

PRODUCT SELECTION GUIDE

- Circuit Breakers
- Industrial Products

» *Always for your safety*



ZHEJIANG ETEK
ELECTRICAL TECHNOLOGY CO.,LTD.

Always for your safety



RoHS

COMPANY INTRODUCTION

Zhejiang ETEK Electrical Technology Co., Ltd. (Abbreviation: ETEK Electric) is a professional manufacturing company dedicated to the research, development, production, and sales of low-voltage electrical appliances. The company was established in 2011 and is located in Wenzhou City, Zhejiang Province. At present, the company has 40K sqm of modern manufacturing bases in Wenzhou and Wuhu with over 500 employees, including over 50 R&D and technical personnel. ETEK Electric has multiple production workshops for mold design, parts manufacturing, welding, and assembly. Additionally, they have multiple automated production lines for MCB and RCCB. Our products include MCB, RCCB, RCBO, AFDD, MCCB, ACB, EV Chargers, Photovoltaic DC products, etc., which can meet the needs of different countries and are widely used in fields such as residential, commercial, and industrial.

ETEK Electric has passed ISO9001 quality management system and environmental management system certification. The company have built our own low-voltage electrical testing center, and most of the testing items can meet the requirements of international IEC standards, in addition, our products have obtained international CB, TUV, VDE, CE, RoHS and other quality certificates.

ETEK Electric constantly masters and breaks through the core technology of circuit breakers, with more than 100 national patents. Focusing on independent brand construction is crucial for the company's development. The "ETEK" trademark is registered in over 80 countries. Products are exported to over 60 countries and regions including the European Union, South America, the Middle East, Africa, and Southeast Asia.

We also support OEM, ODM, OBM, SKD, CKD and other business cooperation models, and provide customers with a full range of services covering market cultivation, technical training, and factory construction.

ETEK Electric has been adhering to the business policy of "Growth", "Quality", "Efficiency", and "Innovation". In 2023, ETEK Electric has formulated the fifth 3-year strategic plan, which specifies the three major initiatives of expanding the production scale, enhancing the new energy market share, and expanding the independent brand, to realize the annual revenue target of \$50 million by 2026.

Looking forward to the future, ETEK Electric will be committed to becoming a globally renowned manufacturer in the power distribution and electrical industry, safeguarding the power safety of global customers, and helping the development of green and digital energy.



ENTERPRISE HISTORY

2011 ▶ Officially established

2014 ▶ Successfully passed ISO9001 certificate of quality system

2015 ▶ Complete multiple product development and patent applications

2018 ▶ The company relocated to yanpan industrial zone to become a standardized enterprise for safety production

2019 ▶ The company has implemented multiple production line automation

2021 ▶ New energy division establishes electric vehicle charging stations realize mass production and sales

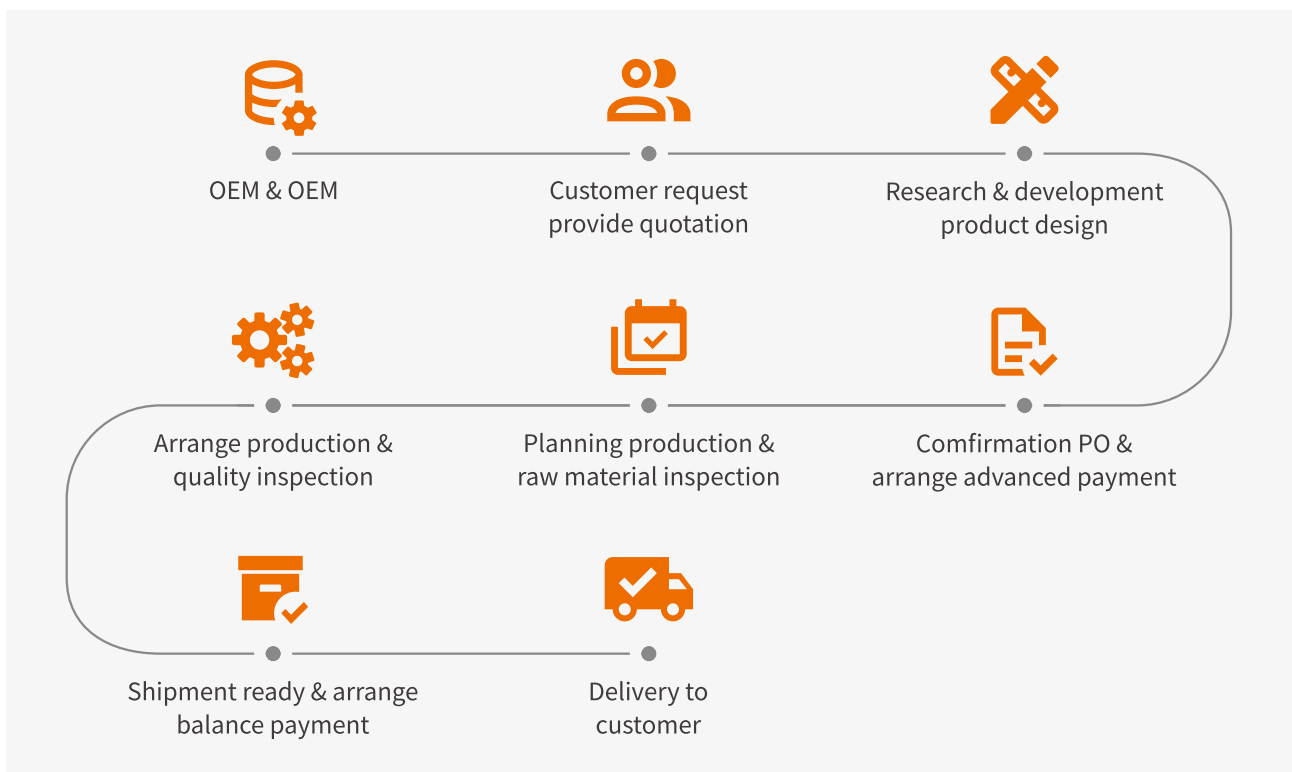
2022 ▶ The construction of the ETEK electric (Wuhu) factory project has started, officially entering production by the end of 2023



WORKSHOPS



OEM & ODM BUSINESS



INTERNATIONAL CERTIFICATION



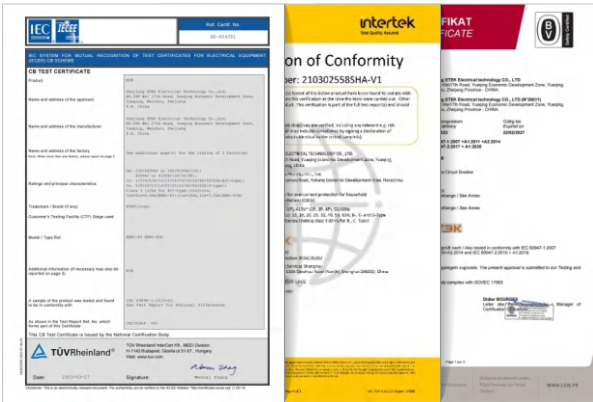
ISO9001



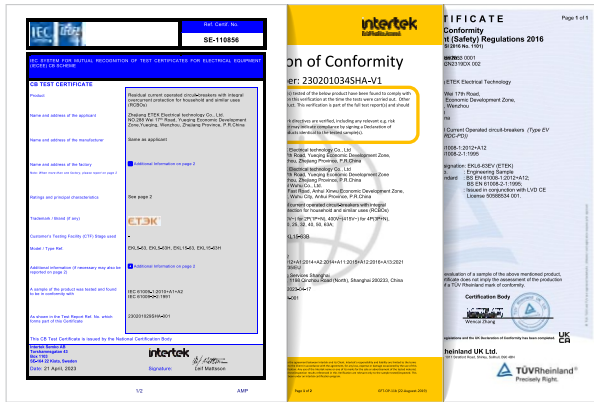
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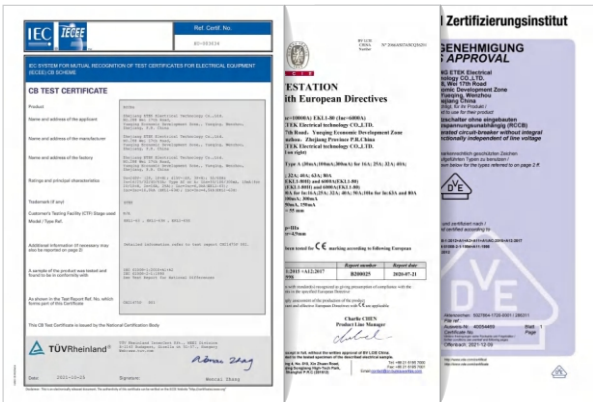
ISO45001



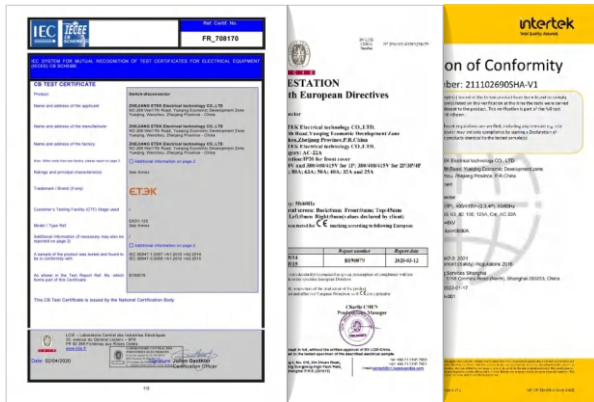
MCB Certificates



RCBO Certificates



RCCB Certificates



Isolator Switch Certificates



CONTENTS

Electrical Protection Devices

Mini Circuit Breaker (MCB)	01
Residual Current Circuit Breaker (RCCB)	09
Residual Current Circuit Breaker with Overcurrent Protection (RCBO)	13
Arc-Fault Detection Device (AFDD)	19
Isolator Switch	21
Smart Circuit Breaker	23
MCB Accessory	25

Other Modular Devices

Modular Contactor	27
Changeover Switch	28
Modular Voltage Meter & Signal Lamp	30
Modular Fuse Holder & Fuse Link	31

Surge Protection Devices

AC Surge Protection Devices (AC SPD)	33
DC Surge Protection Devices (DC SPD)	36

Industrial Circuit Breakers

Molded Case Circuit Breaker (MCCB)	37
Air Circuit Breaker (ACB)	41

Electrical Control Devices

AC Contactor	44
Thermal Overload Relay	45
Motor Protection Circuit Breaker	46
DOL Starter	47

Mini Circuit Breaker

Miniature Circuit Breakers (MCBs) are crucial components in modern electrical systems. They are designed to protect low-voltage electrical circuits and consist of a switch that automatically trips and cuts off the power supply when an overload or short circuit is detected. This feature helps prevent damage to the electrical circuit and equipment.

