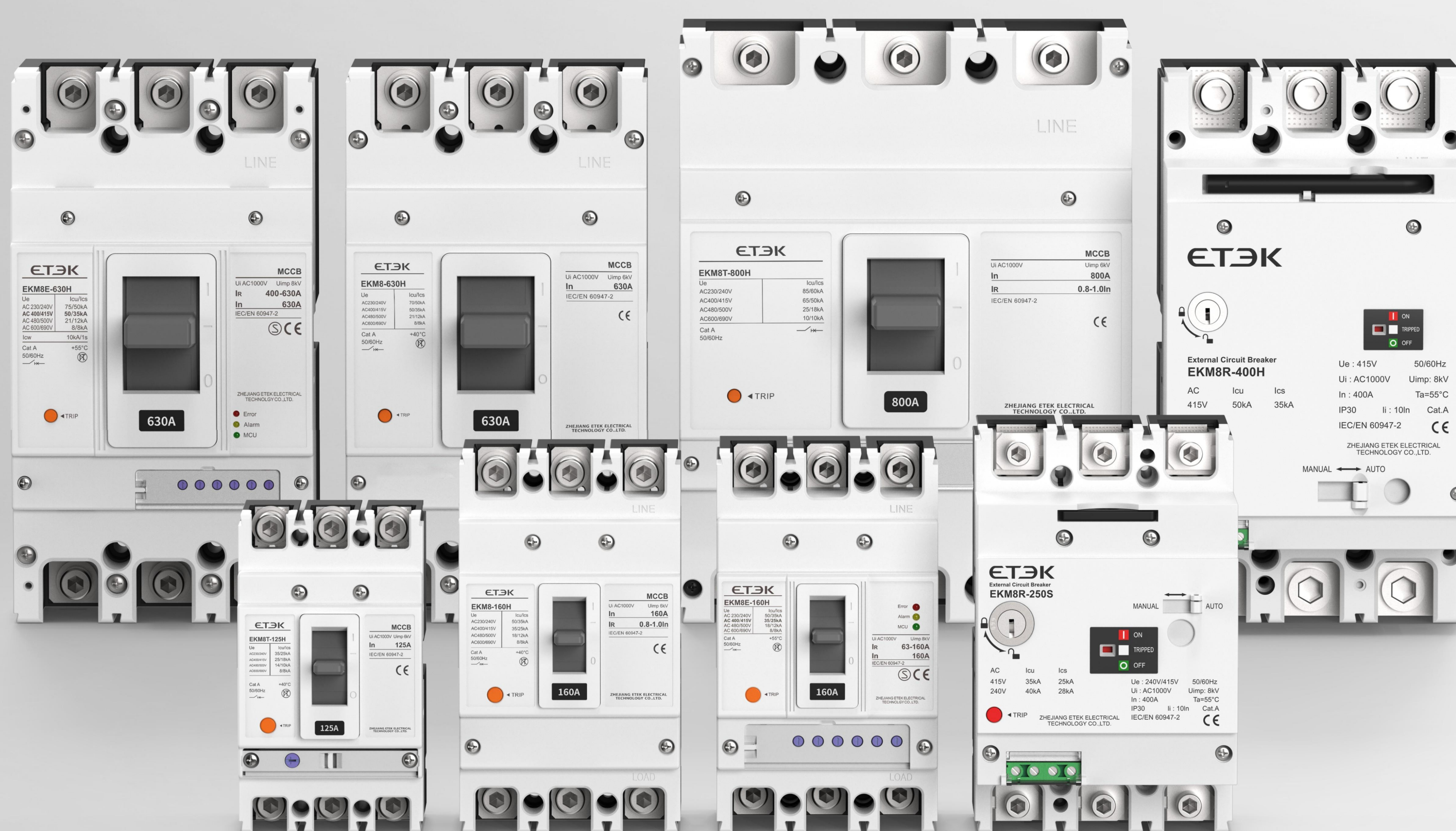


## EKM8 Series

# Molded Case Circuit Breakers (MCCB)

## Product Selection Guide



# EKM8R 250AF~2000AF (ECB)

External Circuit Breakers



| Model                                                            |          | EKM8R-250        | EKM8R-400 | EKM8R-630 | EKM8R-800 | EKM8R-1250  | EKM8R-2000  |
|------------------------------------------------------------------|----------|------------------|-----------|-----------|-----------|-------------|-------------|
| Frame size                                                       |          | 250A             | 400A      | 630A      | 800A      | 1000A       | 2000A       |
| Poles                                                            |          | 3P               |           |           |           |             |             |
| Rated operational voltage                                        |          | 400V             |           |           |           |             |             |
| Rated current                                                    |          | 100~250A         | 250~400A  | 500~630A  | 630~800A  | 1000, 1250A | 1600, 2000A |
| Rated insulation voltage                                         |          | 1000V            |           |           |           |             |             |
| Rated impulse withstand voltage                                  |          | 8kV              |           |           |           |             |             |
| Breaking capacity                                                |          | S                | H         | H         | H         | H           | H           |
| Breaking capacity @ 415V                                         | Ics (kA) | 25               | 35        | 35        | 50        | 50          | 50          |
|                                                                  | Icu (kA) | 35               | 50        | 50        | 65        | 65          | 85          |
| Standard                                                         |          | IEC60947-2       |           |           |           |             |             |
| Utilization category                                             |          | Cat. A           |           |           |           |             |             |
| Isolation function                                               |          | Yes              |           |           |           |             |             |
| Protection degree                                                |          | IP30             |           |           |           |             |             |
| Operating temperature                                            |          | -10°C ~ +75°C    |           |           |           |             |             |
| Reference temperature                                            |          | 55°C             |           |           |           |             |             |
| Trip unit type                                                   |          | Thermal-magnetic |           |           |           |             |             |
