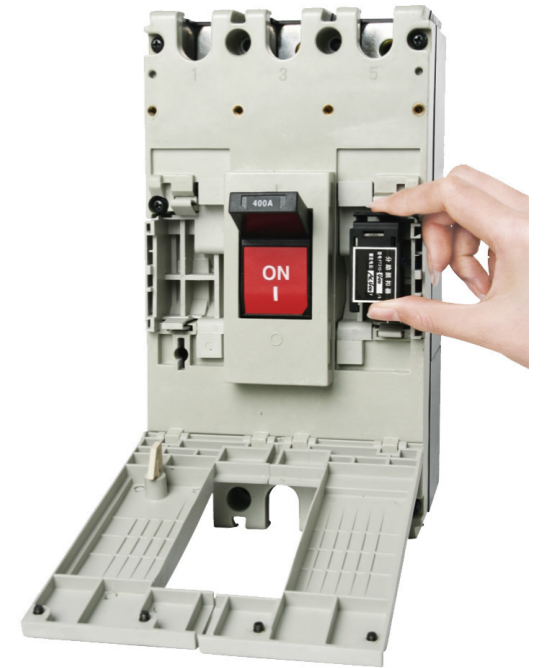


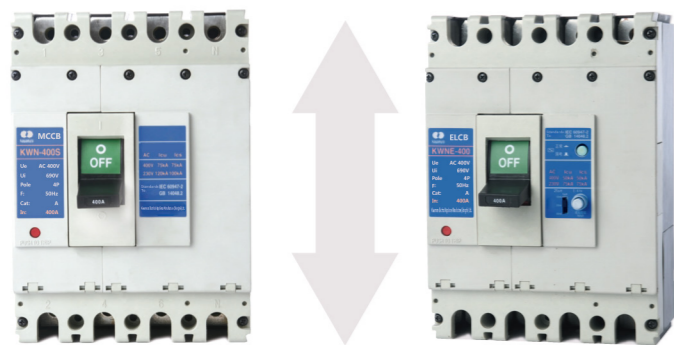
KWN Series Molded Case Circuit Breaker

Modularized Accessories

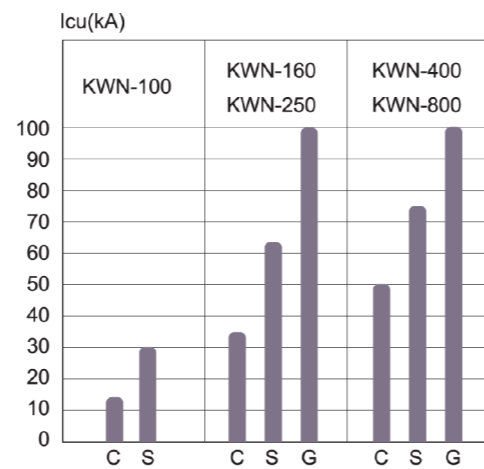
Auxiliary contact and alarm contact, under voltage trip and shunt trip can be assembled or replaced without opening the case.



MCCB·ELCB

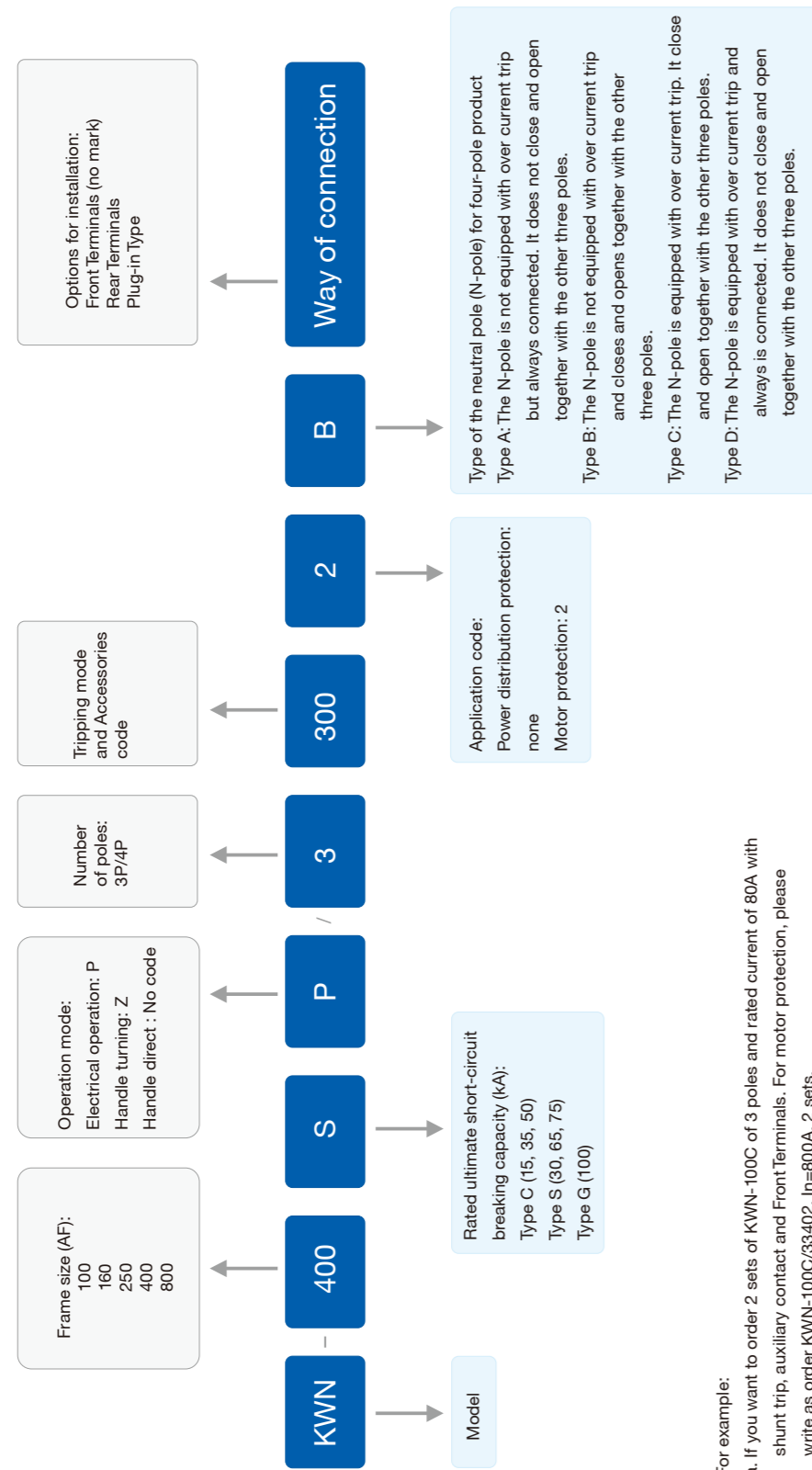


MCCB and ELCB have the same outline dimensions, and they are compatible.



