

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 built our own low-voltage electrical testing center, and most of the testing items can meet the requirements of international IEC standards. The company has obtained ISO9001, ISO14001, and ISO45001 system certifications as well as products have obtained international CB, CE, INMETRO, TUV, VDE, RoHS and other quality certificates.



Wenzhou Factory



Wuhu Factory

CERTIFICATE



EKM2-63M



EKM12-63X



EKM12-63H

MCB EKM2-63M 3kA

ETЭК®

Mini Circuit Breaker

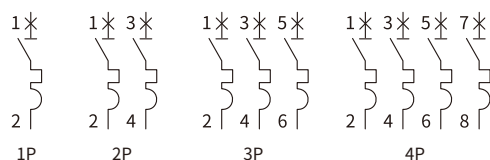
Standard_IEC60898-1



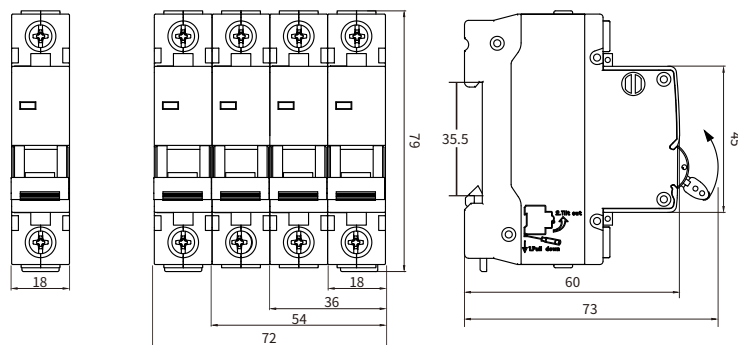
Technical Data

Standard	IEC/EN 60898-1
Protection	Overcurrent and short circuit
Type of trip	Thermo-magnetic
No. of poles	1P,2P,3P,4P
Rated voltage (Ue)	240/415V~
Rated currents (In)	1,2,3,4,5,6,8,10,13,16,20,25,32,40,50,63A
Rated frequency	50/60Hz
Rated short-circuit capacity (Icn)	3kA
Rated impulse withstand voltage (Uimp) (1.2/50μs)	4kV
Dielectric test voltage	2kV (50/60Hz, 1 min.)
Thermal tripping characteristics	1.13 x In No tripping within an hour; 1.45 x In Tripping within an hour
Instantaneous tripping characteristics	B:(3-5) x In, C:(5-10) x In, D:(10-20) x In
Electrical life	4,000 Cycles
Mechanical life	10,000 Cycles
Contact position indicator	green OFF / red ON
Protection degree	IP20
Ambient temperature	-5°C to +40°C Max. 95% humidity
Terminal connection type	Cable/Pin-type busbar
Max. terminal size for cable	25mm ²
Max. tightening torque	2.5N.m
Installation	Mounting on 35mm DIN rail
Incoming method	Bi-Directional

Circuit Diagram



Dimension(mm)



MCB EKM12-63X 6kA

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Mini Circuit Breaker

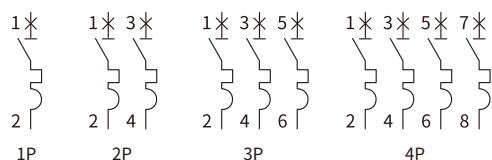
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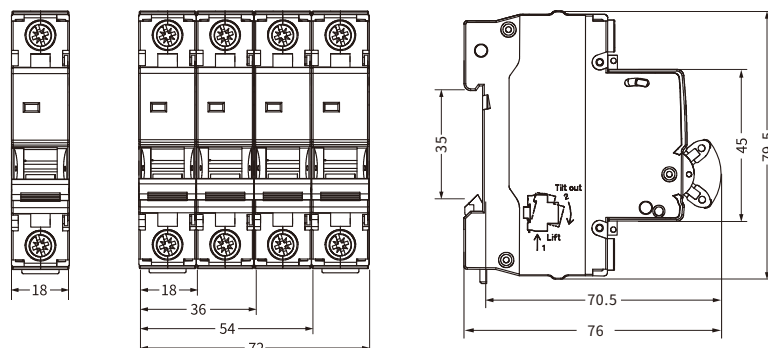
Technical Data

