

# CNKNGLI

## ELECTRIC PRODUCT CATALOGUE

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Miniature Circuit Breaker / Residual Current Cuicuit Breaker / Moulded Case Circuit Breaker



KANGLING ELECTRIC APPLIANCE FACTORY

# BRIEF INTRODUCTION

Yueqing Kangling Electric Appliance Factory is a professional manufacturer located in the electric appliance zone of Liushi, Yueqing City-Chinese Electric Appliance City of Zhejiang Province, specializing in the R&D, manufacture and sale of low voltage electric applicants, such as MCB, MCCB, AC contactors, and other related products.

Competitive technical advantages, an outstanding R&D team, the most advanced inspection devices, national class production equipment, as well as state-of-the-art technology enable us to play a leading role in the same industry for our high quality products, which can compare with those imported ones.

Our factory covers a land area of 3000 square meters, with over 260 employees (including more than 50 management personnel and more than 30 technical personnel).

Our factory, with the aim of high quality and low price, offers superior OEM services, and has accumulated abundant experience in manufacturing low voltage electric appliances. We sincerely hope that buyers from home or abroad to cooperate with us.

*[Http://www.yqkangling.com](http://www.yqkangling.com)*

# QUALITY AS CORPORATE PHILOSOPHY

Through meticulousity and repeatedly hammered, we have founded the remarkable quality, Our products have passed through the domestic and foreign authentications including cULus, CB, CE, SEMKO, CQC,UL,VDE, and so on, Besides, MCB and AC contactor have got the patent for designed-appearance. We've got the certificate of ISO9001 In't quality system,etc.



# CONTENTS

## Miniature Circuit Breaker

|  |   |   |
|--|---|---|
| 01 CT1 Miniature Circuit Breaker                 | 13 BKN Miniature Circuit Breaker          | 26 KL-P(BH-P) Series Plug-in Circuit Breakers   |
| 02 C30N Miniature Circuit Breaker                | 13 BKM Miniature Circuit Breaker          | 27 BH Series Bolt-on Type Circuit Breakers      |
| 03 C45N Miniature Circuit Breaker                | 14 L7, L7N Miniature Circuit Breaker      | 28 KLQL Series Plug-in Circuit Breakers         |
| 03 Auxiliary aFor Miniature Circuit Breaker C45N | 15 S230 Miniature Circuit Breaker         | 29 KLQL1/2 Series Plug-in Circuit Breakers      |
| 04 C60N K60N C65N Miniature Circuit Breaker      | 15 DPE Miniature Circuit Breakers         | 30 KLQC Series Bolt-on Type Circuit Breakers    |
| 05 NC100H Miniature Circuit Breaker              | 16 SH201 Series Miniature Circuit Breaker | 31 S101 Screw Miniature Circuit Breaker         |
| 06 H6 Miniature Circuit Breaker                  | 17 AEG Series Miniature Circuit Breaker   | 31 THQL1', THQL1/2' Miniature Circuit Breaker   |
| 06 DPN Miniature Circuit Breaker                 | 18 E90 S90 Miniature Circuit Breaker      | 32 Hydraulic Magnetic Miniature Circuit Breaker |
| 07 MT MY MU MW MC Miniature Circuit Breaker      | 19 MT60 Series Miniature Circuit Breaker  | 34 SF Modular Changeover Switch                 |
| 08 DX-S Miniature Circuit Breaker                | 20 HWS-1 Series Miniature Circuit Breaker | 34 CTG-125 Isolating Switch                     |
| 09 DX-D Series Miniature Circuit Breaker         | 21 HWS-2 Series Miniature Circuit Breaker | 35 HL32-100 Isolating Switch                    |
| 10 DX-C Series Miniature Circuit Breaker         | 22 KFD-1 Series Plug-in Circuit Breakers  | 35 MI Isolating Switch                          |
| 11 5SQ Miniature Circuit Breaker                 | 23 KFD-2 Series Plug-in Circuit Breakers  | 36 Miniature Circuit Breaker Accessories        |
| 11 MBL Miniature Circuit Breakers                | 24 KFD3 Series Plug-in Circuit Breakers   | 36 Modular Indicator                            |
| 12 5SX Series Miniature Circuit Breaker          | 25 BLX Series Plug-in Circuit Breakers    | 36 Modular Socket                               |

## Moulded Case Circuit Breaker

|                                       |  |  |
|---------------------------------------|--|--|
| 37 NS Moulded Case Circuit Breaker    | 43 AB Moulded Case Circuit Breaker                     | 50 KLM3T Series Moulded Case Circuit Breaker |
| 38 CTM8 Moulded Case Circuit Breaker  | 44 M611 Motor Protection Circuit Breaker               | 51 KLPX Series Moulded Case Circuit Breaker  |
| 39 NF-CS Moulded Case Circuit Breaker | 45 GV Motor Protection Circuit Breaker                 | 52 KLM6 Series Moulded Case Circuit Breaker  |
| 39 NF-SS Moulded Case Circuit Breaker | 46 3VU1 Motor Protection Circuit Breaker               | 53 KLM8 Series Moulded Case Circuit Breaker  |
| 40 NF-CP Moulded Case Circuit Breaker | 46 3VE Motor Protection Circuit Breaker                | 55 KLM9 Series Moulded Case Circuit Breaker  |
| 40 NF-CW Moulded Case Circuit Breaker | 47 KLM3 Series Moulded Case Circuit Breaker            | 58 KLM10 Series Moulded Case Circuit Breaker |
| 41 EA SA Moulded Case Circuit Breaker | 49 KLM3-125/1P, 2P Series Moulded Case Circuit Breaker | 59 KLM11 Series Moulded Case Circuit Breaker |
| 42 CTM1 Moulded Case Circuit Breaker  |  | 61 KLM7 Series Moulded Case Circuit Breaker  |

## Residual Current Circuit Breaker

|   |   |   |
|---|---|---|
| 63 CTL1-63 Residual Current Circuit Breaker | 70 CTL8 Residual Current Device   | 74 C65NLE Residual Current Circuit Breaker with Over Current Protection |
| 64 F360 Residual Current Circuit Breaker    | 71 PFIM Residual Current Device   | 75 DZ30LE Earth Leakage Circuit Breaker with Over Current Protection    |
| 65 NFIN Residual Current Device             | 72 PG Residual Current Circuit Breaker  | 75 C60NLE Earth Leakage Circuit Breaker with Over Current Protection    |
| 66 FIN Residual Current Device              | 72 TG Residual Current Circuit Breaker  | 76 Surge Protector  |
| 67 FI-100 Residual Current Circuit Breaker  | 73 DZ47LE C45LE Residual Current Circuit Breaker with Over Current Protection | 77 DXL-D Series Residual Current Circuit Breaker                        |
| 68 ID Residual Current Circuit Breaker      | 74 NC100LE Residual Current Circuit Breaker with Over Current Protection      | 78 F7 RCBO Residual Current Device                                      |
| 69 HAG Residual Current Device              |   |   |
| 70 F1 Residual Current Circuit Breaker      |   |   |

# Miniature Circuit Breaker

## CT1 Miniature Circuit Breaker

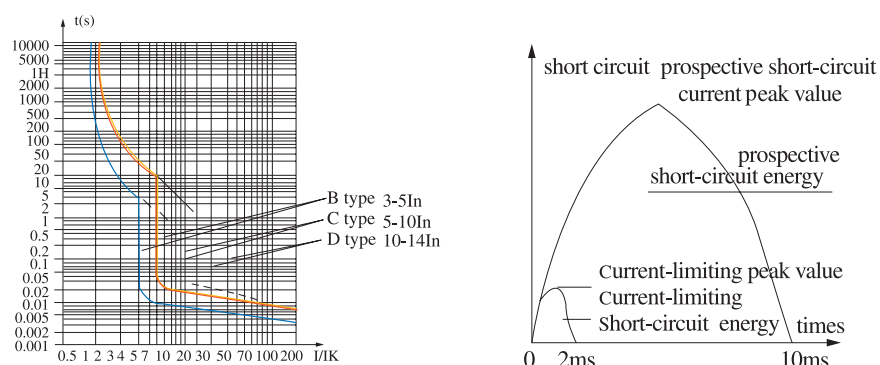
### Application

CT1 series circuit breaker is used in lighting distribution system or motor distribution system for protection overload and shortcircuit in the system. The product is neoteric in structure, light in weight, reliable and excellent in performance. It has high breaking capacity, can trip quickly, and its case and items are adopted by high fire-resistant and shockproof plastics. The product, with long life, is mainly used in AC 50Hz/60Hz single-pole 230V or two, three, four poles 400V circuit for overload and short-circuit protection as well as for unfrequent on-and-off switching electric equipment and lighting circuit in normal case. The products comply with IEC 60898.

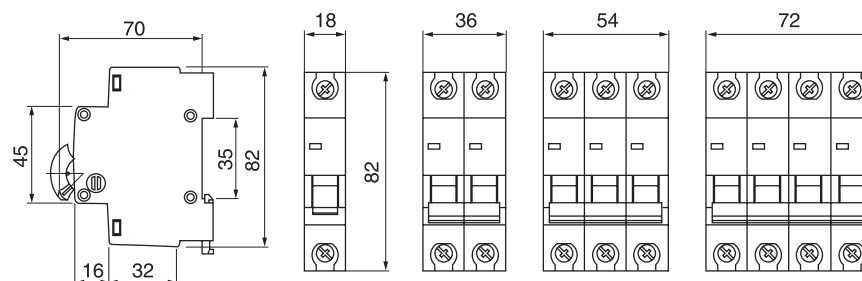
### Specifications

| Number of Poles          | 1P, 1P+N, 2P, 3P, 3P+N, 4P            |           |
|--------------------------|---------------------------------------|-----------|
| Rated Current (A)        | 1, 2, 3, 4, 6, 10, 16, 20, 25, 32, 40 | 50, 63    |
| Breaking Capacity (A)    | 6000/10000                            | 4500/6000 |
| Rated Voltage (V)        | 230/400                               |           |
| Rated Frequency          | 50/60Hz                               |           |
| Endurance                | ≥ 4000                                |           |
| Circumstance Temperature | -5°C~+40°C                            |           |
| Electrical Life          | no less than 6000 operations          |           |
| Mechanical Life          | (O-C) no less than 20000 operations   |           |
| Protection Degree        | IP20                                  |           |

### Characteristic Curve



### Dimensions



# Miniature Circuit Breaker

## C30N Miniature Circuit Breaker

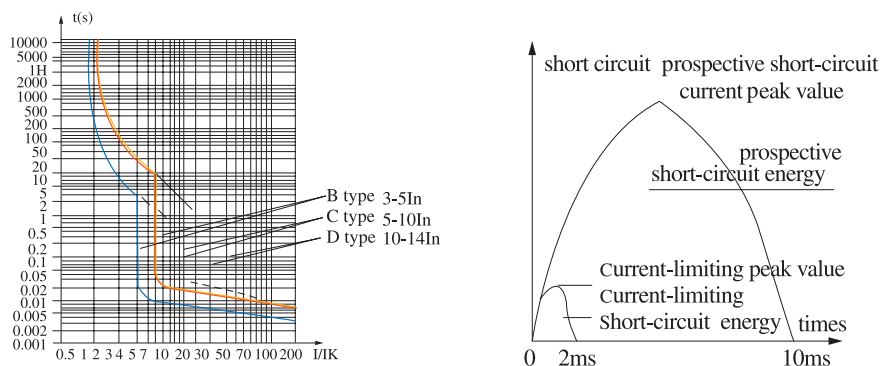
### Application

C30N series circuit breaker is used in lighting distribution system or motor distribution system for protection overload and short-circuit in the system. The product is neoteric in structure, light in weight, reliable and excellent in performance. It has high breaking capacity, can trip quickly, and its case and items are adopted by high fire-resistant and shockproof plastics. The product, with long life, is mainly used in AC 50Hz/60Hz single-pole 230V or two, three, four pole 400V circuit for overload and short-circuit protection as well as for unfrequent on-and-off switching electric equipment and lighting circuit in normal case. The products comply with IEC 60898.