MCCB with high short circuit breaking capacity

| | | |
|-----------------------|-----------------------------------|--------------------------------------------|
| <p>Shunt trip</p> | <p>Under voltage trip</p> | <p>Auxiliary contact and Alarm contact</p> |
| <p>Terminal cover</p> | <p>Manual operating mechanism</p> | <p>Electrical operating mechanism</p> |



For example:
 a. If you want to order 2 sets of KWN-100C of 3 poles and rated current of 80A with shunt trip, auxiliary contact and Front Terminals. For motor protection, please write as order KWN-100C/33402, In=800A, 2 sets.
 b. If you want to order 10 sets of KWN-250S of 4 poles and rated current of 200A with electrical operating mechanism, shunt trip and Rear Terminals for distribution protection, the neutral pole of which is equipped with over current trip and closes and opens together with the other three poles, please write as order KWN-250SP/4310C, In=200A, Rear Terminals, 10 sets.

Scope and Intended Use

KWN series molded case circuit breaker (hereinafter referred to as MCCB) is researched and developed by our corporation with international advanced design and manufacturing technology. The rated insulation voltage of MCCB is 690V. It applies to the circuits with the rated voltage not exceeding 400V, AC 50Hz, and rated current up to 800A for infrequently transferring circuits and infrequently starting motors (KWN-800 has no motor protection). MCCB provides the function of overload and short circuit protection to prevent circuits and motors from damages. This series of MCCB has the features of compact structure, high breaking capacity, short arcing distance, and complete internal and external accessories.

- Standard-compliance: IEC 60947-1, GB 14048.1 General rules
 IEC 60947-2, GB 14048.2 Circuit-breakers
 IEC 60947-4, GB 14048.4 Contactors and motor-starters
 Electromechanical contactors
 IEC 60947-5-1, GB 14048.5 Control circuit devices and switching element
 Electromechanical control circuit devices

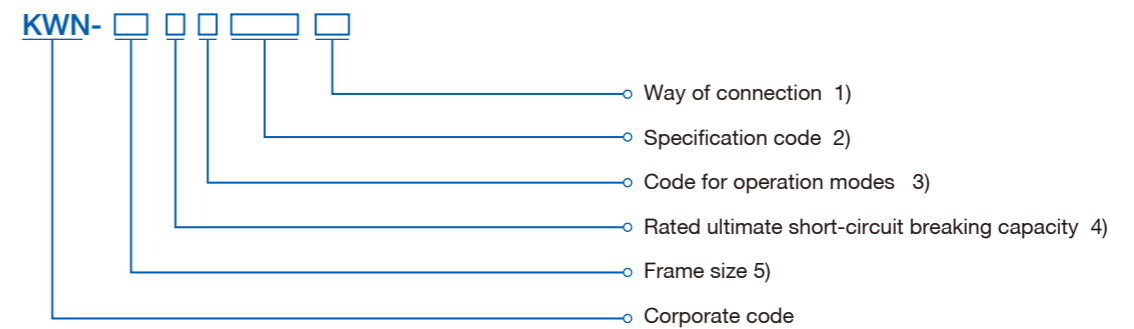


MCCB·ELCB

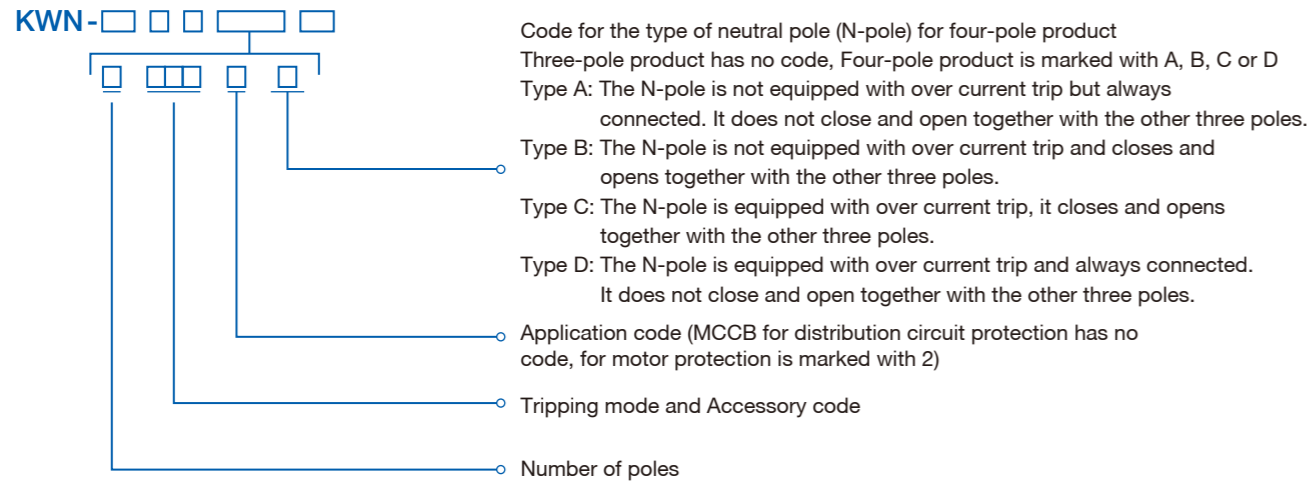
Conditions for Operation and Installation

- Ambient temperature: -5℃ to +40℃. The average temperature does not exceed +35℃ within 24h
- Installation altitude: ≤ 2000m
- The relative humidity will not exceed 50% when the ambient temperature is +40℃. Under the lower temperature, it can be used at higher relative humidity. When it is +20℃, for example, it will reach 90%. Appropriate measures shall be taken for the occasional condensations out of temperature changes.
- Pollution class: 3
- Installation category: The over voltage category of a main circuit and under voltage trip are III. The over voltage category of other auxiliary circuits and control circuits are II.

Model Indication and Meaning



Note:
 1) There are Front Terminals, Rear Terminals, and Plug-in Type (Front Terminal has no mark)
 2) The specification code is composed of six figures as follows:



3) Code for operation modes: No code for handle direct. Code Z for handle turning. Code P for electrical operating.
 4) Classified to type C, type S and type G
 5) Frame size (AF): 100, 160, 250, 400, and 800

Tripping Mode and Accessory Code

| Code | Accessory name | Accessories | | | | | | |
|---------------------------|----------------|--------------|------------|-------------------|--------------------|------------------------------|--------------------------------|--------------------------------------|
| | | No accessory | Shunt trip | Auxiliary contact | Under voltage trip | Auxiliary contact Shunt trip | Two sets of auxiliary contacts | Under voltage trip Auxiliary contact |
| Tripping mode | | | | | | | | |
| Electromagnetic tripping | | 200 | 210 | 220 | 230 | 240 | 260 | 270 |
| Thermal-magnetic tripping | | 300 | 310 | 320 | 330 | 340 | 360 | 370 |

| Code | Accessory name | Accessories | | | | | | |
|---------------------------|----------------|---------------|--------------------------|---------------------------------|----------------------------------|--------------------------------------------|-----------------------------------------------|----------------------------------------------------|
| | | Alarm contact | Alarm contact Shunt trip | Alarm contact Auxiliary contact | Alarm contact Under voltage trip | Alarm contact Auxiliary contact Shunt trip | Alarm contacts Two sets of auxiliary contacts | Alarm contact Under voltage trip Auxiliary contact |
| Tripping mode | | | | | | | | |
| Electromagnetic tripping | | 208 | 218 | 228 | 238 | 248 | 268 | 278 |
| Thermal-magnetic tripping | | 308 | 318 | 328 | 338 | 348 | 368 | 378 |

Note:
 No codes of 260, 360, 268 and 368 for KWN-100, KWN-160 and KWN-250.

