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ΜΰREDΔΥ

MINDIAN ELECTRIC CO., LTD.

Product Selection Manual

www.cnmindian.com



MINDIAN ELECTRIC CO., LTD.

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ACMDYB220326

PRODUCT SELECTION MANUAL

MINDIAN ELECTRIC CO., LTD.

Mindian Electric **Performance Table**

- China Energy Construction Group Shanxi Electric Power Construction First Co., Ltd.
- The 48th Research Institute of China Electronics Technology Group Corporation
- Guangxi Lingyuan Electric Power Group Co., Ltd.
- Evergrande Real Estate
- Xinjiang Electric Power Changji Power Supply Company
- Tibet Electric Power Company Shigatse Company
- Hunan Electric Power Company Hengyang Power Supply Company
- Henan Qixian Power Supply Company
- Weifang Financial Center 10KV Power Distribution Project
- Anhui Guogou: Jingshang International Trade City
- Fuyang Jianghuai Vehicle Manufacturing Plant
- Southwest University of Science and Technology Chengdu Branch
- Datong First People's Hospital
- Taiyuan Second Construction Company





Founded in 2009, Moreday Solar is a R&D and manufacturing company integrating photovoltaics and new energy industry. The original intention of Moreday Solar is to bring more clean energy to the world and enjoy a better life.

regions.





Company Profile

The company's main products: photovolta-ic convergence and grid-connected prod-ucts, low-voltage electrical, energy storage and application products, solar power transmission and distribution products and solar system manufacturing.

The company takes solar energy sharing as its vision, technological innovation as its driving force, customer-oriented, and has obtained more than 30 national patents. Its products have passed CQC, CE, CB, TUV, ROHS and other certifications, and IS09001 quality system certification, with more than 1,000 services. Customers, the products are exported to more than 50 countries in Europe, America, Southeast Asia, the Middle East and other

We hope to work with more partners to bring solar energy to every region of the world, promote the widespread use of green and clean energy, and leave more day for the earth.



Corporate Advantage



• Is09001 quality management system

• Exported to more than 50 countries and regions all over the world



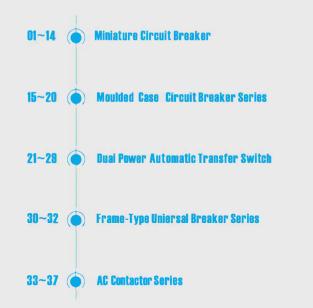
- Professional Life Cycle Management



Catalogue

MÜREDAY

Miniature Circuit Breaker







Μ^OREDAY

DZ47-63 Miniature Circuit Breaker

MDC8 Miniature Circuit Breaker

APPLICATION

■ APPLICATION DZ47 – €3 is applicable to a line of AC 50/60Hz, 230V in single pole, 400V in double, three, four poles for protecting overload and short circuit, and rated current up to 63A. It can also be used for infrequent line conversion under the normal condition. The breaker is applicable to lighting distri-butionsystem in industrial enterprise, commercially districh igh-rise building and dwelling house, It conforms with the standards of IEC60898,

MAIN TECHNICAL PARAMETER

| DZ47-63 | | | | |
|---------------------------|---|----------|---|--|
| 1P | | 2P.3P.4P | | |
| 6,10,16,20,25,32,40,50,63 | | | | |
| 230 |) | 400 | | |
| -5°C~+40°C | | | | |
| С | D | С | D | |
| 1-32A.6 | | 1-32A:6 | | |
| 50-63A:4 | 4 | 50-63A:4 | 4 | |

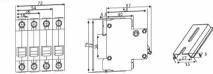
APPLICABLE CONOUCTING WIRE

| - Human warthing A) | | | |
|---------------------|-----|--|--|
| 1-6A | 1 | | |
| 10A | 1.5 | | |
| 16,20A | 2.5 | | |
| 25A | 4 | | |
| 32A | 6 | | |
| 40,50A | 10 | | |
| 63A | 16 | | |

THE OVER-CURRENT PROTECTION PROPERTY

| | Cold position | 1.13In | t≥1h | Non-release | - | |
|---------|---|--------|---------------------------------------|-------------|---------------------------|--|
| | Carried out immediately after previoustest | 1.45ln | t < 1h | Release | Ξ. | |
| 30±2℃ | Cold position | 2.55ln | 1s <t<60s (In≪32A)</t<60s | Release | Current smoothly rises | |
| | Cold position | 2.55In | 1s <t<120s (in>32A)</t<120s | Release | specified value within 5s | |
| | Cold position | 3In | t≥0 1s | Non-release | Type B | |
| | Cold position | 5In | t<0.1s | Release | 1 ype B | |
| -5~+40℃ | Cold position | 5ln | t≥0.1s | Non-release | Type C | |
| -5~+40% | Cold position | 10In | t < 0.1s | Release | Type C | |
| | Cold position | 10In | t≥0_1s | Non-release | Type D | |
| | Cold position | 20ln | t<0.1s | Release | Type D | |

DIMENSION



Applicable scope

MDC8 series of high – break small circuit breaker has the advantages of advanced structure, reliable performance, high breaking capacity, compact appearance, compact and so on. The shell and other parts are made of high impact resistant material Applicable to AC 50Hz – 60Hz, rated working voltage 400V, rated current from 3A to 63A. Main y used inoffice buildings, residential buildings and similar lighting, power distribution lines and equipment overload, short circuit protection, Can also be used in normal circumstances, as the line is not frequently broken down and converted. This products in line with the standards: IEC60389 and GB 10963.



| Model and meaning | |
|-------------------|--|
| | - The number of poles - Rated operating current |
| | - Application code: C for power distribution |
| | D for motor protection |
| | - Shell rated current |
| | Design serial number |
| | - Miniature circuit breaker |



Technical parameters

. . . .

M

| 230 | 1,2 | 3,6,10,16,20 | 4000 | 0.65~0.70 |
|---------|-------|--------------|------|-----------|
| 230/400 | 1,2 | 25,32,40 | 4000 | 0.65~0.70 |
| 400 | 2,3,4 | | 4000 | 0.65~0.70 |
| 230 | 1,2 | | 4000 | 0.75~0.80 |
| 230/400 | 1,2 | 50,63 | 4000 | 0.75~0.80 |
| 400 | 2,3,4 | | 4000 | 0.75~0.80 |

Note

Mechanical life: 20000 times (off - pass)

Electricallife: 4000 times

Heat resistance: 2 kind (temperature is 55, the relative humidity is 95%). The wiring terminal with clip, cable – up to 25mm

| | 1.13ln | All values | t≥1h | Don't trip | Cold | |
|-----|--------|------------|---|------------|-----------|--|
| С | 1.45In | All values | t<1h | Trip | Hot state | The current rises to a specified value in 55 |
| | 2.55In | In≼32A | 1s <60s</td <td>Trip</td> <td>Cold</td> <td></td> | Trip | Cold | |
| D | 2.55IN | In>32A | 1s <t<120s< td=""><td>Trip</td><td>Cold</td><td></td></t<120s<> | Trip | Cold | |
| ~ | 5tn | All values | t≥0.1s | Don't trip | Cold | Closi ng auxiliary switch |
| C - | 10In | All values | t<0.1s | Trip | Cold | Closing auxiliary switch |
| | 10In | All values | t≥0.1s | Don't trip | Cold | Closi ng auxiliary switch |
| D - | 14In | All values | t<0.1s | Trip | Cold | Closing auxiliary switch |

The current tripping characteristic table

| P/003 | |
|-------|--|
| | |



MD46 Series Miniature **Circuit Breaker**



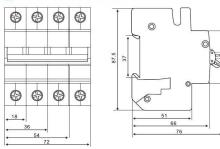
CONSTRUCTION AND FEATURE

Protection against both overload and short circuit High short-circuit capacity Applicable to terminal and pin/fork type busbar connection Easy mounting onto 35mm DIN rail

TECHNICAL DATA

Pole No:1,1P+N,2,3,3P+N,4 Rated voltage: AC 230/400V Rated current(A):1,2,3,4,6,10,13,16,20,25,32,40,50,63 Tripping curve:B.C.D Rated short-circuit capacity (Icn):B,C:10kA D:4.5kA Rated frequency:50/60Hz Energy limiting calss:3 Rated impulse withstand voltage:6.2kV Electro-mechanical endurance:6000 Contact position indication Connection terminal: □ Screw terminal Pillar terminal with calmp Connection capacity:Rigid conductor up to 25mm Fastening torque:2.0Nm Installation: On symmetrical DIN rail 35mm Panel mounting Terminal Connection Height :21mm

OVERALL & INSTALLATION DIMENSIONS



GENERAL

Application:For protecting cables and equipment against overload and short circuit General rules for choosing MCB:

Technical data of the network at the point considered: The earthing systems (TNS, TNC) short circuit current at the circuit-breaker installation pointm, which must always be less than the breaking capacity of this device, Network normal voltage:

MD43-63 Series Miniature

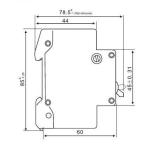
Circuit Breaker

- There are 2 curve characteritics for magnetic operation.
- Curve(3-5In)protection and control of the circuits against overloads and short-circuits:protection for people and big lengthcable in TN and IT systems.
- Curve(5-10In)protection and control of the circuits against overloads and short-circuits:protection for resistive and inductiveloads with low inrush.