Standard	IEC/EN 60898-1
Protection	Overcurrent and short circuit
Type of trip	Thermo-magnetic
No. of poles	1P,2P,3P,4P
Rated voltage (Ue)	240/415V~
Rated currents (In)	1,2,3,4,5,6,8,10,13,16,20,25,32,40,50,63A
Rated frequency	50/60Hz
Rated short-circuit capacity (Icn)	6kA
Rated impulse withstand voltage (Uimp) (1.2/50μs)	4kV
Dielectric test voltage	2kV (50/60Hz, 1 min.)
Thermal tripping characteristics	1.13 x In No tripping within an hour; 1.45 x In Tripping within an hour
Instantaneous tripping characteristics	B:(3-5) x In, C:(5-10) x In, D:(10-20) x In
Electrical life	4,000 Cycles
Mechanical life	10,000 Cycles
Contact position indicator	green OFF / red ON
Protection degree	IP20
Ambient temperature	-5°C to +40°C, Max.95% humidity
Terminal connection type	Cable/Pin-type busbar
Max. terminal size for cable	25mm ²
Max. tightening torque	2.5N.m
Installation	Mounting on 35mm DIN rail
Incoming method	Bi-Directional

Circuit Diagram



Dimension(mm)



MCB EKM12-63H 10kA

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Mini Circuit Breaker

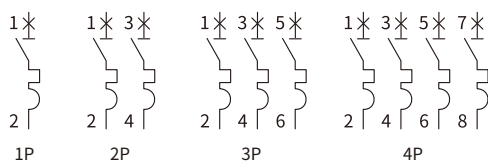
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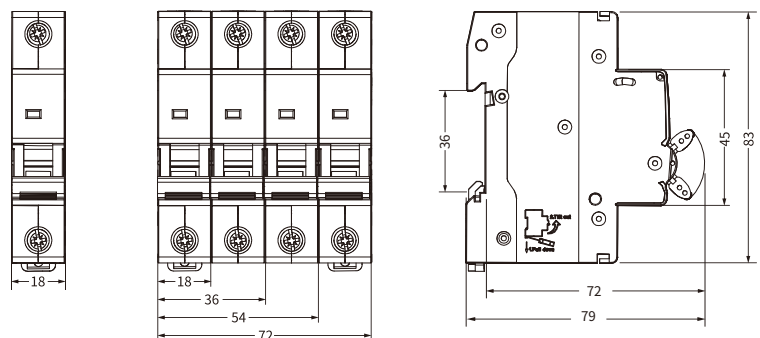
Technical Data

Standard	IEC/EN 60898-1
Protection	Overcurrent and short circuit
Type of trip	Thermo-magnetic
No. of poles	1P,2P,3P,4P
Rated voltage (Ue)	240/415V~
Rated currents (In)	1,2,3,4,5,6,8,10,13,16,20,25,32,40,50,63A
Rated frequency	50/60Hz
Rated short-circuit capacity (Icn)	10kA
Energy limiting class	3
Rated impulse withstand voltage (Uimp) (1.2/50μs)	4kV
Dielectric test voltage	2kV (50/60Hz, 1 min.)
Thermal tripping characteristics	1.13 x In No tripping within an hour; 1.45 x In Tripping within an hour
Instantaneous tripping characteristics	B:(3-5) x In, C:(5-10) x In, D:(10-20) x In
Electrical life	4,000 Cycles
Mechanical life	10,000 Cycles
Contact position indicator	green OFF / red ON
Protection degree	IP20
Ambient temperature	-5°C to +40°C, Max.95% humidity
Terminal connection type	Cable/Pin-type busbar/Fork-type busbar
Max. terminal size for cable	25mm ²
Max. tightening torque	2.5N.m
Installation	Mounting on 35mm DIN rail
Incoming method	Bi-Directional