ETEK Electric provides a series of several types of miniature circuit breakers with different breaking capacities. You can check the MCB classification for more information.



MCB EKM1-63S 4.5kA

Mini Circuit Breaker



CB CE

Standard	IEC/EN60898-1
No. of poles	1P, 2P, 3P, 4P, 1P+N, 3P+N
Rated currents (In)	1-63A
Rated voltage (Ue)	240/415V~
Rated frequency	50/60Hz
Rated breaking capacity	4,500A
Rated impulse voltage (Uimp)	4,000V
Thermal release characteristic	(1.13-1.45) x In
Magnetic release characteristic	B, C, D
Electrical life	4,000 Cycles
Mechanical life	10,000 Cycles

MCB EKM1-63 6kA

Mini Circuit Breaker



CB CE A UK SAA

Standard	IEC/EN60898-1
No. of poles	1P, 2P, 3P, 4P, 1P+N, 3P+N
Rated currents (In)	1-63A
Rated voltage (Ue)	240/415V~
Rated frequency	50/60Hz
Rated breaking capacity	6,000A
Rated impulse voltage (Uimp)	4,000V
Thermal release characteristic	(1.13-1.45) x In
Magnetic release characteristic	B, C, D
Electrical life	4,000 Cycles
Mechanical life	10,000 Cycles

MCB EKM1-63H 10kA

Mini Circuit Breaker



CB CE A UK SAA

Standard	IEC/EN60898-1
No. of poles	1P, 2P, 3P, 4P, 1P+N, 3P+N
Rated currents (In)	1-63A
Rated voltage (Ue)	240/415V~
Rated frequency	50/60Hz
Rated breaking capacity	10,000A
Rated impulse voltage (Uimp)	4,000V
Thermal release characteristic	(1.13-1.45) x In
Magnetic release characteristic	B, C, D
Electrical life	4,000 Cycles
Mechanical life	10,000 Cycles

MCB EKM2-63X 4.5kA

Mini Circuit Breaker



CB CE

Standard	IEC/EN60898-1
No.of poles	1P,2P,3P,4P,1P+N,3P+N
Rated currents (In)	1-63A
Rated voltage (Ue)	240/415V~
Rated frequency	50/60Hz
Rated breaking capacity	4,500A
Rated impulse voltage (Uimp)	4,000V
Thermal release characteristic	(1.13-1.45) x In
Magnetic release characteristic	B, C, D
Electrical life	4,000 Cycles
Mechanical life	10,000 Cycles

MCB EKM2-63 6kA

Mini Circuit Breaker



CB CE UK CA

Standard	IEC/EN60898-1
No.of poles	1P,2P,3P,4P,1P+N,3P+N
Rated currents (In)	1-63A
Rated voltage (Ue)	240/415V~
Rated frequency	50/60Hz
Rated breaking capacity	6,000A
Rated impulse voltage (Uimp)	4,000V
Thermal release characteristic	(1.13-1.45) x In
Magnetic release characteristic	B, C, D
Electrical life	4,000 Cycles
Mechanical life	10,000 Cycles

MCB EKM2-63H 10kA

Mini Circuit Breaker



CB CE UK CA

Standard	IEC/EN60898-1
No.of poles	1P,2P,3P,4P,1P+N,3P+N
Rated currents (In)	1-63A
Rated voltage (Ue)	240/415V~
Rated frequency	50/60Hz
Rated breaking capacity	10,000A
Rated impulse voltage (Uimp)	4,000V
Thermal release characteristic	(1.13-1.45) x In
Magnetic release characteristic	B, C, D
Electrical life	4,000 Cycles
Mechanical life	10,000 Cycles

MCB EKM3-63S 4.5kA

Mini Circuit Breaker



CB CE

Standard	IEC/EN60898-1
No. of poles	1P, 2P, 3P, 4P, 1P+N, 3P+N
Rated currents (In)	1-63A
Rated voltage (Ue)	240/415V~
Rated frequency	50/60Hz
Rated breaking capacity	4,500A
Rated impulse voltage (Uimp)	4,000V
Thermal release characteristic	(1.13-1.45) x In
Magnetic release characteristic	B, C, D
Electrical life	4,000 Cycles
Mechanical life	10,000 Cycles

MCB EKM3-63 6kA

Mini Circuit Breaker



CB CE UK CA SAA

Standard	IEC/EN60898-1	IEC/EN60947-2
No. of poles	1P, 2P, 3P, 4P, 1P+N, 3P+N	
Rated currents (In)	1-63A	
Rated voltage (Ue)	240/415V~	
Rated frequency	50/60Hz	
Rated breaking capacity	6,000A	
Rated impulse voltage (Uimp)	6,000V	
Thermal release characteristic	(1.13-1.45) x In	(1.05-1.30) x In
Magnetic release characteristic	B, C	(8-12) x In
Electrical life	8,000 Cycles	
Mechanical life	20,000 Cycles	

MCB EKM3-63H 10kA

Mini Circuit Breaker



CB CE A UK SAA

Standard	IEC/EN60898-1
No. of poles	1P, 2P, 3P, 4P, 1P+N, 3P+N
Rated currents (In)	1-63A
Rated voltage (Ue)	240/415V~
Rated frequency	50/60Hz
Rated breaking capacity	10,000A
Rated impulse voltage (Uimp)	4,000V
Thermal release characteristic	(1.13-1.45) x In
Magnetic release characteristic	B, C, D
Electrical life	4,000 Cycles
Mechanical life	10,000 Cycles

MCB EKM1-40N/EKM2-40N 6kA

Mini Circuit Breaker



CB CE UK CA B

Standard	IEC/EN60898-1
No. of poles	1P+N
Rated currents (In)	6-40A
Rated voltage (Ue)	230/240V~
Rated frequency	50/60Hz
Rated breaking capacity	6,000A
Rated impulse voltage (Uimp)	4,000V
Thermal release characteristic	(1.13-1.45) x In
Magnetic release characteristic	EKM1-40N: B, C EKM2-40N: B, C, D
Electrical life	4,000 Cycles
Mechanical life	10,000 Cycles

MCB EKM3-100 6kA

Mini Circuit Breaker



CB CE UK CA

Standard	IEC/EN60898-1
No. of poles	1P, 2P, 3P, 4P, 1P+N, 3P+N
Rated currents (In)	63-100A
Rated voltage (Ue)	240/415V~
Rated frequency	50/60Hz
Rated breaking capacity	6,000A
Rated impulse voltage (Uimp)	4,000V
Thermal release characteristic	(1.13-1.45) x In
Magnetic release characteristic	C, D
Electrical life	4,000 Cycles
Mechanical life	10,000 Cycles

MCB EKM1-125S 6kA

Mini Circuit Breaker



CB CE

Standard	IEC/EN60898-1
No. of poles	1P, 2P, 3P, 4P, 1P+N, 3P+N
Rated currents (In)	63-125A
Rated voltage (Ue)	240/415V~
Rated frequency	50/60Hz
Rated breaking capacity	6,000A
Rated impulse voltage (Uimp)	4,000V
Thermal release characteristic	(1.13-1.45) x In
Magnetic release characteristic	C, D
Electrical life	4,000 Cycles
Mechanical life	10,000 Cycles

MCB EKM1-125H 15kA

Mini Circuit Breaker



CB CE

Standard	IEC/EN60898-1	IEC/EN60947-2
No. of poles	1P, 2P, 3P, 4P, 1P+N, 3P+N	
Rated currents (In)	63-125A	
Rated voltage (Ue)	240/415V~	
Rated frequency	50/60Hz	
Rated breaking capacity	10,000A	15,000A
Rated impulse voltage (Uimp)	4,000V	
Thermal release characteristic	$(1.13-1.45) \times I_n$	$(1.05-1.30) \times I_n$
Magnetic release characteristic	C, D	$(8-12) \times I_n$
Electrical life	4,000 Cycles	
Mechanical life	10,000 Cycles	