TECHNICAL DATA

Standard:IEC/EN 60898-1 Electrical life:4000 Mechahical life: 10000 Protection degree: 2000 □ Reference temperature for setting of thermal element:30°C Rated current In(A):6, 10, 16, 20, 25, 32, 40, 50, 63 Poles:1P.2P.3P.4P Rated voltage Ue:230V/400V Insulation voltage Ui:500V Rated frequency:50/60Hz Rated breaking capacity:6000A Rated impulse withstand voltage(1.2/50)UimpStandard:4000V Dielectric test voltage at ind, Freq, for 1 min:2kv Pollution degree:2 Rated breaking capacity:6000A □ Themo-magnetic release characteristic:B,C

OVERALL & INSTALLATION DIMENSIONS





MOREDAY

MD47-63N Series Miniature **Circuit Breaker**

MOREDAY

MD48-63 Series Miniature **Circuit Breaker**



CONSTRUCTION AND FEATURE

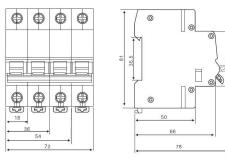
Protection against both overload and short circuit High short-circuit capacity Applicable to terminal and pin/fork type busbar connection Easy mounting onto 35mm DIN rail



TECHNICAL DATA

Pole No:1,1P+N,2,3,3P+N,4 Rated voltage: AC 230/400V Rated current(A):1,2,3,4,6,10,13,16,20,25,32,40,50,63 Tripping curve:B,C,D Rated short-circuit capacity (Icn):B,C:10kA D:4.5kA Rated frequency:50/60Hz Energy limiting calss:3 Rated impulse withstand voltage:6.2kV Electro-mechanical endurance:6000 Contact position indication Connection terminal: Screw terminal Pillar terminal with calmp Connection capacity:Rigid conductor up to 25mm² E Fastening torque:2.0Nm Installation: On symmetrical DIN rail 35mm Panel mounting Terminal Connection Height :21mm

OVERALL & INSTALLATION DIMENSIONS



APPLICATION

☐ MD48-63 is applicable to a line of AC 50/60Hz,230V in single pole,400V in double, three, four poles for protecting overload and short circuit, and rated current up to 63A. It can also be used for infrequent line conversion under the normal condition. The breaker is applicable to lighting distribution system in industrial enterprise, commercially district.high-rise building and dwelling house. It conforms with the standards of IEC60898.

MAIN TECHNICAL PARAMETER

| MD48-63 | | | | |
|---------------------------|--------|----------|---|--|
| 1P | 2P,3P, | 4P | | |
| 6,10,16,20,25,32,40,50,63 | | | | |
| 230 | 400 | 400 | | |
| -5℃~+40℃ | | | | |
| С | D | С | D | |
| 1-32A:6 | | 1-32A:6 | | |
| 50-63A:4 | 4 | 50-63A:4 | 4 | |



APPLICABLE CONDUCTING WIRE

| 1-6A | 1 | | |
|--------|-----|--|--|
| 10A | 1.5 | | |
| 16,20A | 2.5 | | |
| 25A | 4 | | |
| 32A | 6 | | |
| 40,50A | 10 | | |
| 63A | 16 | | |

THE OVER-CURRENT PROTECTION PROPERTY

| | Cold position | 1.13In | t≥1h | Non-release | - |
|----------|---|--------|---------------------------------------|-------------|---------------------------|
| | Carried out immediately after previous test | 1.45ln | t<1h | Release | - |
| 30 ± 2℃ | Cold position | 2.55ln | 1s <t<60s (In≤32A)</t<60s | Release | Current smoothly rises to |
| | Cold position | 2.55In | 1s <t<120s (In>32A)</t<120s | Release | specified value within 5s |
| | Cold position | 3In | t≥0.1s | Non-release | Туре В |
| | Cold position | 5In | t<0.1s | Release | Туре В |
| E 40% | Cold position | 5In | t≥0.1s | Non-release | Type C |
| -5~+40°C | Cold position | 10In | t<0.1s | Release | Type C |
| | Cold position | 10In | t≥0.1s | Non-release | Type D |
| | Cold position | 20In | t<0.1s | Release | Type D |







MDN-32 Series Miniature **Circuit Breaker**

MOREDAY

DZ47-125 Miniature **Circuit Breake**



Applicable scope

MDN-32 series of high breaking miniature circuit breakers are suitable for AC 50Hz, The overload and short circuit of the electric circuit are protected under the rated voltage of 230V or lower single phase housing line. The product has high breaking capacity, small size and width of 18mm. Zero, the same time cut off the fire, put an end to the fire, zero line or zero line to the ground potential caused by the human body and fire hazards, Is currently used in the residential areas of the most ideal power distribution protection switch.

This product is in line with the standards: IEC60898 and GB10963.

Model and meani M D N 1 - 32 Shell rated current Design serial numbe Miniature circuit breaker

Technical parameters

| 6,10,16 20,25,32 | 1+N | 230 | 32 | 4500 | 0.45~0.50 | 2000 |
|---------------------|-----|-----|----|------|-----------|------|

Mindian Electric CO., LTD.

NOTE:

Heat resistant type: The 2 kind (temperature 55, relative humidity 95%).

The wiring terminal with clip, using 10mm² or smaller hard wire

The current tripping characteristic table

| | Rated current (In) | | | | |
|--------|-----------------------|---|------------|-----------|--|
| 1.13In | Allvalues | T≤1h | Don't trip | Cold | The current rises to a specified value in 5S |
| 1.45In | All values | t<1h | Trip | Hot state | |
| 2.55In | All values | 1s <t<60s< td=""><td>Trip</td><td>Cold</td><td>Closing auxiliary switch</td></t<60s<> | Trip | Cold | Closing auxiliary switch |
| 5In | All values | t≥0.1s | Don't trip | Cold | Closing auxiliary switch |
| 10ln | All values | t<0.1s | Trip | Cold | |

Applicable scope

DZ47-125 series miniature circuit breaker is suitable for AC 50/60Hz. Rated voltage 400V and single phase 230V, rated current 100A and below the line, Used for building and electrical equipment for short circuit, overload protection, Also in normal circumstances, as the line of the non frequent conversion, but also applies to the isolation switch and as the line under voltage protection and remote disconnection. The product has the advantages of beautiful appearance, small volume, light weight, current trip setting is accurate, reliable, high breaking capacity, Tripping rapidly, rail mounted, composite pattern design with auxiliary contact, alarm indicating contact, undervoltage tripping device, shunt tripping device with accessories, Meet the needs of different users, the shell and parts with high flame retardant and impact resistance, long service life.



□ This product conforms to the standard: LEC60947-2, GB14048.2.

Model and meaning



Main technical parameters

□ Main types

The rated current of the circuit breaker is 63A, 80A, 100A The pole number of circuit breaker is divided into; single pole, two pole, three pole and four pole The circuit breaker is installed with 35 * 7.5 standard mounting rail. The rated value of the main circuit breaker is shown in Table 1.

| 63,80,100 | 1,2,3,4 | 230/400 | 4000 | 0.45~0.50 | |
|-----------|---------|---------|------|-----------|--|

The current tripping characteristic table two

| | 1.05 | 1 hours trip | 1 hours trip | Cold start | |
|---------|-------------|----------------------------|----------------------------|------------|--|
| 30±0.2℃ | 1.30 | Within 1 hours of the trip | Within 1 hours of the trip | Hot start | |
| | 3.0 | Return time<3s | Return time<5s | Hot start | |
| -5~45℃ | 5.0~10.0(0) | ≤0.1s interna | Iaction | | |
| -5~45°C | 10~14.0(D) | ≤0.1s interna | laction | Cold start | |

Power frequency withstand voltage: in the heat resistance, the circuit breaker should withstand the 2500V power frequency withstand voltage test for 1 minutes without the phenomenon of the breakdown of the flashover.

Dechanical and electrical life: circuit breaker of the mechanical and electrical life is 4000 times, of which 1500 times the electrical life.



Μ^OREDΛΥ

DZ47LE-63 Miniature Circuit Breaker

MDNL-32 Miniature Circuit Breake

APPLICATION

□ DZ47LE-63 is applicable to a line of AC 50/60Hz, rated voltage 230V for single pole two-wire, 2-pole or 400V for 3-pole, 3-pole 4-wire, 4-pole and rated current up to 40A.It can protect the line and motor from overload and short circuit.It can alias be used for infrequent line conversion and infrequent motor start.It conforms with the standards of IEC6 1009.

MAIN TECHNICAL PARAMETER

| DZ47LE-63 | | | | |
|---------------------------|------------|--|--|--|
| 1P+N,2P | 2P,3P+N,4P | | | |
| 6,10,16,20,25,32,40,50,63 | | | | |
| 230 | 400 | | | |
| 6-32A:6 / 40-63:4.5 | | | | |
| 2 | 000 | | | |
| 0.03,0.05,0.1,0.3 | | | | |
| 0.5l∆n | | | | |

APPLICABLE CONDUCTING WIRE

| 1-6A | 10A | 16,20A | 25A | 32A | 40,50A | 63A |
|------|-----|--------|-----|-----|--------|-----|
| 1 | 1.5 | 2.5 | 4 | 6 | 10 | 16 |

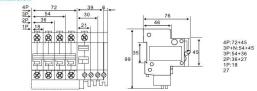
RESIDUAL CURRENT BREAKING TIME

| | | I∆n | 2l∆n | 5I∆n | | | | | |
|------|-------------------|-----|------|------|------|------|--|--|--|
| 6-63 | 0.03,0.05,0.1,0.3 | 0.1 | 0.06 | 0.04 | 0.04 | 0.04 | | | |

THE OVER-CURRENT PROTECTION PROPERTY

| | Cold position | 1.13ln | t≥1h | Non-release | |
|---------|--|----------------|---------------------------------------|-------------|---------------------------|
| | Carried out immediately after previous test | 1.45ln | t<1h | Release | - |
| 30±2℃ | Cold position | osition 2.55In | | Release | Current smoothly rises to |
| | Cold position | 2.55ln | 1s <t<120s (In>32A)</t<120s | Release | specified value within 5s |
| | Cold position | 3In | t≥0.1s | Non-release | Type B |
| | Cold position | 5In | t<0.1s | Release | Type B |
| r 1080 | Cold position | 5In | t≥0.1s | Non-release | Type C |
| -5~+40℃ | Cold position | 10In | t<0.1s | Release | Туре С |
| | Cold position | 10In | t≥0.1s | Non-release | Type D |
| | Cold position | 20In | t<0.1s | Release | Type D |

DIMENSION



Applicable scope

Model and meani

□ MDNL-32 leakage protection circuit breaker is suitable for AC 50Hz or 60Hz, rated voltage to 230V single-phase residential line, As an electric shock protection, and the civilian electrical line of overhaad and short circuit protection. The product has small size, high breaking capacity, Zero, while the fire and cutoff, and in the case of the wire to the ground, still can protect the body electric shock. This product can also be based on user requirements, increase the over-voltage protection function.]

