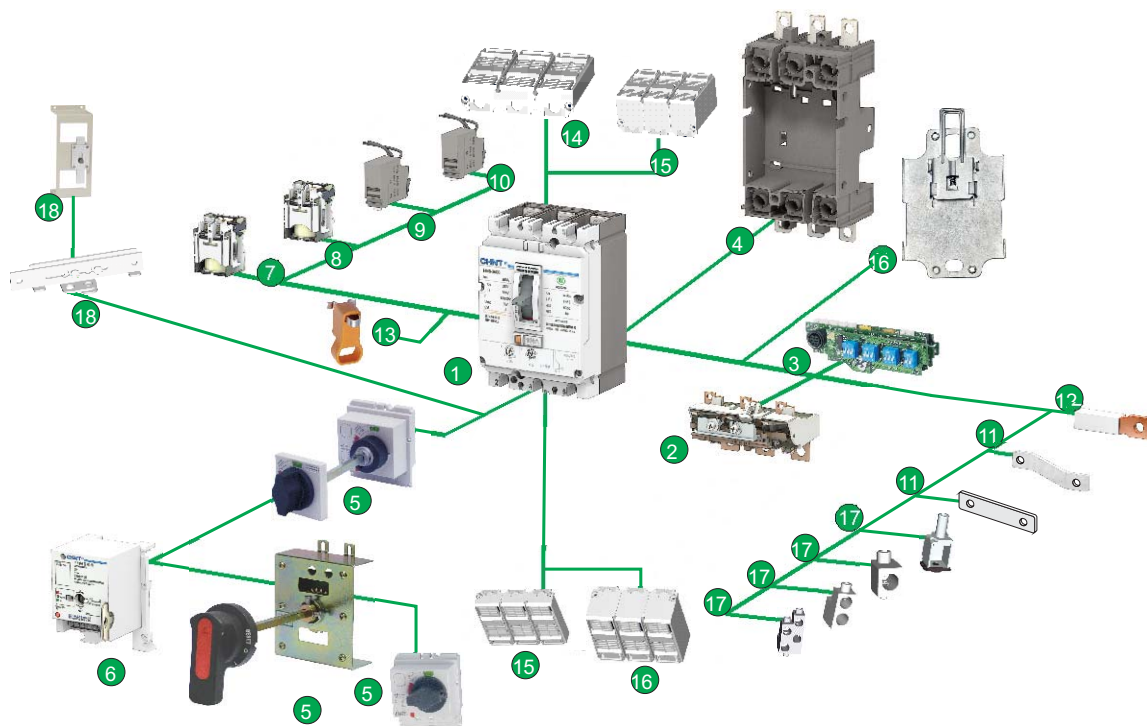


Adjustable type MCCB NM8



NM8

- Rated current from 16 to 1250A
- Thermal-magnetic type / Electronic type / Magnetic-only type
- Adjustable thermal & adjustable magnetic trip
- 2P 3P 4P available
- 3-class breaking capacity from 50kA to 150kA
- $I_{cs}=100\%I_{cu}(I_n \leq 630A)$, $I_{cs}=50\%I_{cu}(I_n > 630A)$
- Circuit breakers and auxiliaries comply with the following international standard:
 - IEC/EN 60947-1: general rules
 - IEC/EN 60947-2: circuit breakers
 - IEC/EN 60947-3: switches, disconnectors, switch-disconnectors, etc.
 - IEC/EN 60947-4: contactor and motor starters
 - IEC/EN 60947-5.1 and following: control circuit devices and switching elements, automatic control components. NM8 also comply with the specifications of the marine classification companies.
- Certified for operation in pollution-degree III environments as defined by IEC standard 60947 (industrial environments).
- Wide temperature range from -40°C to $+70^{\circ}\text{C}$
- A complete system of add-on modules for NM8