Circuit Diagram



Dimension(mm)



MCB EKM12-125 6kA

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Mini Circuit Breaker

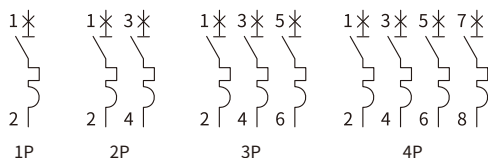
Standard IEC60898-1
IEC60947-2



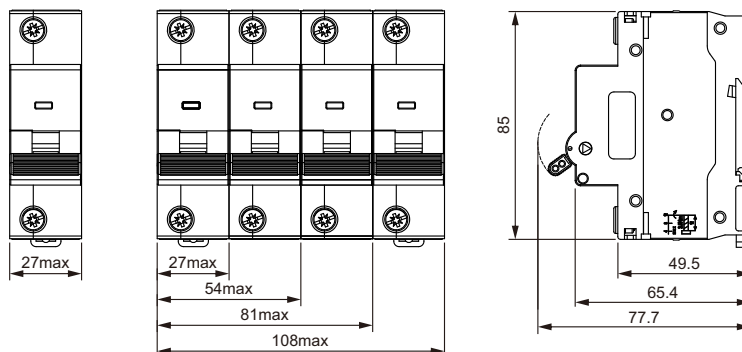
Technical Data

Standard	IEC/EN 60898-1	IEC/EN 60947-2
Protection	Overcurrent and short circuit	
Type of trip	Thermo-magnetic	
No. of poles	1P,2P,3P,4P	
Rated voltage (Ue)	240/415V~	
Rated currents (In)	63,80,100,125A	
Rated frequency	50/60Hz	
Rated short-circuit capacity (Icn)	6kA	
Rated impulse withstand voltage (1.2/50) (Uimp)	4kV	
Dielectric test voltage	2kV (50/60Hz, 1 min.)	
Thermal release characteristic	(1.13-1.45) x In	(1.05-1.30) x In
Instantaneous tripping characteristics	C:(5-10) x In, D:(10-20) x In	(8-12) x In
Electrical life	4,000 Cycles	
Mechanical life	10,000 Cycles	
Contact position indicator	green OFF / red ON	
Protection degree	IP20	
Ambient temperature	-5°C to +40°C, Max.95% humidity	
Terminal connection type	Cable/Pin-type busbar	
Max.terminal size for cable	50mm ²	
Max.tightening torque	3.5N.m	
Installation	Mounting on 35mm DIN rail	
Incoming method	Bi-Directional	

Circuit Diagram



Dimension(mm)