MCB EKM2-125H 10kA

Mini Circuit Breaker



CB CE

Standard	IEC/EN60898-1	IEC/EN60947-2
No. of poles	1P, 2P, 3P, 4P, 1P+N, 3P+N	
Rated currents (In)	63-125A	
Rated voltage (Ue)	240/415V~	
Rated frequency	50/60Hz	
Rated breaking capacity	6,000A	10,000A
Rated impulse voltage (Uimp)	4,000V	
Thermal release characteristic	$(1.13-1.45) \times I_n$	$(1.05-1.30) \times I_n$
Magnetic release characteristic	C, D	$(8-12) \times I_n$
Electrical life	4,000 Cycles	
Mechanical life	10,000 Cycles	

MCB EKM3-125H 10kA

Mini Circuit Breaker



CB CE UK CA

Standard	IEC/EN60898-1	IEC/EN60947-2
No. of poles	1P, 2P, 3P, 4P, 1P+N, 3P+N	
Rated currents (In)	80-125A	
Rated voltage (Ue)	240/415V~	
Rated frequency	50/60Hz	
Rated breaking capacity	6,000A	10,000A
Rated impulse voltage (Uimp)	4,000V	
Thermal release characteristic	$(1.13-1.45) \times I_n$	$(1.05-1.30) \times I_n$
Magnetic release characteristic	C, D	$(8-12) \times I_n$
Electrical life	4,000 Cycles	
Mechanical life	10,000 Cycles	

Plug-in MCB EKM3-63P 6kA

Plug-in Miniature Circuit Breaker



Standard	IEC 60898-1
No. of poles	1P, 2P, 3P
Rated currents (In)	1-63A
Rated voltage (Ue)	240/415V~
Rated frequency	50/60Hz
Rated breaking capacity	6,000A
Rated impulse voltage (Uimp)	4,000V
Thermal release characteristic	(1.13-1.45) x In
Magnetic release characteristic	C
Electrical endurance (Number of operation cycles)	≥10000
Mounting type	Plug-in

DC MCB EKM1-63DC

Mini Circuit Breaker



Standard	IEC/EN60947-2
No. of poles	1P, 2P, 4P
Rated currents (In)	1-63A
Rated voltage (Ue)	1P(250VDC), 2P(500VDC), 4P(1000VDC)
Rated breaking capacity	6,000A
Rated impulse voltage (Uimp)	4,000V
Thermal release characteristic	(1.05-1.30) x In
Magnetic release characteristic	(8-12) x In
Electrical life	4,000 Cycles
Mechanical life	10,000 Cycles

DC MCB EKM1-125DC

Mini Circuit Breaker



Standard	IEC/EN60947-2
No. of poles	1P, 2P, 4P
Rated currents (In)	80-125A
Rated voltage (Ue)	1P(250VDC), 2P(500VDC), 4P(1000VDC)
Rated breaking capacity	10,000A
Rated impulse voltage (Uimp)	4,000V
Thermal release characteristic	(1.05-1.30) x In
Magnetic release characteristic	(8-12) x In
Electrical life	4,000 Cycles
Mechanical life	10,000 Cycles

DZ47-63S Economic Type

Mini Circuit Breaker



CB CE

Standard	IEC/EN60898-1
No. of poles	1P, 2P, 3P, 4P, 1P+N, 3P+N
Rated currents (In)	1-63A
Rated voltage (Ue)	240/415V~
Rated frequency	50/60Hz
Rated breaking capacity	4,500A
Rated impulse voltage (Uimp)	4,000V
Thermal release characteristic	(1.13-1.45) x In
Magnetic release characteristic	B, C, D
Electrical life	4,000 Cycles
Mechanical life	10,000 Cycles

EKM2-63M Economic Type

Mini Circuit Breaker



CB CE

Standard	IEC/EN60898-1
No. of poles	1P, 2P, 3P, 4P, 1P+N, 3P+N
Rated currents (In)	1-63A
Rated voltage (Ue)	240/415V~
Rated frequency	50/60Hz
Rated breaking capacity	4,500A
Rated impulse voltage (Uimp)	4,000V
Thermal release characteristic	(1.13-1.45) x In
Magnetic release characteristic	B, C, D
Electrical life	4,000 Cycles
Mechanical life	10,000 Cycles

EKM2-125 Economic Type

Mini Circuit Breaker



CB CE

Standard	IEC/EN60898-1	IEC/EN60947-2
No. of poles	1P, 2P, 3P, 4P, 1P+N, 3P+N	
Rated currents (In)	63-125A	
Rated voltage (Ue)	240/415V~	
Rated frequency	50/60Hz	
Rated breaking capacity	6,000A	
Rated impulse voltage (Uimp)	4,000V	
Thermal release characteristic	(1.13-1.45) x In	(1.05-1.30) x In
Magnetic release characteristic	B, C	(8-12) x In
Electrical life	4,000 Cycles	
Mechanical life	10,000 Cycles	

Residual Current Circuit Breaker

RCCB, or Residual Current Circuit Breaker, is an electrical safety device that detects and interrupts an electrical circuit when there is a leakage current to the ground. It is designed to protect people and equipment from electric shocks, fires, and other hazards caused by faulty wiring, insulation failure, or accidental contact with live parts. The RCCB is a leakage current sensing device that can automatically measure and disconnect the circuit whenever a fault occurs, or the current exceeds the rated sensitivity. In combination with an MCB or fuse, RCCBs ensure protection against electric shock caused by indirect contact.

ETEK Electric can currently provide you with a variety of diverse types of RCCB (such as AC, A, S, B, B+(B+DC6mA), EV(A+DC6mA)) to meet the needs of different application scenarios.



RCCB EKL1-63(H)

Residual Current Circuit Breaker



CB CE Δ UK

RCCB EKL1-80(H)

Residual Current Circuit Breaker



CB CE (B)

RCCB EKL1-125H 10kA

Residual Current Circuit Breaker



CB CE

Standard	IEC/EN61008-1
No.of poles	1P+N, 3P+N
Rated currents (In)	16-63A
Type of protection	AC, A, G, S
Rated sensitivity currents (IΔn)	10, 30, 100, 300mA
Residual current off-time under IΔn	≤0.1s
Rated voltage (Ue)	1P+N: 230/240V~ 3P+N: 400/415V~
Rated frequency	50/60Hz
Rated breaking capacity	6,000A, 10,000A
Rated impulse voltage (Uimp)	4,000V
Electrical life	2,000 Cycles
Mechanical life	4,000 Cycles

Standard	IEC/EN61008-1
No.of poles	1P+N, 3P+N
Rated currents (In)	16-80A
Type of protection	AC, A, G, S
Rated sensitivity currents (IΔn)	10, 30, 100, 300mA
Residual current off-time under IΔn	≤0.1s
Rated voltage (Ue)	1P+N: 230/240V~ 3P+N: 400/415V~
Rated frequency	50/60Hz
Rated breaking capacity	6,000A, 10,000A
Rated impulse voltage (Uimp)	4,000V
Electrical life	2,000 Cycles
Mechanical life	4,000 Cycles

Standard	IEC/EN61008-1
No.of poles	1P+N, 3P+N
Rated currents (In)	80-125A
Type of protection	AC, A, G, S
Rated sensitivity currents (IΔn)	30, 100, 300mA
Residual current off-time under IΔn	≤0.1s
Rated voltage (Ue)	1P+N: 230/240V~ 3P+N: 400/415V~
Rated frequency	50/60Hz
Rated breaking capacity	10,000A
Rated impulse voltage (Uimp)	4,000V
Electrical life	2,000 Cycles
Mechanical life	4,000 Cycles

RCCB EKL6-100(H)

Residual Current Circuit Breaker



CB CE Δ UK

RCCB EKL11-63(H)

Residual Current Circuit Breaker



CB CE UK SAA

RCCB EKL11-63T(H)

Residual Current Circuit Breaker



CB CE UK SAA

Standard	IEC/EN61008-1
No. of poles	1P+N, 3P+N
Rated currents (I _n)	16-100A
Type of protection	AC, A, G, S
Rated sensitivity currents (I _{Δn})	10, 30, 100, 300mA
Residual current off-time under I _{Δn}	≤0.1s
Rated voltage (U _e)	1P+N: 230/240V~ 3P+N: 400/415V~
Rated frequency	50/60Hz
Rated breaking capacity	6,000A, 10,000A
Rated impulse voltage (U _{imp})	4,000V
Electrical life	2,000 Cycles
Mechanical life	4,000 Cycles

Standard	IEC/EN61008-1
No. of poles	1P+N, 3P+N
Rated currents (I _n)	16-63A
Type of protection	AC, A, G, S
Rated sensitivity currents (I _{Δn})	10, 30, 100, 300mA
Residual current off-time under I _{Δn}	≤0.1s
Rated voltage (U _e)	1P+N: 230/240V~ 3P+N: 400/415V~
Rated frequency	50/60Hz
Rated breaking capacity	6,000A, 10,000A
Rated impulse voltage (U _{imp})	4,000V
Electrical life	2,000 Cycles
Mechanical life	4,000 Cycles

Standard	IEC/EN61008-1
No. of poles	1P+N, 3P+N
Rated currents (I _n)	16-63A
Type of protection	AC, A, G, S
Rated sensitivity currents (I _{Δn})	10, 30, 100, 300mA
Residual current off-time under I _{Δn}	≤0.1s
Rated voltage (U _e)	1P+N: 230/240V~ 3P+N: 400/415V~
Rated frequency	50/60Hz
Rated breaking capacity	6,000A, 10,000A
Rated impulse voltage (U _{imp})	4,000V
Electrical life	2,000 Cycles
Mechanical life	4,000 Cycles

