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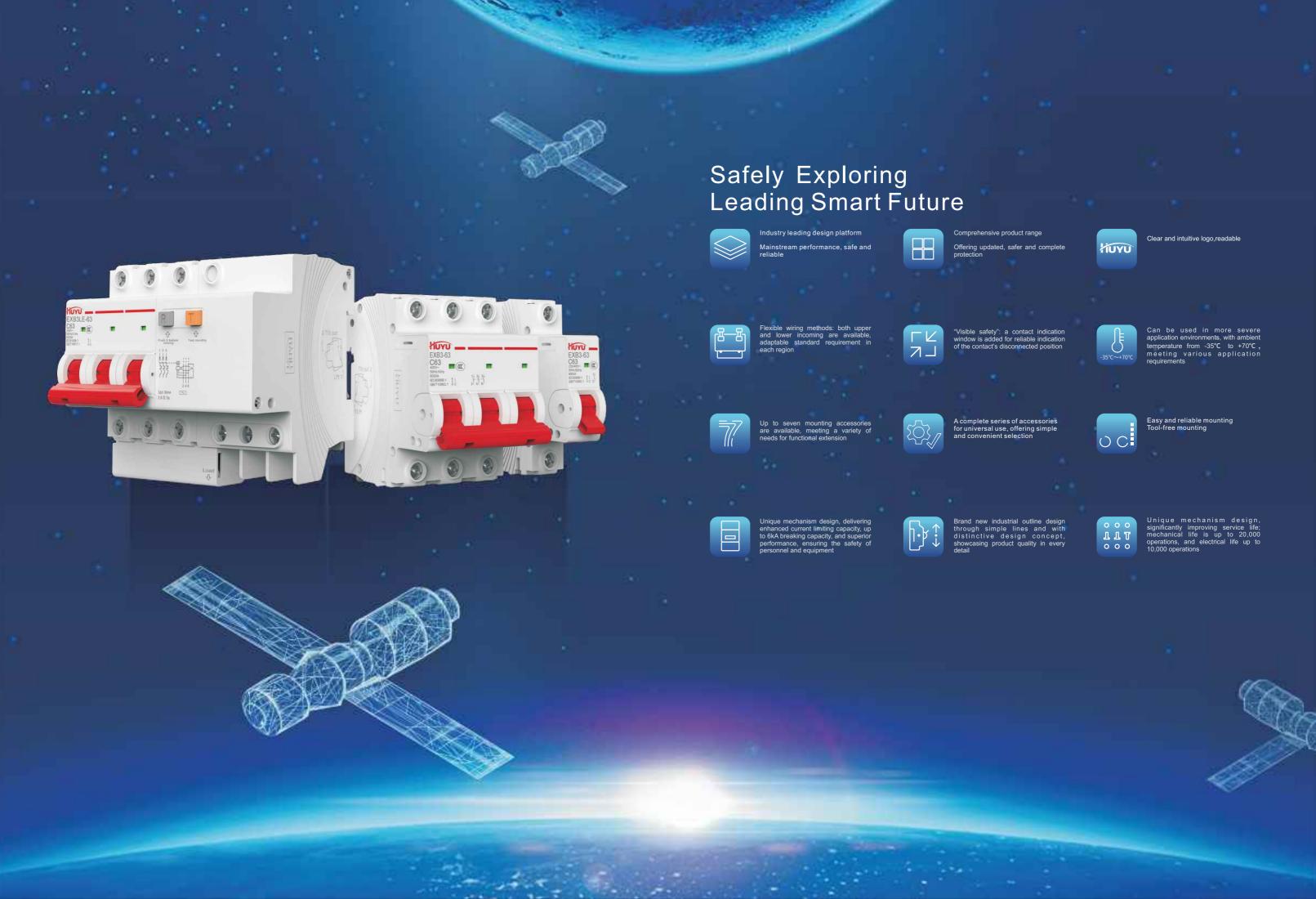
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Corporate WeChat QR code







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Residual Current Circuit Breaker with Overcurrent Protection

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Product Description

Product data



Product Description Product data

Product model		EXB3-40	EXB3-63	EXB3-63H	
		ENSIAN G.	8333	S S S S S S S S S S S S S S S S S S S	
Standa	ards	GB/T 10963.1、IEC 60898-1	GB/T 10963.1、IEC 60898-1	GB/T 10963.1、IEC 60898-1	
Number o	f poles	1P+N	1P、1P+N、2P、3P、3P+N、4P	1P、1P+N、2P、3P、3P+N、4P	
Rated cur		6~40	1~63	1~63	
riatou our	one (7 t)	0 10	AC230 (1P、1P+N)	AC230 (1P、1P+N)	
Rated volt	age (V)	AC230	AC400 (2P、3P、3P+N、4P)	AC230/400 (2P) AC400 (3P, 3P+N, 4P)	
Rated frequ	ency(Hz)	50/60	50/60	50/60	
Residual cu	rrent type	-	-	-	
Rated residual operati	ng current I∆n(mA)	-	-	-	
Rated short-circuit brea	king capacity Icu(A)	4500	6000	10000	
Operating short-circuit br	eaking capacity Ics(A)	4500	6000	7500	
Rated short-time withs	and current lcw(kA)	-	-	-	
Rated short-circuit mak	ing capacity Icm(kA)	-	-	-	
Rated impulse withst (1.2/50)		4	4	4	
Dielectric testin	g voltage(V)	(power frequency 1min) 2000	(power frequency 1min) 2000	(power frequency 1min) 2000	
Mechanical I	ife (times)	20000	20000	20000	
Electrical lif	e (times)	10000	10000	10000	
	B (3ln~5ln)		•		
Thermal magnetic	C (5ln 10ln)	=	•		
tripping	D (10ln 20ln)	•	•	•	
characteristics	C (6.4ln 9.6ln)				
	Regular (8ln 12ln)				
	D (9.6ln 14.4ln)				
		28 periodic cycles ,	28 periodic cycles ,	28 periodic cycles ,	
Anti-humidity (GB/T2423.4)	RH: 90-96% at 55°C	RH: 90-96% at 55℃	RH: 90-96% at 55°C	
		RH: 95-100% at 25°C	RH: 95-100% at 25°C	RH: 95-100% at 25°C	
Benchmark ambient	temperature (°C)	30	30	30	
Operating ambient to	emperature (°C)	-35 ~ +70	-35 ~ +70	-35 ~ +70	
Storage ambient te	mperature (°C)	-35 ~ +85	-35 ~ +85	-35 ~ +85	
Applicable altitude height (m)		≤2000m	≤2000m	≤2000m	
Max. wiring capacity (mm²)		10	25	25	
Max. ultimate torque (N • m)		1.5	2	2	
Incoming method		Top or bottom enter	Top or bottom enter	Top or bottom enter	
Mounting method		TH35-7.5 standard rail mounting	TH35-7.5 standard rail mounting	TH35-7.5 standard rail mounting	
Pollution		2	2	2	
Protection degree	Direct mounting Mounted in the	IP20	IP20	IP20	
	Mounted in the distribution box	IP40	IP40	IP40	
		OF auxiliary contact	OF auxiliary contact	OF auxiliary contact	
		SD alarm contact MX+OF shunt release	SD alarm contact MX+OF shunt release	SD alarm contact MX+OF shunt release	
Accessories that ca	an be assembled	MN under-voltage release	MN under-voltage release	MN under-voltage release	