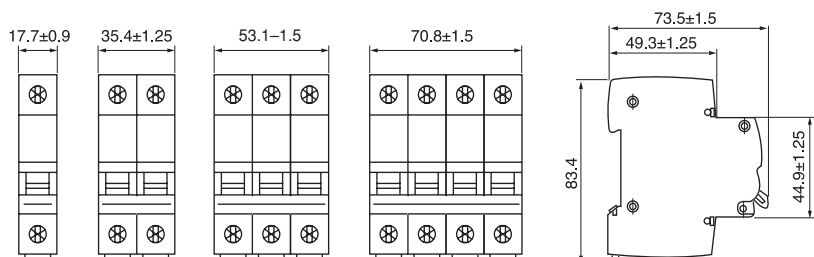
### Specifications

| Number of Poles          | 1P, 1P+N, 2P, 3P, 3P+N, 4P            |        |
|--------------------------|---------------------------------------|--------|
| Rated Current (A)        | 1, 2, 3, 4, 6, 10, 16, 20, 25, 32, 40 | 50, 63 |
| Breaking Capacity (A)    | 3000                                  |        |
| Rated Voltage (V)        | 230/400                               |        |
| Rated Frequency          | 50/60Hz                               |        |
| Endurance                | ≥ 4000                                |        |
| Circumstance Temperature | -5°C~+40°C                            |        |
| Electrical Life          | no less than 6000 operations          |        |
| Mechanical Life          | (O-C) no less than 20000 operations   |        |
| Protection Degree        | IP20                                  |        |

### Characteristic Curve



### Dimensions



# Miniature Circuit Breaker

## C45N Miniature Circuit Breaker

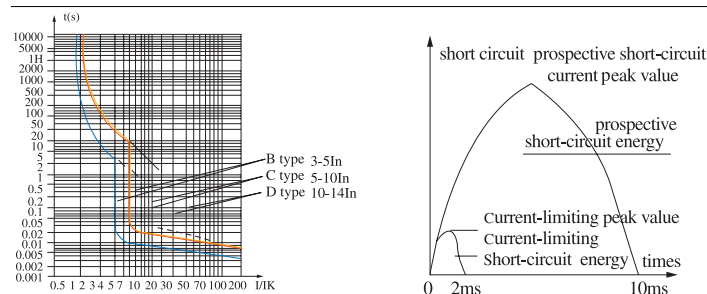
### Application

C45N series circuit breaker is used in lighting distribution system or motor distribution system for protection overload and short-circuit in the system. The product is neoteric in structure, light in weight, reliable and excellent in performance. It has high breaking capacity, can trip quickly, and its case and items are adopted by high fire-resistant and shockproof plastics. The product, with long life, is mainly used in AC 50Hz/60Hz single-pole 230V or two, three, four pole 400V circuit for overload and short-circuit protection as well as for unfrequent on-and-off switching electric equipment and lighting circuit in normal case. The products comply with IEC 60898.

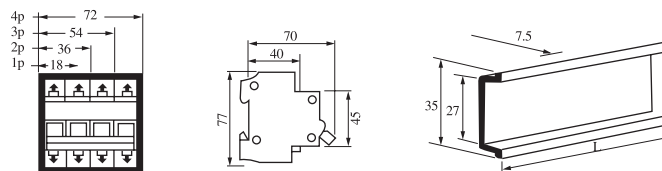
### Specifications

| Number of Poles          | 1P, 1P+N, 2P, 3P, 3P+N, 4P          |        |
|--------------------------|-------------------------------------|--------|
| Rated Current (A)        | 1, 2, 3, 4, 6, 10, 16, 20, 25, 32,  | 50, 63 |
| Breaking Capacity (A)    | 40                                  | 4500   |
| Rated Voltage (V)        | 230/400                             |        |
| Rated Frequency          | 50/60Hz                             |        |
| Endurance                | ≥ 4000                              |        |
| Circumstance Temperature | -5°C~+40°C                          |        |
| Electrical Life          | no less than 6000 operations        |        |
| Mechanical Life          | (O-C) no less than 20000 operations |        |
| Protection Degree        | IP20                                |        |

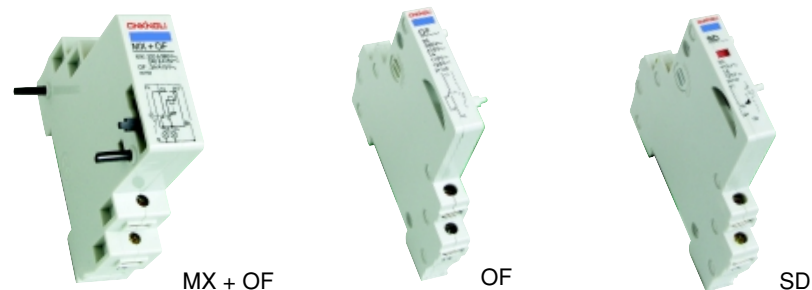
### Characteristic Curve



### Dimensions



## Auxiliary aFor Miniature Circuit Breaker C45N



# Miniature Circuit Breaker

## C60N K60N C65N Miniature Circuit Breaker

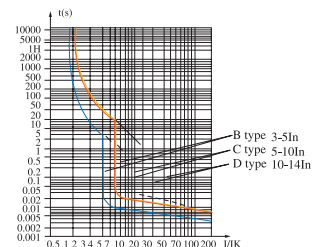
### Application

The series circuit breaker belongs to the advanced level of the nineties in the world instead of the old generation of C45N. They have protective functions against short circuit and overload, and are used in lighting distribution system in industry, commerce and dwelling, and protect fractional electric motors. They also have many merits of high breaking capacity, good reliability of sensitive action, convenient multi-pole assorting, long using life etc. They are mainly adapted to the circuit of AC 50/60Hz, 230V in single pole, 400V in double, three or four poles for protecting overload and short circuit. Meanwhile, they are also used in turning on or off the electric apparatus and lighting circuit under the normal condition. The products are produced according to IEC60898.

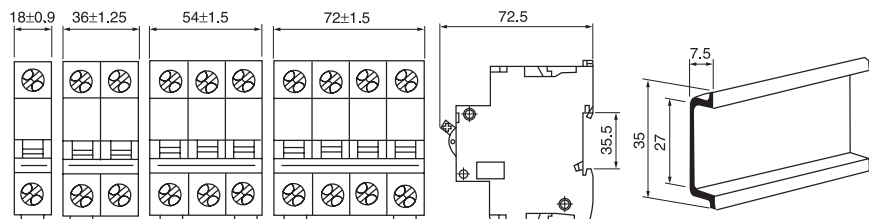
### Specifications

| Number of Poles          | 1P, 2P, 3P, 4P                      |        |
|--------------------------|-------------------------------------|--------|
| Rated Current (A)        | 1, 2, 3, 4, 6, 10, 16, 20, 25, 32,  | 50, 63 |
| Breaking Capacity (A)    | 40                                  | 4500   |
| Rated Voltage (V)        | 230/400                             |        |
| Rated Frequency          | 50/60Hz                             |        |
| Endurance                | ≥ 4000                              |        |
| Circumstance Temperature | -5°C~+40°C                          |        |
| Electrical Life          | no less than 6000 operations        |        |
| Mechanical Life          | (O-C) no less than 20000 operations |        |
| Protection Degree        | IP20                                |        |

### Characteristic Curve



### Dimensions



SD



OF



MX+OF

# Miniature Circuit Breaker

## NC100H Miniature Circuit Breaker



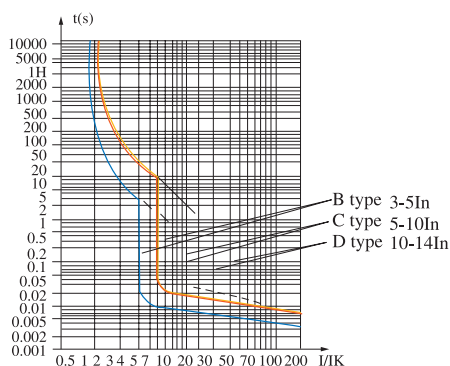
### Application

NC100H high breaking capacity miniature circuit breaker is used for AC 50Hz or 60Hz, single pole 240V, 2,3,4 poles 415V for protecting the circuit that overload and short circuit may take place. It can be used in lighting and electric motor distribution system. Meantime, it is applicable to an unfrequent switch over the electric apparatus and lighting circuit under normal condition. The products comply with IEC60898.

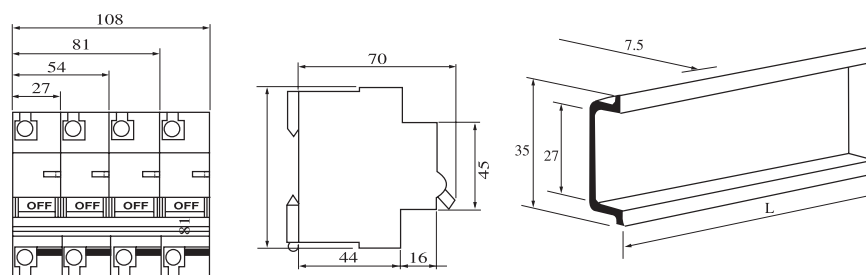
### Specifications

|                          |                                     |
|--------------------------|-------------------------------------|
| Number of Poles          | 1P, 2P, 3P, 4P                      |
| Rated Current (A)        | 32, 40, 50, 63, 80, 100, 125        |
| Breaking Capacity (A)    | 10000                               |
| Rated Voltage (V)        | 230/400                             |
| Rated Frequency          | 50/60Hz                             |
| Endurance                | ≥ 20000                             |
| Circumstance Temperature | -5°C~+40°C                          |
| Electrical Life          | no less than 6000 operations        |
| Mechanical Life          | (O-C) no less than 20000 operations |
| Protection Degree        | IP20                                |

### Characteristic Curve



### Dimensions



# Miniature Circuit Breaker

## H6 Miniature Circuit Breaker



H6 1P



H6 2P



DZ30



DPN

### Application

H6 miniature circuit breaker can be used in the building office, house, industry and similar building for illuminating in AC 50/60Hz, rated voltage below 415V, rated current 63A, circuit for overload and short-circuit protection as well as for unfrequent on-and-off switching electric equipment and lighting circuit in normal case. The products comply with IEC 60898.