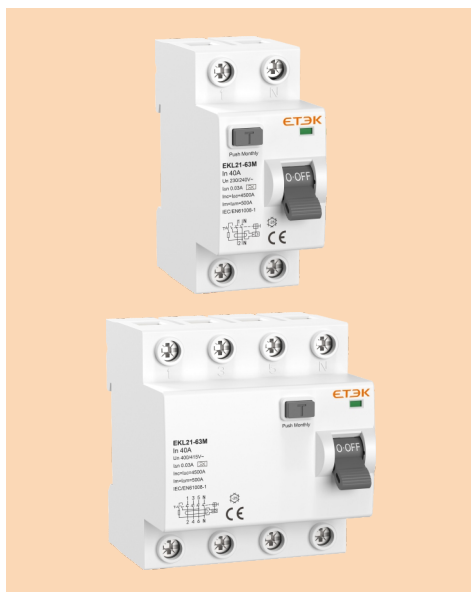


RCCB EKL21-63M 4.5/6kA

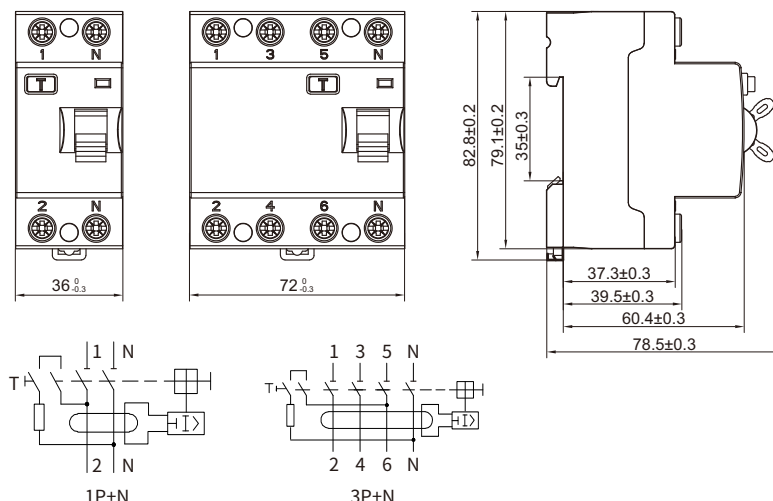
ETEK®

Small Size Residual Current Circuit Breaker

Standard_IEC61008-1



Circuit Diagram and Dimension(mm)



Technical Data

Standard	IEC/EN 61008-1
Protection	Ground fault
Type of trip	Electro-magnetic
Residual current type	AC,A,G,S
No. of poles	2P(1P+N), 4P(3P+N)
Rated voltage (Ue)	1P+N: 230/240V~, 3P+N:400/415V~
Rated currents (In)	16,25,32,40,63A
Rated sensitivity currents (IΔn)	10,30,100,300mA
Residual current off-time under (IΔn)	≤ 0.1s
Rated residual making and breaking capacity (IΔm)	500A(In≤50A), 10In(In>50A)
Rated frequency	50/60Hz
Rated conditional short-circuit current (Inc)	4.5kA/6kA
SCPD fuse	4500 6000
Rated impulse withstand voltage (Uimp) (1.2/50μs)	4kV
Dielectric test voltage	2.5kV (50/60Hz, 1 min.)
Electrical life	2,000 Cycles
Mechanical life	4,000 Cycles
Contact position indicator	green OFF / red ON
Protection degree	IP20
Ambient temperature	-25°C to +40°C, Max.95% humidity
Terminal connection type	Cable/Pin-type busbar
Max. terminal size for cable	16mm ²
Max. tightening torque	2N.m
Installation	Mounting on 35mm DIN rail
Incoming method	Bi-Directional
Matching MCB	EKM2-63M
Operating mechanism	Plastic structure

RCCB EKL1-80(H)

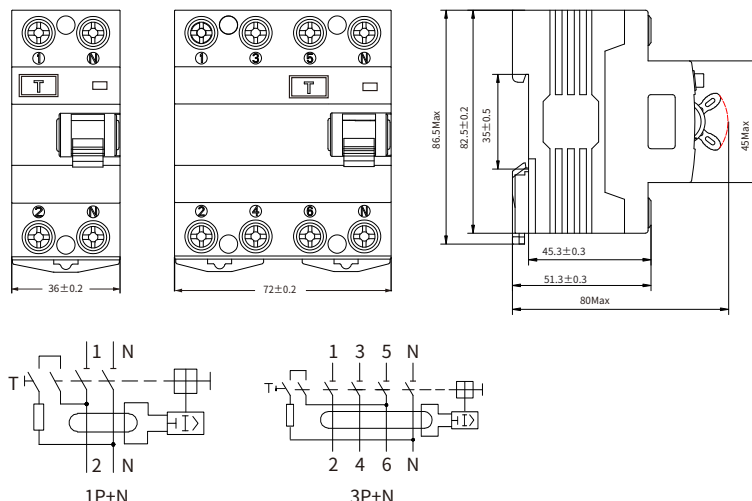
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Residual Current Circuit Breaker

Standard_IEC61008-1



Overall and Installation Dimension(mm)