MV over-voltage release

MVMN over/under-voltage release

MNs no-voltage release

MV over-voltage release

MVMN over/under-voltage release

MNs no-voltage release

EXB3-125	EXB3LY-63	EXB3LE-63
EXECUTION DE LA CONTRACTION DE		
GB/T 14048.2、IEC 60947-2	GB/T 16917.1、IEC61009-1	GB/T 16917.1、IEC61009-1
1P、1P+N、2P、3P、3P+N、4P	1P+N	1P+N、2P、3P、3P+N、4P
63 ~ 125	6~63	6~63
AC230 (1P、1P+N)	AC230V	AC220/230/240 (1P+N、2P)
AC400 (2P、3P、3P+N、4P)		AC380/400/415 (3P、3P+N、4P)
50/60	50/60	50/60
-	Type AC	Type AC
-	30、50	30、50、75、100、300
6000、10000 (Type H)	6000	6000
6000、7500 (Type H)	6000	6000
	-	-
-	-	-
4	4	4
1890	(power frequency 1min) 2000	(power frequency 1min) 2000
20000	20000	20000
6000 (In≤100A) , 4000 (In>100A)	10000	10000
	•	•
	•	•
	•	
•		
•		
28 periodic cycles ,	28 periodic cycles ,	28 periodic cycles ,
RH: 90-96% at 55°C	RH: 90-96% at 55°C	RH: 90-96% at 55°C
RH: 95-100% at 25°C	RH: 95-100% at 25°C	RH: 95-100% at 25°C
30	30	30
-35 ~ +70	-35 ~ +70	-35~+70
-35~+85	-35 ~ +85	-35 ~ +85
≤2000m	≤2000m	≤2000m
50	25	25
3.5	2	2
Top or bottom enter	Top-in,Bottom-out	Top-in,Bottom-out
TH35-7.5 standard rail mounting	TH35-7.5 standard rail mounting	TH35-7.5 standard rail mounting
3	2	2
IP20	IP20	IP20
IP40	IP40	IP40

OF auxiliary contact

SD alarm contact

MX+OF shunt release

MN under-voltage release

MV over-voltage release

MVMN over/under-voltage release

MNs no-voltage release

OF auxiliary contact

SD alarm contact

MX+OF shunt release

MN under-voltage release

MV over-voltage release

MVMN over/under-voltage release

MNs no-voltage release

MV over-voltage release

MVMN over/under-voltage release

MNs no-voltage release

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MX+OF shunt release

MN under-voltage release

MV over-voltage release

MVMN over/under-voltage release

MNs no-voltage release



MX+OF shunt release

MN under-voltage release

MV over-voltage release

MVMN over/under-voltage release

MNs no-voltage release

MX+OF shunt release

MN under-voltage release

MV over-voltage release

MVMN over/under-voltage release MNs no-voltage release

Product Description

Product data



Product Description Product description and selection

EXB3LE-63H EXB3LE-125 EXB3L1-100 EXH3-125 2 GB/T 16917.1、IEC61009-1 GB/T 14048.2、IEC 60947-2 GB/T 16916.1、IEC 61008-1 GB/T 14048.3、IEC 60947-3 1P+N、2P、3P、3P+N、4P 1P+N、2P、3P、3P+N、4P 2P、4P 1P、2P、3P、4P 6~63 63 ~ 125 16~100 20-125 AC230 (1P+N, 2P) AC220/230/240 (1P+N, 2P) AC240 (2P) AC220V/230V/240V (1P) , AC230V(2P), AC380V/400V/415V (2P, 3P, 4P) AC380/400/415 (3P、3P+N、4P) AC400 (3P, 3P+N, 4P) AC415(4P) 50/60 50/60 50/60HZ 50/60 Type AC Type AC Type AC A 30, 50, 75, 100, 300 30, 50, 75, 100, 150, 200, 300 10(16-40A)、30、50、100、300 10000 10000 10000 7500 7500 10000 1.5 2.5 (power frequency 1m) 2000 1890 (power frequency 1m) 2000 1890 20000 20000 8500 20000 10000 6000 (In≤100A) , 4000 (In > 100A) 10000 3000 28 periodic cycles , 28 periodic cycles 28 periodic cycles, RH: 90-96% at 55°C RH: 90-96% at 55°C RH: 90-96% at 55°C RH: 95-100% at 25°C RH: 95-100% at 25°C RH: 95-100% at 25°C 30 30 30 30 -35 ~ +70 -35 ~ +70 -35 ~ +70 -35 ~ +85 -35 ~ +85 -35 ~ +85 ≤2000m ≤2000m ≤2000m 50 50 2 3.5 3.5 3.5 Top-in,Bottom-out Top-in,Bottom-out Top-in,Bottom-out Top or bottom enter TH35-7.5 standard rail mounting TH35-7.5 standard rail mounting TH35-7.5 standard rail mounting TH35-7.5 standard rail mounting 2 IP20 IP20 IP20 IP20 IP40 IP40 IP40 OF auxiliary contact OF auxiliary contact SD alarm contact SD alarm contact

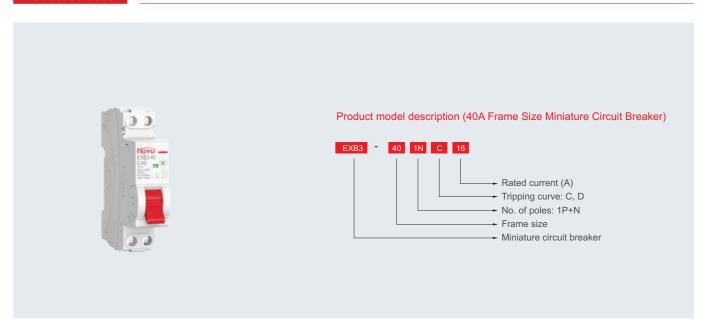
Product description

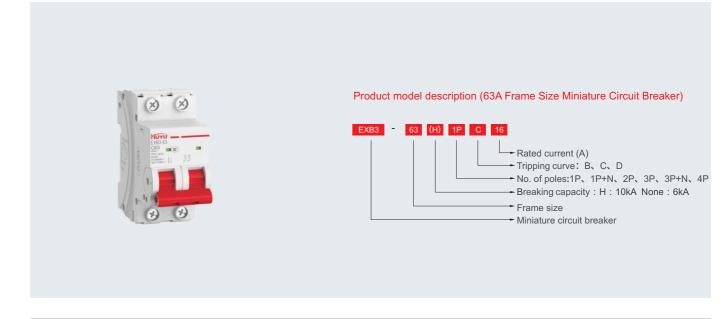
The miniature circuit breakers can be used in circuit with AC 50Hz/60Hz, rated voltage up to 400V, and rated current up to 125A, to offer overload and short-circuit protection for construction power distribution, similar power line facilities and electrical equipment.

