⚠ Reserve the right to change the parameters without prior notice.

SAFE GREEN SMART

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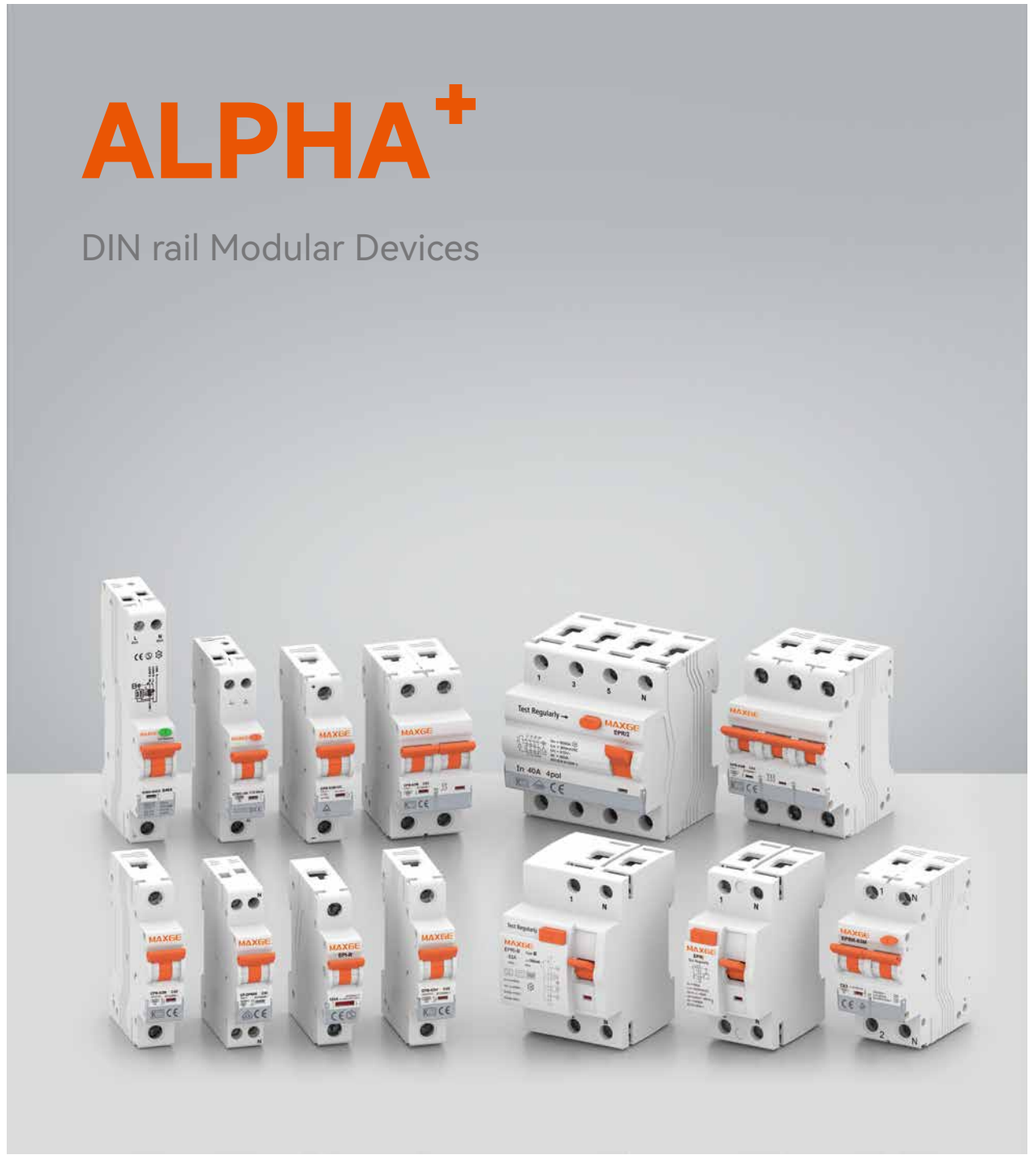
MAXGE

ALPHA+

DIN rail Modular Devices



Committed to becoming a world-class manufacturer of intelligent electric

https://www.maxge.com

COMPANY PROFILE

MAXGE Electric Technology Co., Ltd was founded in 2006 with a registered capital of 50 million RMB. Its headquarter is located in Deqing County, Huzhou City, Zhejiang Province. It is a large-scale comprehensive high-tech enterprise integrating design, research and development, manufacturing, marketing and service.

Since its establishment, MAXGE has been professionally oriented and committed to the design and manufacturing of a series of products such as low voltage circuit breakers & controlgear for domestic, industrial protection and new energy power distribution, in order to meet user needs and provide high-quality solutions.

At present, MAXGE has won many honors such as National High-tech Enterprise, National Specialized and Sophisticated "Little Giant", Zhejiang Enterprise Technology Center, Zhejiang High-level Enterprise R&D Center, Zhejiang Export Brand and Zhejiang Digital Workshop.

In the process of production and operation,we have obtained ISO9001, ISO14001 and ISO45001 and obtained SGS certifications, and the testing center has won the national CNAS laboratory certification. The products have obtained CE, CB, VDE, KEMA, TUV, INTERTEK, BV, ASTA, EAC, INMETRO certifications with reliable quality, and are exported to more than 60 countries and regions such as the European Union, the South America, Middle East, Africa, and Southeast Asia. We have multiple branches in the United Kingdom, Spain, Netherlands and Hong Kong, and we are dedicated to providing high-quality products and services to global customers.

2006

The company was established in 2006

60+

We provide products to over 60 countries around the world

Currently MAXGE has a R&D team of more than 100 personnel and nearly 1,000 employees, equipped with state of the art automatic production lines, CNAS affiliated laboratories and testing centers. MAXGE has obtained more than 100 invention and utility model patents, 10 software copyright, and participated in the formulation of national, industry and group standards.

There are over 133,000 square meters of Modern Intelligent Manufacturing Bases in Zhejiang Hangzhou, Huzhou and Anhui Wuhu.

The Huzhou factory covers an area of over 33,000 square meters, with a total investment of 500 million RMB. At present, there are 42 production lines in the automation workshops, among which the automatic assembly production line, semi-automatic assembly production line and automatic inspection line cover more than 90%.

DEVELOPMENT HISTORY

(2006 to 2010)
Development

1.0

Brand Establishment

Wenzhou Maxge Electric Technology Co, Ltd. was established, and focused on circuit breakers manufacturing.

(2011 to 2015)
Development

2.0

Thrive Period

Moved to Deqing County, entered into a new stage and focused on the design, development and production of low-voltage Circuit Breakers.

(2016 to 2020)
Development

3.0

4T+5I

- Standardization
- Automation
- Digitalization
- Intelligentization
- Products Innovation
- Technology Innovation
- Management Innovation
- Marketing Innovation
- Brand Innovation

(2021 to 2025)
Development

4.0

Comprehensive Transformation

The production capacity of Wuhu greenfield factory can reach 3 times bigger after construction. Not only focus on foreign markets, but also prepared for the domestic market.

(2026 to 2030)
Development

5.0

Green and Smart

MAXGE provides users with more diversified, intelligent and creative solutions, and promote the whole society towards the goal of green, intelligent and sustainable development.

1.0 2.0 3.0 4.0 5.0

CORPORATE CULTURE

Brand Interpretation

- Chinese Name: Mei Gao
- Mei: Perfection in Excellence
- Gao: Virtue in Action
- English Name: MAXGE
- MAX: Maximum
- GE: Global Electric

CULTURE

Core values
Customer Focused
Altruism & Win-win
Truth-seeking & Innovation

Mission
Making Electricity Safe Green Smart

Vision
SHORT-TERM VISION :
Making the best quality & high cost performance circuit breaker in China

LONG-TERM VISION :
Committed to becoming a world-class manufacturer of intelligent electric

Lotus

The Heart of Altruism
Remain true to the original aspiration
Keep the mission firmly in mind
Link the hearts tightly
Be upright and integrity

Bodhi Tree

The Tree of Wisdom
“Stay Hungry
Stay Foolish”
Be wise and enlightened
Self-growth and self-motivated

Wukong

The Spirit of Struggle
Keep going, never give up
Strive continuously to strengthen oneself
Be loyal and trustworthy
Have ample virtue and accommodate all things

HONORARY QUALIFICATION

- National High-tech Enterprise
- National Standard Setting Enterprise
- Provincial Export Brand
- Provincial Enterprise Technology Center
- National Specialized and Sophisticated "Little Giant"
- Provincial High-tech Enterprise R&D Center
- Provincial Specialized and Sophisticated SMEs
- Provincial Credit Management Demonstration Enterprise
- Provincial Intellectual Property Demonstration Enterprise
- Made in Zhejiang Group Standard Leading Enterprise
- Provincial new generation of information technology and manufacturing integrated development pilot enterprise

PATENT CERTIFICATE

MAXGE has obtained more than **100** invention and utility model patents

SCALE CONFIGURATION

01 Mold & Tooling Workshop

Equipped with made in Switzerland GF AgieCharmilles, Japan Sodick wire cutting machine & EDM machine and Vertical milling CNC processing area.At present, it has achieved independent design,manufacturing and production of press tools & molds, with a comprehensive manufacturing capacity of more than 30 sets per month.Now the complete mold manufacturing process has been established, and an independent mold quality inspection group is equipped to realize the full inspection of the mold processing to ensure the precision and accuracy of mold.

02 Stamping Workshop

Equipped with high & medium speed stamping presses, and auxiliary equipment.The average punching speed can reach 100 to 300 strokes per minute, the highest punching speed can reach 500 strokes per minute, and the monthly production capacity of the workshop is to cater stamped parts for 5 millon MCB , 500K RCCB , 500K RCBO & 200K MCCB.

03 Spot Welding Workshop

Equipped with automatic coil winding machines, automatic braid compacting & cutting machines, automatic thermal and magnetic welding group assembly machines ,automatic armature assembly machines, automatic pad printing on handle and latch holder machines.The automation level is over 90%, and it is mainly responsible for the production of welding groups required by the finished product workshop.Through the integrated technology of winding and welding, automatic welding production has been realized. Thermal assembly heat treatment process is adopted to improve first pass yield during thermal verification process.

04 Injection Molding Workshop

Equipped with 38 injection molding machines from 60 to 350 ton capacity, overhead cranes and auxiliary equipment such as automatic warpage prevention machines, mould temperature controllers, granulators. The automation level is over 90%, realizing an automatic and efficient production process.Adopted centralised material feeding system to improve production efficiency and realize effective utilization of resources.Smart humidifying room, use advanced humidification process to strengthen the mechanical properties of the product.MAXGE adapts online CCD image detection unit though which critical parts of mechanism undergoes 100% inspection to ensure delatch free breakers. Through CCD image detection equipment, efficient, accurate and reliable image detection and analysis can be realized to ensure product quality.

05 ACB Automatic Testing Line

The product will go through the steps of manual assembly, contact parameters tests such as trip force, trip distance, ACB & cradle assembly by robot ,mechanical operation test unit to verify internal accessories and motor, current characteristic test unit , high voltage and loop resistance test unit, & appearance inspection by CCD device. Automation level has reached 80% and the monthly detection capacity has reached more than 1000 ACB.

06 MCCB Automatic Workshop

It mainly produces Moulded Case Circuit Breaker such as thermal magnetic type, electronic type, and ELCB type, as well as Intelligent Air Circuit Breaker.There are currently 8 automatic production lines & one manual line, and the monthly production capacity reaches 200,000 units.It has realized the automatic assembly & inspection of the whole process,including contact parameters such as automatic open distance, overtravel, on-off, synchronicity, trip force, trip distance, loop resistance, lift force & routine tests such as magnetic, thermal, reliability & HV test. Test line also equipped with laser printing & final appearance inspection by CCD device. The automation level has reached to 80%.

07 MCB Automatic Workshop

It mainly produces Miniature Circuit Breakers. There are 11 automatic production lines and 4 U-shaped lean production lines. At present, the average monthly production capacity can reach about 5 million poles.Equipped with automatic assembly, laser printing, riveting, Deltach test, terminal screw test, thermal calibration, cooling, thermal verification, automatic multi-pole assembly, magnetic test, on-off test and high voltage test, plasma arc cleaning, laser marking, pad printing, din clip fixing ,automatic packaging and other equipment, the automation level is over 90%.Through magnetic test, on-off test and high voltage test, to verify the response speed of the product and ensure that the power supply can be connected or disconnected stably.Adopt double-track automatic production line to improve production efficiency, add automatic tripping force measurement unit, conduct full inspection of products, and comprehensively monitor product quality.

08 RCCB Automatic Workshop

It mainly produces magnetic relay, electronic and electromagnetic Residual Current Circuit Breakers, plastic and metal type single-phase and three-phase Distribution Boxes, Photovoltaic Combiner Boxes and controlgear products.There are 4 automatic production lines and 4 U-shaped lean production lines. At present, the average monthly production capacity can reach about 400,000 poles.The key component of RCCB named magnetic relay is produced in a clean room of class one rating & temperature, humidity conditions are maintained within standard range.Equipped with magnetic relay workshop grinding machine, finished product workshop automatic demagnetization machine, automatic calibration bench, automatic on-off and HV test machine, magnetic relay automatic winding machine and other equipment, the detection automation level has reached 80%.

09 RCBO Automatic Workshop

It mainly produces Residual Current Circuit Breaker with Over Current Protection with different variants such as 2P Electronic RCBO, DPN RCBO, 1P Electronic RCBO, multipole RCBO, electromagnetic type RCBO & Arc Fault Detection Device.There are 5 automatic production lines,2 semi-automatic production lines and 3 U-shaped lean assembly lines. At present, the average monthly production capacity can reach about 500,000 poles.Equipped with automatic riveting, Deltach test, terminal screw test, magnetic test, on-off test, high voltage test, leakage current detection, thermal calibration, cooling, thermal verification, plasma arc cleaning, laser marking, pad printing and automatic packaging and other equipment, the automation level is over 85%.

CONTENTS

1 RCCB SERIES

EPR-2 Series Residual Current Circuit Breaker —— 03/05

EPRi Series Residual Current Circuit Breaker —— 06/10

EPRi-B Type B Residual Current Circuit Breaker —— 11/14

2 RCBO SERIES

EPBRi-6K/10K Series Residual Current Circuit Breakers with Overcurrent Protection —— 18/21

EPBR-40L Series Residual Current Circuit Breakers with Overcurrent Protection —— 22/24

EPBR-63M/H Series Residual Current Circuit Breakers with Overcurrent Protection —— 25/28

EPMR-40D Series Residual Current Circuit Breakers with Overcurrent Protection —— 29/32

EPBR-32M/H Series DPN Residual Current Circuit Breakers with Overcurrent Protection —— 33/36

EPRH/M-63LE Series Residual Current Circuit Breakers with Overcurrent Protection —— 37/48

AFDD Arc Fault Detection Device —— 49/56

3 MCB SERIES

EPB-63Me/Ne/Se Series Miniature Circuit Breaker —— 60/63

EPB-63M/H Series Miniature Circuit Breaker —— 64/69

EPB-63M-DC Series Miniature Circuit Breaker —— 70/73

EP-DPN Series Miniature Circuit Breaker —— 74/76

SGB-125H Series High Rated Miniature Circuit Breaker —— 77/79

EPI-R Series Isolating Switch —— 80/82

4 MCB Accessories SERIES

EPBA Series MCB Accessory —— 84/88

EPSO Series Door Bell —— 89/90

EPSL Series Indicating Light —— 91/94

5 Modular Contactor SERIES

EPC1 Series Modular Contactor —— 96/98

6 SPD SERIES

EPS1 Series Surge Protective Device —— 100/102

SGS1 Series Surge Protective Device —— 103/106

SGS1-DC Series Surge Protective Device —— 107/108

7 Fuse Holder SERIES

EPF-32 Series Fuse Holder —— 110/111

EPF-63 Series Fuse Holder —— 112/113

EPF-125 Series Fuse Holder —— 114/116

CONTENTS

RCCB SERIES

Residual Current Circuit Breaker

MAXGE

Products Overview of Residual Current Protective Devices

Product name	RCCB					
Product range	EPR-2		EPRi		EPRi-B	
Product picture						
Standard	IEC/EN 61008-1		IEC/EN 61008-1		IEC/EN 62423 IEC/EN 61008-1	
Number of poles	2P(1P+N)	4P(3P+N)	2P(1P+N)	4P(3P+N)	2P(1P+N)	4P(3P+N)
Electrical characteristics						
Rated current(A) In	16~80		25~100		16~63	
Rated voltage(V)	AC 240	AC 415	AC 240	AC 415	AC 240	AC 415
Rated residual current(mA)	10,30,100,300		30,100,300		30,100,300	
Rated conditional short-circuit current(kA)	6,10					
Tripping curve	------					
Residual current operating characteristic	AC,A,S				B	
Catalogue page NO.	03-05		06-10		11-14	

EPR-2 Series Residual Current Circuit Breaker

Standard	EN/IEC61008-1
Rated conditional short-circuit current(kA)	6,10
Rated current(A),In	16,20,25,32,40,50,63,80
Number of poles	2P(1P+N),4P(3P+N)
Rated sensitivity currents(mA),I∆n	10,30,100,300
Rated residual non-operating current	0.5XI∆n
Rated impulse withstand voltage Uimp(kV)	4
Rated voltage(V)	2pole AC 240
	4pole AC 415
Ambient temperature (℃)	-25~+40,Max.95%humidity
Residual current off--time at I∆n	≤0.1s
Rated residual current making & breaking capacity, I∆m	500A for In=16,25,32,40,50A 630A for In=63A 800A for In=80A
Type of trip	Electro-magnetic release
Terminal capacity	Cables up to 25mm²
Protection degree	IP20
Installation	35mm DIN rail
Certification	VDE KEMA EUR CE CB

EPR-2-2P

EPR-2-4P

EPR-2 Series Residual Current Circuit Breaker

	Rated current(A)	I∆n	Type AC	Type A	Packing unit
 EPR-2-2P	16	10mA	EPR-2/2/16/10	EPR-2/2/16/10-A	6
	20		EPR-2/2/20/10	EPR-2/2/20/10-A	
	25		EPR-2/2/25/10	EPR-2/2/25/10-A	
	16	30mA	EPR-2/2/16/30	EPR-2/2/16/30-A	
	20		EPR-2/2/20/30	EPR-2/2/20/30-A	
	25		EPR-2/2/25/30	EPR-2/2/25/30-A	
	32		EPR-2/2/32/30	EPR-2/2/32/30-A	
	40		EPR-2/2/40/30	EPR-2/2/40/30-A	
	50		EPR-2/2/50/30	EPR-2/2/50/30-A	
	63		EPR-2/2/63/30	EPR-2/2/63/30-A	
	80		EPR-2/2/80/30	EPR-2/2/80/30-A	
	16	100mA	EPR-2/2/16/100	EPR-2/2/16/100-A	
	20		EPR-2/2/20/100	EPR-2/2/20/100-A	
	25		EPR-2/2/25/100	EPR-2/2/25/100-A	
	32		EPR-2/2/32/100	EPR-2/2/32/100-A	
	40		EPR-2/2/40/100	EPR-2/2/40/100-A	
	50		EPR-2/2/50/100	EPR-2/2/50/100-A	
	63		EPR-2/2/63/100	EPR-2/2/63/100-A	
	80		EPR-2/2/80/100	EPR-2/2/80/100-A	
	16	300mA	EPR-2/2/16/300	EPR-2/2/16/300-A	
	20		EPR-2/2/20/300	EPR-2/2/20/300-A	
	25		EPR-2/2/25/300	EPR-2/2/25/300-A	
	32		EPR-2/2/32/300	EPR-2/2/32/300-A	
	40		EPR-2/2/40/300	EPR-2/2/40/300-A	
	50		EPR-2/2/50/300	EPR-2/2/50/300-A	
	63		EPR-2/2/63/300	EPR-2/2/63/300-A	
	80		EPR-2/2/80/300	EPR-2/2/80/300-A	
 EPR-2-4P	16	10mA	EPR-2/4/16/10	EPR-2/4/16/10-A	3
	20		EPR-2/4/20/10	EPR-2/4/20/10-A	
	25		EPR-2/4/25/10	EPR-2/4/25/10-A	
	16	30mA	EPR-2/4/16/30	EPR-2/4/16/30-A	
	20		EPR-2/4/20/30	EPR-2/4/20/30-A	
	25		EPR-2/4/25/30	EPR-2/4/25/30-A	
	32		EPR-2/4/32/30	EPR-2/4/32/30-A	
	40		EPR-2/4/40/30	EPR-2/4/40/30-A	
	50		EPR-2/4/50/30	EPR-2/4/50/30-A	
	63		EPR-2/4/63/30	EPR-2/4/63/30-A	
	80		EPR-2/4/80/30	EPR-2/4/80/30-A	
	16	100mA	EPR-2/4/16/100	EPR-2/4/16/100-A	
	20		EPR-2/4/20/100	EPR-2/4/20/100-A	
	25		EPR-2/4/25/100	EPR-2/4/25/100-A	
	32		EPR-2/4/32/100	EPR-2/4/32/100-A	
	40		EPR-2/4/40/100	EPR-2/4/40/100-A	
	50		EPR-2/4/50/100	EPR-2/4/50/100-A	
	63		EPR-2/4/63/100	EPR-2/4/63/100-A	
	80		EPR-2/4/80/100	EPR-2/4/80/100-A	
	16	300mA	EPR-2/4/16/300	EPR-2/4/16/300-A	
	20		EPR-2/4/20/300	EPR-2/4/20/300-A	
	25		EPR-2/4/25/300	EPR-2/4/25/300-A	
	32		EPR-2/4/32/300	EPR-2/4/32/300-A	
	40		EPR-2/4/40/300	EPR-2/4/40/300-A	
	50		EPR-2/4/50/300	EPR-2/4/50/300-A	
	63		EPR-2/4/63/300	EPR-2/4/63/300-A	
	80		EPR-2/4/80/300	EPR-2/4/80/300-A	

EPR-2 Series Residual Current Circuit Breaker

Life

In	Operating cycles		Operating frequency (operations/h)
	On-load operating cycles	Off-load operating cycles	
16,20,25,32	2000	2000	240
40,50,63,80	2000	1000	120

Breaking time of residual current

Max.breaking time					
In(A)	I∆n(A)	I∆n	2 I∆n	5 I∆n	5-500A
16,20,25,32,40,50,63,80	0.01,0.03,0.1,0.3	0.1s	0.08s	0.04s	0.04s

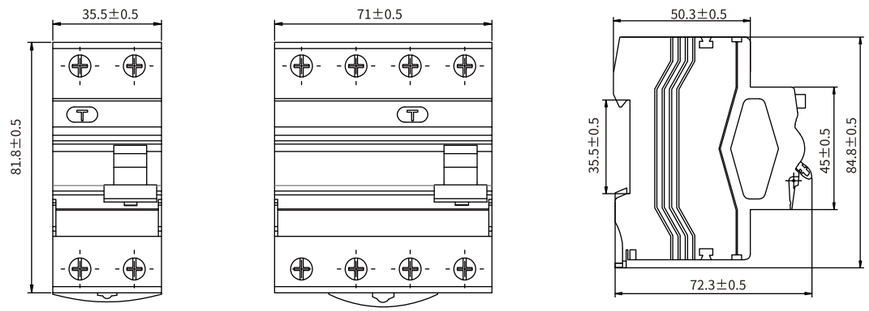
Wiring (The suitable conductors should be used for connection,see table below for relative parameters)

Rated current In (A)	Cross section area s(mm^2)	Tightening torque(N.m)
16	2.5	2.5
20	2.5	
25	4	
32	6	
40	10	
50	16	
63	16	
80	25	

Features

When designing residual current devices, manufacturing technology and type of routine tests, the IEC / EN 61008-1 standards were considered.Important features are:
Up to date design
User-friendly connection of conductors and busbars
Resistance to current surges; unwanted tripping excluded
Simple and solid fixing to a 35 mm mounting rail in compliance with EN 60715
Additional colour display of main contacts position (red:contacts closed, green:contacts open)

Overall and mounting dimensions



EPR-2

EPRi Series Residual Current Circuit Breaker

Standard	EN/IEC61008-1
Rated conditional short-circuit current(kA)	6,10
Rated current(A),In	25,32,40,63,80,100
Number of poles	2P(1P+N),4P(3P+N)
Rated sensitivity currents(mA),I∆n	30,100,300
Rated residual non-operating current	0.5XI∆n
Rated impulse withstand voltage Uimp(kV)	4
Rated voltage(V)	2pole AC 240
	4pole AC 415
Ambient temperature (℃)	-25~+40,Max.95%humidity
Residual current off--time at I∆n	≤0.1s
Rated residual current making & breaking capacity, I∆m	500A for In=16,25,32,40A 630A for In=63A 800A for In=80A 1000A for In=100A
Type of trip	Electro-magnetic release
Terminal capacity	Cables up to 35mm^2
Protection degree	IP20
Installation	35mm DIN rail
Certification	Intertek CE CB

EPRi-2P

EPRi-4P

EPRi Series Residual Current Circuit Breaker

	Rated current(A)	IΔn	Type AC+S ⏦+Ⓢ	Packing unit
EPRi-2P  ⏦+Ⓢ	25	30mA	EPRi-2/25/30-S	6
	32		EPRi-2/32/30-S	
	40		EPRi-2/40/30-S	
	63		EPRi-2/63/30-S	
	80		EPRi-2/80/30-S	
	100		EPRi-2/100/30-S	
	25	100mA	EPRi-2/25/100-S	
	32		EPRi-2/32/100-S	
	40		EPRi-2/40/100-S	
	63		EPRi-2/63/100-S	
	80		EPRi-2/80/100-S	
	100		EPRi-2/100/100-S	
	25	300mA	EPRi-2/25/300-S	
	32		EPRi-2/32/300-S	
	40		EPRi-2/40/300-S	
	63		EPRi-2/63/300-S	
	80		EPRi-2/80/300-S	
	100		EPRi-2/100/300-S	
EPRi-4P  ⏦+Ⓢ	25	30mA	EPRi-4/25/30-S	3
	32		EPRi-4/32/30-S	
	40		EPRi-4/40/30-S	
	63		EPRi-4/63/30-S	
	80		EPRi-4/80/30-S	
	100		EPRi-4/100/30-S	
	25	100mA	EPRi-4/25/100-S	
	32		EPRi-4/32/100-S	
	40		EPRi-4/40/100-S	
	63		EPRi-4/63/100-S	
	80		EPRi-4/80/100-S	
	100		EPRi-4/100/100-S	
	25	300mA	EPRi-4/25/300-S	
	32		EPRi-4/32/300-S	
	40		EPRi-4/40/300-S	
	63		EPRi-4/63/300-S	
	80		EPRi-4/80/300-S	
	100		EPRi-4/100/300-S	

EPRi Series Residual Current Circuit Breaker

	Rated current(A)	IΔn	Type A+S ⏦+Ⓢ	Packing unit
EPRi-2P  ⏦+Ⓢ	25	30mA	EPRi-2/25/30-A-S	6
	32		EPRi-2/32/30-A-S	
	40		EPRi-2/40/30-A-S	
	63		EPRi-2/63/30-A-S	
	80		EPRi-2/80/30-A-S	
	100		EPRi-2/100/30-A-S	
	25	100mA	EPRi-2/25/100-A-S	
	32		EPRi-2/32/100-A-S	
	40		EPRi-2/40/100-A-S	
	63		EPRi-2/63/100-A-S	
	80		EPRi-2/80/100-A-S	
	100		EPRi-2/100/100-A-S	
	25	300mA	EPRi-2/25/300-A-S	
	32		EPRi-2/32/300-A-S	
	40		EPRi-2/40/300-A-S	
	63		EPRi-2/63/300-A-S	
	80		EPRi-2/80/300-A-S	
	100		EPRi-2/100/300-A-S	
EPRi-4P  ⏦+Ⓢ	25	30mA	EPRi-4/25/30-A-S	3
	32		EPRi-4/32/30-A-S	
	40		EPRi-4/40/30-A-S	
	63		EPRi-4/63/30-A-S	
	80		EPRi-4/80/30-A-S	
	100		EPRi-4/100/30-A-S	
	25	100mA	EPRi-4/25/100-A-S	
	32		EPRi-4/32/100-A-S	
	40		EPRi-4/40/100-A-S	
	63		EPRi-4/63/100-A-S	
	80		EPRi-4/80/100-A-S	
	100		EPRi-4/100/100-A-S	
	25	300mA	EPRi-4/25/300-A-S	
	32		EPRi-4/32/300-A-S	
	40		EPRi-4/40/300-A-S	
	63		EPRi-4/63/300-A-S	
	80		EPRi-4/80/300-A-S	
	100		EPRi-4/100/300-A-S	

EPRi Series Residual Current Circuit Breaker

	Rated current(A)	IΔn	Type AC	Type A	Packing unit
EPRi-2P 	25	30mA	EPRi-2/25/30	EPRi-2/25/30-A	6
	32		EPRi-2/32/30	EPRi-2/32/30-A	
	40		EPRi-2/40/30	EPRi-2/40/30-A	
	63		EPRi-2/63/30	EPRi-2/63/30-A	
	80		EPRi-2/80/30	EPRi-2/80/30-A	
	100		EPRi-2/100/30	EPRi-2/100/30-A	
	25	100mA	EPRi-2/25/100	EPRi-2/25/100-A	
	32		EPRi-2/32/100	EPRi-2/32/100-A	
	40		EPRi-2/40/100	EPRi-2/40/100-A	
	63		EPRi-2/63/100	EPRi-2/63/100-A	
	80		EPRi-2/80/100	EPRi-2/80/100-A	
	100		EPRi-2/100/100	EPRi-2/100/100-A	
	25	300mA	EPRi-2/25/300	EPRi-2/25/300-A	
	32		EPRi-2/32/300	EPRi-2/32/300-A	
	40		EPRi-2/40/300	EPRi-2/40/300-A	
	63		EPRi-2/63/300	EPRi-2/63/300-A	
	80		EPRi-2/80/300	EPRi-2/80/300-A	
	100		EPRi-2/100/300	EPRi-2/100/300-A	
EPRi-4P 	25	30mA	EPRi-4/25/30	EPRi-4/25/30-A	3
	32		EPRi-4/32/30	EPRi-4/32/30-A	
	40		EPRi-4/40/30	EPRi-4/40/30-A	
	63		EPRi-4/63/30	EPRi-4/63/30-A	
	80		EPRi-4/80/30	EPRi-4/80/30-A	
	100		EPRi-4/100/30	EPRi-4/100/30-A	
	25	100mA	EPRi-4/25/100	EPRi-4/25/100-A	
	32		EPRi-4/32/100	EPRi-4/32/100-A	
	40		EPRi-4/40/100	EPRi-4/40/100-A	
	63		EPRi-4/63/100	EPRi-4/63/100-A	
	80		EPRi-4/80/100	EPRi-4/80/100-A	
	100		EPRi-4/100/100	EPRi-4/100/100-A	
	25	300mA	EPRi-4/25/300	EPRi-4/25/300-A	
	32		EPRi-4/32/300	EPRi-4/32/300-A	
	40		EPRi-4/40/300	EPRi-4/40/300-A	
	63		EPRi-4/63/300	EPRi-4/63/300-A	
	80		EPRi-4/80/300	EPRi-4/80/300-A	
	100		EPRi-4/100/300	EPRi-4/100/300-A	

EPRi Series Residual Current Circuit Breaker

Life

In	Operating cycles		Operating frequency (operations/h)
	On-load operating cycles	Off-load operating cycles	
25,32	2000	2000	240
40,63,80,100	2000	1000	120

Breaking time of residual current

Max.breaking time						
Leakage type	In(A)	IΔn(A)	IΔn	2 IΔn	5 IΔn	5-500A
A,AC	25,32,40,63,80,100	0.03,0.1,0.3	0.1s	0.08s	0.04s	0.04s
S		0.1,0.3	0.13s-0.5s	0.06s-0.2s	0.05s-0.15s	0.05s-0.15s

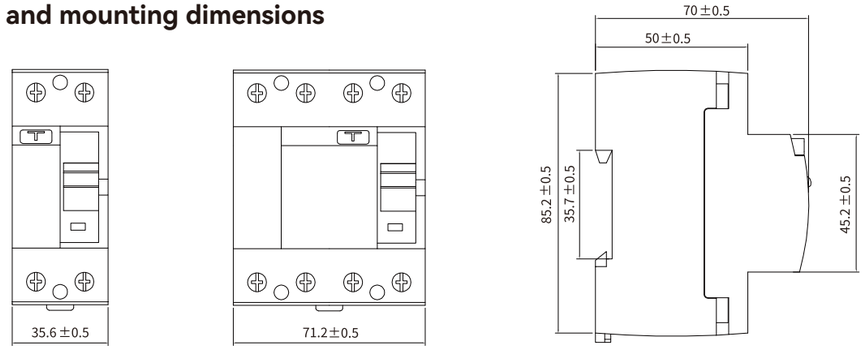
Wiring (The suitable conductors should be used for connection,see table below for relative parameters)

Rated current In (A)	Cross section area s(mm^2)	Tightening torque(N.m)
25	4	2.5
32	6	
40	10	
63	16	
80	25	
100	35	

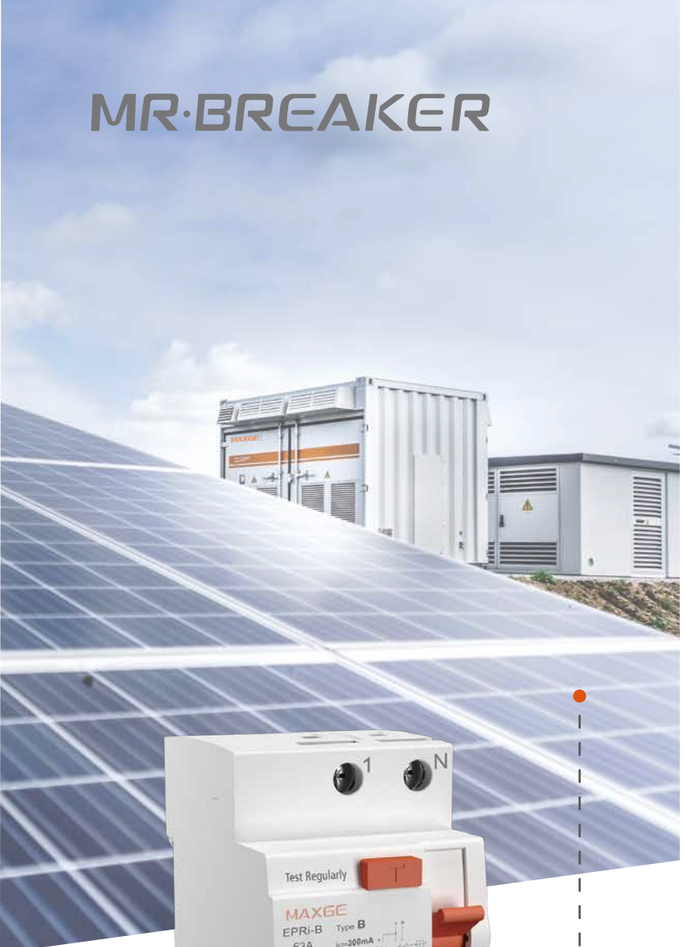
Features

When designing residual current devices, manufacturing technology and type of routine tests, the IEC / EN 61008-1 standards were considered.Important features are:
Up to date design
User-friendly connection of conductors and busbars
Resistance to current surges; unwanted tripping excluded
Simple and solid fixing to a 35 mm mounting rail in compliance with EN 60715
Additional colour display of main contacts position (red:contacts closed, green:contacts open)
Type S Ⓢ:Selective type, RCD with non-operation time of atleast 40 ms
- ·High resistance to peak current up to 5 kA (IEC standardsrequire 3 kA).
- ·Meets conditions for tripping time 0.4 or 0.2 s (automatic disconnection).
- ·Type S is used as main circuit breaker or in combinationwith class II (C) surge voltage protectors.
- ·Significantly reduces unwanted trippings.

