

Takes Power Distribution to the Next Level

箱殼類產品



ASTA & DEKRA KEMA Certified



TECHNICAL DATA:

- Power supply: 240VAC, 415V AC
- In compliance with standards:
 - MCB Board: IEC61439-3:2012
 - MCCB Board: IEC61439-2:2011
- Degree of protection: IP41 up to IP44
- Surface mounting
- High quality epoxy powder surface coating
- Busbar rating:
 - MCB SPN Board: 100A
 - MCB DPN, TPN & 4P Board: 125A upto 250A, 4way to 18way
 - MCCB TPN Board: 250A upto 800A (with max. 400A outgoing), 4way to 18way
- Short circuit breaking capacity:
 - MCB Board: 16kA / 24kA
 - MCCB Board: 50kA

| 箱殼類產品 | Enclosure | |
|---|---|----------|
| 1) Overview for Fair-Rack MCB and MCCB Boards (MD and MB Series) | | |
| | | 1 |
| 2) MD Series MCB Board | | |
| 微型斷路器配電箱技術參數 | Techniecal Specification (MCB BOARD) | 2/1 |
| 單相小型斷路器/漏電斷路器配電箱 | SPN MCB/RCBO Boards & Consumer Units | 2/2 |
| 三相配電箱 主電巴容量125A | TP & N Distribution Boards, Bar Rating 125A | 2/3 |
| 三相配電箱 主電巴容量 200A | TP & N Distribution Boards, Bar Rating 200A | 2/4 |
| 相間隔板, 一組六個 | Blanking Plate | 2/4 |
| 3) MB Series MCCB Board | | |
| 塑殼斷路器配電箱技術參數 | Techniecal Specification (MCCB) | 3/1 |
| 250A 三相塑殼斷路器配電箱 | 250A TPN MCCB Board | 3/2 |
| 400A 三相塑殼斷路器配電箱 | 400A TPN MCCB Board | 3/3 |
| 630A 三相塑殼斷路器配電箱 | 630A TPN MCCB Board | 3/4 |
| 相間隔板 | Blanking Plate for MCCB boards | 3/4 |
| 4) MCB &MCCB Board Dimension | | |
| 單相小型斷路器/漏電斷路器配電箱尺寸 | Dimension of SPN MCB/RCBO Boards | 4/1 |
| 125A三相配電箱尺寸 | Dimension of 125A TPN MCB Board | 4/2 |
| 250A三相配電箱尺寸 | Dimension of 250A TPN MCB Board | 4/3 |
| 250A 三相塑殼斷路器配電箱尺寸 | Dimension of 250A TPN MCCB Board | 4/4 |
| 400A 三相塑殼斷路器配電箱尺寸 | Dimension of 400A TPN MCCB Board | 4/5 |
| 630A 三相塑殼斷路器配電箱尺寸 | Dimension of 630A TPN MCCB Board | 4/6 |

Overview for Fair-Rack MCB and MCCB Boards (MD and MB Series)

| | |
|---|---|
| Manufacturer | FAIR-RACK – Fair-Rack Electrical Asia (H.K.) Ltd. |
| Designation | MCB SPN Board for Single Phase MCB Board or Consumer Unit MCB DPN & TPN Board for Two and Three Phase MCB Board MCCB TPN Board for Three Phase MCCB Board MCCB TPN Board with 4 Pole MCCB outgoing |
| International Standard | MCB Board - ASTA & KEMA Type Test to IEC 61439-3 MCCB Board - ASTA Type Test to IEC 61439-2 |
| Switchgears Brand | ABB / GE / Hager / Legrand / Schneider Electric / Siemens |
| Rated Insulation Voltage for Main Busbar | Up to 690V, 50Hz |
| Rated Operational Voltage | MCB SPN Board - 240V AC MCB and MCCB TPN Board - 415V AC |
| Rated Impulse Withstand Voltage | MCB Board – 4kV MCCB Board – 6kV |
| Rated Current | MCB SPN Board - 100A / 125A MCB TPN Board - 125A / 200A / 250A MCCB TPN Board - 250A / 400A / 630A / 800A with 400A outgoing |
| No of outgoing way | MCB SPN Board – 4 to 17 way (incl. split bar type, e.g. 2+2, 8+6), EXCL. Main Switch MCB DPN & TPN Board – 4 to 18 way MCCB TPN Board – 4 to 18 way |
| Short Circuit Withstand Strength | MCB SPN / TPN Board – All MCB boards are capable withstanding through faults of not less than the MCB rated fault breaking capacity Rated conditional short circuit withstand strength:- 16kA / 24kA MCCB TPN Board – Short circuit withstand strength:- 50kA, 1Sec |
| Degree of Protection | IP41 up to IP44 |
| Enclosure Framework | 1.5mm Electro-galvanized Sheet Steel Modular Structure Surface Mounted |
| Coating Epoxy Powder Coating | Standard 50 Micron (additional thickness upon request) |
| Internal Plate Separation | All live parts shall be screened from the front |
| Standard Color | RAL 7047 Light Grey |
| Copper Busbar | Tinned Copper Busbar to BS1432 |
| Cable Entry | Bottom (Standard) or Top (upon request) |
| Services Conditions | Ambient Temperature up to 50 ° C Relative Humidity up to 100% Altitude up to 2000m Environment up to Pollution Degree 3 |