The residual current circuit breakers can be used in circuit with AC 50Hz/60Hz, rated voltage up to 400V, and rated current up to 125A, to offer residual current, overload and short circuit protections. They can also be used for direct or indirect personal protection against electric shock or for protection against fire hazards due to ground fault currents.

The disconnecting switches can be used in circuit with AC 50Hz/60Hz, rated voltage up to 400V, and rated current up to 125A, to offer isolating and functional breaking for terminal power distribution.

Product selection



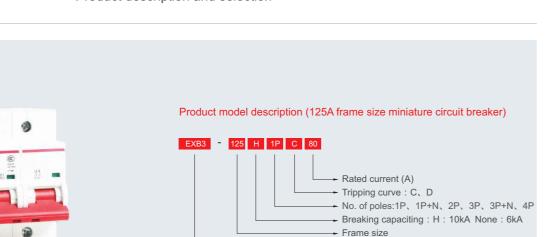


03 / Miniature circuit breaker

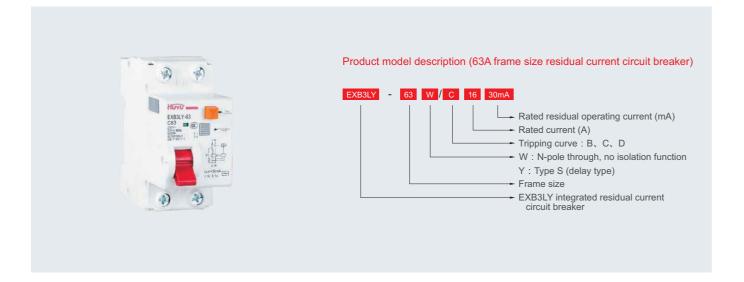


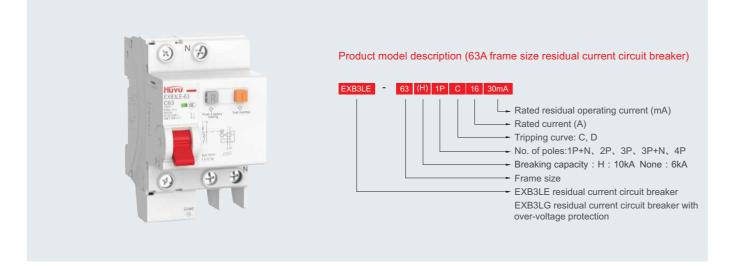
Product Description

Product description and selection



→ Miniature circuit breaker

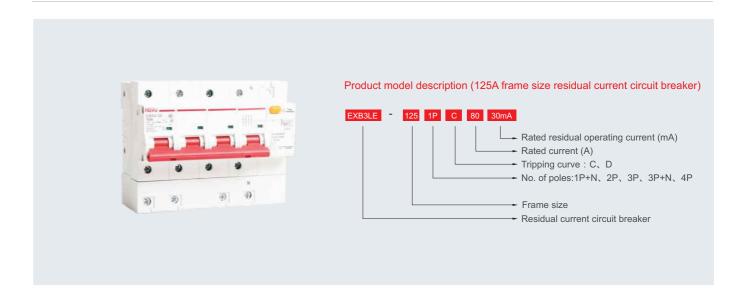


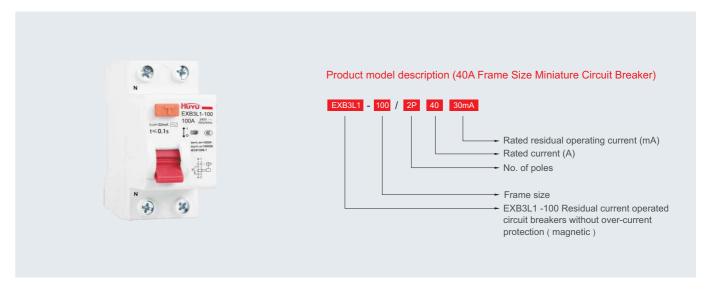


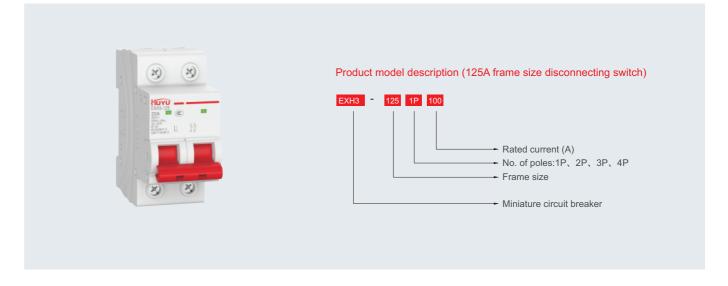
EXPLORER Industrial Control And Protection

Product Description

Product description and selection









EXB3 Miniature Circuit Breakers

Functions and Features

In accordance with GB/T 10963.1 and IEC60898-1

EXPLORER Industrial Control And Protection

EXB3 Miniature Circuit Breakers

The EXB3-63 miniature circuit breakers functions:

Functions and Features

In accordance with GB/T 10963.1 and IEC 60898-1

The EXB3-40 miniature circuit breakers functions:

- Overload protection - Short-circuit protection - Isolation function

Technical data

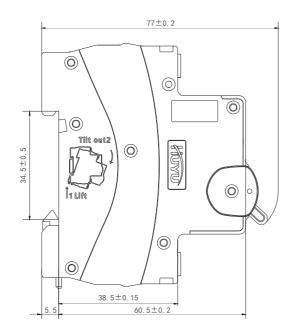
Product model	EXB3-40
No. of poles	1P+N
Rated current	6A、10A、
Nated Current	16A、20A、25A、32A、40A
Rated voltage	AC230V
Rated operating frequency	50Hz/60Hz
Rated impulse withstand voltage	4kV
Rated short-circuit breaking capacity	4500A
Operating short-circuit breaking capacity	4500A
Instantaneous tripping type	C, D
Mechanical life(times)	20000
Electrical life(times)	10000