Method of Installation

MCCB is typically mounted vertically, but it can also be mounted horizontally.

Main Technical Data

| Frame size (AF) | 100 | | | | 160 | | | | | | |
|---------------------------------------------------------|-----------------------------------------|------|----------|----|-----------------------------------------------|------|----------|----|----------|----|-----|
| | KWN-100C | | KWN-100S | | KWN-160C | | KWN-160S | | KWN-160G | | |
| Model | KWN-100C | | KWN-100S | | KWN-160C | | KWN-160S | | KWN-160G | | |
| Rated current In (A) | 10, 16, 20, 25, 32, 40, 50, 63, 80, 100 | | | | 16, 20, 25, 32, 40, 50, 63, 80, 100, 125, 160 | | | | | | |
| Number of poles | 3P | 4P | 3P | 4P | 3P | 4P | 3P | 4P | 3P | 4P | |
| Rated insulation voltage Ui (V) | AC 690 | | | | | | | | | | |
| Rated operating voltage Ue (V) | AC 400 | | | | | | | | | | |
| Rated impulse withstand voltage Uimp (V) | 8000 | | | | | | | | | | |
| Arcing distance (mm) | ≤ 50 | | | | | | | | | | |
| Rated ultimate short-circuit breaking capacity Icu (kA) | AC 400V | 15 | 30 | 35 | 65 | 100 | | | | | |
| | AC 230V | 20 | 45 | 50 | 100 | 150 | | | | | |
| Rated service short-circuit breaking capacity Ics (kA) | AC 400V | 8 | 15 | 18 | 33 | 50 | | | | | |
| | AC 230V | 10 | 23 | 25 | 50 | 75 | | | | | |
| Operational performance (Number of operating times) | With current | 1500 | | | | 1000 | | | | | |
| | Without current | 8500 | | | | 7000 | | | | | |
| Outline dimensions (mm) | W | 75 | 100 | 75 | 100 | 90 | 120 | 90 | 120 | 90 | 120 |
| | L | 130 | | | | 155 | | | | | |
| | H | 68 | | | | 68 | | 86 | | | |
| Connection mode | Front Terminals | ● | ● | ● | ● | ● | | | | | |
| | Rear Terminals | ● | ● | ● | ● | ● | | | | | |
| | Plug-in Type | ● | ● | ● | ● | ● | | | | | |
| Accessory | Shunt trip | ● | ● | ● | ● | ● | | | | | |
| | Under voltage trip | ● | ● | ● | ● | ● | | | | | |
| | Auxiliary contact | ● | ● | ● | ● | ● | | | | | |
| | Alarm contact | ● | ● | ● | ● | ● | | | | | |
| | Electrical operating mechanism | ● | ● | ● | ● | ● | | | | | |

| Frame size (AF) | | 250 | | | | | | 400 | | | | | |
|---------------------------------------------------------|------------------------------------|-----------------------------------|-----|----------|-----|----------|-----|------------------------------|-----|----------|-----|----------|-----|
| Model | | KWN-250C | | KWN-250S | | KWN-250G | | KWN-400C | | KWN-400S | | KWN-400G | |
| Rated current In (A) | | 100, 125, 160, 180, 200, 225, 250 | | | | | | 200, 225, 250, 315, 350, 400 | | | | | |
| Number of poles | | 3P | 4P | 3P | 4P | 3P | 4P | 3P | 4P | 3P | 4P | 3P | 4P |
| Rated insulation voltage Ui (V) | | AC 690 | | | | | | | | | | | |
| Rated operating voltage Ue (V) | | AC 400 | | | | | | | | | | | |
| Rated impulse withstand voltage Uimp (V) | | 8000 | | | | | | | | | | | |
| Arcing distance (mm) | | ≤ 50 | | | | | | | | | | | |
| Rated ultimate short-circuit breaking capacity Icu (kA) | AC 400V | 35 | 65 | 100 | 50 | 75 | 100 | | | | | | |
| | AC 230V | 50 | 100 | 150 | 75 | 120 | 150 | | | | | | |
| Rated service short-circuit breaking capacity Ics (kA) | AC 400V | 18 | 33 | 50 | 50 | 75 | 75 | | | | | | |
| | AC 230V | 25 | 50 | 75 | 75 | 100 | 100 | | | | | | |
| Operational performance (Number of operating times) | With current | 1000 | | | | | | | | | | | |
| | Without current | 7000 | | | | | | 4000 | | | | | |
| Outline dimensions (mm) | W | 105 | 140 | 105 | 140 | 105 | 140 | 140 | 184 | 140 | 184 | 140 | 184 |
| | L | 165 | | | | | | 257 | | | | | |
| | H | 68 | 86 | | | | | | 103 | | | | |
| Connection mode | Front Terminals | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Rear Terminals | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Plug-in Type | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Accessory | Shunt trip | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Under voltage trip | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Auxiliary contact | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Alarm contact | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Handle turning operating mechanism | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Electrical operating mechanism | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |

| Frame size (AF) | | 800 | | | | | |
|---------------------------------------------------------|------------------------------------|-------------------------|-----|----------|-----|----------|-----|
| Model | | KWN-800C | | KWN-800S | | KWN-800G | |
| Rated current In (A) | | 400, 500, 630, 700, 800 | | | | | |
| Number of poles | | 3P | 4P | 3P | 4P | 3P | 4P |
| Rated insulation voltage Ui (V) | | AC 690 | | | | | |
| Rated operating voltage Ue (V) | | AC 400 | | | | | |
| Rated impulse withstand voltage Uimp (V) | | 8000 | | | | | |
| Arcing distance (mm) | | ≤ 50 | | | | | |
| Rated ultimate short-circuit breaking capacity Icu (kA) | AC 400V | 50 | 75 | 100 | | | |
| | AC 230V | 75 | 120 | 150 | | | |
| Rated service short-circuit breaking capacity Ics (kA) | AC 400V | 50 | 75 | 75 | | | |
| | AC 230V | 75 | 100 | 100 | | | |
| Operational performance (Number of operating times) | With current | 500 | | | | | |
| | Without current | 2500 | | | | | |
| Outline dimensions (mm) | W | 210 | 280 | 210 | 280 | 210 | 280 |
| | L | 275 | | | | | |
| | H | 103 | | | | | |
| Connection mode | Front Terminals | ● | ● | ● | ● | ● | ● |
| | Rear Terminals | ● | ● | ● | ● | ● | ● |
| | Plug-in Type | ● | ● | ● | ● | ● | ● |
| Accessory | Shunt trip | ● | ● | ● | ● | ● | ● |
| | Under voltage trip | ● | ● | ● | ● | ● | ● |
| | Auxiliary contact | ● | ● | ● | ● | ● | ● |
| | Alarm contact | ● | ● | ● | ● | ● | ● |
| | Handle turning operating mechanism | ● | ● | ● | ● | ● | ● |
| | Electrical operating mechanism | ● | ● | ● | ● | ● | ● |