MCB Board Technical Specifications

MD Series MCB boards

ASTA certified

微型斷路器配電箱技術參數

MD Series 微型斷路器配電箱

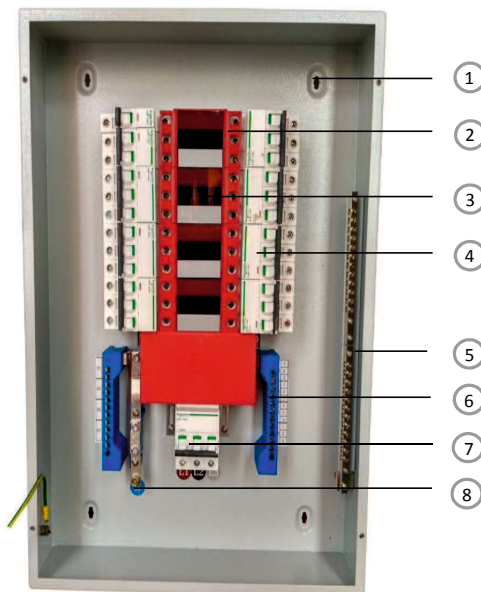
ASTA認可

Specification for TPN MCB Board (MD Series)

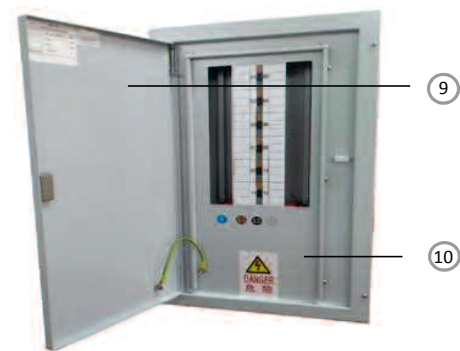
- In compliance with standards: IEC61439-3
- Degree of protection: IP41
- Surface mounting
- Galvanized 1.2mm steel sheet
- High quality epoxy powder surface coating
- Suits Multi 9 miniature circuit breakers or other brand (upon request)
- Busbar rating: (SPN) 100A , (TPN) 125A & 200A

三相微型斷路器配電箱參數 (MD 型號)

- 符合 IEC61439-3 標準
- 保護等級: IP41
- 掛牆式
- 1.2mm 鋅鍍鋼料造
- 表面用高質素環氧樹脂塗層
- 適合 Multi 9 微型斷路器或其他品牌 (如要求)
- 電巴容量: (SPN) 100A , (TPN) 125A & 200A



TPN MCB BOARD (MD Series)



- | | |
|---|---|
| 1. Surface mounting enclosure 掛牆式箱體 | 6. Neutral link 中線端子 |
| 2. Main Busbar Chamber 主巴盤 | 7. A.I. switch 隔離開關 |
| 3. Terminal shield & way label 絕緣隔板及相位標貼 | 8. Neutral incoming terminal 中線來線接線端 |
| 4. MCB unit 微型斷路器 | 9. Hinge door 掩門 |
| 5. Earth link 地線端子 | 10. Inner cover 內門 |

Specification for SPN MCB Board (MD Series)

單相微型斷路器配電箱參數 (MD 型號)

1. Confirm to standard: IEC61439-3
2. Surface mounting
3. Paint Finish: RAL7047 Light Grey
4. MCB SPN Board - 100A / 125A
5. MCB SPN Board – 4 to 17 way
(incl. split bar type, e.g. 2+2, 8+6),
EXCL. Main Switch



SPN MCB BOARD (MD Series)