### Specifications

| Pole Number | Rated Current (A)         | Rated Voltage (V) | Maximum Breaking Capacity | Electrical Life (times) | Mechanical Life (times) |
|-------------|---------------------------|-------------------|---------------------------|-------------------------|-------------------------|
| 1           | 6,10,16,20,25,32,40,50,63 | 240/415           | 6000A                     | 6000                    | 20000                   |
| 2           |                           |                   |                           |                         |                         |
| 3           |                           | 415               |                           |                         |                         |

## DPN Miniature Circuit Breaker

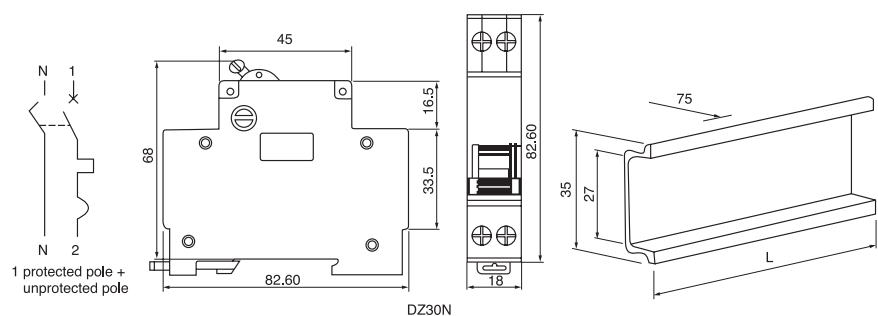
### Application

The product is applicable to protect line conductor and overload, and short circuit of small sealed motors. It is mainly for protection of circuits with AC 220V and 50Hz/60Hz, and for unfrequent conversion under normal conditions as well. Its action can be up to two pole with only one pole volume and be used as a leakage breaker by assembling with leakage. It is produced as per IEC 60898 standard.

### Technical Data

|                                 |                                   |
|---------------------------------|-----------------------------------|
| Rated Current (A) (at 30°C)     | 1, 2, 3, 4, 6, 10, 16, 20, 25, 32 |
| Rated Voltage (V)               | 220/240                           |
| Breaking capacity to IEC 60898  | 4500                              |
| Rated Frequency                 | 50/60Hz                           |
| Number of operating cycles(O-C) | ≥ 20000                           |
| Tripping characteristics        | B 3-5I <sub>n</sub>               |
|                                 | C 5-10I <sub>n</sub>              |

### Dimensions



# Miniature Circuit Breaker

## MT MY MU MW MC Miniature Circuit Breaker



MT



MU



MW

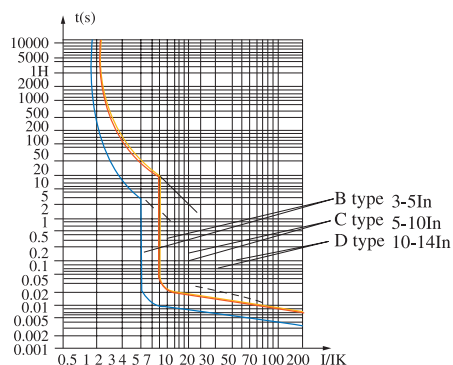
### Application

MT MY MU MW MC miniature circuit breaker is mainly suitable for overload and short circuit protection. It is especially used for illumination and distribution in industry and commerce. It is of pleasing outlook & high breaking capacity etc. Its frame and parts adopt plastics of light weight, reliable performance, high inflammable resistance and shock resistance for long service life. It is mainly used for overload and short circuit protection within the circuit of AC 50/60Hz, rated voltage of single pole up to 230V, two, three or four poles up to 400V. It can also be used for an unfrequent switchover of the circuit and illumination under normal conditions.

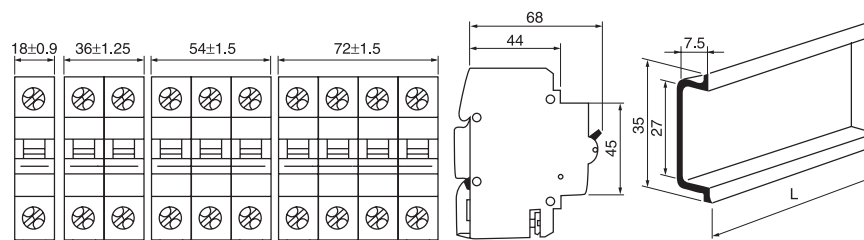
### Specifications

| Number of Poles          | 1P, 2P, 3P, 4P                                      |        |
|--------------------------|---|--------|
| Rated Current (A)        | 1, 2, 3, 4, 6, 10, 16, 20, 25, 32, 40               | 50, 63 |
| Breaking Capacity (A)    | 6000  | 4500   |
| Rated Voltage (V)        | 230/400   |        |
| Rated Frequency          | 50/60Hz   |        |
| Endurance                | 1-32A 20,000 Operations<br>40-63A 10,000 Operations |        |
| Circumstance Temperature | -5°C~+40°C  |        |
| Electrical Life          | no less than 6000 operations                        |        |
| Mechanical Life          | (O-C) no less than 20000 operations                 |        |
| Protection Degree        | IP20  |        |

### Characteristic Curve



### Dimensions



# Miniature Circuit Breaker

## DX-S Miniature Circuit Breaker

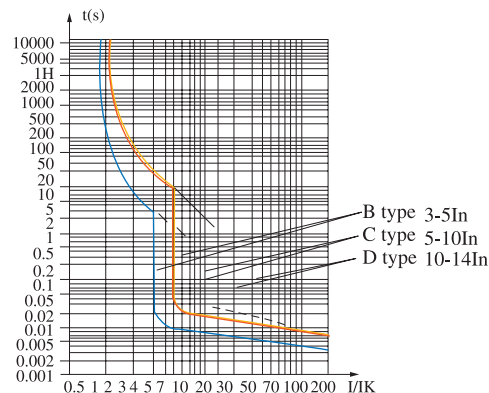
### Application

DX-S miniature circuit breaker is mainly suitable for overload and short circuit protection. It is especially used for illumination and distribution in industry and commerce, etc. It has pleasing outlook & high breaking capacity, reliable performance, high inflammable resistance and shock resistance for long service life. It is within the circuit of AC 50/60Hz, rated voltage of single pole up to 230V, two, three or four poles up to 400V. It can also be used for an unfrequent change over of the circuit and illumination under normal condition.

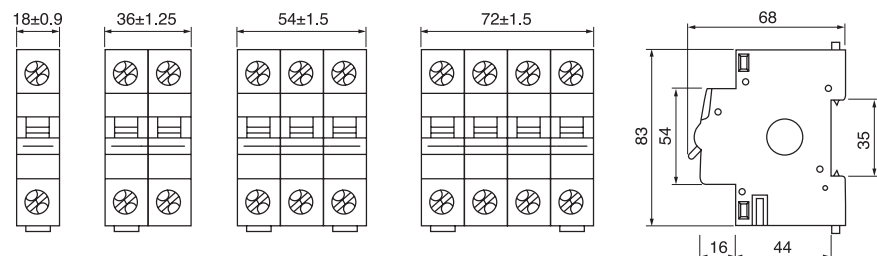
### Specifications

|                         |   |
|-------------------------|---|
| Breaking Capacity (A)   | 6000                                    |
| Rated Voltage (V)       | 230/400                                 |
| Rated Current (A)       | 1, 3, 6, 10, 16, 20, 25, 32, 40, 50, 63 |
| Standard                | IEC 60898                               |
| Number of Poles         | 1P, 2P, 3P                              |
| Electrical Life (times) | 8000                                    |
| Mechanical Life (times) | 20000                                   |

### Characteristic Curve



### Dimensions



# Miniature Circuit Breaker

## DX-D Series Miniature Circuit Breaker

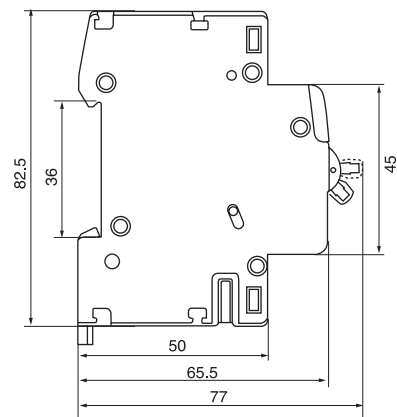
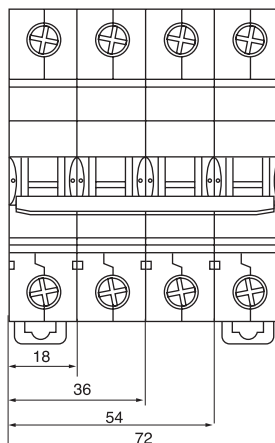
### Construction and Feature

- Protection against both overload and short circuit
- High short-circuit capacity
- Contact position indication
- 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
- Ultimate short-circuit capacity(Icu):6KA
- Rated frequency:50/60Hz
- Energy limiting class:3
- Rated impulse withstand voltage:6.2KV
- Electro-mechanical endurance:6000
- Connection terminal:
  - ☐ Screw terminal
  - ☐ Pillar terminal with clamp
- Connection capacity:Rigid conductor up to 25mm<sup>2</sup>
- Fastening torque:2.0Nm
- Installation:
  - ☐ On symmetrical DIN rail 35mm
  - ☐ Panel mounting
- Terminal Connection Height:19mm

### Overall & Installation Dimensions



# Miniature Circuit Breaker

## DX-C Series Miniature Circuit Breaker

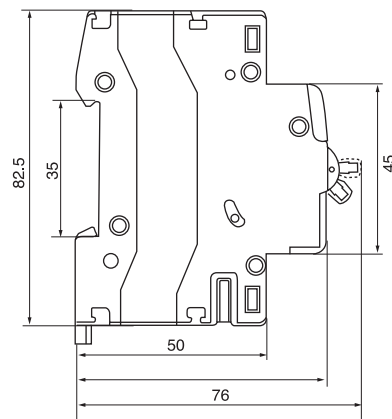
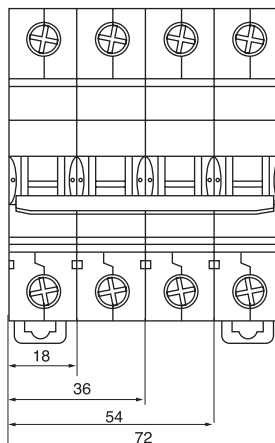
### Construction and Feature

- Protection against both overload and short circuit
- High short-circuit capacity
- Contact position indication
- 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
- Ultimate short-circuit capacity(Icu):6KA
- Rated frequency:50/60Hz
- Energy limiting class:3
- Rated impulse withstand voltage:6.2KV
- Electro-mechanical endurance:6000
- Connection terminal:
  - ☐ Screw terminal
  - ☐ Pillar terminal with clamp
- Connection capacity:Rigid conductor up to 25mm<sup>2</sup>
- Fastening torque:2.0Nm
- Installation:
  - ☐ On symmetrical DIN rail 35mm
  - ☐ Panel mounting
- Terminal Connection Height:19mm

### Overall & Installation Dimensions



# Miniature Circuit Breaker

## 5SQ Miniature Circuit Breaker



### Application

5SQ series miniature circuit breaker is mainly suitable for overload and short circuit protection. It is especially used for illumination and distribution in industry and commerce. It is of pleasing out-look, light weight, reliable performance, high breaking capacity, etc. Its frame and parts adopt plastics of high inflammable resistance and shock resistance for long service life. It is mainly used for overload and short circuit protection within the circuit of AC 50/60 Hz, rated voltage of single pole up to 230V, two, three or four poles up to 400V. It can also be used for an unfrequent switchover of the circuit and illumination under normal conditions.