Attachments



| Tripping mode and Accessories code | Accessories name | Model | KWN-100 | | KWN-160 | | KWN-250 | | KWN-400 | | KWN-800 | |
|------------------------------------|----------------------------------------------------|-------|-----------------|-------|---------|-------|---------|-------|---------|-------|---------|-------|
| | | | Number of poles | | 3P | 4P | 3P | 4P | 3P | 4P | 3P | 4P |
| 208, 308 | Alarm contact | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ |
| 210, 310 | Shunt trip | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 220, 320 | Auxiliary contact | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 230, 330 | Under voltage trip | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 240, 340 | Auxiliary contact Shunt trip | ■ ● | ■ ● | ■ ● | ■ ● | ■ ● | ■ ● | ■ ● | ■ ● | ■ ● | ■ ● | ■ ● |
| 260, 360 | Two sets of auxiliary contacts | ■ ■ | ■ ■ | ■ ■ | ■ ■ | ■ ■ | ■ ■ | ■ ■ | ■ ■ | ■ ■ | ■ ■ | ■ ■ |
| 270, 370 | Under voltage trip Auxiliary contact | ○ ■ | ○ ■ | ○ ■ | ○ ■ | ○ ■ | ○ ■ | ○ ■ | ○ ■ | ○ ■ | ○ ■ | ○ ■ |
| 218, 318 | Alarm contact Shunt trip | □ ● | □ ● | □ ● | □ ● | □ ● | □ ● | □ ● | □ ● | □ ● | □ ● | □ ● |
| 238, 338 | Alarm contact Auxiliary contact | □ ■ | □ ■ | □ ■ | □ ■ | □ ■ | □ ■ | □ ■ | □ ■ | □ ■ | □ ■ | □ ■ |
| 228, 328 | Alarm contact Under voltage trip | □ ○ | □ ○ | □ ○ | □ ○ | □ ○ | □ ○ | □ ○ | □ ○ | □ ○ | □ ○ | □ ○ |
| 248, 348 | Alarm contact Auxiliary contact Shunt trip | □ ■ ● | □ ■ ● | □ ■ ● | □ ■ ● | □ ■ ● | □ ■ ● | □ ■ ● | □ ■ ● | □ ■ ● | □ ■ ● | □ ■ ● |
| 268, 368 | Alarm contact Two sets of auxiliary contacts | □ ■ ■ | □ ■ ■ | □ ■ ■ | □ ■ ■ | □ ■ ■ | □ ■ ■ | □ ■ ■ | □ ■ ■ | □ ■ ■ | □ ■ ■ | □ ■ ■ |
| 278, 378 | Alarm contact Under voltage trip Auxiliary contact | □ ○ ■ | □ ○ ■ | □ ○ ■ | □ ○ ■ | □ ○ ■ | □ ○ ■ | □ ○ ■ | □ ○ ■ | □ ○ ■ | □ ○ ■ | □ ○ ■ |

Note:
 1. The code of 200's means that MCCB has only electromagnetic trip
 2. The code of 300's means that MCCB has both thermal and electromagnetic trip

Operating Characteristics of Thermal-Magnetic Trip

a. Operating characteristics for distribution circuit protection

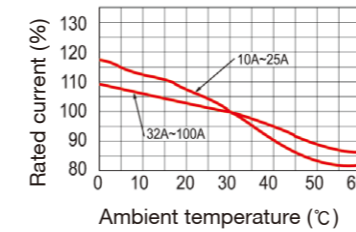
| Rated current of trip (A) | Operating characteristics of inverse time delay (Ambient temperature: +30°C) | | Instantaneous operating current (A) |
|---------------------------|------------------------------------------------------------------------------|---------------------------------------|-------------------------------------|
| | 1.0In (cold state) non-operating time (h) | 1.30In (hot state) operating time (h) | |
| In ≤ 63 | 1 | 1 | 10In±20% |
| 63 < In ≤ 630 | 2 | 2 | |
| 630 < In ≤ 800 | 2 | 2 | 6In±17% |

b. Operating characteristic for motor protection

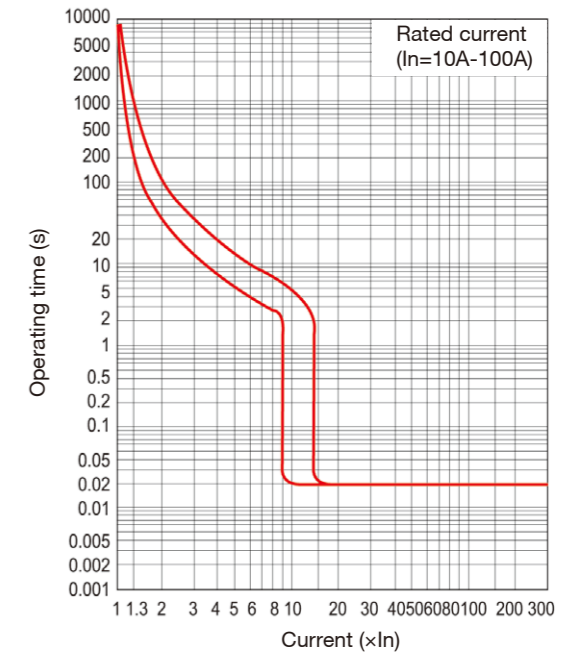
| Rated current of trip (A) | Operating characteristics of inverse time delay (Ambient temperature: +30°C) | | | | Instantaneous operating current (A) |
|---------------------------|------------------------------------------------------------------------------|--------------------------------------|---------------------------------------|-------------------------------------------|-------------------------------------|
| | 1.0In (cold state) non-operating time (h) | 1.2In (hot state) operating time (h) | 1.50In (hot state) operating time (m) | 7.2In (cold state) non-operating time (s) | |
| 10 ≤ In ≤ 225 | 2 | 2 | 4 | 4 < Tp ≤ 10 | 12In±20% |
| 225 < In ≤ 630 | | | 8 | 6 < Tp ≤ 10 | |

Characteristic Curves

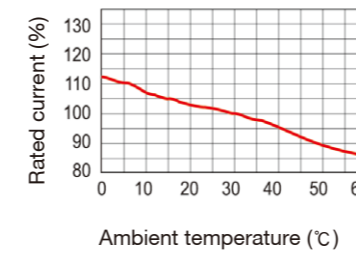
KWN-100C/S Current-Temperature Characteristic



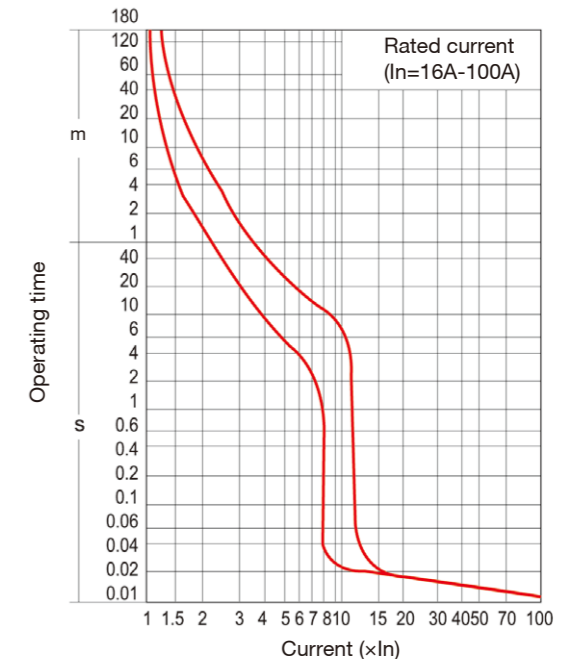
KWN-100C/S Time-Current Characteristic Curves



