

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.





CERTIFICATE







EKM2-63M EKM12-63X EKM12-63H



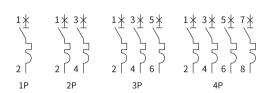
Mini Circuit Breaker ----- Standard_IEC60898-1

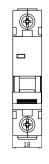


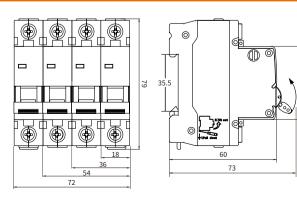
Technical Data

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	25mm²
Max. tightening torque	2.5N.m
Installation	Mounting on 35mm DIN rail
Incoming method	Bi-Directional

Circuit Diagram









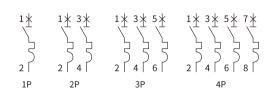
Mini Circuit Breaker ----- Standard_IEC60898-1



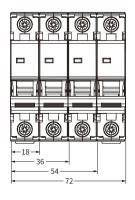
Technical Data

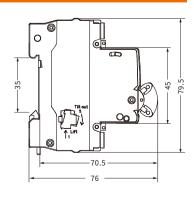
Standard	IEC/EN 60898-1
Protection	Overcurrent and short circuit
Type of trip	Thermo-magnetic
No. of poles	1P,2P,3P,4P
Rated voltage (Ue)	240/415V~
Rated currents (In)	1,2,3,4,5,6,8,10,13,16,20,25,32,40,50,63A
Rated frequency	50/60Hz
Rated short-circuit capacity (Icn)	6kA
Rated impulse withstand voltage (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











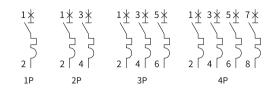
Mini Circuit Breaker ----- Standard_IEC60898-1

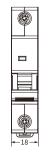


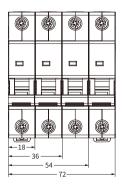
Technical Data

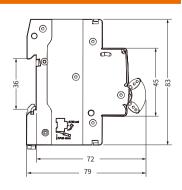
Standard	IEC/EN 60898-1
Protection	Overcurrent and short circuit
Type of trip	Thermo-magnetic
No. of poles	1P,2P,3P,4P
Rated voltage (Ue)	240/415V~
Rated currents (In)	1,2,3,4,5,6,8,10,13,16,20,25,32,40,50,63A
Rated frequency	50/60Hz
Rated short-circuit capacity (Icn)	10kA
Energy limiting class	3
Rated impulse withstand voltage (Uimp) (1.2/50μs)	4kV
Dielectric test voltage	2kV (50/60Hz, 1 min.)
Thermal tripping characteristics	$1.13\mathrm{x}$ In No tripping within an hour; $1.45\mathrm{x}$ 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









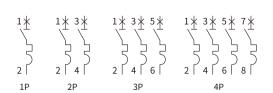


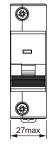


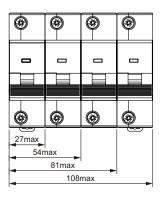
Technical Data

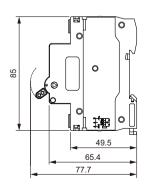
Standard	IEC/EN 60898-1	IEC/EN 60947-2
Protection	Overcurrent and short circuit	
Type of trip	Thermo-magnetic	
No. of poles	1P,2P,3P,4P	
Rated voltage (Ue)	240/415V~	
Rated currents (In)	63,80,100,125A	
Rated frequency	50/60Hz	
Rated short-circuit capacity (Icn)	6kA	
Rated impulse withstand voltage (1.2/50) (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







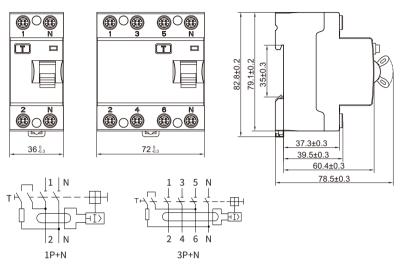




Small Size Residual Current Circuit Breaker ----- Standard_IEC61008-1



Circuit Diagram and Dimension(mm)