### Specifications

|                             |   |
|-----------------------------|---|
| Number of Poles             | 1P, 2P, 3P                              |
| Rated current (A)           | 2, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63 |
| Rated voltage (V)           | 230/400 AC                              |
| Frequency                   | 50/60Hz                                 |
| Rated breaking capacity (A) | 3000                                    |

## MBL Miniature Circuit Breakers



### Application

MBL series circuit breaker is used in lighting distribution system or motor distribution system for protection overload and short-circuit in the system. The product is neoteric in structure, light in weight, reliable and excellent in performance. It has high breaking capacity, can trip quickly, and its case and items are adopted by high fire-resistant and shockproof plastics. The product, with long life, is mainly used in AC 50Hz/60Hz single-pole 230V or two, three, four-pole 400V circuit for overload and short-circuit protection as well as for unfrequent on-and-off switching electric equipment and lighting circuit in normal case. The products comply with IEC 60898.

### Specifications

|                          |   |        |
|--------------------------|---|--------|
| Number of Poles          | 1P, 2P, 3P                                |        |
| Rated Current (A)        | 1, 2, 4, 6, 8, 10, 13, 16, 20, 25, 32, 40 | 50, 63 |
| Breaking Capacity (kA)   | 6000                                      | 4500   |
| Rated Voltage (V)        | 230/400                                   |        |
| Rated Frequency          | 50/60Hz                                   |        |
| Endurance                | ≥ 4000                                    |        |
| Circumstance Temperature | -5°C~+40°C                                |        |
| Electrical Life          | no less than 6000 operations              |        |
| Mechanical Life          | (O-C) no less than 20000 operations       |        |
| Protection Degree        | IP20                                      |        |

# Miniature Circuit Breaker

## 5SX Series Miniature Circuit Breaker

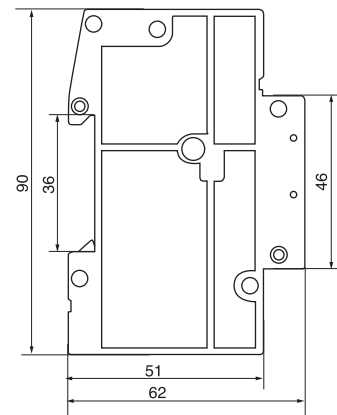
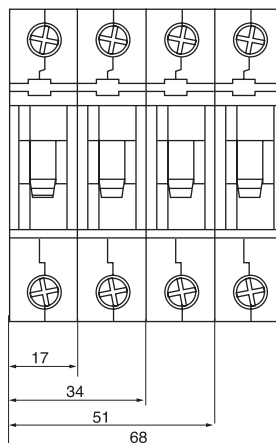
### Construction and Feature

- Protection against both overload and short circuit
- High short-circuit capacity
- Contact position indication
- 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
- Ultimate short-circuit capacity(Icu):3KA
- Rated frequency:50/60Hz
- Energy limiting class:3
- Rated impulse withstand voltage:6.2KV
- Electro-mechanical endurance:4000
- Connection terminal:
  - ☐ Screw terminal
  - ☐ Pillar terminal with clamp
- Connection capacity:Rigid conductor up to 25mm<sup>2</sup>
- Fastening torque:2.0Nm
- Installation:
  - ☐ On symmetrical DIN rail 35mm
  - ☐ Panel mounting
- Terminal Connection Height:19mm

### Overall & Installation Dimensions



# Miniature Circuit Breaker

## BKN Miniature Circuit Breaker



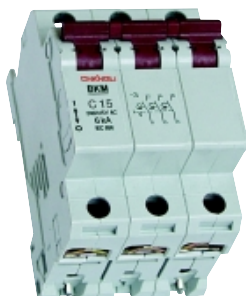
### Application

BKN series circuit breaker is used in lighting distribution system or motor distribution system for protection overload and short-circuit in the system. The product is neoteric in structure, light in weight, reliable and excellent in performance. It has high breaking capacity, can trip quickly, and its case and items are adopted by high fire-resistant and shockproof plastics. The product, with long life, is mainly used in AC 50Hz/60Hz single pole 230V or two, three, four poles 400V circuit for overload and short-circuit protection as well as for unfrequent on-and-off switching electric equipment and lighting circuit in normal case. The products comply with IEC 60898.

### Specifications

|                          |                                     |        |
|--------------------------|-------------------------------------|--------|
| Number of Poles          | 1P, 2P, 3P, 4P                      |        |
| Rated Current (A)        | 2, 4, 6, 10, 16, 20, 25, 32, 40     | 50, 63 |
| Breaking Capacity (A)    | 6000                                | 4500   |
| Rated Voltage (V)        | 230/400                             |        |
| Rated Frequency          | 50/60Hz                             |        |
| Endurance                | ≥ 4000                              |        |
| Circumstance Temperature | -5°C~+40°C                          |        |
| Electrical Life          | no less than 6000 operations        |        |
| Mechanical Life          | (O-C) no less than 20000 operations |        |
| Protection Degree        | IP20                                |        |

## BKM Miniature Circuit Breaker



### Application

BKM series circuit breaker is used in lighting distribution system or motor distribution system for protection overload and short-circuit in the system. The product is neoteric in structure, light in weight, reliable and excellent in performance. It has high breaking capacity, can trip quickly, and its case and items are adopted by high fire-resistant and shockproof plastics. The product, with long life, is mainly used in AC 50Hz/60Hz single pole 230V or two, three, four poles 400V circuit for overload and short-circuit protection as well as for unfrequent on-and-off switching electric equipment and lighting circuit in normal case. The products comply with IEC 60898.

### Specifications

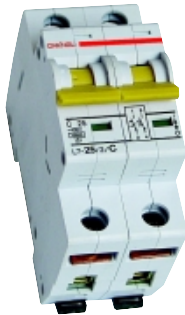
|                          |                                     |        |
|--------------------------|-------------------------------------|--------|
| Number of Poles          | 1P, 2P, 3P, 4P                      |        |
| Rated Current (A)        | 2, 4, 6, 10, 16, 20, 25, 32, 40     | 50, 63 |
| Breaking Capacity (A)    | 6000                                | 4500   |
| Rated Voltage (V)        | 230/400                             |        |
| Rated Frequency          | 50/60Hz                             |        |
| Endurance                | ≥ 4000                              |        |
| Circumstance Temperature | -5°C~+40°C                          |        |
| Electrical Life          | no less than 6000 operations        |        |
| Mechanical Life          | (O-C) no less than 20000 operations |        |
| Protection Degree        | IP20                                |        |

# Miniature Circuit Breaker

## L7, L7N Miniature Circuit Breaker



L7 1P



L7 2P



L7N 3P



L7 3P

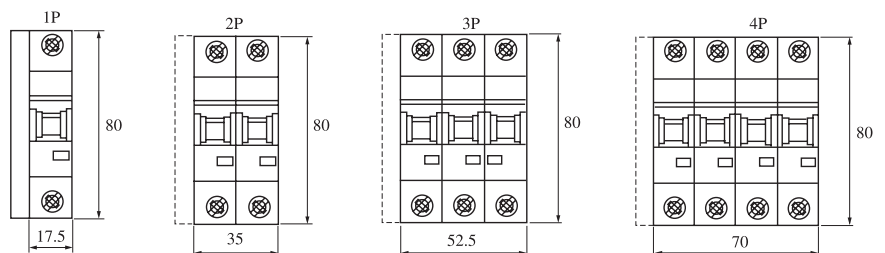
### Application

L7, L7N and L9 series circuit breaker are used in lighting distribution system or motor distribution system for protection overload and short-circuit in the system. The product is neoteric in structure, light in weight, reliable and excellent in performance. It has high breaking capacity, can trip quickly, and its case and items are adopted by high fire-resistant and shockproof plastics. The product, with long life, is mainly used in AC 50Hz/60Hz single pole 230V or two, three, four poles 400V circuit for overload and short-circuit protection as well as for unfrequent on-and-off switching electric equipment and lighting circuit in normal case. The products comply with IEC 60898.

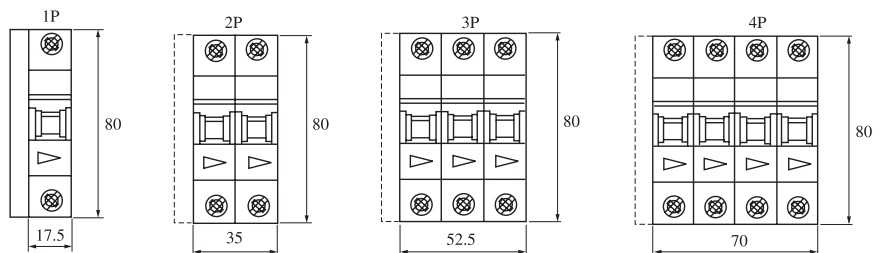
### Specifications

|                                       |  |
|---------------------------------------|--|
| Number of Poles                       | 1P, 2P, 3P, 4P   |
| Rated Current (A)                     | 2, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63                              |
| Rated Voltage (V)                     | 230V/400; 50/60Hz  |
| Rated Breaking Capacity (A)           | 10000  |
| Short Circuit Breaking Capacity of DC | Max. 48V(L7..., 10KA)single pole<br>Max. 250V(L7-DC, 6KA)single pole |
| Performance                           | C, D characteristic curve  |
| Max.fuse That Can be Connected to     | 100AgL(>10KA)  |
| Selective Grade                       | 3  |
| Working Ambient Temperature           | -5~+40°C   |
| Enclosed Protective Class             | IP40(Under mounting)   |
| Electrical Life                       | not less than 8000 times operation                                   |
| Mechanical Life                       | not less than 20000 times operation                                  |

### Dimensions of L7 Miniature Circuit Breaker



### Dimensions of L7N Miniature Circuit Breaker



# Miniature Circuit Breaker

## S230 Miniature Circuit Breaker



S230 1P



S230 2P

### Application

S230 miniature circuit breaker has features of new structure, excellent performance, easy installation, high breaking capacity. It is mainly used for overload and short circuit protection of AC 50Hz or 60Hz, rated voltage of single pole up to 230V, rated current up to 60A and in distribution of illumination of industry, commerce and buildings.

### Specifications

According with standard: IEC 60898

| Rated current<br>(A)              | Pole number<br>(P) | Rated voltage<br>(V) | Rated Frequency<br>(Hz) | Breaking capacity<br>(A) |
|-----------------------------------|--------------------|----------------------|-------------------------|--------------------------|
| 2,4,6,10,16,20,<br>25,32,40,50,63 | 1                  | 230                  | 50/60                   | 6000                     |
|                                   | 2, 3               | 230/400              |                         |                          |

### Dimensions



## DPE Miniature Circuit Breakers



DPE 1P



DPE 3P

### Application

DPE series circuit breaker is used in lighting distribution system or motor distribution system for protection overload and short-circuit in the system. The product is neoteric in structure, light in weight, reliable and excellent in performance. It has high breaking capacity, can trip quickly, and its case and items are adopted by high fire-resistant and shockproof plastics. The product, with long life, is mainly used in AC 50Hz/60Hz single-pole 230V or two, three, four-pole 400V circuit for overload and short-circuit protection as well as for unfrequent on-and-off switching electric equipment and lighting circuit in normal case. The products comply with IEC 60898.