Technical Data

Standard	IEC/EN 61008-1
Protection	Ground fault
Type of trip	Electro-magnetic
Residual current type	AC,A,G,S
No. of poles	2P(1P+N), 4P(3P+N)
Rated voltage (Ue)	1P+N: 230/240V~, 3P+N:400/415V~
Rated currents (In)	25,40,63,80A
Rated sensitivity currents (I _{Δn})	10,30,100,300mA
Residual current off-time under (I _{Δn})	≤ 0.1s
Rated residual making and breaking capacity (I _{Δm})	500A(In≤50A), 10In(In>50A)
Rated frequency	50/60Hz
Rated conditional short-circuit current (Inc)	EKL1-80: 6kA, EKL1-80H: 10kA
SCPD fuse	6000 10000
Rated impulse withstand voltage (U _{imp}) (1.2/50μs)	4kV
Dielectric test voltage	2.5kV (50/60Hz, 1 min.)
Electrical life	2,000 Cycles
Mechanical life	4,000 Cycles
Contact position indicator	green OFF / red ON
Protection degree	IP20
Ambient temperature	-25°C to +40°C, Max.95% humidity
Terminal connection type	Cable/Pin-type busbar/Fork-type busbar
Max. terminal size for cable	25mm ²
Max. tightening torque	2.5N.m
Installation	Mounting on 35mm DIN rail
Incoming method	Bi-Directional

RCCB EKL1-125(H)

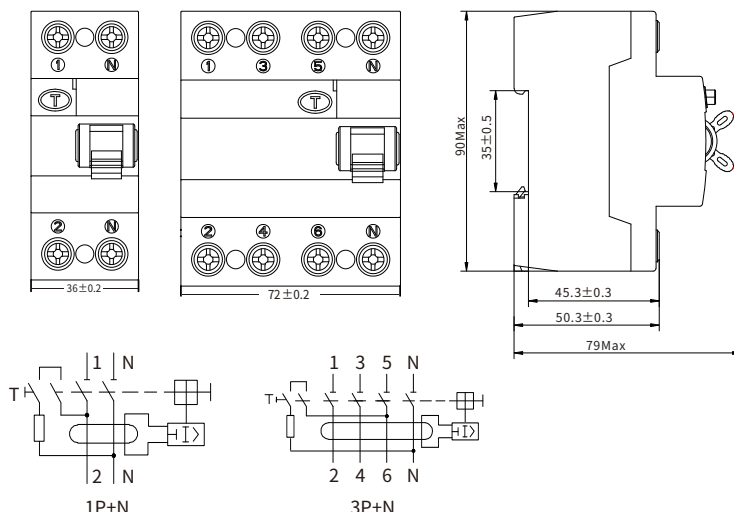
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Residual Current Circuit Breaker

Standard_IEC61008-1



Overall and Installation Dimension(mm)



Technical Data

Standard	IEC/EN 61008-1
Protection	Ground fault
Type of trip	Electro-magnetic
Residual current type	AC,A,G,S
No. of poles	2P(1P+N), 4P(3P+N) , N Pole on right
Rated voltage (Ue)	1P+N: 230/240V~, 3P+N: 400/415V~
Rated currents (In)	80,100,125A
Rated sensitivity currents (IΔn)	30,100,300mA
Residual current off-time under (IΔn)	≤ 0.1s
Rated residual making and breaking capacity (IΔm)	10In (In>50A)
Rated frequency	50/60Hz
Rated conditional short-circuit current (Inc)	EKL1-125: 6kA, EKL1-125H: 10kA
SCPD fuse	6000 10000
Rated impulse withstand voltage (Uimp) (1.2/50μs)	4kV
Dielectric test voltage	2kV (50/60Hz, 1 min.)
Electrical life	2,000 Cycles
Mechanical life	4,000 Cycles
Contact position indicator	green OFF / red ON
Protection degree	IP20
Ambient temperature	-25°C to +40°C, Max.95% humidity
Terminal connection type	Cable/Pin-type busbar/Fork-type busbar
Max. terminal size for cable	50mm ²
Max. tightening torque	2.5N.m
Installation	Mounting on 35mm DIN rail
Incoming method	Bi-Directional