- Overload protection - Short-circuit protection - Isolation function

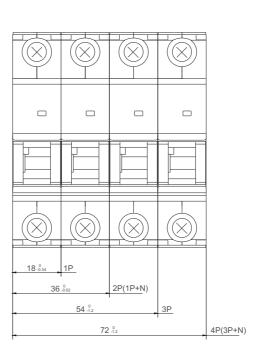
Technical data

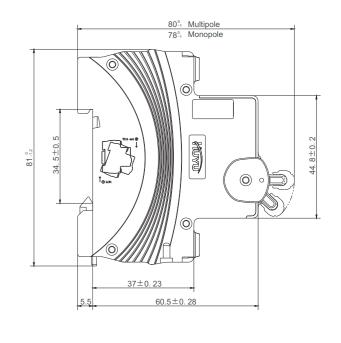
Product model	EXB3-63
No. of poles	1P、1P+N、2P、3P、3P+N、4P
Rated current	1A、2A、3A、4A、6A、10A、
Rated Current	16A、20A、25A、32A、40A、50A、63A
Rated voltage	AC230V(1P、1P+N), AC400V(2P、3P、3P+N、4P)
Rated operating frequency	50Hz/60Hz
Rated impulse withstand voltage	4kV
Rated short-circuit breaking capacity	6000A
Operating short-circuit breaking capacity	6000A
Instantaneous tripping type	B、C、D
Mechanical life(times)	20000
Electrical life(times)	10000

Outlines and dimensions



Outlines and dimensions





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EXB3 Miniature Circuit Breakers

Functions and Features

In accordance with GB/T 10963.1 and IEC60898-1

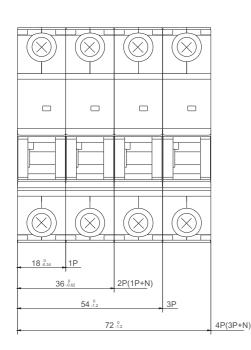
The EXB3-63H miniature circuit breakers functions: - Overload protection - Short-circuit protection - Isolation function

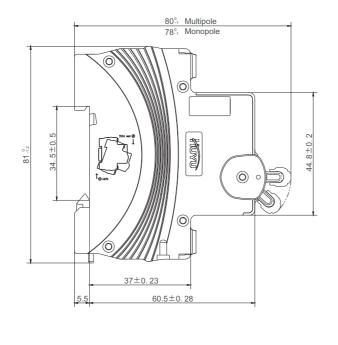
Technical data

Product model	EXB3-63H
No. of poles	1P、1P+N、2P、3P、3P+N、4P
Rated current	1A、2A、3A、4A、6A、10A、 16A、20A、25A、32A、40A、50A、63A
Rated voltage	AC230V(1P、1P+N), AC230V/400V(2P), AC400V(3P、3P+N、4P)
Rated operating frequency	50Hz/60Hz
Rated impulse withstand voltage	4kV
Rated short-circuit breaking capacity	10000A
Operating short-circuit breaking capacity	7500A
Instantaneous tripping type	B、C、D
Mechanical life(times)	20000
Electrical life(times)	10000

Floductillodel	EAB3-0311
No. of poles	1P、1P+N、2P、3P、3P+N、4P
Rated current	1A、2A、3A、4A、6A、10A、 16A、20A、25A、32A、40A、50A、63A
Rated voltage	AC230V(1P、1P+N), AC230V/400V(2P), AC400V(3P、3P+N、4P)
Rated operating frequency	50Hz/60Hz
Rated impulse withstand voltage	4kV
Rated short-circuit breaking capacity	10000A
Operating short-circuit breaking capacity	7500A
Instantaneous tripping type	B、C、D
Mechanical life(times)	20000
Electrical life(times)	10000

Outlines and dimensions





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EXB3 Miniature Circuit Breakers

Functions and Features

In accordance with GB/T 14048.2 and IEC 60947-2

The EXB3-125 miniature circuit breakers functions:

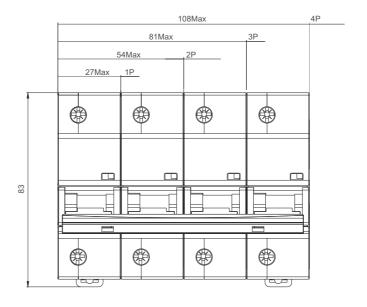
- Overload protection - Short-circuit protection - Isolation function

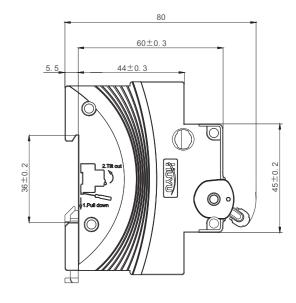
Technical data



Product model	EXB3-125
No. of poles	1P、1P+N、2P、3P、3P+N、4P
Rated current	63A、80A、100A、125A
Rated voltage	AC230V (1P、1P+N) , C400V (2P、3P、3P+N、4P)
Rated operating frequency	50Hz/60Hz
Rated impulse withstand voltage	4kV
Rated short-circuit breaking capacity	6000A、10000A(H type)
Operating short-circuit breaking capacity	6000A、7500A(H type)
Instantaneous tripping type	C, D
Mechanical life(times)	20000
Electrical life(times)	6000 (In≤100A) , 4000 (In>100A)

Outlines and dimensions





09 / Miniature circuit breaker 10 / Miniature circuit breaker



EXB3LY Residual Current Circuit Breaker with Overcurrent Protection Functions and Features

In accordance with GB/T 16917.1 and IEC 61009-1

The EXB3LY-63 residual current circuit breakers offer below functions:

- Overload protection - Short-circuit protection - Isolation function - Earth leakage current production

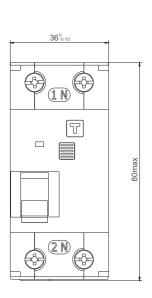
Technical data

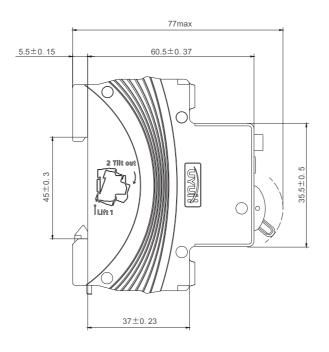
Product model	EXB3LY-63
No. of poles	See Table 1
Rated current	6A、10A、16A、20A、25A、32A、40A、50A、63A
Rated voltage	AC230V
Rated operating frequency	50Hz/60Hz
Rated impulse withstand voltage	4kV
Breaking capacity	See Table 1
Rated residual operated current	30mA、50mA(only 50mA for delay type)
Instantaneous tripping type	See Table 1
Mechanical life(times)	20000
Electrical life(times)	10000
Residual current type	See Table 1

Table 1

Product model	No. of Poles	Breaking capacity Icn	Breaking capacity Ics	Instantaneous tripping type	Residual current type	Remark
EXB3LY-63	1P+N、N-pole with break point	6000A	6000A			With isolation function
EXB3LY-63W	1P+N、N-pole through	6000A	6000A	B, C, D	Type AC	Without isolation function
EXB3LY-63Y	1P+N、N-pole with break point	6000A	6000A			With isolation function