- Shell rated current - Residual current protection - Design serial number - Miniature circuit breaker - Mindian Electric CO., LTD.



Main technical parameters

| Rated current(A) | Poles | Rated voltage (V) | Shell rated current(A) | Rated leakage current(mA) | Rated leakage current(mA) | Rated leakage breaking time | |
|---------------------|-------|-------------------------|------------------------|------------------------------|------------------------------|--------------------------------|------|
| 6,10,16 20,25,32 | 1+N | 230 | 32 | 30 | 15 | ≤0.1S | 3000 |

Note: the connection with the terminal with clip, the use of 10mm² and hard wire

The current tripping characteristic table

| 1.13ln | All values | T≤1h | Don't trip | Cold | |
|--------|------------|---|------------|-----------|---|
| 1.45In | Allvalues | t<1h | Trip | Hot state | The current rises to a specified value in 5S. |
| 2.55In | All values | 1s <t<60s< td=""><td>Trip</td><td>Cold</td><td></td></t<60s<> | Trip | Cold | |
| 5In | All values | t≥0.1s | Don't trip | Cold | Closing auxiliary switch |
| 10In | All values | t<0.1s | Trip | Cold | Closing auxiliary switch |

Note:

- □ MDNL-32 series of leakage protection circuit breaker filter device, can prevent the instantaneous voltage(line interference, lighting equipment) and instantaneous current (such as large capacitive load circuit malfunction caused by tripping).
- □ The other MDNL electronic leakage and overvoltage protection circuit breaker overvoltage tripping value is 280V + 5%





Μ^OREDAY

MDC8LE Miniature Circuit Breaker

DZ47LE-125 Miniature Circuit Breaker

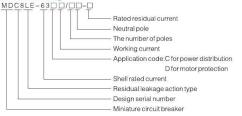


Applicable scope

□ MDCSLE series laakage circuit breaker is suitable for AC 50Hz (or 60Hz), rated voltage 400V and 230V The rated current of 3A on the 63A line, with leakage contacts, overload, short circuit and other protective functions. According to user requirements, increase the overvoltage protection function. Protect personal safety and prevent accidents caused by leakage current, and can be used to protect the overload and short circuit of the line. In ormal circumstances, the use of the non frequent breaking and converting of the line is used. The leakage current of the rated residual action current 30mA can provide direct protection to the personal contact.

☐ This product conforms to the standards: GB16917, GB10963, IEC61009, IEC60898.

Model and meaning



Main technical parameters

| | Shell rated current Inm(A) | | | | | |
|---------|----------------------------|---|----|----------------------------|------------------------|------|
| 230 | 63 | 1 | +N | | | <0.1 |
| 230/400 | 63 | 2 | | +N 30,(50), (100),(300) | | <0.1 |
| 230/400 | 63 | 3 | +N | | 15,(25), (50),(150) | <0.1 |
| 230/400 | 63 | 3 | | | | <0.1 |
| 230/400 | 63 | 4 | | | | <0.1 |

Note: the wiring terminal clamp, can connect 25mm² or smaller wire. Warning users: the rated current of the leakage current of the 30mA has the protection of human body safety.

Structure feature

MDC8LE (DZ47LE) series leakage circuit breaker by DZ47–63 MCB and leakage tripper. Circuit breaker of leakage circuit breaker, is mainly composed of a zero sequence current transformer, an electronic component board, leakage circuit breaker tripping and with overload and short circuit protection circuit breaker composition.

Applicable scope

DZ47LE-125 series leakage circuit breaker is suitable for AC 50Hz,Rated voltage 400V, rated current 100A line, With leakage, over cut, short circuit and other protective functions, According to user's need to increase over voltage, protection function. Mainly used in building lighting and power distribution system protection.



Model and meaning

DZ 47 LE - 100 / 0 Residual current of rated current The number of poles Shell rated current Electronic residual leakage action type Design serial number Special type of enterprise Special type of enterprise

Structure feature

DZ47LE-125 series leakage circuit breaker by DZ47 MCB and leakage tripper. Circuit breaker of leakage circuit breaker, Mainiy by the zero sequence current transformer, electronic component board, and leakage release with cut and short circuit protection circuit breaker.

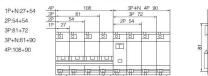
Main technical parameters

| | Shell rated current Inm(A) | Poles | Neut- ral line | Rated current In(A) | | ort circuit capacity COSΦ | Rated leakage current | Rated leakage current | Leakage actiontime (A) | |
|---------|----------------------------------|-------|----------------------|---------------------------|-------|---------------------------------|-----------------------------|-----------------------------|------------------------------|---|
| 230 | 100 | 1 | +N | 40 | 10000 | 0.5 | InmA 30 | InmA 15 | <0.1 | С |
| 230 | 100 | 2 | | 50 | 10000 | 0.5 | 50 | 25 | <0.1 | С |
| 400 | 100 | 3 | | 63 | 6000 | 0.5 | 100 | 50 | <0.1 | С |
| 230/400 | 100 | 3 | +N | 80 | 6000 | 0.5 | 300 | 150 | <0.1 | С |
| 230/400 | 100 | 4 | | 100 | 6000 | 0.5 | 500 | 250 | <0.1 | С |
| 230 | 100 | 1 | +N | 40 | 10000 | 0.5 | 30 | 15 | <0.1 | D |
| 230 | 100 | 2 | | 50 | 10000 | 0.5 | 50 | 25 | <0.1 | D |
| 400 | 100 | 3 | | 63 | 6000 | 0.5 | 100 | 50 | <0.1 | D |
| 230/400 | 100 | 3 | +N | 80 | 6000 | 0.5 | 300 | 150 | <0.1 | D |
| 230/400 | 100 | 4 | | 100 | 6000 | 0.5 | 300 | 250 | <0.1 | D |

Note: TRated leakage current: 30mA, 50mA, 100mA, 300mA.

(2)The wiring terminal with clip, hard cable can be connected with 50mm² or smaller hard wire

Dimensions and installation dimensions





ΜΰREDΔΥ

Moulded Case Circuit Breaker Series



Applicable scope

DMDM1 series of Moulded case circuit breakers (hereinafter referred to as circuit breakers), suitable for AC 50Hz (or 60Hz).Its rated insulation voltage of 800V (MDM1-63 type 500V), rated working voltage 690V (400V for RMM8-63 or lower).The circuit rated current to 1250A in not frequently switch and motor is non frequent starting with (Inm ≤ 630A or I ower). The circuit breaker has the function of overload, short circuit and under voltage protection. It can protect the circuit and the power equipment from damage.

MDM1 Series Moulded Case

Circuit Breaker

In accordance with its rated limit short-circuit breaking capacity, the circuit breaker is divided into three types of L(standard), M(high breaking type) and H(high breaking type). The circuit breaker has the c-

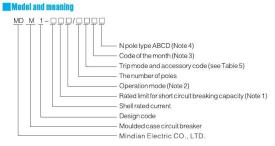
haracteristics of small size, high breaking capacity, short flight, and anti vibration.

The circuit breaker can be installed vertically (i.e., vertical),Also horizontal loading (i.e., horizontal).

Circuit breaker with isolation function, the corresponding symbol for: "-----" 。

Circuit breaker symbol: IEC60947-2 and GB14048.2.





Note:

- L type (standard type), M type (high breaking type), H type (high breaking type) are classified into the high and low short-circuit breaking capacity.
- The handle is directly operated without code: the electric operation is indicated by P; the rotating handle is expressed by Z.
- 3, Power distribution circuit breaker without code: protection of the motor with 2 said.
- According to the number of products are divided into three pole, quadrupole, quadrupole products in the form of neutral polar (N) four:

Type A: N is not installed over current release, and N is always on, not together with other three points. Type B: N is not installed over current release, and N together with other three points (N first and then). Type C: N install over -current release, and N together with other three points (N first and then).

TypeD: N install over-current release, and N is always on, not together with other three points.

Normal working environment

☐ Altitude: ≤2000m

- □ Ambient temperature:-5°C~+40°C
- Can withstand humid air
- □ Can tolerate salt spray, oil mist effect □ Pollution level is 3
- The maximum inclination angle is 22.5 degrees.

□ In the absence of explosive hazardous medium, and the medium is not sufficient to corrosion of metal

- and damage the insulation of the gas and electricity
- In the absence of rain and snow

Installation category II

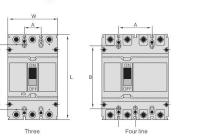
Μ^OREDAY

MDM1 Series Moulded Case Circuit Breaker

Dimension of configuration



P/016



| MDM1-63L/3300 | 78 | 136 | 88 | 25 | 116 | |
|----------------|-------|-------|-----|-----|-----|--|
| MDM1-63M/3300 | 78 | 136 | 94 | 25 | 116 | |
| MDM1-63/4300 | 101 | 136 | 94 | 50 | 116 | |
| MDM1-100L/3300 | 92 | 150 | 90 | 30 | 129 | |
| MDM1-100M/3300 | 92 | 150 | 104 | 30 | 129 | |
| MDM1-100/4300 | 121 | 150 | 90 | 60 | 129 | |
| MDM1-225L/3300 | 107 | 165 | 110 | 35 | 125 | |
| MDM1-225H/3300 | 107 | 165 | 110 | 35 | 125 | |
| MDM1-225M/3300 | 107 | 165 | 124 | 35 | 125 | |
| MDM1-225/4300 | 142 | 165 | 110 | 70 | 125 | |
| MDM1-400L/3300 | 148.5 | 257 | 152 | 45 | 194 | |
| MDM1-400H/3300 | 148.5 | 257 | 152 | 45 | 194 | |
| MDM1-400M/3300 | 148.5 | 257 | 152 | 45 | 194 | |
| MDM1-400/4300 | 197 | 257 | 152 | 95 | 194 | |
| MDM1-630L/3300 | 182 | 271 | 150 | 58 | 200 | |
| MDM1-630H/3300 | 182 | 271 | 150 | 58 | 200 | |
| MDM1-630M/3300 | 182 | 271 | 150 | 58 | 200 | |
| MDM1-630/4300 | 240 | 271 | 150 | 116 | 200 | |
| MDM1-800/3300 | 209 | 279.5 | 148 | 70 | 243 | |
| MDM1-800/4300 | 278 | 279.5 | 148 | 140 | 243 | |
| MDM1-1250/3300 | 210 | 545 | 176 | 70 | 375 | |
| MDM1-1250/4300 | 280 | 545 | 176 | 140 | 375 | |

H1

Application

IDLG series moulded case circuit breaker is suitable for industrial or commercial power and lighting with AC 50/60H2, rated working voltage upto AC 600V/DC250V, rated current up to 1200A.It's a kind of economical breaker with the characters of stable and reliable function, beautiful appear rance, small size and long life I can be used for conversion of line and infrequent starting motor. It can also be attached to install the accessories which have protection function for avoiding loss-voltage Under voltage, The product can in stall conne ction line with front board and back board, it also can be equipped hand operating apparatus of motor-operating apparatus to control in a remote distance.