### Specifications

| Number of Poles          | 1P, 2P, 3P                                |        |
|--------------------------|---|--------|
| Rated Current (A)        | 1, 2, 4, 6, 8, 10, 13, 16, 20, 25, 32, 40 | 50, 63 |
| Breaking Capacity (kA)   | 6000                                      | 4500   |
| Rated Voltage (V)        | 230/400                                   |        |
| Rated Frequency          | 50/60Hz                                   |        |
| Endurance                | ≥ 4000                                    |        |
| Circumstance Temperature | -5°C~+40°C                                |        |
| Electrical Life          | no less than 6000 operations              |        |
| Mechanical Life          | (O-C) no less than 20000 operations       |        |
| Protection Degree        | IP20                                      |        |

# Miniature Circuit Breaker

## SH201 Series Miniature Circuit Breaker

### Construction and Feature

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

### Technical Data

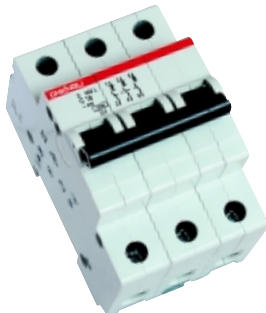
- Pole No:1,1P+N,2,3,3P+N,4
- Rated voltage:AC 230/400V
- Rated current(A):1,2,3,4,6,10,13,16,20,25,32,40,50,63
- Tripping curve:B,C,D
- Ultimate short-circuit capacity(Icu):6KA
- Rated frequency:50/60Hz
- Energy limiting class:3
- Rated impulse withstand voltage:6.2KV
- Electro-mechanical endurance:6000
- Connection terminal:
  - ☐ Screw terminal
  - ☐ Pillar terminal with clamp
- Connection capacity:Rigid conductor up to 25mm<sup>2</sup>
- Fastening torque:2.0Nm
- Installation:
  - ☐ On symmetrical DIN rail 35mm
  - ☐ Panel mounting
- Terminal Connection Height:19mm



SH201



SH202

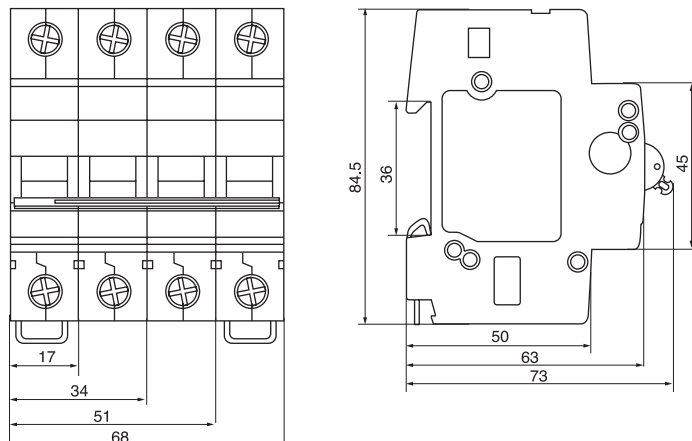


SH203



SH204

### Overall & Installation Dimensions



## AEG Series Miniature Circuit Breaker

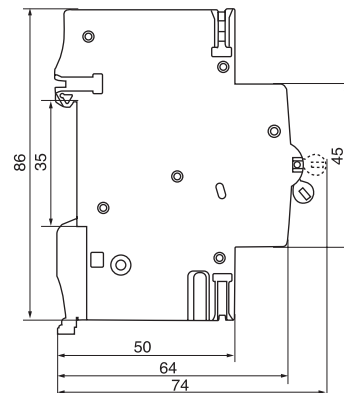
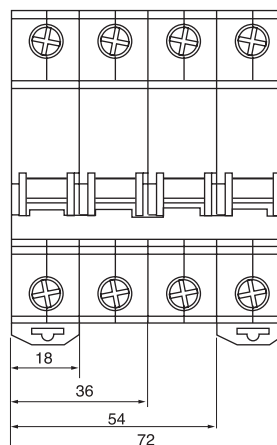
### Construction and Feature

- Protection against both overload and short circuit
- High short-circuit capacity
- Contact position indication
- 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
- Ultimate short-circuit capacity(Icu):6KA
- Rated frequency:50/60Hz
- Energy limiting class:3
- Rated impulse withstand voltage:6.2KV
- Electro-mechanical endurance:6000
- Connection terminal:
  - ☐ Screw terminal
  - ☐ Pillar terminal with clamp
- Connection capacity:Rigid conductor up to 25mm<sup>2</sup>
- Fastening torque:2.0Nm
- Installation:
  - ☐ On symmetrical DIN rail 35mm
  - ☐ Panel mounting
- Terminal Connection Height:19mm

### Overall & Installation Dimensions



# Miniature Circuit Breaker

## E90 S90 Miniature Circuit Breaker



E90 1P



E90 3P



S90 2P



S90 4P

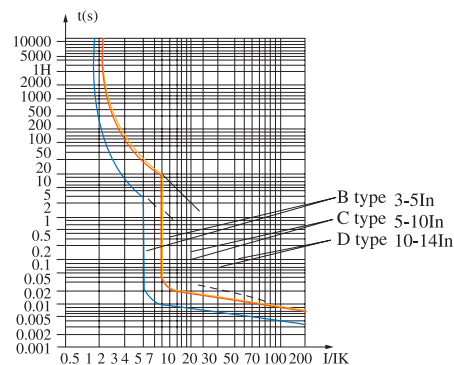
### Application

E90 S90 series circuit breaker is used in lighting distribution system or motor distribution system for protection overload and short-circuit in the system. The product is neoteris in structure, light in weight, reliable and excellent in performance. It has high breaking capacity, can trip quickly, and its case and items are adopted by high fire-resistant and shockproof plastics. The product, with long life, is mainly used in AC 50Hz/60Hz single pole 230V or two, three, four pole 400V circuit for overload and short-circuit protection as well as for unfrequent on-and-off switching electric equipment and lighting circuit in normal case. The products comply with IEC 60898.

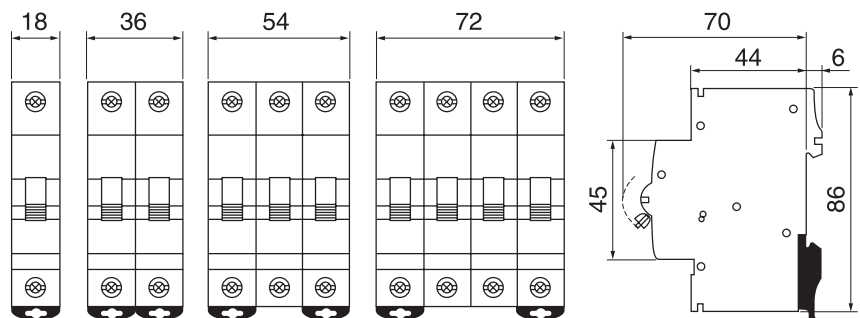
### Specifications

| Number of Poles          | 1P, 2P, 3P, 4P                        |        |
|--------------------------|---------------------------------------|--------|
| Rated Current (A)        | 1, 2, 3, 4, 6, 10, 16, 20, 25, 32, 40 | 50, 63 |
| Breaking Capacity (kA)   | 6000                                  | 4500   |
| Rated Voltage (V)        | 230/400                               |        |
| Rated Frequency          | 50/60Hz                               |        |
| Endurance                | ≥ 4000                                |        |
| Circumstance Temperature | -5°C~+40°C                            |        |
| Electrical Life          | no less than 6000 operations          |        |
| Mechanical Life          | (O-C) no less than 20000 operations   |        |
| Protection Degree        | IP20                                  |        |

### Characteristic Curve



### Dimensions



# Miniature Circuit Breaker

## MT60 Series Miniature Circuit Breaker

### Construction and Feature

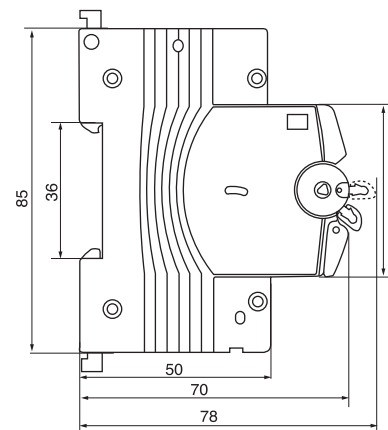
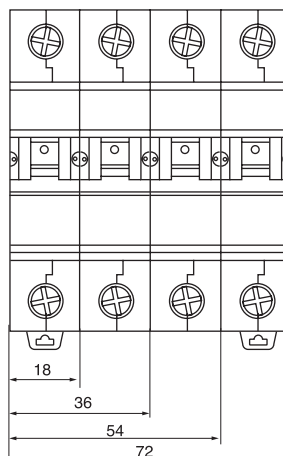
- Protection against both overload and short circuit
- High short-circuit capacity
- Applicable to terminal and pin/fork type busbar connection
- Easy mounting onto 35mm DIN rail

### 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(I<sub>cn</sub>): 10kA
- 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<sup>2</sup>
- Fastening torque: 2.0Nm
- Installation:
  - ☐ On symmetrical DIN rail 35mm
  - ☐ Panel mounting
- Terminal Connection Height: 21mm



### Overall & Installation Dimensions



# Miniature Circuit Breaker

## HWS-1 Series Miniature Circuit Breaker

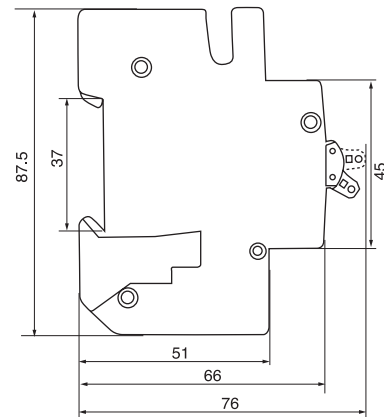
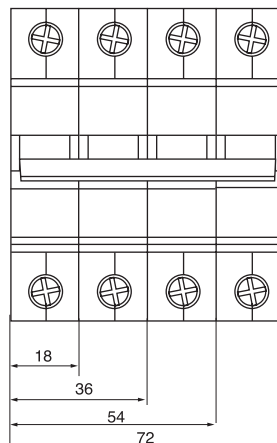
### Construction and Feature

- 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<sup>2</sup>
- Fastening torque:2.0Nm
- Installation:
  - ☐ On symmetrical DIN rail 35mm
  - ☐ Panel mounting
- Terminal Connection Height:21mm