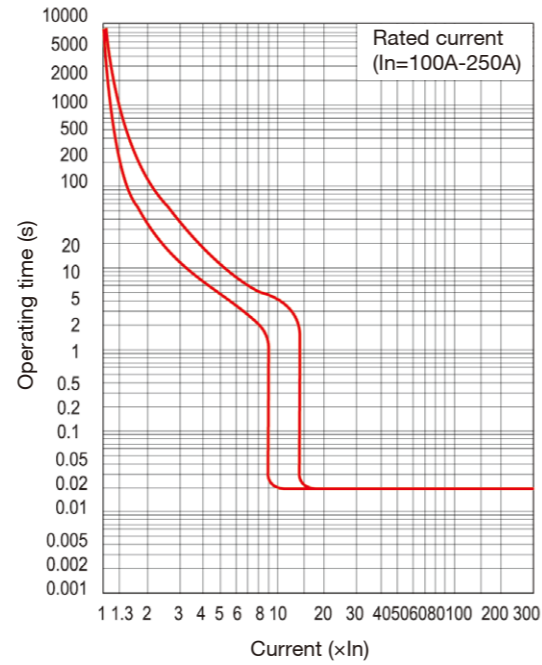
KWN-160C/S/G Current-Temperature Characteristic



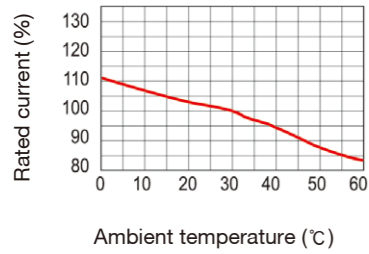
KWN-160C/S/G Time-Current Characteristic Curves



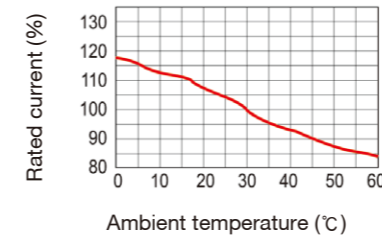
KWN-250C/S/G Time-Current Characteristic Curves



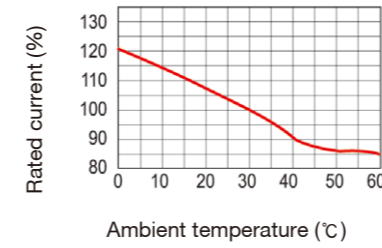
KWN-250C/S/G Current-Temperature Characteristic



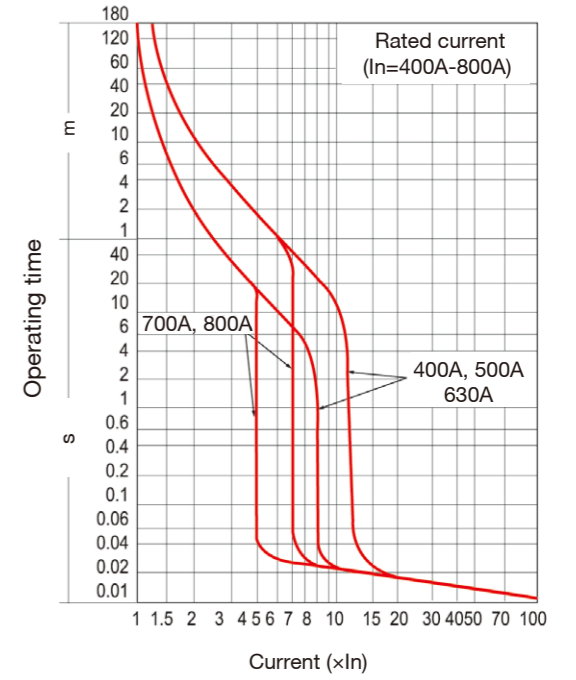
KWN-800C/S/G Current-Temperature Characteristic (In: 400A, 500A, 630A)



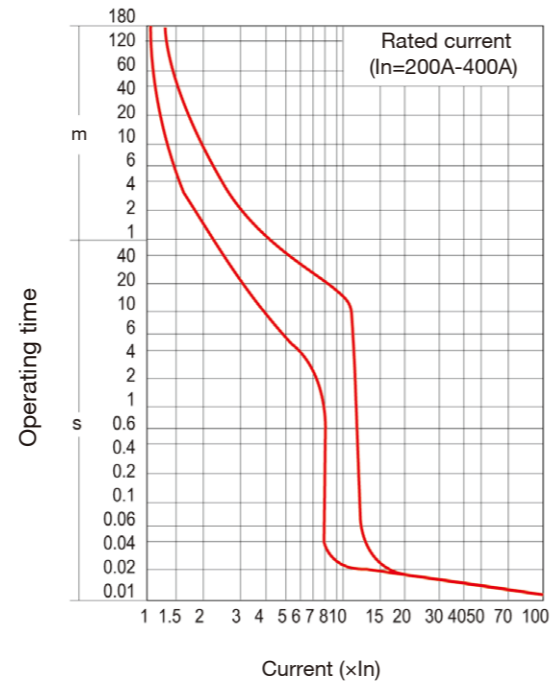
KWN-800C/S/G Current-Temperature Characteristic (In: 700A, 800A)



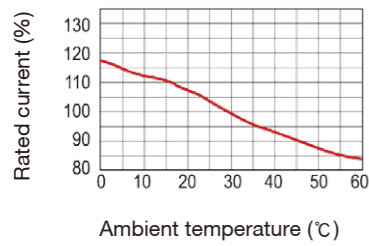
KWN-800C/S/G Time-Current Characteristic Curves



KWN-400C/S/G Time-Current Characteristic Curves



KWN-400C/S/G Current-Temperature Characteristic



Power Loss

| Model | Rated current (A) | Total power loss for 3P (W) | |
|-------------------|-------------------|-----------------------------|---------------------------------|
| | | Front Terminals | Rear Terminals and Plug-in Type |
| KWN-100 (C, S) | 100 | 33 | 38 |
| KWN-160 (C, S, G) | 160 | 43 | 51 |
| KWN-250 (C, S, G) | 250 | 58 | 66 |
| KWN-400 (C, S, G) | 400 | 105 | 118 |
| KWN-800 (C, S, G) | 800 | 248 | 268 |

Test Current and Cross-Section of Wire

Wire cross-section of copper wires for the temperature rise test and the corresponding test current

| | | | | | | | | | | | | | | |
|------------------------------------------|-----|----------|----|----|----------|----|----|-----|------------|-----|-------------------|-----|------------|-----|
| Rated current (A) | 10 | 16 20 | 25 | 32 | 40 50 | 63 | 80 | 100 | 125 140 | 160 | 180 200 225 | 250 | 315 350 | 400 |
| Cross-section of wire (mm ²) | 1.5 | 2.5 | 4 | 6 | 10 | 16 | 25 | 35 | 50 | 70 | 95 | 120 | 185 | 240 |