1 Body

6 Motor driven operating mechanism

11 Front connection plate

16 DIN rail adaptor

2 Thermo magnetic release

7 Under-voltage release

12 Rear connection plate

17 Cage clamp terminal

3 Electronic release

8 Shunt release

13 Locking system(padlock)

18 Mechanical interlock

4 Plug-in base

9 Alarm contact

14 Short terminal cover

5 Rotary manual operating handle

10 Auxiliary contact

15 Extended terminal cover

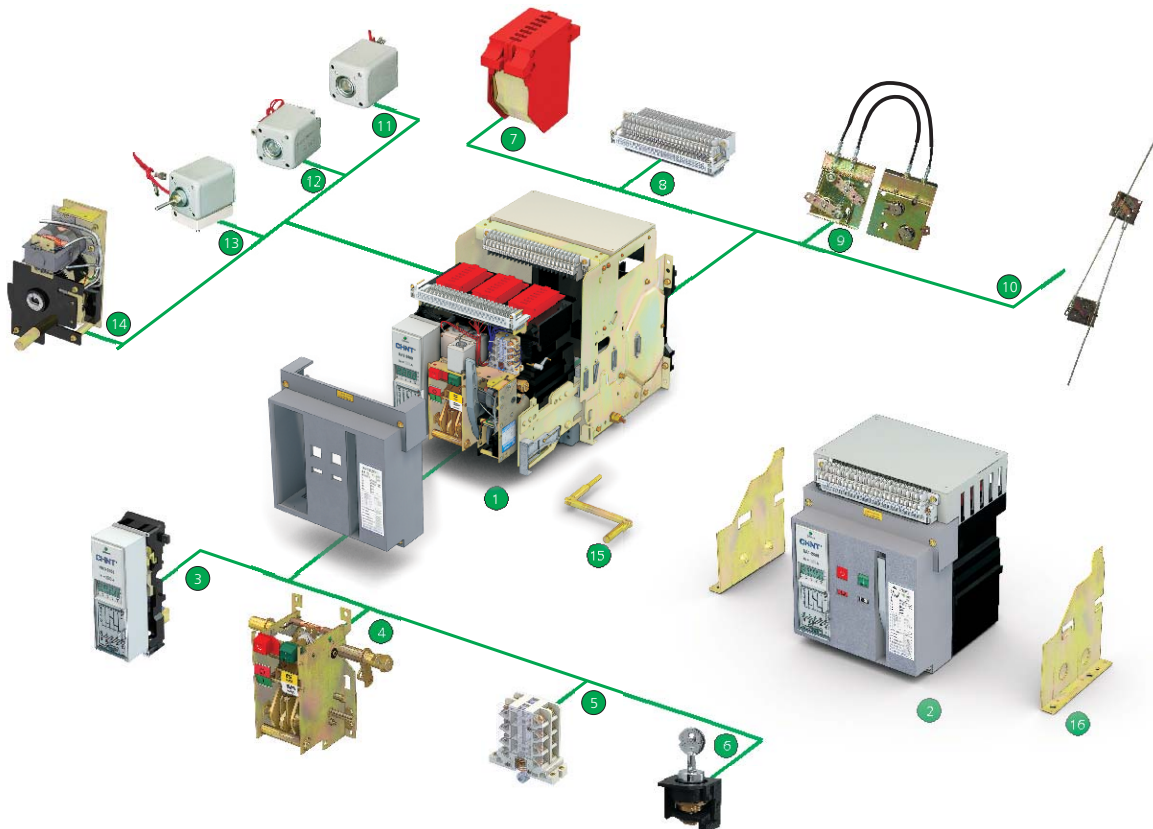


**ACB
NA1**



NA1

- Rated current from 200 to 6300A
- Modulized mechanical part and accessories
- The terminal of the control circuit on the front enables easy handling
- Minimized arc space
- 3P 4P available
- Max. breaking capacity up to 120kA at 400V
- Drawout type / fixed type
- Power supplied from either top or bottom does no reduction in performance
- Circuit breakers comply with IEC/EN 60947-2
- Certified for operation in pollution-degree III environments as defined by IEC standard 60947 (industrial environments).
- Temperature range from -5°C to +65°C
- A complete system of add-on modules for NA1



| | | | |
|--------------------------|-----------------------------|---|--|
| 1 Drawout type | 5 Auxiliary contact | 9 Wire-cable mechanical interlock | 13 Under-voltage release |
| 2 Fixed type | 6 Locking-device | 10 Connecting-rod type mechanical interlock | 14 Motor-driven energy-storage mechanism |
| 3 Intelligent controller | 7 Arcing chamber | 11 Shunt release | 15 Rotary handle |
| 4 Operating mechanism | 8 Secondary connecting part | 12 Closing electromagnet | 16 Fixed plate |



NC6

NC6 Mini Contactor

- The NC6 Series Mini Contactor is used in remote motor ($\leq 4\text{kW}$) control application.
- Rating up to 690V, 9A (AC3). ----- (06A, 09A)
- Standard: IEC/EN 60947-4-1
- Two kinds of mounting available: Normal type (without pins); Pin type (with pins)
- Ambient temp: $-5 \sim 40\text{ }^{\circ}\text{C}$
- Coil voltage (AC): 24V, 36V, 48V, 110V, 127V, 220V, 230V, 380V, 400V;
- Auxiliary contacts: NCF6-20 & NCF6-02 (2NO or 2NC)
 NCF6-13 & NCF6-31 (1NO & 3NC or 3NO & 1NC)
 NCF6-40 & NCF6-04 (4NO or 4NC)
- Assemble with Thermal overload Relay NR2-11.5 to be a DOL Starter.



NC1

NC1 Contactor

- The NC1 Series Contactor is used in remote motor ($\leq 45\text{kW}$) control application.
- Rating up to 690V, 95A (AC3). ----- (09A, 12A, 18A, 25A, 32A, 40A, 50A, 65A, 80A, 95A)
- Standard: IEC/EN 60947-4-1
- Ambient temp: $-5 \sim 40\text{ }^{\circ}\text{C}$
- Coil voltage (AC): 24V, 36V, 48V, 110V, 127V, 220V, 230V, 380V, 415V, 440V, 480V, 500V, 600V, 660V
- Coil voltage (DC): 24V, 36V, 48V, 110V, 220;
- Side mounting auxiliary contacts: NCF1-11C (1NO & 1NC)
- Top mounting auxiliary contacts: F4-20 & F4-02 (2NO & 2NC)
 F4-13 & F4-31 (1NO & 3NC or 3NO & 1NC)
 F4-40 & F4-04 (4NO or 4NC)
- Top mounting time delay block: F5-T (making time delay);
 F5-D (breaking time delay)
- Assemble with Thermal overload Relay NR2 (or NRE8) to be a DOL Starter.
- Assemble with another one & F4 & F5 & NR2 (or NRE8) to be a Star-Delta Starter called QJX2;
- Assemble with a current limiting block to be a Capacitor Contactor.
- Assemble with another one to be a reversing contactor.