MDLG Series Moulded Case Circuit Breaker



Main Technical Specifications

| | 2P | MDLG-402E | MDLG-402E | MDLG-602S | MDLG-602S | MDLG-802E | MDLG-802S |
|--|---------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Туре | 3P | MDLG-403E | MDLG-403E | MDLG-603S | MDLG-603S | MDLG-803E | MDLG-803S |
| | 4P | MDLG-404E | MDLG-404E | MDLG-604S | MDLG-604S | MDLG-804E | MDLG-804S |
| Rated current In(A) | | 250,300 | 350,400 | 500 | ,600 | 600,7 | 10,800 |
| Rated working voltage Ue(V) | | AC600, | DC250 | AC600 | DC250 | AC600 | DC250 |
| Rated insulation voltage | e Ui(V) | 60 | 00 | 6 | 00 | 6 | 00 |
| Rated impulse wishstand voltage Uimp(V) | | 60 | 00 | 60 | 100 | 60 | 00 |
| | AC220V/AC240V | 35 | 50 | 50 | 85 | 50 | 100 |
| | AC380V | 30 | 42 | 42 | 65 | 42 | 65 |
| | AC415V | 25 | 35 | 35 | 50 | 35 | 50 |
| | AC440V/AC460V | 25 | 35 | 35 | 50 | 35 | 50 |
| lcs(kA)O-t-CO | AC480V/AC500V | 18 | 25 | 25 | 35 | 25 | 45 |
| | AC600V | 18 | 22 | 22 | 25 | 22 | 25 |
| | DC125V | 20 | 30 | 30 | 50 | 30 | 50 |
| | DC250V | 10 | 20 | 20 | 40 | 20 | 40 |
| lcs(%lcu)O-t-CO-t-C | 0 | 100 | 100 | 100 | 100 | 100 | 50 |
| Arc-over distance(mm) | | ≯1 | 00 | ≯100 | | ≯100 | |
| Rated residual working | Fixed | | | | | | |
| current I∆n(A) | Unfixed | | | | | | |
| Rated residual working current I∆n(A) | | | | | | | |
| Breaking time at I∆n(A) | | | | | | | |
| Over-current tripping d | evice | Thermal- | magnetic | Thermal- | magnetic | Thermal- | magnetic |
| Operational performance: electrica life (times) | | 10 | 00 | 10 | 100 | 50 | 00 |
| Operational performance: mechanica life(times) | | 40 | 00 | 25 | 00 | 2500 | |
| Outline dimecsions $L \times W \times H$ | 2P | 257 × 14 | 40×113 | 280×2 | 10×113 | 280×2 | 10×113 |
| N. | 3P | 257 × 14 | 10×113 | 280×2 | 10×113 | 280×2 | 10×113 |
| 백년 | 4P | 257 × 18 | 35×113 | 280×2 | 80×113 | 280×2 | 30×113 |



MDLG Series Moulded Case Circuit Breaker

Main Technical Specifications

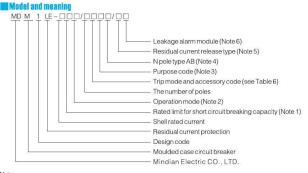
| | 2P | MDLG-63-102E | MDLG-63-102E | MDLG-63-102S | MDLG63102S | MDLG-63-202E | MDLG-63-202S |
|--|------------------------|--------------------------------|---------------------------------------|--------------------------------|---------------------------------------|----------------------------------|--------------------------------|
| Туре | 3P | MDLG-63-103E | MDLG-63-103E | MDLG-63-103S | MDLG-63-103S | MDLG-63-203E | MDLG-63-203S |
| | 4P | MDLG-63-104E | MDLG-63-104E | MDLG-63-104S | MDLG-63-104S | MDLG-63-204E | MDLG-63-204S |
| Rated current In(A) | | 10,15,20,30,40 50,60,75,100 | 10,15,20,30,40 50,60,75,100 | 10,15,20,30,40 50,60,75,100 | 10,15,20,30,40 50,60,75,100 | .10,15,20,30,40, 50,60,75,100 | 10,15,20,30,40 50,60,75,100 |
| Rated working voltage Ue | (V) | AC600,DC250 | AC380- 460(3P,4P) AC220/240(2P) | AC600,DC250 | AC380- 460(3P,4P) AC220/240(2P) | AC600,DC250 | AC600,DC250 |
| Rated insulation voltage U | i(V) | 600 | 600 | 600 | 600 | 600 | 600 |
| Rated inpulse wishstang v | oltage Uimp(V) | 6000 | 6000 | 6000 | 6000 | 6000 | 6000 |
| | AC220V/AC240V | 25 | 25 | 25 | 25 | 25 | 25 |
| | AC380V | 14 | 14 | 14 | 14 | 14 | 14 |
| | AC415V | 10 | 10 | 10 | 10 | 10 | 10 |
| | AC440V/AC460V | 10 | 10 | 10 | 10 | 10 | 10 |
| Ics(kA)O-t-CO | AC480V/AC500V | 7.5 | | 7.5 | | 7.5 | |
| | AC600V | 5 | | 5 | | 5 | |
| | DC125V | 10 | | 10 | | 10 | |
| | DC250V | 5 | | 5 | | 5 | |
| Ics(%Icu)O-t-CO-t-CO | | 50 | 50 | 50 | 50 | 50 | 50 |
| Arc-over distance(mm) | | ≯50 | ≯50 | ≯50 | ≯50 | ≯50 | ≯50 |
| Rated residual working | Fixed | | 0.03,0.1,0.3 | | 0.03,0.1,0.3 | | |
| current I∆n(A) | Unfixed | | 0.03,0.1,0.3 | | 0.03,0.1,0.3 | | |
| Rated residual working cu | rrent I∆n(A) | | 0.5×l∆n | | 0.5×l∆n | | |
| Breaking time at I∆n(A) | | | ≤0.1sec | | ≼0.1sec | | |
| Over-current tripping dev | ice | Thermalmagnetic | Thermalmagnetic | Thermalmagnetic | Thermalmagnetic | Thermalmagnetic | Thermalmagneti |
| Operational performance: | electrica life (times) | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 |
| Operational performance: | mechanica life(times |) 8500 | 8500 | 8500 | 8500 | 8500 | 8500 |
| Outline dimecsions $L \times W \times H$ | 2P | 130×50×60 | 130×50×60 | 155×60×60 | 155×60×60 | 165×105×60 | 165×105×60 |
| | 3P | 130×75×60 | 130×75×60 | 155×90×60 | 155×90×60 | 165×105×60 | 165 × 105 × 60 |
| | 4P | 130×90×60 | 130×90×60 | 155×120×60 | 155×120×60 | 165×140×60 | 165×140×60 |

MDM1LE Series Moulded case circuit breaker with residual current protection

Applicable scope

- DMDM1LE series with residual current protection Moulded case circuit breakers (hereinafter referred to as leakage circuit breakers), Suitable for AC 50Hz (or 60Hz), its rated insulation voltage is 800V, rated working voltage 400V, Rated operating current to 630A (800A) of the circuit for the conversion and the motor is not frequently used to start the motor. Circuit breaker with overload, short circuit and under vo-Itage protection function, can protect the line and power equipment is not damaged; At the same time, it can provide indirect contact protection, and can protect the fire danger caused by the long-term existence of the current protection can not be detected. In this me surgers tasked by use day is detected in existence of the current protection can not be detected. In other protection devices, the rated residual current is 30mA of the RMM8L leakage circuit breaker can be directly from the additional protection. Circuit breaker in accordance with its rated limit short – circuit breaking capacity, Divided into two types of M (high breaking). Hype (high breaking type, no H type). The circuit breaker has the characteristics
- of small size, high breaking capacity, short flight, and anti vibration.
- Circuit breakers can be installed vertically (i.e., vertical), and can be horizontally mounted (i.e., horizontal).
- protection.
- Circuit breakers can not fall into the line, that is, only 1, 3, 5 power supply lines, 2, 4, 6 load line.





- According to the rated ultimate short-circuit breaking capacity of the high and low into M type (high breaking type). H type (high breaking type).
 The handle is directly operated without code: the electric operation is indicated by P; the rotating handle
- is expressed by Z.
- 3. Power distribution circuit breaker without code: protection of the motor with 2 said.
- 4. According to the number of products are divided into three pole, quadrupole, quadrupole products in the form of neutral polar (N) two:
- Type A: N is not installed over current release, and N is always on, not together with other three points. Type B: N is not installed over current release, and N together with other three points (N first and then).
- 5. The residual current release model is divided into type I, type II (see table four) as the standard type of
- type I, II type please indicate.
- 6. The module without alarm unit has no code, and the module with alarm unit should be stated in the order.