RCCB Type B EKL1-63B

Residual Current Circuit Breaker



CB CE UK CA

RCCB Type B EKL6-100B

Residual Current Circuit Breaker



CB CE UK CA

RCCB Type EV EKL6-63EV

Residual Current Circuit Breaker



CB CE UK CA SAA

Standard	IEC/EN61008-1, IEC62423
No. of poles	1P+N, 3P+N
Rated currents (In)	16-63A
Type of protection	B
Rated sensitivity currents (IΔn)	30, 100, 300mA
Residual current off-time under IΔn	≤0.1s
Rated voltage (Ue)	1P+N: 230/240V~ 3P+N: 400/415V~
Rated frequency	50/60Hz
Rated breaking capacity	10,000A
Rated impulse voltage (Uimp)	4,000V
Electrical life	2,000 Cycles
Mechanical life	4,000 Cycles

Standard	IEC61008-1, IEC62423
No. of poles	1P+N, 3P+N
Rated currents (In)	16-100A
Type of protection	B
Rated sensitivity currents (IΔn)	30, 100, 300mA
Residual current off-time under IΔn	≤0.1s
Rated voltage (Ue)	1P+N: 240V~ 3P+N: 415V~
Rated frequency	50/60Hz
Rated breaking capacity	10,000A
Rated impulse voltage (Uimp)	4,000V
Electrical life	2,000 Cycles
Mechanical life	4,000 Cycles

Standard	IEC61008-1, IEC62955
No. of poles	1P+N, 3P+N
Rated currents (In)	25-63A
Type of protection	A
Rated sensitivity currents (IΔn)	30mA
DC tripping threshold (IΔdc)	6mA
Residual current off-time under IΔn	≤0.1s
Rated voltage (Ue)	1P+N: 240V~ 3P+N: 415V~
Rated frequency	50/60Hz
Rated breaking capacity	10,000A
Rated impulse voltage (Uimp)	4,000V
Electrical life	2,000 Cycles
Mechanical life	4,000 Cycles

RCCB with Over-current Protection

RCBO, short for Residual Current Circuit Breaker with Overcurrent Protection, is an automatic electrical switch that plays a crucial role in protecting circuits and individuals from electrical hazards. It is designed to detect any current leakage in the circuit that exceeds the rated sensitivity and automatically disconnects the circuit in the event of a fault.

RCBOs are widely used in residential, commercial, industrial, medical, laboratory, and scientific applications where circuits and equipment need to be protected from leakage currents. Compared to RCD, RCBO offers both leakage protection and overload and short circuit protection, making it a safer and more reliable option.

At ETEK Electric, we offer a variety of RCBO types, including AC, A, S, B, and EV(A+DC6mA), to meet different application scenarios. Our RCBOs are carefully designed and manufactured to provide the highest level of protection to your electrical systems and personnel.



RCBO EKL2-40 6kA

RCCB with Overcurrent Protection
(Electronic Type)



CB CE UK CA

Standard	IEC/EN61009-1
No. of poles	1P+N
Rated currents (In)	6-40A
Type of protection	AC, A
Rated sensitivity currents (IΔn)	10, 30, 100, 300mA
Residual current off-time under IΔn	≤0.1s
Rated voltage (Ue)	230/240V~
Rated frequency	50/60Hz
Rated breaking capacity	6,000A
Rated impulse voltage (Uimp)	4,000V
Thermal-magnetic characteristic	B, C
Electrical life	4,000 Cycles
Mechanical life	10,000 Cycles

RCBO EKL7-40 6kA

RCCB with Overcurrent Protection
(Electronic Type)



CB CE UK CA

Standard	IEC/EN61009-1
No. of poles	1P+N
Rated currents (In)	6-40A
Type of protection	AC, A
Rated sensitivity currents (IΔn)	10, 30, 100, 300mA
Residual current off-time under IΔn	≤0.1s
Rated voltage (Ue)	230/240V~
Rated frequency	50/60Hz
Rated breaking capacity	6,000A
Rated impulse voltage (Uimp)	4,000V
Thermal-magnetic characteristic	B, C
Electrical life	4,000 Cycles
Mechanical life	10,000 Cycles

RCBO EKL17-40 6kA

RCCB with Overcurrent Protection
(Electronic Type)



CB CE UK CA

Standard	IEC/EN61009-1
No. of poles	1P+N
Rated currents (In)	6-40A
Type of protection	AC, A
Rated sensitivity currents (IΔn)	10, 30, 100, 300mA
Residual current off-time under IΔn	≤0.1s
Rated voltage (Ue)	230/240V~
Rated frequency	50/60Hz
Rated breaking capacity	6,000A
Rated impulse voltage (Uimp)	4,000V
Thermal-magnetic characteristic	B, C
Electrical life	4,000 Cycles
Mechanical life	10,000 Cycles

RCBO EKL3-40S 4.5kA

RCCB with Overcurrent Protection
(Electronic Type)



CB CE

Standard	IEC/EN61009-1
No. of poles	1P+N
Rated currents (In)	6-40A
Type of protection	AC, A
Rated sensitivity currents (IΔn)	10, 30, 100, 300mA
Residual current off-time under IΔn	≤0.1s
Rated voltage (Ue)	230/240V~
Rated frequency	50/60Hz
Rated breaking capacity	4,500A
Rated impulse voltage (Uimp)	4,000V
Thermal-magnetic characteristic	B, C
Electrical life	4,000 Cycles
Mechanical life	10,000 Cycles

RCBO EKL3-63 6kA

RCCB with Overcurrent Protection
(Electronic Type)



CB CE UK CA SAA

Standard	IEC/EN61009-1
No. of poles	1P+N
Rated currents (In)	6-63A
Type of protection	AC, A
Rated sensitivity currents (IΔn)	10, 30, 100, 300mA
Residual current off-time under IΔn	≤0.1s
Rated voltage (Ue)	230/240V~
Rated frequency	50/60Hz
Rated breaking capacity	6,000A
Rated impulse voltage (Uimp)	4,000V
Thermal-magnetic characteristic	B, C
Electrical life	4,000 Cycles
Mechanical life	10,000 Cycles

RCBO EKL3-40M 6kA

RCCB with Overcurrent Protection
(Electro-magnetic Type)



CB CE UK CA SAA

Standard	IEC/EN61009-1
No. of poles	1P+N
Rated currents (In)	6-40A
Type of protection	AC, A
Rated sensitivity currents (IΔn)	30, 100, 300mA
Residual current off-time under IΔn	≤0.1s
Rated voltage (Ue)	230/240V~
Rated frequency	50/60Hz
Rated breaking capacity	6,000A
Rated impulse voltage (Uimp)	4,000V
Thermal-magnetic characteristic	B, C
Electrical life	4,000 Cycles
Mechanical life	10,000 Cycles

RCBO EKL5-63S 4.5kA

RCCB with Overcurrent Protection
(Electronic Type)



CB CE

RCBO EKL5-63(H)

RCCB with Overcurrent Protection
(Electronic Type)



CB CE UK CA SAA

RCBO EKL8-40M 6kA

RCCB with Overcurrent Protection
(Electro-magnetic Type)



CB CE UK CA

RCBO

Standard	IEC/EN61009-1
No.of poles	1P+N, 3P+N (N Pole on left)
Rated currents (In)	6-63A
Type of protection	AC, A, S
Rated sensitivity currents (IΔn)	10, 30, 100, 300mA
Residual current off-time under IΔn	≤0.1s
Rated voltage (Ue)	1P+N: 230/240V~ 3P+N: 400/415V~
Rated frequency	50/60Hz
Rated breaking capacity	4,500A
Rated impulse voltage (Uimp)	4,000V
Thermal-magnetic characteristic	B, C, D
Electrical life	4,000 Cycles
Mechanical life	10,000 Cycles

Standard	IEC/EN61009-1
No.of poles	1P+N, 3P+N
Rated currents (In)	6-63A
Type of protection	AC, A, S
Rated sensitivity currents (IΔn)	10, 30, 100, 300mA
Residual current off-time under IΔn	≤0.1s
Rated voltage (Ue)	1P+N: 230/240V~ 3P+N: 400/415V~
Rated frequency	50/60Hz
Rated breaking capacity	6,000A, 10,000A
Rated impulse voltage (Uimp)	4,000V
Thermal-magnetic characteristic	B, C, D
Electrical life	4,000 Cycles
Mechanical life	10,000 Cycles

Standard	IEC/EN61009-1
No.of poles	1P+N
Rated currents (In)	6-40A
Type of protection	AC, A
Rated sensitivity currents (IΔn)	30, 100, 300mA
Residual current off-time under IΔn	≤0.1s
Rated voltage (Ue)	230/240V~
Rated frequency	50/60Hz
Rated breaking capacity	6,000A
Rated impulse voltage (Uimp)	4,000V
Thermal-magnetic characteristic	B, C
Electrical life	4,000 Cycles
Mechanical life	10,000 Cycles

RCBO EKL8-80 6kA

RCCB with Overcurrent Protection
(Electronic Type)



CB CE UK CA

RCBO EKL9-40 6kA

RCCB with Overcurrent Protection
(Electronic Type)



CB CE UK CA SAA

RCBO EKL19-40 6kA

RCCB with Overcurrent Protection
(Electronic Type)