NC2

NC2 Contactor

- The NC2 Series Contactor is used in remote motor ($\leq 450\text{kW}$) control application.
- Rating up to 690V, 630A (AC3). ----- (115A, 150A, 185A, 225A, 265A, 330A, 400A, 500A, 630A)
- Standard: IEC/EN 60947-4-1
- Ambient temp: $-5 \sim 40\text{ }^{\circ}\text{C}$
- Coil voltage (AC): 110V, 127V, 220V, 230V, 380V, 400V;
- Top mounting auxiliary contacts: F4-20 & F4-02 (2NO & 2NC)
 F4-13 & F4-31 (1NO & 3NC or 3NO & 1NC)
 F4-40 & F4-04 (4NO or 4NC)
- Top mounting time delay block: F5-T (making time delay);
 F5-D (breaking time delay)
- Assemble with Thermal overload Relay NR2 to be a DOL Starter.
- Assemble with another one to be a reversing contactor.



NC1-N

NC1-N Changeover & Reversal Contactor

- The NC1-N Series Changeover & Reversal Contactor is used in remote motor ($\leq 45\text{kW}$) control application.
- Rating up to 690V, 95A (AC3). ----- (09A, 12A, 18A, 25A, 32A, 40A, 50A, 65A, 80A, 95A)
- Standard: IEC/EN 60947-4-1
- Ambient temp: $-5 \sim 40\text{ }^{\circ}\text{C}$
- Coil voltage (AC): 24V, 36V, 48V, 110V, 127V, 220V, 230V, 380V, 415V, 440V, 480V, 500V, 600V, 660V



NC2-N

NC2-N Changeover & Reversal Contactor

- The NC2-N Series Changeover & Reversal Contactor is used in remote motor ($\leq 450\text{kW}$) control application.
- Rating up to 690V, 630A (AC3). ----- (115A, 150A, 185A, 225A, 265A, 330A, 400A, 500A, 630A)
- Standard: IEC/EN 60947-4-1
- Ambient temp: $-5 \sim 40\text{ }^{\circ}\text{C}$
- Coil voltage (AC): 110V, 127V, 220V, 230V, 380V, 400V



CJ19

CJ19 Capacitor Switching Contactor

- The CJ19 Series Contactor is used in remote capacitor ($\leq 50\text{kvar}$) switch application.
- Rating up to 400V, 95A (AC3). ----- (25A, 32A, 43A, 63A, 95A)
- Standard: IEC/EN 60947-4-1
- Ambient temp: $-5 \sim 40\text{ }^{\circ}\text{C}$
- Coil voltage (AC): 24V, 36V, 48V, 110V, 127V, 220V, 230V, 380V, 415V, 440V, 480V, 500V, 600V, 660V
- CJ19-25: Rating current 25A (AC3/400V);
Power of controlled capacitor $\leq 12\text{kvar}$.
- CJ19-32: Rating current 32A (AC3/400V);
Power of controlled capacitor $\leq 18\text{kvar}$.
- CJ19-43: Rating current 43A (AC3/400V);
Power of controlled capacitor $\leq 20\text{kvar}$.
- CJ19-63: Rating current 63A (AC3/400V);
Power of controlled capacitor $\leq 30\text{kvar}$.
- CJ19-95: Rating current 95A (AC3/400V);
Power of controlled capacitor $\leq 50\text{kvar}$.



NCK3

NCK3 DP Contactor

- The NCK3 Series DP Contactor is used in remote motor of air-conditioner (<60HP) control application.
- Rating up to 690V, 90A (AC3). ----- (25A, 30A, 32A, 40A, 50A, 60A, 75A, 90A)
- Standard: IEC/EN 60947-4-1
- Poles: 1P, 1P+N, 2P, 3P
- Ambient temp: -5 ~ 40 °C
- Coil voltage (AC): 24V, 110/120V, 220/240V.



NC9

NC9 Vacuum Contactor

- The NC9 Series Contactor is used in remote motor ($\leq 850\text{kW}$) control application.
- Rating up to 690V, 630A (AC3). ----- (160A, 250A, 400A, 630A, 800A, 1000A)
- Standard: IEC/EN 60947-4-1
- Ambient temp: -5 ~ 40 °C
- Coil voltage (AC): 110V, 220/230V, 380/400V.