Normal working environment

☐ Altitude:≤2000m Ambient temperature:-5°C~+40°C

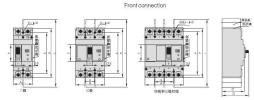
- Can withstand humid air
- Can tolerate salt spray, oil mist effect
- The maximum inclination angle is 22.5 degrees.
- In the absence of explosive hazardous medium, and the medium is not sufficient to corrosion of metal and damage the insulation of the gas and electricity

In the absence of rain and snow

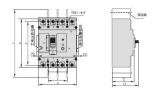


MDM1LE Series Moulded Case Circuit Breaker

Dimension of configuration



Outline and installation dimensions of standard type leakage circuit breaker



High type leakage circuit breaker appearance and installation size chart

| MDM1LE- | 2 | 60.5 | 155.5 | 73.5 | 86.5 | 51 | 18 | 270 | | 132 ± 0.32 | $2 - \Phi 5_{0}^{+0.32}$ |
|-----------------|----|-------|-------|------|------|-----|----|-----|----------|----------------|--------------------------|
| 100 | 3 | 90.5 | 148 | 73.5 | 86.5 | 51 | 18 | 270 | 30±0.14 | 132±0.32 | $4 - \Phi 5^{+0.32}_{0}$ |
| MDM1LEL- | 3N | 125 | 148 | 73.5 | 86.5 | 51 | 18 | 270 | 60±0.20 | 127±0.32 | $4 - \Phi 5^{+0.32}_{0}$ |
| 100H | 4 | 125 | 148 | 73.5 | 90 | 51 | 23 | 256 | 60±0.20 | 127±0.32 | $4 - \Phi 5^{+0.32}_{0}$ |
| MDM1LE- | 3 | 105.5 | 166 | 93 | 111 | 51 | 18 | 375 | 35±0.16 | 126±0.32 | $4 - \Phi 5^{+0.32}_{0}$ |
| 225 | ЗN | 140.5 | 166 | 93 | 111 | 51 | 18 | 375 | 75±0.23 | 125 ± 0.32 | $4 - \Phi 5_{0}^{*0.32}$ |
| MDM1LE- 225H | 4 | 140.5 | 166 | 73.5 | 92 | 63 | 23 | 370 | 75±0.23 | 125 ± 0.32 | 4-Φ5 ^{+0.32} |
| MDM1LE- 400 | ЗN | 197 | 259 | 111 | 156 | 100 | 45 | 460 | 97±0.26 | 196±0.43 | $6 - \Phi 5^{+0.32}_{0}$ |
| MDM1LE- 400H | 4 | 197 | 259 | 111 | 156 | 90 | 51 | 460 | 97±0.36 | 196±0.5 | $2 - \Phi 5^{+0.32}_{0}$ |
| MDM1LE- 630H | 4 | 280 | 280 | 111 | 156 | 92 | 53 | 485 | 140±0.23 | 243 ± 0.43 | $4 - \Phi 5^{+0.32}_{0}$ |
| MDM1LE- | 4 | 280 | 280 | 116 | 156 | 81 | 66 | 490 | 140±0.23 | 243 ± 0.43 | 4-Φ5 ^{+0.32} |
| 800H | 3 | 210 | 280 | 116 | 156 | 81 | 66 | 490 | 70±0.23 | 243±0.43 | 4-Φ5 ^{*0.32} |

Μ^OREDΔΥ

Double Power Source Automatic Switch Series



P/020

HGLSeries Isolating Switch

MOREDAY

Dual Power Automatic Transfer Switch

Summary

Annlicable scope

Model and meaning

HGL 🗆 – 🗆 A / 🗆 J K 🗆 B H

HGL series - isolating switch from 125-3150A to 18 specifications is a modular design basis, With three pole, four pole (pole + can be cutoff), suitable for circuit and connected with the separation or electrical isolation, 1000A above only for electrical isolation.

The front side is provided with a marking window indicating the contact state of the contact.

According to the need to provide the back observation window, the direct observation of the contact state, Window style see 25-1600A/H HGL-1 cabinet after the operation load of a separate switch.

HGL series load isolation switch is suitable for AC 50Hz, rated voltage to 660V, DC rated voltage to 440V, rated

Rated current

22

-C side operation a separate switch

-Z switch to a separate switch

Mindian Electric CO., LTD.

Cabinet after the operation, do not need not to note After the board, the board is not connected. Auxiliary contact function code (see table), do not need not note

Direct observation of the contact window, do not need not to note. Cabinet operation, the operation is not injection.

Pole number 3 pole, 4 pole (3 pole + can be broken through the neutral pole)

2NO+2NC

current to 1600A circuit. For less frequent connection and disconnection circuit.

Summary

 MDQ8P automatic transfer switch (ATSE), is a set of switches and logic control in one, the real realization of the automatic conversion of mechanical and electrical integration, With voltage detection, frequency detection, communication interface, electrical, mechanical interlocking and other functions, can realize automatic, electric remote, emergency manual control.

Operation is a logic control board with various logic commands to manage the operation of the motor, gearbox operation to achieve, The motor drives the switch spring energy storage, the instantaneous release of the acceleration mechanism, the fast switching circuit or the circuit conversion, Through the obvious visible state to achieve safe isolation, greatly improving the electrical performance and mechanical properties.

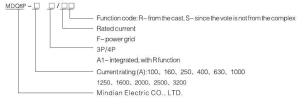


Accord with standard

□ IEC60947-1/GB/T4048.1 "low voltage switchgear and control equipment for the first part of the general" □ IEC60947-3/GBI4048.3 "low voltage switchgear and control equipment Part 3: switches, disconnectors, isolation switch and fuse combined electrical apparatus"

□ IEC60947-6/GBI4048.11 "low voltage switchgear and control equipment - Part 6-1: multi - functional electrical appliances switch electrical appliances"

Model and meaning



Normal working condition and installation condition

HGL series - isolating switch can work reliably under the following conditions

- □ No more than 2000 meters above sea level;
- \Box The ambient temperature is not higher than 40°C, not less than -5° C;
- Relative humidity is not more than 90%;
- No explosion hazard;

Two normally open two normally closed

- No snow rain attack environment;
- Note: when the ambient air temperature is higher than the +40°C or below the -5°C ~-45°C, the user's order should be explained to the manufacturer

Product use

- MDQ8P series automatic transfer switch is mainly used for communication 50Hz,Rated voltage 380V, rated voltage 220V, rated current 16 to Rated voltage 380V, rated voltage 220V, rated current 16 to 3 200A power distribution or motor network in a master standby power switching system and the power switch system and the power plant load switching. At the same time can be used for the isolation of the circuit and the circuit without frequent connection.
- Products are widely used in fire fighting, hospitals, banks, high-rise buildings, and other important power supply is not allowed to power off the transmission, distribution systems and automation systems.



6

Dual PowerAutomatic Transfer Switch

MOREDAY

Dual PowerAutomatic Transfer Switch

Performance and features

Double row composite contact, transverse pull type mechanism, microelectric energy storage and micro electronic control technology, the basic realization of zero flying arc (no arc shield); The use of reliable mechanical interlocking and electrical interlocking, the implementation of the use of independent load isolation switch, the use of safe and reliable; The use of zero position technology, the case can be forced to zero (at the same time cut off the power

supply), to meet the needs of fire linkage; The load isolation switch is switched by a single motor driver, and the switch is reliable and stable, no noise and small impact force;

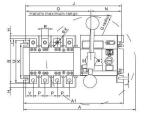
and small impact drives the motor only in the implementation of the load isolation switch to switch the insta – Tha ectuated with the steady state does not need to provide working current, henergy saving signation Perform load isolation switch with mechanical interlocking device to ensure that the common and standbar power supply is reliable;

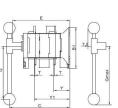
ower supply is reliable: Has the obvious on -off position indicator, and other functions to achieve reliable padlock, isolation between the power supply and the load; Good safety performance, high degree of automation, high reliability, service life of more than 8000 times; Mechanical and electrical integration design, the switch is accurate, flexible and smooth, the use of international and venced logic control technology, strong anti-interference ability, no interference: With the main power supply, standby power supply, the main power supply, standby power supply, the main power supply is disconnected three kinds of stability (1−0−11); Gourk inds of operation functions: emergency manual operation, electric remote control operation, automatic control state of emergency operation, automatic control operation.

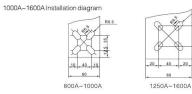
Electrical performance and mechanical properties

| Rated current It | h | 20 A | 40 A | 60 A | 80 A | 100 A | 125 A | 160 A | 250 A | 400 A | 630 A | 800 A | 1000 A | 1250 A | 1600 A | 2000 A | 2500 A | 3200 A |
|---------------------|---------------------|---------|---------|---------|---------|----------|----------|----------|----------|-----------|----------|----------|-------------|-----------|-----------|-----------|-----------|-----------|
| Rated insulation | n voltageUi | _ | _ | - | 750 | V | - | - | | | - | 10 | 000 | <u> </u> | | - | | |
| Rated impulse withs | stand voltageUimp | | | | 8K | V | | | | | | 1 | 2KV | | | | | |
| Rated working | voltageUe | | | | | | | | AC4 | 440 | / | | | | | | | |
| D () | AC-31A | 20 | 40 | 63 | 80 | 100 | 125 | 160 | 250 | 400 | 630 | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3200 |
| Rated operating | AC-35A | 20 | 40 | 63 | 80 | 100 | 125 | 160 | 250 | 400 | 630 | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3200 |
| current le | AC-33A | 20 | 40 | 63 | 80 | 100 | 125 | 160 | 250 | 400 | 630 | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3200 |
| Rated connecte | ed capacity | | | | | | | | 10 | Ole | - | | | | | | | |
| Rated breaking | capacity | | | | | | | | 8 | le | | | | | | | | |
| Rated short-cir | rcuit current Is | 50kA | | | | | | | 70kA | | | | 100kA 120kA | | | kA | | |
| Rated short-time w | vithstand currentIs | | | 7 | kΑ | | | 91 | A | 13kA 26kA | | | kΑ | 50kA | | | | 55kA |
| Conversion time | e I– II or –I | | | 2s | | |) (| 0.65 | | 0. | .6s | | 1. | 2s | | 1. | 8s | 2.4s |
| Control voltage | | | | | | DC | 24 | 1. 4 | 8V. | 110 | VA | AC2 | 20V | | _ | | | |
| Motor energy c | onsumption | | | | | | | | | ~ | | | | | | | | |
| Rated power Start | | | | 30 | 0W | | | 32 | 5W | 35 | 5W | 400W | 4 | 400 | V | 60 | ΟW | |
| consumption | Normal | | | 5 | 5W | | | 62 | W | 74 | 4W | 90W | - 3 | 98W | | 12 | W0 | |
| Weight(4kg)4p | ole | 7.0 | 7.2 | 7.2 | 7.2 | 7.5 | 7.5 | 8.8 | 9.0 | 16.5 | 17 | 32 | 36 | 40 | 43 | 50 | 53 | 75 |