Overall and mounting dimensions



EPRi



RCCB Type B
EPRi-B Series

- High reliability
- Switched Neutral
- EV Charging & Solar PV Application
- Tripping Under AC,Pulsating & Smooth DC Currents
- Protection against direct/indirect contact

Charging Station

MAXGE

EPRi-B Series	Residual Current Circuit Breaker
Standard	EN/IEC 62423 IEC/EN 61008-1
Rated conditional short-circuit current(kA)	6,10
Rated current(A),In	16,25,32,40,50,63
Number of poles	2P(1P+N),4P(3P+N)
Rated sensitivity currents(mA),IΔn	30,100,300
Rated residual non-operating current	0.5XIΔn
Rated impulse withstand voltage Uimp(kV)	4
Rated voltage(V)	2pole AC 230/240
	4pole AC 400/415
Ambient temperature (℃)	-25~+40,Max.95%humidity
Residual current off--time at IΔn	≤0.1s
Rated residual current making & breaking capacity, IΔm	500A for In=16,25,32,40A 630A for In=63A
Type of trip	Electro-magnetic release
Terminal capacity	Cables up to 35mm^2
Protection degree	IP20
Installation	35mm DIN rail
Certification	VDE CE

EPRi-B-2P

EPRi-B-4P

EPRi-B Series Residual Current Circuit Breaker

	Rated current(A)	IΔn	B Type	Packing unit
 EPRi-B-2P	16	30mA	EPRi-B/2/16/30	6
	25		EPRi-B/2/25/30	
	32		EPRi-B/2/32/30	
	40		EPRi-B/2/40/30	
	50		EPRi-B/2/50/30	
	63		EPRi-B/2/63/30	
	16	100mA	EPRi-B/2/16/100	
	25		EPRi-B/2/25/100	
	32		EPRi-B/2/32/100	
	40		EPRi-B/2/40/100	
	50		EPRi-B/2/50/100	
	63		EPRi-B/2/63/100	
	16	300mA	EPRi-B/2/16/300	
	25		EPRi-B/2/25/300	
	32		EPRi-B/2/32/300	
	40		EPRi-B/2/40/300	
	50		EPRi-B/2/50/300	
	63		EPRi-B/2/63/300	
 EPRi-B-4P	16	30mA	EPRi-B/4/16/30	3
	25		EPRi-B/4/25/30	
	32		EPRi-B/4/32/30	
	40		EPRi-B/4/40/30	
	50		EPRi-B/4/50/30	
	63		EPRi-B/4/63/30	
	16	100mA	EPRi-B/4/16/100	
	25		EPRi-B/4/25/100	
	32		EPRi-B/4/32/100	
	40		EPRi-B/4/40/100	
	50		EPRi-B/4/50/100	
	63		EPRi-B/4/63/100	
	16	300mA	EPRi-B/4/16/300	
	25		EPRi-B/4/25/300	
	32		EPRi-B/4/32/300	
	40		EPRi-B/4/40/300	
	50		EPRi-B/4/50/300	
	63		EPRi-B/4/63/300	

EPRi-B Series Residual Current Circuit Breaker

Life

In	Operating cycles		Operating frequency (operations/h)
	On-load operating cycles	Off-load operating cycles	
16,25,32	2000	2000	240
40,50,63	2000	1000	120

Breaking time of residual current

Max.breaking time					
In(A)	IΔn(A)	IΔn	2 IΔn	5 IΔn	5-500A
16,25,32,40,50,63	0.03,0.1,0.3	0.1s	0.08s	0.04s	0.04s

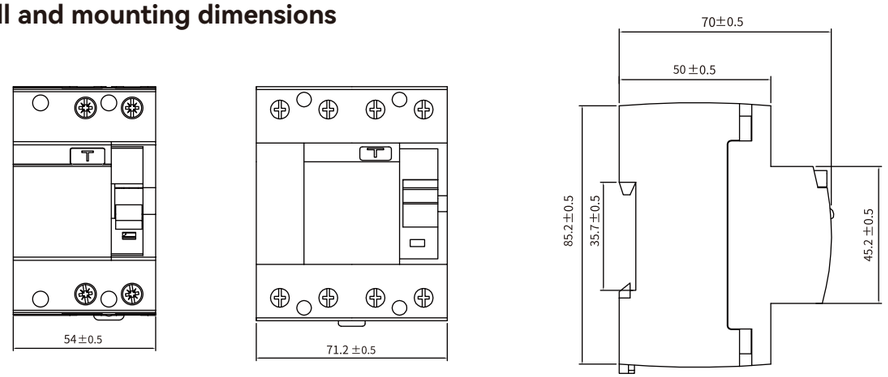
Wiring (The suitable conductors should be used for connection,see table below for relative parameters)

Rated current In (A)	Cross section area s(mm^2)	Tightening torque(N.m)
16	4	2.5
25	4	
32	6	
40	10	
50	16	
63	16	

Features

When designing residual current devices, manufacturing technology and type of routine tests, the IEC / EN 62423 standards were considered.Important features are:
Up to date design
User-friendly connection of conductors and busbars
Resistance to current surges; unwanted tripping excluded
Simple and solid fixing to a 35 mm mounting rail
Additional colour display of main contacts position (red:contacts closed, green:contacts open)

Overall and mounting dimensions



EPRi-B

RCBO SERIES

Residual Current Circuit Breakers with Overcurrent Protection

MAXGE

Products Overview of Residual Current Protective Devices

Product name	RCBO			
Product range	EPBRi-6K/10K	EPBR-40L	EPBR-63M/H	EPMR-40D
Product picture				
Standard	IEC/EN 61009-1			
Number of poles	1P+N			2P
Electrical characteristics				
Rated current(A) In	6~40		6~63	6~40
Rated voltage(V)	AC 230/240			
Rated residual current(mA)	10,30,100,300			30,100,300
Rated conditional short-circuit current(kA)	6,10	6	6,10	
Tripping curve	B,C			
Residual current operating characteristic	AC,A			AC,A,A+G
Catalogue page NO.	18-21	22-24	25-28	29-32

Products Overview of Residual Current Protective Devices

Product name	RCBO			
Product range	EPBR-32M/H	EPRM-63LE	EPBR-40AFD	EPBR2-40AFD
Product picture				
Standard	IEC/EN 61009-1		IEC/EN 62606 IEC/EN 61009-1	
Number of poles	1P+N	1P+N,2P,3P,3P+N,4P	1P+N	1P+N
Electrical characteristics				
Rated current(A) In	6~32	6~63	6~40	
Rated voltage(V)	AC 230/240	1P+N, 2P: AC 230 3P, 3P+N, 4P:AC 400	AC 230/240	
Rated residual current(mA)	10,30,100,300			
Rated conditional short-circuit current(kA)	4.5,6	6,10	6	6,10
Tripping curve	B,C			
Residual current operating characteristic	AC,A			
Catalogue page NO.	33-36	37-48	49-52	53-56

EPBRi Series Residual Current Circuit Breakers with Overcurrent Protection

Standard		EN/IEC61009-1
Rated conditional short-circuit current(kA)		6,10
Rated current(A),In		6,10,13,16,20,25,32,40
Number of poles		1 P+N(Solid Neutral)
Rated sensitivity currents(mA),I∆n		10,30,100,300
Tripping curve		B,C
Rated residual non-operating current		0.5XI∆n
Rated impulse withstand voltage Uimp(kV)		4
Rated voltage(V)		AC 230/240
Ambient temperature (°C)		-25~+40,Max.95%humidity
Residual current off time		≤0.1s
Type of trip	Ground fault	Electronic
	Over current	Thermal-magnetic
Electrical endurance		4000
Mechanical endurance		10000
Terminal capacity		10mm² flexible/16mm² rigid
Protection degree		IP20
Installation		35mm DIN rail
Certification		Intertek CE CB

EPBRi-6K

EPBRi-10K

EPBRi-6K Residual Current Circuit Breakers with Overcurrent Protection

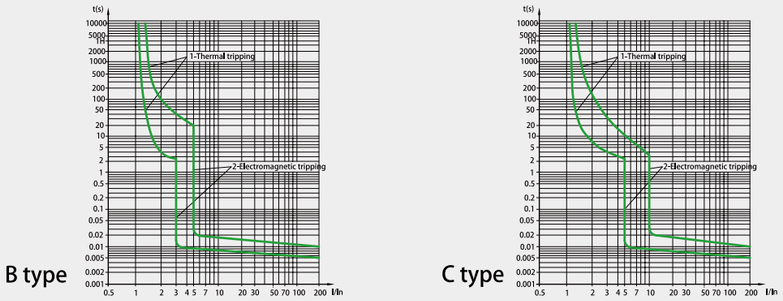
	Rated current(A)	IΔn	Type AC		Type A		Packing unit
			B curve	C curve	B curve	C curve	
 Type AC	6	10mA	EPBRi-6K/B6/10	EPBRi-6K/C6/10	EPBRi-6K/B6/10-A	EPBRi-6K/C6/10-A	5
	10		EPBRi-6K/B10/10	EPBRi-6K/C10/10	EPBRi-6K/B10/10-A	EPBRi-6K/C10/10-A	
	13		EPBRi-6K/B13/10	EPBRi-6K/C13/10	EPBRi-6K/B13/10-A	EPBRi-6K/C13/10-A	
	16		EPBRi-6K/B16/10	EPBRi-6K/C16/10	EPBRi-6K/B16/10-A	EPBRi-6K/C16/10-A	
	20		EPBRi-6K/B20/10	EPBRi-6K/C20/10	EPBRi-6K/B20/10-A	EPBRi-6K/C20/10-A	
	25		EPBRi-6K/B25/10	EPBRi-6K/C25/10	EPBRi-6K/B25/10-A	EPBRi-6K/C25/10-A	
	32		EPBRi-6K/B32/10	EPBRi-6K/C32/10	EPBRi-6K/B32/10-A	EPBRi-6K/C32/10-A	
	40		EPBRi-6K/B40/10	EPBRi-6K/C40/10	EPBRi-6K/B40/10-A	EPBRi-6K/C40/10-A	
	6	30mA	EPBRi-6K/B6/30	EPBRi-6K/C6/30	EPBRi-6K/B6/30-A	EPBRi-6K/C6/30-A	
	10		EPBRi-6K/B10/30	EPBRi-6K/C10/30	EPBRi-6K/B10/30-A	EPBRi-6K/C10/30-A	
	13		EPBRi-6K/B13/30	EPBRi-6K/C13/30	EPBRi-6K/B13/30-A	EPBRi-6K/C13/30-A	
	16		EPBRi-6K/B16/30	EPBRi-6K/C16/30	EPBRi-6K/B16/30-A	EPBRi-6K/C16/30-A	
	20		EPBRi-6K/B20/30	EPBRi-6K/C20/30	EPBRi-6K/B20/30-A	EPBRi-6K/C20/30-A	
	25		EPBRi-6K/B25/30	EPBRi-6K/C25/30	EPBRi-6K/B25/30-A	EPBRi-6K/C25/30-A	
	32		EPBRi-6K/B32/30	EPBRi-6K/C32/30	EPBRi-6K/B32/30-A	EPBRi-6K/C32/30-A	
	40		EPBRi-6K/B40/30	EPBRi-6K/C40/30	EPBRi-6K/B40/30-A	EPBRi-6K/C40/30-A	
 Type A	6	100mA	EPBRi-6K/B6/100	EPBRi-6K/C6/100	EPBRi-6K/B6/100-A	EPBRi-6K/C6/100-A	
	10		EPBRi-6K/B10/100	EPBRi-6K/C10/100	EPBRi-6K/B10/100-A	EPBRi-6K/C10/100-A	
	13		EPBRi-6K/B13/100	EPBRi-6K/C13/100	EPBRi-6K/B13/100-A	EPBRi-6K/C13/100-A	
	16		EPBRi-6K/B16/100	EPBRi-6K/C16/100	EPBRi-6K/B16/100-A	EPBRi-6K/C16/100-A	
	20		EPBRi-6K/B20/100	EPBRi-6K/C20/100	EPBRi-6K/B20/100-A	EPBRi-6K/C20/100-A	
	25		EPBRi-6K/B25/100	EPBRi-6K/C25/100	EPBRi-6K/B25/100-A	EPBRi-6K/C25/100-A	
	32		EPBRi-6K/B32/100	EPBRi-6K/C32/100	EPBRi-6K/B32/100-A	EPBRi-6K/C32/100-A	
	40		EPBRi-6K/B40/100	EPBRi-6K/C40/100	EPBRi-6K/B40/100-A	EPBRi-6K/C40/100-A	
	6	300mA	EPBRi-6K/B6/300	EPBRi-6K/C6/300	EPBRi-6K/B6/300-A	EPBRi-6K/C6/300-A	
	10		EPBRi-6K/B10/300	EPBRi-6K/C10/300	EPBRi-6K/B10/300-A	EPBRi-6K/C10/300-A	
	13		EPBRi-6K/B13/300	EPBRi-6K/C13/300	EPBRi-6K/B13/300-A	EPBRi-6K/C13/300-A	
	16		EPBRi-6K/B16/300	EPBRi-6K/C16/300	EPBRi-6K/B16/300-A	EPBRi-6K/C16/300-A	
	20		EPBRi-6K/B20/300	EPBRi-6K/C20/300	EPBRi-6K/B20/300-A	EPBRi-6K/C20/300-A	
	25		EPBRi-6K/B25/300	EPBRi-6K/C25/300	EPBRi-6K/B25/300-A	EPBRi-6K/C25/300-A	
	32		EPBRi-6K/B32/300	EPBRi-6K/C32/300	EPBRi-6K/B32/300-A	EPBRi-6K/C32/300-A	
	40		EPBRi-6K/B40/300	EPBRi-6K/C40/300	EPBRi-6K/B40/300-A	EPBRi-6K/C40/300-A	

EPBRi-10K Residual Current Circuit Breakers with Overcurrent Protection

	Rated current(A)	IΔn	Type AC		Type A		Packing unit
			B curve	C curve	B curve	C curve	
 Type AC	6	10mA	EPBRi-10K/B6/10	EPBRi-10K/C6/10	EPBRi-10K/B6/10-A	EPBRi-10K/C6/10-A	5
	10		EPBRi-10K/B10/10	EPBRi-10K/C10/10	EPBRi-10K/B10/10-A	EPBRi-10K/C10/10-A	
	13		EPBRi-10K/B13/10	EPBRi-10K/C13/10	EPBRi-10K/B13/10-A	EPBRi-10K/C13/10-A	
	16		EPBRi-10K/B16/10	EPBRi-10K/C16/10	EPBRi-10K/B16/10-A	EPBRi-10K/C16/10-A	
	20		EPBRi-10K/B20/10	EPBRi-10K/C20/10	EPBRi-10K/B20/10-A	EPBRi-10K/C20/10-A	
	25		EPBRi-10K/B25/10	EPBRi-10K/C25/10	EPBRi-10K/B25/10-A	EPBRi-10K/C25/10-A	
	32		EPBRi-10K/B32/10	EPBRi-10K/C32/10	EPBRi-10K/B32/10-A	EPBRi-10K/C32/10-A	
	40		EPBRi-10K/B40/10	EPBRi-10K/C40/10	EPBRi-10K/B40/10-A	EPBRi-10K/C40/10-A	
	6	30mA	EPBRi-10K/B6/30	EPBRi-10K/C6/30	EPBRi-10K/B6/30-A	EPBRi-10K/C6/30-A	
	10		EPBRi-10K/B10/30	EPBRi-10K/C10/30	EPBRi-10K/B10/30-A	EPBRi-10K/C10/30-A	
	13		EPBRi-10K/B13/30	EPBRi-10K/C13/30	EPBRi-10K/B13/30-A	EPBRi-10K/C13/30-A	
	16		EPBRi-10K/B16/30	EPBRi-10K/C16/30	EPBRi-10K/B16/30-A	EPBRi-10K/C16/30-A	
	20		EPBRi-10K/B20/30	EPBRi-10K/C20/30	EPBRi-10K/B20/30-A	EPBRi-10K/C20/30-A	
	25		EPBRi-10K/B25/30	EPBRi-10K/C25/30	EPBRi-10K/B25/30-A	EPBRi-10K/C25/30-A	
	32		EPBRi-10K/B32/30	EPBRi-10K/C32/30	EPBRi-10K/B32/30-A	EPBRi-10K/C32/30-A	
	40		EPBRi-10K/B40/30	EPBRi-10K/C40/30	EPBRi-10K/B40/30-A	EPBRi-10K/C40/30-A	
 Type A	6	100mA	EPBRi-10K/B6/100	EPBRi-10K/C6/100	EPBRi-10K/B6/100-A	EPBRi-10K/C6/100-A	
	10		EPBRi-10K/B10/100	EPBRi-10K/C10/100	EPBRi-10K/B10/100-A	EPBRi-10K/C10/100-A	
	13		EPBRi-10K/B13/100	EPBRi-10K/C13/100	EPBRi-10K/B13/100-A	EPBRi-10K/C13/100-A	
	16		EPBRi-10K/B16/100	EPBRi-10K/C16/100	EPBRi-10K/B16/100-A	EPBRi-10K/C16/100-A	
	20		EPBRi-10K/B20/100	EPBRi-10K/C20/100	EPBRi-10K/B20/100-A	EPBRi-10K/C20/100-A	
	25		EPBRi-10K/B25/100	EPBRi-10K/C25/100	EPBRi-10K/B25/100-A	EPBRi-10K/C25/100-A	
	32		EPBRi-10K/B32/100	EPBRi-10K/C32/100	EPBRi-10K/B32/100-A	EPBRi-10K/C32/100-A	
	40		EPBRi-10K/B40/100	EPBRi-10K/C40/100	EPBRi-10K/B40/100-A	EPBRi-10K/C40/100-A	
	6	300mA	EPBRi-10K/B6/300	EPBRi-10K/C6/300	EPBRi-10K/B6/300-A	EPBRi-10K/C6/300-A	
	10		EPBRi-10K/B10/300	EPBRi-10K/C10/300	EPBRi-10K/B10/300-A	EPBRi-10K/C10/300-A	
	13		EPBRi-10K/B13/300	EPBRi-10K/C13/300	EPBRi-10K/B13/300-A	EPBRi-10K/C13/300-A	
	16		EPBRi-10K/B16/300	EPBRi-10K/C16/300	EPBRi-10K/B16/300-A	EPBRi-10K/C16/300-A	
	20		EPBRi-10K/B20/300	EPBRi-10K/C20/300	EPBRi-10K/B20/300-A	EPBRi-10K/C20/300-A	
	25		EPBRi-10K/B25/300	EPBRi-10K/C25/300	EPBRi-10K/B25/300-A	EPBRi-10K/C25/300-A	
	32		EPBRi-10K/B32/300	EPBRi-10K/C32/300	EPBRi-10K/B32/300-A	EPBRi-10K/C32/300-A	
	40		EPBRi-10K/B40/300	EPBRi-10K/C40/300	EPBRi-10K/B40/300-A	EPBRi-10K/C40/300-A	

EPBRi Series Residual Current Circuit Breakers with Overcurrent Protection

Curves



Breaking time of residual current

Max.breaking time					
In(A)	I△n(A)	I△n	2 I△n	5 I△n	5-500A
6-40	0.01,0.03,0.1,0.3	0.1s	0.08s	0.04s	0.04s

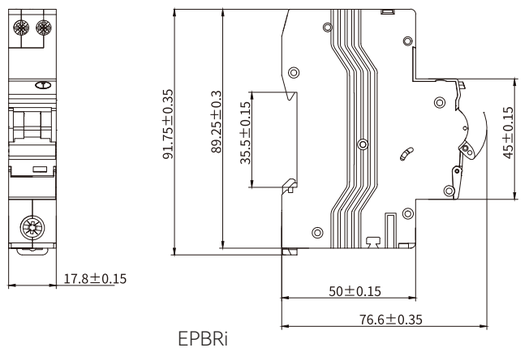
Wiring (The suitable conductors should be used for connection,see table below for relative parameters)

Rated current In (A)	Cross section area s(mm²)	Tightening torque(N.m)
6	1	
10	1.5	
16-20	2.5	M5 2.0
25	4	M4 1.2
32	6	
40	10	

Features

Switching and isolation function.
Protection against overload and short-circuit currents.
Protection against the effects of sinusoidal alternating earth fault currents.
Protection against indirect contacts and additional protection against direct contacts.
Protection against fire hazard caused by insulation faults.
Used in residential building and distribution boards.

Overall and mounting dimensions



EPBRi

EPBR-40L Series Residual Current Circuit Breakers with Overcurrent Protection

Standard		EN/IEC61009-1
Rated conditional short-circuit current(kA)		6
Rated current(A),In		6,10,13,16,20,25,32,40
Number of poles		1P+N(Switched Neutral)
Rated sensitivity currents(mA),I△n		10,30,100,300
Tripping curve		B,C
Rated residual non-operating current		0.5XI△n
Rated impulse withstand voltage Uimp(kV)		4
Rated voltage(V)		AC 230/240
Ambient temperature (°C)		-25~+40,Max.95%humidity
Residual current off time		≤0.1s
Type of trip	Ground fault	Electronic
	Over current	Thermal-magnetic
Electrical endurance		4000
Mechanical endurance		10000
Terminal capacity		10mm² flexible / 16mm² rigid
Protection degree		IP20
Installation		35mm DIN rail
Certification		Intertek CE CB

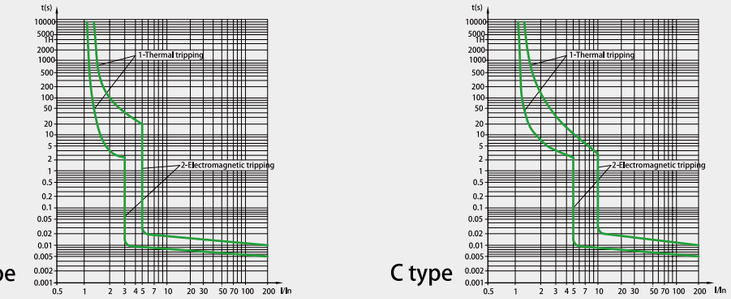
EPBR-40L

EPBR-40L Series Residual Current Circuit Breakers with Overcurrent Protection

	Rated current(A)	IΔn	Type AC B curve	Type AC C curve	Type A B curve	Type A C curve	Packing unit
 Type AC	6	10mA	EPBR-40L/B6/10	EPBR-40L/C6/10	EPBR-40L/B6/10-A	EPBR-40L/C6/10-A	1
	10		EPBR-40L/B10/10	EPBR-40L/C10/10	EPBR-40L/B10/10-A	EPBR-40L/C10/10-A	
	13		EPBR-40L/B13/10	EPBR-40L/C13/10	EPBR-40L/B13/10-A	EPBR-40L/C13/10-A	
	16		EPBR-40L/B16/10	EPBR-40L/C16/10	EPBR-40L/B16/10-A	EPBR-40L/C16/10-A	
	20		EPBR-40L/B20/10	EPBR-40L/C20/10	EPBR-40L/B20/10-A	EPBR-40L/C20/10-A	
	25		EPBR-40L/B25/10	EPBR-40L/C25/10	EPBR-40L/B25/10-A	EPBR-40L/C25/10-A	
	32		EPBR-40L/B32/10	EPBR-40L/C32/10	EPBR-40L/B32/10-A	EPBR-40L/C32/10-A	
	40		EPBR-40L/B40/10	EPBR-40L/C40/10	EPBR-40L/B40/10-A	EPBR-40L/C40/10-A	
	6	30mA	EPBR-40L/B6/30	EPBR-40L/C6/30	EPBR-40L/B6/30-A	EPBR-40L/C6/30-A	
	10		EPBR-40L/B10/30	EPBR-40L/C10/30	EPBR-40L/B10/30-A	EPBR-40L/C10/30-A	
	13		EPBR-40L/B13/30	EPBR-40L/C13/30	EPBR-40L/B13/30-A	EPBR-40L/C13/30-A	
	16		EPBR-40L/B16/30	EPBR-40L/C16/30	EPBR-40L/B16/30-A	EPBR-40L/C16/30-A	
	20		EPBR-40L/B20/30	EPBR-40L/C20/30	EPBR-40L/B20/30-A	EPBR-40L/C20/30-A	
	25		EPBR-40L/B25/30	EPBR-40L/C25/30	EPBR-40L/B25/30-A	EPBR-40L/C25/30-A	
	32		EPBR-40L/B32/30	EPBR-40L/C32/30	EPBR-40L/B32/30-A	EPBR-40L/C32/30-A	
	40		EPBR-40L/B40/30	EPBR-40L/C40/30	EPBR-40L/B40/30-A	EPBR-40L/C40/30-A	
 Type A	6	100mA	EPBR-40L/B6/100	EPBR-40L/C6/100	EPBR-40L/B6/100-A	EPBR-40L/C6/100-A	
	10		EPBR-40L/B10/100	EPBR-40L/C10/100	EPBR-40L/B10/100-A	EPBR-40L/C10/100-A	
	13		EPBR-40L/B13/100	EPBR-40L/C13/100	EPBR-40L/B13/100-A	EPBR-40L/C13/100-A	
	16		EPBR-40L/B16/100	EPBR-40L/C16/100	EPBR-40L/B16/100-A	EPBR-40L/C16/100-A	
	20		EPBR-40L/B20/100	EPBR-40L/C20/100	EPBR-40L/B20/100-A	EPBR-40L/C20/100-A	
	25		EPBR-40L/B25/100	EPBR-40L/C25/100	EPBR-40L/B25/100-A	EPBR-40L/C25/100-A	
	32		EPBR-40L/B32/100	EPBR-40L/C32/100	EPBR-40L/B32/100-A	EPBR-40L/C32/100-A	
	40		EPBR-40L/B40/100	EPBR-40L/C40/100	EPBR-40L/B40/100-A	EPBR-40L/C40/100-A	
	6	300mA	EPBR-40L/B6/300	EPBR-40L/C6/300	EPBR-40L/B6/300-A	EPBR-40L/C6/300-A	
	10		EPBR-40L/B10/300	EPBR-40L/C10/300	EPBR-40L/B10/300-A	EPBR-40L/C10/300-A	
	13		EPBR-40L/B13/300	EPBR-40L/C13/300	EPBR-40L/B13/300-A	EPBR-40L/C13/300-A	
	16		EPBR-40L/B16/300	EPBR-40L/C16/300	EPBR-40L/B16/300-A	EPBR-40L/C16/300-A	
	20		EPBR-40L/B20/300	EPBR-40L/C20/300	EPBR-40L/B20/300-A	EPBR-40L/C20/300-A	
	25		EPBR-40L/B25/300	EPBR-40L/C25/300	EPBR-40L/B25/300-A	EPBR-40L/C25/300-A	
	32		EPBR-40L/B32/300	EPBR-40L/C32/300	EPBR-40L/B32/300-A	EPBR-40L/C32/300-A	
	40		EPBR-40L/B40/300	EPBR-40L/C40/300	EPBR-40L/B40/300-A	EPBR-40L/C40/300-A	

EPBR-40L Series Residual Current Circuit Breakers with Overcurrent Protection

Curves



B type C type

Breaking time of residual current

Max.breaking time					
In(A)	IΔn(A)	IΔn	2 IΔn	5 IΔn	5-500A
6-40	0.01,0.03,0.1,0.3	0.1s	0.08s	0.04s	0.04s

Wiring (The suitable conductors should be used for connection,see table below for relative parameters)

Rated current In (A)	Cross section area s(mm²)	Tightening torque(N.m)
6	1	M5 2.0 M4 1.2
10	1.5	
13	1.5	
16-20	2.5	
25	4	
32	6	
40	10	

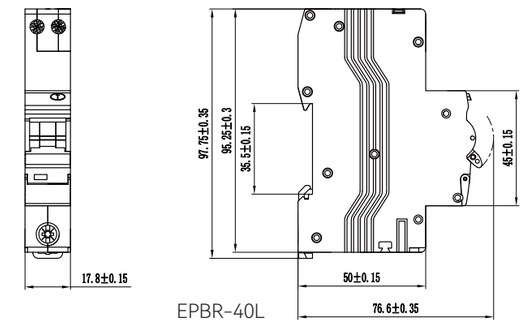
Types

Both RCCBs and RCBOs are devided into types depending on the operating function:
Type AC: For which tripping is ensured for residual sinusoidal alternating currents, whether suddenly applied or slowly rising.
Type A: For which tripping is ensued for residual sinusoidal alternating currents and residual pulsating direct currents, whether suddenly applied or slowly rising.

Tripping sensitivity data

RCD with a rated residual current of maximum 30mA are used for personnel,material and fire protection, as well as for protection against direct contact.
RCD with a rated residual current of maximum 300mA are used as preventative fire protection in case of insulation faults.
RCD with a rated residual current of 100mA co-ordinated with the earth system according to the formula IΔn<50/R, to provide protection again indirect contacts.