NRE8

NRE8 Electronic Overload Relay

- The NRE8 Series Electronic Overload Relay is used in remote motor control application for overload function.
- Rating up to 690V, 630A (AC3). ----- (25A, 40A, 100A, 200A, 630A)
- Standard: IEC/EN 60947-5-1
- Ambient temp: -5 ~ 40 °C
- Assemble with Contactor NC1, NC2 to be a DOL Starter.



NR2

NR2 Thermal Overload Relay

- The NR2 Series Thermal Overload Relay is used in remote motor control application for overload function.
- Rating up to 690V, 630A (AC3). ----- (11.5A, 25A, 36A, 93A, 150A, 200A, 630A)
- Standard: IEC/EN 60947-5-1
- Ambient temp: -5 ~ 40 °C
- Assemble with Contactor NC1, NC2 to be a DOL Starter.



NS2

NS2 Manual Motor Starter

- The NS2 Series Manual Motor Starter is used in remote motor control application for overload, short circuit & phase failure.
- Rating up to 690V, 80A(AC3). ----- (0.1~1.16A, 0.16~0.25A, 0.25~0.4A, 0.4~0.63A, 0.63~1A, 1~1.6A, 1.6~2.5A, 2.5~4A, 4~6.3A, 6~10A, 9~14A, 13~18A, 17~23A, 20~25A, 16~25A, 25~40A, 40~63A, 56~80A)
- Standard: IEC/EN 60947-5-1
- Ambient temp: -5 ~ 40 °C
- Side mounting auxiliary contacts: NS2-AU20(2NO)
NS2-AU11(1NO & 1NC)
- Front mounting auxiliary contacts: NS2-AE20(2NO)
NS2-AE11(1NO & 1NC)
- Under-voltage release: NS2-UV110, NS2-UV220, NS2-UV380;
- Shunt release: NS2-SH110, NS2-SH220, NS2-SH380;
- Fault signal contact & instantaneous auxiliary contact: NS2-FA0110 (1NC & 1NO)
NS2-FA0101 (1NC & 1NC)
NS2-FA1010 (1NO & 1NO)
NS2-FA1001 (1NO & 1NC)



NQ2

NQ2 DOL Motor Starter

- The NQ2 Series DOL Motor Starter is used in remote motor ($\leq 15\text{kW}$) start & control application.
- Rating up to 400V, 32A (AC3).----- (12A, 18A, 25A, 32A)
- Standard: IEC/EN 60947-4-1
- Ambient temp: -5 ~ 40 °C
- Coil voltage (AC): 110V, 127V, 220V, 230V, 380V, 400V;
NQ2-15/1(P, N, NB): Rating current 12A (AC3),
Motor power (start & control) $\leq 5.5\text{kW}$
NQ2-15/2(P, N, NB): Rating current 18A (AC3),
Motor power (start & control) $\leq 7.5\text{kW}$
NQ2-15/3(P, N, NB): Rating current 25A (AC3),
Motor power (start & control) $\leq 11\text{kW}$
NQ2-15/4(P, N, NB): Rating current 32A (AC3),
Motor power (start & control) $\leq 15\text{kW}$
- Note: P (with pushbutton), N (reversing), NB (reversing but without thermal relay)



NQ3

NQ3 DOL Motor Starter

- The NQ3 Series DOL Motor Starter is used in remote motor ($< 11\text{kW}$) start & control application.
- Rating up to 400V, 22A (AC3). ----- (12A, 32A)
- Standard: IEC/EN 60947-4-1
- Ambient temp: -5 ~ 40 °C
- Coil voltage (AC): 110V, 127V, 220V, 230V, 380V, 400V;

NQ2-5.5P: Rating current 12A (AC3),
Motor power (start & control) $< 5.5\text{kW}$ (400V)

NQ2-11P: Rating current 32A (AC3),
Motor power (start & control) $< 11\text{kW}$ (400V)

Note: P (with pushbutton)



QJX2

QJX2 Star-delta Motor Starter

- The QJX2 Series Star-delta Motor Starter is used in remote motor ($\leq 80\text{kW}$) start & control application.
- Rating up to 400V, 95A (AC3).----- (9A, 12A, 18A, 25A, 32A, 40A, 50A, 65A, 80A, 95A)
- Standard: IEC/EN 60947-4-1
- Ambient temp: $-5 \sim 40\text{ }^\circ\text{C}$
- Coil voltage (AC): 110V, 127V, 220V, 230V, 380V, 400V;
 - QJX2-09: Rated setting current 7~10A(AC3),
 Motor power (start & control) $\leq 7.5\text{kW}$ (@400V)
 - QJX2-12: Rated setting current 9~13A(AC3),
 Motor power (start & control) $\leq 10\text{kW}$ (@400V)
 - QJX2-18: Rated setting current 12~18A(AC3),
 Motor power (start & control) $\leq 15\text{kW}$ (@400V)
 - QJX2-25: Rated setting current 17~25A(AC3),
 Motor power (start & control) $\leq 18.5\text{kW}$ (@400V)
 - QJX2-32: Rated setting current 23~32A(AC3),
 Motor power (start & control) $\leq 25\text{kW}$ (@400V)
 - QJX2-40: Rated setting current 30~40A(AC3),
 Motor power (start & control) $\leq 33\text{kW}$ (@400V)
 - QJX2-50: Rated setting current 37~50A(AC3),
 Motor power (start & control) $\leq 45\text{kW}$ (@400V)
 - QJX2-65: Rated setting current 48~65A(AC3),
 Motor power (start & control) $\leq 55\text{kW}$ (@400V)
 - QJX2-80: Rated setting current 63~80A(AC3),
 Motor power (start & control) $\leq 63\text{kW}$ (@400V)
 - QJX2-95: Rated setting current 80~93A(AC3),
 Motor power (start & control) $\leq 80\text{kW}$ (@400V)