CB CE UK CA SAA

Standard	IEC/EN61009-1
No. of poles	1P+N
Rated currents (In)	6-80A
Type of protection	AC, A
Rated sensitivity currents (IΔn)	30, 100, 300mA
Residual current off-time under IΔn	≤0.1s
Rated voltage (Ue)	230/240V~
Rated frequency	50/60Hz
Rated breaking capacity	6,000A
Rated impulse voltage (Uimp)	4,000V
Thermal-magnetic characteristic	B, C
Electrical life	4,000 Cycles
Mechanical life	10,000 Cycles

Standard	IEC/EN61009-1
No. of poles	1P+N
Rated currents (In)	6-40A
Type of protection	AC, A
Rated sensitivity currents (IΔn)	10, 30, 100, 300mA
Residual current off-time under IΔn	≤0.1s
Rated voltage (Ue)	230/240V~
Rated frequency	50/60Hz
Rated breaking capacity	6,000A
Rated impulse voltage (Uimp)	4,000V
Thermal-magnetic characteristic	B, C
Electrical life	4,000 Cycles
Mechanical life	10,000 Cycles

Standard	IEC/EN61009-1
No. of poles	1P+N
Rated currents (In)	6-40A
Type of protection	AC, A
Rated sensitivity currents (IΔn)	10, 30, 100, 300mA
Residual current off-time under IΔn	≤0.1s
Rated voltage (Ue)	230/240V~
Rated frequency	50/60Hz
Rated breaking capacity	6,000A
Rated impulse voltage (Uimp)	4,000V
Thermal-magnetic characteristic	B, C
Electrical life	4,000 Cycles
Mechanical life	10,000 Cycles

RCBO EKL13-63

RCCB with Overcurrent Protection
(Electronic Type)



CB CE UK CA SAA

Standard	IEC/EN61009-1
No. of poles	1P+N
Rated currents (I _n)	6-63A
Type of protection	AC, A
Rated sensitivity currents (I _{Δn})	10, 30, 100, 300mA
Residual current off-time under I _{Δn}	≤0.1s
Rated voltage (U _e)	230/240V~
Rated frequency	50/60Hz
Rated breaking capacity	6,000A
Rated impulse voltage (U _{imp})	4,000V
Thermal-magnetic characteristic	B, C
Electrical life	4,000 Cycles
Mechanical life	10,000 Cycles

RCBO EKL15-63(H)

RCCB with Overcurrent Protection
(Electronic Type)



CB CE UK CA SAA

Standard	IEC/EN61009-1
No. of poles	1P+N, 3P+N
Rated currents (I _n)	6-63A
Type of protection	AC, A, S
Rated sensitivity currents (I _{Δn})	10, 30, 100, 300mA
Residual current off-time under I _{Δn}	≤0.1s
Rated voltage (U _e)	1P+N: 230/240V~ 3P+N: 400/415V~
Rated frequency	50/60Hz
Rated breaking capacity	6,000A, 10,000A
Rated impulse voltage (U _{imp})	4,000V
Thermal-magnetic characteristic	B, C, D
Electrical life	4,000 Cycles
Mechanical life	10,000 Cycles

RCBO Type B EKL5-63B

RCCB with Overcurrent Protection
(Electronic Type)



CB CE UK CA SAA

Standard	IEC/EN61009-1, IEC/EN62423
No. of poles	1P+N, 3P+N
Rated currents (I _n)	6-63A
Type of protection	B
Rated sensitivity currents (I _{Δn})	30, 100, 300mA
Residual current off-time under I _{Δn}	≤0.1s
Rated voltage (U _e)	1P+N: 230/240V~ 3P+N: 400/415V~
Rated frequency	50/60Hz
Rated breaking capacity	6,000A, 10,000A
Rated impulse voltage (U _{imp})	4,000V
Thermal-magnetic characteristic	B, C, D
Electrical life	4,000 Cycles
Mechanical life	10,000 Cycles

Arc-Fault Detection Device

AFDD, or Arc Fault Detection Device, is an electrical safety device designed to detect and prevent electrical arc faults in a circuit. When an arc fault is detected, the device will interrupt the circuit, preventing potential fire hazards. Some AFDDs are combined with residual current circuit breakers (RCCB) and miniature circuit breakers (MCB) to provide comprehensive protection against several types of electrical faults.

Protect your home from electrical fires by installing our dependable Arc Fault Detection Devices (AFDDs) from ETEK Electric.



Complete Circuit Protection					
	Over Current	Short Circuit	Earth Leakage	Series Arc Fault	Parallel Arc Fault
MCB	✓	✓	✗	✗	✗
RCCB	✗	✗	✓	✗	✗
RCBO	✓	✓	✓	✗	✗
AFDD	✗	✗	✗	✓	✓
AFDD integrated with RCBO	✓	✓	✓	✓	✓

EKL9-40AFD RCBO AFDD

RCBO with Arc Fault Protective



Standard	IEC/EN61009-1, IEC62026
No. of poles	1P+N
Rated currents (In)	6-40A
Type of protection	AC, A
Rated sensitivity currents (IΔn)	10, 30, 100, 300mA
Residual current off-time under IΔn	≤0.1s
Rated voltage (Ue)	240V~
Rated frequency	50Hz
Rated breaking capacity	6,000A
Rated impulse voltage (Uimp)	4,000V
Thermal-magnetic characteristic	B, C
Electrical life	4,000 Cycles
Mechanical life	10,000 Cycles
Connection	From top

EKL17-40AFD RCBO AFDD

RCBO with Arc Fault Protective



Standard	IEC/EN61009-1, IEC62026
No. of poles	1P+N
Rated currents (In)	6-40A
Type of protection	A
Rated sensitivity currents (IΔn)	10, 30, 100, 300mA
Residual current off-time under IΔn	≤0.1s
Rated voltage (Ue)	230/240V~
Rated frequency	50/60Hz
Rated breaking capacity	6,000A
Rated impulse voltage (Uimp)	4,000V
Thermal-magnetic characteristic	B, C
Electrical life	4,000 Cycles
Mechanical life	10,000 Cycles
Connection	From bottom

Isolator Switch

Isolator Switch or Switch Disconnecter is an essential electrical component used to isolate power supply or devices. It is designed to cut off the power supply or separate the device from the power source, ensuring the safety of maintenance and overhaul work.

During repair or maintenance of electrical equipment, staff must not meet live parts, and an Isolator Switch helps prevent such accidents from occurring.



EKD1-125

Isolator Switch



CB CE UK CA

Standard	IEC/EN60947-3
No.of poles	1P, 2P, 3P, 4P
Rated currents (In)	16-125A
Rated voltage (Ue)	240/415V~
Rated frequency	50/60Hz
Rated impulse voltage (Uimp)	4,000V
Electrical life	2,000 Cycles
Mechanical life	10,000 Cycles

EKD2-125

Isolator Switch



CB CE UK CA

Standard	IEC/EN60947-3
No.of poles	1P, 2P, 3P, 4P
Rated currents (In)	16-125A
Rated voltage (Ue)	240/415V~
Rated frequency	50/60Hz
Rated impulse voltage (Uimp)	4,000V
Electrical life	2,000 Cycles
Mechanical life	10,000 Cycles

EKD3-125

Isolator Switch



CB CE UK CA

Standard	IEC/EN60947-3
No.of poles	1P, 2P, 3P, 4P
Rated currents (In)	16-125A
Rated voltage (Ue)	240/415V~
Rated frequency	50/60Hz
Rated impulse voltage (Uimp)	4,000V
Electrical life	2,000 Cycles
Mechanical life	10,000 Cycles

Smart Circuit Breaker

Smart Circuit Breaker - an advanced electronic device designed to operate and monitor circuits, as well as collect usage data of the connected load devices through remote control. With real-time feedback and recording capabilities, this innovative device can provide comprehensive information on the status of circuits and equipment via the Internet.

ETEK Electric offer four distinct series of Smart Circuit Breakers - EKR3, EKR3L (with optional automatic reclosing), EKR3S and EKR0. Our range of products is designed to cater to the diverse needs of our customers, ensuring that they have access to the best solutions for their unique requirements.





EKR3



EKR3S



EKR3L



EKR0

Model	EKR3	EKR3S	EKR3L	EKR0
No. of poles	1P, 2P, 3P, 4P	1P, 2P, 3P, 4P	2P	2P, 4P
Rated voltage (Ue)	240/415V	240/415V	230/240V	240/415V
Rated currents (In)	6-63A	63-100A	6-63A	6-63A
Rated breaking capacity	6000A	6000A	6000A	6000A
Rated sensitivity currents (IΔn)	-	-	30, 100, 300mA	30, 100, 300mA
Remote control	●	●	●	●
Padlock	●	●	●	●
Timed task	●	●	●	●
Automatic reclosing	○	/	○	/
Power metering	/	○	/	●
Fault feedback	/	●	/	●
Overvoltage protection	○	●	○	●
Undervoltage protection	○	●	○	●
Overcurrent protection	●	●	●	●
Overload protection	●	●	●	●
Leakage protection	/	/	●	●
Leakage detection	/	/	/	○
Over temperature protection	/	○	/	●
Short circuit protection	●	●	●	●
Data collection	/	●	/	●
Power limit	/	●	/	●
Fault record	/	●	/	●

Note: ● Standard ○ Optional / None

EKM1-MX / EKM1-MX+MN

Shunt Release / Over/Under-voltage Tripper



Standard	IEC/EN60947-5-1
Rated voltage (Ue)	AC230V
Rated impulse voltage (Uimp)	4,000V
Over-voltage tripping range	280V±5%
Under-voltage tripping range	170V±5%
Electrical life	4,000 Cycles
Mechanical life	4,000 Cycles
Applicable models	EKM1,EKM3,EKL3,EKL13