[6]Dual power automatic transfer switch Dimension diagram 20~1600A



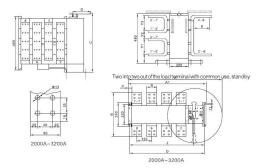




20A~1600A Installation dimensions

| Specific- | | Total size Sw | | | | | | Swi | tchi | nsta | Illati | on | | | Terminal block | | | | | | | | |
|------------------|------|---------------|-----|-----|-----|-----|-----|-----|------|------|--------|------|-------|-----|----------------|----|-----|-----|----|----|------|-------|----|
| ations | А | A1 | В | B1 | С | Е | G | Н | J | Κ | L | Ν | 0 | Ρ | R | S | Т | U | V | φX | Y | Y1 | Ζ |
| 20~100 A | 280 | 244 | 107 | 103 | 150 | 140 | 115 | 19 | 226 | 84 | 7 | 83.5 | 142.5 | 30 | 14 | 18 | 2.5 | 103 | 13 | 6 | 41.5 | 93 | 2 |
| 125~160 A | 360 | 303 | 135 | 142 | 213 | 200 | 145 | 10 | 285 | 117 | 7 | 93 | 192 | 36 | 20 | 25 | 3.5 | 127 | 21 | 9 | 55.5 | 127.5 | 4 |
| 250 A | 420 | 362 | 159 | 142 | 213 | 200 | 145 | 6 | 343 | 103 | 7 | 93 | 250 | 50 | 25 | 28 | 3.5 | 141 | 29 | 11 | 58 | 131.5 | 9 |
| 400 A/3P | 530 | 370 | 234 | 222 | 286 | 275 | 245 | 20 | 365 | 179 | 9 | 97 | 268 | 65 | 32 | 37 | 5 | 222 | 38 | 11 | 83 | 193 | 6 |
| 400 A/4P | 590 | 430 | 234 | 222 | 286 | 275 | 245 | 20 | 425 | 179 | 9 | 97 | 328 | 65 | 32 | 37 | 5 | 222 | 38 | 11 | 83 | 193 | 6 |
| 630 A/3P | 530 | 370 | 250 | 222 | 286 | 275 | 245 | 20 | 365 | 179 | 9 | 97 | 268 | 65 | 40 | 45 | 6 | 222 | 38 | 11 | 83.5 | 193.5 | 14 |
| 630 A/4P | 590 | 430 | 250 | 222 | 286 | 275 | 245 | 20 | 425 | 179 | 9 | 97 | 328 | 65 | 40 | 45 | 6 | 222 | 38 | 11 | 83.5 | 193.5 | 14 |
| 800~1000 A/3P | 785 | 520 | 328 | 250 | 351 | 340 | 360 | 20 | 503 | 220 | 11 | 88 | 415 | 120 | 60 | 64 | 8 | 250 | 59 | 13 | 109 | 254 | 39 |
| 800~1000 A/4P | 1080 | 634 | 328 | 250 | 351 | 340 | 540 | 20 | 617 | 220 | 11 | 88 | 529 | 120 | 60 | 64 | 8 | 250 | 59 | 13 | 109 | 254 | 39 |
| 1250 A/3P | 785 | 520 | 336 | 250 | 351 | 340 | 360 | 20 | 503 | 220 | 11 | 88 | 415 | 120 | 80 | 68 | 8 | 250 | 59 | 13 | 109 | 254 | 43 |
| 1250 A/4P | 1080 | 634 | 336 | 250 | 351 | 340 | 540 | 20 | 617 | 220 | 11 | 88 | 529 | 120 | 80 | 68 | 8 | 250 | 59 | 13 | 109 | 254 | 43 |
| 1600 A/3P | 785 | 520 | 336 | 250 | 351 | 340 | 360 | 20 | 503 | 220 | 11 | 88 | 415 | 120 | 80 | 68 | 10 | 250 | 59 | 13 | 110 | 255 | 43 |
| 1600 A/4P | 1080 | 634 | 336 | 250 | 351 | 340 | 540 | 20 | 617 | 220 | 11 | 88 | 529 | 120 | 80 | 68 | 10 | 250 | 59 | 13 | 110 | 255 | 43 |

2000A~3200A two into the installation diagram



2000A~3200A Installation dimensions

| 2000A/3P | 785 | 535 | 423 | 560 | 360 | 408 | 490 | 80 | 81 | 10 | 30 | 113 | 121 | 113 |
|----------|------|-----|-----|-----|-----|-----|-----|----|----|----|----|-----|-----|-----|
| 2000A/4P | 1080 | 650 | 423 | 560 | 540 | 523 | 605 | 80 | 81 | 10 | 30 | 113 | 121 | 113 |
| 2500A/3P | 785 | 535 | 433 | 560 | 360 | 408 | 490 | 80 | 81 | 15 | 30 | 118 | 116 | 118 |
| 2500A/4P | 1080 | 650 | 433 | 560 | 540 | 523 | 605 | 80 | 81 | 15 | 30 | 118 | 116 | 118 |
| 3200A/3P | 785 | 535 | 433 | 560 | 360 | 408 | 490 | 80 | 81 | 20 | 30 | 123 | 111 | 123 |
| 3200A/4P | 1080 | 650 | 433 | 560 | 540 | 523 | 605 | 80 | 81 | 20 | 30 | 123 | 111 | 123 |



Dual Power Automatic Transfer Switch

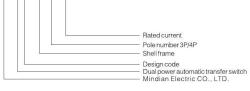
Dual PowerAutomatic Transfer Switch

Product overview



□ MDQ2 series dual power supply is a new product for the market withdrawal, which effectively solves the problem of the dual power supply of micro cut off, and the reliability is poor, Replacement is not convenient and other defects, the series of products have been obtained three patents (invention patents, utility models, the appearance of patents).

Model and meaning



Technical parameters

Working environment temperature:-30 ~+60 Operating supply voltage range:AC85~300V Power waste::55W Conversion delay: 0.2 Seconds Return delay: 0.2 seconds

Controller features and functions

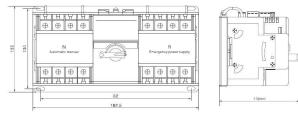
☐ The automatic conversion switch according to the voltage state of the working powersupply, and the working mode of the user, Decide whether to turn from one source to another. Its function depends on the controller, including A and B two models, The main functions and characteristics of the following table are shown in the following table:

| Working power source | AC120~300V 50/60Hz | AC120~300V 50/60Hz |
|---------------------------|----------------------|--|
| Installation method | Integral type | Integral type |
| Working position | Two working position | Three working position |
| Operation mode | Automatic and manual | Automatic and manual |
| Generator control | No | A set of 5A relay dry contact |
| Fire linkage control | No | Passive contact input, with a group of normally open source signal feedback contact |
| Conversion mode | Selfcast | Can provide self – InvestmentSelf , switching and power grid generator model |
| Conversion delay function | Fixed 0.2 seconds | 0~30 seconds continuous adjustable |
| Return delay function | Fixed 0.2 seconds | 0~30 seconds continuous adjustable |

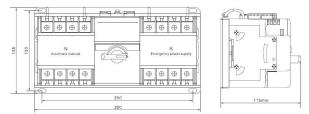
Terminals and wiring instructions

- ①: 101, 102 pole switching power supply zero line terminal;
- 2: 201, 202 pole switch standby power zero line terminal;
- 3: 301~303 signal output (0.5A AC220V) of the power supply used in external power supply
- 301~ signal lamp
- 302~ common power supply signal output
- 303~ commonly used power switch signal output
- (4): 401~403 standby power supply external status indicator signal output (0.5A AC220V)
 - 401~ signal lamp
 - 402~ common power supply signal output
- 403~ commonly used power switch signal output

Dimensions and installation dimensions



MDQ2-63/3P Dimensions and installation dimensions



MDQ2-63/4P dimensions and installation dimensions



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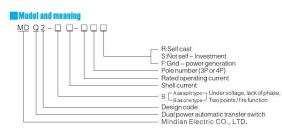
Dual Power Automatic Transfer Switch

Dual PowerAutomatic Transfer Switch



Product overview

□ MDQ2 CB series intelligent dual power automatic switching system is suitable for AC 50/60Hz, rated voltage 400V,Double power supply system with rated current 2000A,Power supply (N) and standby power (R) can be achieved automatically switch (also can be set to manually switch) to double power supply users to achieve unattended substation. This product is applicable to special classes, class power system, high-rise buildings, residential quarters, military facilities, hospitals, airports, docks, hopping malls, communications, fire, metallurgy, chemical, textile, oil, coal and other important places to allow power outages.