Contactors



Time-delay block



Auxiliary contact assembly



Star-delta Motor Starter



NP2 Pilot Device



NP2

- The NP2 Series Pilot Device is used in remote circuit control and indication.
- Rating up to 230V, 4.5A (AC-15) or 110V, 0.6A (DC-13)
- Standard: IEC/EN 60947-5-1
- IP40;
- Drill plan: $\Phi 22\text{mm}$
- Electrical endurance: 500×10^3 circles for Flush & mushroom head type;
 100×10^3 circles for Flush & mushroom other head type;
- Ambient temp: $-5 \sim 40\text{ }^\circ\text{C}$
- Contact blocks: 2pcs (max);
- Illuminated: Either illuminated or Non-illuminated available.
- Button: Either Momentary or Maintained type available
- Holder: Either metal or plastic available
- Head available: Flush head, Mushroom head, selector switch, double-head switch, indicator
- Head colors available: Red Black Green Blue Yellow.



NP8 Pilot Device



NP8

- The NP8 Series Pilot Device is used in remote circuit control and indication.
- Rating up to 415V, 1.9A (AC-15) or 250V, 0.27A (DC-13)
- Standard: IEC/EN 60947-5-1
- IP54;
- Drill plan: $\Phi 22\text{mm}$
- Electrical endurance: 100×10^3 circles for Flush & mushroom head type;
 1000×10^3 circles for Flush & mushroom other head type;
- Ambient temp: $-5 \sim 40\text{ }^\circ\text{C}$
- Contact blocks: 3pcs (max);
- Illuminated: Either illuminated or Non-illuminated available.
- Button: Either Momentary or Maintained type available
- Holder: Plastic available
- Head available: Flush head, Mushroom head, selector switch, double-head switch, indicator
- Head colors available: Red Black Green Blue Yellow.



NPH1 Pushbutton Enclosure



NPH1

- The NPH1 Series Pushbutton enclosure is designed for NP8 Series Pushbutton.
- Rating up to 400V or DC230V;
- Standard: IEC/EN 60947-5-1
- IP54/40;
- Electrical endurance: 500×10^3 circles for Flush & mushroom head type;
 1000×10^3 circles for Flush & mushroom other head type;
- Ambient temp: $-5 \sim 40\text{ }^\circ\text{C}$
- Electrical endurance: 100×10^3 circles for Flush & mushroom head type;
 1000×10^3 circles for Flush & mushroom other head type.



NP3 Pendant Station



NP3

- The NP3 Series Pilot Device is used in remote circuit control.
 - Rating up to 400V (AC) or 230V (DC)
 - Standard: IEC/EN 60947-5-1
 - IP65;
 - Electrical endurance: 500×10^3 circles for Flush & mushroom head type;
 - Ambient temp: $-5 \sim 40$ °C
 - Button: Momentary type available
- NP3-1 (↑, ↓);
- NP3-1A (ON/OFF, ↑, ↓)
- NP3-1K (ON/Emergency Stop, ↑, ↓);
- NP3-2 (↑, ↓, ←, →);
- NP3-2A (ON/OFF, ↑, ↓, ←, →)
- NP3-2K (ON,/Emergency Stop, ↑, ↓, ←, →);
- NP3-3 (↑, ↓, ←, →, ↖, ↗);
- NP3-3A (ON/OFF, ↑, ↓, ←, →, ↖, ↗)
- NP3-3K (ON/Emergency Stop, ↑, ↓, ←, →, ↖, ↗);
- NP3-4 (↑, ↓, ←, →, ↖, ↗, ⊞, ⊚);
- NP3-4A (ON/OFF, ↑, ↓, ←, →, ↖, ↗, ⊞, ⊚)
- NP3-4K (ON/Emergency Stop, ↑, ↓, ←, →, ↖, ↗, ⊞, ⊚);
- NP3-4 (↑, ↓, ←, →, ↖, ↗, ⊞, ⊚, ~, ≡)

| | | | |
|---|------------|---|-----------------|
| ↑ | Up | ↓ | Down |
| ← | Left | → | Right |
| ↖ | Front | ↗ | Back |
| ⊞ | Clock-wise | ⊚ | Anti-clock wise |
| ~ | Slow | ≡ | Fast |



NP6 Pilot Device



NP6

- The NP6 Series Pilot Device is used in remote circuit control and indication.
- Rating up to 110V, 0.7A (AC-15) or 24V, 0.7A (DC-13)
- Standard: IEC/EN 60947-5-1
- IP40;
- Drill plan: $\Phi 16$ mm
- Electrical endurance: 500×10^3 circles for Flush & mushroom head type;
 100×10^3 circles for Flush & mushroom other head type;
- Ambient temp: $-5 \sim 40$ °C
- Button: Either Momentary or Maintained type available
- Head available: Flush head, Mushroom head, selector switch, indicator
- Head colors available: Red Black Green Blue Yellow.