MCB Distribution Board

SPN MCB/RCBO Boards & Consumer Units
Bar Rating 100A

單相微型斷路器/漏電斷路器配電箱
主電巴容量100A



Consumer Unit SP +N 單相有總位箱

| Order No. 產品及訂購編號 | No. of Ways 相位數目 | Unit Price 單價 HKD |
|----------------------|---------------------|-------------------------|
| MD10-006 | 6 | |
| MD10-008 | 8 | |
| MD10-010 | 10 | |
| MD10-012 | 12 | |
| MD10-014 | 14 | |
| MD10-016 | 16 | |
| MD10-018 | 17 | |

Consumer Unit Split-bar 單相有總位分巴箱

| Order No. 產品及訂購編號 | No. of Ways 相位數目 | Unit Price 單價 HKD |
|----------------------|---------------------|-------------------------|
| MD10-022 | 2+2 | |
| MD10-033 | 3+3 | |
| MD10-044 | 4+4 | |
| MD10-064 | 6+4 | |
| MD10-084 | 8+4 | |
| MD10-086 | 8+6 | |
| MD10-104 | 10+4 | |

Specification

1. Confirm to standard: IEC61439-3
2. Surface mounting
3. Paint Finish: RAL7047 Light Grey

MCB Distribution Board

TP & N MCB Distribution Boards, Bar Rating 125A

三相配電箱 主電巴容量125A



w/o main switch space 不帶總制位

| Order No. 產品及訂購編號 | No. of Ways 相位數目 | Unit Price 單價 HKD |
|----------------------|---------------------|-------------------------|
| MD17-004 | 4 | |
| MD17-006 | 6 | |
| MD17-008 | 8 | |
| MD17-010 | 10 | |
| MD17-012 | 12 | |
| MD17-014 | 14 | |
| MD17-016 | 16 | |
| MD17-018 | 18 | |
| MD17-020 | 20 | |
| MD17-022 | 22 | |
| MD17-024 | 24 | |



c/w main switch space 帶總制位

| Order No. 產品及訂購編號 | No. of Ways 相位數目 | Unit Price 單價 HKD |
|----------------------|---------------------|-------------------------|
| MD17-104 | 4 | |
| MD17-106 | 6 | |
| MD17-108 | 8 | |
| MD17-110 | 10 | |
| MD17-112 | 12 | |
| MD17-114 | 14 | |
| MD17-116 | 16 | |
| MD17-118 | 18 | |
| MD17-120 | 20 | |
| MD17-122 | 22 | |
| MD17-124 | 24 | |

Specification

1. Confirm to standard: IEC61439-3
2. Surface mounting
3. Paint Finish: RAL7047 Light Grey

MCB Distribution Board

TP & N MCB Distribution Boards, Bar Rating 200A

三相配電箱 主電巴容量250A



w/o main switch space 不帶總制位

| Order No. 產品及訂購編號 | No. of Ways 相位數目 | Unit Price 單價 HKD |
|----------------------|---------------------|-------------------------|
| MD12-004 | 4 | |
| MD12-006 | 6 | |
| MD12-008 | 8 | |
| MD12-010 | 10 | |
| MD12-012 | 12 | |
| MD12-014 | 14 | |
| MD12-016 | 16 | |
| MD12-018 | 18 | |
| MD12-020 | 20 | |
| MD12-022 | 22 | |
| MD12-024 | 24 | |



c/w main switch space 帶總制位

| Order No. 產品及訂購編號 | No. of Ways 相位數目 | Unit Price 單價 HKD |
|----------------------|---------------------|-------------------------|
| MD12-104SD | 4 | |
| MD12-106SD | 6 | |
| MD12-108SD | 8 | |
| MD12-110SD | 10 | |
| MD12-112SD | 12 | |
| MD12-114SD | 14 | |
| MD12-116SD | 16 | |
| MD12-118SD | 18 | |
| MD12-120SD | 20 | |
| MD12-122SD | 22 | |
| MD12-124SD | 24 | |

Accessories (配件)

| Order No. 產品及訂購編號 | No. of Ways 相位數目 | Unit Price 單價 HKD |
|----------------------|------------------------------|-------------------------|
| MD19002 | Blanking Plate 相間隔板, 一組六個 | |