### Overall & Installation Dimensions



## HWS-2 Series Miniature Circuit Breaker

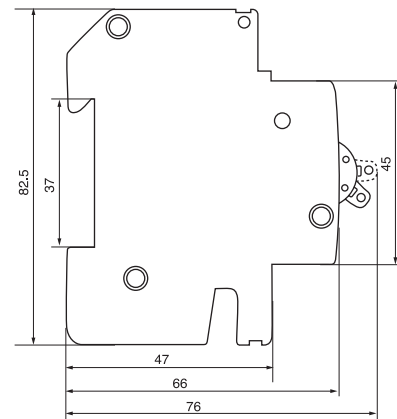
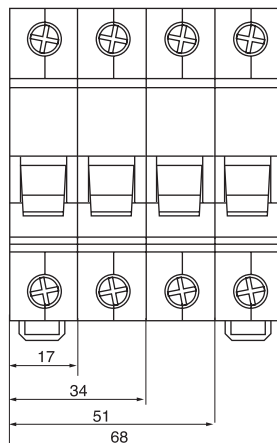
### Construction and Feature

- Protection against both overload and short circuit
- High short-circuit capacity
- Contact position indication
- 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
- Ultimate short-circuit capacity(Icu):6KA
- Rated frequency:50/60Hz
- Energy limiting class:3
- Rated impulse withstand voltage:6.2KV
- Electro-mechanical endurance:4000
- Connection terminal:
  - ☐ Screw terminal
  - ☐ Pillar terminal with clamp
- Connection capacity:Rigid conductor up to 25mm<sup>2</sup>
- Fastening torque:2.0Nm
- Installation:
  - ☐ On symmetrical DIN rail 35mm
  - ☐ Panel mounting
- Terminal Connection Height:19mm

### Overall & Installation Dimensions



# Plug-in Circuit Breakers

## KFD-1 Series Plug-in Circuit Breakers

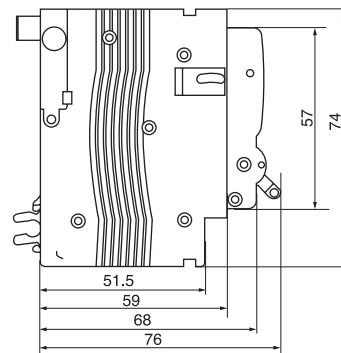
### Construction and Feature

- Protection against both overload and short circuit
- High short-circuit capacity
- Applicable to terminal and pin/fork type busbar connection

### 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):10kA
- 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<sup>2</sup>
- Fastening torque:2.0Nm
- Installation:
  - ☐ Clips pan assembly base
  - ☐ Panel mounting
- Terminal Connection Height:21mm

### Overall & Installation Dimensions



# Plug-in Circuit Breakers

## KFD-2 Series Plug-in Circuit Breakers

### Description

- For protection against overload and short circuits in the electrical distribution system.
- Use in domestic, commercial and light industrial installations.

### Technical Data

Conform to IEC 60898, BS 3871-Pt1  
 Body material: Bakelite  
 Rated Current: 5-100A  
 Rated Voltage: 120, 120/240, 240/440V AC  
 Breaking Capacity: 6kA  
 Frequency: 50/60Hz  
 Degree of protection: IP20

### Connection

Clamp terminal

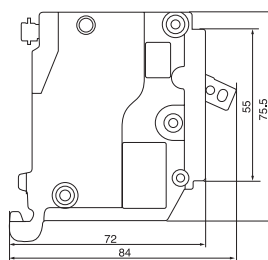
Mounting:

Clips mounting base

### Specification

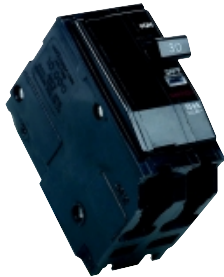
| Designation             | Rating(Amps) | Pack Qty. | Cat.No.    |
|-------------------------|--------------|-----------|------------|
| Single pole<br>1" width | 5A           | 10        | KFD-2 105  |
|                         | 10A          | 10        | KFD-2 110  |
|                         | 15A          | 10        | KFD-2 115  |
|                         | 20A          | 10        | KFD-2 120  |
|                         | 30A          | 10        | KFD-2 130  |
|                         | 40A          | 10        | KFD-2 140  |
|                         | 50A          | 10        | KFD-2 150  |
|                         | 60A          | 10        | KFD-2 160  |
|                         | 75A          | 10        | KFD-2 175  |
|                         | 100A         | 10        | KFD-2 1100 |
| Double pole<br>2" width | 5A           | 5         | KFD-2 205  |
|                         | 10A          | 5         | KFD-2 210  |
|                         | 15A          | 5         | KFD-2 215  |
|                         | 20A          | 5         | KFD-2 220  |
|                         | 30A          | 5         | KFD-2 230  |
|                         | 40A          | 5         | KFD-2 240  |
|                         | 50A          | 5         | KFD-2 250  |
|                         | 60A          | 5         | KFD-2 260  |
|                         | 75A          | 5         | KFD-2 275  |
|                         | 100A         | 5         | KFD-2 2100 |
| Triple pole<br>3" width | 5A           | 3         | KFD-2 305  |
|                         | 10A          | 3         | KFD-2 310  |
|                         | 15A          | 3         | KFD-2 315  |
|                         | 20A          | 3         | KFD-2 320  |
|                         | 30A          | 3         | KFD-2 330  |
|                         | 40A          | 3         | KFD-2 340  |
|                         | 50A          | 3         | KFD-2 350  |
|                         | 60A          | 3         | KFD-2 360  |
|                         | 75A          | 3         | KFD-2 375  |
|                         | 100A         | 3         | KFD-2 3100 |

### Overall & Installation Dimensions



# Plug-in Circuit Breakers

## KFD-3 Series Plug-in Circuit Breakers



### Description

- For protection against overload and short circuits in the electrical distribution system.
- Use in domestic, commercial and light industrial installations.

### Technical Data

Conform to IEC 60898, BS 3871-Pt1  
 Body material: Glassfiber polyester/Bakelite  
 Rated Current: bakelite 5-100A  
 Rated Voltage: 120, 120/240, 240/440V AC  
 Breaking Capacity: 6kA  
 Frequency: 50/60Hz  
 Degree of protection: IP20

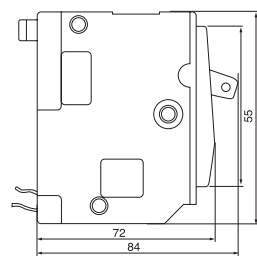
### Connection

Clamp terminal  
 Mounting:  
 Clips mounting base

### Specification

| Designation             | Rating(Amps) | Pack Qty. | Cat.No.    |
|-------------------------|--------------|-----------|------------|
| Single pole<br>1" width | 5A           | 10        | KFD-3 105  |
|                         | 10A          | 10        | KFD-3 110  |
|                         | 15A          | 10        | KFD-3 115  |
|                         | 20A          | 10        | KFD-3 120  |
|                         | 30A          | 10        | KFD-3 130  |
|                         | 40A          | 10        | KFD-3 140  |
|                         | 50A          | 10        | KFD-3 150  |
|                         | 60A          | 10        | KFD-3 160  |
|                         | 75A          | 10        | KFD-3 175  |
|                         | 100A         | 10        | KFD-3 1100 |
| Double pole<br>2" width | 5A           | 5         | KFD-3 205  |
|                         | 10A          | 5         | KFD-3 210  |
|                         | 15A          | 5         | KFD-3 215  |
|                         | 20A          | 5         | KFD-3 220  |
|                         | 30A          | 5         | KFD-3 230  |
|                         | 40A          | 5         | KFD-3 240  |
|                         | 50A          | 5         | KFD-3 250  |
|                         | 60A          | 5         | KFD-3 260  |
|                         | 75A          | 5         | KFD-3 275  |
|                         | 100A         | 5         | KFD-3 2100 |
| Triple pole<br>3" width | 5A           | 3         | KFD-3 305  |
|                         | 10A          | 3         | KFD-3 310  |
|                         | 15A          | 3         | KFD-3 315  |
|                         | 20A          | 3         | KFD-3 320  |
|                         | 30A          | 3         | KFD-3 330  |
|                         | 40A          | 3         | KFD-3 340  |
|                         | 50A          | 3         | KFD-3 350  |
|                         | 60A          | 3         | KFD-3 360  |
|                         | 75A          | 3         | KFD-3 375  |
|                         | 100A         | 3         | KFD-3 3100 |

### Overall & Installation Dimensions



# Plug-in Circuit Breakers

## BLX Series Plug-in Circuit Breakers

### Description

- For protection against overload and short circuits in the electrical distribution system.
- Use in domestic, commercial and light industrial installations.

### Technical Data

Conform to IEC 60898, BS 3871-Pt1  
 Body material: Bakelite  
 Rated Current: 5-100A  
 Rated Voltage: 120, 120/240, 240/440V AC  
 Breaking Capacity: 6kA  
 Frequency: 50/60Hz  
 Degree of protection: IP20

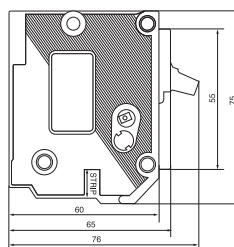
### Connection

Clamp terminal  
 Mounting: Clips mounting base

### Specification

| Designation             | Rating(Amps) | Pack Qty. | Cat.No. |
|-------------------------|--------------|-----------|---------|
| Single pole<br>1" width | 5A           | 10        | BLX105  |
|                         | 10A          | 10        | BLX110  |
|                         | 15A          | 10        | BLX115  |
|                         | 20A          | 10        | BLX120  |
|                         | 30A          | 10        | BLX130  |
|                         | 40A          | 10        | BLX140  |
|                         | 50A          | 10        | BLX150  |
|                         | 60A          | 10        | BLX160  |
|                         | 75A          | 10        | BLX175  |
| Double pole<br>2" width | 100A         | 10        | BLX1100 |
|                         | 5A           | 5         | BLX205  |
|                         | 10A          | 5         | BLX210  |
|                         | 15A          | 5         | BLX215  |
|                         | 20A          | 5         | BLX220  |
|                         | 30A          | 5         | BLX230  |
|                         | 40A          | 5         | BLX240  |
|                         | 50A          | 5         | BLX250  |
|                         | 60A          | 5         | BLX260  |
| Triple pole<br>3" width | 75A          | 5         | BLX275  |
|                         | 100A         | 5         | BLX2100 |
|                         | 5A           | 3         | BLX305  |
|                         | 10A          | 3         | BLX310  |
|                         | 15A          | 3         | BLX315  |
|                         | 20A          | 3         | BLX320  |
|                         | 30A          | 3         | BLX330  |
|                         | 40A          | 3         | BLX340  |
|                         | 50A          | 3         | BLX350  |
|                         | 60A          | 3         | BLX360  |
|                         | 75A          | 3         | BLX375  |
|                         | 100A         | 3         | BLX3100 |

### Overall & Installation Dimensions



# Plug-in Circuit Breakers

## KL-P(BH-P) Series Plug-in Circuit Breakers



### Description

- For protection against overload and short circuits in the electrical distribution system.
- Use in domestic, commercial and light industrial installations.