ND16 Indicator



ND16

- The ND16 Series Indicator is used in remote indication.
 - Rating up to 400V (AC/DC)
 - Standard: IEC/EN 60947-5-1
 - IP65;
 - Drill plan: $\Phi 22\text{mm}$
 - Electrical endurance: 30×10^3 Hours
 - Ambient temp: $-5 \sim 40^\circ\text{C}$
 - Head colors available: Red Black Green Blue Yellow;
 - ND16-22A(S)/2: For AC/DC application, Flat-platform lampshade;
 - ND16-22A(S)/4: For AC application, Flat-platform lampshade;
 - ND16-22B(S)/2: For AC/DC application, Flat-round platform lampshade;
 - ND16-22B(S)/4: For AC application, Flat-round platform lampshade;
 - ND16-22C(S)/2: For AC/DC application, Arc-surface ripple lampshade;
 - ND16-22C(S)/4: For AC application, Arc-surface ripple lampshade;
 - ND16-22D(S)/2: For AC/DC application, Arc-surface round lampshade;
 - ND16-22D(S)/4: For AC application, Arc-surface round lampshade;
- Note: (S) for compact type.

NFM1 Buzzer



NFM1

- The NFM1 Series Buzzer is used in remote indication.
- Rating up to 400V (AC)
- Standard: IEC/EN 60947-5-1
- IP20;
- Drill plan: $\Phi 22\text{mm}$
- Ambient temp: $-5 \sim 40^\circ\text{C}$
- Rated operational voltage: AC110V, 230V, 400V; AC/DC: 24V,36V,48V,110V;
- 4 types of sound available: Interrupted type, Interrupted & flush type,
 - Continuous type, Continuous & lit type;
 - NFM1-22/F: Interrupted type;
 - NFM1-22/FS: Interrupted & flush type;
 - NFM1-22/L: Continuous type;
 - NFM1-22/FC: Continuous & lit type.



NJX-13FW Miniature Power Relay



NJX-13FW

- 3A, 5A, 10A switching capacity
- Max. switching voltage VAC 250, VDC 125
- Fully sealed
- Contact arrangement:
2Z=2C(10A); 2ZS=2C(5A);
3ZS=3C; 4ZS=4C



JQC-3F Sub-miniature Power Relay



JQC-3F

- 7A, 10A switching current
- Max. switching voltage VAC 250, VDC 30
- Sealed type
- Dimension: 19mm×15.5mm×15.5mm



JQX-10F Miniature Power Relay



JQX-10F

- 10A switching current
- Max. switching voltage VAC 250, VDC 125
- Various sockets available
- Wide range of coil ratings



JQX-13F Miniature Power Relay



JQX-13F

- 10A switching capacity
- Max. switching voltage VAC 250, VDC 125
- Choice of PCB and plug-in types
- Various sockets available;
- With indicator to be selected;
- Wide range of coil ratings.



JZX-22F

JZX-22F Miniature Power Relay

- 3A, 5A, 10A switching capacity
- Max. switching voltage VAC 250, VDC 125
- Various sockets available
- With indicator to be selected
- Full range of AC and DC coil
- Contact configuration: 2P=2C;3P=3C;4P=4C



JTX

JTX Miniature Power Relay

- 10A switching current
- Various sockets available
- Full range of AC and DC coil
- Contact configuration: 2C;3C



MK

MK Miniature Power Relay

- 10A switching current
- Max. switching voltage VAC 250, VDC 125
- With indicator to be selected
- Full range of AC and DC coil
- Contact configuration: 2C; 3C



BZMJ

BZMJ Series Self-healing Shunt Capacitor

- Electric ratings: \leq AC1000V;
- Application: For improvement of power factor and power quality;
- Standards: IEC/EN 60831-1:1996
- Rated capacity: 1~60kvar
- Capacity error: -5~+10%
- Filling with innoxious substance



NWC1

NWC1 Series Self-healing Shunt Capacitor

- Electric ratings: \leq AC1000V;
- Application: For improvement of power factor and power quality;
- Standards: IEC/EN 60831-1: 1996
- Rated capacity: 5~40kvar
- Capacity error: -5~+10%;
- Filling with innoxious substance



NWC5

NWC5 Series Self-healing Shunt Capacitor

- Electric ratings: \leq AC1000V;
- Application: Newly developed energy-saving product for improvement of power factor and power quality;
- Standards: IEC/EN 60831-1: 1996
- Rated capacity: 10~25kvar
- Capacity error: -5~+10%
- Filling with innoxious substance



JKF8

JKF8 Intelligent Low-voltage Reactive Power Compensation Controller

- JKF8 Intelligent Low-Voltage Reactive Power Compensation Controller (hereinafter referred to as "controller") is a dedicated controller which can make compensations for the reactive power of low voltage distribution system.
- Operation voltage: $400 \pm 10\%$