RMQ8 Configuration and installation dimensions of dual power switching device for split type

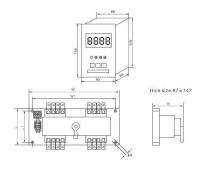
| | | 3P/4P | 3P/4P | | | 3P/4P |
|------------|----------------|---------|---------|---------|---------|---------|
| MDQ2 -63 | | 340/360 | 180/180 | 170/170 | 310/310 | 150/150 |
| MDQ2 - 100 | | 390/420 | 200/200 | 180/180 | 390/390 | 170/170 |
| MDQ2-225 | MDM1 Series | 430/470 | 210/210 | 200/200 | 400/440 | 180/180 |
| MDQ2-400 | 061163 | 580/630 | 320/320 | 230/230 | 550/600 | 180/180 |
| MDQ2-630 | | 660/720 | 330/330 | 230/230 | 630/690 | 180/180 |
| MDQ2-800 | | 660/780 | 330/330 | 230/230 | 630/750 | 180/180 |
| MDQ2-1250 | TM30 Series | 720/800 | 450/450 | 260/260 | 690/770 | 180/180 |
| MDQ2-2000 | | 1000 | 450 | 370 | 970 | 180 |

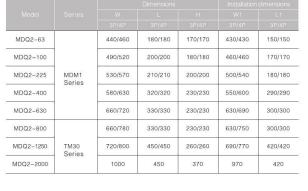
RMQ8Integrated intelligent dual power switching device and its configuration and installation dimensions

| | parame | |
|--|--------|--|
| | | |
| | | |

- □ Working environment temperature:-30°C~+60°C
- Operating supply voltage range: AC85~300V
- ☐ Power waste:≤5W
- Conversion delay: 0.2Seconds
- Return delay: 0.2 seconds

Dimensions and installation dimensions





Frame-Type Uniersal Breaker Series



Summary

MDW1 series intelligent universal circuit breaker (hereinafter referred to as circuit breaker). Suitable for AC 60Hz, rated voltage to 400V (690V) or lower, rated current 63A0–6300A in power distribution n– etwork. Used to distribute power and protect line and power supply equipment from overdistribution n– etwork. Used to distribute power and protect line and power supply equipment from overdistribution n– etwork. Used to distribute power and protect line and power supply equipment from overdistribution n– the same time with open communication interface, can be "four remote" to meet the requirements of the control center and the automation system. The circuit breaker can be widely used in powerplants, factories, mines (especially 690V) and modern elevation buildings, especially in intelligent buildings in the power distribution system, In wind power, solar power and other green energy projects also have a wide range of applications.

low voltage circuit breakers" and IEC60947-2 "low voltage switchgear and control equipment breakers"



(Fixed type)

(Drawer type)

and other standards.

Model and meaning
MD W 1 - - - /

The number of poles (Quadrupole pole marked 4,not show three pole)
 The rated current of the breaker's shell frame
 Design serial number
 Universal circuit breaker
 Mindian Bectric CO., LTD.

Classification

- 1 By installation method
- a.Fixed type
- b.Drawer type
- 2 Press pole number: three pole, four pole
- 3 By way of operation
- a.Electric operation
- b.Manual operation (inspection and maintenance)
- 4 According to the release types
- Intelligent controller, undervoltage instantaneous (or delay) release, shunt release.

Use environmental conditions

- 1 The upper limit value of ambient air temperature is no more than +40°C, and the lower limit is not less than
- -5° C, and the average value of 24h is no more than +35°C. Note: 1. The lower limit is -10°C or -25°C, and the user should declare it with the company.
- 2.The upper limit value exceeds the working condition of –25%, the user should consult with the company +40%.
 2 The altitude of the installation location is no more than 2000m.
- I he altitude of the installation location is no more
 Atmospheric condition
- The relative humidity of the atmosphere is not more than 50% when the ambient air temperature is +40°C; At a lower temperature, the relative humidity can be relatively high, and the average relativehumidity is 90% At the same time, the average minimum temperature is +25°C. Taking into account the temperature change on the surface of the product, Exceed the specified requirements shall be negotiated by the company.
- 4 Protection level: IP30
- 5 Pollution level: 3.
- 6 Class: B class
- 7 Installation category
- The rated working voltage of 400V (660V) and the circuit breaker and under voltage release, Power transformer primary coll is used for the installation of class IV, auxiliary circuit and control circuit are arranged in the category of.
- 8 Installation condition

The circuit breaker shall be installed in accordance with the requirements of this book, and the vertical inclination of the circuit breaker is no more than 5 degrees (no more than 15 degrees) of the slope of the mine breaker.





MDW1 Series Frame-Type Uniersal Breaker



MDW1 Series Frame-Type Uniersal Breaker

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Technical data and performance

| ed current of circuit breaker | Tabl |
|-------------------------------|-----------------------------|
| Shell rated current InmA | Rated current In A |
| 2000 | 630、800、1000、1250、1600、2000 |
| 3200 | 2000、2500、2900、3200 |
| 4000 | 3200、3600、4000 |
| 6300 | 4000、5000、6300 |

2 The rated short circuit breaking capacity of circuit breakers and the short time withstand current, the distance of the circuit breaker is 'zero' (that is, outside the circuit breaker).

| | | | | | Tabl |
|--|------|----------|---------|------------|-------------|
| Shell rated current InmA | | 2000 | 3200 | 4000 | 6300 |
| Rated ultimate short- | 400V | 80 | 100 | 100 | 120 |
| circuit breaking capacity Icu(kA)O-CO | 690V | 50 | 65 | 65 | 80 |
| Rated short-circuit capacity | 400V | 176/0.2 | 220/0.2 | 220/0.2 | 264/0.2 |
| nxlcu(kA)/COSΦ | 690V | 105/0.25 | 143/0.2 | 143/0.2 | 187/0.2 |
| Rated running short circuit | 400V | 50 | 65 | 65 | 80 |
| breaking capacity lcs(kA)O-CO-CO | 690V | 40 | 50 | 50 | 70 |
| Rated short-time withstand current | 400V | 50 | 65 | 65/80(MCR) | 85/100(MCR) |
| lcw(kA)1S,Timedelay0.4s,O-CO | 690V | 40 | 50 | 50/65(MCR) | 65/75(MCR) |

Note: the same is the same as in the table.

3 The maximum power consumption of the circuit breaker 360W. Circuit breakers rated at different ambient temperatures for continuous current Table 3

| ~ | | | | | | Table |
|------|------|------|-------|-------|-------|-------|
| MDW1 | 630A | 800A | 1000A | 1250A | 1600A | 2000A |
| 40 | 630A | 800A | 1000A | 1250A | 1600A | 2000A |
| 50 | 630A | 800A | 1000A | 1250A | 1550A | 1900A |
| 60 | 630A | 800A | 1000A | 1250A | 1550A | 1800A |

Note: the 2500A and the above reduced capacity factor is 0.9, and the 4000A in 6300A is not reduced.

4 Intelligent overcurrent control protection and function

Over current controller protection

| 4.1 Setting Ir (I/I | n) and error of c | ontroller | | | | | Table 4 | | |
|---------------------|---------------------|-----------|--|-------|---|--------------------------|---------|--|--|
| Long delay | g delay Short delay | | Instantaneou | s | Earth fault | | | | |
| Ir1 | lr2 | Error | lr3 | Error | lr4 | | Error | | |
| (0.4-1)In | (0.4–15)In | ± 10% | In~50kA(Inm=2000A) In~75kA(Inm=3200~4000A) In~100kA(Inm=6300A) | ± 15% | Inm=2000~4000A (0.2–0.8)In Max1200A Min160A | lnm=6300A (0.2-1.0)ln | ± 10% | | |

Note: when the three period of time has (requirements), the setting value can not cross.

AC Contactor Series



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CJX2 Series of

AC Contactor

CJX2 Series of AC Contactor

Applicable scope

□ CJX2 series AC contactor is mainly used for AC 50Hz (or 60Hz), the rated insulation voltage is 690V. In the circuit of rated operating current to 380V with the use of AC–3 under the category of 95A. For remote connection and break circuit, The circuit consists of an electromagnetic starter with appropriate thermal overload relay to protect potential overload.



Model and meaning

Nsaid interlocking contactor:C Common product code;
 GExpress Plateau
 Type product code

Number of auxiliary contact of three stage contactor. With two digits, the first digit indicates the number of auxiliary contacts. After a digital representation of the number of auxiliary contacts. Main quantity of four pole contactor:004Indicates that four of the main contact:008Express two to often open contact head and two pair of normally closed main contacts

- AC contactor



| CJX2-09-95 | 50/60 | B7 | E7 | F7 | M7 | Q7 | | |
|------------|-------|----|----|----|----|----|--|--|

Structure characteristic

☐ Motion machine is a straight, touch should be double power;

Combination function, in addition to the installation surface, the rest of the surface can be equipped with accessories;

□ On both sides can be equipped with auxiliary contact group (EKF8) or interlooking mechanism; □ Can be equipped with auxiliary contact (EKF4) air to extend the head (2-TR EKLA3); □ The coil terminal can be installed with time delay and other functional modules.

Working condition and installation condition

Ambient air temperature:-5°C~+40°C

- Installation location is not more than 2000m;
- ☐ The highest temperature is +40°C. The relative humidity of the air is no more than 50%; At lower temperatures, there is a relatively high relative humidity. For example, when the +20°C is 90%, Take special measures due to temperature change should occasionally produce.
- Pollution level: 3.
- Installation category: class III.

In addition to the installation of screws, but also the use of 75mm, 35mm standard rail installation.
 Marine AC contactor

Ambient air temperature-25°C~+45°C

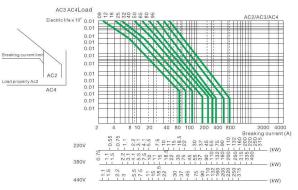
- Atmospheric conditions: there exist condensation, salt fog, mist, mildew, moist air sea etc.;
- ☐ The direction of till is not more than 22.5 degrees, the direction of swing gets 22.5 degrees, period of 10 seconds:
- □ Vibration: can be installed and used in frequency 2–13.2Hz,The amplitude is below 1mm or less, and can be used in frequency 13.2~100Hz,The acceleration is less than 7m/S.