### Technical Data

Conform to IEC 60898, BS 3871-Pt1  
 Body material: Glassfiber polyester/Bakelite  
 Rated Current: 6-100A  
 Rated Voltage: 120, 120/240, 240/415V AC  
 Breaking Capacity: 6kA  
 Frequency: 50/60Hz  
 Degree of protection: IP20

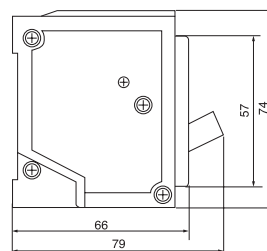
### Connection

Pillar type terminal  
 Mounting: clips pan assembly base  
 Plug-in mounting base

### Specification

| Designation             | Rating(Amps) | Pack Qty. | Cat.No. |          |
|-------------------------|--------------|-----------|---------|----------|
| Single pole<br>1" width | 6A           | 10        | BH-P106 | KL-P106  |
|                         | 10A          | 10        | BH-P110 | KL-P110  |
|                         | 16A          | 10        | BH-P116 | KL-P116  |
|                         | 20A          | 10        | BH-P120 | KL-P120  |
|                         | 25A          | 10        | BH-P125 | KL-P125  |
|                         | 30A          | 10        | BH-P130 | KL-P130  |
|                         | 40A          | 10        | BH-P140 | KL-P140  |
|                         | 50A          | 10        | BH-P150 | KL-P150  |
|                         | 60A          | 10        | BH-P160 | KL-P160  |
|                         | 75A          | 10        | -       | KL-P175  |
|                         | 100A         | 10        | -       | KL-P1100 |
| Double pole<br>2" width | 6A           | 5         | BH-P206 | KL-P206  |
|                         | 10A          | 5         | BH-P210 | KL-P210  |
|                         | 16A          | 5         | BH-P216 | KL-P216  |
|                         | 20A          | 5         | BH-P220 | KL-P220  |
|                         | 25A          | 5         | BH-P225 | KL-P225  |
|                         | 30A          | 5         | BH-P230 | KL-P230  |
|                         | 40A          | 5         | BH-P240 | KL-P240  |
|                         | 50A          | 5         | BH-P250 | KL-P250  |
|                         | 60A          | 5         | BH-P260 | KL-P260  |
|                         | 75A          | 5         | -       | KL-P275  |
|                         | 100A         | 5         | -       | KL-P2100 |
| Triple pole<br>3" width | 6A           | 3         | BH-P306 | KL-P306  |
|                         | 10A          | 3         | BH-P310 | KL-P310  |
|                         | 16A          | 3         | BH-P316 | KL-P316  |
|                         | 20A          | 3         | BH-P320 | KL-P320  |
|                         | 25A          | 3         | BH-P325 | KL-P325  |
|                         | 30A          | 3         | BH-P330 | KL-P330  |
|                         | 40A          | 3         | BH-P340 | KL-P340  |
|                         | 50A          | 3         | BH-P350 | KL-P350  |
|                         | 60A          | 3         | BH-P360 | KL-P360  |
|                         | 75A          | 3         | -       | KL-P375  |
|                         | 100A         | 3         | -       | KL-P3100 |

### Overall & Installation Dimensions



# Plug-in Circuit Breakers

## BH Series Bolt-on Type Circuit Breakers



### Description

- For protection against overload and short circuits in the electrical distribution system.
- Use in domestic, commercial and light industrial installations.

### Technical Data

Conform to IEC 60898

BS 3871-Pt1

Body material: Glassfiber polyester/Bakelite

Rated Current: 5-60A

Rated Voltage: 120,120/240,240/415V AC

Breaking Capacity: 3KA

Frequency: 50/60Hz

Degree of protection:IP20

### Connection

Clamp terminal

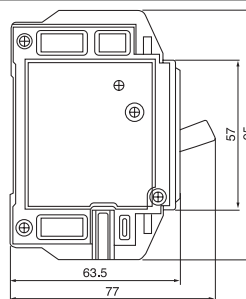
Mounting:

Clips mounting base

### Specification

| Designation             | Rating(Amps) | Pack Qty. | Cat.No. |
|-------------------------|--------------|-----------|---------|
| Single pole<br>1" width | 5A           | 10        | BH-105  |
|                         | 10A          | 10        | BH-110  |
|                         | 16A          | 10        | BH-116  |
|                         | 20A          | 10        | BH-120  |
|                         | 25A          | 10        | BH-125  |
|                         | 30A          | 10        | BH-130  |
|                         | 40A          | 10        | BH-140  |
|                         | 50A          | 10        | BH-150  |
|                         | 60A          | 10        | BH-160  |
| Double pole<br>2" width | 5A           | 5         | BH-205  |
|                         | 10A          | 5         | BH-210  |
|                         | 16A          | 5         | BH-216  |
|                         | 20A          | 5         | BH-220  |
|                         | 25A          | 5         | BH-225  |
|                         | 30A          | 5         | BH-230  |
|                         | 40A          | 5         | BH-240  |
|                         | 50A          | 5         | BH-250  |
|                         | 60A          | 5         | BH-260  |
| Triple pole<br>3" width | 5A           | 3         | BH-305  |
|                         | 10A          | 3         | BH-310  |
|                         | 16A          | 3         | BH-316  |
|                         | 20A          | 3         | BH-320  |
|                         | 25A          | 3         | BH-325  |
|                         | 30A          | 3         | BH-330  |
|                         | 40A          | 3         | BH-340  |
|                         | 50A          | 3         | BH-350  |
|                         | 60A          | 3         | BH-360  |

### Overall & Installation Dimensions



# Plug-in Circuit Breakers

## KLQL Series Plug-in Circuit Breakers

### Description

- For protection against overload and short circuits in the electrical distribution system.
- Use in domestic, commercial and light industrial installations.

### Technical Data

Conform to IEC 60898,UL489  
 Body material: Bakelite  
 Rated Current: 15-100A  
 Rated Voltage: 120,120/240,240/415V AC  
 AIC Rating: 10,000 RMS SYM  
 Degree of protection:IP20

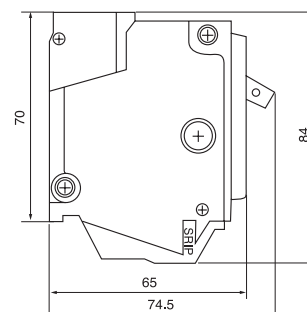
### Connection

Pillar type terminal  
 Mounting: clips pan assembly base  
 Plug-in mounting base

### Specification

| Designation             | Rating(Amps) | Pack Qty. | Cat.No.   |
|-------------------------|--------------|-----------|-----------|
| Single pole<br>1" width | 15A          | 10        | KLQL1115  |
|                         | 20A          | 10        | KLQL1120  |
|                         | 30A          | 10        | KLQL1130  |
|                         | 40A          | 10        | KLQL1140  |
|                         | 50A          | 10        | KLQL1150  |
|                         | 60A          | 10        | KLQL1160  |
|                         | 75A          | 10        | KLQL1175  |
|                         | 100A         | 10        | KLQL11100 |
| Double pole<br>2" width | 15A          | 5         | KLQL1215  |
|                         | 20A          | 5         | KLQL1220  |
|                         | 30A          | 5         | KLQL1230  |
|                         | 40A          | 5         | KLQL1240  |
|                         | 50A          | 5         | KLQL1250  |
|                         | 60A          | 5         | KLQL1260  |
|                         | 75A          | 5         | KLQL1275  |
|                         | 100A         | 5         | KLQL12100 |
| Triple pole<br>3" width | 15A          | 3         | KLQL1315  |
|                         | 20A          | 3         | KLQL1320  |
|                         | 30A          | 3         | KLQL1330  |
|                         | 40A          | 3         | KLQL1340  |
|                         | 50A          | 3         | KLQL1350  |
|                         | 60A          | 3         | KLQL1360  |
|                         | 75A          | 3         | KLQL1375  |
|                         | 100A         | 3         | KLQL13100 |

### Overall & Installation Dimensions



# Plug-in Circuit Breakers

## KLQL1/2 Series Plug-in Circuit Breakers



### Description

- For protection against overload and short circuits in the electrical distribution system.
- Use in domestic, commercial and light industrial installations.

### Technical Data

Conform to IEC 60898, UL489

Body material: Bakelite

Rated Current: 15-50A

Rated Voltage: 120, 120/240, 240/415V AC

AIC Rating: 10,000 RMS SYM

Degree of protection: IP20

### Connection

Pillar type terminal

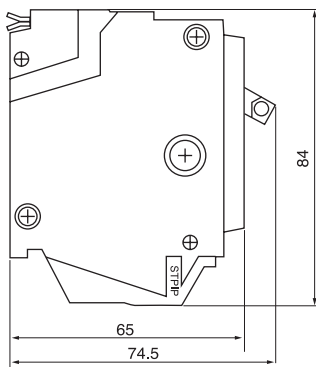
Mounting: clips pan assembly base

Plug-in mounting base

### Specification

| Designation               | Rating(Amps) | Pack Qty. | Cat.No.      |
|---------------------------|--------------|-----------|--------------|
| Single pole<br>1/2" width | 15A          | 10        | KLQL1/2 1115 |
|                           | 20A          | 10        | KLQL1/2 1120 |
|                           | 30A          | 10        | KLQL1/2 1130 |
|                           | 40A          | 10        | KLQL1/2 1140 |
|                           | 50A          | 10        | KLQL1/2 1150 |
| Double pole<br>1" width   | 15A          | 5         | KLQL1/2 1215 |
|                           | 20A          | 5         | KLQL1/2 1220 |
|                           | 30A          | 5         | KLQL1/2 1230 |
|                           | 40A          | 5         | KLQL1/2 1240 |
|                           | 50A          | 5         | KLQL1/2 1250 |

### Overall & Installation Dimensions



# Plug-in Circuit Breakers

## KLQC Series Bolt-on Type Circuit Breakers



### Description

- For protection against overload and short circuits in the electrical distribution system.
- Use in domestic, commercial and light industrial installations.

### Technical Data

Conform to IEC 60898,UL489  
 Body material: Bakelite  
 Rated Current: 15-100A  
 Rated Voltage: 120,120/240,240/415V AC  
 AIC Rating: 10,000 RMS SYM  
 Degree of protection:IP20

### Connection

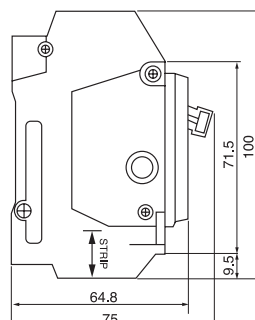
Clamp terminal  
 Mounting: Clips pan assembly base plug-in mounting base



### Specification

| Designation             | Rating(Amps) | Pack Qty. | Cat.No.   |
|-------------------------|--------------|-----------|-----------|
| Single pole<br>1" width | 15A          | 10        | KLQC2115  |
|                         | 20A          | 10        | KLQC2120  |
|                         | 30A          | 10        | KLQC2130  |
|                         | 40A          | 10        | KLQC2140  |
|                         | 50A          | 10        | KLQC2150  |
|                         | 60A          | 10        | KLQC2160  |
|                         | 75A          | 10        | KLQC2175  |
|                         | 100A         | 10        | KLQC21100 |
| Double pole<br>2" width | 15A          | 5         | KLQC2215  |
|                         | 20A          | 5         | KLQC2220  |
|                         | 30A          | 5         | KLQC2230  |
|                         | 40A          | 5         | KLQC2240  |
|                         | 50A          | 5         | KLQC2250  |
|                         | 60A          | 5         | KLQC2260  |
|                         | 75A          | 5         | KLQC2275  |
|                         | 100A         | 5         | KLQC22100 |
| Triple pole<br>3" width | 15A          | 3         | KLQC2315  |
|                         | 20A          | 3         | KLQC2320  |
|                         | 30A          | 3         | KLQC2330  |
|                         | 40A          | 3         | KLQC2340  |
|                         | 50A          | 3         | KLQC2350  |
|                         | 60A          | 3         | KLQC2360  |
|                         | 75A          | 3         | KLQC2375  |
|                         | 100A         | 3         | KLQC23100 |

### Overall & Installation Dimensions



### S101 Screw Miniature Circuit Breaker



S101



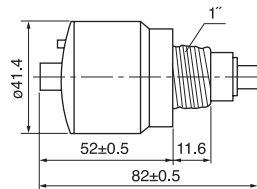
S101N

#### Application

The circuit breakers are suitable used in AC and DC 32A and below electric circuits of 50/60Hz, up to 380V and up to DC 250V respectively, for protection of electrical circuits and apparatus in office and residence buildings, and for protection of circuit terminals against overload and short circuit. The item is a durable protection that substitutes the traditional fuse element and can be used in each fuse socket with E27 thread according to DIN 40440.