Outlines and dimensions





EXPLORER Industrial Control And Protection

EXB3LE Residual Current Circuit Breaker with Overcurrent Protection

Functions and Features

In accordance with GB/T 16917.1 and IEC 61009-1

The EXB3LE-63 (H) residual current circuit breakers functions:

- Overload protection - Short-circuit protection - Isolation function - Earth leakage current production

Technical data

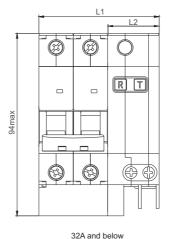


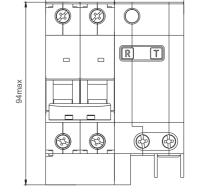
Product model	EXB3LY-63(H)	
No. of poles	See Table 1	
Rated current	6A、10A、16A、20A、25A、32A、40A、50A、63A	
Rated voltage	AC220V/230V/240V (1P+N、2P) , AC380V/400V/415V (3P、3P+N、4P)	
Rated operating frequency	50Hz/60Hz	
Rated impulse withstand voltage	4kV	
Breaking capacity	See Table 1	
Rated residual operated current	30mA、50mA、75mA、100mA、300mA(only 30mA for EXB3LG)	
Instantaneous tripping type	See Table 1	
Over-voltage protection range	See Table 1	
Mechanical life(times)	20000	
Electrical life(times)	10000	
Residual current type	See Table 1	

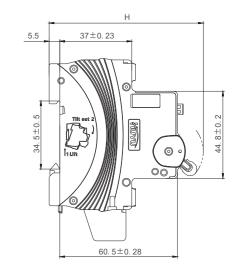
Table 1

Product model	No. of poles	Breaking capacity Icn	Breaking capacity Ics	Over-voltage protection range	Instantaneous tripping type	Residual current type
EXB3LE-63	1P+N、2P、3P、3P+N、4P	6000A	6000A	-	B, C, D	Turno A.C.
EXB3LE-63H	1P+N、2P、3P、3P+N、4P	10000A	7500A	-	В, С, В	Type AC
EXB3LG-63	1P+N、2P	6000A	6000A	(280±5%)V	С	Type AC

Outlines and dimensions







and	below	

40A and	above
70A and	above

Rated current	Width	1P+N	2P	3P	3P+N	4P
<22	L1(mm)	45 .1.0	63 .1.2	90 -1.4	99 -1.4	117 0-1.6
≤32	L2(mm)	27 .0.8	27 -0.6	36 0.8	45 0.8	45 0.8
40、50、63	L3(mm)	54 -1.0	72 0 -1.2	103.5 -1.4	117 0.1.4	135 -1.8
40, 50, 63	L4(mm)	36 .0.6	36 0.6	49.5 -0.6	63 0.6	63 ⁰ -0.6
	H(mm)	78 -1.0	80 -1.0	80 -1.0	80 -1.0	80 -1.0

11 / Miniature circuit breaker 12 / Miniature circuit breaker



EXB3LE Residual Current Circuit Breaker with Overcurrent Protection

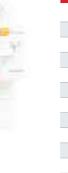
Functions and Features

In accordance with GB/T 16917.1 and IEC 61009-1

The EXB3LE-125 residual current circuit breakers functions:

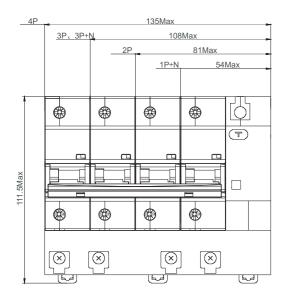
- Overload protection Short-circuit protection Isolation function
- Earth leakage current production

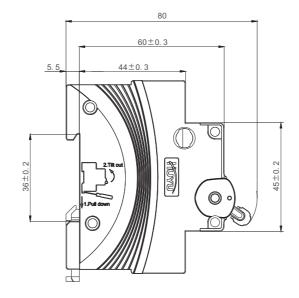
Technical data



Product model	EXB3LE-125					
No. of poles	1P+N, 2P, 3P, 3P+N, 4P					
Rated current	63A、80A、100A、125A					
Rated voltage	AC230V (1P+N、2P) , AC400V (3P、3P+N、4P)					
Rated operating frequency	50Hz/60Hz					
Rated impulse withstand voltage	4kV					
Rated short-circuit breaking capacity	10000A					
Operational short-circuit breaking capacity	7500A					
Rated residual operated current	30mA、50mA、75mA、100mA、150mA、200mA、300mA					
Instantaneous tripping type	C, D					
Mechanical life(times)	20000					
Electrical life(times)	6000 (In≤100A) , 4000 (In>100A)					

Outlines and dimensions







EXB3L1 Residual current operated circuit breakers without over-current protection (magnetic)

Functions and Features

In accordance with IEC61008-1、GB/T 16916.1

The EXB3L1-100 residual current circuit breakers functions:

- Isolation function - Earth leakage current production



Technical data

Items	Parameter					
Standards	GB/T 16916.1、GB/T 16916.21、IEC61008-1					
Rated voltage(Ue)	240V(2P)、415V(4P)					
Insulation voltage(Ui)	500V					
Rated impulse withstand voltage(Uimp)	4kV					
No. of poles	2P、4P					
Rated current (In)	16A,25A,32A,40A,50A,63A,80A,100A					
Rated residual operating current(I△n)	10mA(16A,25A,32A,40A),30mA,50mA,100mA,300mA					
Туре	AC, A					
Rated current making & breaking capacity(Im)	1000A					
Rated residual current making & breaking capacity(I \triangle m)	1000A					
Rated conditional short-circuit current(Inc)	10kA					
Rated residual conditional short-circuit current(I \triangle c)	10kA					

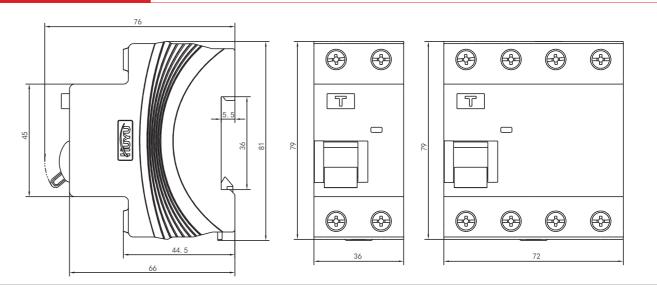
Breaking time of residual current under Ian

Type (wave form of the earth	I△n(mA)	In(A)	Maximum breaking time						
leakage sensed)	IZII(IIIA)	III(A)	I△n	2l∆n	5l∆n	250mA			
Rated sensitivity of A/AC type	>30	16A,25A,32A,40A	0.1	0.1	0.04	_			
Rated sensitivity of A/AC type	≤30	50A,63A,80A,100A	0.1	0.1	_	0.04			
	I A = (A)	In(A)	Maximum breaking time						
Poted consitivity of A type	I△n(mA)		1.4l△n	2.8I∆n	7l△n	0.35A			
Rated sensitivity of A type	>30	16A,25A,32A,40A	0.1	0.1	0.04	_			
	€30	50A,63A,80A,100A	0.1	0.1	_	0.04			