Specification

1. Confirm to standard: IEC61439-3
2. Surface mounting
3. Paint Finish: RAL7047 Light Grey

MCCB Board Technical Specifications

MB Series MCCB Boards

ASTA certified

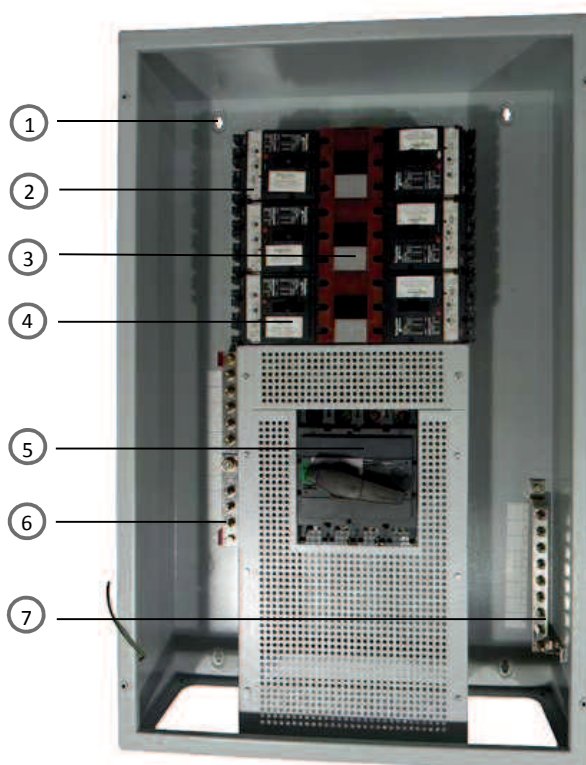
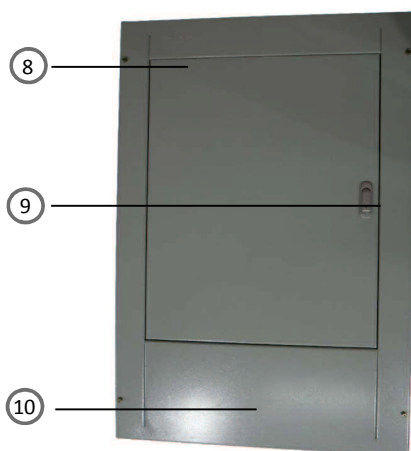
塑殼斷路器配電箱技術參數

MB Series 塑殼斷路器配電箱

ASTA 認可

- Degree of protection: IP42
- Complies with IEC 61439-2
- Constructed from rigid folded 1.5mm sheet steel
- Busbar rating 250A, 400A and 630A
- Detachable top and bottom gland plates
- Paint finish: light grey epoxy powder painted
- Tinned busbar
- Suits Compact NSX / NX / NSD Circuit Breakers or other Brand (upon request)

- 保護等級: IP42
- 符合IEC 61439-2標準
- 由1.5mm的鋼板嚴密摺疊而成
- 母線容量為250A, 400A及630A
- 可分拆的上下壓蓋板
- 表面塗上淺灰色環氧樹脂
- 鍍錫母線
- 適合 Compact NSX / NS / NSD 開關掣或其他品牌 (如要求)



- | | |
|---|-------------------------|
| 1. Surface mounting enclosure 掛牆式箱體 | 6. Neutral link 中線端子 |
| 2. Pan assembly 配件底板 | 7. Earth link 地線端子 |
| 3. Terminal shield & way lable 絕緣隔板及相位標貼 | 8. Inner cover 掩門 |
| 4. MCCB unit 塑殼斷路器 | 9. Key lock 門鎖 |
| 5. Suit INS type switch disconnector or other Brand (upon request) 適合INS型開關掣或其他品牌 (如要求) | 10. Cover 面蓋 |

Cabling Specification

Neutral incoming terminal connection : Use rigid or flexible cable up to

- 120mm² for 250A TPN board
- 240mm² for 400A TPN board
- 400mm² for 630A TPN board

Earth link incoming connection : use rigid or flexible cables up to 70mm²

Neutral and earth link outgoing connections : use rigid or flexible cables up to 16mm²

電線規範

中線接線：可接的軟線或硬線

- 250A三相配電箱接120mm²或以下
- 400A三相配電箱接240mm²或以下
- 630A三相配電箱接400mm²或以下
- 地線接線：可接70mm²或以下的軟線或硬線
- 中線和地線出線：可接16mm²或以下的軟線或硬線

MCCB Distribution Board

250A TPN MCCB Board

250A 三相塑殼斷路器配電箱



w/o main switch space 不帶總制位

| Order No. 產品及訂購編號 | No. of Ways 相位數目 | Unit Price 單價 HKD |
|----------------------|---------------------|-------------------------|
| MB3-0204 | 4 | |
| MB3-0206 | 6 | |
| MB3-0208 | 8 | |
| MB3-0210 | 10 | |
| MB3-0212 | 12 | |
| MB3-0214 | 14 | |
| MB3-0216 | 16 | |
| MB3-0218 | 18 | |
| MB3-0220 | 20 | |
| MB3-0222 | 22 | |
| MB3-0224 | 24 | |

c/w main switch space 帶總制位

| Order No. 產品及訂購編號 | No. of Ways 相位數目 | Unit Price 單價 |
|----------------------|---------------------|------------------|
| MB3-1204SD | 4 | |
| MB3-1206SD | 6 | |
| MB3-1208SD | 8 | |
| MB3-1210SD | 10 | |
| MB3-1212SD | 12 | |
| MB3-1214SD | 14 | |
| MB3-1216SD | 16 | |
| MB3-1218SD | 18 | |
| MB3-1220SD | 20 | |
| MB3-1222SD | 22 | |
| MB3-1224SD | 24 | |