EKM1-OF / EKM1-FB

Auxiliary Contact / Alarm Auxiliary Contact



Standard	IEC/EN60947-5-1
Rated value	AC415/400V, 50/60Hz, 3A AC240/400V, 50/60Hz, 3A DC130V, 1A DC48V, 2A DC24V, 6A
Configurations	EKM1-OF: 1NO+1NC EKM1-FB: 2NO+2NC
Rated impulse voltage (Uimp)	4,000V
Electrical life	6,000 Cycles
Mechanical life	10,000 Cycles
Applicable models	EKM1,EKM3,EKL3,EKL13

EKM2-UT / EKM2-ST

Over/Under-voltage Tripper / Shunt Release Tripper



Standard	IEC/EN60947-5-1
Rated value	EKM2-UT: AC230V, 50/60Hz EKM2-ST: AC230V/400V, 50/60Hz AC/DC24V AC/DC48V
Rated impulse voltage (Uimp)	4,000V
Electrical life	4,000 Cycles
Mechanical life	4,000 Cycles

EKM2-OF / EKM2-FB

Auxiliary Contact / Alarm Auxiliary Contact



Standard	IEC/EN60947-5-1
Rated value	AC415V, 50/60Hz, 3A AC240V, 50/60Hz, 6A DC130V, 1A DC48V, 2A DC24V, 6A
Configurations	1NO+1NC
Rated impulse voltage (Uimp)	4,000V
Electrical life	6,050 Cycles
Mechanical life	10,000 Cycles
Applicable models	EKM2 MCB

Other Modular Devices

ETEK Electric can not only provide common MCBs, RCCBs, RCBOs and SPDs in circuit protection, but also provide other modular equipment, including Modular Contactors, MCB Changeover Switch, Modular Voltage Meter, Modular Signal Lamp, LV Fuses, etc.

These devices can assist users to diversify circuit protection and management and provide the best protection measures for electrical equipment and appliances.



EKMF

Modular AC Contactor



Standard	IEC61095
Poles	1P, 2P, 3P, 4P
Method of control	Automatic
Rated operational voltage Ue (V)	AC250V (1P, 2P), AC400V (3P, 4P)
Number of main contacts	1P: 1NO,1NC; 2P: 1NO+1NC, 2NO2NC 3P: 3NO, 3NC; 4P: 2NO+2NC, 3NO+1NC, 4NO, 4NC
Rated impulse withstand voltage Uimp (V)	4kV
Rated operational currents Ie (A)	16-125A (AC-7a), 6-50A (AC-7b)
Rated frequency (Hz)	50/60Hz
Utilization category	AC-7a/AC-7b
Rated control supply voltage Us	AC24V; AC110V; AC220-240V
Mechanical life (times)	10 × 10 ⁶
Electrical life (times)	10 × 10 ⁵

EKMF7

Modular AC/DC Contactor



Standard	IEC61095, IEC60947-4-1
Poles	1P, 2P, 3P, 4P
Method of control	Automatic
Rated operational voltage Ue (V)	AC250V (1P, 2P), AC400V (3P, 4P)
Number of main contacts	1P: 1NO,1NC; 2P: 1NO+1NC, 2NO2NC 3P: 3NO, 3NC; 4P: 2NO+2NC, 3NO+1NC, 4NO, 4NC
Rated impulse withstand voltage Uimp (V)	4kV
Rated operational currents Ie (A)	16-63A (AC-1/AC-7a), 6-25A (AC-3/AC-7b)
Rated frequency (Hz)	50/60Hz
Utilization category	AC-1/AC-7a; AC-3/AC-7b
Rated control supply voltage Us	12V, 24V, 48V, 110V, 230V AC/DC
Mechanical life (times)	10 × 10 ⁶
Electrical life (times)	10 × 10 ⁵

EKCS101

Changeover Switch



Changeover Switch

Standard	IEC/EN60947-3
No.of poles	1P, 2P, 3P, 4P
Rated currents (In)	16, 25, 32, 40A
Rated voltage (Ue)	240/415V~
Rated frequency	50/60Hz
Contact form	I-0-II
Electrical life	1,500 Cycles
Mechanical life	8,500 Cycles

EKCS101H

Changeover Switch



Standard	IEC/EN60947-3
No.of poles	1P, 2P, 3P, 4P
Rated currents (In)	16, 25, 32, 40, 63, 80A
Rated voltage (Ue)	240/415V~
Rated frequency	50/60Hz
Contact form	I-0-II
Electrical life	1,500 Cycles
Mechanical life	10,000 Cycles

EKCS101G Changeover Switch



Standard	IEC/EN60947-3
No.of poles	1P, 2P, 3P, 4P
Rated currents (In)	63, 80, 100, 125A
Rated voltage (Ue)	240/415V~
Rated frequency	50/60Hz
Contact form	I-O-II
Electrical life	1,500 Cycles
Mechanical life	8,500 Cycles

EKCS201 Changeover Switch



Standard	IEC/EN60947-3
No.of poles	1P, 2P, 3P, 4P
Rated currents (In)	16, 25, 32, 40A
Rated voltage (Ue)	240/415V~
Rated frequency	50/60Hz
Contact form	I-O-II
Electrical life	1,500 Cycles
Mechanical life	8,500 Cycles

EKMV

Modular Voltage Meter



EKMV1

EKMV3

Standard	IEC60051-1
Terminal for wiring	Single phase L+N, Three phase 3L+3N
Measurement voltage range	AC 80V~500V
Rated frequency	50/60Hz
Working current	≤20mA
Measuring accuracy	1.0
Measuring rate	>200MS/time
Protection degree	IP20
Electrical Life	≥15000 hours

EKSL

Modular Signal Lamp



EKSL1

EKSL3

EKSL1M

EKSL3M

Standard	IEC60947-5-1
Number of poles	1P
Rated operational current	≤20mA
Rated operational voltage (Ue)	230V AC, 100V AC or 48V AC/DC, 24V AC/DC
Rated insulation voltage (Ui)	500V
Rated frequency	50/60Hz
Colour	EKSL1: Red, Green, Yellow EKSL3: Red/Green/Yellow, Red/Green/Blue
Connection capacity	Rigid conductor 1.5mm ²
Max power	0.6W
Life	LED ≥30000h

EKF1

Modular Fuse Holder



Standard	IEC60269-3
Product item	RT18 Fuse Holders
Rated current	32, 63, 125A
Rated voltage (Ue)	250/500/690VAC
Rated insulation voltage (Ui)	500/800VAC
Pole	1P, 2P, 3P, 4P, 1P+N, 3P+N
Fuse size	10×38mm, 14×51mm, 22×58mm
Applications	Industrial Control Cabinets
Operation mode	Direct Front or External Operation Handle
Protection degree	IP20
Mounting method	Din rail installation

EKFL

Modular Fuse Link



Standard	IEC60269-2
Material	Porcelain, Copper
Product item	RT18-32, RT18-63, RT18-125
Size	10×38mm, 14×51mm, 22×58mm
Utilization category	gL/gG
Rated current	2-125A
Rated voltage Ue	500/690VAC
Breaking capacity (kA)	100kA(500VAC)/50kA(690VAC)
Applications	Power control system, industry electrical equipment

Surge Protective Device

Surge Protection Devices (SPDs) are designed to protect electrical and electronic equipment from transient surge conditions, such as voltage spikes and surges caused by lightning, power anomalies, or other electrical disturbances. These devices work by limiting the voltage supplied to an electric device by either blocking or redirecting the surge current to the ground, thus preventing damage to the equipment, and ensuring its safety.

ETEK Electric offers a range of surge protectors that are designed to protect against AC or DC surges. We provide three diverse types of surge protectors, which include T1, T1+T2, and T2.



EKU5-T1+T2-7

Surge Protective Device



IEC/EN Category: Class I+II / Type 1+2

Standard	IEC/EN61643-11				
No. of Poles	1P, 2P, 3P, 4P, 1P+NPE, 3P+NPE				
Max. continuous operating a.c.voltage (Uc)	150V	275V	320V	385V	440V
Max. continuous operating a.c.voltage (N-PE)(Uc)	255V				
Lightning impulse current (10/350µs)(Iimp)	7kA				
Normal discharge current (8/20µs)(In)	25kA				
Maximum discharge current (8/20µs)(Imax)	50kA				
Voltage protection level (Up)	≤1.2kV	≤1.4kV	≤1.6kV	≤1.8kV	≤2.0kV
Voltage protection level 5kA (Up)	≤1.0kV	≤1.2kV	≤1.4kV	≤1.5kV	≤1.6kV
Voltage protection level (N-PE)(Up)	≤1.5kV				

EKU5-T1+T2-12

Surge Protective Device



IEC/EN Category: Class I+II / Type 1+2

Standard	IEC/EN61643-11			
No. of Poles	1P, 2P, 3P, 4P, 1P+NPE, 3P+NPE			
Max. continuous operating a.c.voltage (Uc)	150V	275V	320V	385V
Max. continuous operating a.c.voltage (N-PE)(Uc)	255V			
Lightning impulse current (10/350µs)(Iimp)	12.5kA			
Normal discharge current (8/20µs)(In)	30kA			
Maximum discharge current (8/20µs)(Imax)	60kA			
Voltage protection level (Up)	≤1.2kV	≤1.5kV	≤1.6kV	≤1.8kV
Voltage protection level 5kA (Up)	≤0.6kV	≤1.0kV	≤1.2kV	≤1.3kV
Voltage protection level (N-PE)(Up)	≤1.5kV			