Cross-section of Wire

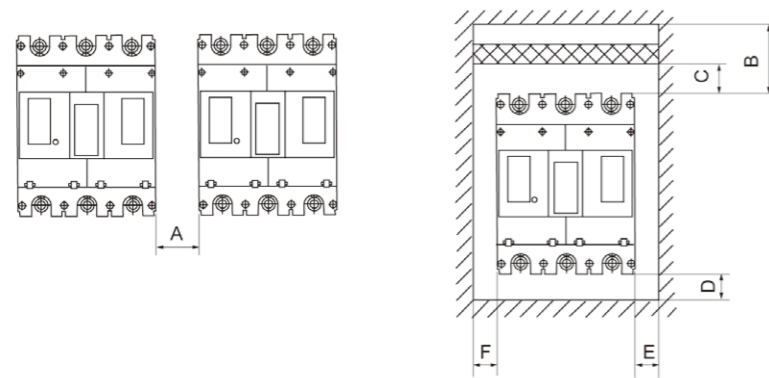
| Rated current (A) | Copper wire | | Copper bus bars | |
|-------------------|-------------|------------------------------------------|-----------------|------------------------------------------|
| | Number | Cross section of wire (mm ²) | Number | Cross-section of wire (mm ²) |
| 500 | 2 | 150 | 2 | 30x5 |
| 630 | 2 | 185 | 2 | 40x5 |
| 700 | 2 | 240 | 2 | 50x5 |
| 800 | 2 | 240 | 2 | 50x5 |

Derating Factor of Rated Current for Terminal Trip when Ambient Temperature Changes

| Model | Ambient temperature | | | | | |
|-----------------|---------------------|--------|--------|--------|--------|--------|
| | +30℃ | +40℃ | +45℃ | +50℃ | +55℃ | +60℃ |
| KWN-100 (C,S) | 1.0In | 0.90In | 0.87In | 0.83In | 0.80In | 0.70In |
| KWN-160 (C,S,G) | 1.0In | 0.93In | 0.88In | 0.83In | 0.79In | 0.71In |
| KWN-250 (C,S,G) | 1.0In | 0.90In | 0.84In | 0.81In | 0.78In | 0.73In |
| KWN-400 (C,S,G) | 1.0In | 0.89In | 0.82In | 0.79In | 0.74In | 0.69In |
| KWN-800 (C,S,G) | 1.0In | 0.86In | 0.81In | 0.77In | 0.72In | 0.67In |

Safety Distance

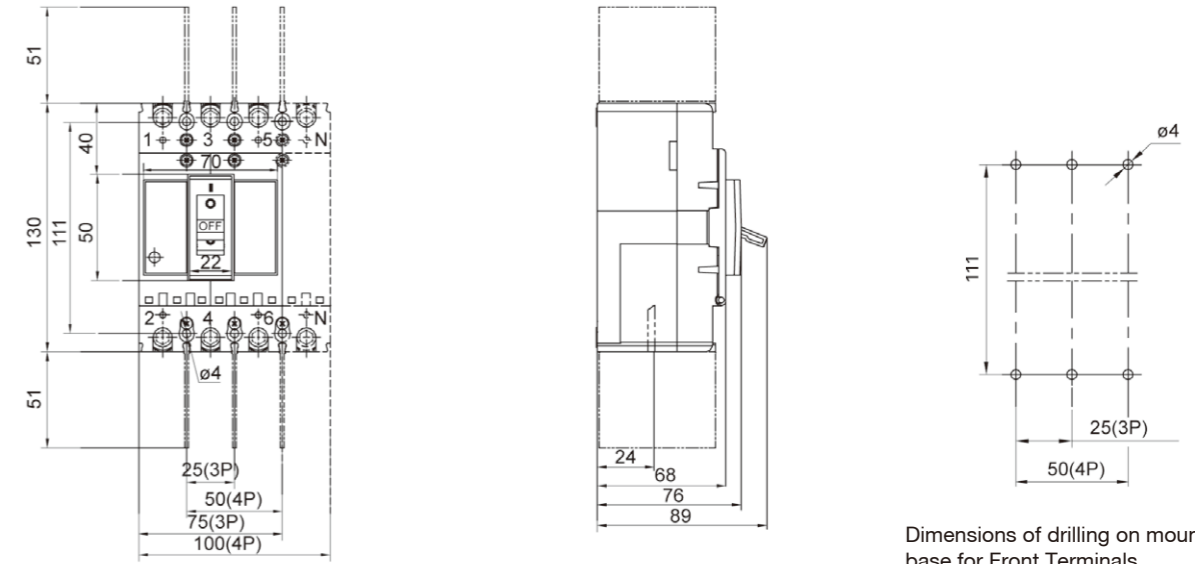
The distance between MCCB and the top, the bottom and the side walls of the enclosure should satisfy the safety distance requirements.



| Model | Safety distance (mm) | | | | | |
|-------------------|----------------------|--------------|------------------|----|----|----|
| | A | B (to metal) | C (to insulator) | D | E | F |
| KWN-100 (C, S) | 0 | 50 | 25 | 20 | 20 | 20 |
| KWN-160 (C, S, G) | 0 | 50 | 25 | 20 | 20 | 20 |
| KWN-250 (C, S, G) | 0 | 100 | 25 | 20 | 25 | 25 |
| KWN-400 (C, S, G) | 0 | 100 | 30 | 20 | 25 | 25 |
| KWN-800 (C, S, G) | 0 | 100 | 30 | 20 | 25 | 25 |

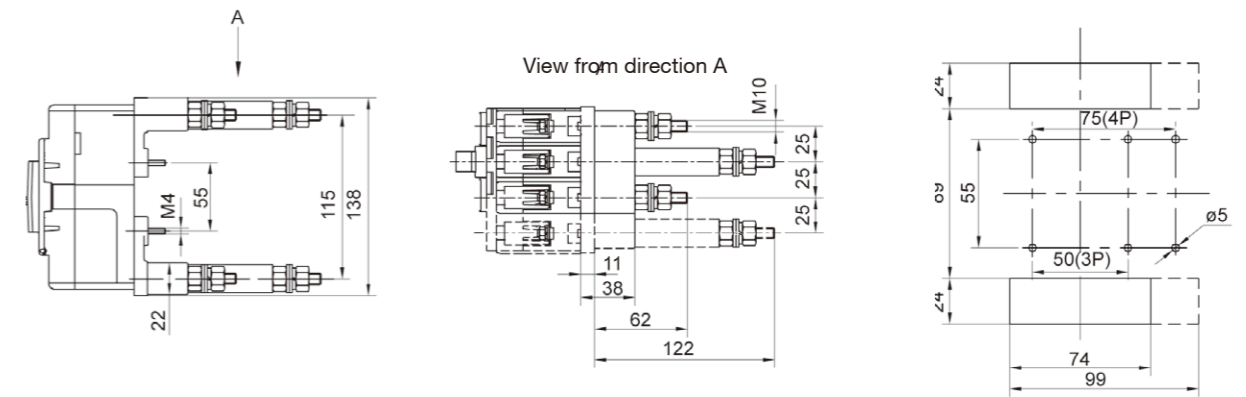
Outline and Installation Dimensions (mm)