| Incoming method                                                  |          | Fixed, plug-in   |           |           |           |             |             |
| Rated operational voltage (Ue)<br>(Electric Operating Mechanism) |          | 230V             |           |           |           |             |             |
| Operational voltage range<br>(Electric Operating Mechanism)      |          | (85%~110%) Ue    |           |           |           |             |             |

# EKM8 125AF~2000AF (MCCB)

Thermal Magnetic Fixed MCCB



| Model                           |          | EKM8-125                            |    |    |    | EKM8-160   |    |    |    | EKM8-250 |    |    |  |
|---------------------------------|----------|-------------------------------------|----|----|----|------------|----|----|----|----------|----|----|--|
| Frame size                      |          | 125A                                |    |    |    | 160A       |    |    |    | 250A     |    |    |  |
| Poles                           |          | 1P, 2P, 3P, 4P                      |    |    |    | 2P, 3P, 4P |    |    |    | 3P, 4P   |    |    |  |
| Rated operational voltage       |          | 220/230V(1P);<br>380/400V(2P/3P/4P) |    |    |    | 380/400V   |    |    |    |          |    |    |  |
| Rated current                   |          | 10~125A                             |    |    |    | 10~160A    |    |    |    | 100~250A |    |    |  |
| Rated insulation voltage        |          | 1000V                               |    |    |    |            |    |    |    |          |    |    |  |
| Rated impulse withstand voltage |          | 8kV                                 |    |    |    |            |    |    |    |          |    |    |  |
| Breaking capacity               |          | C                                   | S  | H  | C  | S          | H  | UH | C  | S        | H  | UH |  |
| Breaking capacity<br>@ 415V     | Ics (kA) | 7.5                                 | 15 | 18 | 10 | 18         | 25 | 36 | 10 | 18       | 25 | 36 |  |
|                                 | Icu (kA) | 10                                  | 18 | 25 | 15 | 25         | 35 | 36 | 15 | 25       | 35 | 36 |  |
| Ambient temperature             |          | -5°C ~ +55°C                        |    |    |    |            |    |    |    |          |    |    |  |
| Utilization category            |          | Cat. A                              |    |    |    |            |    |    |    |          |    |    |  |
| MCCB Type                       |          | Fixed type                          |    |    |    |            |    |    |    |          |    |    |  |
| Trip unit type                  |          | Thermal-magnetic                    |    |    |    |            |    |    |    |          |    |    |  |
| Incoming method                 |          | Fixed, plug-in                      |    |    |    |            |    |    |    |          |    |    |  |