Overall and mounting dimensions



EPBR-40L

EPBR-63M/H Series Residual Current Circuit Breakers with Overcurrent Protection

Standard		EN/IEC61009-1
Rated conditional short-circuit current(kA)		6,10
Rated current(A),In		6,10,13,16,20,25,32,40,50,63
Number of poles		1P+N
Rated sensitivity currents(mA),I∆n		10,30,100,300
Tripping curve		B,C
Rated residual non-operating current		0.5XI∆n
Rated impulse withstand voltage Uimp(kV)		4
Rated voltage(V)		AC 230/240
Ambient temperature (℃)		-25~+40,Max.95%humidity
Residual current off time		≤0.1s
Type of trip	Ground fault	Electronic
	Over current	Thermal-magnetic
Electrical endurance		4000
Mechanical endurance		10000
Terminal capacity		10mm² flexible/16mm² rigid
Protection degree		IP20
Installation		35mm DIN rail
Certification		TÜV CE

EPBR-63M

EPBR-63H

EPBR-63M Residual Current Circuit Breakers with Overcurrent Protection

	Rated current(A)	I∆n	Type AC B curve	Type AC C curve	Type A B curve	Type A C curve	Packing unit
 Type AC	6	10mA	EPBR-63M-B6/10	EPBR-63M-C6/10	EPBR-63M-B6/10-A	EPBR-63M-C6/10-A	6
	10		EPBR-63M-B10/10	EPBR-63M-C10/10	EPBR-63M-B10/10-A	EPBR-63M-C10/10-A	
	13		EPBR-63M-B13/10	EPBR-63M-C13/10	EPBR-63M-B13/10-A	EPBR-63M-C13/10-A	
	16		EPBR-63M-B16/10	EPBR-63M-C16/10	EPBR-63M-B16/10-A	EPBR-63M-C16/10-A	
	20		EPBR-63M-B20/10	EPBR-63M-C20/10	EPBR-63M-B20/10-A	EPBR-63M-C20/10-A	
	25		EPBR-63M-B25/10	EPBR-63M-C25/10	EPBR-63M-B25/10-A	EPBR-63M-C25/10-A	
	32		EPBR-63M-B32/10	EPBR-63M-C32/10	EPBR-63M-B32/10-A	EPBR-63M-C32/10-A	
	40		EPBR-63M-B40/10	EPBR-63M-C40/10	EPBR-63M-B40/10-A	EPBR-63M-C40/10-A	
	50		EPBR-63M-B50/10	EPBR-63M-C50/10	EPBR-63M-B50/10-A	EPBR-63M-C50/10-A	
	63		EPBR-63M-B63/10	EPBR-63M-C63/10	EPBR-63M-B63/10-A	EPBR-63M-C63/10-A	
	6	30mA	EPBR-63M-B6/30	EPBR-63M-C6/30	EPBR-63M-B6/30-A	EPBR-63M-C6/30-A	
	10		EPBR-63M-B10/30	EPBR-63M-C10/30	EPBR-63M-B10/30-A	EPBR-63M-C10/30-A	
	13		EPBR-63M-B13/30	EPBR-63M-C13/30	EPBR-63M-B13/30-A	EPBR-63M-C13/30-A	
	16		EPBR-63M-B16/30	EPBR-63M-C16/30	EPBR-63M-B16/30-A	EPBR-63M-C16/30-A	
	20		EPBR-63M-B20/30	EPBR-63M-C20/30	EPBR-63M-B20/30-A	EPBR-63M-C20/30-A	
	25		EPBR-63M-B25/30	EPBR-63M-C25/30	EPBR-63M-B25/30-A	EPBR-63M-C25/30-A	
	32		EPBR-63M-B32/30	EPBR-63M-C32/30	EPBR-63M-B32/30-A	EPBR-63M-C32/30-A	
	40		EPBR-63M-B40/30	EPBR-63M-C40/30	EPBR-63M-B40/30-A	EPBR-63M-C40/30-A	
	50		EPBR-63M-B50/30	EPBR-63M-C50/30	EPBR-63M-B50/30-A	EPBR-63M-C50/30-A	
	63		EPBR-63M-B63/30	EPBR-63M-C63/30	EPBR-63M-B63/30-A	EPBR-63M-C63/30-A	
 Type A	6	100mA	EPBR-63M-B6/100	EPBR-63M-C6/100	EPBR-63M-B6/100-A	EPBR-63M-C6/100-A	
	10		EPBR-63M-B10/100	EPBR-63M-C10/100	EPBR-63M-B10/100-A	EPBR-63M-C10/100-A	
	13		EPBR-63M-B13/100	EPBR-63M-C13/100	EPBR-63M-B13/100-A	EPBR-63M-C13/100-A	
	16		EPBR-63M-B16/100	EPBR-63M-C16/100	EPBR-63M-B16/100-A	EPBR-63M-C16/100-A	
	20		EPBR-63M-B20/100	EPBR-63M-C20/100	EPBR-63M-B20/100-A	EPBR-63M-C20/100-A	
	25		EPBR-63M-B25/100	EPBR-63M-C25/100	EPBR-63M-B25/100-A	EPBR-63M-C25/100-A	
	32		EPBR-63M-B32/100	EPBR-63M-C32/100	EPBR-63M-B32/100-A	EPBR-63M-C32/100-A	
	40		EPBR-63M-B40/100	EPBR-63M-C40/100	EPBR-63M-B40/100-A	EPBR-63M-C40/100-A	
	50		EPBR-63M-B50/100	EPBR-63M-C50/100	EPBR-63M-B50/100-A	EPBR-63M-C50/100-A	
	63		EPBR-63M-B63/100	EPBR-63M-C63/100	EPBR-63M-B63/100-A	EPBR-63M-C63/100-A	
	6	300mA	EPBR-63M-B6/300	EPBR-63M-C6/300	EPBR-63M-B6/300-A	EPBR-63M-C6/300-A	
	10		EPBR-63M-B10/300	EPBR-63M-C10/300	EPBR-63M-B10/300-A	EPBR-63M-C10/300-A	
	13		EPBR-63M-B13/300	EPBR-63M-C13/300	EPBR-63M-B13/300-A	EPBR-63M-C13/300-A	
	16		EPBR-63M-B16/300	EPBR-63M-C16/300	EPBR-63M-B16/300-A	EPBR-63M-C16/300-A	
	20		EPBR-63M-B20/300	EPBR-63M-C20/300	EPBR-63M-B20/300-A	EPBR-63M-C20/300-A	
	25		EPBR-63M-B25/300	EPBR-63M-C25/300	EPBR-63M-B25/300-A	EPBR-63M-C25/300-A	
	32		EPBR-63M-B32/300	EPBR-63M-C32/300	EPBR-63M-B32/300-A	EPBR-63M-C32/300-A	
	40		EPBR-63M-B40/300	EPBR-63M-C40/300	EPBR-63M-B40/300-A	EPBR-63M-C40/300-A	
	50		EPBR-63M-B50/300	EPBR-63M-C50/300	EPBR-63M-B50/300-A	EPBR-63M-C50/300-A	
	63		EPBR-63M-B63/300	EPBR-63M-C63/300	EPBR-63M-B63/300-A	EPBR-63M-C63/300-A	

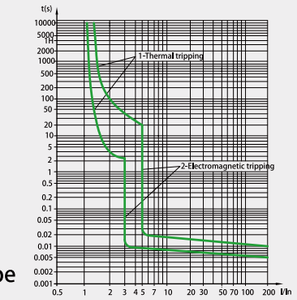
EPBR-63H Residual Current Circuit Breakers with Overcurrent Protection

	Rated current(A)	IΔn	Type AC B curve	Type AC C curve	Type A B curve	Type A C curve	Packing unit
 Type AC	6	10mA	EPBR-63H-B6/10	EPBR-63H-C6/10	EPBR-63H-B6/10-A	EPBR-63H-C6/10-A	6
	10		EPBR-63H-B10/10	EPBR-63H-C10/10	EPBR-63H-B10/10-A	EPBR-63H-C10/10-A	
	13		EPBR-63H-B13/10	EPBR-63H-C13/10	EPBR-63H-B13/10-A	EPBR-63H-C13/10-A	
	16		EPBR-63H-B16/10	EPBR-63H-C16/10	EPBR-63H-B16/10-A	EPBR-63H-C16/10-A	
	20		EPBR-63H-B20/10	EPBR-63H-C20/10	EPBR-63H-B20/10-A	EPBR-63H-C20/10-A	
	25		EPBR-63H-B25/10	EPBR-63H-C25/10	EPBR-63H-B25/10-A	EPBR-63H-C25/10-A	
	32		EPBR-63H-B32/10	EPBR-63H-C32/10	EPBR-63H-B32/10-A	EPBR-63H-C32/10-A	
	40		EPBR-63H-B40/10	EPBR-63H-C40/10	EPBR-63H-B40/10-A	EPBR-63H-C40/10-A	
	50		EPBR-63H-B50/10	EPBR-63H-C50/10	EPBR-63H-B50/10-A	EPBR-63H-C50/10-A	
	63		EPBR-63H-B63/10	EPBR-63H-C63/10	EPBR-63H-B63/10-A	EPBR-63H-C63/10-A	
	6	30mA	EPBR-63H-B6/30	EPBR-63H-C6/30	EPBR-63H-B6/30-A	EPBR-63H-C6/30-A	
	10		EPBR-63H-B10/30	EPBR-63H-C10/30	EPBR-63H-B10/30-A	EPBR-63H-C10/30-A	
	13		EPBR-63H-B13/30	EPBR-63H-C13/30	EPBR-63H-B13/30-A	EPBR-63H-C13/30-A	
	16		EPBR-63H-B16/30	EPBR-63H-C16/30	EPBR-63H-B16/30-A	EPBR-63H-C16/30-A	
	20		EPBR-63H-B20/30	EPBR-63H-C20/30	EPBR-63H-B20/30-A	EPBR-63H-C20/30-A	
	25		EPBR-63H-B25/30	EPBR-63H-C25/30	EPBR-63H-B25/30-A	EPBR-63H-C25/30-A	
	32		EPBR-63H-B32/30	EPBR-63H-C32/30	EPBR-63H-B32/30-A	EPBR-63H-C32/30-A	
	40		EPBR-63H-B40/30	EPBR-63H-C40/30	EPBR-63H-B40/30-A	EPBR-63H-C40/30-A	
	50		EPBR-63H-B50/30	EPBR-63H-C50/30	EPBR-63H-B50/30-A	EPBR-63H-C50/30-A	
	63		EPBR-63H-B63/30	EPBR-63H-C63/30	EPBR-63H-B63/30-A	EPBR-63H-C63/30-A	
 Type A	6	100mA	EPBR-63H-B6/100	EPBR-63H-C6/100	EPBR-63H-B6/100-A	EPBR-63H-C6/100-A	
	10		EPBR-63H-B10/100	EPBR-63H-C10/100	EPBR-63H-B10/100-A	EPBR-63H-C10/100-A	
	13		EPBR-63H-B13/100	EPBR-63H-C13/100	EPBR-63H-B13/100-A	EPBR-63H-C13/100-A	
	16		EPBR-63H-B16/100	EPBR-63H-C16/100	EPBR-63H-B16/100-A	EPBR-63H-C16/100-A	
	20		EPBR-63H-B20/100	EPBR-63H-C20/100	EPBR-63H-B20/100-A	EPBR-63H-C20/100-A	
	25		EPBR-63H-B25/100	EPBR-63H-C25/100	EPBR-63H-B25/100-A	EPBR-63H-C25/100-A	
	32		EPBR-63H-B32/100	EPBR-63H-C32/100	EPBR-63H-B32/100-A	EPBR-63H-C32/100-A	
	40		EPBR-63H-B40/100	EPBR-63H-C40/100	EPBR-63H-B40/100-A	EPBR-63H-C40/100-A	
	50		EPBR-63H-B50/100	EPBR-63H-C50/100	EPBR-63H-B50/100-A	EPBR-63H-C50/100-A	
	63		EPBR-63H-B63/100	EPBR-63H-C63/100	EPBR-63H-B63/100-A	EPBR-63H-C63/100-A	
	6	300mA	EPBR-63H-B6/300	EPBR-63H-C6/300	EPBR-63H-B6/300-A	EPBR-63H-C6/300-A	
	10		EPBR-63H-B10/300	EPBR-63H-C10/300	EPBR-63H-B10/300-A	EPBR-63H-C10/300-A	
	13		EPBR-63H-B13/300	EPBR-63H-C13/300	EPBR-63H-B13/300-A	EPBR-63H-C13/300-A	
	16		EPBR-63H-B16/300	EPBR-63H-C16/300	EPBR-63H-B16/300-A	EPBR-63H-C16/300-A	
	20		EPBR-63H-B20/300	EPBR-63H-C20/300	EPBR-63H-B20/300-A	EPBR-63H-C20/300-A	
	25		EPBR-63H-B25/300	EPBR-63H-C25/300	EPBR-63H-B25/300-A	EPBR-63H-C25/300-A	
	32		EPBR-63H-B32/300	EPBR-63H-C32/300	EPBR-63H-B32/300-A	EPBR-63H-C32/300-A	
	40		EPBR-63H-B40/300	EPBR-63H-C40/300	EPBR-63H-B40/300-A	EPBR-63H-C40/300-A	
	50		EPBR-63H-B50/300	EPBR-63H-C50/300	EPBR-63H-B50/300-A	EPBR-63H-C50/300-A	
	63		EPBR-63H-B63/300	EPBR-63H-C63/300	EPBR-63H-B63/300-A	EPBR-63H-C63/300-A	

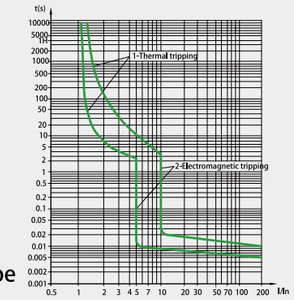
EPBR-63M/H Series Residual Current Circuit Breakers with Overcurrent Protection

Curves

B type



C type



Breaking time of residual current

Max.breaking time					
In(A)	IΔn(A)	IΔn	2 IΔn	5 IΔn	5-500A
6-63	0.01,0.03,0.1,0.3	0.1s	0.08s	0.04s	0.04s

Wiring (The suitable conductors should be used for connection,see table below for relative parameters)

Rated current In (A)	Cross section area s(mm²)	Tightening torque(N.m)
6	1	2.0
10	1.5	
13	1.5	
16-20	2.5	
25	4	
32	6	
40-50	10	
63	16	

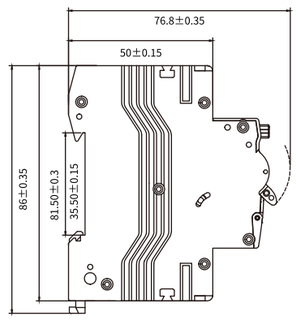
Types

Both RCCBs and RCBOs are devided into types depending on the operating function:
Type AC: For which tripping is ensured for residual sinusoidal alternating currents, whether suddenly applied or slowly rising.
Type A: For which tripping is ensued for residual sinusoidal alternating currents and residual pulsating direct currents, whether suddenly applied or slowly rising.

Tripping sensitivity data

RCD with a rated residual current of maximum 30mA are used for personnel,material and fire protection, as well as for protection against direct contact.
RCD with a rated residual current of maximum 300mA are used as preventative fire protection in case of insulation faults.
RCD with a rated residual current of 100mA co-ordinated with the earth system according to the formula IΔn<50/R, to provide protection again indirect contacts.

Overall and mounting dimensions



EPBR-63M/H

EPMR-40D Series Residual Current Circuit Breakers with Overcurrent Protection

Standard		EN/IEC 61009-1
Rated conditional short-circuit current(kA)		6,10
Rated current(A),In		6,10,13,15,16,20,25,32,40
Number of poles		2P
Rated sensitivity currents(mA),I∆n		30,100,300
Tripping curve		B,C
Rated residual non-operating current		0.5XI∆n
Rated impulse withstand voltage Uimp(kV)		4
Rated voltage(V)		AC 230/240
Ambient temperature (℃)		-25~+40,Max.95%humidity
Residual current off time		≤0.1s
Type of trip	Ground fault	Electro-magnetic
	Over current	Thermal-magnetic
Electrical endurance		4000
Mechanical endurance		10000
Terminal capacity		16mm² flexible/25mm² rigid
Protection degree		IP20
Installation		35mm DIN rail
Leakage type		AC type, A type, A+G type

EPMR-40D

EPMR-40D Series Residual Current Circuit Breakers with Overcurrent Protection

	Rated current(A)	I∆n	Type AC B curve	Type AC C curve	Type A B curve	Type A C curve	Packing unit
 Type AC	6	30mA	EPMR-40D/B6/30	EPMR-40D/C6/30	EPMR-40D/B6/30-A	EPMR-40D/C6/30-A	6
	10		EPMR-40D/B10/30	EPMR-40D/C10/30	EPMR-40D/B10/30-A	EPMR-40D/C10/30-A	
	13		EPMR-40D/B13/30	EPMR-40D/C13/30	EPMR-40D/B13/30-A	EPMR-40D/C13/30-A	
	15		EPMR-40D/B15/30	EPMR-40D/C15/30	EPMR-40D/B15/30-A	EPMR-40D/C15/30-A	
	16		EPMR-40D/B16/30	EPMR-40D/C16/30	EPMR-40D/B16/30-A	EPMR-40D/C16/30-A	
	20		EPMR-40D/B20/30	EPMR-40D/C20/30	EPMR-40D/B20/30-A	EPMR-40D/C20/30-A	
	25		EPMR-40D/B25/30	EPMR-40D/C25/30	EPMR-40D/B25/30-A	EPMR-40D/C25/30-A	
	32		EPMR-40D/B32/30	EPMR-40D/C32/30	EPMR-40D/B32/30-A	EPMR-40D/C32/30-A	
	40		EPMR-40D/B40/30	EPMR-40D/C40/30	EPMR-40D/B40/30-A	EPMR-40D/C40/30-A	
	6	100mA	EPMR-40D/B6/100	EPMR-40D/C6/100	EPMR-40D/B6/100-A	EPMR-40D/C6/100-A	
	10		EPMR-40D/B10/100	EPMR-40D/C10/100	EPMR-40D/B10/100-A	EPMR-40D/C10/100-A	
	13		EPMR-40D/B13/100	EPMR-40D/C13/100	EPMR-40D/B13/100-A	EPMR-40D/C13/100-A	
	15		EPMR-40D/B15/100	EPMR-40D/C15/100	EPMR-40D/B15/100-A	EPMR-40D/C15/100-A	
	16		EPMR-40D/B16/100	EPMR-40D/C16/100	EPMR-40D/B16/100-A	EPMR-40D/C16/100-A	
	20		EPMR-40D/B20/100	EPMR-40D/C20/100	EPMR-40D/B20/100-A	EPMR-40D/C20/100-A	
	25		EPMR-40D/B25/100	EPMR-40D/C25/100	EPMR-40D/B25/100-A	EPMR-40D/C25/100-A	
	32		EPMR-40D/B32/100	EPMR-40D/C32/100	EPMR-40D/B32/100-A	EPMR-40D/C32/100-A	
	40		EPMR-40D/B40/100	EPMR-40D/C40/100	EPMR-40D/B40/100-A	EPMR-40D/C40/100-A	
 Type A	6	300mA	EPMR-40D/B6/300	EPMR-40D/C6/300	EPMR-40D/B6/300-A	EPMR-40D/C6/300-A	
	10		EPMR-40D/B10/300	EPMR-40D/C10/300	EPMR-40D/B10/300-A	EPMR-40D/C10/300-A	
	13		EPMR-40D/B13/300	EPMR-40D/C13/300	EPMR-40D/B13/300-A	EPMR-40D/C13/300-A	
	15		EPMR-40D/B15/300	EPMR-40D/C15/300	EPMR-40D/B15/300-A	EPMR-40D/C15/300-A	
	16		EPMR-40D/B16/300	EPMR-40D/C16/300	EPMR-40D/B16/300-A	EPMR-40D/C16/300-A	
	20		EPMR-40D/B20/300	EPMR-40D/C20/300	EPMR-40D/B20/300-A	EPMR-40D/C20/300-A	
	25		EPMR-40D/B25/300	EPMR-40D/C25/300	EPMR-40D/B25/300-A	EPMR-40D/C25/300-A	
	32		EPMR-40D/B32/300	EPMR-40D/C32/300	EPMR-40D/B32/300-A	EPMR-40D/C32/300-A	
	40		EPMR-40D/B40/300	EPMR-40D/C40/300	EPMR-40D/B40/300-A	EPMR-40D/C40/300-A	

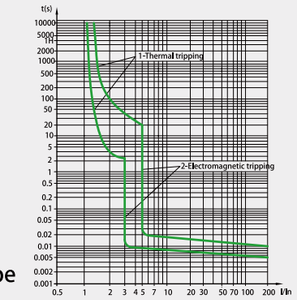
EPMR-40D Series Residual Current Circuit Breakers with Overcurrent Protection

	Rated current(A)	IΔn	Type A+G G		Packing unit
			B curve	C curve	
 Type A+G G	6	30mA	EPMR-40D/B6/30-A+G	EPMR-40D/C6/30-A+G	
	10		EPMR-40D/B10/30-A+G	EPMR-40D/C10/30-A+G	
	13		EPMR-40D/B13/30-A+G	EPMR-40D/C13/30-A+G	
	15		EPMR-40D/B15/30-A+G	EPMR-40D/C15/30-A+G	
	16		EPMR-40D/B16/30-A+G	EPMR-40D/C16/30-A+G	
	20		EPMR-40D/B20/30-A+G	EPMR-40D/C20/30-A+G	
	25		EPMR-40D/B25/30-A+G	EPMR-40D/C25/30-A+G	
	32		EPMR-40D/B32/30-A+G	EPMR-40D/C32/30-A+G	
	40		EPMR-40D/B40/30-A+G	EPMR-40D/C40/30-A+G	
	6	100mA	EPMR-40D/B6/100-A+G	EPMR-40D/C6/100-A+G	6
	10		EPMR-40D/B10/100-A+G	EPMR-40D/C10/100-A+G	
	13		EPMR-40D/B13/100-A+G	EPMR-40D/C13/100-A+G	
	15		EPMR-40D/B15/100-A+G	EPMR-40D/C15/100-A+G	
	16		EPMR-40D/B16/100-A+G	EPMR-40D/C16/100-A+G	
	20		EPMR-40D/B20/100-A+G	EPMR-40D/C20/100-A+G	
	25		EPMR-40D/B25/100-A+G	EPMR-40D/C25/100-A+G	
	32		EPMR-40D/B32/100-A+G	EPMR-40D/C32/100-A+G	
	40		EPMR-40D/B40/100-A+G	EPMR-40D/C40/100-A+G	
	6	300mA	EPMR-40D/B6/300-A+G	EPMR-40D/C6/300-A+G	
	10		EPMR-40D/B10/300-A+G	EPMR-40D/C10/300-A+G	
	13		EPMR-40D/B13/300-A+G	EPMR-40D/C13/300-A+G	
	15		EPMR-40D/B15/300-A+G	EPMR-40D/C15/300-A+G	
	16		EPMR-40D/B16/300-A+G	EPMR-40D/C16/300-A+G	
	20		EPMR-40D/B20/300-A+G	EPMR-40D/C20/300-A+G	
	25		EPMR-40D/B25/300-A+G	EPMR-40D/C25/300-A+G	
	32		EPMR-40D/B32/300-A+G	EPMR-40D/C32/300-A+G	
	40		EPMR-40D/B40/300-A+G	EPMR-40D/C40/300-A+G	

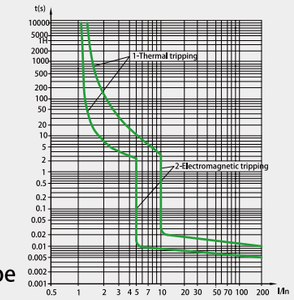
EPMR-40D Series Residual Current Circuit Breakers with Overcurrent Protection

Curves

B type



C type



Breaking time of residual current

Max.breaking time					
In(A)	IΔn(A)	IΔn	2 IΔn	5 IΔn	5-500A
6-40	0.03,0.1,0.3	0.1s	0.08s	0.04s	0.04s

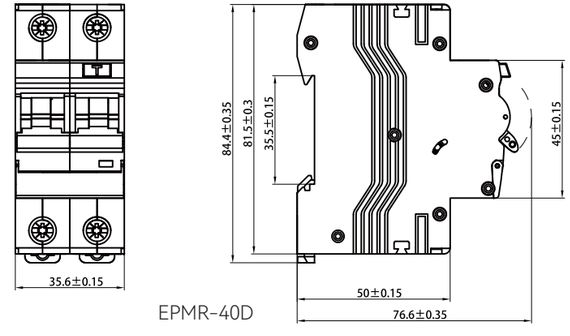
Wiring (The suitable conductors should be used for connection,see table below for relative parameters)

Rated current In (A)	Cross section area s(mm²)	Tightening torque(N.m)
6	1	2.0
10	1.5	
13	1.5	
16-20	2.5	
25	4	
32	6	
40	10	

Types

Type AC ∿: For which tripping is ensured for residual sinusoidal alternating currents, whether suddenly applied or slowly rising.
Type A ⎓: For which tripping is ensued for residual sinusoidal alternating currents and residual pulsating direct currents, whether suddenly applied or slowly rising.
Type G G: RCD with short-term delay, with non-operation time of at least 10 ms.
·Increased resistance to peak currents to 3 kA (8/20 us).
·Upper limit of tripping time is the same as in RCDs for general use - with sensitivity of 30 mA fulfils the conditions of additional protection.
·Limitation of unwanted tripping of RCDs by short current surges (coordination with class II and III surge voltage protectors) etc.
·It is not specified in IEC standards, but resistance to undesirable tripping cannot be guaranteed without it.

Overall and mounting dimensions



EPMR-40D

EPBR-32M/H Series Residual Current Circuit Breakers with Overcurrent Protection

Standard		EN/IEC 61009-1
Rated conditional short-circuit current(kA)		4.5,6
Rated current(A),In		6,10,13,16,20,25,32
Number of poles		1P+N
Rated sensitivity currents(mA),I∆n		10,30,100,300
Tripping curve		B,C
Rated residual non-operating current		0.5XI∆n
Rated impulse withstand voltage Uimp(kV)		4
Rated voltage(V)		AC 230/240
Ambient temperature (°C)		-25~+40,Max.95%humidity
Residual current off time		≤0.1s
Type of trip	Ground fault	Electronic
	Over current	Thermal-magnetic
Electrical endurance		4000
Mechanical endurance		10000
Terminal capacity		10mm² flexible/16mm² rigid
Protection degree		IP20
Installation		35mm DIN rail

EPBR-32M

EPBR-32H

EPBR-32M Residual Current Circuit Breakers with Overcurrent Protection

	Rated current(A)	I∆n	Type AC ~		Type A ~		Packing unit
			B curve	C curve	B curve	C curve	
 Type AC ~	6	10mA	EPBR-32M/B6/10	EPBR-32M/C6/10	EPBR-32M/B6/10-A	EPBR-32M/C6/10-A	12
	10		EPBR-32M/B10/10	EPBR-32M/C10/10	EPBR-32M/B10/10-A	EPBR-32M/C10/10-A	
	13		EPBR-32M/B13/10	EPBR-32M/C13/10	EPBR-32M/B13/10-A	EPBR-32M/C13/10-A	
	16		EPBR-32M/B16/10	EPBR-32M/C16/10	EPBR-32M/B16/10-A	EPBR-32M/C16/10-A	
	20		EPBR-32M/B20/10	EPBR-32M/C20/10	EPBR-32M/B20/10-A	EPBR-32M/C20/10-A	
	25		EPBR-32M/B25/10	EPBR-32M/C25/10	EPBR-32M/B25/10-A	EPBR-32M/C25/10-A	
	32		EPBR-32M/B32/10	EPBR-32M/C32/10	EPBR-32M/B32/10-A	EPBR-32M/C32/10-A	
	6	30mA	EPBR-32M/B6/30	EPBR-32M/C6/30	EPBR-32M/B6/30-A	EPBR-32M/C6/30-A	
	10		EPBR-32M/B10/30	EPBR-32M/C10/30	EPBR-32M/B10/30-A	EPBR-32M/C10/30-A	
	13		EPBR-32M/B13/30	EPBR-32M/C13/30	EPBR-32M/B13/30-A	EPBR-32M/C13/30-A	
	16		EPBR-32M/B16/30	EPBR-32M/C16/30	EPBR-32M/B16/30-A	EPBR-32M/C16/30-A	
	20		EPBR-32M/B20/30	EPBR-32M/C20/30	EPBR-32MB20/30-A	EPBR-32M/C20/30-A	
	25		EPBR-32M/B25/30	EPBR-32M/C25/30	EPBR-32M/B25/30-A	EPBR-32M/C25/30-A	
	32		EPBR-32M/B32/30	EPBR-32M/C32/30	EPBR-32M/B32/30-A	EPBR-32M/C32/30-A	
 Type A ~	6	100mA	EPBR-32M/B6/100	EPBR-32M/C6/100	EPBR-32M/B6/100-A	EPBR-32M/C6/100-A	
	10		EPBR-32M/B10/100	EPBR-32M/C10/100	EPBR-32M/B10/100-A	EPBR-32M/C10/100-A	
	13		EPBR-32M/B13/100	EPBR-32M/C13/100	EPBR-32M/B13/100-A	EPBR-32M/C13/100-A	
	16		EPBR-32M/B16/100	EPBR-32M/C16/100	EPBR-32M/B16/100-A	EPBR-32M/C16/100-A	
	20		EPBR-32M/B20/100	EPBR-32M/C20/100	EPBR-32M/B20/100-A	EPBR-32M/C20/100-A	
	25		EPBR-32M/B25/100	EPBR-32M/C25/100	EPBR-32M/B25/100-A	EPBR-32M/C25/100-A	
	32		EPBR-32M/B32/100	EPBR-32M/C32/100	EPBR-32M/B32/100-A	EPBR-32M/C32/100-A	
	6	300mA	EPBR-32M/B6/300	EPBR-32M/C6/300	EPBR-32M/B6/300-A	EPBR-32M/C6/300-A	
	10		EPBR-32M/B10/300	EPBR-32M/C10/300	EPBR-32M/B10/300-A	EPBR-32M/C10/300-A	
	13		EPBR-32M/B13/300	EPBR-32M/C13/300	EPBR-32M/B13/300-A	EPBR-32M/C13/300-A	
	16		EPBR-32M/B16/300	EPBR-32M/C16/300	EPBR-32M/B16/300-A	EPBR-32M/C16/300-A	
	20		EPBR-32M/B20/300	EPBR-32M/C20/300	EPBR-32M/B20/300-A	EPBR-32M/C20/300-A	
	25		EPBR-32M/B25/300	EPBR-32M/C25/300	EPBR-32M/B25/300-A	EPBR-32M/C25/300-A	
	32		EPBR-32M/B32/300	EPBR-32M/C32/300	EPBR-32M/B32/300-A	EPBR-32M/C32/300-A	

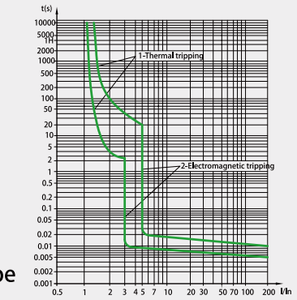
EPBR-32H Residual Current Circuit Breakers with Overcurrent Protection

	Rated current(A)	IΔn	Type AC		Type A		Packing unit
			B curve	C curve	B curve	C curve	
 Type AC	6	10mA	EPBR-32H/B6/10	EPBR-32H/C6/10	EPBR-32H/B6/10-A	EPBR-32H/C6/10-A	12
	10		EPBR-32H/B10/10	EPBR-32H/C10/10	EPBR-32H/B10/10-A	EPBR-32H/C10/10-A	
	13		EPBR-32H/B13/10	EPBR-32H/C13/10	EPBR-32H/B13/10-A	EPBR-32H/C13/10-A	
	16		EPBR-32H/B16/10	EPBR-32H/C16/10	EPBR-32H/B16/10-A	EPBR-32H/C16/10-A	
	20		EPBR-32H/B20/10	EPBR-32H/C20/10	EPBR-32H/B20/10-A	EPBR-32H/C20/10-A	
	25		EPBR-32H/B25/10	EPBR-32H/C25/10	EPBR-32H/B25/10-A	EPBR-32H/C25/10-A	
	32		EPBR-32H/B32/10	EPBR-32H/C32/10	EPBR-32H/B32/10-A	EPBR-32H/C32/10-A	
	6	30mA	EPBR-32H/B6/30	EPBR-32H/C6/30	EPBR-32H/B6/30-A	EPBR-32H/C6/30-A	
	10		EPBR-32H/B10/30	EPBR-32H/C10/30	EPBR-32H/B10/30-A	EPBR-32H/C10/30-A	
	13		EPBR-32H/B13/30	EPBR-32H/C13/30	EPBR-32H/B13/30-A	EPBR-32H/C13/30-A	
	16		EPBR-32H/B16/30	EPBR-32H/C16/30	EPBR-32H/B16/30-A	EPBR-32H/C16/30-A	
	20		EPBR-32H/B20/30	EPBR-32H/C20/30	EPBR-32H/B20/30-A	EPBR-32H/C20/30-A	
	25		EPBR-32H/B25/30	EPBR-32H/C25/30	EPBR-32H/B25/30-A	EPBR-32H/C25/30-A	
	32		EPBR-32H/B32/30	EPBR-32H/C32/30	EPBR-32H/B32/30-A	EPBR-32H/C32/30-A	
 Type A	6	100mA	EPBR-32H/B6/100	EPBR-32H/C6/100	EPBR-32H/B6/100-A	EPBR-32H/C6/100-A	
	10		EPBR-32H/B10/100	EPBR-32H/C10/100	EPBR-32H/B10/100-A	EPBR-32H/C10/100-A	
	13		EPBR-32H/B13/100	EPBR-32H/C13/100	EPBR-32H/B13/100-A	EPBR-32H/C13/100-A	
	16		EPBR-32H/B16/100	EPBR-32H/C16/100	EPBR-32H/B16/100-A	EPBR-32H/C16/100-A	
	20		EPBR-32H/B20/100	EPBR-32H/C20/100	EPBR-32H/B20/100-A	EPBR-32H/C20/100-A	
	25		EPBR-32H/B25/100	EPBR-32H/C25/100	EPBR-32H/B25/100-A	EPBR-32H/C25/100-A	
	32		EPBR-32H/B32/100	EPBR-32H/C32/100	EPBR-32H/B32/100-A	EPBR-32H/C32/100-A	
	6	300mA	EPBR-32H/B6/300	EPBR-32H/C6/300	EPBR-32H/B6/300-A	EPBR-32H/C6/300-A	
	10		EPBR-32H/B10/300	EPBR-32H/C10/300	EPBR-32H/B10/300-A	EPBR-32H/C10/300-A	
	13		EPBR-32H/B13/300	EPBR-32H/C13/300	EPBR-32H/B13/300-A	EPBR-32H/C13/300-A	
	16		EPBR-32H/B16/300	EPBR-32H/C16/300	EPBR-32H/B16/300-A	EPBR-32H/C16/300-A	
	20		EPBR-32H/B20/300	EPBR-32H/C20/300	EPBR-32H/B20/300-A	EPBR-32H/C20/300-A	
	25		EPBR-32H/B25/300	EPBR-32H/C25/300	EPBR-32H/B25/300-A	EPBR-32H/C25/300-A	
	32		EPBR-32H/B32/300	EPBR-32H/C32/300	EPBR-32H/B32/300-A	EPBR-32H/C32/300-A	

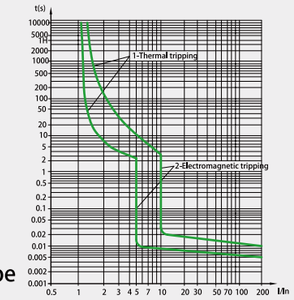
EPBR-32M/H Series Residual Current Circuit Breakers with Overcurrent Protection

Curves

B type



C type



Breaking time of residual current

In(A)	IΔn(A)	Max.breaking time			
		IΔn	2 IΔn	5 IΔn	5A-500A
6-32	0.01,0.03,0.1,0.3	0.1s	0.08s	0.04s	0.04s

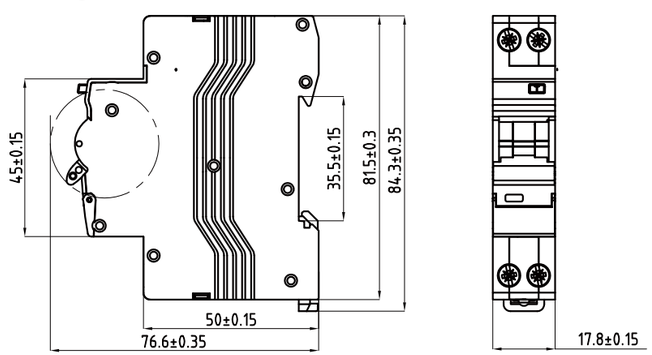
Wiring (The suitable conductors should be used for connection,see table below for relative parameters)

Rated current In (A)	Cross section area s(mm²)	Tightening torque(N.m)
6	1	1.2
10	1.5	
16-20	2.5	
25	4	
32	6	

Features

Switching and isolation function.
Protection against overload and short-circuit currents.
Protection against the effects of sinusoidal alternating earth fault currents.
Protection against indirect contacts and additional protection against direct contacts.
Protection against fire hazard caused by insulation faults.
Used in residential building and distribution boards.