KWN-100 C/S Front Terminals (3P/4P)



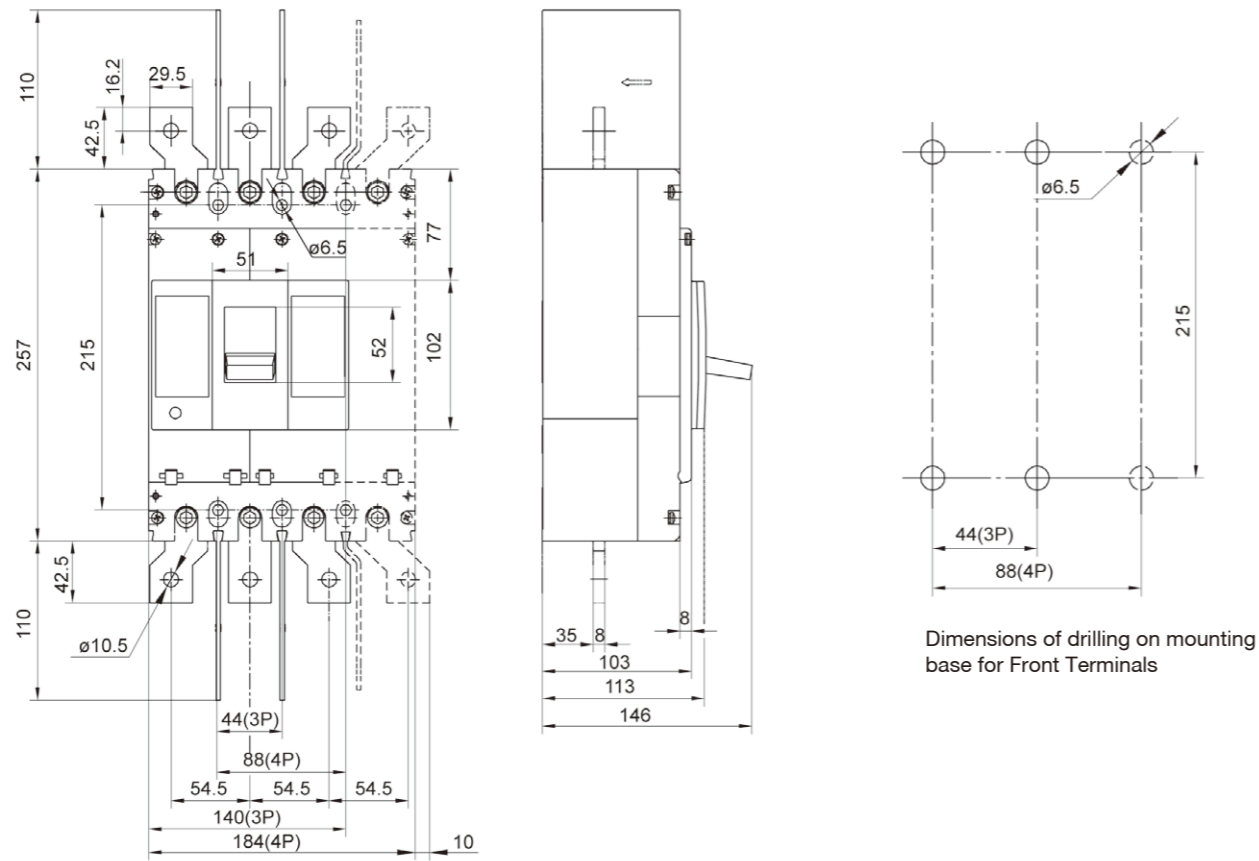
Dimensions of drilling on mounting base for Front Terminals

KWN-100 C/S Rear Terminals and Plug-in Type (3P/4P)



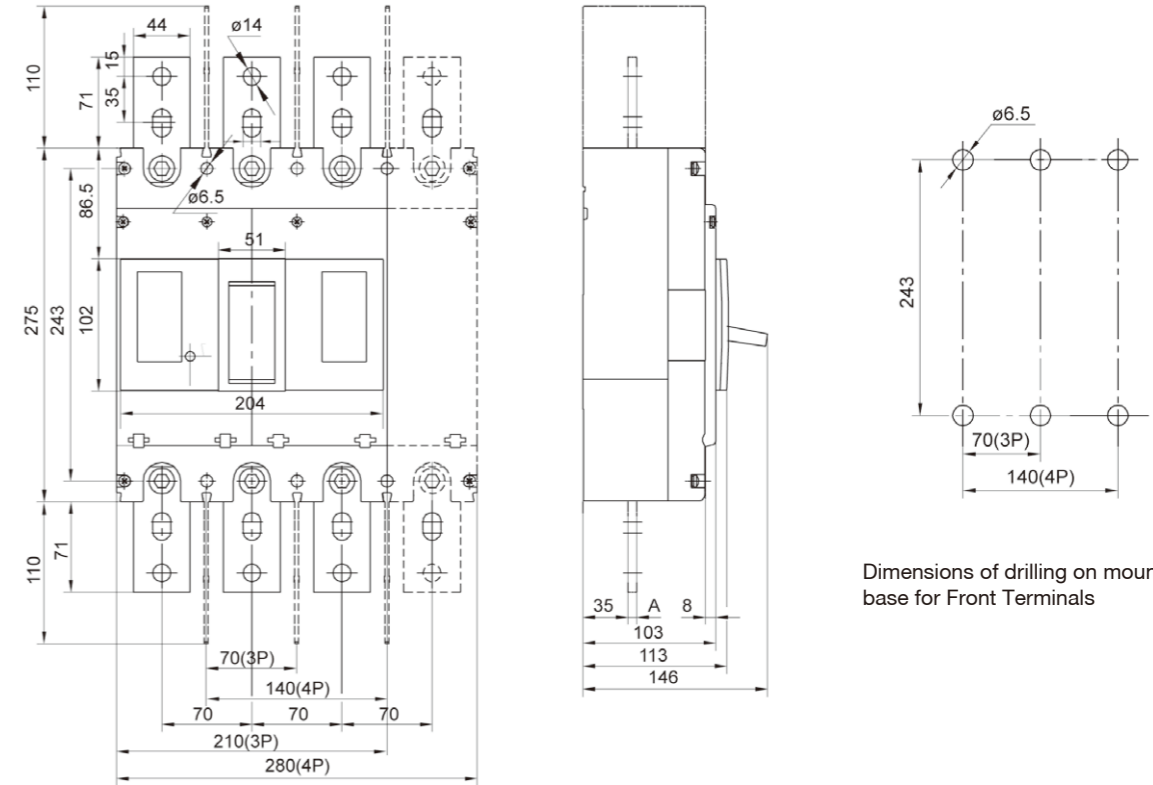
Dimensions of drilling on mounting base for Rear Terminals and Plug-in Type