NDK



NDK Control Transformer

- Electric ratings: AC 50Hz/60Hz;
- Application: for control power supply of apparatus, partial illumination and indicator light of machine tool and other mechanic equipments.
- Standards: IEC/EN 61558.
- Maximum capacity: 5kVA



JBK5



JBK5 Series Control Transformer

- Application: JBK5 series control transformers are suitable for AC circuit of 50Hz/60Hz, used as control sources for various mechanical equipment and general electrical appliances, and used as power supplies for work lighting and signal lamps.
- Standards: IEC/EN 61558.
- Maximum capacity: 2500VA



JBK6



JBK6 Series Control Transformer

- Application: JBK6 series control transformers are suitable for AC circuit of 50Hz/60Hz, used as control sources for various mechanical equipment and general electrical appliances, and used as power supplies for work lighting and signal lamps.
- Standards: IEC/EN 61558.
- Maximum capacity: 3000VA



BH-0.66 I

BH-0.66 I Current Transformer

- For busbar and cable
- To be used in combination, with measurement instruments: ammeters, watt-hour meters, measurement units, control relays, etc.
- Max. voltage rating U_e : 660 V
- Secondary current I_{sn} : 5A
- Degree of protection: IP20
- Safety factor (fs):10
- Standards: IEC/EN 60044-1



BH-0.66 II

BH-0.66 II Current Transformer

- For busbar
- To be used in combination with measurement instruments: ammeters, watt-hour meters, measurement units, control relays, etc.
- Max. voltage rating U_e : 660 V
- Secondary current I_{sn} : 5A
- Degree of protection: IP20
- Safety factor (fs): 10
- Standards: IEC/EN 60044-1



BH-0.66 III

BH-0.66 III Current Transformer

- For busbar and cable
- To be used in combination with measurement instruments: ammeters, watt-hour meters, measurement units, control relays, etc.
- Max. voltage rating U_e : 660 V
- Secondary current I_{sn} : 5A
- Degree of protection: IP20
- Safety factor (fs): 10
- Standards: IEC/EN 60044-1



RCT

RCT Current Transformer

- To be used in combination with measurement instruments: ammeters, watt-hour meters, measurement units, control relays, etc.
- Max. voltage rating U_e : 660 V
- Secondary current I_{sn} : 5A
- Degree of protection: IP20
- Safety factor (f_s): 10
- Standards: IEC/EN 60044-1



MES

MES Current Transformer

- To be used in combination with measurement instruments: ammeters, watt-hour meters, measurement units, control relays, etc.
- Max. voltage rating U_e : 660 V
- Secondary current I_{sn} : 5A
- Degree of protection: IP20
- Safety factor (f_s): 10
- Standards: IEC/EN 60044-1



JDZ

JDZ Potential Transformer

- Adopting the value of voltage on the primary to the characteristics of metering or protection devices by supplying a secondary voltage that is proportional and lower;
- Used in combination with measurement instruments: ammeters, watt-hour meters, measurement units, control relays, etc.
- Max. voltage rating U_e : 1.14kV
- Standards: IEC/EN 60044-2



JDG4-0.5

JDG4-0.5 Potential Transformer

- Adopting the value of voltage on the primary to the characteristics of metering or protection devices by supplying a secondary voltage that is proportional and lower;
- Used in combination with measurement instruments: ammeters, watt-hour meters, measurement units, control relays, etc.
- Max. voltage rating U_e : 0.5kV
- Standards: IEC/EN 60044-2



TDGC2, TDGC2J
TSGC2, TSGC2J

TDGC2, TDGC2J Single-phase Contact Voltage Regulator TSGC2, TSGC2J Three-phase Contact Voltage Regulator

- TDGC2, TDGC2J, TSGC2, TSGC2J type contact voltage regulators are of dry type and self-cooling automatic coupling mode, can be widely applied to industries (metallurgy, chemical, instruments and meters, electromechanical manufacturing, light industry, etc.), scientific experiments, public facilities, household electrical appliances and so on to realize voltage regulation, temperature control, light adjustment, powercontrol, etc.
- Standards: IEC/EN 61558.
- Rated capacity: 0.2 KVA-60KVA
- Rated output current: 0.8A-80A



TND/TNS(SVC)

TND (SVC) Single-phase Automatic Voltage Regulator TNS (SVC) Three-phase Automatic Voltage Regulator

- TND/TNS(SVC) series full-automatic AC voltage regulator collects sample and amplifies it and automatically control circuit, and drives the servomotor to rotate the rocker arm and brush in required direction, and finally adjusts the output voltage to the rated value, finally reaches the aim of stabilizing the voltage.
- Elegant appearance, compact structure, light weight, low power waste, complete protection functions, stable and reliable, low output waveform distortion and so on.
- Rated capacity: 0.5 kVA~60kVA



TND2

TND2 Series Single-phase Automatic Voltage Regulator

- When the main voltage is unstable or when the load changes, the AVR will automatically sample and amplify the control circuit.
- This type of voltage stabilizer has advantages of elegant appearance, compact structure, thin thickness, light weight, low power waste, stable and reliable, low output waveform distortion and so on.
- Rated capacity: 0.5 kVA~5kVA