Overall and mounting dimensions



EPBR-32M/H

EPRM-63LE Series Residual Current Circuit Breakers with Overcurrent Protection

Standard		EN/IEC 61009-1
Rated conditional short-circuit current(kA)		6,10
Rated current(A),In		6,10,16,20,25,32,40,50,63
Number of poles		1P+N,2P,3P,3P+N,4P
Rated sensitivity currents(mA),I∆n		10,30,100,300
Tripping curve		B,C,D
Rated residual non-operating current		0.5XI∆n
Rated impulse withstand voltage Uimp(kV)		4
Rated voltage(V)		1P+N, 2P: AC 230;3P, 3P+N, 4P:AC 400
Ambient temperature (°C)		-25~+40,Max.95%humidity
Residual current off time		≤0.1s
Type of trip	Ground fault	Electronic
	Over current	Thermal-magnetic
Electrical endurance		4000
Mechanical endurance		10000
Terminal capacity		16mm² flexible/25mm² rigid
Protection degree		IP20
Installation		35mm DIN rail
Certification		TÜV CE CB

EPRH-63LE-1P+N

EPRH-63LE-2P

EPRH-63LE-3P

EPRH-63LE-4P

EPRM-63LE Series Residual Current Circuit Breakers with Overcurrent Protection

	Rated current(A)	I∆n	Type AC ~ B curve	Type AC ~ C curve	Type AC ~ D curve	Packing unit
 Type AC ~	6	10mA	EPRM-63LE-1-B6N/10	EPRM-63LE-1-C6N/10	EPRM-63LE-1-D6N/10	1
	10		EPRM-63LE-1-B10N/10	EPRM-63LE-1-C10N/10	EPRM-63LE-1-D10N/10	
	16		EPRM-63LE-1-B16N/10	EPRM-63LE-1-C16N/10	EPRM-63LE-1-D16N/10	
	20		EPRM-63LE-1-B20N/10	EPRM-63LE-1-C20N/10	EPRM-63LE-1-D20N/10	
	25		EPRM-63LE-1-B25N/10	EPRM-63LE-1-C25N/10	EPRM-63LE-1-D25N/10	
	32		EPRM-63LE-1-B32N/10	EPRM-63LE-1-C32N/10	EPRM-63LE-1-D32N/10	
	40		EPRM-63LE-1-B40N/10	EPRM-63LE-1-C40N/10	EPRM-63LE-1-D40N/10	
	50		EPRM-63LE-1-B50N/10	EPRM-63LE-1-C50N/10	EPRM-63LE-1-D50N/10	
	63		EPRM-63LE-1-B63N/10	EPRM-63LE-1-C63N/10	EPRM-63LE-1-D63N/10	
	6	30mA	EPRM-63LE-1-B6N/30	EPRM-63LE-1-C6N/30	EPRM-63LE-1-D6N/30	
	10		EPRM-63LE-1-B10N/30	EPRM-63LE-1-C10N/30	EPRM-63LE-1-D10N/30	
	16		EPRM-63LE-1-B16N/30	EPRM-63LE-1-C16N/30	EPRM-63LE-1-D16N/30	
	20		EPRM-63LE-1-B20N/30	EPRM-63LE-1-C20N/30	EPRM-63LE-1-D20N/30	
	25		EPRM-63LE-1-B25N/30	EPRM-63LE-1-C25N/30	EPRM-63LE-1-D25N/30	
	32		EPRM-63LE-1-B32N/30	EPRM-63LE-1-C32N/30	EPRM-63LE-1-D32N/30	
	40		EPRM-63LE-1-B40N/30	EPRM-63LE-1-C40N/30	EPRM-63LE-1-D40N/30	
	50		EPRM-63LE-1-B50N/30	EPRM-63LE-1-C50N/30	EPRM-63LE-1-D50N/30	
	63		EPRM-63LE-1-B63N/30	EPRM-63LE-1-C63N/30	EPRM-63LE-1-D63N/30	
	6	100mA	EPRM-63LE-1-B6N/100	EPRM-63LE-1-C6N/100	EPRM-63LE-1-D6N/100	
	10		EPRM-63LE-1-B10N/100	EPRM-63LE-1-C10N/100	EPRM-63LE-1-D10N/100	
	16		EPRM-63LE-1-B16N/100	EPRM-63LE-1-C16N/100	EPRM-63LE-1-D16N/100	
	20		EPRM-63LE-1-B20N/100	EPRM-63LE-1-C20N/100	EPRM-63LE-1-D20N/100	
	25		EPRM-63LE-1-B25N/100	EPRM-63LE-1-C25N/100	EPRM-63LE-1-D25N/100	
	32		EPRM-63LE-1-B32N/100	EPRM-63LE-1-C32N/100	EPRM-63LE-1-D32N/100	
	40		EPRM-63LE-1-B40N/100	EPRM-63LE-1-C40N/100	EPRM-63LE-1-D40N/100	
	50		EPRM-63LE-1-B50N/100	EPRM-63LE-1-C50N/100	EPRM-63LE-1-D50N/100	
	63		EPRM-63LE-1-B63N/100	EPRM-63LE-1-C63N/100	EPRM-63LE-1-D63N/100	
	6	300mA	EPRM-63LE-1-B6N/300	EPRM-63LE-1-C6N/300	EPRM-63LE-1-D6N/300	
	10		EPRM-63LE-1-B10N/300	EPRM-63LE-1-C10N/300	EPRM-63LE-1-D10N/300	
	16		EPRM-63LE-1-B16N/300	EPRM-63LE-1-C16N/300	EPRM-63LE-1-D16N/300	
	20		EPRM-63LE-1-B20N/300	EPRM-63LE-1-C20N/300	EPRM-63LE-1-D20N/300	
	25		EPRM-63LE-1-B25N/300	EPRM-63LE-1-C25N/300	EPRM-63LE-1-D25N/300	
	32		EPRM-63LE-1-B32N/300	EPRM-63LE-1-C32N/300	EPRM-63LE-1-D32N/300	
	40		EPRM-63LE-1-B40N/300	EPRM-63LE-1-C40N/300	EPRM-63LE-1-D40N/300	
	50		EPRM-63LE-1-B50N/300	EPRM-63LE-1-C50N/300	EPRM-63LE-1-D50N/300	
	63		EPRM-63LE-1-B63N/300	EPRM-63LE-1-C63N/300	EPRM-63LE-1-D63N/300	

EPRM-63LE Series Residual Current Circuit Breakers with Overcurrent Protection

	Rated current(A)	IΔn	Type AC			Packing unit
			B curve	C curve	D curve	
	6	10mA	EPRM-63LE-2-B6/10	EPRM-63LE-2-C6/10	EPRM-63LE-2-D6/10	1
	10		EPRM-63LE-2-B10/10	EPRM-63LE-2-C10/10	EPRM-63LE-2-D10/10	
	16		EPRM-63LE-2-B16/10	EPRM-63LE-2-C16/10	EPRM-63LE-2-D16/10	
	20		EPRM-63LE-2-B20/10	EPRM-63LE-2-C20/10	EPRM-63LE-2-D20/10	
	25		EPRM-63LE-2-B25/10	EPRM-63LE-2-C25/10	EPRM-63LE-2-D25/10	
	32		EPRM-63LE-2-B32/10	EPRM-63LE-2-C32/10	EPRM-63LE-2-D32/10	
	40		EPRM-63LE-2-B40/10	EPRM-63LE-2-C40/10	EPRM-63LE-2-D40/10	
	50		EPRM-63LE-2-B50/10	EPRM-63LE-2-C50/10	EPRM-63LE-2-D50/10	
	63		EPRM-63LE-2-B63/10	EPRM-63LE-2-C63/10	EPRM-63LE-2-D63/10	
	6	30mA	EPRM-63LE-2-B6/30	EPRM-63LE-2-C6/30	EPRM-63LE-2-D6/30	
	10		EPRM-63LE-2-B10/30	EPRM-63LE-2-C10/30	EPRM-63LE-2-D10/30	
	16		EPRM-63LE-2-B16/30	EPRM-63LE-2-C16/30	EPRM-63LE-2-D16/30	
	20		EPRM-63LE-2-B20/30	EPRM-63LE-2-C20/30	EPRM-63LE-2-D20/30	
	25		EPRM-63LE-2-B25/30	EPRM-63LE-2-C25/30	EPRM-63LE-2-D25/30	
	32		EPRM-63LE-2-B32/30	EPRM-63LE-2-C32/30	EPRM-63LE-2-D32/30	
	40		EPRM-63LE-2-B40/30	EPRM-63LE-2-C40/30	EPRM-63LE-2-D40/30	
	50		EPRM-63LE-2-B50/30	EPRM-63LE-2-C50/30	EPRM-63LE-2-D50/30	
	63		EPRM-63LE-2-B63/30	EPRM-63LE-2-C63/30	EPRM-63LE-2-D63/30	
	6	100mA	EPRM-63LE-2-B6/100	EPRM-63LE-2-C6/100	EPRM-63LE-2-D6/100	
	10		EPRM-63LE-2-B10/100	EPRM-63LE-2-C10/100	EPRM-63LE-2-D10/100	
	16		EPRM-63LE-2-B16/100	EPRM-63LE-2-C16/100	EPRM-63LE-2-D16/100	
	20		EPRM-63LE-2-B20/100	EPRM-63LE-2-C20/100	EPRM-63LE-2-D20/100	
	25		EPRM-63LE-2-B25/100	EPRM-63LE-2-C25/100	EPRM-63LE-2-D25/100	
	32		EPRM-63LE-2-B32/100	EPRM-63LE-2-C32/100	EPRM-63LE-2-D32/100	
	40		EPRM-63LE-2-B40/100	EPRM-63LE-2-C40/100	EPRM-63LE-2-D40/100	
	50		EPRM-63LE-2-B50/100	EPRM-63LE-2-C50/100	EPRM-63LE-2-D50/100	
	63		EPRM-63LE-2-B63/100	EPRM-63LE-2-C63/100	EPRM-63LE-2-D63/100	
	6	300mA	EPRM-63LE-2-B6/300	EPRM-63LE-2-C6/300	EPRM-63LE-2-D6/300	
	10		EPRM-63LE-2-B10/300	EPRM-63LE-2-C10/300	EPRM-63LE-2-D10/300	
	16		EPRM-63LE-2-B16/300	EPRM-63LE-2-C16/300	EPRM-63LE-2-D16/300	
	20		EPRM-63LE-2-B20/300	EPRM-63LE-2-C20/300	EPRM-63LE-2-D20/300	
	25		EPRM-63LE-2-B25/300	EPRM-63LE-2-C25/300	EPRM-63LE-2-D25/300	
	32		EPRM-63LE-2-B32/300	EPRM-63LE-2-C32/300	EPRM-63LE-2-D32/300	
	40		EPRM-63LE-2-B40/300	EPRM-63LE-2-C40/300	EPRM-63LE-2-D40/300	
	50		EPRM-63LE-2-B50/300	EPRM-63LE-2-C50/300	EPRM-63LE-2-D50/300	
	63		EPRM-63LE-2-B63/300	EPRM-63LE-2-C63/300	EPRM-63LE-2-D63/300	

Type AC

EPRM-63LE Series Residual Current Circuit Breakers with Overcurrent Protection

	Rated current(A)	IΔn	Type AC			Packing unit
			B curve	C curve	D curve	
	6	10mA	EPRM-63LE-3-B6/10	EPRM-63LE-3-C6/10	EPRM-63LE-3-D6/10	1
	10		EPRM-63LE-3-B10/10	EPRM-63LE-3-C10/10	EPRM-63LE-3-D10/10	
	16		EPRM-63LE-3-B16/10	EPRM-63LE-3-C16/10	EPRM-63LE-3-D16/10	
	20		EPRM-63LE-3-B20/10	EPRM-63LE-3-C20/10	EPRM-63LE-3-D20/10	
	25		EPRM-63LE-3-B25/10	EPRM-63LE-3-C25/10	EPRM-63LE-3-D25/10	
	32		EPRM-63LE-3-B32/10	EPRM-63LE-3-C32/10	EPRM-63LE-3-D32/10	
	40		EPRM-63LE-3-B40/10	EPRM-63LE-3-C40/10	EPRM-63LE-3-D40/10	
	50		EPRM-63LE-3-B50/10	EPRM-63LE-3-C50/10	EPRM-63LE-3-D50/10	
	63		EPRM-63LE-3-B63/10	EPRM-63LE-3-C63/10	EPRM-63LE-3-D63/10	
	6	30mA	EPRM-63LE-3-B6/30	EPRM-63LE-3-C6/30	EPRM-63LE-3-D6/30	
	10		EPRM-63LE-3-B10/30	EPRM-63LE-3-C10/30	EPRM-63LE-3-D10/30	
	16		EPRM-63LE-3-B16/30	EPRM-63LE-3-C16/30	EPRM-63LE-3-D16/30	
	20		EPRM-63LE-3-B20/30	EPRM-63LE-3-C20/30	EPRM-63LE-3-D20/30	
	25		EPRM-63LE-3-B25/30	EPRM-63LE-3-C25/30	EPRM-63LE-3-D25/30	
	32		EPRM-63LE-3-B32/30	EPRM-63LE-3-C32/30	EPRM-63LE-3-D32/30	
	40		EPRM-63LE-3-B40/30	EPRM-63LE-3-C40/30	EPRM-63LE-3-D40/30	
	50		EPRM-63LE-3-B50/30	EPRM-63LE-3-C50/30	EPRM-63LE-3-D50/30	
	63		EPRM-63LE-3-B63/30	EPRM-63LE-3-C63/30	EPRM-63LE-3-D63/30	
	6	100mA	EPRM-63LE-3-B6/100	EPRM-63LE-3-C6/100	EPRM-63LE-3-D6/100	
	10		EPRM-63LE-3-B10/100	EPRM-63LE-3-C10/100	EPRM-63LE-3-D10/100	
	16		EPRM-63LE-3-B16/100	EPRM-63LE-3-C16/100	EPRM-63LE-3-D16/100	
	20		EPRM-63LE-3-B20/100	EPRM-63LE-3-C20/100	EPRM-63LE-3-D20/100	
	25		EPRM-63LE-3-B25/100	EPRM-63LE-3-C25/100	EPRM-63LE-3-D25/100	
	32		EPRM-63LE-3-B32/100	EPRM-63LE-3-C32/100	EPRM-63LE-3-D32/100	
	40		EPRM-63LE-3-B40/100	EPRM-63LE-3-C40/100	EPRM-63LE-3-D40/100	
	50		EPRM-63LE-3-B50/100	EPRM-63LE-3-C50/100	EPRM-63LE-3-D50/100	
	63		EPRM-63LE-3-B63/100	EPRM-63LE-3-C63/100	EPRM-63LE-3-D63/100	
	6	300mA	EPRM-63LE-3-B6/300	EPRM-63LE-3-C6/300	EPRM-63LE-3-D6/300	
	10		EPRM-63LE-3-B10/300	EPRM-63LE-3-C10/300	EPRM-63LE-3-D10/300	
	16		EPRM-63LE-3-B16/300	EPRM-63LE-3-C16/300	EPRM-63LE-3-D16/300	
	20		EPRM-63LE-3-B20/300	EPRM-63LE-3-C20/300	EPRM-63LE-3-D20/300	
	25		EPRM-63LE-3-B25/300	EPRM-63LE-3-C25/300	EPRM-63LE-3-D25/300	
	32		EPRM-63LE-3-B32/300	EPRM-63LE-3-C32/300	EPRM-63LE-3-D32/300	
	40		EPRM-63LE-3-B40/300	EPRM-63LE-3-C40/300	EPRM-63LE-3-D40/300	
	50		EPRM-63LE-3-B50/300	EPRM-63LE-3-C50/300	EPRM-63LE-3-D50/300	
	63		EPRM-63LE-3-B63/300	EPRM-63LE-3-C63/300	EPRM-63LE-3-D63/300	

Type AC

EPRM-63LE Series Residual Current Circuit Breakers with Overcurrent Protection

	Rated current(A)	IΔn	Type AC			Packing unit
			B curve	C curve	D curve	
	6	10mA	EPRM-63LE-3-B6N/10	EPRM-63LE-3-C6N/10	EPRM-63LE-3-D6N/10	1
	10		EPRM-63LE-3-B10N/10	EPRM-63LE-3-C10N/10	EPRM-63LE-3-D10N/10	
	16		EPRM-63LE-3-B16N/10	EPRM-63LE-3-C16N/10	EPRM-63LE-3-D16N/10	
	20		EPRM-63LE-3-B20N/10	EPRM-63LE-3-C20N/10	EPRM-63LE-3-D20N/10	
	25		EPRM-63LE-3-B25N/10	EPRM-63LE-3-C25N/10	EPRM-63LE-3-D25N/10	
	32		EPRM-63LE-3-B32N/10	EPRM-63LE-3-C32N/10	EPRM-63LE-3-D32N/10	
	40		EPRM-63LE-3-B40N/10	EPRM-63LE-3-C40N/10	EPRM-63LE-3-D40N/10	
	50		EPRM-63LE-3-B50N/10	EPRM-63LE-3-C50N/10	EPRM-63LE-3-D50N/10	
	63		EPRM-63LE-3-B63N/10	EPRM-63LE-3-C63N/10	EPRM-63LE-3-D63N/10	
	6	30mA	EPRM-63LE-3-B6N/30	EPRM-63LE-3-C6N/30	EPRM-63LE-3-D6N/30	
	10		EPRM-63LE-3-B10N/30	EPRM-63LE-3-C10N/30	EPRM-63LE-3-D10N/30	
	16		EPRM-63LE-3-B16N/30	EPRM-63LE-3-C16N/30	EPRM-63LE-3-D16N/30	
	20		EPRM-63LE-3-B20N/30	EPRM-63LE-3-C20N/30	EPRM-63LE-3-D20N/30	
	25		EPRM-63LE-3-B25N/30	EPRM-63LE-3-C25N/30	EPRM-63LE-3-D25N/30	
	32		EPRM-63LE-3-B32N/30	EPRM-63LE-3-C32N/30	EPRM-63LE-3-D32N/30	
	40		EPRM-63LE-3-B40N/30	EPRM-63LE-3-C40N/30	EPRM-63LE-3-D40N/30	
	50		EPRM-63LE-3-B50N/30	EPRM-63LE-3-C50N/30	EPRM-63LE-3-D50N/30	
	63		EPRM-63LE-3-B63N/30	EPRM-63LE-3-C63N/30	EPRM-63LE-3-D63N/30	
	6	100mA	EPRM-63LE-3-B6N/100	EPRM-63LE-3-C6N/100	EPRM-63LE-3-D6N/100	
	10		EPRM-63LE-3-B10N/100	EPRM-63LE-3-C10N/100	EPRM-63LE-3-D10N/100	
	16		EPRM-63LE-3-B16N/100	EPRM-63LE-3-C16N/100	EPRM-63LE-3-D16N/100	
	20		EPRM-63LE-3-B20N/100	EPRM-63LE-3-C20N/100	EPRM-63LE-3-D20N/100	
	25		EPRM-63LE-3-B25N/100	EPRM-63LE-3-C25N/100	EPRM-63LE-3-D25N/100	
	32		EPRM-63LE-3-B32N/100	EPRM-63LE-3-C32N/100	EPRM-63LE-3-D32N/100	
	40		EPRM-63LE-3-B40N/100	EPRM-63LE-3-C40N/100	EPRM-63LE-3-D40N/100	
	50		EPRM-63LE-3-B50N/100	EPRM-63LE-3-C50N/100	EPRM-63LE-3-D50N/100	
	63		EPRM-63LE-3-B63N/100	EPRM-63LE-3-C63N/100	EPRM-63LE-3-D63N/100	
	6	300mA	EPRM-63LE-3-B6N/300	EPRM-63LE-3-C6N/300	EPRM-63LE-3-D6N/300	
	10		EPRM-63LE-3-B10N/300	EPRM-63LE-3-C10N/300	EPRM-63LE-3-D10N/300	
	16		EPRM-63LE-3-B16N/300	EPRM-63LE-3-C16N/300	EPRM-63LE-3-D16N/300	
	20		EPRM-63LE-3-B20N/300	EPRM-63LE-3-C20N/300	EPRM-63LE-3-D20N/300	
	25		EPRM-63LE-3-B25N/300	EPRM-63LE-3-C25N/300	EPRM-63LE-3-D25N/300	
	32		EPRM-63LE-3-B32N/300	EPRM-63LE-3-C32N/300	EPRM-63LE-3-D32N/300	
	40		EPRM-63LE-3-B40N/300	EPRM-63LE-3-C40N/300	EPRM-63LE-3-D40N/300	
	50		EPRM-63LE-3-B50N/300	EPRM-63LE-3-C50N/300	EPRM-63LE-3-D50N/300	
	63		EPRM-63LE-3-B63N/300	EPRM-63LE-3-C63N/300	EPRM-63LE-3-D63N/300	

Type AC

EPRM-63LE Series Residual Current Circuit Breakers with Overcurrent Protection

	Rated current(A)	IΔn	Type AC			Packing unit
			B curve	C curve	D curve	
	6	10mA	EPRM-63LE-4-B6/10	EPRM-63LE-4-C6/10	EPRM-63LE-4-D6/10	1
	10		EPRM-63LE-4-B10/10	EPRM-63LE-4-C10/10	EPRM-63LE-4-D10/10	
	16		EPRM-63LE-4-B16/10	EPRM-63LE-4-C16/10	EPRM-63LE-4-D16/10	
	20		EPRM-63LE-4-B20/10	EPRM-63LE-4-C20/10	EPRM-63LE-4-D20/10	
	25		EPRM-63LE-4-B25/10	EPRM-63LE-4-C25/10	EPRM-63LE-4-D25/10	
	32		EPRM-63LE-4-B32/10	EPRM-63LE-4-C32/10	EPRM-63LE-4-D32/10	
	40		EPRM-63LE-4-B40/10	EPRM-63LE-4-C40/10	EPRM-63LE-4-D40/10	
	50		EPRM-63LE-4-B50/10	EPRM-63LE-4-C50/10	EPRM-63LE-4-D50/10	
	63		EPRM-63LE-4-B63/10	EPRM-63LE-4-C63/10	EPRM-63LE-4-D63/10	
	6	30mA	EPRM-63LE-4-B6/30	EPRM-63LE-4-C6/30	EPRM-63LE-4-D6/30	
	10		EPRM-63LE-4-B10/30	EPRM-63LE-4-C10/30	EPRM-63LE-4-D10/30	
	16		EPRM-63LE-4-B16/30	EPRM-63LE-4-C16/30	EPRM-63LE-4-D16/30	
	20		EPRM-63LE-4-B20/30	EPRM-63LE-4-C20/30	EPRM-63LE-4-D20/30	
	25		EPRM-63LE-4-B25/30	EPRM-63LE-4-C25/30	EPRM-63LE-4-D25/30	
	32		EPRM-63LE-4-B32/30	EPRM-63LE-4-C32/30	EPRM-63LE-4-D32/30	
	40		EPRM-63LE-4-B40/30	EPRM-63LE-4-C40/30	EPRM-63LE-4-D40/30	
	50		EPRM-63LE-4-B50/30	EPRM-63LE-4-C50/30	EPRM-63LE-4-D50/30	
	63		EPRM-63LE-4-B63/30	EPRM-63LE-4-C63/30	EPRM-63LE-4-D63/30	
	6	100mA	EPRM-63LE-4-B6/100	EPRM-63LE-4-C6/100	EPRM-63LE-4-D6/100	
	10		EPRM-63LE-4-B10/100	EPRM-63LE-4-C10/100	EPRM-63LE-4-D10/100	
	16		EPRM-63LE-4-B16/100	EPRM-63LE-4-C16/100	EPRM-63LE-4-D16/100	
	20		EPRM-63LE-4-B20/100	EPRM-63LE-4-C20/100	EPRM-63LE-4-D20/100	
	25		EPRM-63LE-4-B25/100	EPRM-63LE-4-C25/100	EPRM-63LE-4-D25/100	
	32		EPRM-63LE-4-B32/100	EPRM-63LE-4-C32/100	EPRM-63LE-4-D32/100	
	40		EPRM-63LE-4-B40/100	EPRM-63LE-4-C40/100	EPRM-63LE-4-D40/100	
	50		EPRM-63LE-4-B50/100	EPRM-63LE-4-C50/100	EPRM-63LE-4-D50/100	
	63		EPRM-63LE-4-B63/100	EPRM-63LE-4-C63/100	EPRM-63LE-4-D63/100	
	6	300mA	EPRM-63LE-4-B6/300	EPRM-63LE-4-C6/300	EPRM-63LE-4-D6/300	
	10		EPRM-63LE-4-B10/300	EPRM-63LE-4-C10/300	EPRM-63LE-4-D10/300	
	16		EPRM-63LE-4-B16/300	EPRM-63LE-4-C16/300	EPRM-63LE-4-D16/300	
	20		EPRM-63LE-4-B20/300	EPRM-63LE-4-C20/300	EPRM-63LE-4-D20/300	
	25		EPRM-63LE-4-B25/300	EPRM-63LE-4-C25/300	EPRM-63LE-4-D25/300	
	32		EPRM-63LE-4-B32/300	EPRM-63LE-4-C32/300	EPRM-63LE-4-D32/300	
	40		EPRM-63LE-4-B40/300	EPRM-63LE-4-C40/300	EPRM-63LE-4-D40/300	
	50		EPRM-63LE-4-B50/300	EPRM-63LE-4-C50/300	EPRM-63LE-4-D50/300	
	63		EPRM-63LE-4-B63/300	EPRM-63LE-4-C63/300	EPRM-63LE-4-D63/300	

Type AC

EPRM-63LE Series Residual Current Circuit Breakers with Overcurrent Protection

	Rated current(A)	IΔn	Type A			Packing unit
			B curve	C curve	D curve	
	6	10mA	EPRM-63LE-1-B6N/10-A	EPRM-63LE-1-C6N/10-A	EPRM-63LE-1-D6N/10-A	
	10		EPRM-63LE-1-B10N/10-A	EPRM-63LE-1-C10N/10-A	EPRM-63LE-1-D10N/10-A	
	16		EPRM-63LE-1-B16N/10-A	EPRM-63LE-1-C16N/10-A	EPRM-63LE-1-D16N/10-A	
	20		EPRM-63LE-1-B20N/10-A	EPRM-63LE-1-C20N/10-A	EPRM-63LE-1-D20N/10-A	
	25		EPRM-63LE-1-B25N/10-A	EPRM-63LE-1-C25N/10-A	EPRM-63LE-1-D25N/10-A	
	32		EPRM-63LE-1-B32N/10-A	EPRM-63LE-1-C32N/10-A	EPRM-63LE-1-D32N/10-A	
	40		EPRM-63LE-1-B40N/10-A	EPRM-63LE-1-C40N/10-A	EPRM-63LE-1-D40N/10-A	
	50		EPRM-63LE-1-B50N/10-A	EPRM-63LE-1-C50N/10-A	EPRM-63LE-1-D50N/10-A	
	63		EPRM-63LE-1-B63N/10-A	EPRM-63LE-1-C63N/10-A	EPRM-63LE-1-D63N/10-A	
	6	30mA	EPRM-63LE-1-B6N/30-A	EPRM-63LE-1-C6N/30-A	EPRM-63LE-1-D6N/30-A	
	10		EPRM-63LE-1-B10N/30-A	EPRM-63LE-1-C10N/30-A	EPRM-63LE-1-D10N/30-A	
	16		EPRM-63LE-1-B16N/30-A	EPRM-63LE-1-C16N/30-A	EPRM-63LE-1-D16N/30-A	
	20		EPRM-63LE-1-B20N/30-A	EPRM-63LE-1-C20N/30-A	EPRM-63LE-1-D20N/30-A	
	25		EPRM-63LE-1-B25N/30-A	EPRM-63LE-1-C25N/30-A	EPRM-63LE-1-D25N/30-A	
	32		EPRM-63LE-1-B32N/30-A	EPRM-63LE-1-C32N/30-A	EPRM-63LE-1-D32N/30-A	
	40		EPRM-63LE-1-B40N/30-A	EPRM-63LE-1-C40N/30-A	EPRM-63LE-1-D40N/30-A	
	50		EPRM-63LE-1-B50N/30-A	EPRM-63LE-1-C50N/30-A	EPRM-63LE-1-D50N/30-A	
	63		EPRM-63LE-1-B63N/30-A	EPRM-63LE-1-C63N/30-A	EPRM-63LE-1-D63N/30-A	
 Type A	6	100mA	EPRM-63LE-1-B6N/100-A	EPRM-63LE-1-C6N/100-A	EPRM-63LE-1-D6N/100-A	1
	10		EPRM-63LE-1-B10N/100-A	EPRM-63LE-1-C10N/100-A	EPRM-63LE-1-D10N/100-A	
	16		EPRM-63LE-1-B16N/100-A	EPRM-63LE-1-C16N/100-A	EPRM-63LE-1-D16N/100-A	
	20		EPRM-63LE-1-B20N/100-A	EPRM-63LE-1-C20N/100-A	EPRM-63LE-1-D20N/100-A	
	25		EPRM-63LE-1-B25N/100-A	EPRM-63LE-1-C25N/100-A	EPRM-63LE-1-D25N/100-A	
	32		EPRM-63LE-1-B32N/100-A	EPRM-63LE-1-C32N/100-A	EPRM-63LE-1-D32N/100-A	
	40		EPRM-63LE-1-B40N/100-A	EPRM-63LE-1-C40N/100-A	EPRM-63LE-1-D40N/100-A	
	50		EPRM-63LE-1-B50N/100-A	EPRM-63LE-1-C50N/100-A	EPRM-63LE-1-D50N/100-A	
	63		EPRM-63LE-1-B63N/100-A	EPRM-63LE-1-C63N/100-A	EPRM-63LE-1-D63N/100-A	
	6	300mA	EPRM-63LE-1-B6N/300-A	EPRM-63LE-1-C6N/300-A	EPRM-63LE-1-D6N/300-A	
	10		EPRM-63LE-1-B10N/300-A	EPRM-63LE-1-C10N/300-A	EPRM-63LE-1-D10N/300-A	
	16		EPRM-63LE-1-B16N/300-A	EPRM-63LE-1-C16N/300-A	EPRM-63LE-1-D16N/300-A	
	20		EPRM-63LE-1-B20N/300-A	EPRM-63LE-1-C20N/300-A	EPRM-63LE-1-D20N/300-A	
	25		EPRM-63LE-1-B25N/300-A	EPRM-63LE-1-C25N/300-A	EPRM-63LE-1-D25N/300-A	
	32		EPRM-63LE-1-B32N/300-A	EPRM-63LE-1-C32N/300-A	EPRM-63LE-1-D32N/300-A	
	40		EPRM-63LE-1-B40N/300-A	EPRM-63LE-1-C40N/300-A	EPRM-63LE-1-D40N/300-A	
	50		EPRM-63LE-1-B50N/300-A	EPRM-63LE-1-C50N/300-A	EPRM-63LE-1-D50N/300-A	
	63		EPRM-63LE-1-B63N/300-A	EPRM-63LE-1-C63N/300-A	EPRM-63LE-1-D63N/300-A	

EPRM-63LE Series Residual Current Circuit Breakers with Overcurrent Protection

	Rated current(A)	IΔn	Type A			Packing unit
			B curve	C curve	D curve	
	6	10mA	EPRM-63LE-2-B6/10-A	EPRM-63LE-2-C6/10-A	EPRM-63LE-2-D6/10-A	
	10		EPRM-63LE-2-B10/10-A	EPRM-63LE-2-C10/10-A	EPRM-63LE-2-D10/10-A	
	16		EPRM-63LE-2-B16/10-A	EPRM-63LE-2-C16/10-A	EPRM-63LE-2-D16/10-A	
	20		EPRM-63LE-2-B20/10-A	EPRM-63LE-2-C20/10-A	EPRM-63LE-2-D20/10-A	
	25		EPRM-63LE-2-B25/10-A	EPRM-63LE-2-C25/10-A	EPRM-63LE-2-D25/10-A	
	32		EPRM-63LE-2-B32/10-A	EPRM-63LE-2-C32/10-A	EPRM-63LE-2-D32/10-A	
	40		EPRM-63LE-2-B40/10-A	EPRM-63LE-2-C40/10-A	EPRM-63LE-2-D40/10-A	
	50		EPRM-63LE-2-B50/10-A	EPRM-63LE-2-C50/10-A	EPRM-63LE-2-D50/10-A	
	63		EPRM-63LE-2-B63/10-A	EPRM-63LE-2-C63/10-A	EPRM-63LE-2-D63/10-A	
	6	30mA	EPRM-63LE-2-B6/30-A	EPRM-63LE-2-C6/30-A	EPRM-63LE-2-D6/30-A	
	10		EPRM-63LE-2-B10/30-A	EPRM-63LE-2-C10/30-A	EPRM-63LE-2-D10/30-A	
	16		EPRM-63LE-2-B16/30-A	EPRM-63LE-2-C16/30-A	EPRM-63LE-2-D16/30-A	
	20		EPRM-63LE-2-B20/30-A	EPRM-63LE-2-C20/30-A	EPRM-63LE-2-D20/30-A	
	25		EPRM-63LE-2-B25/30-A	EPRM-63LE-2-C25/30-A	EPRM-63LE-2-D25/30-A	
	32		EPRM-63LE-2-B32/30-A	EPRM-63LE-2-C32/30-A	EPRM-63LE-2-D32/30-A	
	40		EPRM-63LE-2-B40/30-A	EPRM-63LE-2-C40/30-A	EPRM-63LE-2-D40/30-A	
	50		EPRM-63LE-2-B50/30-A	EPRM-63LE-2-C50/30-A	EPRM-63LE-2-D50/30-A	
	63		EPRM-63LE-2-B63/30-A	EPRM-63LE-2-C63/30-A	EPRM-63LE-2-D63/30-A	
 Type A	6	100mA	EPRM-63LE-2-B6/100-A	EPRM-63LE-2-C6/100-A	EPRM-63LE-2-D6/100-A	1
	10		EPRM-63LE-2-B10/100-A	EPRM-63LE-2-C10/100-A	EPRM-63LE-2-D10/100-A	
	16		EPRM-63LE-2-B16/100-A	EPRM-63LE-2-C16/100-A	EPRM-63LE-2-D16/100-A	
	20		EPRM-63LE-2-B20/100-A	EPRM-63LE-2-C20/100-A	EPRM-63LE-2-D20/100-A	
	25		EPRM-63LE-2-B25/100-A	EPRM-63LE-2-C25/100-A	EPRM-63LE-2-D25/100-A	
	32		EPRM-63LE-2-B32/100-A	EPRM-63LE-2-C32/100-A	EPRM-63LE-2-D32/100-A	
	40		EPRM-63LE-2-B40/100-A	EPRM-63LE-2-C40/100-A	EPRM-63LE-2-D40/100-A	
	50		EPRM-63LE-2-B50/100-A	EPRM-63LE-2-C50/100-A	EPRM-63LE-2-D50/100-A	
	63		EPRM-63LE-2-B63/100-A	EPRM-63LE-2-C63/100-A	EPRM-63LE-2-D63/100-A	
	6	300mA	EPRM-63LE-2-B6/300-A	EPRM-63LE-2-C6/300-A	EPRM-63LE-2-D6/300-A	
	10		EPRM-63LE-2-B10/300-A	EPRM-63LE-2-C10/300-A	EPRM-63LE-2-D10/300-A	
	16		EPRM-63LE-2-B16/300-A	EPRM-63LE-2-C16/300-A	EPRM-63LE-2-D16/300-A	
	20		EPRM-63LE-2-B20/300-A	EPRM-63LE-2-C20/300-A	EPRM-63LE-2-D20/300-A	
	25		EPRM-63LE-2-B25/300-A	EPRM-63LE-2-C25/300-A	EPRM-63LE-2-D25/300-A	
	32		EPRM-63LE-2-B32/300-A	EPRM-63LE-2-C32/300-A	EPRM-63LE-2-D32/300-A	
	40		EPRM-63LE-2-B40/300-A	EPRM-63LE-2-C40/300-A	EPRM-63LE-2-D40/300-A	
	50		EPRM-63LE-2-B50/300-A	EPRM-63LE-2-C50/300-A	EPRM-63LE-2-D50/300-A	
	63		EPRM-63LE-2-B63/300-A	EPRM-63LE-2-C63/300-A	EPRM-63LE-2-D63/300-A	