KWN-400 C/S/G Front Terminals (3P/4P)



Dimensions of drilling on mounting base for Front Terminals

KWN-800 C/S/G Front Terminals (3P/4P)

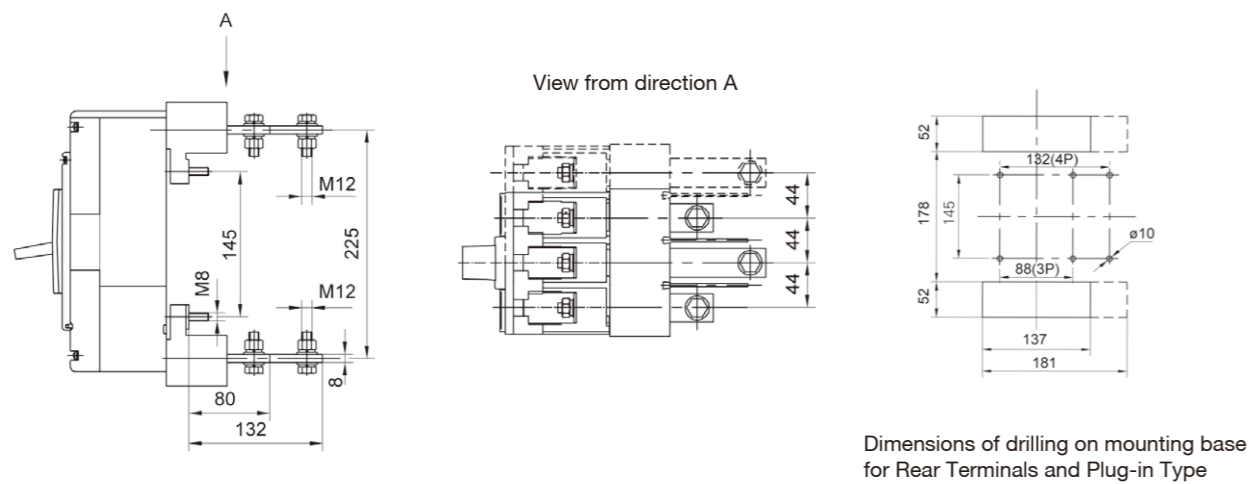


Dimensions of drilling on mounting base for Front Terminals

Dimensions A by rated current (mm)

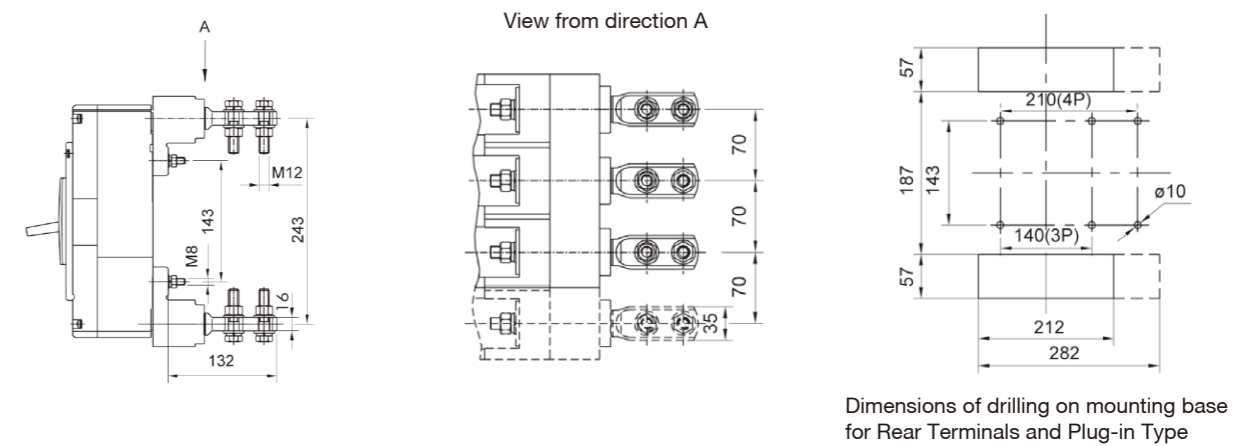
| Rated current | A |
|------------------|----|
| 400A, 500A, 630A | 8 |
| 700A, 800A | 12 |

KWN-400 C/S/G Rear Terminals and Plug-in Type (3P/4P)



Dimensions of drilling on mounting base for Rear Terminals and Plug-in Type

KWN-800 C/S/G Rear Terminals and Plug-in Type (3P/4P)



Dimensions of drilling on mounting base for Rear Terminals and Plug-in Type

Order Form

(Please fill value in ____ and tick in)

| | | | | | |
|-------------------|------------------------------------------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------|
| User name | | Order qty. | | Order date | |
| Model | KWN- ____ / ____ | | | | |
| Rated current (A) | In= A | | | | |
| Way of connection | Front Terminals <input type="checkbox"/> Rear Terminals <input type="checkbox"/> Plug-in Type <input type="checkbox"/> | | | | |
| Accessory | Under voltage trip | Type C | AC 400V <input type="checkbox"/> AC 230V <input type="checkbox"/> | | |
| | Shunt trip | | AC 400V <input type="checkbox"/> AC 230V <input type="checkbox"/> DC 220V <input type="checkbox"/> | | |
| | Electrical operating mechanism | | AC 230V <input type="checkbox"/> AC 110V <input type="checkbox"/> DC 110V <input type="checkbox"/> DC 220V <input type="checkbox"/> | | |
| | Manual operating mechanism | | SK <input type="checkbox"/> | | |
| | Wiring block <input type="checkbox"/> | Handle mechanism | Square <input type="checkbox"/> Round <input type="checkbox"/> | Terminal covers | Long <input type="checkbox"/> Short <input type="checkbox"/> |
| Remarks | | | | | |

KWN2L Series Earth Leakage Circuit Breaker



Scope and Intended Use

KWN2L series earth leakage circuit breaker (hereinafter referred to as ELCB), of which the rated insulation voltage is 800V, is intended for infrequent conversion and motor protection in circuits with AC 50Hz, the rated working voltage at 400V and the rated current up to 400A.

Standard-compliance: IEC 60947-1 and GB14048.1 General

IEC 60947-2 and GB14048.2 Circuit breaker and annex B - Circuit breaker with residual current protection

IEC 60947-4-1 and GB14048.4 Electromechanical contactors and motor-starters

Certificate: CCC (China Compulsory Certification) and CB certification

Product Features

- a. ELCB has overload, short-circuit and under voltage protection functions, which can protect lines and power equipments from damages, provide personnel with protection against indirect contact, and protect against potential fire hazards resulting from long-standing earth fault of current protection that can not be detected.
- b. According to the rated ultimate short-circuit breaking capacity (Icu), ELCB is classified as type M (medium) or type H (high). It is characterized by small size, high breaking, short arcing distance and anti-vibration.
- c. ELCB can be mounted vertically and horizontally.
- d. For ELCB, power lines can not be connected from the load side, meaning that only terminals 1, 3 and 5 are allowed for power, while terminals 2, 4 and 6 for loads.
- e. ELCB has isolation function.
- f. ELCB can be connected by front terminals, rear terminals or plug-in methods.