| Model                           |          | EKM8-400         |    |          | EKM8-630 |    |          | EKM8-800             | EKM8-1250  | EKM8-2000 |
|---------------------------------|----------|------------------|----|----------|----------|----|----------|----------------------|------------|-----------|
| Frame size                      |          | 400A             |    |          | 630A     |    |          | 800A                 | 1250A      | 2000A     |
| Poles                           |          | 3P, 4P           |    |          |          |    |          |                      |            |           |
| Rated operational voltage       |          | 380/400V         |    |          |          |    |          | 400/415V, 500V, 690V |            |           |
| Rated current                   |          | 250~400A         |    | 500~630A |          |    | 500~800A | 630~1250A            | 1000~2000A |           |
| Rated insulation voltage        |          | 1000V            |    |          |          |    |          |                      |            |           |
| Rated impulse withstand voltage |          | 8kV              |    |          |          |    |          |                      |            |           |
| Breaking capacity               |          | S                | H  | UH       | S        | H  | UH       | H                    | H          | H         |
| Breaking capacity<br>@ 415V     | Ics (kA) | 25               | 35 | 50       | 25       | 35 | 50       | 50                   | 50         | 50        |
|                                 | Icu (kA) | 35               | 50 | 50       | 35       | 50 | 50       | 65                   | 65         | 85        |
| Ambient temperature             |          | -5°C ~ +55°C     |    |          |          |    |          |                      |            |           |
| Utilization category            |          | Cat. A           |    |          |          |    |          |                      |            |           |
| MCCB Type                       |          | Fixed type       |    |          |          |    |          |                      |            |           |
| Trip unit type                  |          | Thermal-magnetic |    |          |          |    |          |                      |            |           |
| Incoming method                 |          | Fixed, plug-in   |    |          |          |    |          |                      |            |           |

# EKM8T 125AF~1250AF (MCCB)

Thermo-Magnetic Double Adjustable Type MCCB



| Model                           |          | EKM8T-125              |    |    | EKM8T-160 |    |    |    | EKM8T-250 |    |    |    |
|---------------------------------|----------|------------------------|----|----|-----------|----|----|----|-----------|----|----|----|
| Frame size                      |          | 125A                   |    |    | 160A      |    |    |    | 250A      |    |    |    |
| Poles                           |          | 3P, 4P                 |    |    |           |    |    |    |           |    |    |    |
| Rated operational voltage       |          | 380/400V               |    |    |           |    |    |    |           |    |    |    |
| Rated current                   |          | 20~125A                |    |    | 25~160A   |    |    |    | 125~250A  |    |    |    |
| Rated insulation voltage        |          | 1000V                  |    |    |           |    |    |    |           |    |    |    |
| Rated impulse withstand voltage |          | 8kV                    |    |    |           |    |    |    |           |    |    |    |
| Breaking capacity               |          | C                      | S  | H  | C         | S  | H  | UH | C         | S  | H  | UH |
| Breaking capacity<br>@ 415V     | Ics (kA) | 7.5                    | 15 | 18 | 10        | 18 | 25 | 36 | 10        | 18 | 25 | 36 |
|                                 | Icu (kA) | 10                     | 18 | 25 | 15        | 25 | 35 | 36 | 15        | 25 | 35 | 36 |
| Ambient temperature             |          | -5°C ~ +55°C           |    |    |           |    |    |    |           |    |    |    |
| Utilization category            |          | Cat. A                 |    |    |           |    |    |    |           |    |    |    |
| MCCB Type                       |          | Double adjustable type |    |    |           |    |    |    |           |    |    |    |
| Trip unit type                  |          | Thermal-magnetic       |    |    |           |    |    |    |           |    |    |    |
| Incoming method                 |          | Fixed, plug-in         |    |    |           |    |    |    |           |    |    |    |

| Model                           |          | EKM8T-400              |    |          | EKM8T-630 |    |          | EKM8T-800 | EKM8T-1250 |
|---------------------------------|----------|------------------------|----|----------|-----------|----|----------|-----------|------------|
| Frame size                      |          | 400A                   |    |          | 630A      |    |          | 800A      | 1250A      |
| Poles                           |          | 3P, 4P                 |    |          |           |    |          |           |            |
| Rated operational voltage       |          | 380/400V               |    |          |           |    |          |           |            |
| Rated current                   |          | 250~400A               |    | 500~630A |           |    | 630~800A | 630~1250A |            |
| Rated insulation voltage        |          | 1000V                  |    |          |           |    |          |           |            |
| Rated impulse withstand voltage |          | 8kV                    |    |          |           |    |          |           |            |
| Breaking capacity               |          | S                      | H  | UH       | S         | H  | UH       | H         | H          |
| Breaking capacity<br>@ 415V     | Ics (kA) | 25                     | 35 | 50       | 25        | 35 | 50       | 50        | 50         |
|                                 | Icu (kA) | 35                     | 50 | 50       | 35        | 50 | 50       | 65        | 65         |
| Ambient temperature             |          | -5°C ~ +55°C           |    |          |           |    |          |           |            |
| Utilization category            |          | Cat. A                 |    |          |           |    |          |           |            |
| MCCB Type                       |          | Double adjustable type |    |          |           |    |          |           |            |
| Trip unit type                  |          | Thermal-magnetic       |    |          |           |    |          |           |            |
| Incoming method                 |          | Fixed, plug-in         |    |          |           |    |          |           |            |