The circuit breaker is connected with cable (the cable selection is shown in Table 3), Tightening torque: 2.0 N·m \sim 2.5 N·m

Rated current In(A)	16、20	25	32	40、50	63	80	100
Terminal size for cable(mm2)	2.5	4	6	10	16	25	35

Outlines and dimensions



13 / Miniature circuit breaker



(H)

EXH3 Disconnecting Switches

Functions and Features

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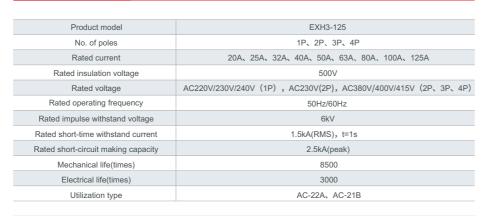
EXB3 accessories (63 frame size)

In accordance with GB/T 14048.3 and IEC60947-3

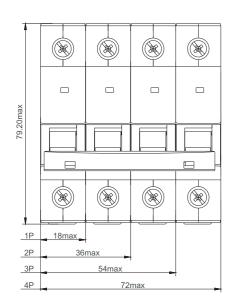
The EXH3-125 disconnector switches offer below functions:

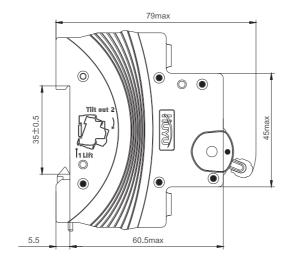
- Isolation function

Technical data



Outlines and dimensions



















Remote indication accessories

OF auxiliary contact

Accessories

- External circuit, indicating the circuit breaker's ON/OFF status
- Basic type of auxiliary contact: 1NO/1NC
- Wiring capacity: 1-2.5mm² wire
- SD alarm contact
- Send signals of fault tripping of the circuit breaker
- With mechanical indication available on the front panel, to indicate fault tripping
- Basic type of auxiliary contact: 1NO/1NC
- Wiring capacity: 1-2.5mm² wire

Tripping accessories

- MX+OF shunt release
- External circuit, indicating the circuit breaker's ON/OFF status
- The circuit breaker for use with the release will be triggered to trip upon receiving a signal
- Basic type of auxiliary contact: 1NO/1NC
- Wiring capacity: 1-2.5mm² wire
- MV over-voltage release
- Provide line protection due to over-voltage fault
- The circuit breaker for use with the release will be triggered to trip when the voltages at both ends of the releasee rise to the rated voltage range
- With fault tripping indication available on the front panel, to indicate an over-voltage tripping with the indicator popped up
- Rated operating tripping over-voltage: (280±14) V AC
- Wiring capacity: 1-2.5mm² wire
- MN under-voltage release
- Provide line protection due to under-voltage fault
- The circuit breaker for use with the release will be triggered to trip when the voltages at both ends of the releasee drop to the rated voltage range
- With fault tripping indication available on the front panel, to indicate under-voltage tripping with the indicator popped up
- Rated operating tripping under-voltage: (161±8.05) V AC
- Under-voltage protection range: (35% \sim 70%) of Ue
- Wiring capacity: 1-2.5mm² wire
- MVMN over/under-voltage release
- Provide line protection due to over-voltage and under-voltage fault
- The circuit breaker for use with the release will be triggered to trip when the voltages at both ends of the releasee rise or drop to the rated range
- With fault tripping indication available on the front panel, to indicate over-voltage or under-voltage tripping with the indicator popped up
- Rated operating tripping over-voltage: (280±14) VAC
- Rated operating tripping under-voltage: (161±8.05) VAC
- Under-voltage protection range: (35% \sim 70%) of Ue
- Wiring capacity: 1-2.5mm² wire
- MNs loss-voltage release
- The circuit breaker for use with the release will be triggered to trip when the power supply voltage drops to the rated range, to achieve under-voltage protection
- Ensure the circuit breaker to close normally when the power supply voltage returns to normal
- Prevent the circuit breaker from re-closing when the power supply voltage is zero or drops to the rated voltage range
- With fault tripping indication available on the front panel, to indicate under-voltage tripping when popped up
- Rated operating tripping under-voltage: (161 \pm 8.05) VAC, with under-voltage protection range of (35% \sim 70%) of Ue
- Normal recovery voltage: \ge 85%Ue, with loss-voltage protection range <35%Ue
- Wiring capacity: 1-2.5mm² wire

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Accessories

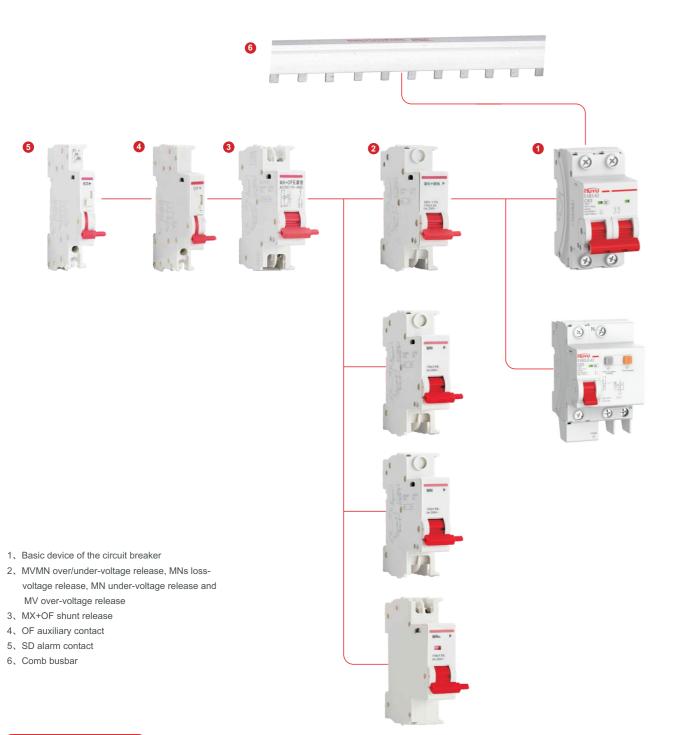
EXB3 accessories (63 frame size)

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Accessories

EXB3 accessories (125 frame size)

Accessory mounting diagram



Mounting instruction

- 1、Accessories can be assembled to breaker left side by tool-free.
- 2、The total mounting width is within 54mm, including OF, SD (3 max.) +MO, MNs, MV, MN, MVMN (2 max.) + MCB from left to right.