EPRM-63LE Series Residual Current Circuit Breakers with Overcurrent Protection

	Rated current(A)	IΔn	Type A			Packing unit
			B curve	C curve	D curve	
	6	10mA	EPRM-63LE-3-B6/10-A	EPRM-63LE-3-C6/10-A	EPRM-63LE-3-D6/10-A	
	10		EPRM-63LE-3-B10/10-A	EPRM-63LE-3-C10/10-A	EPRM-63LE-3-D10/10-A	
	16		EPRM-63LE-3-B16/10-A	EPRM-63LE-3-C16/10-A	EPRM-63LE-3-D16/10-A	
	20		EPRM-63LE-3-B20/10-A	EPRM-63LE-3-C20/10-A	EPRM-63LE-3-D20/10-A	
	25		EPRM-63LE-3-B25/10-A	EPRM-63LE-3-C25/10-A	EPRM-63LE-3-D25/10-A	
	32		EPRM-63LE-3-B32/10-A	EPRM-63LE-3-C32/10-A	EPRM-63LE-3-D32/10-A	
	40		EPRM-63LE-3-B40/10-A	EPRM-63LE-3-C40/10-A	EPRM-63LE-3-D40/10-A	
	50		EPRM-63LE-3-B50/10-A	EPRM-63LE-3-C50/10-A	EPRM-63LE-3-D50/10-A	
	63		EPRM-63LE-3-B63/10-A	EPRM-63LE-3-C63/10-A	EPRM-63LE-3-D63/10-A	
	6	30mA	EPRM-63LE-3-B6/30-A	EPRM-63LE-3-C6/30-A	EPRM-63LE-3-D6/30-A	
	10		EPRM-63LE-3-B10/30-A	EPRM-63LE-3-C10/30-A	EPRM-63LE-3-D10/30-A	
	16		EPRM-63LE-3-B16/30-A	EPRM-63LE-3-C16/30-A	EPRM-63LE-3-D16/30-A	
	20		EPRM-63LE-3-B20/30-A	EPRM-63LE-3-C20/30-A	EPRM-63LE-3-D20/30-A	
	25		EPRM-63LE-3-B25/30-A	EPRM-63LE-3-C25/30-A	EPRM-63LE-3-D25/30-A	
	32		EPRM-63LE-3-B32/30-A	EPRM-63LE-3-C32/30-A	EPRM-63LE-3-D32/30-A	
	40		EPRM-63LE-3-B40/30-A	EPRM-63LE-3-C40/30-A	EPRM-63LE-3-D40/30-A	
	50		EPRM-63LE-3-B50/30-A	EPRM-63LE-3-C50/30-A	EPRM-63LE-3-D50/30-A	
	63		EPRM-63LE-3-B63/30-A	EPRM-63LE-3-C63/30-A	EPRM-63LE-3-D63/30-A	
 Type A	6	100mA	EPRM-63LE-3-B6/100-A	EPRM-63LE-3-C6/100-A	EPRM-63LE-3-D6/100-A	1
	10		EPRM-63LE-3-B10/100-A	EPRM-63LE-3-C10/100-A	EPRM-63LE-3-D10/100-A	
	16		EPRM-63LE-3-B16/100-A	EPRM-63LE-3-C16/100-A	EPRM-63LE-3-D16/100-A	
	20		EPRM-63LE-3-B20/100-A	EPRM-63LE-3-C20/100-A	EPRM-63LE-3-D20/100-A	
	25		EPRM-63LE-3-B25/100-A	EPRM-63LE-3-C25/100-A	EPRM-63LE-3-D25/100-A	
	32		EPRM-63LE-3-B32/100-A	EPRM-63LE-3-C32/100-A	EPRM-63LE-3-D32/100-A	
	40		EPRM-63LE-3-B40/100-A	EPRM-63LE-3-C40/100-A	EPRM-63LE-3-D40/100-A	
	50		EPRM-63LE-3-B50/100-A	EPRM-63LE-3-C50/100-A	EPRM-63LE-3-D50/100-A	
	63		EPRM-63LE-3-B63/100-A	EPRM-63LE-3-C63/100-A	EPRM-63LE-3-D63/100-A	
	6	300mA	EPRM-63LE-3-B6/300-A	EPRM-63LE-3-C6/300-A	EPRM-63LE-3-D6/300-A	
	10		EPRM-63LE-3-B10/300-A	EPRM-63LE-3-C10/300-A	EPRM-63LE-3-D10/300-A	
	16		EPRM-63LE-3-B16/300-A	EPRM-63LE-3-C16/300-A	EPRM-63LE-3-D16/300-A	
	20		EPRM-63LE-3-B20/300-A	EPRM-63LE-3-C20/300-A	EPRM-63LE-3-D20/300-A	
	25		EPRM-63LE-3-B25/300-A	EPRM-63LE-3-C25/300-A	EPRM-63LE-3-D25/300-A	
	32		EPRM-63LE-3-B32/300-A	EPRM-63LE-3-C32/300-A	EPRM-63LE-3-D32/300-A	
	40		EPRM-63LE-3-B40/300-A	EPRM-63LE-3-C40/300-A	EPRM-63LE-3-D40/300-A	
	50		EPRM-63LE-3-B50/300-A	EPRM-63LE-3-C50/300-A	EPRM-63LE-3-D50/300-A	
	63		EPRM-63LE-3-B63/300-A	EPRM-63LE-3-C63/300-A	EPRM-63LE-3-D63/300-A	

EPRM-63LE Series Residual Current Circuit Breakers with Overcurrent Protection

	Rated current(A)	IΔn	Type A			Packing unit
			B curve	C curve	D curve	
	6	10mA	EPRM-63LE-3-B6N/10-A	EPRM-63LE-3-C6N/10-A	EPRM-63LE-3-D6N/10-A	
	10		EPRM-63LE-3-B10N/10-A	EPRM-63LE-3-C10N/10-A	EPRM-63LE-3-D10N/10-A	
	16		EPRM-63LE-3-B16N/10-A	EPRM-63LE-3-C16N/10-A	EPRM-63LE-3-D16N/10-A	
	20		EPRM-63LE-3-B20N/10-A	EPRM-63LE-3-C20N/10-A	EPRM-63LE-3-D20N/10-A	
	25		EPRM-63LE-3-B25N/10-A	EPRM-63LE-3-C25N/10-A	EPRM-63LE-3-D25N/10-A	
	32		EPRM-63LE-3-B32N/10-A	EPRM-63LE-3-C32N/10-A	EPRM-63LE-3-D32N/10-A	
	40		EPRM-63LE-3-B40N/10-A	EPRM-63LE-3-C40N/10-A	EPRM-63LE-3-D40N/10-A	
	50		EPRM-63LE-3-B50N/10-A	EPRM-63LE-3-C50N/10-A	EPRM-63LE-3-D50N/10-A	
	63		EPRM-63LE-3-B63N/10-A	EPRM-63LE-3-C63N/10-A	EPRM-63LE-3-D63N/10-A	
	6	30mA	EPRM-63LE-3-B6N/30-A	EPRM-63LE-3-C6N/30-A	EPRM-63LE-3-D6N/30-A	
	10		EPRM-63LE-3-B10N/30-A	EPRM-63LE-3-C10N/30-A	EPRM-63LE-3-D10N/30-A	
	16		EPRM-63LE-3-B16N/30-A	EPRM-63LE-3-C16N/30-A	EPRM-63LE-3-D16N/30-A	
	20		EPRM-63LE-3-B20N/30-A	EPRM-63LE-3-C20N/30-A	EPRM-63LE-3-D20N/30-A	
	25		EPRM-63LE-3-B25N/30-A	EPRM-63LE-3-C25N/30-A	EPRM-63LE-3-D25N/30-A	
	32		EPRM-63LE-3-B32N/30-A	EPRM-63LE-3-C32N/30-A	EPRM-63LE-3-D32N/30-A	
	40		EPRM-63LE-3-B40N/30-A	EPRM-63LE-3-C40N/30-A	EPRM-63LE-3-D40N/30-A	
	50		EPRM-63LE-3-B50N/30-A	EPRM-63LE-3-C50N/30-A	EPRM-63LE-3-D50N/30-A	
	63		EPRM-63LE-3-B63N/30-A	EPRM-63LE-3-C63N/30-A	EPRM-63LE-3-D63N/30-A	
Type A	6	100mA	EPRM-63LE-3-B6N/100-A	EPRM-63LE-3-C6N/100-A	EPRM-63LE-3-D6N/100-A	1
	10		EPRM-63LE-3-B10N/100-A	EPRM-63LE-3-C10N/100-A	EPRM-63LE-3-D10N/100-A	
	16		EPRM-63LE-3-B16N/100-A	EPRM-63LE-3-C16N/100-A	EPRM-63LE-3-D16N/100-A	
	20		EPRM-63LE-3-B20N/100-A	EPRM-63LE-3-C20N/100-A	EPRM-63LE-3-D20N/100-A	
	25		EPRM-63LE-3-B25N/100-A	EPRM-63LE-3-C25N/100-A	EPRM-63LE-3-D25N/100-A	
	32		EPRM-63LE-3-B32N/100-A	EPRM-63LE-3-C32N/100-A	EPRM-63LE-3-D32N/100-A	
	40		EPRM-63LE-3-B40N/100-A	EPRM-63LE-3-C40N/100-A	EPRM-63LE-3-D40N/100-A	
	50		EPRM-63LE-3-B50N/100-A	EPRM-63LE-3-C50N/100-A	EPRM-63LE-3-D50N/100-A	
	63		EPRM-63LE-3-B63N/100-A	EPRM-63LE-3-C63N/100-A	EPRM-63LE-3-D63N/100-A	
	6	300mA	EPRM-63LE-3-B6N/300-A	EPRM-63LE-3-C6N/300-A	EPRM-63LE-3-D6N/300-A	
	10		EPRM-63LE-3-B10N/300-A	EPRM-63LE-3-C10N/300-A	EPRM-63LE-3-D10N/300-A	
	16		EPRM-63LE-3-B16N/300-A	EPRM-63LE-3-C16N/300-A	EPRM-63LE-3-D16N/300-A	
	20		EPRM-63LE-3-B20N/300-A	EPRM-63LE-3-C20N/300-A	EPRM-63LE-3-D20N/300-A	
	25		EPRM-63LE-3-B25N/300-A	EPRM-63LE-3-C25N/300-A	EPRM-63LE-3-D25N/300-A	
	32		EPRM-63LE-3-B32N/300-A	EPRM-63LE-3-C32N/300-A	EPRM-63LE-3-D32N/300-A	
	40		EPRM-63LE-3-B40N/300-A	EPRM-63LE-3-C40N/300-A	EPRM-63LE-3-D40N/300-A	
	50		EPRM-63LE-3-B50N/300-A	EPRM-63LE-3-C50N/300-A	EPRM-63LE-3-D50N/300-A	
	63		EPRM-63LE-3-B63N/300-A	EPRM-63LE-3-C63N/300-A	EPRM-63LE-3-D63N/300-A	

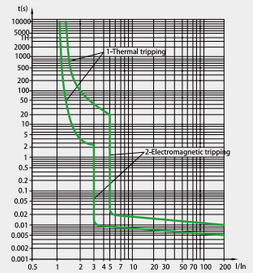
EPRM-63LE Series Residual Current Circuit Breakers with Overcurrent Protection

	Rated current(A)	IΔn	Type A			Packing unit
			B curve	C curve	D curve	
	6	10mA	EPRM-63LE-4-B6/10-A	EPRM-63LE-4-C6/10-A	EPRM-63LE-4-D6/10-A	1
	10		EPRM-63LE-4-B10/10-A	EPRM-63LE-4-C10/10-A	EPRM-63LE-4-D10/10-A	
	16		EPRM-63LE-4-B16/10-A	EPRM-63LE-4-C16/10-A	EPRM-63LE-4-D16/10-A	
	20		EPRM-63LE-4-B20/10-A	EPRM-63LE-4-C20/10-A	EPRM-63LE-4-D20/10-A	
	25		EPRM-63LE-4-B25/10-A	EPRM-63LE-4-C25/10-A	EPRM-63LE-4-D25/10-A	
	32		EPRM-63LE-4-B32/10-A	EPRM-63LE-4-C32/10-A	EPRM-63LE-4-D32/10-A	
	40		EPRM-63LE-4-B40/10-A	EPRM-63LE-4-C40/10-A	EPRM-63LE-4-D40/10-A	
	50		EPRM-63LE-4-B50/10-A	EPRM-63LE-4-C50/10-A	EPRM-63LE-4-D50/10-A	
	63		EPRM-63LE-4-B63/10-A	EPRM-63LE-4-C63/10-A	EPRM-63LE-4-D63/10-A	
	6	30mA	EPRM-63LE-4-B6/30-A	EPRM-63LE-4-C6/30-A	EPRM-63LE-4-D6/30-A	
	10		EPRM-63LE-4-B10/30-A	EPRM-63LE-4-C10/30-A	EPRM-63LE-4-D10/30-A	
	16		EPRM-63LE-4-B16/30-A	EPRM-63LE-4-C16/30-A	EPRM-63LE-4-D16/30-A	
	20		EPRM-63LE-4-B20/30-A	EPRM-63LE-4-C20/30-A	EPRM-63LE-4-D20/30-A	
	25		EPRM-63LE-4-B25/30-A	EPRM-63LE-4-C25/30-A	EPRM-63LE-4-D25/30-A	
	32		EPRM-63LE-4-B32/30-A	EPRM-63LE-4-C32/30-A	EPRM-63LE-4-D32/30-A	
	40		EPRM-63LE-4-B40/30-A	EPRM-63LE-4-C40/30-A	EPRM-63LE-4-D40/30-A	
	50		EPRM-63LE-4-B50/30-A	EPRM-63LE-4-C50/30-A	EPRM-63LE-4-D50/30-A	
	63		EPRM-63LE-4-B63/30-A	EPRM-63LE-4-C63/30-A	EPRM-63LE-4-D63/30-A	
	6	100mA	EPRM-63LE-4-B6/100-A	EPRM-63LE-4-C6/100-A	EPRM-63LE-4-D6/100-A	
	10		EPRM-63LE-4-B10/100-A	EPRM-63LE-4-C10/100-A	EPRM-63LE-4-D10/100-A	
	16		EPRM-63LE-4-B16/100-A	EPRM-63LE-4-C16/100-A	EPRM-63LE-4-D16/100-A	
	20		EPRM-63LE-4-B20/100-A	EPRM-63LE-4-C20/100-A	EPRM-63LE-4-D20/100-A	
	25		EPRM-63LE-4-B25/100-A	EPRM-63LE-4-C25/100-A	EPRM-63LE-4-D25/100-A	
	32		EPRM-63LE-4-B32/100-A	EPRM-63LE-4-C32/100-A	EPRM-63LE-4-D32/100-A	
	40		EPRM-63LE-4-B40/100-A	EPRM-63LE-4-C40/100-A	EPRM-63LE-4-D40/100-A	
	50		EPRM-63LE-4-B50/100-A	EPRM-63LE-4-C50/100-A	EPRM-63LE-4-D50/100-A	
	63		EPRM-63LE-4-B63/100-A	EPRM-63LE-4-C63/100-A	EPRM-63LE-4-D63/100-A	
	6	300mA	EPRM-63LE-4-B6/300-A	EPRM-63LE-4-C6/300-A	EPRM-63LE-4-D6/300-A	
	10		EPRM-63LE-4-B10/300-A	EPRM-63LE-4-C10/300-A	EPRM-63LE-4-D10/300-A	
	16		EPRM-63LE-4-B16/300-A	EPRM-63LE-4-C16/300-A	EPRM-63LE-4-D16/300-A	
	20		EPRM-63LE-4-B20/300-A	EPRM-63LE-4-C20/300-A	EPRM-63LE-4-D20/300-A	
	25		EPRM-63LE-4-B25/300-A	EPRM-63LE-4-C25/300-A	EPRM-63LE-4-D25/300-A	
	32		EPRM-63LE-4-B32/300-A	EPRM-63LE-4-C32/300-A	EPRM-63LE-4-D32/300-A	
	40		EPRM-63LE-4-B40/300-A	EPRM-63LE-4-C40/300-A	EPRM-63LE-4-D40/300-A	
	50		EPRM-63LE-4-B50/300-A	EPRM-63LE-4-C50/300-A	EPRM-63LE-4-D50/300-A	
	63		EPRM-63LE-4-B63/300-A	EPRM-63LE-4-C63/300-A	EPRM-63LE-4-D63/300-A	

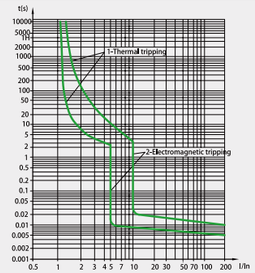
Type A

EPRM-63LE Series Residual Current Circuit Breakers with Overcurrent Protection

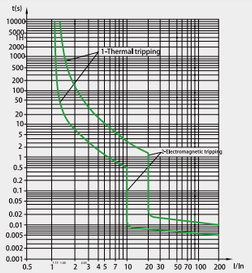
Curves



B type



C type



D type

Breaking time of residual current

Max.breaking time					
In(A)	IΔn(A)	IΔn	2 IΔn	5 IΔn	5-500A
6-63	0.01,0.03,0.1,0.3	0.1s	0.08s	0.04s	0.04s

Wiring (The suitable conductors should be used for connection,see table below for relative parameters)

Rated current In (A)	Cross section area s(mm^2)	Tightening torque(N.m)
6	1	2.0
10	1.5	
13	1.5	
16-20	2.5	
25	4	
32	6	
40-50	10	
63	16	

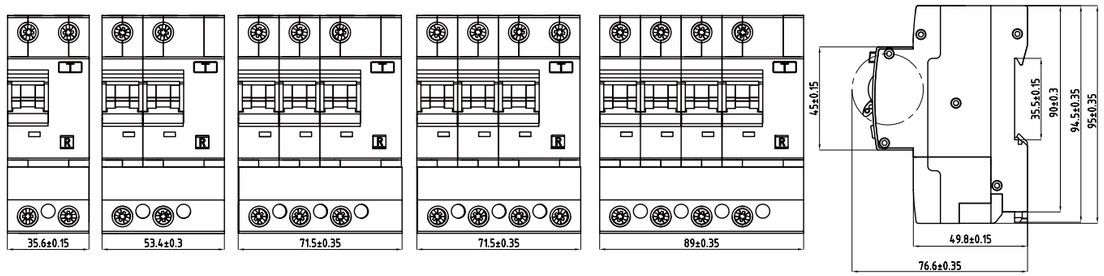
Types

Both RCCBs and RCBOs are devided into types depending on the operating function:
Type AC: For which tripping is ensured for residual sinusoidal alternating currents, whether suddenly applied or slowly rising.
Type A: For which tripping is ensued for residual sinusoidal alternating currents and residual pulsating direct currents, whether suddenly applied or slowly rising.

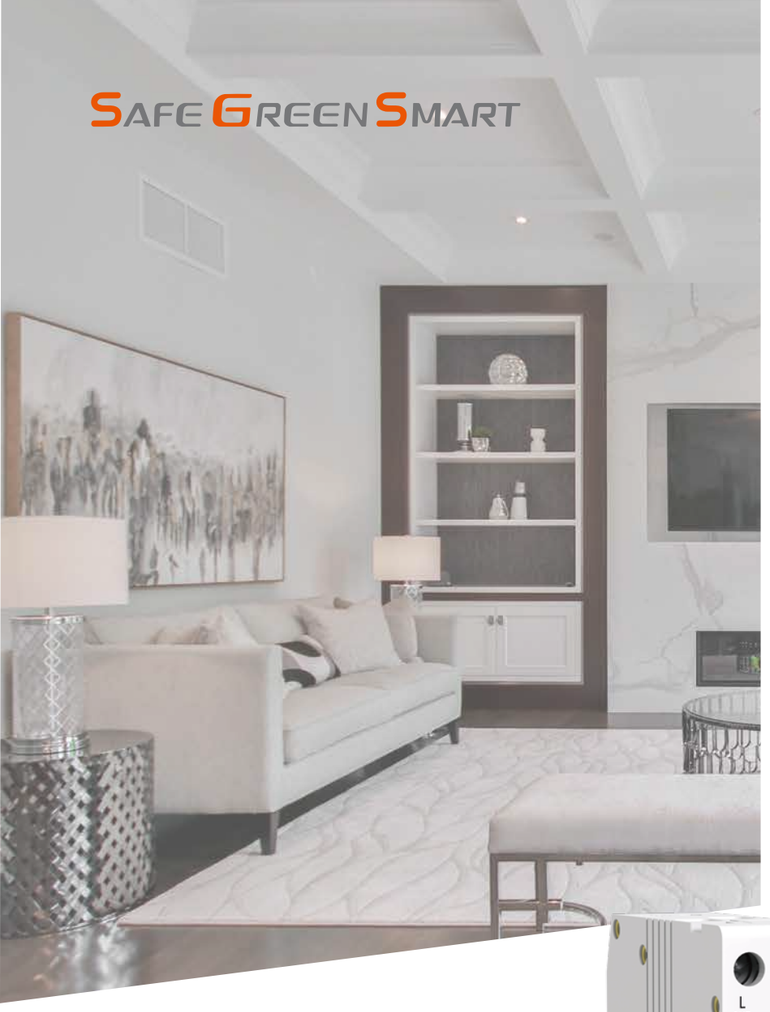
Tripping sensitivity data

RCD with a rated residual current of maximum 30mA are used for personnel,material and fire protection, as well as for protection against direct contact.
RCD with a rated residual current of maximum 300mA are used as preventative fire protection in case of insulation faults.
RCD with a rated residual current of 100mA co-ordinated with the earth system according to the formula IΔn<50/R, to provide protection again indirect contacts.

Overall and mounting dimensions



EPRM-63LE



AFDD

- Prevents fires
- Fits in new and existing installations
- Switched neutral
- 4 in 1 protection

OVERLOAD

Test current: In:6-40A
1.13 x In No tripping within an hour
1.45 x In Tripping within an hour

ARC FAULT

Serial Arcing Fault
Parallel Arcing Fault
Grounding Arc Fault

SHORT CIRCUIT

B,C Tripping Characteristics
B:(3-5) x In
C:(5-10) x In

EARTH LEAKAGE

I△n: 10,30,100,300mA
Type A & AC

MAXGE

EPBR-40AFD Series		Arc Fault Detection Device
Standard		IEC/EN 62606,IEC/EN 61009-1
Rated conditional short-circuit current(kA)		6
Rated current(A),In		6,10,16,20,25,32,40
Number of poles		1P+N
Rated sensitivity currents(mA),I△n		10,30,100,300
Tripping curve		B,C
Rated residual non-operating current		0.5XI△n
Rated impulse withstand voltage Uimp(kV)		4
Rated voltage(V)		AC 230/240
Ambient temperature (°C)		-25~+40,Max.95%humidity
Residual current off time		≤0.1s
Type of trip	Ground fault	Electronic
	Over current	Thermal-magnetic
	Arc fault	Serial Arcing Fault,Parallel Arcing Fault,Grounding Arc Fault
	Power supply failure	Over voltage protection
Electrical endurance		2000
Mechanical endurance		10000
Terminal capacity		10mm² flexible/16mm² rigid
Protection degree		IP20
Installation		35mm DIN rail
Certification		Intertek CE CB

EPBR-40AFD

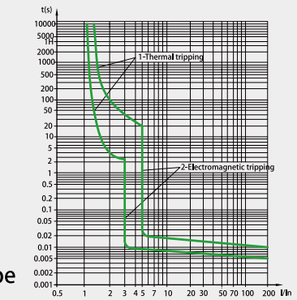
EPBR-40AFD Series Arc Fault Detection Device

	Rated current(A)	IΔn	Type AC B curve	Type AC C curve	Type A B curve	Type A C curve	Packing unit
 Type AC	6	10mA	EPBR-40AFD-6K/B6/10	EPBR-40AFD-6K/C6/10	EPBR-40AFD-6K/B6/10-A	EPBR-40AFD-6K/C6/10-A	5
	10		EPBR-40AFD-6K/B10/10	EPBR-40AFD-6K/C10/10	EPBR-40AFD-6K/B10/10-A	EPBR-40AFD-6K/C10/10-A	
	16		EPBR-40AFD-6K/B16/10	EPBR-40AFD-6K/C16/10	EPBR-40AFD-6K/B16/10-A	EPBR-40AFD-6K/C16/10-A	
	20		EPBR-40AFD-6K/B20/10	EPBR-40AFD-6K/C20/10	EPBR-40AFD-6K/B20/10-A	EPBR-40AFD-6K/C20/10-A	
	25		EPBR-40AFD-6K/B25/10	EPBR-40AFD-6K/C25/10	EPBR-40AFD-6K/B25/10-A	EPBR-40AFD-6K/C25/10-A	
	32		EPBR-40AFD-6K/B32/10	EPBR-40AFD-6K/C32/10	EPBR-40AFD-6K/B32/10-A	EPBR-40AFD-6K/C32/10-A	
	40		EPBR-40AFD-6K/B40/10	EPBR-40AFD-6K/C40/10	EPBR-40AFD-6K/B40/10-A	EPBR-40AFD-6K/C40/10-A	
	6	30mA	EPBR-40AFD-6K/B6/30	EPBR-40AFD-6K/C6/30	EPBR-40AFD-6K/B6/30-A	EPBR-40AFD-6K/C6/30-A	
	10		EPBR-40AFD-6K/B10/30	EPBR-40AFD-6K/C10/30	EPBR-40AFD-6K/B10/30-A	EPBR-40AFD-6K/C10/30-A	
	16		EPBR-40AFD-6K/B16/30	EPBR-40AFD-6K/C16/30	EPBR-40AFD-6K/B16/30-A	EPBR-40AFD-6K/C16/30-A	
	20		EPBR-40AFD-6K/B20/30	EPBR-40AFD-6K/C20/30	EPBR-40AFD-6K/B20/30-A	EPBR-40AFD-6K/C20/30-A	
	25		EPBR-40AFD-6K/B25/30	EPBR-40AFD-6K/C25/30	EPBR-40AFD-6K/B25/30-A	EPBR-40AFD-6K/C25/30-A	
	32		EPBR-40AFD-6K/B32/30	EPBR-40AFD-6K/C32/30	EPBR-40AFD-6K/B32/30-A	EPBR-40AFD-6K/C32/30-A	
	40		EPBR-40AFD-6K/B40/30	EPBR-40AFD-6K/C40/30	EPBR-40AFD-6K/B40/30-A	EPBR-40AFD-6K/C40/30-A	
 Type A	6	100mA	EPBR-40AFD-6K/B6/100	EPBR-40AFD-6K/C6/100	EPBR-40AFD-6K/B6/100-A	EPBR-40AFD-6K/C6/100-A	
	10		EPBR-40AFD-6K/B10/100	EPBR-40AFD-6K/C10/100	EPBR-40AFD-6K/B10/100-A	EPBR-40AFD-6K/C10/100-A	
	16		EPBR-40AFD-6K/B16/100	EPBR-40AFD-6K/C16/100	EPBR-40AFD-6K/B16/100-A	EPBR-40AFD-6K/C16/100-A	
	20		EPBR-40AFD-6K/B20/100	EPBR-40AFD-6K/C20/100	EPBR-40AFD-6K/B20/100-A	EPBR-40AFD-6K/C20/100-A	
	25		EPBR-40AFD-6K/B25/100	EPBR-40AFD-6K/C25/100	EPBR-40AFD-6K/B25/100-A	EPBR-40AFD-6K/C25/100-A	
	32		EPBR-40AFD-6K/B32/100	EPBR-40AFD-6K/C32/100	EPBR-40AFD-6K/B32/100-A	EPBR-40AFD-6K/C32/100-A	
	40		EPBR-40AFD-6K/B40/100	EPBR-40AFD-6K/C40/100	EPBR-40AFD-6K/B40/100-A	EPBR-40AFD-6K/C40/100-A	
	6	300mA	EPBR-40AFD-6K/B6/300	EPBR-40AFD-6K/C6/300	EPBR-40AFD-6K/B6/300-A	EPBR-40AFD-6K/C6/300-A	
	10		EPBR-40AFD-6K/B10/300	EPBR-40AFD-6K/C10/300	EPBR-40AFD-6K/B10/300-A	EPBR-40AFD-6K/C10/300-A	
	16		EPBR-40AFD-6K/B16/300	EPBR-40AFD-6K/C16/300	EPBR-40AFD-6K/B16/300-A	EPBR-40AFD-6K/C16/300-A	
	20		EPBR-40AFD-6K/B20/300	EPBR-40AFD-6K/C20/300	EPBR-40AFD-6K/B20/300-A	EPBR-40AFD-6K/C20/300-A	
	25		EPBR-40AFD-6K/B25/300	EPBR-40AFD-6K/C25/300	EPBR-40AFD-6K/B25/300-A	EPBR-40AFD-6K/C25/300-A	
	32		EPBR-40AFD-6K/B32/300	EPBR-40AFD-6K/C32/300	EPBR-40AFD-6K/B32/300-A	EPBR-40AFD-6K/C32/300-A	
	40		EPBR-40AFD-6K/B40/300	EPBR-40AFD-6K/C40/300	EPBR-40AFD-6K/B40/300-A	EPBR-40AFD-6K/C40/300-A	

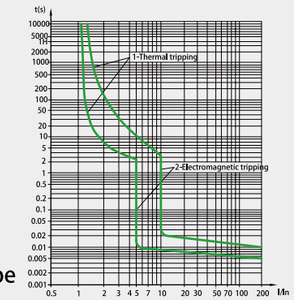
EPBR-40AFD Series Arc Fault Detection Device

Curves

B type



C type



Breaking time of residual current

Max.breaking time					
In(A)	IΔn(A)	IΔn	2 IΔn	5 IΔn	5-500A
6-40	0.01,0.03,0.1,0.3	0.1s	0.08s	0.04s	0.04s

Wiring (The suitable conductors should be used for connection,see table below for relative parameters)

Rated current In (A)	Cross section area s(mm²)	Tightening torque(N.m)
6	1	M5 2.0 M4 1.2
10	1.5	
13	1.5	
16-20	2.5	
25	4	
32	6	
40	10	

AFDD For The Consumer Unit

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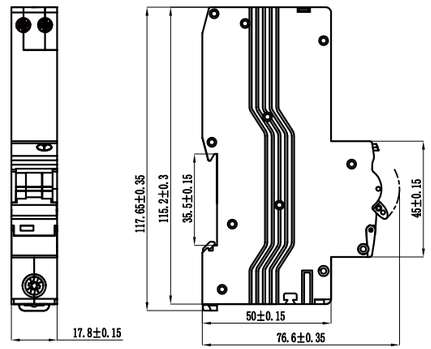
Overall and mounting dimensions



EPBR-40AFD

EPBR2-40AFD Series Arc Fault Detection Device

Standard		IEC/EN 62606,IEC/EN 61009-1
Rated conditional short-circuit current(kA)		6,10
Rated current(A),In		6,10,16,20,25,32,40
Number of poles		1P+N
Rated sensitivity currents(mA),I∆n		10,30,100,300
Tripping curve		B,C
Rated residual non-operating current		0.5XI∆n
Rated impulse withstand voltage Uimp(kV)		4
Rated voltage(V)		AC 230/240
Ambient temperature (℃)		-25~+40,Max.95%humidity
Residual current off time		≤0.1s
Type of trip	Ground fault	Electronic
	Over current	Thermal-magnetic
	Arc fault	Serial Arcing Fault,Parallel Arcing Fault,Grounding Arc Fault
	Power supply failure	Over voltage protection
Electrical endurance		2000
Mechanical endurance		10000
Terminal capacity		16mm² flexible/25mm² rigid
Protection degree		IP20
Installation		35mm DIN rail

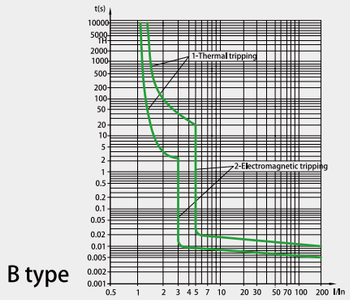
EPBR2-40AFD

EPBR2-40AFD Series Arc Fault Detection Device

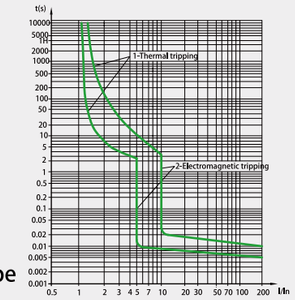
	Rated current(A)	I∆n	Type AC B curve	Type AC C curve	Type A B curve	Type A C curve	Packing unit
 Type AC	6	10mA	EPBR2-40AFD-B6/10	EPBR2-40AFD-C6/10	EPBR2-40AFD-B6/10-A	EPBR2-40AFD-C6/10-A	6
	10		EPBR2-40AFD-B10/10	EPBR2-40AFD-C10/10	EPBR2-40AFD-B10/10-A	EPBR2-40AFD-C10/10-A	
	16		EPBR2-40AFD-B16/10	EPBR2-40AFD-C16/10	EPBR2-40AFD-B16/10-A	EPBR2-40AFD-C16/10-A	
	20		EPBR2-40AFD-B20/10	EPBR2-40AFD-C20/10	EPBR2-40AFD-B20/10-A	EPBR2-40AFD-C20/10-A	
	25		EPBR2-40AFD-B25/10	EPBR2-40AFD-C25/10	EPBR2-40AFD-B25/10-A	EPBR2-40AFD-C25/10-A	
	32		EPBR2-40AFD-B32/10	EPBR2-40AFD-C32/10	EPBR2-40AFD-B32/10-A	EPBR2-40AFD-C32/10-A	
	40		EPBR2-40AFD-B40/10	EPBR2-40AFD-C40/10	EPBR2-40AFD-B40/10-A	EPBR2-40AFD-C40/10-A	
	6	30mA	EPBR2-40AFD-B6/30	EPBR2-40AFD-C6/30	EPBR2-40AFD-B6/30-A	EPBR2-40AFD-C6/30-A	
	10		EPBR2-40AFD-B10/30	EPBR2-40AFD-C10/30	EPBR2-40AFD-B10/30-A	EPBR2-40AFD-C10/30-A	
	16		EPBR2-40AFD-B16/30	EPBR2-40AFD-C16/30	EPBR2-40AFD-B16/30-A	EPBR2-40AFD-C16/30-A	
	20		EPBR2-40AFD-B20/30	EPBR2-40AFD-C20/30	EPBR2-40AFD-B20/30-A	EPBR2-40AFD-C20/30-A	
	25		EPBR2-40AFD-B25/30	EPBR2-40AFD-C25/30	EPBR2-40AFD-B25/30-A	EPBR2-40AFD-C25/30-A	
	32		EPBR2-40AFD-B32/30	EPBR2-40AFD-C32/30	EPBR2-40AFD-B32/30-A	EPBR2-40AFD-C32/30-A	
	40		EPBR2-40AFD-B40/30	EPBR2-40AFD-C40/30	EPBR2-40AFD-B40/30-A	EPBR2-40AFD-C40/30-A	
 Type A	6	100mA	EPBR2-40AFD-B6/100	EPBR2-40AFD-C6/100	EPBR2-40AFD-B6/100-A	EPBR2-40AFD-C6/100-A	
	10		EPBR2-40AFD-B10/100	EPBR2-40AFD-C10/100	EPBR2-40AFD-B10/100-A	EPBR2-40AFD-C10/100-A	
	16		EPBR2-40AFD-B16/100	EPBR2-40AFD-C16/100	EPBR2-40AFD-B16/100-A	EPBR2-40AFD-C16/100-A	
	20		EPBR2-40AFD-B20/100	EPBR2-40AFD-C20/100	EPBR2-40AFD-B20/100-A	EPBR2-40AFD-C20/100-A	
	25		EPBR2-40AFD-B25/100	EPBR2-40AFD-C25/100	EPBR2-40AFD-B25/100-A	EPBR2-40AFD-C25/100-A	
	32		EPBR2-40AFD-B32/100	EPBR2-40AFD-C32/100	EPBR2-40AFD-B32/100-A	EPBR2-40AFD-C32/100-A	
	40		EPBR2-40AFD-B40/100	EPBR2-40AFD-C40/100	EPBR2-40AFD-B40/100-A	EPBR2-40AFD-C40/100-A	
	6	300mA	EPBR2-40AFD-B6/300	EPBR2-40AFD-C6/300	EPBR2-40AFD-B6/300-A	EPBR2-40AFD-C6/300-A	
	10		EPBR2-40AFD-B10/300	EPBR2-40AFD-C10/300	EPBR2-40AFD-B10/300-A	EPBR2-40AFD-C10/300-A	
	16		EPBR2-40AFD-B16/300	EPBR2-40AFD-C16/300	EPBR2-40AFD-B16/300-A	EPBR2-40AFD-C16/300-A	
	20		EPBR2-40AFD-B20/300	EPBR2-40AFD-C20/300	EPBR2-40AFD-B20/300-A	EPBR2-40AFD-C20/300-A	
	25		EPBR2-40AFD-B25/300	EPBR2-40AFD-C25/300	EPBR2-40AFD-B25/300-A	EPBR2-40AFD-C25/300-A	
	32		EPBR2-40AFD-B32/300	EPBR2-40AFD-C32/300	EPBR2-40AFD-B32/300-A	EPBR2-40AFD-C32/300-A	
	40		EPBR2-40AFD-B40/300	EPBR2-40AFD-C40/300	EPBR2-40AFD-B40/300-A	EPBR2-40AFD-C40/300-A	