Specification

1. Confirm to standard: IEC61439-2
2. Surface mounting
3. Paint Finish: RAL7047 Light Grey
4. For dimension, please refer to next page

MCCB Distribution Board

400A TPN MCCB Board

400A 三相塑殼斷路器配電箱



w/o main switch space 不帶總制位

| Order No. 產品及訂購編號 | No. of Ways 相位數目 | Unit Price 單價 HKD |
|----------------------|---------------------|-------------------------|
| MB3-0404250 | 4 | |
| MB3-0406250 | 6 | |
| MB3-0408250 | 8 | |
| MB3-0410250 | 10 | |
| MB3-0412250 | 12 | |
| MB3-0414250 | 14 | |
| MB3-0416250 | 16 | |
| MB3-0418250 | 18 | |
| MB3-0420250 | 20 | |
| MB3-0422250 | 22 | |
| MB3-0424250 | 24 | |

c/w main switch space 帶總制位

| Order No. 產品及訂購編號 | No. of Ways 相位數目 | Unit Price 單價 HKD |
|----------------------|---------------------|-------------------------|
| MB-1404SD250 | 4 | |
| MB-1406SD250 | 6 | |
| MB-1408SD250 | 8 | |
| MB-1410SD250 | 10 | |
| MB-1412SD250 | 12 | |
| MB-1414SD250 | 14 | |
| MB-1416SD250 | 16 | |
| MB-1418SD250 | 18 | |
| MB-1420SD250 | 20 | |
| MB-1422SD250 | 22 | |
| MB-1424SD250 | 24 | |

1. Confirm to standard: IEC61439-2
2. Surface mounting
3. Paint Finish: RAL7047 Light Grey

MCCB Distribution Board

630A TPN MCCB Board

630A 三相塑殼斷路器配電箱



w/o main switch space 不帶總制位

| Order No. 產品及訂購編號 | No. of Ways 相位數目 | Unit Price 單價 HKD |
|----------------------|---------------------|-------------------------|
| MB3-0604250 | 4 | |
| MB3-0606250 | 6 | |
| MB3-0608250 | 8 | |
| MB3-0610250 | 10 | |
| MB3-0612250 | 12 | |
| MB3-0614250 | 14 | |
| MB3-0616250 | 16 | |
| MB3-0618250 | 18 | |
| MB3-0620250 | 20 | |
| MB3-0622250 | 22 | |
| MB3-0624250 | 24 | |

c/w main switch space 帶總制位

| Order No. 產品及訂購編號 | No. of Ways 相位數目 | Unit Price 單價 HKD |
|----------------------|---------------------|-------------------------|
| MB3-1604SD250 | 4 | |
| MB3-1606SD250 | 6 | |
| MB3-1608SD250 | 8 | |
| MB3-1610SD250 | 10 | |
| MB3-1612SD250 | 12 | |
| MB3-1614SD250 | 14 | |
| MB3-1616SD250 | 16 | |
| MB3-1618SD250 | 18 | |
| MB3-1620SD250 | 20 | |
| MB3-1622SD250 | 22 | |
| MB3-1624SD250 | 24 | |

Accessories (配件)

| Order No. 產品及訂購編號 | No. of Ways 相位數目 | Unit Price 單價 HKD |
|----------------------|---|-------------------------|
| MB39001 | Blanking Plate for MCCB boards 相間隔板 ≤ 250A | |
| MB39002 | Blanking Plate for MCCB boards 相間隔板 > 250A & ≤ 630A | |

Specification

1. Confirm to standard: IEC61439-2
2. Surface mounting
3. Paint Finish: RAL7047 Light Grey



Charter Queen Limited

Flat C,1/F., Block B, Marvel Ind. Bldg,
17-23 Kwai Fung Crescent
Kwai Chung, N.T. Hong Kong
Tel: (852) 3909 8778
Fax: (852) 2408 3867
E-mail: contact@charterqueen.com
Home Page: www.charterqueen.com