#### Specifications

| Pole Number                          | Single Pole | Single Pole |
|--------------------------------------|-------------|-------------|
| Rated Current (A)                    | 2-25        | 32          |
| Rated Voltage (V)                    | 250/380     | 250/380     |
| Breaking Capacity (A)                | 3000        | 3000        |
| Power Factor for Testing Circuit (A) | 0.65-0.70   | 0.75-0.80   |



Note: The connecting thread of the circuit breaker is "1"



THQL-1P



THQL 1/2 1P

### THQL1', THQL1/2' Miniature Circuit Breaker

#### Application

THQL1/2' miniature circuit breaker applies to industrial, commercial, lighting and electric machine distribution system with AC415V, 50/60Hz, rated working current up to 100A to protect against overload and short circuit. The item is installed into plug-in type mounting base.

#### Specifications

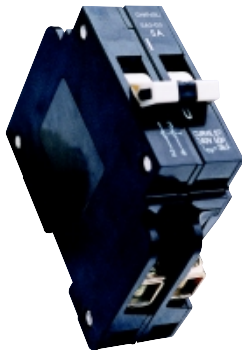
| Model                   | THQL1'   | THQL1/2' |
|-------------------------|--|----------|
| Number of Poles         | 1P, 2P, 3P   |          |
| Rated Current (A)       | 6, 10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 |          |
| Rated Voltage (V)       | 110/220 (1P), 240/415 (2P), 415 (3P)               |          |
| Breaking Capacity (A)   | 3000   |          |
| Electrical Life (Times) | 6000   |          |
| Mechanical Life (Times) | 20000  |          |

# Miniature Circuit Breaker

## Hydraulic Magnetic Miniature Circuit Breaker



SA1-G3



SA2-G3



SA3-G3

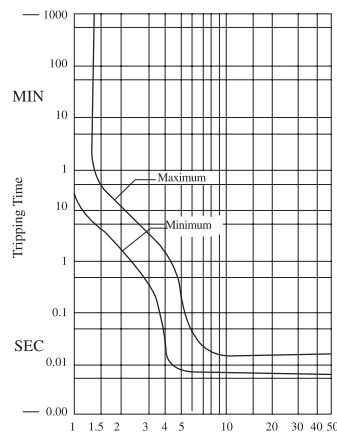
### Application

Hydraulic magnetic miniature circuit breaker are mainly suitable for overload and short circuit protection. It adopts hydraulic magnetic trip instead of bimetal. So it has a high sensitivity and it is also not effected by the ambient temperature. It is especially used for illumination and distribution in industry and commerce. They are mainly used for overload and short circuit protection within the circuit of AC 50Hz/60Hz, rated voltage of single pole or double poles up to 240V, three poles up to 415V. They can also be used for an unfrequent switch-over of the circuit and illumination under normal conditions. They comply with IEC 157-1973.

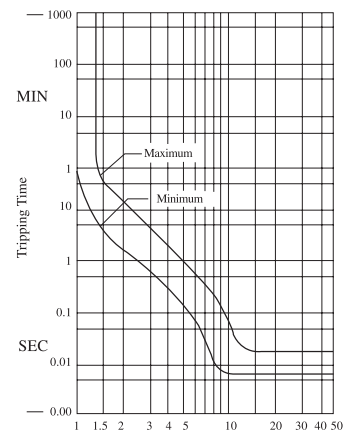
### Specifications

| Standard    | Rated current (A)                       | Poles (P) | Rated voltage (V) | Breaking capacity (A) |                |
|-------------|---|-----------|-------------------|-----------------------|----------------|
|             |   |           |                   | SA-G3                 | SF-G3<br>SX-G3 |
| IEC157-1973 | 3, 5, 6, 10, 16, 20, 25, 32, 40, 50, 63 | 1         | 230/240           | 3000                  | 6000           |
|             |   | 2, 3      | 400/415           | 3000                  | 6000           |

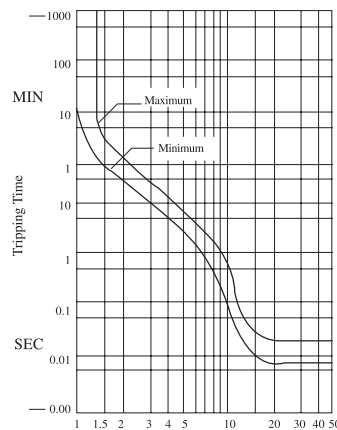
### Characteristic Curve



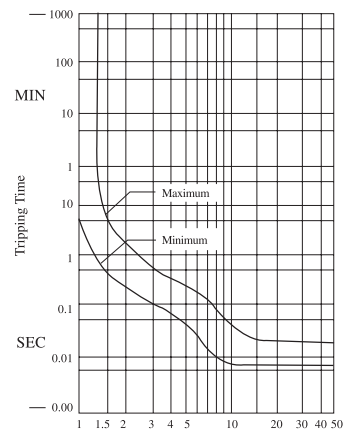
X Rated Current  
Type SA-G3-Standard Curve (AC)



X Rated Current  
Type SF/SX/SH & CF-G3-Curve2 (AC)



X Rated Current  
Type SF/SX/SH & CF-G3-Curve1 (AC)

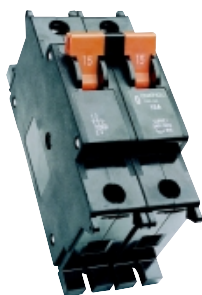


X Rated Current  
Type SF/SX/SH & CF-G3-Curve3 (AC)

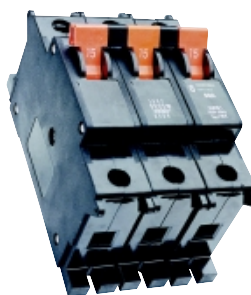
## Hydraulic Magnetic Miniature Circuit Breaker



SX1-G3



SX2-G3



SX3-G3



Indoor  
Surge Protector



SX2-G0/G3



SX4-G0/G3



SX2-G0/G3  
Enclosed type



SX4-G0/G3  
Enclosed type



TQA 1P



SF1-G3



SF2-G3



SF3-G3

# Miniature Circuit Breaker

## SF Modular Changeover Switch



SF 1P

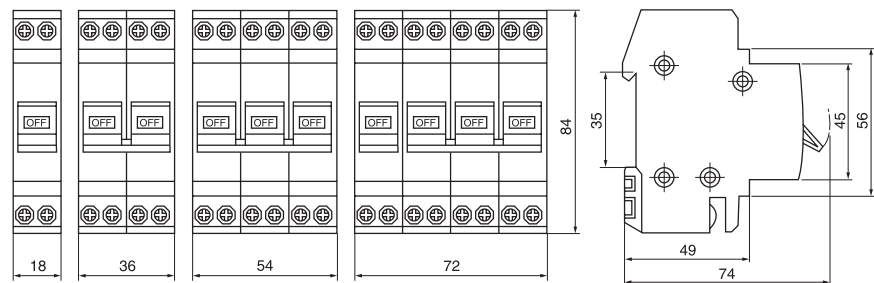


SF 3P

### Specifications

|                   |   |
|-------------------|---|
| Number of Poles   | 1P, 2P, 3P, 4P                          |
| Rated Current (A) | 10, 16, 20, 25, 32, 40, 50, 63, 80, 100 |
| Rated Voltage (V) | 230/400                                 |
| Rated Frequency   | 50/60Hz                                 |

### Dimensions



CTG-125



CTG-125

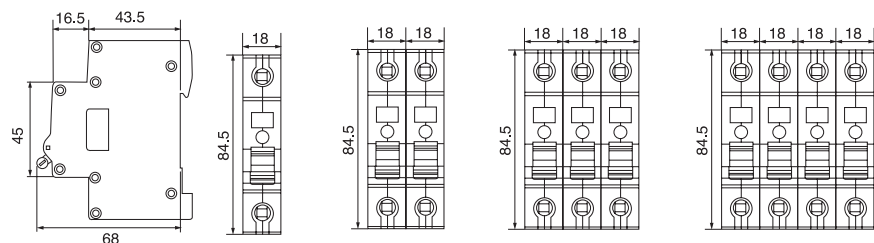
## CTG-125 Isolating Switch

### Application

CTG-125 Isolating switch is used as a main switch in distribution boxes in houses or as a switch for individual electric circuits.

|                   |                              |     |     |     |
|-------------------|------------------------------|-----|-----|-----|
| Number of Poles   | 1P                           | 2P  | 3P  | 4P  |
| Rated Voltage (V) | 230/400                      | 400 | 400 | 400 |
| Rated Current (A) | 16, 25, 40, 63, 80, 100, 125 |     |     |     |

### Dimensions



**Hydraulic Magnetic Miniature Circuit Breaker**

H7-1P



H7-2P



H7-3P

|                   |                         |
|-------------------|-------------------------|
| Number of Poles   | 1P, 2P, 3P, 4P          |
| Rated Current (A) | 16, 25, 40, 63, 80, 125 |
| Rated Voltage (V) | AC 230/240, 400/415(4P) |
| Frequency         | 50/60Hz                 |
| Endurance         | ≥ 10000                 |
| Protection degree | IP20                    |

**HL32-100 Isolating Switch**

HL32-100 1P



HL32-100 2P



HL32-100 3P

|                   |                            |                          |
|-------------------|----------------------------|--------------------------|
| Rated Voltage (V) | Rated Current of Trips (A) | Compliance With Standard |
| 1 Pole: 250V      | 16,20,32,40,63,80,100      | IEC60947-3               |
| 2,3,4 Pole: 415V  |                            |                          |

**MI Isolating Switch**

MI-140



MI-240



MI-340

|                   |                       |                          |
|-------------------|-----------------------|--------------------------|
| Rated Voltage (V) | Rated Current (A)     | Compliance With Standard |
| 1 Pole: 250V      | 16,20,32,40,63,80,100 | IEC60947-3               |
| 2,3,4 Pole: 415V  |                       |                          |

# Miniature Circuit Breaker

## Miniature Circuit Breaker Accessories



EP510



SU213



SU213N



TSBY-8

## Modular Indicator



C45D



SV1



SV3



C45DN

## Modular Socket



TMS-1



TMS-2



TMS-3



TMS-5



AH50 6A, 10A, 16A, 25A, 32A 40A, 50A, 63A