Technical Data

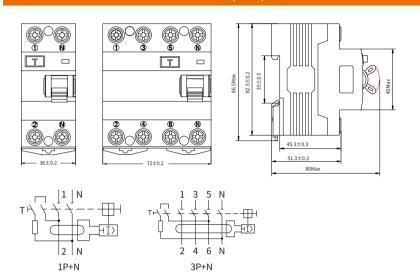
Standard	IEC/EN 61008-1
Protection	Ground fault
Type of trip	Electro-magnetic
Residual current type	AC,A,G,S
No. of poles	• • •
	2P(1P+N), 4P(3P+N)
Rated voltage (Ue)	1P+N: 230/240V~, 3P+N:400/415V~
Rated currents (In)	16,25,32,40,63A
Rated sensitivity currents (Ian)	10,30,100,300mA
Residual current off-time under (I∆n)	≤ 0.1s
Rated residual making and breaking capacity (I _Δ m)	500A(In≤50A), 10In(In>50A)
Rated frequency	50/60Hz
Rated conditional short-circuit current (Inc)	4.5kA/6kA
SCPD fuse	4500
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
1 2 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	



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△n)	10,30,100,300mA
Residual current off-time under (I△n)	≤ 0.1s
Rated residual making and breaking capacity (I△m)	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 (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/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

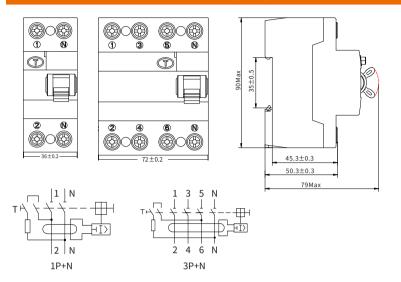
06 www.etek-china.com



Residual Current Circuit Breaker ----- Standard_IEC61008-1



Overall and Installation Dimension(mm)