EPBR2-40AFD Series Arc Fault Detection Device

Curves



B type



C type

Breaking time of residual current

Max.breaking time					
In(A)	I△n(A)	I△n	2 I△n	5 I△n	5-500A
6-40	0.01,0.03,0.1,0.3	0.1s	0.08s	0.04s	0.04s

Wiring (The suitable conductors should be used for connection,see table below for relative parameters)

Rated current In (A)	Cross section area s(mm²)	Tightening torque(N.m)
6	1	2.0
10	1.5	
13	1.5	
16-20	2.5	
25	4	
32	6	
40	10	

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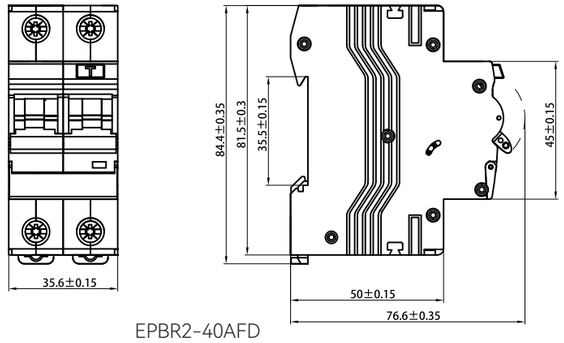
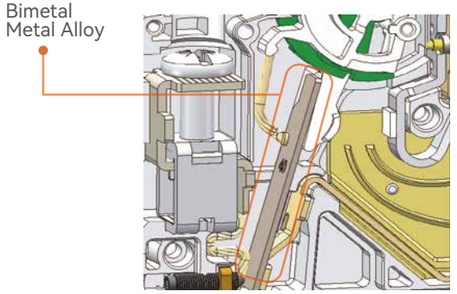
Overall and mounting dimensions



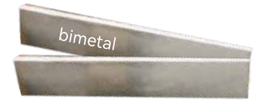
EPBR2-40AFD

EPBR2-40AFD Series Arc Fault Detection Device

Overload Operation

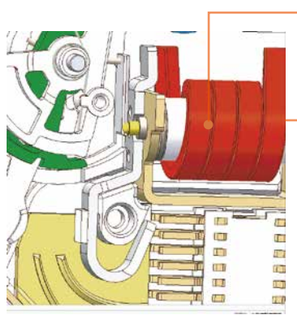


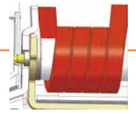
Overload Protection:Through
Consists of 2 differernt metals bonded together
Different metals have different coefficient of expansion



- On heating-it bends towards tripping
- Pushes the trip catch lever
- Switching mechanism actuated

Short Circuit Operation

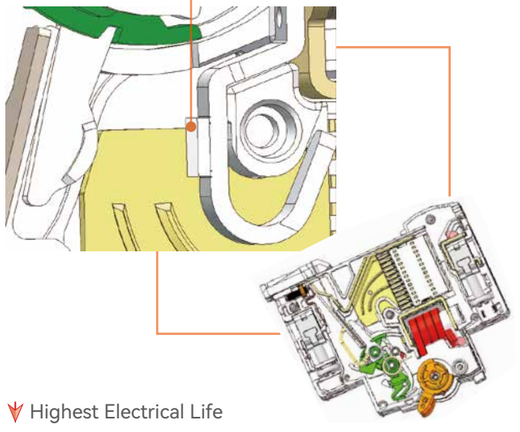




- High current flows
- Attracts tripping plunger
- Lower portion of plunger pushes trip catch lever
- Solenoid gets magnetized
- Switching mechanism actuated

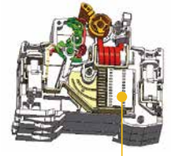
Features & Benefits

Real Silver Graphite,AGC anti-weld contact tips

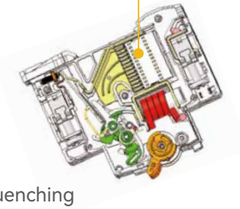


- Highest Electrical Life
- Maximum Safety against Contact welding
- Rare possibility of AFDD replacement

Energy Limiting
Class 3



13 Plates Arc Chamber



- Quick & Efficient Arc Quenching
- Very low let through energy,class 3
- Increases life of Installation & equipment

MCB SERIES

Miniature Circuit Breaker

Products Overview of Circuit Breakers

Product name	MCB				
Product range	EPB-63Me	EPB-63Ne	EPB-63Se	EPB-63M	EPB-63H
Product picture					
Standard	IEC/EN 60898-1 GB/T 10963.1				
Number of poles	1P,2P,3P,4P,(1P+N),(3P+N)				
Electrical characteristics					
Rated current(A) In	1-63				
Rated voltage(V)	1P AC 230/400;240/415 1P+N AC 230/240 2P AC 230/240;400/415 3P,3P+N,4P AC 400/415				
AC rated short-circuit capacity(kA)					
IEC60898-1 standard(kA)	6	4.5	3	6	10
Tripping curve	B,C			B,C,D	
Type	AC				
Electrical auxiliaries	-			Auxilary contact,Alarm contact, Shunt trip,Over/under voltage trip	
Catalogue page NO.	60-63			64-69	

Products Overview of Circuit Breakers

Product name	DC MCB	DPN MCB	HR MCB		ISOLATING SWITCH
Product range	EPB-63M-DC	EP-DPN	SGB-125L	SGB-125H	EPI-R
Product picture					
Standard	GB/T14048.2 IEC/EN 60947-2	GB/T10963.1 IEC/EN 60898-1	IEC/EN 60898-1 IEC/EN 60947-2		GB/T14048.3 IEC/EN 60947-3
Number of poles	1P,2P,3P,4P	1P+N	1P,2P,3P,4P		1P,2P,3P,4P
Electrical characteristics					
Rated current(A) In	1-63	2-32	40-125		16-125
Rated voltage(V)	DC 120,240	AC 240	AC 240,415		AC 240,415
AC rated short-circuit capacity(kA)					
Breaking capacity (Icn/Icu)kA	6	3 / 4.5 / 6	IEC-60898-1: 6	IEC-60947-2: 10	-
Tripping curve	8-12In	B,C	B,C,D	8-12In	-
Type	DC	AC			
Electrical auxiliaries	-	Auxilary contact Alarm contact Shunt trip Over/under voltage trip	-		
Catalogue page NO.	70-73	74-76	77-79		80-82

EPB-63Me/Ne/Se Series Miniature Circuit Breaker

Standard	EN/IEC 60898-1 GB/T 10963.1
Breaking capacity(kA)	3,4.5,6
Protection	Against overload and short circuit
Rated current(A) In	1,2,3,4,6,10,13,16,20,25,32,40,50,63
Rated voltage(V)	1P AC 230/400,240/415;1P+N AC 230/240 2P AC230/400,240/415;3P,3P+N,4P AC230/240
Rated impulse withstand voltage Uimp(kV)	4
Rated insulation voltage Ui(V)	500
Energy limiting class	3
Ambient temperature (℃)	-25~+40,Max.95%humidity
Thermal operating limit	1.13 xIn No tripping within an hour 1.45 xIn Tripping within an hour
Magnertic operating	B:(3-5)xIn,C:(5-10)xIn
Number of poles	1P,1P+N,2P,3P,3P+N and 4P
Type of trip	Thermal/ magnetic release
Terminal capacity	16mm² flexible or 25mm² rigid
Protection degree	IP20
Installation	Mounting on 35mm DIN rail
Width	17.8mm per pole
Certification	INMETRO CE CB

EPB-63Me-1P EPB-63Me-2P EPB-63Me-3P EPB-63Me-4P

EPB-63Me/Ne/Se Series Miniature Circuit Breaker

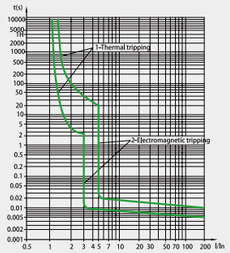
	Rated current(A)	C curve			Packing unit
		6 kA	4.5 kA	3 kA	
 EPB-63Me-1P	1	EPB-63Me/1-C1	EPB-63Ne/1-C1	EPB-63Se/1-C1	12
	2	EPB-63Me/1-C2	EPB-63Ne/1-C2	EPB-63Se/1-C2	
	3	EPB-63Me/1-C3	EPB-63Ne/1-C3	EPB-63Se/1-C3	
	4	EPB-63Me/1-C4	EPB-63Ne/1-C4	EPB-63Se/1-C4	
	6	EPB-63Me/1-C6	EPB-63Ne/1-C6	EPB-63Se/1-C6	
	10	EPB-63Me/1-C10	EPB-63Ne/1-C10	EPB-63Se/1-C10	
	13	EPB-63Me/1-C13	EPB-63Ne/1-C13	EPB-63Se/1-C13	
	16	EPB-63Me/1-C16	EPB-63Ne/1-C16	EPB-63Se/1-C16	
	20	EPB-63Me/1-C20	EPB-63Ne/1-C20	EPB-63Se/1-C20	
	25	EPB-63Me/1-C25	EPB-63Ne/1-C25	EPB-63Se/1-C25	
	32	EPB-63Me/1-C32	EPB-63Ne/1-C32	EPB-63Se/1-C32	
	40	EPB-63Me/1-C40	EPB-63Ne/1-C40	EPB-63Se/1-C40	
	50	EPB-63Me/1-C50	EPB-63Ne/1-C50	EPB-63Se/1-C50	
	63	EPB-63Me/1-C63	EPB-63Ne/1-C63	EPB-63Se/1-C63	
 EPB-63Me-1P+N	1	EPB-63Me/1-C1N	EPB-63Ne/1-C1N	EPB-63Se/1-C1N	6
	2	EPB-63Me/1-C2N	EPB-63Ne/1-C2N	EPB-63Se/1-C2N	
	3	EPB-63Me/1-C3N	EPB-63Ne/1-C3N	EPB-63Se/1-C3N	
	4	EPB-63Me/1-C4N	EPB-63Ne/1-C4N	EPB-63Se/1-C4N	
	6	EPB-63Me/1-C6N	EPB-63Ne/1-C6N	EPB-63Se/1-C6N	
	10	EPB-63Me/1-C10N	EPB-63Ne/1-C10N	EPB-63Se/1-C10N	
	13	EPB-63Me/1-C13N	EPB-63Ne/1-C13N	EPB-63Se/1-C13N	
	16	EPB-63Me/1-C16N	EPB-63Ne/1-C16N	EPB-63Se/1-C16N	
	20	EPB-63Me/1-C20N	EPB-63Ne/1-C20N	EPB-63Se/1-C20N	
	25	EPB-63Me/1-C25N	EPB-63Ne/1-C25N	EPB-63Se/1-C25N	
	32	EPB-63Me/1-C32N	EPB-63Ne/1-C32N	EPB-63Se/1-C32N	
	40	EPB-63Me/1-C40N	EPB-63Ne/1-C40N	EPB-63Se/1-C40N	
	50	EPB-63Me/1-C50N	EPB-63Ne/1-C50N	EPB-63Se/1-C50N	
	63	EPB-63Me/1-C63N	EPB-63Ne/1-C63N	EPB-63Se/1-C63N	
 EPB-63Me-2P	1	EPB-63Me/2-C1	EPB-63Ne/2-C1	EPB-63Se/2-C1	6
	2	EPB-63Me/2-C2	EPB-63Ne/2-C2	EPB-63Se/2-C2	
	3	EPB-63Me/2-C3	EPB-63Ne/2-C3	EPB-63Se/2-C3	
	4	EPB-63Me/2-C4	EPB-63Ne/2-C4	EPB-63Se/2-C4	
	6	EPB-63Me/2-C6	EPB-63Ne/2-C6	EPB-63Se/2-C6	
	10	EPB-63Me/2-C10	EPB-63Ne/2-C10	EPB-63Se/2-C10	
	13	EPB-63Me/2-C13	EPB-63Ne/2-C13	EPB-63Se/2-C13	
	16	EPB-63Me/2-C16	EPB-63Ne/2-C16	EPB-63Se/2-C16	
	20	EPB-63Me/2-C20	EPB-63Ne/2-C20	EPB-63Se/2-C20	
	25	EPB-63Me/2-C25	EPB-63Ne/2-C25	EPB-63Se/2-C25	
	32	EPB-63Me/2-C32	EPB-63Ne/2-C32	EPB-63Se/2-C32	
	40	EPB-63Me/2-C40	EPB-63Ne/2-C40	EPB-63Se/2-C40	
	50	EPB-63Me/2-C50	EPB-63Ne/2-C50	EPB-63Se/2-C50	
	63	EPB-63Me/2-C63	EPB-63Ne/2-C63	EPB-63Se/2-C63	

EPB-63Me/Ne/Se Series Miniature Circuit Breaker

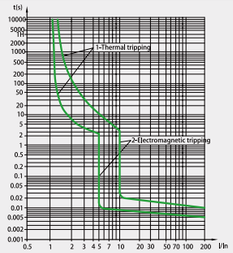
	Rated current(A)	C curve			Packing unit
		6 kA	4.5 kA	3 kA	
 EPB-63Me-3P	1	EPB-63Me/3-C1	EPB-63Ne/3-C1	EPB-63Se/3-C1	4
	2	EPB-63Me/3-C2	EPB-63Ne/3-C2	EPB-63Se/3-C2	
	3	EPB-63Me/3-C3	EPB-63Ne/3-C3	EPB-63Se/3-C3	
	4	EPB-63Me/3-C4	EPB-63Ne/3-C4	EPB-63Se/3-C4	
	6	EPB-63Me/3-C6	EPB-63Ne/3-C6	EPB-63Se/3-C6	
	10	EPB-63Me/3-C10	EPB-63Ne/3-C10	EPB-63Se/3-C10	
	13	EPB-63Me/3-C13	EPB-63Ne/3-C13	EPB-63Se/3-C13	
	16	EPB-63Me/3-C16	EPB-63Ne/3-C16	EPB-63Se/3-C16	
	20	EPB-63Me/3-C20	EPB-63Ne/3-C20	EPB-63Se/3-C20	
	25	EPB-63Me/3-C25	EPB-63Ne/3-C25	EPB-63Se/3-C25	
	32	EPB-63Me/3-C32	EPB-63Ne/3-C32	EPB-63Se/3-C32	
	40	EPB-63Me/3-C40	EPB-63Ne/3-C40	EPB-63Se/3-C40	
	50	EPB-63Me/3-C50	EPB-63Ne/3-C50	EPB-63Se/3-C50	
	63	EPB-63Me/3-C63	EPB-63Ne/3-C63	EPB-63Se/3-C63	
 EPB-63Me-3P+N	1	EPB-63Me/3-C1N	EPB-63Ne/3-C1N	EPB-63Se/3-C1N	3
	2	EPB-63Me/3-C2N	EPB-63Ne/3-C2N	EPB-63Se/3-C2N	
	3	EPB-63Me/3-C3N	EPB-63Ne/3-C3N	EPB-63Se/3-C3N	
	4	EPB-63Me/3-C4N	EPB-63Ne/3-C4N	EPB-63Se/3-C4N	
	6	EPB-63Me/3-C6N	EPB-63Ne/3-C6N	EPB-63Se/3-C6N	
	10	EPB-63Me/3-C10N	EPB-63Ne/3-C10N	EPB-63Se/3-C10N	
	13	EPB-63Me/3-C13N	EPB-63Ne/3-C13N	EPB-63Se/3-C13N	
	16	EPB-63Me/3-C16N	EPB-63Ne/3-C16N	EPB-63Se/3-C16N	
	20	EPB-63Me/3-C20N	EPB-63Ne/3-C20N	EPB-63Se/3-C20N	
	25	EPB-63Me/3-C25N	EPB-63Ne/3-C25N	EPB-63Se/3-C25N	
	32	EPB-63Me/3-C32N	EPB-63Ne/3-C32N	EPB-63Se/3-C32N	
	40	EPB-63Me/3-C40N	EPB-63Ne/3-C40N	EPB-63Se/3-C40N	
	50	EPB-63Me/3-C50N	EPB-63Ne/3-C50N	EPB-63Se/3-C50N	
	63	EPB-63Me/3-C63N	EPB-63Ne/3-C63N	EPB-63Se/3-C63N	
 EPB-63Me-4P	1	EPB-63Me/4-C1	EPB-63Ne/4-C1	EPB-63Se/4-C1	3
	2	EPB-63Me/4-C2	EPB-63Ne/4-C2	EPB-63Se/4-C2	
	3	EPB-63Me/4-C3	EPB-63Ne/4-C3	EPB-63Se/4-C3	
	4	EPB-63Me/4-C4	EPB-63Ne/4-C4	EPB-63Se/4-C4	
	6	EPB-63Me/4-C6	EPB-63Ne/4-C6	EPB-63Se/4-C6	
	10	EPB-63Me/4-C10	EPB-63Ne/4-C10	EPB-63Se/4-C10	
	13	EPB-63Me/4-C13	EPB-63Ne/4-C13	EPB-63Se/4-C13	
	16	EPB-63Me/4-C16	EPB-63Ne/4-C16	EPB-63Se/4-C16	
	20	EPB-63Me/4-C20	EPB-63Ne/4-C20	EPB-63Se/4-C20	
	25	EPB-63Me/4-C25	EPB-63Ne/4-C25	EPB-63Se/4-C25	
	32	EPB-63Me/4-C32	EPB-63Ne/4-C32	EPB-63Se/4-C32	
	40	EPB-63Me/4-C40	EPB-63Ne/4-C40	EPB-63Se/4-C40	
	50	EPB-63Me/4-C50	EPB-63Ne/4-C50	EPB-63Se/4-C50	
	63	EPB-63Me/4-C63	EPB-63Ne/4-C63	EPB-63Se/4-C63	

EPB-63Me/Ne/Se Series Miniature Circuit Breaker

Curves



B type



C type

Overcurrent protecting characteristics

NO.	Rated current of release(A)	Initial state	Test current	Specified time	Result to be obtained	Remarks
1	1-63	cold state	1.13In	t≤1h	Non-trip	
2	1-63	upon the previous test	1.45In	t<1h	trip	Setting current up to specified value steadily in 5s
3	In≤32 In>32	cold state	2.55In	1s<t<60s 1s<t<120s	trip	
4	1-63	cold state	3In 5In	t≤0.1s t<0.1s	Non-trip trip	B type
			5In 10In	t≤0.1s t<0.1s	Non-trip trip	C type

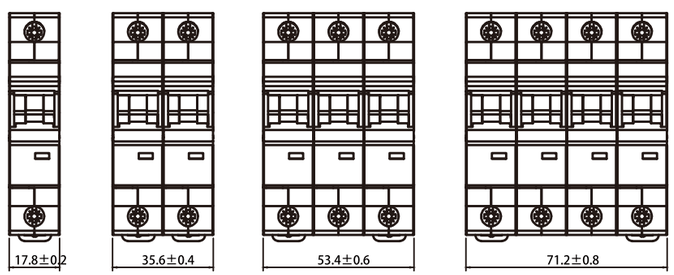
Endurance(operations)

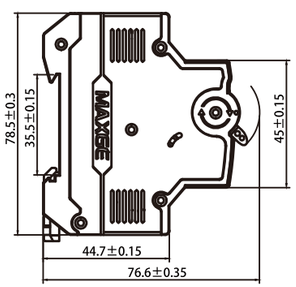
Category	Operations	Operation frequency	Rated current
Electrical endurance	4000	240/h	1-32
		120/h	40-63
Mechanical endurance	10000	240/h	1-63

Features

Much higher short circuit breaking capacity, Dual-connection convenient for both standard busbar and conductor connection. Improved safety of operators offered by special design from terminals. Much longer service life thanks to energy-storage operating mechanism.Enclosure and functional parts made from imported plastics with flame-retardant, heat-resistant, and impulse-proof properties.Higher current-limiting capacity ensuring a cost-effective range of products. Different handle color for different rated current with contactor condition indicator.

Overall and mounting dimensions





EPB-63Me/EPB-63Se/EPB-63Ne

EPB-63M/H Series Miniature Circuit Breaker

Standard	EN/IEC 60898-1 GB/T 10963.1
Breaking capacity(kA)	6,10
Protection	Against overload and short circuit
Rated current(A) In	1,2,3,4,6,10,13,16,20,25,32,40,50,63
Rated voltage(V)	1P AC 230/400,240/415
	1P+N,2P,3P,3P+N,4P AC 230/400,240/415
Rated impulse withstand voltage Uimp(kV)	4
Rated insulation voltage Ui(V)	500
Energy limiting class	3
Ambient temperature (℃)	-25~+40,Max.95%humidity
Thermal operating limit	1.13 xIn No tripping within an hour
	1.45 xIn Tripping within an hour
Magnertic operating	B:(3-5)xIn,C:(5-10)xIn,D:(10-20)xIn
Number of poles	1P,1P+N,2P,3P,3P+N and 4P
Type of trip	Thermal/ magnetic release
Terminal capacity	16mm² flexible or 25mm² rigid
Protection degree	IP20
Installation	Mounting on 35mm DIN rail
Width	17.8mm per pole
Certification	VDE KEMA EUR CE CB

EPB-63M-1P EPB-63M-2P EPB-63M-3P EPB-63M-4P

EPB-63M Series Miniature Circuit Breaker

	Rated current(A)	B curve	C curve	D curve	Packing unit
 EPB-63M-1P	1	EPB-63M/1-B1	EPB-63M/1-C1	EPB-63M/1-D1	12
	2	EPB-63M/1-B2	EPB-63M/1-C2	EPB-63M/1-D2	
	3	EPB-63M/1-B3	EPB-63M/1-C3	EPB-63M/1-D3	
	4	EPB-63M/1-B4	EPB-63M/1-C4	EPB-63M/1-D4	
	6	EPB-63M/1-B6	EPB-63M/1-C6	EPB-63M/1-D6	
	10	EPB-63M/1-B10	EPB-63M/1-C10	EPB-63M/1-D10	
	13	EPB-63M/1-B13	EPB-63M/1-C13	EPB-63M/1-D13	
	16	EPB-63M/1-B16	EPB-63M/1-C16	EPB-63M/1-D16	
	20	EPB-63M/1-B20	EPB-63M/1-C20	EPB-63M/1-D20	
	25	EPB-63M/1-B25	EPB-63M/1-C25	EPB-63M/1-D25	
	32	EPB-63M/1-B32	EPB-63M/1-C32	EPB-63M/1-D32	
	40	EPB-63M/1-B40	EPB-63M/1-C40	EPB-63M/1-D40	
	50	EPB-63M/1-B50	EPB-63M/1-C50	EPB-63M/1-D50	
	63	EPB-63M/1-B63	EPB-63M/1-C63	EPB-63M/1-D63	
EPB-63M-1P+N	1	EPB-63M/1-B1N	EPB-63M/1-C1N	EPB-63M/1-D1N	6
	2	EPB-63M/1-B2N	EPB-63M/1-C2N	EPB-63M/1-D2N	
	3	EPB-63M/1-B3N	EPB-63M/1-C3N	EPB-63M/1-D3N	
	4	EPB-63M/1-B4N	EPB-63M/1-C4N	EPB-63M/1-D4N	
	6	EPB-63M/1-B6N	EPB-63M/1-C6N	EPB-63M/1-D6N	
	10	EPB-63M/1-B10N	EPB-63M/1-C10N	EPB-63M/1-D10N	
	13	EPB-63M/1-B13N	EPB-63M/1-C13N	EPB-63M/1-D13N	
	16	EPB-63M/1-B16N	EPB-63M/1-C16N	EPB-63M/1-D16N	
	20	EPB-63M/1-B20N	EPB-63M/1-C20N	EPB-63M/1-D20N	
	25	EPB-63M/1-B25N	EPB-63M/1-C25N	EPB-63M/1-D25N	
	32	EPB-63M/1-B32N	EPB-63M/1-C32N	EPB-63M/1-D32N	
	40	EPB-63M/1-B40N	EPB-63M/1-C40N	EPB-63M/1-D40N	
	50	EPB-63M/1-B50N	EPB-63M/1-C50N	EPB-63M/1-D50N	
	63	EPB-63M/1-B63N	EPB-63M/1-C63N	EPB-63M/1-D63N	
 EPB-63M-2P	1	EPB-63M/2-B1	EPB-63M/2-C1	EPB-63M/2-D1	6
	2	EPB-63M/2-B2	EPB-63M/2-C2	EPB-63M/2-D2	
	3	EPB-63M/2-B3	EPB-63M/2-C3	EPB-63M/2-D3	
	4	EPB-63M/2-B4	EPB-63M/2-C4	EPB-63M/2-D4	
	6	EPB-63M/2-B6	EPB-63M/2-C6	EPB-63M/2-D6	
	10	EPB-63M/2-B10	EPB-63M/2-C10	EPB-63M/2-D10	
	13	EPB-63M/2-B13	EPB-63M/2-C13	EPB-63M/2-D13	
	16	EPB-63M/2-B16	EPB-63M/2-C16	EPB-63M/2-D16	
	20	EPB-63M/2-B20	EPB-63M/2-C20	EPB-63M/2-D20	
	25	EPB-63M/2-B25	EPB-63M/2-C25	EPB-63M/2-D25	
	32	EPB-63M/2-B32	EPB-63M/2-C32	EPB-63M/2-D32	
	40	EPB-63M/2-B40	EPB-63M/2-C40	EPB-63M/2-D40	
	50	EPB-63M/2-B50	EPB-63M/2-C50	EPB-63M/2-D50	
	63	EPB-63M/2-B63	EPB-63M/2-C63	EPB-63M/2-D63	

EPB-63M Series Miniature Circuit Breaker

	Rated current(A)	B curve	C curve	D curve	Packing unit
 EPB-63M-3P	1	EPB-63M/3-B1	EPB-63M/3-C1	EPB-63M/1-D1	4
	2	EPB-63M/3-B2	EPB-63M/3-C2	EPB-63M/1-D2	
	3	EPB-63M/3-B3	EPB-63M/3-C3	EPB-63M/1-D3	
	4	EPB-63M/3-B4	EPB-63M/3-C4	EPB-63M/1-D4	
	6	EPB-63M/3-B6	EPB-63M/3-C6	EPB-63M/1-D6	
	10	EPB-63M/3-B10	EPB-63M/3-C10	EPB-63M/1-D10	
	13	EPB-63M/3-B13	EPB-63M/3-C13	EPB-63M/1-D13	
	16	EPB-63M/3-B16	EPB-63M/3-C16	EPB-63M/1-D16	
	20	EPB-63M/3-B20	EPB-63M/3-C20	EPB-63M/1-D20	
	25	EPB-63M/3-B25	EPB-63M/3-C25	EPB-63M/1-D25	
	32	EPB-63M/3-B32	EPB-63M/3-C32	EPB-63M/1-D32	
	40	EPB-63M/3-B40	EPB-63M/3-C40	EPB-63M/1-D40	
	50	EPB-63M/3-B50	EPB-63M/3-C50	EPB-63M/1-D50	
	63	EPB-63M/3-B63	EPB-63M/3-C63	EPB-63M/1-D63	
EPB-63M-3P+N	1	EPB-63M/3-B1N	EPB-63M/3-C1N	EPB-63M/3-D1N	3
	2	EPB-63M/3-B2N	EPB-63M/3-C2N	EPB-63M/3-D2N	
	3	EPB-63M/3-B3N	EPB-63M/3-C3N	EPB-63M/3-D3N	
	4	EPB-63M/3-B4N	EPB-63M/3-C4N	EPB-63M/3-D4N	
	6	EPB-63M/3-B6N	EPB-63M/3-C6N	EPB-63M/3-D6N	
	10	EPB-63M/3-B10N	EPB-63M/3-C10N	EPB-63M/3-D10N	
	13	EPB-63M/3-B13N	EPB-63M/3-C13N	EPB-63M/3-D13N	
	16	EPB-63M/3-B16N	EPB-63M/3-C16N	EPB-63M/3-D16N	
	20	EPB-63M/3-B20N	EPB-63M/3-C20N	EPB-63M/3-D20N	
	25	EPB-63M/3-B25N	EPB-63M/3-C25N	EPB-63M/3-D25N	
	32	EPB-63M/3-B32N	EPB-63M/3-C32N	EPB-63M/3-D32N	
	40	EPB-63M/3-B40N	EPB-63M/3-C40N	EPB-63M/3-D40N	
	50	EPB-63M/3-B50N	EPB-63M/3-C50N	EPB-63M/3-D50N	
	63	EPB-63M/3-B63N	EPB-63M/3-C63N	EPB-63M/3-D63N	
 EPB-63M-4P	1	EPB-63M/4-B1	EPB-63M/4-C1	EPB-63M/4-D1	3
	2	EPB-63M/4-B2	EPB-63M/4-C2	EPB-63M/4-D2	
	3	EPB-63M/4-B3	EPB-63M/4-C3	EPB-63M/4-D3	
	4	EPB-63M/4-B4	EPB-63M/4-C4	EPB-63M/4-D4	
	6	EPB-63M/4-B6	EPB-63M/4-C6	EPB-63M/4-D6	
	10	EPB-63M/4-B10	EPB-63M/4-C10	EPB-63M/4-D10	
	13	EPB-63M/4-B13	EPB-63M/4-C13	EPB-63M/4-D13	
	16	EPB-63M/4-B16	EPB-63M/4-C16	EPB-63M/4-D16	
	20	EPB-63M/4-B20	EPB-63M/4-C20	EPB-63M/4-D20	
	25	EPB-63M/4-B25	EPB-63M/4-C25	EPB-63M/4-D25	
	32	EPB-63M/4-B32	EPB-63M/4-C32	EPB-63M/4-D32	
	40	EPB-63M/4-B40	EPB-63M/4-C40	EPB-63M/4-D40	
	50	EPB-63M/4-B50	EPB-63M/4-C50	EPB-63M/4-D50	
	63	EPB-63M/4-B63	EPB-63M/4-C63	EPB-63M/4-D63	

EPB-63H Series Miniature Circuit Breaker

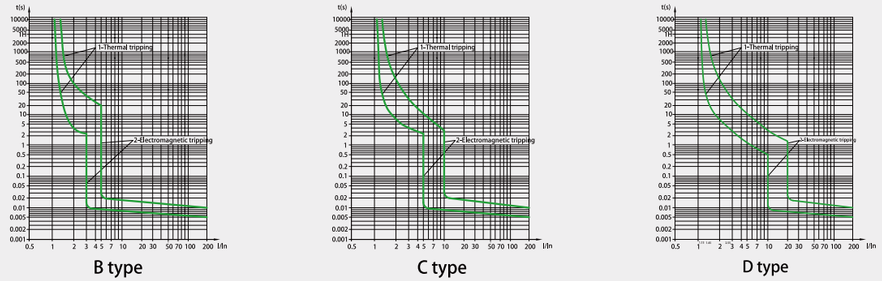
	Rated current(A)	B curve	C curve	D curve	Packing unit
 EPB-63H-1P	1	EPB-63H/1-B1	EPB-63H/1-C1	EPB-63H/1-D1	12
	2	EPB-63H/1-B2	EPB-63H/1-C2	EPB-63H/1-D2	
	3	EPB-63H/1-B3	EPB-63H/1-C3	EPB-63H/1-D3	
	4	EPB-63H/1-B4	EPB-63H/1-C4	EPB-63H/1-D4	
	6	EPB-63H/1-B6	EPB-63H/1-C6	EPB-63H/1-D6	
	10	EPB-63H/1-B10	EPB-63H/1-C10	EPB-63H/1-D10	
	13	EPB-63H/1-B13	EPB-63H/1-C13	EPB-63H/1-D13	
	16	EPB-63H/1-B16	EPB-63H/1-C16	EPB-63H/1-D16	
	20	EPB-63H/1-B20	EPB-63H/1-C20	EPB-63H/1-D20	
	25	EPB-63H/1-B25	EPB-63H/1-C25	EPB-63H/1-D25	
	32	EPB-63H/1-B32	EPB-63H/1-C32	EPB-63H/1-D32	
	40	EPB-63H/1-B40	EPB-63H/1-C40	EPB-63H/1-D40	
	50	EPB-63H/1-B50	EPB-63H/1-C50	EPB-63H/1-D50	
	63	EPB-63H/1-B63	EPB-63H/1-C63	EPB-63H/1-D63	
 EPB-63H-1P+N	1	EPB-63H/1-B1N	EPB-63H/1-C1N	EPB-63H/1-D1N	6
	2	EPB-63H/1-B2N	EPB-63H/1-C2N	EPB-63H/1-D2N	
	3	EPB-63H/1-B3N	EPB-63H/1-C3N	EPB-63H/1-D3N	
	4	EPB-63H/1-B4N	EPB-63H/1-C4N	EPB-63H/1-D4N	
	6	EPB-63H/1-B6N	EPB-63H/1-C6N	EPB-63H/1-D6N	
	10	EPB-63H/1-B10N	EPB-63H/1-C10N	EPB-63H/1-D10N	
	13	EPB-63H/1-B13N	EPB-63H/1-C13N	EPB-63H/1-D13N	
	16	EPB-63H/1-B16N	EPB-63H/1-C16N	EPB-63H/1-D16N	
	20	EPB-63H/1-B20N	EPB-63H/1-C20N	EPB-63H/1-D20N	
	25	EPB-63H/1-B25N	EPB-63H/1-C25N	EPB-63H/1-D25N	
	32	EPB-63H/1-B32N	EPB-63H/1-C32N	EPB-63H/1-D32N	
	40	EPB-63H/1-B40N	EPB-63H/1-C40N	EPB-63H/1-D40N	
	50	EPB-63H/1-B50N	EPB-63H/1-C50N	EPB-63H/1-D50N	
	63	EPB-63H/1-B63N	EPB-63H/1-C63N	EPB-63H/1-D63N	
 EPB-63H-2P	1	EPB-63H/2-B1	EPB-63H/2-C1	EPB-63H/2-D1	6
	2	EPB-63H/2-B2	EPB-63H/2-C2	EPB-63H/2-D2	
	3	EPB-63H/2-B3	EPB-63H/2-C3	EPB-63H/2-D3	
	4	EPB-63H/2-B4	EPB-63H/2-C4	EPB-63H/2-D4	
	6	EPB-63H/2-B6	EPB-63H/2-C6	EPB-63H/2-D6	
	10	EPB-63H/2-B10	EPB-63H/2-C10	EPB-63H/2-D10	
	13	EPB-63H/2-B13	EPB-63H/2-C13	EPB-63H/2-D13	
	16	EPB-63H/2-B16	EPB-63H/2-C16	EPB-63H/2-D16	
	20	EPB-63H/2-B20	EPB-63H/2-C20	EPB-63H/2-D20	
	25	EPB-63H/2-B25	EPB-63H/2-C25	EPB-63H/2-D25	
	32	EPB-63H/2-B32	EPB-63H/2-C32	EPB-63H/2-D32	
	40	EPB-63H/2-B40	EPB-63H/2-C40	EPB-63H/2-D40	
	50	EPB-63H/2-B50	EPB-63H/2-C50	EPB-63H/2-D50	
	63	EPB-63H/2-B63	EPB-63H/2-C63	EPB-63H/2-D63	