# EKM8E 160AF~2000AF (MCCB)

Electronic Adjustable Type MCCB



| Model                           |          | EKM8E-160       |    | EKM8E-250 |    | EKM8E-400 |    | EKM8E-630 |    |
|---------------------------------|----------|-----------------|----|-----------|----|-----------|----|-----------|----|
| Frame size                      |          | 160A            |    | 250A      |    | 400A      |    | 630A      |    |
| Poles                           |          | 3P, 4P          |    |           |    |           |    |           |    |
| Rated operational voltage       |          | 380/400V        |    |           |    |           |    |           |    |
| Rated current                   |          | 32~160A         |    | 250A      |    | 315~400A  |    | 500~630A  |    |
| Rated insulation voltage        |          | 1000V           |    |           |    |           |    |           |    |
| Rated impulse withstand voltage |          | 8kV             |    |           |    |           |    |           |    |
| Breaking capacity               |          | S               | H  | S         | H  | H         | UH | H         | UH |
| Breaking capacity<br>@ 415V     | Ics (kA) | 18              | 25 | 18        | 25 | 35        | 50 | 35        | 50 |
|                                 | Icu (kA) | 25              | 35 | 25        | 35 | 50        | 50 | 50        | 50 |
| Ambient temperature             |          | -5°C ~ +55°C    |    |           |    |           |    |           |    |
| Utilization category            |          | Cat. A          |    |           |    |           |    |           |    |
| MCCB Type                       |          | Adjustable type |    |           |    |           |    |           |    |
| Trip unit type                  |          | Electronic      |    |           |    |           |    |           |    |
| Incoming method                 |          | Fixed, plug-in  |    |           |    |           |    |           |    |

| Model                           |          | EKM8E-800       |    | EKM8E-1250 |    | EKM8E-1600 | EKM8E-2000 |
|---------------------------------|----------|-----------------|----|------------|----|------------|------------|
| Frame size                      |          | 800A            |    | 1250A      |    | 1600A      | 2000A      |
| Poles                           |          | 3P, 4P          |    |            |    |            |            |
| Rated operational voltage       |          | 380/400/690V    |    |            |    |            |            |
| Rated current                   |          | 630~800A        |    | 1000~1250A |    | 800~1600A  | 1000~2000A |
| Rated insulation voltage        |          | 1000V           |    |            |    |            |            |
| Rated impulse withstand voltage |          | 8kV             |    |            |    |            |            |
| Breaking capacity               |          | H               | UH | H          | UH | H          | H          |
| Breaking capacity<br>@ 415V     | Ics (kA) | 50              | 65 | 50         | 65 | 50         | 85         |
|                                 | Icu (kA) | 65              | 65 | 65         | 65 | 85         | 100        |
| Ambient temperature             |          | -5°C ~ +55°C    |    |            |    |            |            |
| Utilization category            |          | Cat. B          |    |            |    |            |            |
| MCCB Type                       |          | Adjustable type |    |            |    |            |            |
| Trip unit type                  |          | Electronic      |    |            |    |            |            |
| Incoming method                 |          | Fixed, plug-in  |    |            |    |            |            |



**40k+** m<sup>2</sup>  
Floor Area



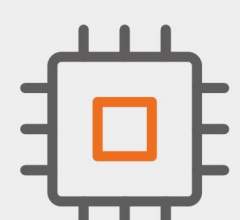
**500+**  
Employees



**100+**  
Export Countries



**30+**  
Brand Agents



**15+** Years  
Industry Experience



**20 Mio+** Poles  
Annual Production



**≥50%**  
Automation Rate

Zhejiang ETEK Electrical Technology Co., Ltd. specializes in the R&D, production, and sales of low-voltage electrical appliances.

## Core Offerings

MCB

RCCB

RCBO

AFDD

MCCB

ACB

EV Chargers

Photovoltaic DC Solutions

## Quality Assurance

- IEC-compliant testing center
- Management System Certification: ISO 9001/14001/45001
- Product Conformity Certification



**RoHS**

## Global Reach

- "ETEK" registered in 80+ countries
- Exports to 100+ countries (EU • South America • MENA • ASEAN • Africa)
- Supports OEM, ODM, OBM, SKD, and CKD partnerships

## Corporate Culture

Values

Integrity • Innovation • Focus • Win-win

Vision

Dedicated to becoming a globally renowned manufacturer in the power distribution equipment industry.

Mission

Manufacturing safer and smarter distribution electrical products to support the development of green and digital energy



Wenzhou Factory



Wuhu Factory

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Company Website



Product Details