Technical Data

Protection 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) Rated sensitivity currents (I∆n) Residual current off-time under (I∆n) Residual current off-time under (I∆n) Rated residual making and breaking capacity (I∆m) Rated frequency Sol/60Hz Rated conditional short-circuit current (Inc) EKL1-125: 6kA, EKL1-125H: 10kA SCPD fuse Rated impulse withstand voltage (Uimp) (1.2/50µs) Pielectric test voltage Electrical life 2,000 Cycles Mechanical life Contact position indicator Protection degree Ambient temperature Protection degree Ambient temperature -25°C to +40°C, Max.95% humidity Terminal connection type Max. terminal size for cable Max. tightening torque Installation Incoming method Bi-Directional	Standard	IEC/EN 61008-1
Residual current type No. of poles 2P(1P+N), 4P(3P+N), N Pole on right Rated voltage (Ue) Rated currents (In) Rated sensitivity currents (Ian) Residual current off-time under (Ian) Rated residual making and breaking capacity (Iam) Rated residual making and breaking capacity (Iam) Rated frequency Rated conditional short-circuit current (Inc) SCPD fuse Rated impulse withstand voltage (Uimp) (1.2/50μs) Dielectric test voltage Electrical life 2,000 Cycles Mechanical life 4,000 Cycles Contact position indicator Protection degree Ambient temperature -25°C to +40°C, Max.95% humidity Terminal connection type Max. terminal size for cable Max. tightening torque Installation Mounting on 35mm DIN rail	Protection	Ground fault
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 (Ian) 30,100,300mA Residual current off-time under (Ian) ≤ 0.1s Rated residual making and breaking capacity (Iam) 10In (In>50A) Rated frequency 50/60Hz Rated conditional short-circuit current (Inc) EKL1-125: 6kA, EKL1-125H: 10kA SCPD fuse □000 □ □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 50mm² Max. tightening torque 2.5N.m Installation Mounting on 35mm DIN rail	Type of trip	Electro-magnetic
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 50mm² Max. tightening torque 2.5N.m Installation Mounting on 35mm DIN rail	Residual current type	AC,A,G,S
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 50mm² Max. tightening torque 2.5N.m Installation Mounting on 35mm DIN rail	No. of poles	2P(1P+N), 4P(3P+N) , N Pole on right
Rated sensitivity currents (IΔn) Residual current off-time under (IΔn) Rated residual making and breaking capacity (IΔm) Rated frequency Rated conditional short-circuit current (Inc) SCPD fuse Rated impulse withstand voltage (Uimp) (1.2/50μs) Dielectric test voltage Electrical life Mechanical life Contact position indicator Protection degree Ambient temperature Terminal connection type Max. terminal size for cable Max. tightening torque Indicator Rated inpulse withstand voltage (Uimp) (1.2/50μs) AlkV EKL1-125: 6kA, EKL1-125H: 10kA EKL1-125H: 10kA EKL1-125: 6kA, EKL1-125H: 10kA EKL1-125H:	Rated voltage (Ue)	1P+N: 230/240V~, 3P+N: 400/415V~
Residual current off-time under (I∆n) ≤ 0.1s Rated residual making and breaking capacity (I∆m) 10In (In>50A) Rated frequency 50/60Hz Rated conditional short-circuit current (Inc) EKL1-125: 6kA, EKL1-125H: 10kA SCPD fuse □ 0000 □ 100000 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 50mm² Max. tightening torque 2.5N.m Installation Mounting on 35mm DIN rail	Rated currents (In)	80,100,125A
Rated residual making and breaking capacity (IΔm) Rated frequency Rated conditional short-circuit current (Inc) SCPD fuse Rated impulse withstand voltage (Uimp) (1.2/50μs) Dielectric test voltage Electrical life Δ,000 Cycles Mechanical life Contact position indicator Protection degree Ambient temperature Terminal connection type Max. terminal size for cable Max. tightening torque Installation 10In (In>50A) 10In (In) 10In (In>50A) 10In (In) 10In (In	Rated sensitivity currents (I△n)	30,100,300mA
Rated frequency50/60HzRated conditional short-circuit current (Inc)EKL1-125: 6kA, EKL1-125H: 10kASCPD fuse□ 6000Rated impulse withstand voltage (Uimp) (1.2/50μs)4kVDielectric test voltage2kV (50/60Hz, 1 min.)Electrical life2,000 CyclesMechanical life4,000 CyclesContact position indicatorgreen OFF / red ONProtection degreeIP20Ambient temperature-25°C to +40°C, Max.95% humidityTerminal connection typeCable/Pin-type busbar/Fork-type busbarMax. terminal size for cable50mm²Max. tightening torque2.5N.mInstallationMounting on 35mm DIN rail	Residual current off-time under (I△n)	≤ 0.1s
Rated conditional short-circuit current (Inc) SCPD fuse Rated impulse withstand voltage (Uimp) (1.2/50µs) Dielectric test voltage Electrical life Mechanical life Contact position indicator Protection degree Ambient temperature Terminal connection type Max. terminal size for cable Max. tightening torque Installation EKL1-125: 6kA, EKL1-125H: 10kA EKL1-125: 6kA, EKL1	Rated residual making and breaking capacity (I△m)	10In (In>50A)
Rated impulse withstand voltage (Uimp) (1.2/50μs) Pielectric test voltage Electrical life Mechanical life Contact position indicator Protection degree Ambient temperature Terminal connection type Max. terminal size for cable Max. tightening torque Installation Mounting on 35mm DIN rail	Rated frequency	50/60Hz
Rated impulse withstand voltage (Uimp) (1.2/50µs) Dielectric test voltage 2kV (50/60Hz, 1 min.) Electrical life 2,000 Cycles Mechanical life 4,000 Cycles Contact position indicator 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 Max. tightening torque Installation Mounting on 35mm DIN rail	Rated conditional short-circuit current (Inc)	EKL1-125: 6kA, EKL1-125H: 10kA
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 50mm² Max. tightening torque 2.5N.m Installation Mounting on 35mm DIN rail	SCPD fuse	<u>─</u> 6000 <u></u> 10000
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 50mm² Max. tightening torque 2.5N.m Installation Mounting on 35mm DIN rail	Rated impulse withstand voltage (Uimp) (1.2/50μs)	4kV
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 50mm² Max. tightening torque 2.5N.m Installation Mounting on 35mm DIN rail	Dielectric test voltage	2kV (50/60Hz, 1 min.)
Contact position indicator Protection degree IP20 Ambient temperature Terminal connection type Max. terminal size for cable Max. tightening torque Installation Green OFF / red ON IP20 Cable/Pin-type busbar/Fork-type busbar 50mm² 2.5N.m Mounting on 35mm DIN rail	Electrical life	2,000 Cycles
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 50mm² Max. tightening torque 2.5N.m Installation Mounting on 35mm DIN rail	Mechanical life	4,000 Cycles
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 50mm² Max. tightening torque 2.5N.m Installation Mounting on 35mm DIN rail	Contact position indicator	green OFF / red ON
Terminal connection type Max. terminal size for cable Max. tightening torque Installation Cable/Pin-type busbar/Fork-type busbar 50mm² 2.5N.m Mounting on 35mm DIN rail	Protection degree	IP20
Max. terminal size for cable50mm²Max. tightening torque2.5N.mInstallationMounting on 35mm DIN rail	Ambient temperature	-25°C to +40°C, Max.95% humidity
Max. tightening torque 2.5N.m Installation Mounting on 35mm DIN rail	Terminal connection type	Cable/Pin-type busbar/Fork-type busbar
Installation Mounting on 35mm DIN rail	Max. terminal size for cable	50mm ²
·	Max. tightening torque	2.5N.m
Incoming method Bi-Directional	Installation	Mounting on 35mm DIN rail
	Incoming method	Bi-Directional

07