EPB-63H Series Miniature Circuit Breaker

	Rated current(A)	B curve	C curve	D curve	Packing unit
 EPB-63H-3P	1	EPB-63H/3-B1	EPB-63H/3-C1	EPB-63H/1-D1	4
	2	EPB-63H/3-B2	EPB-63H/3-C2	EPB-63H/1-D2	
	3	EPB-63H/3-B3	EPB-63H/3-C3	EPB-63H/1-D3	
	4	EPB-63H/3-B4	EPB-63H/3-C4	EPB-63H/1-D4	
	6	EPB-63H/3-B6	EPB-63H/3-C6	EPB-63H/1-D6	
	10	EPB-63H/3-B10	EPB-63H/3-C10	EPB-63H/1-D10	
	13	EPB-63H/3-B13	EPB-63H/3-C13	EPB-63H/1-D13	
	16	EPB-63H/3-B16	EPB-63H/3-C16	EPB-63H/1-D16	
	20	EPB-63H/3-B20	EPB-63H/3-C20	EPB-63H/1-D20	
	25	EPB-63H/3-B25	EPB-63H/3-C25	EPB-63H/1-D25	
	32	EPB-63H/3-B32	EPB-63H/3-C32	EPB-63H/1-D32	
	40	EPB-63H/3-B40	EPB-63H/3-C40	EPB-63H/1-D40	
	50	EPB-63H/3-B50	EPB-63H/3-C50	EPB-63H/1-D50	
	63	EPB-63H/3-B63	EPB-63H/3-C63	EPB-63H/1-D63	
 EPB-63H-3P+N	1	EPB-63H/3-B1N	EPB-63H/3-C1N	EPB-63H/3-D1N	3
	2	EPB-63H/3-B2N	EPB-63H/3-C2N	EPB-63H/3-D2N	
	3	EPB-63H/3-B3N	EPB-63H/3-C3N	EPB-63H/3-D3N	
	4	EPB-63H/3-B4N	EPB-63H/3-C4N	EPB-63H/3-D4N	
	6	EPB-63H/3-B6N	EPB-63H/3-C6N	EPB-63H/3-D6N	
	10	EPB-63H/3-B10N	EPB-63H/3-C10N	EPB-63H/3-D10N	
	13	EPB-63H/3-B13N	EPB-63H/3-C13N	EPB-63H/3-D13N	
	16	EPB-63H/3-B16N	EPB-63H/3-C16N	EPB-63H/3-D16N	
	20	EPB-63H/3-B20N	EPB-63H/3-C20N	EPB-63H/3-D20N	
	25	EPB-63H/3-B25N	EPB-63H/3-C25N	EPB-63H/3-D25N	
	32	EPB-63H/3-B32N	EPB-63H/3-C32N	EPB-63H/3-D32N	
	40	EPB-63H/3-B40N	EPB-63H/3-C40N	EPB-63H/3-D40N	
	50	EPB-63H/3-B50N	EPB-63H/3-C50N	EPB-63H/3-D50N	
	63	EPB-63H/3-B63N	EPB-63H/3-C63N	EPB-63H/3-D63N	
 EPB-63H-4P	1	EPB-63H/4-B1	EPB-63H/4-C1	EPB-63H/4-D1	3
	2	EPB-63H/4-B2	EPB-63H/4-C2	EPB-63H/4-D2	
	3	EPB-63H/4-B3	EPB-63H/4-C3	EPB-63H/4-D3	
	4	EPB-63H/4-B4	EPB-63H/4-C4	EPB-63H/4-D4	
	6	EPB-63H/4-B6	EPB-63H/4-C6	EPB-63H/4-D6	
	10	EPB-63H/4-B10	EPB-63H/4-C10	EPB-63H/4-D10	
	13	EPB-63H/4-B13	EPB-63H/4-C13	EPB-63H/4-D13	
	16	EPB-63H/4-B16	EPB-63H/4-C16	EPB-63H/4-D16	
	20	EPB-63H/4-B20	EPB-63H/4-C20	EPB-63H/4-D20	
	25	EPB-63H/4-B25	EPB-63H/4-C25	EPB-63H/4-D25	
	32	EPB-63H/4-B32	EPB-63H/4-C32	EPB-63H/4-D32	
	40	EPB-63H/4-B40	EPB-63H/4-C40	EPB-63H/4-D40	
	50	EPB-63H/4-B50	EPB-63H/4-C50	EPB-63H/4-D50	
	63	EPB-63H/4-B63	EPB-63H/4-C63	EPB-63H/4-D63	

EPB-63M/H Series Miniature Circuit Breaker

Curves



B type C type D type

Overcurrent protecting characteristics

NO.	Rated current of release(A)	Initial state	Test current	Specified time	Result to be obtained	Remarks
1	1-63	cold state	1.13In	t≤1h	Non-trip	
2	1-63	upon the previous test	1.45In	t<1h	trip	Setting current up to specified value steadily in 5s
3	In≤32 In>32	cold state	2.55In	1s<t<60s 1s<t<120s	trip	
4	1-63	cold state	3In 5In 10In 10In 20In	t≤0.1s t≤0.1s t<0.1s t≤0.1s t<0.1s	Non-trip trip Non-trip trip trip	B type C type C type D type D type

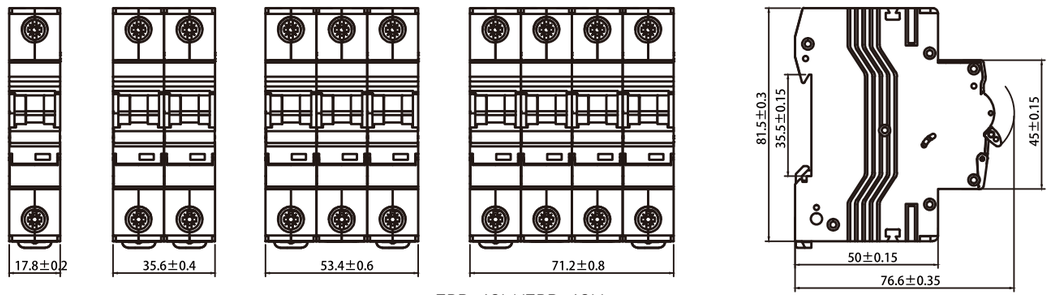
Endurance(operations)

Category	Operations	Operation frequency	Rated current
Electrical endurance	4000	240/h	1-32
		120/h	40-63
Mechanical endurance	10000	240/h	1-63

Features

Much higher short circuit breaking capacity, Dual-connection convenient for both standard busbar and conductor connection. Improved safety of operators offered by special design from terminals. Much longer service life thanks to energy-storage operating mechanism.Enclosure and functional parts made from imported plastics with flame-retardant, heat-resistant, and impulse-proof properties.Higher current-limiting capacity ensuring a cost-effective range of products. Different handle color for different rated current with contactor condition indicator.

Overall and mounting dimensions



EPB-63M/EPB-63H

EPB-63M-DC Series Miniature Circuit Breaker

Standard	IEC/EN 60947-2
Breaking capacity(kA)	6
Protection	Against overload and short circuit
Rated current(A) In	1,2,3,4,6,10,13,16,20,25,32,40,50,63
Rated voltage(V)	1P DC 120;2P,3P,4P DC 240
Operational volatge	Min.:12
Ambient temperature (℃)	-25~+40,Max.95%humidity
Thermal operating limit	1.05 xIn No tripping within an hour
	1.3 xIn Tripping within an hour
Magnertic operating	(8-12)xIn
Number of poles	1P,2P,3P and 4P
Type of trip	Thermal/ magnetic release
Terminal capacity	16mm² flexible or 25mm² rigid
Protection degree	IP20
Installation	Mounting on 35mm DIN rail
Width	17.8mm per pole
Certification	TÜV CE CB

EPB-63M-DC-1P EPB-63M-DC-2P EPB-63M-DC-3P EPB-63M-DC-4P

EPB-63M-DC Series Miniature Circuit Breaker

	Rated current(A)	DC type	Packing unit
 EPB-63M-DC-1P	1	EPB-63M/1-DC1	12
	2	EPB-63M/1-DC2	
	3	EPB-63M/1-DC3	
	4	EPB-63M/1-DC4	
	6	EPB-63M/1-DC6	
	10	EPB-63M/1-DC10	
	13	EPB-63M/1-DC13	
	16	EPB-63M/1-DC16	
	20	EPB-63M/1-DC20	
	25	EPB-63M/1-DC25	
	32	EPB-63M/1-DC32	
	40	EPB-63M/1-DC40	
	50	EPB-63M/1-DC50	
	63	EPB-63M/1-DC63	
 EPB-63M-DC-2P	1	EPB-63M/2-DC1	6
	2	EPB-63M/2-DC2	
	3	EPB-63M/2-DC3	
	4	EPB-63M/2-DC4	
	6	EPB-63M/2-DC6	
	10	EPB-63M/2-DC10	
	13	EPB-63M/2-DC13	
	16	EPB-63M/2-DC16	
	20	EPB-63M/2-DC20	
	25	EPB-63M/2-DC25	
	32	EPB-63M/2-DC32	
	40	EPB-63M/2-DC40	
	50	EPB-63M/2-DC50	
	63	EPB-63M/2-DC63	

EPB-63M-DC Series Miniature Circuit Breaker

	Rated current(A)	DC type	Packing unit
 EPB-63M-DC-3P	1	EPB-63M/3-DC1	4
	2	EPB-63M/3-DC2	
	3	EPB-63M/3-DC3	
	4	EPB-63M/3-DC4	
	6	EPB-63M/3-DC6	
	10	EPB-63M/3-DC10	
	13	EPB-63M/3-DC13	
	16	EPB-63M/3-DC16	
	20	EPB-63M/3-DC20	
	25	EPB-63M/3-DC25	
	32	EPB-63M/3-DC32	
	40	EPB-63M/3-DC40	
	50	EPB-63M/3-DC50	
	63	EPB-63M/3-DC63	
 EPB-63M-DC-4P	1	EPB-63M/4-DC1	3
	2	EPB-63M/4-DC2	
	3	EPB-63M/4-DC3	
	4	EPB-63M/4-DC4	
	6	EPB-63M/4-DC6	
	10	EPB-63M/4-DC10	
	13	EPB-63M/4-DC13	
	16	EPB-63M/4-DC16	
	20	EPB-63M/4-DC20	
	25	EPB-63M/4-DC25	
	32	EPB-63M/4-DC32	
	40	EPB-63M/4-DC40	
	50	EPB-63M/4-DC50	
	63	EPB-63M/4-DC63	

EPB-63M-DC Series Miniature Circuit Breaker

Overcurrent protecting characteristics

NO.	Rated current of release(A)	Initial state	Test current	Specified time	Result to be obtained	Remarks
1	1-63	cold state	1.05In	t≤1h	Non-trip	
2	1-63	upon the previous test	1.30In	t<1h	trip	Setting current up to specified value steadily in 5s
3	In≤32 In>32	cold state	2.55In	1s<t<60s 1s<t<120s	trip	
	1-63	cold state	8In 12In	t≤0.2s t<0.2s	Non-trip trip	C type

Endurance(operations)

Category	Operations	Operation frequency	Rated current
Electrical endurance	4000	240/h	1-32
		120/h	40-63
Mechanical endurance	10000	240/h	1-63

Features

Much higher short circuit breaking capacity, Dual-connection convenient for both standard busbar and conductor connection. Improved safety of operators offered by special design from terminals. Much longer service life thanks to energy-storage operating mechanism.Enclosure and functional parts made from imported plastics with flame-retardant, heat-resistant, and impulse-proof properties.Higher current-limiting capacity ensuring a cost-effective range of products. Different handle color for different rated current with contactor condition indicator.

Overall and mounting dimensions

EPR-63M-DC

EP-DPN Series "Phase+Neutral" Circuit Breaker

Standard	EN/IEC 60898-1
Breaking capacity(kA)	3,4.5,6
Protection	Overload and short circuit
Rated insulation voltage Ui(V)	500
Rated impulse withstand voltage Uimp(kV)	4
Rated current(A) In	2,4,6,10,13,16,20,25,32
Rated voltage(V)	AC 240
Characteristic	B,C Curve
Number of poles	1P+N
Type of trip	Thermal/magnetic release
Terminal capacity	1-10mm² wire
Protection degree	IP20
Installation	Mounting on 35mm DIN rail
Width	17.8mm per pole
Electrical endurance	4000
Mechanical endurance	10000
Altitude	≤2000m
Certification	

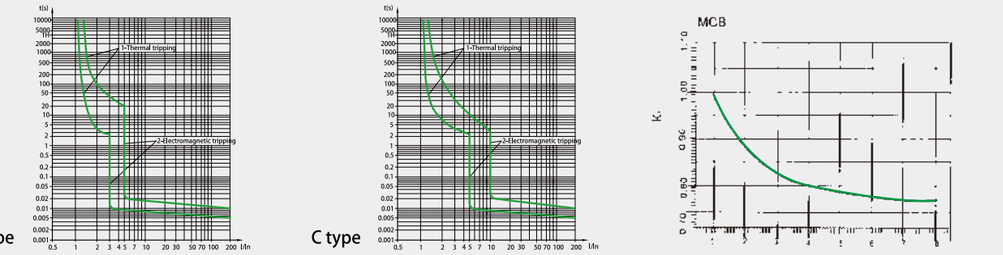
EP-DPN3K EP-DPN4.5K EP-DPN6K

EP-DPN Series "Phase+Neutral" Circuit Breaker

	Rated current(A)	B curve	C curve	Packing unit
 EP-DPN3K	2	EP-DPN3K-B2	EP-DPN3K-C2	12
	4	EP-DPN3K-B4	EP-DPN3K-C4	
	6	EP-DPN3K-B6	EP-DPN3K-C6	
	10	EP-DPN3K-B10	EP-DPN3K-C10	
	13	EP-DPN3K-B13	EP-DPN3K-C13	
	16	EP-DPN3K-B16	EP-DPN3K-C16	
	20	EP-DPN3K-B20	EP-DPN3K-C20	
	25	EP-DPN3K-B25	EP-DPN3K-C25	
	32	EP-DPN3K-B32	EP-DPN3K-C32	
 EP-DPN4.5K	2	EP-DPN4.5K-B2	EP-DPN4.5K-C2	
	4	EP-DPN4.5K-B4	EP-DPN4.5K-C4	
	6	EP-DPN4.5K-B6	EP-DPN4.5K-C6	
	10	EP-DPN4.5K-B10	EP-DPN4.5K-C10	
	13	EP-DPN4.5K-B13	EP-DPN4.5K-C13	12
	16	EP-DPN4.5K-B16	EP-DPN4.5K-C16	
	20	EP-DPN4.5K-B20	EP-DPN4.5K-C20	
	25	EP-DPN4.5K-B25	EP-DPN4.5K-C25	
	32	EP-DPN4.5K-B32	EP-DPN4.5K-C32	
 EP-DPN6K	2	EP-DPN6K-B2	EP-DPN6K-C2	12
	4	EP-DPN6K-B4	EP-DPN6K-C4	
	6	EP-DPN6K-B6	EP-DPN6K-C6	
	10	EP-DPN6K-B10	EP-DPN6K-C10	
	13	EP-DPN6K-B13	EP-DPN6K-C13	
	16	EP-DPN6K-B16	EP-DPN6K-C16	
	20	EP-DPN6K-B20	EP-DPN6K-C20	
	25	EP-DPN6K-B25	EP-DPN6K-C25	
	32	EP-DPN6K-B32	EP-DPN6K-C32	

EP-DPN Series "Phase+Neutral" Circuit Breaker

Curves



Please refer to table below for temperature compensation correction

Rated current (A)	Temperature compensation coefficient under various operational temperature														
	-20℃	-15℃	-10℃	-5℃	0℃	5℃	10℃	15℃	20℃	25℃	30℃	35℃	40℃	45℃	50℃
1	1.23	1.20	1.18	1.16	1.14	1.12	1.10	1.07	1.05	1.03	1.00	0.98	0.95	0.92	0.90
2	1.31	1.28	1.25	1.23	1.20	1.17	1.13	1.10	1.07	1.04	1.00	0.96	0.93	0.89	0.85
4	1.24	1.21	1.19	1.17	1.15	1.12	1.10	1.08	1.05	1.03	1.00	0.97	0.95	0.92	0.89
6	1.22	1.20	1.18	1.16	1.14	1.12	1.10	1.07	1.05	1.02	1.00	0.97	0.95	0.92	0.89
10	1.23	1.21	1.19	1.16	1.14	1.12	1.10	1.07	1.05	1.03	1.00	0.97	0.95	0.92	0.89
16	1.22	1.20	1.18	1.16	1.14	1.12	1.10	1.07	1.05	1.02	1.00	0.97	0.95	0.92	0.89
20	1.23	1.21	1.19	1.17	1.14	1.12	1.10	1.07	1.05	1.03	1.00	0.97	0.95	0.92	0.89
25	1.24	1.22	1.19	1.17	1.15	1.13	1.10	1.08	1.05	1.03	1.00	0.97	0.95	0.92	0.89
32	1.26	1.23	1.21	1.19	1.16	1.14	1.11	1.08	1.06	1.03	1.00	0.97	0.94	0.91	0.88

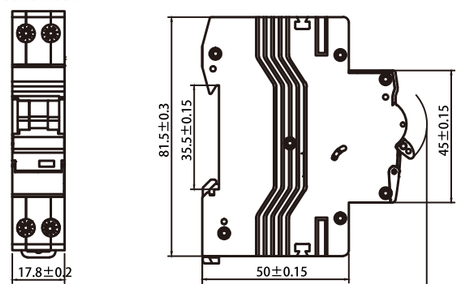
Wiring (The suitable conductors should be used for connection, see table below for relative parameters)

Rated current In(A)	Nominal cross sectional area(mm^2)	Tightening torque (N.m)
≤6	1	1.2
10	1.5	
16-20	2.5	
25	4	
32	6	

Features

Compact design and cost-effective;
Enclosure and functional parts made from imported plastics with flame-retardant,heat-resistant,and impulse-proof properties; Potential electric shock is avoided thanks to neutral-line being directly connected to the product;
Convenient and time-saving mounting.

Overall and mounting dimensions



EP-DPN

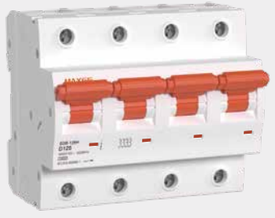
SGB-125M Series Miniature Circuit Breaker

Standard	IEC60898-1	IEC60947-2
Thermal operating limit	(1.13-1.45)xIn	(1.05-1.30)xIn
Magnetic operating	B:(3-5)xIn;C:(5-10)xIn;D:(10-20)xIn	(8-12)xIn
Protection	Against overload and short circuit	
Rated current(A) In	63,80,100,125	
Rated voltage(V)	230/400,240/415Vac for 1P ; 400/415Vac for 2P,3P,4P	
Rated insulation voltage Ui(V)	500	
Characteristic	B,C,D Curve	
Number of poles	1P,2P,3P,4P	
Type of trip	Thermal/ magnetic release	
Terminal capacity	Flexible cables: 1.5 to 35mm² Rigid cables: 1 to 50mm²	
Installation	Mounting on 35mm DIN rail	
Width	27mm per pole	
Certification	KEMA EUR CE CB	

SGB-125M-1P

SGB-125M-2P

SGB-125M-3P



SGB-125M-4P

SGB-125M Series Miniature Circuit Breaker

	Rated current(A)	IEC60898-1			IEC60947-2	Packing unit
		B curve	C curve	D curve		
 SGB-125M-1P	63	SGB-125M/1-B63	SGB-125M/1-C63	SGB-125M/1-D63	SGB-125M/1-63	12
	80	SGB-125M/1-B80	SGB-125M/1-C80	SGB-125M/1-D80	SGB-125M/1-80	
	100	SGB-125M/1-B100	SGB-125M/1-C100	SGB-125M/1-D100	SGB-125M/1-100	
	125	SGB-125M/1-B125	SGB-125M/1-C125	SGB-125M/1-D125	SGB-125M/1-125	
 SGB-125M-2P	63	SGB-125M/2-B63	SGB-125M/2-C63	SGB-125M/2-D63	SGB-125M/2-63	6
	80	SGB-125M/2-B80	SGB-125M/2-C80	SGB-125M/2-D80	SGB-125M/2-80	
	100	SGB-125M/2-B100	SGB-125M/2-C100	SGB-125M/2-D100	SGB-125M/2-100	
	125	SGB-125M/2-B125	SGB-125M/2-C125	SGB-125M/2-D125	SGB-125M/2-125	
 SGB-125M-3P	63	SGB-125M/3-B63	SGB-125M/3-C63	SGB-125M/3-D63	SGB-125M/3-63	4
	80	SGB-125M/3-B80	SGB-125M/3-C80	SGB-125M/3-D80	SGB-125M/3-80	
	100	SGB-125M/3-B100	SGB-125M/3-C100	SGB-125M/3-D100	SGB-125M/3-100	
	125	SGB-125M/3-B125	SGB-125M/3-C125	SGB-125M/3-D125	SGB-125M/3-125	
 SGB-125M-4P	63	SGB-125M/4-B63	SGB-125M/4-C63	SGB-125M/4-D63	SGB-125M/4-63	3
	80	SGB-125M/4-B80	SGB-125M/4-C80	SGB-125M/4-D80	SGB-125M/4-80	
	100	SGB-125M/4-B100	SGB-125M/4-C100	SGB-125M/4-D100	SGB-125M/4-100	
	125	SGB-125M/4-B125	SGB-125M/4-C125	SGB-125M/4-D125	SGB-125M/4-125	

SGB-125M Series Miniature Circuit Breaker

Breaking capacity

Standard	IEC60898-1			IEC60947-2		
Breaking capacity level	H	M	L	H	M	L
Icn（KA）	15	10	6	20	15	10
Ics（KA）	10	7.5	6	15	10	7.5

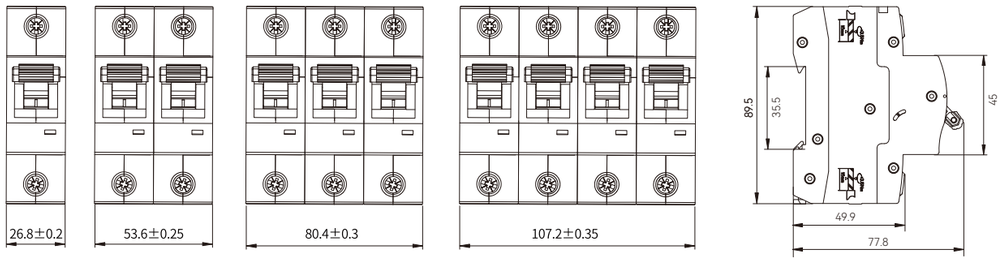
Wiring (The suitable conductors should be used for connection, see table below for relative parameters)

Rated current In(A)	Nominal cross section area s(mm²)	Tightening torque (N.m)
63	16	3.5
80	25	
100	35	
125	50	

Features

- Service life of product has been greatly enhanced through special designed tripping mechanism.
- Long-time and reliable operation.
- Enclosure and functional parts made from imported plastics with flame-retardant, heat-resistant, and impulse-proof properties.
- Compact and modularized design.
- Convenient mounting.
- A wide range of RCD and RCBO.
- Full sets of additional components and full sets of accessories.

Overall and mounting dimensions



SGB-125M

EPI-R Series Isolating Switch

Standard	EN/IEC 60947-3
Number of poles	1P,2P,3P,4P
Rated currents	16,20,25,32,40,50,63,80,100,125A
Rated voltage(V)	1P AC 240 2,3,4P AC 415
Utilization category	AC-22A
Rated short-time withstand current Icw(Ie)	12Ie/1s
Rated short-circuit making capacity Icm(Ie)	12Ie/0.1s
Rated making & breaking capacity	3Ie,1.05Ue,COSΦ=0.65
Rated insulation voltage Ui(V)	690
Rated impulse withstand voltage Uimp(kV)	6
Electrical endurance	1500
Mechanical endurance	8500
Terminal capacity	Cables up to 35 mm²
Ambient temperature(℃)	-25~+40,Max.95%humidity
Storage temperature(℃)	-20~+60
Altitude (meters)	Max. 2000
Protection degree	IP20
Installation	Mounting on 35mm DIN rail
Width	17.8mm per pole
Certification	Intertek CE CB

EPI-R-1P EPI-R-2P EPI-R-3P EPI-R-4P

EPI-R Series Isolating Switch

	Rated current(A)	IEC60898-1	Packing unit
 EPI-R-1P	16	EPI-R-16/1	12
	20	EPI-R-20/1	
	25	EPI-R-25/1	
	32	EPI-R-32/1	
	40	EPI-R-40/1	
	50	EPI-R-50/1	
	63	EPI-R-63/1	
	80	EPI-R-80/1	
	100	EPI-R-100/1	
	125	EPI-R-125/1	
 EPI-R-2P	16	EPI-R-16/2	6
	20	EPI-R-20/2	
	25	EPI-R-25/2	
	32	EPI-R-32/2	
	40	EPI-R-40/2	
	50	EPI-R-50/2	
	63	EPI-R-63/2	
	80	EPI-R-80/2	
	100	EPI-R-100/2	
	125	EPI-R-125/2	
 EPI-R-3P	16	EPI-R-16/3	4
	20	EPI-R-20/3	
	25	EPI-R-25/3	
	32	EPI-R-32/3	
	40	EPI-R-40/3	
	50	EPI-R-50/3	
	63	EPI-R-63/3	
	80	EPI-R-80/3	
	100	EPI-R-100/3	
	125	EPI-R-125/3	
 EPI-R-4P	16	EPI-R-16/4	3
	20	EPI-R-20/4	
	25	EPI-R-25/4	
	32	EPI-R-32/4	
	40	EPI-R-40/4	
	50	EPI-R-50/4	
	63	EPI-R-63/4	
	80	EPI-R-80/4	
	100	EPI-R-100/4	
	125	EPI-R-125/4	

EPI-R Series Isolating Switch

Endurance(operations)

Category	Operations	Operation frequency	Rated current
Electrical enduranc	1500	120/h	16~125A
Mechanical endurance	8500	120/h	16~125A

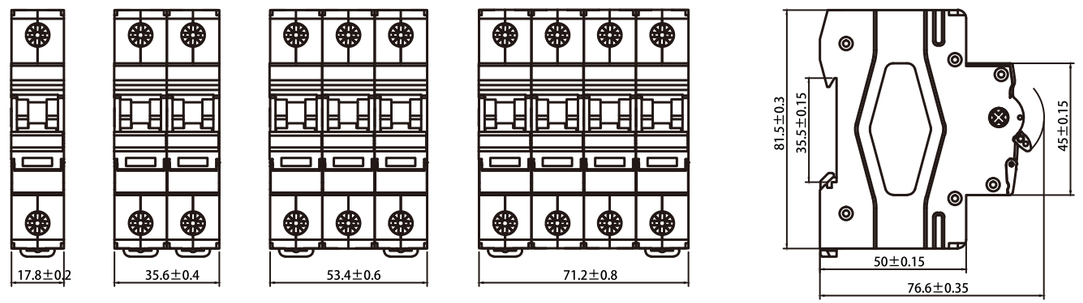
Wiring (The suitable conductors should be used for connection, see table below for relative parameters)

Rated current In(A)	Nominal cross section area s(mm^2)	Tightening torque (N.m)
16	2.5	2.5
20	2.5	
25	4	
32	6	
40	10	
50	10	
63	16	
80	35	
100	35	
125	50	3.5

Features

- Current capacity is enhanced and electric drive compensation is fully applied.
- Reliable operation thanks to special designed operating mechanism.
- Safe operation is ensured.

Overall and mounting dimensions



EPI-R

MCB Accessories SERIES

EPBA Series MCB Accessory
EPSO Series Door Bell
EPSL Series Indicating Light

MAXGE

EPBA Series	Circuit Breaker Accessories
Rated voltage(V)	AC 230
Rated frequency(Hz)	50/60Hz
Ambient temperature(℃)	-25~+40,Max.95%humidity
Storage temprature (℃)	-20~+60
Electric endurance	4000
Mechanical endurance	10000
Protection degree	IP20

EPBA-OF　EPBA-SD　EPBA-MN　EPBA-MX　EPB-63M-1P

EPBA Series Circuit Breaker Accessories

Application

Applicable to MCB model EPB-63,used to control remote signaling device.

OF MX EPB-63M

Combination scheme

OF	EPB-63

OF	MX	EPB-63

OF Auxiliary Contact

Type code	Rated voltage (V)	Rated current (A)
AC-12	230	4
AC-14	230	2
DC-12	110	0.5
DC-14	48	1

- Dielectric strength: 1500V/1 min
- Electro-mechanical endurance:≥5000
- Mounted on the left side of the MCB EPB-63,indicating "ON", "OFF" status of combined MCB.

MX Shunt Tripper

Type code	Rated voltage (V)
AC	AC 230V
AC	AC 400V
DC	DC 24V
DC	DC 48V

- Rated insulation voltage(Ui): 500V
- Operate voltage range: 70-110% Us
- Dielectric strength: 2kV/1 min
- Electro-mechanical endurance:≥4000
- Mounting on the left side of MCB/RCBO, used to trip the combined MCB/RCBO by remote controlling device.

EPBA Series Circuit Breaker Accessories

Application

Applicable to MCB model EPB-63,used to control remote signaling device.

SD MN EPB-63M

Combination scheme

SD	EPB-63

SD	MN	EPB-63

SD Alarm Switch

Type code	Rated voltage (V)	Rated current (A)
AC-12	230	4
AC-14	230	2
DC-12	110	0.5
DC-14	48	1

- Dielectric strength: 1500V/1 min
- Electro-mechanical endurance:≥5000
- Is used to connect ON/OFF auxiliary contact, work as circuit breaker ON/OFF indicator in case of faulty (tripping).

MN Over-voltage/Under-voltage Tripper

Type code	Rated voltage (V)
MN230V	AC 230

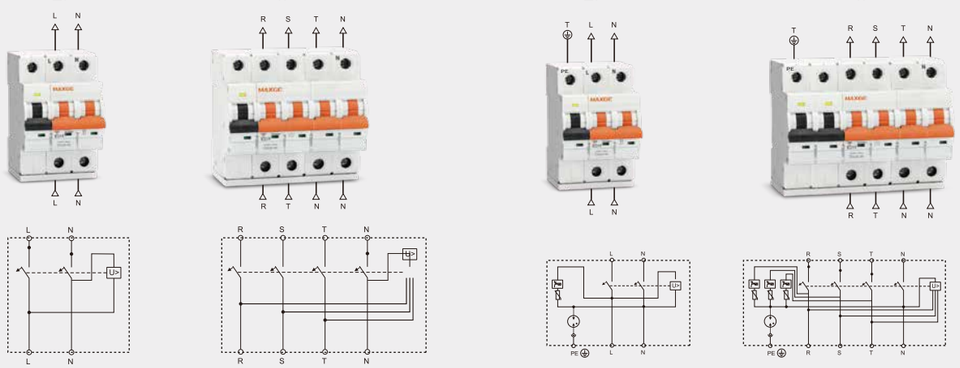
- Rated insulation voltage(Ui): 500V
- Over-voltage tripping range: 280V±5%
- Under-voltage tripping range: 170V±5%
- Electro-mechanicalendurance:≥ 4000
- Mounted on the left side of circuit breaker, actuate the combined device to trip in case of under-voltage or over-voltage, effectively prevent the device from closing operation under abnormal power voltage condition.