Remote indication accessories

- OF auxiliary contact
- External circuit, indicating the circuit breaker's ON/OFF status
- Basic type of auxiliary contacts: 1NO/1NC
- Wiring capacity: 1-2.5mm² wire
- SD alarm contact
- Send signals of fault tripping of the circuit breaker
- With mechanical indication available on the front panel, to indicate fault tripping
- Basic type of auxiliary contacts: 1NO/1NC
- Wiring capacity: 1-2.5mm² wire

Tripping accessories

- MX+OF shunt release
- External circuit, indicating the circuit breaker's ON/OFF status
- The circuit breaker for use with the release will be triggered to trip upon receiving a signal
- Basic type of auxiliary contacts: 1NO/1NC
- Wiring capacity: 1-2.5mm² wire
- MV over-voltage release
- Offer line protection in case of over-voltage faults
- The circuit breaker for use with the release will be triggered to trip when the voltages at both ends of the releasee rise to the rated voltage range
- With fault tripping indication available on the front panel, to indicate an over-voltage tripping with the indicator popped up
- Rated operating tripping over-voltage: (280±14) V AC
- Wiring capacity: 1-2.5mm² wire
- MN under-voltage release
- Offer line protection in case of under-voltage faults
- The circuit breaker for use with the release will be triggered to trip when the voltages at both ends of the releasee drop to the rated voltage range
- With fault tripping indication available on the front panel, to indicate an under-voltage tripping with the indicator popped up
- Rated operating tripping under-voltage: (161±8.05) V AC
- Under-voltage protection range: (35% \sim 70%) of Ue
- Wiring capacity: 1-2.5mm² wire
- MVMN over/under-voltage release
- Offer line protection in case of over-voltage and under-voltage faults
- The circuit breaker for use with the release will be triggered to trip when the voltages at both ends of the releasee rise or drop to the rated voltage range
- With fault tripping indication available on the front panel, to indicate over-voltage or under voltage tripping with the indicator popped up
- Rated operating tripping over-voltage: (280±14) VAC
- Rated operating tripping under-voltage: (161 \pm 8.05) V AC
- Under-voltage protection range: (35% $\sim\!70\%$) of Ue
- Wiring capacity: 1-2.5mm² wire
- MNs loss-voltage release
- The circuit breaker for use with the release will be triggered to trip when the power supply voltage drops to the rated voltage range, to achieve under-voltage protection
- Ensure the circuit breaker to close normally when the power supply voltage returns to normal
- Prevent the circuit breaker from re-closing when the power supply voltage is zero or drops to the rated voltage range
- With fault tripping indication available on the front panel, to indicate under-voltage tripping when popped up
- Rated operating tripping under-voltage: (161 \pm 8.05) V AC, with under-voltage protection range of (35% \sim 70%) of Ue
- Normal recovery voltage: ≥85%Ue, with loss-voltage protection range <35%Ue
- Wiring capacity: 1-2.5mm² wire

Accessories

EXB3 accessories (63 frame size)

Accessory mounting diagram



















- 1、Circuit breaker
- 2、MVMN over/under-voltage release, MNs loss-voltage release, MN under-voltage release and MV over-voltage release
- 3、MX+OF shunt release
- 4. OF auxiliary contact
- 5、SD alarm contact

Mounting instruction

- 1. OF and SD are mounted on the left side of the circuit breaker, and only one accessory can be mounted on the left side of each circuit breaker
- MX+OF, MV, MN, and MVMN are mounted on the right side of the circuit breaker, and only one accessory can be mounted on the right side of each circuit breaker
- 3、Accessories can not be mounted on the right side of EXB3LE-125 residual current products
- 4、Accessories can be mounted to EXB3-125 and EXB3LE-125 series circuit breakers
- 5. The above accessories cannot be ordered separately; they need to be mounted onto the circuit breaker before delivery from the factory

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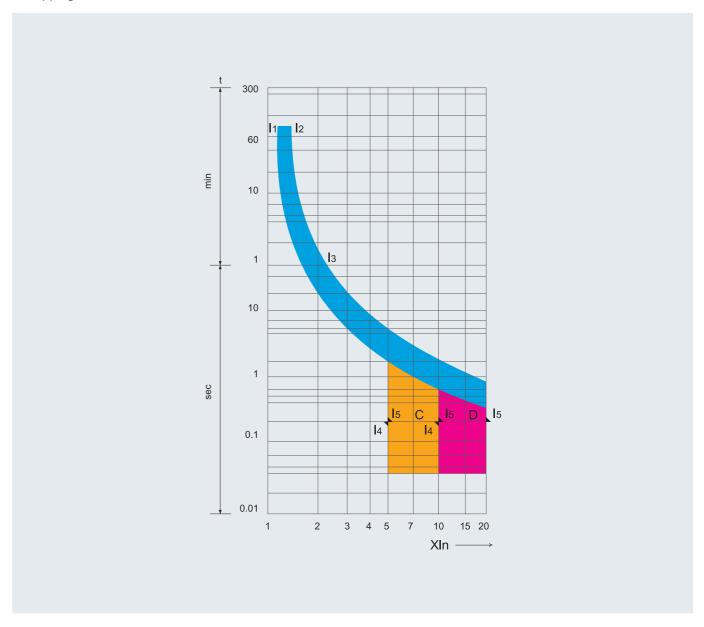
Accessories Tripping characteristics

Tripping characteristics

Tripping characteristics of EXB3-40

Relea	ase type	С	C D		Start state Tripping time	
Thermal tripping	I1	1.13ln		Cold state	t≤1h	No tripping
Thermal tripping	12	1.45ln		Following the above test	t < 1h	Tripping
Magnetic tripping	14	5In	10ln	Normal temperature	t≤0.1s	No tripping
Magnetic tripping	15	10ln	20ln	Normal temperature	t < 0.1s	Tripping