DBW/SBW

DBW Single-phase Automatic Voltage Regulator SBW Three-phase Automatic Voltage Regulator

- Used in the application requiring stable voltage, such as telecommunication, broadcasting & TV, elevator, silicone controlled apparatus, numerical control machine tool, and various production lines, etc.
- Rated capacity: 20 kVA~1600kVA



TSD

TSD Wall-hung Type AC Automatic Voltage Regulator

- TSD series wall-mounted AC voltage regulator supply power for equipment such as computers, duplicating machines, industrial precision equipment, medical apparatuses, household electrical appliances, etc.
- Rated capacity: 3, 5, 7 kVA



HH15-QA/QP



HH15-QA/QP Switch Disconnecter

- Mainly used in the distributing and motor circuit which has high short-circuit current, and acted as main switch or master switch infrequently operated by hand, it is particularly suitable in the relative high class with drawable low voltage complete equipment.
- They provide safety isolation and protection against overcurrent for any low voltage electrical circuit.
- Standard: IEC/EN 60947-3
- Rated current: 125~3150A



NH40



NH40 Switch Disconnecter

- NH40 series switch-disconnector is applicable for AC 50Hz, rated voltage AC 690V and below, DC 440V and below, rated current up to 3150A.
- It can be applied for manually infrequent making & breaking and disconnecting of the circuit. Products with Ith under 1000A can be used as load break switch. They provide safety isolation for any Low voltage circuit.
- Standard: IEC/EN60947-3.
- Rated current: 16~630A



HH15-QSA



HH15-QSA Fuse-switch Disconnecter

- Mainly used in the distributing and motor circuit which has high short-circuit current, and acted as main switch or master switch infrequently operated by hand, it is particularly suitable in the relative high class with drawable low voltage complete equipment.
- They provide safety isolation and protection against overcurrent for any low voltage electrical circuit.
- Standard: IEC/EN 60947-3.
- Rated current: 63~630A



NHR17



NHR17 Fuse-switch Disconnecter

- NHR17 series fuse-switch disconnecter is a new product developed by our company.
- Rated insulation voltage up to 800V, rated operational voltage up to 690V.
- Rated operational current up to 630A, rated frequency 50Hz, in the distribution circuit and motor circuit which has high short-circuit current as the power switch, isolating switch, emergency switch as well as circuit protection, but normally it is not used to make and break a single motor directly.
- Standard: IEC/EN 60947-3.
- Rated current: 160~630A



NHR40



NHR40 Fuse-switch Disconnecter

- NHR40 series switch-disconnector with fuse is applicable in the circuit of AC50Hz, rated voltage AC690V and below, DC440V and below, rated current up to 630A.
- NHR40 series are infrequently manually operated multipolar fuse combination switches,
- They break or switch off on load and provide safely isolation and protection against overcurrent for any voltage electrical circuit.
- Standard: IEC/EN 60947-3.
- Rated current: 160~630A



NHRT40



NHRT40 Vertical Fuse-switch Disconnecter

- NHRT40 series are infrequently manually operated multipolar fuse combination switches,
- They break or switch off on load and provide safely isolation and protection against overcurrent for any voltage electrical circuit.
- Standard: IEC/EN 60947-3.
- Rated current: 160~630A



HH15/QAS/QPS/QSS



HH15/QAS/QPS/QSS Changeover Switch

- Mainly used in the distributing and motor circuit which has high short-circuit current, and acted as main switch or master switch infrequently operated by hand, it is particularly suitable in the relative high class with drawable low voltage complete equipment.
- They provide safety isolation and protection against overcurrent for any low voltage electrical circuit.
- Standard: IEC/EN 60947-3.
- Rated current: 125~3150A



NH40S



NH40S Changeover Switch

- Mainly used in the distributing and motor circuit which has high short-circuit current, and acted as main switch or master switch infrequently operated by hand, it is particularly suitable in the relative high class with drawable low voltage complete equipment.
- They provide safety isolation and protection against overcurrent for any low voltage electrical circuit.
- Standard: IEC/EN 60947-3.
- Rated current: 160~630A



NH40SZ



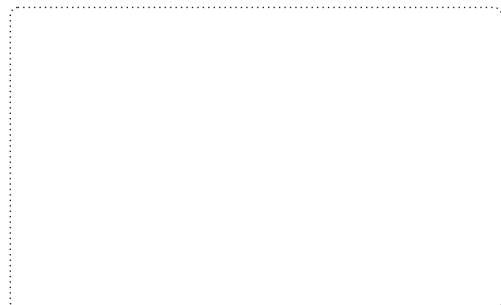
NH40SZ Automatic Changeover Switch

- NH40SZ automatic changeover switch disconnecter can realize automatic and manual changeover between normal and back up power supply power, and stop power supplying to load when changeover process of power supply is carried out.
- The switch is applicable for two circuits power supply and in the condition which requires high quality power supply.
- Standard: IEC/EN 60947-3. 60947-6
- Rated current: 16~1600A



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