Main technical parameters

Main parameters and technical performance indicators (see table below)

| Rated 380V | AC-3 | 9 | 12 | 18 | 25 | 32 | 40 | 50 | 65 | 80 | 95 | | | |
|--|------------|--|-------------|-------------|--------------|---------------------------------|-----------|-----------|-----------|------------|------------|--|--|--|
| | AC-4 | 3.5 | 5 | 7.7 | 7.7 | 12 | 18.5 | 24 | 28 | 37 | 44 | | | |
| | AC-3 | 6.6 | 8.9 | 12 | 12 | 21 | 34 | 39 | 42 | 49 | 49 | | | |
| | AC-4 | 1.5 | 2 | 3.8 | 4.4 | 7.5 | 9 | 12 | 14 | 17.6 | 21.3 | | | |
| Free air heating current (A) | | 20 | 20 | 32 | 40 | 50 | 60 | 80 | 80 | 95 | 95 | | | |
| Rated insulation voltage (V) | | 690 | 690 | 690 | 690 | 690 | 690 | 690 | 690 | 690 | 690 | | | |
| Controllable three-phase | 220V | 2.2 | 3 | 4 | 5.5 | 7.5 | 11 | 15 | 18.5 | 22 | 25 | | | |
| squirrel cage Motor power(AC-3)kW | 380V | 4 | 5.5 | 7.5 | 11 | 15 | 18.5 | 22 | 30 | 37 | 45 | | | |
| | 660V | 5.5 | 7.5 | 10 | 15 | 18.5 | 30 | 37 | 37 | 45 | 45 | | | |
| Operating Electric life - | AC-3 | 1200 | 1200 | 1200 | 1200 | 600 | 600 | 600 | 600 | 600 | 600 | | | |
| | AC-4 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | | | |
| (Time/h) Mechanical life | 0 | 3600 | 3600 | 3600 | 3600 | 3600 | 3600 | 3600 | 3600 | 3600 | 3600 | | | |
| Electric life AC-3 (Million times) AC-4 | | 100 | 100 | 100 | 100 | 80 | 80 | 60 | 60 | 60 | 60 | | | |
| | | 20 | 20 | 20 | 20 | 20 | 15 | 15 | 15 | 10 | 10 | | | |
| Mechanical life(Million times) | | 1000 | 1000 | 1000 | 1000 | 800 | 800 | 800 | 800 | 600 | 600 | | | |
| Equipped with a fuse type | | RT16-2 | c | RT16-32 | RT16-40 | RT16-50 | RT16-63 | RT16-80 | | RT16-100 | RT16-12 | | | |
| | Root | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | | | |
| Cold Non prefabricated end c | ords m2 | 1/2.5 1/2.5 | 1/2.5 1/2.5 | 1.5/4 1.5/4 | 1.5/4 1.5/4 | 2.5/6 2.5/6 | 6/25 4/10 | 6/25 4/10 | 6/25 4/10 | 10/35 6/16 | 10/35 6/10 | | | |
| end Prefabricated end cord head Non - and end - head ha | ardline | 1/4 1/2.5 | 1/4 1/2.5 | 1.5/6 1.5/4 | 1.5/10 1.5/6 | 2.5/10 2.5/6 | 6/25 4/10 | 6/25 4/10 | 6/25 4/10 | 10/35 6/16 | 10/35 6/10 | | | |
| | Pull(VA) | 1/4 1/4 | 1/4 1/4 | 1.5/6 1.5/6 | 1.5/6 1.5/6 | 2.5/102.5/10 | 6/25 4/10 | 6/25 4/10 | 6/25 4/10 | 10/35 6/16 | 10/35 6/10 | | | |
| AC 50Hz | Keep(VA) | 70 | 70 | 70 | 110 | 110 | 200 | 200 | 200 | 200 | 200 | | | |
| | Power(W) | 8 | 8 | 8 | 11 | 11 | 20 | 20 | 20 | 20 | 20 | | | |
| | | 1.8~2.7 | 1.8~2.7 | 3~4 | 3~4 | 3~4 | 6~10 | 6~10 | 6~10 | 6~10 | 6~10 | | | |
| Range of motion | | Pull in voltage: 85%Us~110%Us; Release voltage: 20%Us~75Us | | | | | | | | | | | | |
| Basic parameters of auxilia | ry contact | AC-1 | 5: 360VA | DC-13 | 3: 33W | AC-15: 360VA DC-13: 33W Ith:10A | | | | | | | | |

Electric life curve



P/034

CJ20 Series of AC Contactor

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CJ19 Series of AC Contactor



Applicable scope

CJ20 series AC contactor (hereinafter referred to as the contactor), mainly for the exchange of 50Hz (or 60Hz), Rated working voltage to 660V, rated working current to 630A circuit, For remote connection and the use of sub - off circuit, and can be combined with the appropriate thermal overload relay to protect the circuit may occur. Contactor is in accordance with GB14048.4 standard.

Model and meaning CJ 20 - 📮



Normal working condition and installation condition

 \Box Ambient air temperature: -5°C~+40°C, Within 24 hours, the average value is no more than +35°C. Altitude: not more than 2000m.

- Air condition: the relative humidity of the air is not more than 50% when the maximum temperature is +40°C; At lower temperatures, there is a relatively high relative humidity, For example, +20°C 90%, take special measures due to temperature change should occasionally produce.
- Pollution level: 3.
- Installation category: class III.
- Installation conditions: the installation surface and the vertical surface of the slope is not greater than 5 degrees
- ... Impact vibration: the product should be installed and used in a place where there is no significant vibration, shock and vibration.

Main parameters and technical performance

Coil rated control supply voltage Us for: AC 50Hz:36V, 110V, 127V, 220V, 380V;

□ Mechanical life: CJ20-10, 16, 25, 40, 63, 160, 10000000 for 100 times. CJ20-250, 630, 6000000 for the 400 time

Main parameters and technical performance indicators (see Table 2).

| | | Free air heating current Ith(A) | The maximum power of three – phase squirre cage induction motor with the use of kW | | Operating cycles perhour /h | AC–3 Electric life (Million | Coil power Start/hold VA/VA | | |
|----------|-----|--|---|-----|--------------------------------------|-----------------------------------|-----------------------------------|----------|----------|
| | | | | | | | | | |
| CJ20-10 | | 10 | 2.2 | 4 | 4 | 1200 | 100 | 65/8.3 | RT16-20 |
| CJ20-16 | | 16 | 4.5 | 7.5 | 11 | | | 62/8.5 | RT16-32 |
| CJ20-25 | | 32 | 5.5 | 11 | 13 | | | 93/14 | RT16-20 |
| CJ20-40 | 690 | 55 | 11 | 22 | 22 | | | 175/19 | RT16-80 |
| CJ20-63 | | 80 | 18 | 30 | 35 | | 120 | 480/57 | RT16-180 |
| CJ20-100 | | 125 | 28 | 50 | 50 | | | 570/61 | RT16-250 |
| CJ20-160 | | 200 | 48 | 85 | 85 | | | 855/85.5 | RT16-315 |
| CJ20-250 | | 315 | 80 | 132 | - | 600 | 60 | 1710/152 | RT16-400 |
| CJ20-400 | 690 | 400 | 115 | 200 | 220 | | | 1710/152 | RT16-500 |
| CJ20-630 | | 630 | 175 | 300 | - | | | 3578/250 | RT16-630 |

Applicable scope

Model and meaning <u>CJ</u> 19 - <u></u> / <u></u>

CJ19 series switched capacitor contactor (hereinafter referred to as the contactor) is mainly used for AC 50Hz ~ 60Hz,Rated working voltage to 400V power line,For low voltage reactive power compensation equipment in put or removal of low voltage shunt capacitor. Contactor with rejectinrush current device, can effectively reduce the impact of capacitor switching inrush current and Over-voltage Suppression on off.

02Two normally closed(25A~43A)

Auxiliary contact number, using digital representation 20Express two normally open, 110pen and normally closed

21Express two normally open, 12Open two normally closed

- Basic specification code, in order to agree that the heat current





Working condition and installation condition

 \Box Ambient air temperature: -5°C~+40°C, Within 24 hours, the average value is no more than +35°C.

Design serial number

Switching capacitor contactor

(63A~95A)

- □ Installation location is not more than 2000m;
- Atmospheric condition: At 40°C, the relative temperature of the atmosphere is no more than 50%, At lower temperatures, the relative humidity can be allowed, 90% for example 20°C degrees, take special measures due to temperature change should occasionally produce. □ Pollution level: 3.
- The inclination of the ground and the vertical plane is not more than 5°.
- In the absence of explosive hazardous medium, and the medium is not sufficient to corrosion of metal and damage to the insulation of the gas and electricity in the presence of dust.
- □ In the rain and snow prevention equipment and is not a place full of steam.
- □ In a place where there is no significant shake, shock and vibration.

Main parameters and technical performance

| Electric life(Million times) | | 10 | 10 | 10 | 10 | 10 | | | |
|---------------------------------------|----------|---|----------|---------|---------|--------|--|--|--|
| Rated currentle(380V)A | | 17 | 23 | 29 | 43 | 63 | | | |
| Controllable capacitor | 220V | 6 | 9 | 10 | 15 | 22 | | | |
| Capacity(kwar) | 380V | 12 | 18 | 20 | 30 | 40 | | | |
| Rated insulation voltage(V) | | 500 | 500 | 500 | 500 | 500 | | | |
| Restraining inrush current capability | | 201e | 201e | 201e | 20Ie | 201e | | | |
| Action condition | | Pull: (85%~110%)Us Release: (20%~75%)Us | | | | | | | |
| Coil function(VA) Start/hold | | 70/8 | 110/11 | 110/11 | 200/20 | 200/20 | | | |
| Auxiliary contact control | capacity | | AC-15 36 | OVA; DC | -13 33W | | | | |
| Weight(kg) | | 0.44 | 0.63 | 0.64 | 1.4 | 1.5 | | | |