EKU5-T2-20

Surge Protective Device



IEC/EN Category: Class II / Type 2

Standard	IEC/EN61643-11				
No. of Poles	1P, 2P, 3P, 4P, 1P+NPE, 3P+NPE				
Max. continuous operating a.c.voltage (Uc)	150V	275V	320V	385V	440V
Max. continuous operating a.c.voltage (N-PE)(Uc)	255V				
Norminal discharge current (8/20μs)(In)	10kA				
Maximum discharge current (8/20μs)(Imax)	20kA				
Voltage protection level (Up)	≤0.8kV	≤1.0kV	≤1.2kV	≤1.45kV	≤1.6kV
Voltage protection level 5kA (Up)	≤0.5kV	≤0.8kV	≤1.0kV	≤1.2kV	≤1.4kV
Voltage protection level (N-PE)(Up)	≤1.5kV				

EKU5-T2-40

Surge Protective Device



IEC/EN Category: Class II / Type 2

Standard	IEC/EN61643-11				
No. of Poles	1P, 2P, 3P, 4P, 1P+NPE, 3P+NPE				
Max. continuous operating a.c.voltage (Uc)	150V	275V	320V	385V	440V
Max. continuous operating a.c.voltage (N-PE)(Uc)	255V				
Norminal discharge current (8/20μs)(In)	20kA				
Maximum discharge current (8/20μs)(Imax)	40kA				
Voltage protection level (Up)	≤0.8kV	≤1.3kV	≤1.5kV	≤1.8kV	≤2.0kV
Voltage protection level 5kA (Up)	≤0.6kV	≤1.0kV	≤1.2kV	≤1.4kV	≤1.6kV
Voltage protection level (N-PE)(Up)	≤1.5kV				

EKU5-T2-40S

Surge Protective Device



IEC/EN Category: Class II / Type 2

Standard	IEC/EN61643-11
No. of Poles	2P, 1P+NPE
Max. continuous operating a.c.voltage (L-N)(Uc)	275V
Max. continuous operating a.c.voltage (N-PE)(Uc)	255V
Norminal discharge current (8/20μs)(In)	20kA
Maximum discharge current (8/20μs)(Imax)	40kA
Voltage protection level (L-N)(Up)	≤1.3kV
Voltage protection level 5kA (Up)	≤1.0kV
Voltage protection level (N-PE)(Up)	≤1.5kV

EKU6-T2-40S

Surge Protective Device



IEC/EN Category: Class II / Type 2

Standard	IEC/EN61643-11
No. of Poles	1P+NPE
Max. continuous operating a.c.voltage (L-N)(Uc)	275V
Max. continuous operating a.c.voltage (N-PE)(Uc)	255V
Norminal discharge current (8/20μs)(In)	20kA
Maximum discharge current (8/20μs)(Imax)	40kA
Voltage protection level (L-N)(Up)	≤1.5kV
Voltage protection level 5kA (Up)	≤1.0kV
Voltage protection level (N-PE)(Up)	≤1.5kV

EKU5-T2-40PV

Surge Protective Device



IEC/EN Category: Class II / Type 2

Standard		IEC/EN61643-31		
No. of Modules		2P(2Mods), 3P(3Mods)		
Max. continuous operating a.c.voltage (Ucpv)		600V	1000V	1500V
Nominal discharge current (8/20μs)(In)		20kA		
Maximum discharge current (8/20μs)(Imax)		40kA		
Voltage protection level DC+/DV-to PE (Up)	2Mods	≤2.6kV	≤4.0kV	-
	3Mods	-	≤4.0kV	≤5.2kV

EKU5-T1+T2-40PV

Surge Protective Device



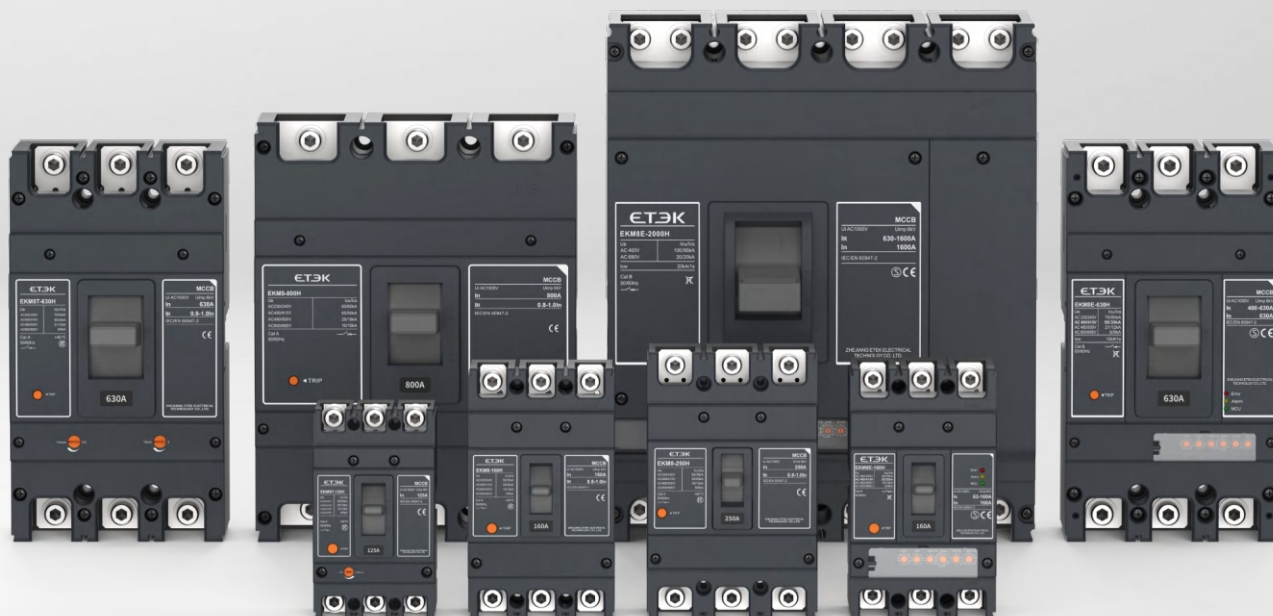
IEC/EN Category: Class I+II / Type 1+2

Standard		IEC/EN61643-31		
No. of Modules		3P(3Mods)		
Max. continuous operating a.c.voltage (Ucpv)		500V	1000V	1500V
Impulse discharge current (10/350 us)(Iimp)		6.25kA		
Total discharge current (10/350 us)(Iimp)		12.5kA		
Nominal discharge current (8/20μs)(In)		20kA		
Maximum discharge current (8/20μs)(Imax)		40kA		
Voltage protection level DC+/DV-to PE (Up)		2kV	4kV	5.2kV

Molded Case Circuit Breaker

Molded Case Circuit Breaker (MCCB) is a protective device that can stop the flow of current automatically when the current exceeds the trip setting. MCCBs are used in various applications where heavy current flows, such as industrial, commercial, and high-rise residential buildings.

ET&K Electric offers molded case circuit breakers of several types and sizes, including thermal magnetic fixed, thermal-magnetic adjustable and electronically adjustable. These circuit breakers are rated up to 2000A, providing flexibility for different use cases.



EKM8

Moulded Case Circuit Breaker

MCCB



Standard	IEC/EN60947-2					
Frame current (A)	125		160		250	
Model	EKM8-125S	EKM8-125H	EKM8-160S	EKM8-160H	EKM8-250S	EKM8-250H
Pole number	1, 2, 3, 4		2, 3, 4		3, 4	
Rated current (A)	10-125		63-160		100-250	
Rated voltage (V)	AC400V					
Rated insulation voltage (V)	AC1000V					
Short-circuit breaking capacity (KA)Icu/Ics	18/15	25/18	25/18	35/25	25/18	35/25
Electrical life	6000		3000			
Mechanical life	9000		7000			

Standard	IEC/EN60947-2					
Frame current (A)	400		630		1250	2000
Model	EKM8-400S	EKM8-400H	EKM8-630S	EKM8-630H	EKM8-1250S	EKM8-2000H
Pole number	3, 4					
Rated current (A)	250-400		250-630		500-1250	1250-2000
Rated voltage (V)	AC400V					
Rated insulation voltage (V)	AC1000V					
Short-circuit breaking capacity (KA) Icu/Ics	35/25	50/35	35/25	50/35	65/50	100/85
Electrical life	2000				1500	
Mechanical life	4000				4000	

EKM8T

Thermo-magnetic Double Adjustable Type MCCB



Standard	IEC/EN60947-2					
Frame current (A)	160		250		400	
Model	EKM8T-160S	EKM8T-160H	EKM8T-250S	EKM8T-250H	EKM8T-400S	EKM8T-400H
Pole number	3, 4					
Rated current (A)	20-160		100-250		200-400	
Rated voltage (V)	AC400V					
Rated insulation voltage (V)	AC1000V					
Short-circuit breaking capacity (KA)Icu/Ics	25/18	35/25	25/18	35/25	35/25	50/35
Electrical life	3000				2000	
Mechanical life	7000				4000	

Standard	IEC/EN60947-2				
Frame current (A)	630		1250		2000
Model	EKM8T-630S	EKM8T-630H	EKM8T-1250S	EKM8T-1250H	EKM8T-2000H
Pole number	3, 4				
Rated current (A)	400-630		630-1250		1250-2000
Rated voltage (V)	AC400V				
Rated insulation voltage (V)	AC1000V				
Short-circuit breaking capacity (KA) Icu/Ics	35/25	50/35	50/35	65/50	100/85
Electrical life	2000		1500		
Mechanical life	4000		4000		