EPBA Series Circuit Breaker Accessories

Technical data

Code NO.	 UVT		 UVT+SPD		
Current	1-63A				
Dimension	Poles: 2P 4P Size: 54mm 90mm		Poles: 2P 4P Size: 54mm 108mm		
Capacity	4.5kA,6kA,10kA				
Standard values of break time and non-actuating time at a voltage(U_a)					
	250 V	275 V	300 V	350 V	400 V
Maximum break time	No tripping	15 s	3 s	0.75 s	0.2s
Minimum non-actuating time		3 s	1 s	0.25 s	0.1s
Wire diagram					

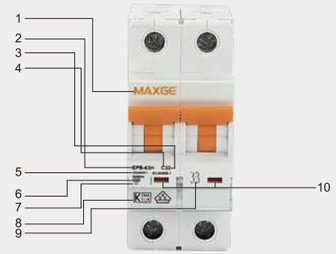
2P 4P 2P 4P



UVT UVT+SPD

Benefits

1.Brand
2.Type
3. Rated current
4. Tripping type
5. Rated voltage
6. Breaking capacity
7. Energy Limiting
8.Approval
9.Electrical wiring diagram
10.ON/OFFindication



■ **Attractive device design**
■ **Easily recognized, color-coded switching position**
■ **Indication integrated in the handle.**

■ **Well matched with RCCB EPR-2**

■ **Well matched with Isolator EPI-R**

■ **Auxiliary contacts can be added on the left side of the MCB**

■ **Ergonomic handle for user-friendly switching**

■ **Safety terminal:**
- easy wiring
- protection degree IP20.
■ **Pozidriv and slot screw head. Torque up to 2.5 N.m.**

■ **MCB and RCCB can be connected with PIN type busbar both at the top and bottom terminals.with easy DIN-rail extraction.**

■ **MCB and RCCB can be connected with FORK type busbar both at the top and bottom terminals.with easy DIN-rail extraction.**

EPSO Series — Door Bell

Standard	EN/IEC 61558-1
Electric ratings	8V,12V,24V,110V,230V 50/60Hz
Installation class	II & III
Pollution grade	II
Working condition	Short-time working
Degree of protection	IP20
Mounting	35mm DI Nrail

EPTF-8 Series — Transformer

Standard	EN/IEC 61558
Input voltage(V)	AC 230
Output voltage(V)	4,6,8,12,16,24
Rated power outpu	8VA
Consumption(W)	1.15
Pollution class	I
Mounting	35mm DIN rail
Service period	Continuous operating
Connection terminals	Pillar terminal with clamp
Connection capacity	Rigid conductor 10mm²
Terminal Connection Height	H=15.5mm

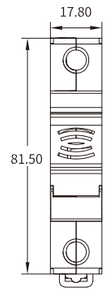
EPSO

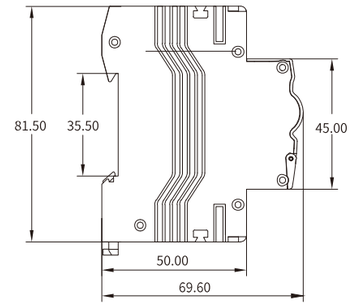
EPTF-8

EPSO Series — Door Bell

Operational voltage(V)	Code NO.	Capacity (VA)	Noise level	Packing unit
8	EPSO-8	4.8	78dB	12
12	EPSO-12	4.8		
24	EPSO-24	4.8		
110	EPSO-110	4.4		
230	EPSO-230	4.0		

Overall and mounting dimensions

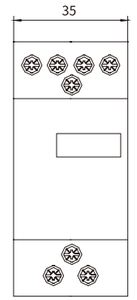


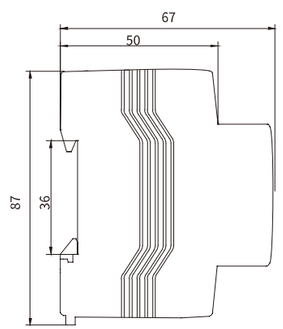


EPTF-8 Series — Transformer

Rated output power P2(VA)	Code NO.	Rated voltage		Current w/o Load Io(A)	Power consumption w/o Load Po(W)	Coil Temperature rising(℃)
		Primary U1(V)	Secondary U2(U)			
8	EPTF-8-4	230(240)	4	36±6	1.15	50
	EPTF-8-6		6			
	EPTF-8-8		8			
	EPTF-8-12		12			
	EPTF-8-16		16			
	EPTF-8-24		24			

Overall and mounting dimensions





EPSL-1 Series Indicating Light

Standard	EN/IEC60947-5-1
Rated current AC12(A)	20
Electric ratings	Up to AC 230 50/60Hz
Rated insulation Voltage Ui(V)	500
illumination	LED,Incandescence,neon
Life	Incandescence lamp ≥1000h Neon lamp ≥2000h LED ≥30000h
Ambient temperature(℃)	-5~+40,max.95% humidity
Storage temperature(℃)	-40~+75
Connection capacity(mm^2)	1-16
Color	Green,red,yellow,blue,white
Type of terminal	Pin type and Lug type
Protection degree	IP20
Mounting	35mm DIN rail

EPSL-1 Red

EPSL-1 Yellow

EPSL-1 Green

EPSL-1 Series Indicating Light

	Rated current(A)	B curve	illumination	Color	Packing unit
 EPSL-1 Red	AC/DC 6.3V	EPSL-1-G-L6	Neon incandescence LED	Green	12
	AC/DC 12V	EPSL-1-G-L12			
	AC/DC 24V	EPSL-1-G-L24			
	AC/DC 110V	EPSL-1-G-L110			
	AC/DC 230V	EPSL-1-G-L230			
	AC/DC 6.3V	EPSL-1-R-L6	Neon incandescence LED	Red	12
	AC/DC 12V	EPSL-1-R-L12			
	AC/DC 24V	EPSL-1-R-L24			
	AC/DC 110V	EPSL-1-R-L110			
	AC/DC 230V	EPSL-1-R-L230			
 EPSL-1 Yellow	AC/DC 6.3V	EPSL-1-Y-L6	Neon incandescence LED	Yellow	12
	AC/DC 12V	EPSL-1-Y-L12			
	AC/DC 24V	EPSL-1-Y-L24			
	AC/DC 110V	EPSL-1-Y-L110			
	AC/DC 230V	EPSL-1-Y-L230			
 EPSL-1 Green	AC/DC 6.3V	EPSL-1-B-L6	Neon incandescence LED	Blue	12
	AC/DC 12V	EPSL-1-B-L12			
	AC/DC 24V	EPSL-1-B-L24			
	AC/DC 110V	EPSL-1-B-L110			
	AC/DC 230V	EPSL-1-B-L230			
	AC/DC 6.3V	EPSL-1-W-L6	Neon incandescence LED	White	12
	AC/DC 12V	EPSL-1-W-L12			
	AC/DC 24V	EPSL-1-W-L24			
	AC/DC 110V	EPSL-1-W-L110			
	AC/DC 230V	EPSL-1-W-L230			

EPSL-2 Series Indicating Light With Two Lights

Standard	EN/IEC60947-5-1
Rated current AC12(A)	20
Electric ratings	Up to AC 230V 50/60Hz
Rated insulation Voltage Ui(V)	500
illumination	LED,Incandescence,neon
Life	Incandescence lamp ≥1000h Neon lamp ≥2000h LED ≥30000h
Ambient temperature(℃)	-5~+40,max.95% humidity
Storage temperature(℃)	-40~+75
Connection capacity(mm^2)	1-16
Color	Red+Green
Type of terminal	Pin type
Protection degree	IP20
Mounting	35mm DIN rail

EPSL-3 Series Indicating Light With Three Lights

Standard	EN/IEC60947-5-1
Rated current AC12(A)	20
Electric ratings	Up to AC 230V 50/60Hz
Rated insulation Voltage Ui(V)	500
illumination	LED,Incandescence,neon
Life	Incandescence lamp ≥1000h Neon lamp ≥2000h LED ≥30000h
Ambient temperature(℃)	-5~+40,max.95% humidity
Storage temperature(℃)	-40~+75
Connection capacity(mm^2)	1-16
Color	Red+Blue+Green
Type of terminal	Pin type
Protection degree	IP20
Mounting	35mm DIN rail

Modular Contactor SERIES

EPC1 Series Modular Contactor

MAXGE

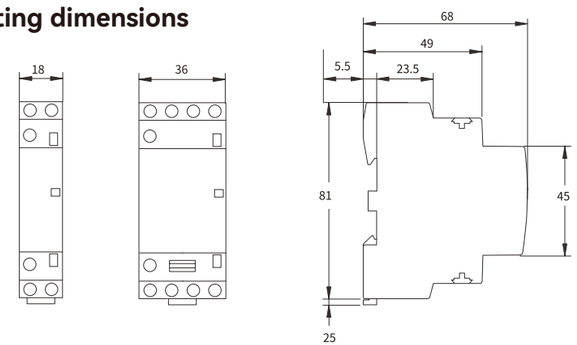
EPC1 Series	Modular Contactor
Standard	EN/IEC 61095
Maximum power	AC1220/230VAC:20A4.5KW(EPC1-20) 25A16KW(EPC1-25) AC-1/AC-7a 380/400VAC: 63A 40KW(EPC1-63) AC-3/AC-7b 380/400VAC:25A 15KW(EPC1-63) 4KW(EPC1-25)
Main contacts terminal capacity	1.5-6mm²(EPC1-10/16/20/25A) 6-16mm²(EPC1-40/63A)
Coil contact A1,A2 terminal capacity	0.75-2.5mm²
Electric endurance	≥100,000
Mechanical endurance	≥5000,000
Protection degree	IP20
Terminal tightening torque(N.m)	0.8-3.5
Ambient temperature (℃)	-5~+60,max.95% humidity
Storage temperature(℃)	-40~+75
Connection capacity(mm²)	1.5-16
Certification	TÜV CE CB

EPC1-2P(10A-25A) EPC1-2P(32A-63A) EPC1-4P(10A-25A) EPC1-4P(32A-63A)

EPC1 Series Modular Contactor

	Code NO.	Rated current In(A)		Contact position	Control voltage (Vac)	Rated control power in (kW)	
		Ac-7a/Ac-1	Ac-7b/Ac-1			Ac-7a/230V	Ac-7b/230V
 EPC1-2P(10A-25A)	EPC1-10-11	10	4	1NO+1NC	240	2	0.75
	EPC1-10-20			2NO			
	EPC1-10-02			2NC			
	EPC1-16-11	16	6	1NO+1NC		3.2	1.0
	EPC1-16-20			2NO			
	EPC1-16-02			2NC			
	EPC1-20-11	20	7	1NO+1NC		4	1.2
	EPC1-20-20			2NO			
	EPC1-20-02			2NC			
	EPC1-25-11	25	9	1NO+1NC		5	1.4
	EPC1-25-20			2NO			
	EPC1-25-02			2NC			
 EPC1-4P(10A-25A)	EPC1-10-22	10	4	2NO+2NC		6.2	2.2
	EPC1-10-31			3NO+INC			
	EPC1-10-40			4NO			
	EPC1-10-04			4NC			
	EPC1-16-22	16	6	2NO+2NC		10	3
	EPC1-16-31			3NO+INC			
	EPC1-16-40			4NO			
	EPC1-16-04			4NC			
	EPC1-20-22	20	7	2NO+2NC		13	3.5
	EPC1-20-31			3NO+INC			
	EPC1-20-40			4NO			
	EPC1-20-04			4NC			
	EPC1-25-22	25	9	2NO+2NC		15	4
	EPC1-25-31			3NO+INC			
	EPC1-25-40			4NO			
	EPC1-25-04			4NC			

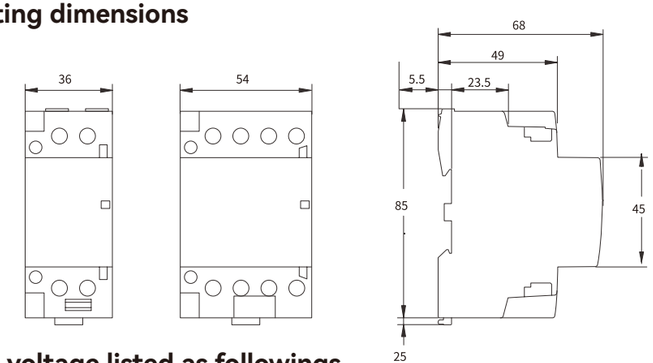
Overall and mounting dimensions



EPC1 Series Modular Contactor

	Code NO.	Rated current In(A)		Contact position	Control voltage (Vac)	Rated control power in (kW)	
		Ac-7a/Ac-1	Ac-7b/Ac-1			Ac-7a/400V	Ac-7b/400V
 EPC1-2P(32A-63A)	EPC1-32-11	32	12	1NO+1NC	240	6.5	2
	EPC1-32-20			2NO			
	EPC1-32-02			2NC			
	EPC1-40-11	40	15	1NO+1NC		8.5	2.5
	EPC1-40-20			2NO			
	EPC1-40-02			2NC			
	EPC1-63-11	63	25	1NO+1NC		13	4
	EPC1-63-20			2NO			
	EPC1-63-02			2NC			
 EPC1-4P(32A-63A)	EPC1-32-22	32	12	2NO+2NC		21	6.5
	EPC1-32-31			3NO+INC			
	EPC1-32-40			4NO			
	EPC1-32-04			4NC			
	EPC1-40-22	40	15	2NO+2NC		26	7.5
	EPC1-40-31			3NO+INC			
	EPC1-40-40			4NO			
	EPC1-40-04			4NC			
	EPC1-63-22	63	25	2NO+2NC		40	13
	EPC1-63-31			3NO+INC			
	EPC1-63-40			4NO			
	EPC1-63-04			4NC			

Overall and mounting dimensions



Refer to other coil voltage listed as followings

Coil voltage(V)	24	36	48	110	127	220	230	240	380	415	440	480	500	600	660
50Hz	B5	C5	E5	F5	G5	M5	P5	U5	Q5	N5	R5	T5	S5	-	Y5
60Hz	B6	-	E6	F6	G6	M6	P6	U6	Q6	N6	R6	T6	-	B6	-
50/60Hz	B7	C7	E7	F7	G7	M7	P7	U7	Q7	N7	R7	T7	-	-	-

SPD SERIES

Surge Protective Device

MAXGE

EPS1 Series	Surge Protective Device
Standard	IEC 61643-11
Protection	Protect electric system and on-loading electrical apparatus from thunder and instanteous over-voltage
Ambient temperature(℃)	-40℃~+70℃
Number of poles	2P,4P
Maximum continuous Operating voltage Uc(V~)	275/320/385
Nominal discharge current In (kA)	20
Maximum discharge current Imax (kA)	40
Protection level Up(kV)	1.5/1.7/1.8
Response time t(ns)	25
On-Off indicating window	Green: normalfunction Red: functionless,immediate replacement required
Type of terminal	Pin type
Installation	Mounting on 35mm DIN rail
Ground system	TN-S/TN-C,TT

EPS1/2

EPS1/4

EPS1 Series Surge Protective Device

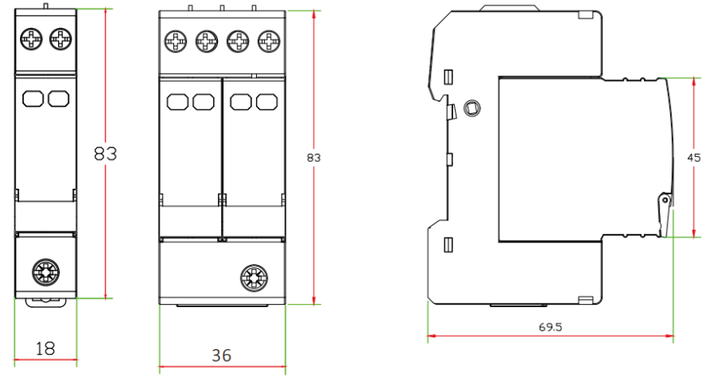
	Type	Poles	Uc(V~	Discharge current		Up (kV)	Applicable grounding system
				Nominal (kA)	Max. (kA)		
 EPS1-C/2	EPS1-C/2-275-40	2	275	20	40	<1.5	TT/TN
	EPS1-C/2-320-40		320	20	40	<1.7	
	EPS1-C/2-385-40		385	20	40	<1.8	
 EPS1-C/4	EPS1-C/4-275-40	4	275	20	40	<1.5	
	EPS1-C/4-320-40		320	20	40	<1.7	
	EPS1-C/4-385-40		385	20	40	<1.8	

EPS1 Series Surge Protective Device

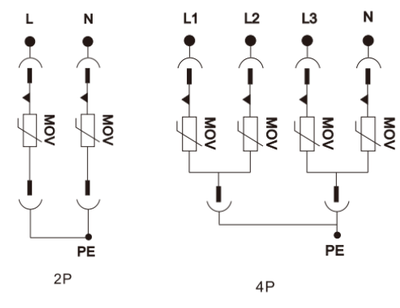
Mechnical characteristics

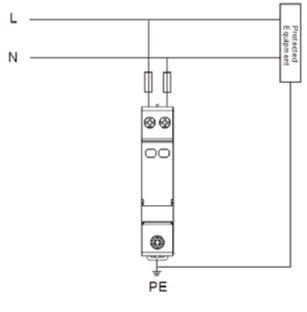
Mechnical characteristics \ Type	2P	4P
Connection	By screw terminals : 6-25 mm²	
Terminal Screw Torque	2.0 Nm	
Recommended Cable cross Section	≥6mm²	≥10mm²
Degree of Protection	IP20	
Housing	PA	
Flame retardant grade	UL94 V0	4.8VA
Operating temperature	-40℃~70℃	

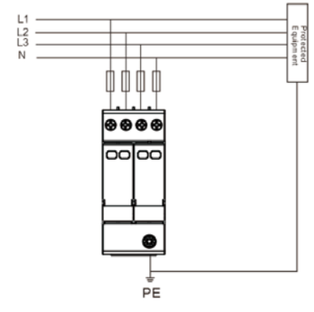
Overall and mounting dimensions



Working Principle Diagram







SGS1 Series Surge Protective Device

Standard	EC61643-1
Protection	Protect electric system and on-loading electrical apparatus from thunder and instanteous over-voltage
Ambient temperature(℃)	-40~+70
Number of poles	1P,2P,3P,4P
Maximum continuous Operating voltage Uc(V~)	275/320/385/440
Nominal discharge current In(8/20μs)(kA)	10/20/30/40/60
Maximum discharge current Imax(8/20μs)(kA)	20/40/60/80/100
Protection level Up(kV)	<1.3/1.4/1.5/1.6/1.7/1.8/2.2/2.5/3.0
Response time t(ns)	<25
On-Off indicating window	Green: normalfunction Red: functionless,immediate replacement required
Type of terminal	Pin type
Installation	Mounting on 35mm DIN rail
Ground system	TT/TN

SGS1/1

SGS1/2

SGS1/3

SGS1/4

SGS1 Series Surge Protective Device

	Type		Poles	Uc(V~)	Discharge current		Up (kV)	Applicable grounding system
					Nominal (kA)	Max. (kA)		
 SGS1-D/1	C Type	SGS1-C/1-275-20	1	275	10	20	<1.2	TT/TN
		SGS1-C/1-320-20		320			<1.5	
		SGS1-C/1-385-20		385			<1.6	
		SGS1-C/1-440-20		440			<1.8	
	D Type	SGS1-D/1-275-20		275	20	40	<1.6	
		SGS1-D/1-320-20		320			<1.7	
		SGS1-D/1-385-20		385			<1.8	
		SGS1-D/1-440-20		440			<2.2	
 SGS1-D/2	C Type	SGS1-C/2-275-20	2	275	10	20	<1.2	TT/TN
		SGS1-C/2-320-20		320			<1.5	
		SGS1-C/2-385-20		385			<1.6	
		SGS1-C/2-440-20		440			<1.8	
	D Type	SGS1-D/2-275-20		275	20	40	<1.6	
		SGS1-D/2-320-20		320			<1.7	
		SGS1-D/2-385-20		385			<1.8	
		SGS1-D/2-440-20		440			<2.2	
 SGS1-D/3	C Type	SGS1-C/3-275-20	3	275	10	20	<1.2	TT/TN
		SGS1-C/3-320-20		320			<1.5	
		SGS1-C/3-385-20		385			<1.6	
		SGS1-C/3-440-20		440			<1.8	
	D Type	SGS1-D/3-275-20		275	20	40	<1.6	
		SGS1-D/3-320-20		320			<1.7	
		SGS1-D/3-385-20		385			<1.8	
		SGS1-D/3-440-20		440			<2.2	
 SGS1-D/4	C Type	SGS1-C/4-275-20	4	275	10	20	<1.2	TT/TN
		SGS1-C/4-320-20		320			<1.5	
		SGS1-C/4-385-20		385			<1.6	
		SGS1-C/4-440-20		440			<1.8	
	D Type	SGS1-D/4-275-20		275	20	40	<1.6	
		SGS1-D/4-320-20		320			<1.7	
		SGS1-D/4-385-20		385			<1.8	
		SGS1-D/4-440-20		440			<2.2	

SGS1-B Surge Protective Device

	Type	Poles	Uc(V~	Discharge current		Up (kV)	Applicable grounding system
				Nominal (kA)	Max. (kA)		
 SGS1-B/1	SGS1-B/1-385-60	1	385	30	60	<2.2	TT/TN
	SGS1-B/1-440-60		440	30	60	<2.5	
	SGS1-B/2-385-60	2	385	30	60	<2.2	TT/TN
	SGS1-B/2-440-60		440	30	60	<2.5	
	SGS1-B/3-385-60	3	385	30	60	<2.2	TT/TN
	SGS1-B/3-440-60		440	30	60	<2.5	
	SGS1-B/4-385-60	4	385	30	60	<2.2	TT/TN
	SGS1-B/4-440-60		440	30	60	<2.5	
 SGS1-B/2	SGS1-B/1-385-80	1	385	40	80	<2.5	TT/TN
	SGS1-B/1-385-100		385	60	100	<2.5	
	SGS1-B/1-440-80		440	40	80	<3.0	
	SGS1-B/1-440-100		440	60	100	<3.0	
 SGS1-B/3	SGS1-B/2-385-80	2	385	40	80	<2.5	TT/TN
	SGS1-B/2-385-100		385	60	100	<2.5	
	SGS1-B/2-440-80		440	40	80	<3.0	
	SGS1-B/2-440-100		440	60	100	<3.0	
	SGS1-B/3-385-80	3	385	40	80	<2.5	TT/TN
	SGS1-B/3-385-100		385	60	100	<2.5	
	SGS1-B/3-440-80		440	40	80	<3.0	
	SGS1-B/3-440-100		440	60	100	<3.0	
 SGS1-B/4	SGS1-B/4-385-80	4	385	40	80	<2.5	TT/TN
	SGS1-B/4-385-100		385	60	100	<2.5	
	SGS1-B/4-440-80		440	40	80	<3.0	
	SGS1-B/4-440-100		440	60	100	<3.0	

SGS1 Series Surge Protective Device

Application

Technical data \ Type	SGS1-D				SGS1-C				SGS1-B		
	275-20	320-20	385-20	440-20	275-40	320-40	385-40	440-40	385-60	385-80	385-100
Max.continuous operating vol. Uc(V~)	275	320	385	440	275	320	385	440	385	385	385
Level of vol.protection(Up<)	1.2kV	1.5kV	1.6kV	1.8kv	1.6kV	1.7KV	1.8KV	2.2kv	2.2KV	2.5KV	2.5KV
Nominal discharge curent In(8/20μs)kA	10				20				30	40	60
Max. discharge current Imax(8/20μs)kA	20				40				60	80	100
Response time t(ns)	<25										
Pole width(mm)	I8										
Colour	Orange				Grey				Red		
Protection degree	IP20										
Material of cover	PBT										
Circuit current	10~16A				25~32A				25~32A		
Wiring L,N	2.5~35mm²										
Wiring PE	4.0~35mm²										

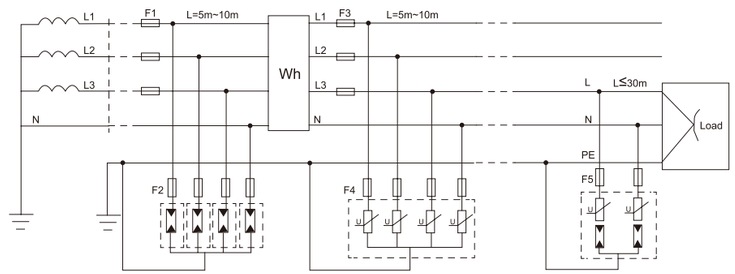
How to select surge protectors

a. The voltage should be ≤ Uc;

b.Up<maximum impulse withstands:

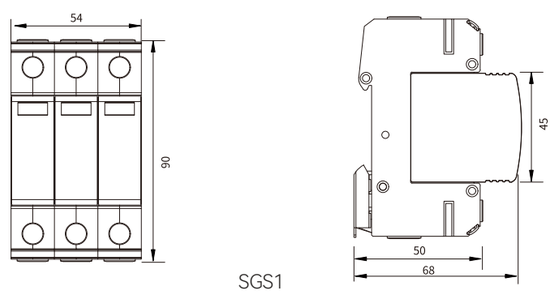
c. Different protectors should be selected according to various grounding system and protection mode.

Allocation of surge protectors under TT system



- SGS1-B series surge protector
  Protection category: B
  Over-voltage mounting category:III
  Rated impulse withstand voltage:4KV
  Parameters of discharge:Uimp and In
  Master power distribution cabinet
- SGS1-C series surge protector
  Protection category:C
  Over-voltage mounting category:II
  Rated impulse withstand voltage:2.5KV
  Parameters of discharge:Imax and In
  Branch power distribution cabinet
- SGS1-D series surge protector
  Protection category:D
  Over-voltage mounting category:I
  Rated impulse withstand voltage:1.5KV
  Parameters of discharge:Uoc and Isc
  Terminal of power distribution

Overall and mounting dimensions



SGS1

SGS1-DC Series Surge Protective Device

Standard	EN50539-11
Protection	Protect electric system and on-loading electrical appliances from thunder and instanteous over-voltage
Ambient temperature(℃)	-40 to +70
Number of poles	2P,3P
PV system operating voltage ucpv(V)	500/1000/1500
Standard discharge current(8/20μs) In(kA)	20
Maximum discharge current(8/20μs) Imax(kA)	40
Protection level Up(V)	≤2.5 Uc:DC 500 ≤3.5 Uc:DC 1000 ≤5.5 Uc:DC 1500
Response time (ns)	<25
On-Off indicating window	Green: normal function Red: functionless, immediate replacement required
Type of terminal	Pin type
Installation	Mounting on 35mm DIN rail
Certification	TÜV CE CB

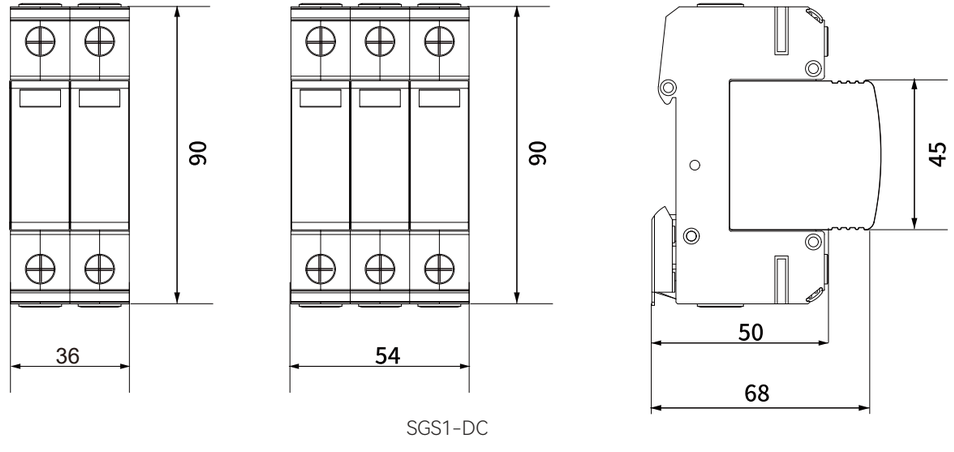
SGS1-DC/2

SGS1-DC/3

SGS1-DC Series Surge Protective Device

	Type	Poles	Uc(V~)	Discharge current		Up(kV)	Photovoltaic voltage
				Nominal(kA)	Imax.(kA)		
 SGS1-DC/2	SGS1-DC/2-500/40	2	500	20	40	≤2.5	500V
	SGS1-DC/2-1000/40	2	1000	20	40	≤3.5	1000V
 SGS1-DC/3	SGS1-DC/3-500/40	3	500	20	40	≤2.5	500V
	SGS1-DC/3-1000/40	3	1000	20	40	≤3.5	1000V
	SGS1-DC/3-1500/40	3	1500	20	40	≤5.5	1500V

Overall and mounting dimensions



SGS1-DC

Fuse Holder SERIES

EPF-32 Series Fuse Holder
EPF-63 Series Fuse Holder
EPF-125 Series Fuse Holder

MAXGE

EPF-32 Series	Fuse Holder and Links
Standard	IEC 60947-3
Description	Fuse switch disconnector with LED indicator
Number of Poles	1P,2P,3P,4P
Fuse size	10X38
Rated operational current Ie(A)	2-32
Rated operational voltage Ue	AC 250V(1P)/AC 500V(2P-4P)
Rated insulation voltage(V)	AC 500
Rated impulse withstand voltage(kV)	4
Conditional short-circuit current(kA)	20
Utilization category with fuse	g G
Protection degree	IP20
Mounting method	Din rail installation
Certification	TÜV CE CB

EPF-32-1P EPF-32-2P EPF-32-3P EPF-32-4P

EPF-32 Series Fuse Holder and Links

	Code NO.	Fuse link size	Link current	Packing unit (holder)	Packing unit(link)
 EPF-32-1P	EPF-32-1 EPF-32X-1	10X38mm	2A 4A 6A 10A 16A 20A 25A 32A	12	200
 EPF-32-2P	EPF-32-2 EPF-32X-2	10X38mm	2A 4A 6A 10A 16A 20A 25A 32A	6	200
 EPF-32-3P	EPF-32-3 EPF-32X-3	10X38mm	2A 4A 6A 10A 16A 20A 25A 32A	4	200
 EPF-32-4P	EPF-32-4 EPF-32X-4	10X38mm	2A 4A 6A 10A 16A 20A 25A 32A	3	200

EPF-63 Series Fuse Holder and Links

Standard	IEC 60947-3
Description	Fuse switch disconnector without null line
Number of Poles	1P,1P+N,2P,3P,3P+N
Fuse size	14X51
Rated operational current Ie	2-63A(AC 500V)/2-32A(AC 690V)
Rated operational voltage Ue(V)	AC 500/AC 690
Rated insulation voltage(V)	AC 800
Rated impulse withstand voltage(kV)	6
Conditional short-circuit current	100kA(AC 500V)/50kA(AC 690V)
Utilization category with fuse	g G
Protection degree	IP20
Mounting method	Din rail installation
Certification	CE

EPF-63-1P EPF-63-2P EPF-63-3P EPF-63-3P+N

EPF-63 Series Fuse Holder and Links

	Code NO.	Fuse link size	Link current	Packing unit (holder)	Packing unit(link)
 EPF-63-1P	EPF-63-1 EPF-63X-1	14X51mm	2A 4A 6A 8A 10A 12A 16A 20A 25A 32A 40A 50A 63A	12	100
 EPF-63-1P+N	EPF-63-1P+N EPF-63X-1P+N	14X51mm	2A 4A 6A 8A 10A 12A 16A 20A 25A 32A 40A 50A 63A	6	100
 EPF-63-2P	EPF-63-2 EPF-63X-2	14X51mm	2A 4A 6A 8A 10A 12A 16A 20A 25A 32A 40A 50A 63A	6	100
 EPF-63-3P	EPF-63-3 EPF-63X-3	14X51mm	2A 4A 6A 8A 10A 12A 16A 20A 25A 32A 40A 50A 63A	4	100
 EPF-63-3P+N	EPF-63-3P+N EPF-63X-3P+N	14X51mm	2A 4A 6A 8A 10A 12A 16A 20A 25A 32A 40A 50A 63A	3	100

EPF-125Series Fuse Holder and Links

Standard	IEC 60947-3
Description	Fuse switch disconnector without null line
Number of Poles	1P,1P+N,2P,3P,3P+N
Fuse size	22X58
Rated operational current Ie	10-125A(AC 500V)/10-50A(AC 690V)
Rated operational voltage Ue(V)	AC 500/AC 690
Rated insulation voltage(V)	AC 800
Rated impulse withstand voltage(kV)	6
Conditional short-circuit current	100kA(AC 500V)/50kA(AC 690V)
Utilization category with fuse	g G
Protection degree	IP20
Mounting method	Din rail installation
Certification	CE

EPF-125-1P EPF-125-2P EPF-125-3P EPF-125-3P+N

EPF-125 Series　　Fuse Holder and Links

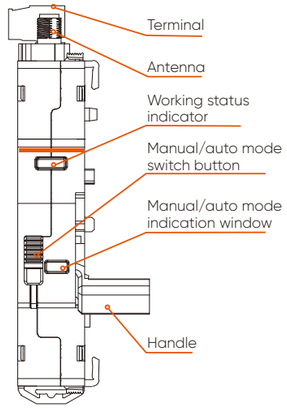
	Code NO.	Fuse link size	Link current	Packing unit (holder)	Packing unit(link)
 EPF-125 -1P	EPF-125-1 EPF-125X-1	22X58mm	10A 16A 20A 25A 32A 40A 50A 63A 80A 100A 125A	12	50
 EPF-125-1P+N	EPF-125-1P+N EPF-125X-1P+N	22X58mm	10A 16A 20A 25A 32A 40A 50A 63A 80A 100A 125A	6	50
 EPF-125-2P	EPF-125-2 EPF-125X-2	22X58mm	10A 16A 20A 25A 32A 40A 50A 63A 80A 100A 125A	6	50
 EPF-125-3P	EPF-125-3 EPF-125X-3	22X58mm	10A 16A 20A 25A 32A 40A 50A 63A 80A 100A 125A	4	50
 EPF-125-3P+N	EPF-125-3P+N EPF-125X-3P+N	22X58mm	10A 16A 20A 25A 32A 40A 50A 63A 80A 100A 125A	3	50

THE INTELLIGENT SM53RAi-W Series

1.1 Product Overview

Remote control device SM53RAi-W can match 1P-4P AC/DC circuit breaker, realize remotecontrol through external dry contact, and feedback the reclosing status through the signal outputport.

The red LED light indicates that the device is ON and in normal use. The green LED lightindicates that the device is in the OFF status. And the red LED flashes to indicate that the device isfaulty or manually open to enter the maintenance mode.The automatic control mode, manual mode and lock mode are optional through the toggleswitch on the control module panel.



Working Status Indicator	
Green Light On	Close
Green Light Flash Slowly	WLAN transmits data normally (in WiFi distribution mode)
Red Light on	Open
Red Light Flash Slowly	Abnormal WLAN connection (in WiFi distribution mode)

1.2 Specifications & Model

SM	53	RAi	-W		-	MCB	2P	C63
	Design Number	Device Type	Function Code	Power Supply Voltage		Adaptive Device	Poles	Current Specification
		Recloser	wifi	AC ver.: AC~230 V		Matis: MCB(MM50H)RCCB (ML50H)RCBO(MR50) Chint: NBl. Nader: NDB2 Schneider: IC65N		

Matis Circuit Breaker	Type	MCB	RCCB(AC)	RCBO(AC)
	Pole	1P,2P,3P,4P	2P,4P	1P,1P+N,2P,3P,3P+N,4P
	Trip Characteristics	B,C,D	B,C,D	B,C,D
	Rated Current	10,16,20,25, 32,40,50,63, 80,100,125	10,16,20,25, 32,40,50,63	10,16,20,25, 32,40,50,63

ISO-9001

ISO-14001

ISO-45001

VDE

VDE

VDE

KEMA

KEMA

KEMA

TUV

TUV

TUV

SEMKO

SEMKO

SEMKO

ROHS

INMETRO

INMETRO