EKM8E

Electronic Adjustable Type MCCB

MCCB

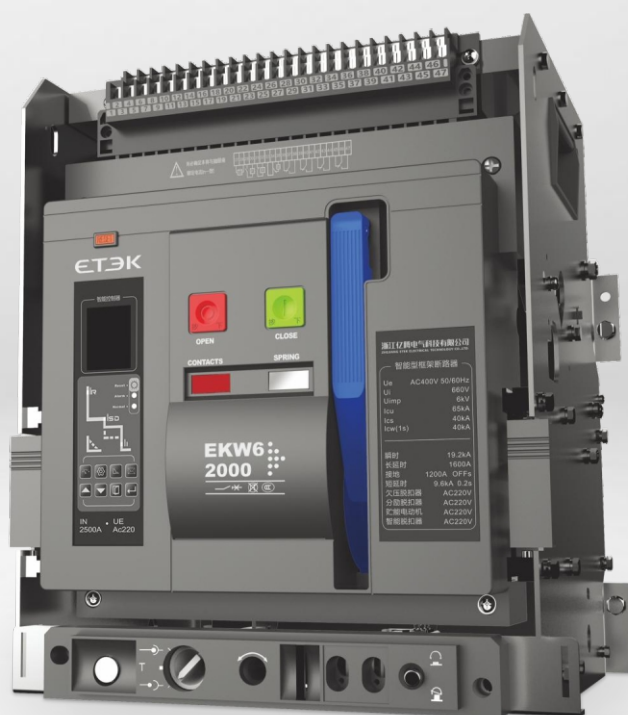


Standard	IEC/EN60947-2					
Frame current (A)	160	250	400	630	1250	2000
Model	EKM8E-160H	EKM8E-250H	EKM8E-400H	EKM8E-630H	EKM8E-1250H	EKM8E-2000H
Pole number	3, 4					
Rated current (A)	12-160	100-250	200-400	400-630	320-1250	1250-2000
Rated voltage (V)	AC400V					
Rated insulation voltage (V)	AC1000V					
Short-circuit breaking capacity (KA)Icu/Ics	35/25		50/35		65/50	100/85
Electrical life	1500		1000			
Mechanical life	7000		4000			

Air Circuit Breaker

Air Circuit Breaker (ACB) is a type of circuit breaker that utilizes air as the medium to extinguish the arc generated during a fault condition in an electrical circuit. It provides protection to electrical devices and circuits from damage caused by overcurrent or short circuit and is typically employed in low voltage applications below 1000V, commonly found in distribution panels.

At ETEK Electric, we offer EKW6 Series air circuit breakers with a current rating of up to 6300A, ensuring that you have access to high-quality electrical protection devices that meet your needs.



EKW6 ACB

Air Circuit Breaker

ACB



Model		EKW6-1600/ 1600G	EKW6-2000/ 2000G	EKW6-3200	EKW6-4000	EKW6-5000
Rated current of frame level Inm(A)		1600	2000	3200	4000	5000
Number of poles		3, 4P				
Rated current In(A)		200,400,630,800, 1000,1250,1600	400,630,800,1000, 1250,1600,2000	2000,2500,2900, 3200	3200,3600,4000	4000,5000,6300 (Capacityincrease)
Rated voltage Ue(V)		400, 690				
Insulation voltage Ui(V)		1000				
Rated frequency (Hz)		50/60				
Impulse withstand voltage Uimp(KV)		12				
Rated current of N-pole IN(A)		50%In/100%In				
Rated ultimated short Circuit breaking capacity Icu(kA)	AC400V	55/65	65/80	100	100	120
	AC690V	35/50	50	65	85	75
Rated short circuit breaking capacity Ics(kA)	AC400V	55/65	40/50	65	100	100
	AC690V	35/55	40	50	85	75
Rated short circuit making capacity Icm(kA)(Peak)/cosφ	AC400V	110/143	176/0.2	220/0.2	364	264/0.2
	AC690	73.5/105	105/0.25	143/0.2	165	187/0.2
Rated short time with stand current Icw(1s)	AC400V	42/50	40/50	65	100	85/100(MCR)
	AC690V	35/42	40	50	85	65/75(MCR)
Max total tripping time(ms) without time delay		8-12				
Closing time(ms)		Max 60				
Electrical life	AC400V	1000	500			
	AC690V	1000	500			
Mechanical life	Maintenance free	2500			2000	
	Maintenance required	5000	10000		8000	
Connection mode		Horizontal, Vertical				

Electrical Control Devices

ET&K Electric provides a variety of electrical control products, such as AC contactors, thermal overload relays, motor protection circuit breakers (MPCB), DOL starter, etc. These products can effectively protect motors and electrical equipment from overload, short circuits, and other electrical faults.

ET&K Electric are committed to providing customers with high-quality electrical control products to ensure the stable operation of our customers' equipment.



EKC2

AC Contactor



Standard		IEC/EN60947-4-1, IEC/EN60947-5-1					
Model No.		EKC2-09	EKC2-12	EKC2-18	EKC2-25	EKC2-32	EKC2-38
Rated Conventional Heating Current	Ith (A)	20	20	32	40	50	50
Rated Voltage	Ui (V)	690					
Rated Operation Current Ue=380/415V	AC-3 Ie (A)	9	12	18	25	32	38
	AC-4 Ie (A)	3.5	5	7.7	8.5	12	14
Power Controlled 3ph cage Motor AC-3	220/240V (KW)	2.2	3	4	5.5	7.5	8.9
	380/415V (KW)	4	5.5	7.5	11	15	18.5
	660/690V (KW)	5.5	7.5	10	15	18.5	18.5
Electrial life (x10 ³ operations)	AC-3	1100				900	
	AC-4	220					
Mechanical life (x10 ⁶ operations)		12			10		
Main circuit		3P					
Auxiliary circuit Cat.: AC-15, Ue=415V, Ie=0.95A, Ith=10A		1NO+1NC					

Standard		IEC/EN60947-4-1, IEC/EN60947-5-1				
Model No.		EKC2-40	EKC2-50	EKC2-65	EKC2-80	EKC2-95
Rated Conventional Heating Current	Ith (A)	60	80	80	100	125
Rated Voltage	Ui (V)	690				
Rated Operation Current Ue=380/415V	AC-3 Ie (A)	40	50	65	80	95
	AC-4 Ie (A)	18.5	24	28	37	44
Power Controlled 3ph cage Motor AC-3	220/240V (KW)	11	15	18.5	22	25
	380/415V (KW)	18.5	22	30	37	45
	660/690V (KW)	30	33	37	45	45
Electrial life (x10 ³ operations)	AC-3	900			650	
	AC-4	170			110	
Mechanical life (x10 ⁶ operations)		9			6.5	
Main circuit		3P				
Auxiliary circuit Cat.:AC-15,Ue=415V, Ie=0.95A, Ith=10A		1NO+1NC				

EKR2

Thermal Overload Relay



Standard	IEC60947-4-1
Approvals	CB, CE, UKCA
Tripping class	10A
Adjusting range of Rated current	0.1-93
Rated insulation voltage Ui	690VAC
Rated impulse withstand voltage Uimp	6kV
Signalling	Trip indicator
Tightening torque	0.8 N.m
Degree of protection	IP20
Ambient air temperature	-5°C to +40°C, max. 95%humidity
Storage temperature	-40°C to +75°C
Mounting	Directly under the contactor
No. of contacts	1NO+1NC

EKMS2

Motor Protection Circuit Breaker



Standard	IEC60947-2, IEC60947-4-1
Handle type	Rocker, Rotary
Frame size rated current	32A, 80A
Approvals	CE
Utilization Category	IEC60947-2: A IEC60947-4-1: AC-3
Rated insulation voltage Ui	690V
Rated operational voltage Ue	230/240, 400/415, 440, 500, 660/690V
Rated impulse withstand voltage Uimp	8kA
Electrical life in AC-3 (times)	10000
Mechanical life (times)	20000
Tightening torque (N.m)	1.7
Degree of Protection	IP 20; IP65 with enclosure
Ambient air temperature	- 5°C to +40°C, max. 95% humidity
Storage temperature	-40°C to +70°C
Maximum operating altitude (meters)	≤2000

EKQ1 & EKQ2

Direct On Line (DOL) Starter



Model	EKQ1	EKQ2
Standard	IEC60947-4-1	
Electric rating	9,18,25,32,40,50,65,80,95A	
Rated operational voltage Ue	660V	
Rated insulation voltage Ui	690V	
Rated frequency	50/60Hz	
Rated impulse with stand voltage Uimp	8kV	
Control button	Green Start button; Red Stop/ Reset button	
Enclosure	EKQ1-09/18/25/32 Frame ABS upper cover, Metal base, IP55	EKQ2-09/18/25/32 Frame ABS insulated, IP55
	EKQ1/EKQ2-40/50/80/95 Frame Metal, IP40	
Electrial life ($\times 10^5$ times)	5	
Mechanical life ($\times 10^5$ times)	10	
Matched AC contactor type	EKC1 Series	EKC2 Series
Matched Thermal relay type	EKR2 Series	
Ambient air temperature (°C)	-5°C to +40°C, max. 95%humidity	
Storage temperature (°C)	-40°C to +75°C	
Max operating altitude (meters)	$\leq 2000\text{m}$	

Notes

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