Tripping characteristic curves





Accessories

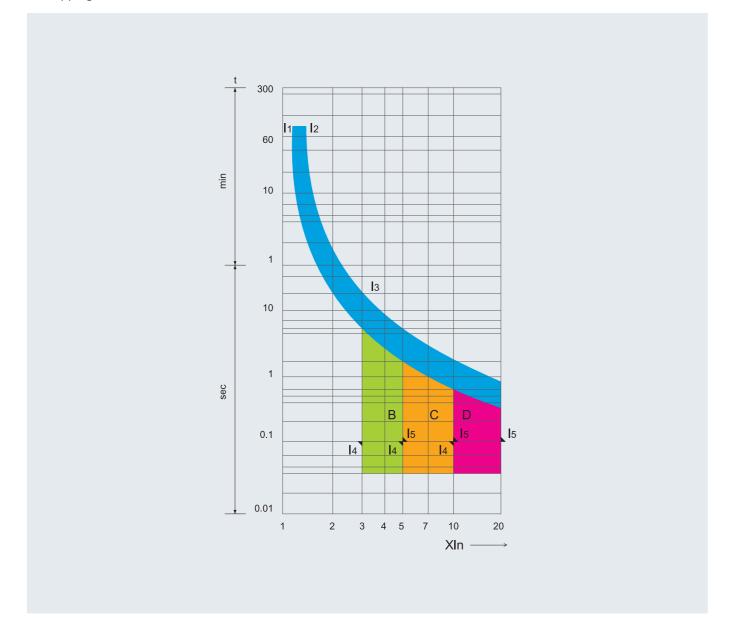
Tripping characteristics

Tripping characteristics

Tripping characteristics of EXB3-63, EXB3LY-63, and EXB3LE-63

Relea	ase type	В	С	D	Start state	Tripping time	Expected outcome
Thermal tripping	I ₁		1.13ln		Cold state	t≤ 1h	No tripping
Thermal tripping	12		1.45ln		Following the above test	t<1h	Tripping
Magnetic tripping	14	3ln	5ln	10ln	Cold state	t≤ 0.1s	No tripping
Magnetic tripping	I 5	5ln	10ln	20In	Cold state	t < 0.1s	Tripping

• Tripping characteristic curve





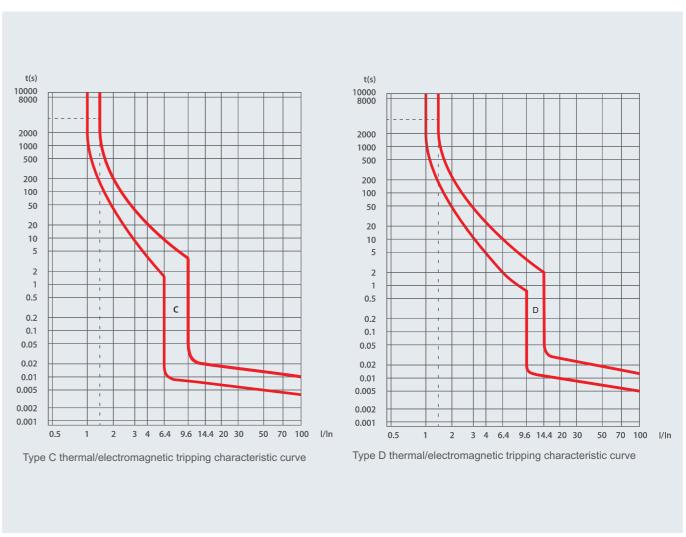
Accessories Tripping characteristics

Tripping characteristics

Tripping characteristics of EXB3-125 and EXB3LE-125

Over-current release type	Magnetic tripping In(A)	Test current (A)	Tripping time	Start state	Expected outcome	Testing ambient temperature		
	≤63	4.051-	≤1h	0-14-4-4-	No februir			
The recal trianing	> 63	1.05ln	≤2h	Cold state	No tripping	30℃±2℃		
Thermal tripping	≤63	1.30ln	< 1h	Thermal state	Trinning	30 C±2 C		
	> 63	1.30111	< 2h	mermai state	Tripping			
		6.4In	≤0.2s		No tripping			
		9.6In	< 0.2s		Tripping			
Magnetic trianing	63、80、	8In	≤0.2s	Cold state	No tripping	Namedamana		
Magnetic tripping	100、125	12In	< 0.2s	Cold state	Tripping	Normal temperature		
		9.6In	≤0.2s		No tripping			
		14.4In	< 0.2s		Tripping			

• Tripping characteristic curve





Accessories

Temperature correction table

Temperature correction table

• Temperature correction table of EXB3-40

	Data dammant A	Rated current correction value A												
Rated current A	-35°C	-20°C	-10°C	0°C	10°C	20°C	30°C	40°C	50°C	60°C	70°C			
	6	1.3	1.23	1.18	1.13	1.08	1.03	1	0.96	0.91	0.87	0.82		
	10-25	1.27	1.24	1.19	1.13	1.07	1.02	1	0.96	0.91	0.87	0.82		
	32-40	1.27	1.24	1.19	1.13	1.08	1.04	1	0.97	0.92	0.88	0.83		

Temperature correction table of EXB3-63

Rated current A		Rated current correction value A												
	-35°C	-20°C	-10°C	0°C	10°C	20°C	30°C	40°C	50°C	60°C	70°C			
1-6	1.28	1.25	1.18	1.13	1.08	1.03	1	0.96	0.91	0.87	0.82			
10-25	1.27	1.24	1.19	1.13	1.07	1.02	1	0.96	0.91	0.87	0.82			
32-40	1.27	1.24	1.19	1.13	1.08	1.04	1	0.97	0.92	0.88	0.83			
50-63	1.28	1.25	1.18	1.13	1.08	1.03	1	0.96	0.91	0.87	0.82			

• Temperature correction table of EXB3-63H

Rated current A		Rated current correction value A												
Rated current A	-35°C	-20°C	-10°C	0°C	10°C	20°C	30°C	40°C	50°C	60°C	70°C			
1-6	1.28	1.25	1.18	1.13	1.08	1.03	1	0.96	0.91	0.87	0.82			
10-25	1.27	1.24	1.19	1.13	1.07	1.02	1	0.96	0.91	0.87	0.82			
32-40	1.27	1.24	1.19	1.13	1.08	1.04	1	0.97	0.92	0.88	0.83			
50-63	1.28	1.25	1.18	1.13	1.08	1.03	1	0.96	0.91	0.87	0.82			

Temperature correction table of EXB3-125

Rated current A		Rated current correction value A													
	-40°C	-30°C	-20°C	-10°C	0°C	10°C	20°C	30°C	40°C	50°C	60°C	70°C			
63	1.31	1.29	1.25	1.2	1.15	1.11	1.05	1	0.94	0.88	0.82	0.75			
80	1.31	1.29	1.25	1.2	1.15	1.11	1.05	1	0.94	0.88	0.82	0.75			
100	1.31	1.29	1.25	1.2	1.15	1.11	1.05	1	0.94	0.88	0.82	0.75			
125	1.31	1.29	1.25	1.2	1.15	1.11	1.05	1	0.94	0.88	0.82	0.75			

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Accessories

Temperature correction table

Temperature correction table

• Temperature correction table of EXB3LY-63

Rated current A		Rated current correction value A													
	-35°C	-20°C	-10°C	0°C	10°C	20°C	30°C	40°C	50°C	60°C	70°C				
6	1.45	1.4	1.3	1.23	1.15	1.08	1	0.98	0.96	0.93	0.91				
10-25	1.27	1.24	1.19	1.13	1.08	1.04	1	0.98	0.95	0.92	0.89				
32-40	1.27	1.24	1.19	1.13	1.08	1.04	1	0.97	0.92	0.89	0.87				
50-63	1.26	1.25	1.18	1.13	1.08	1.03	1	0.95	0.9	0.86	0.84				

Temperature correction table of EXB3LE-63

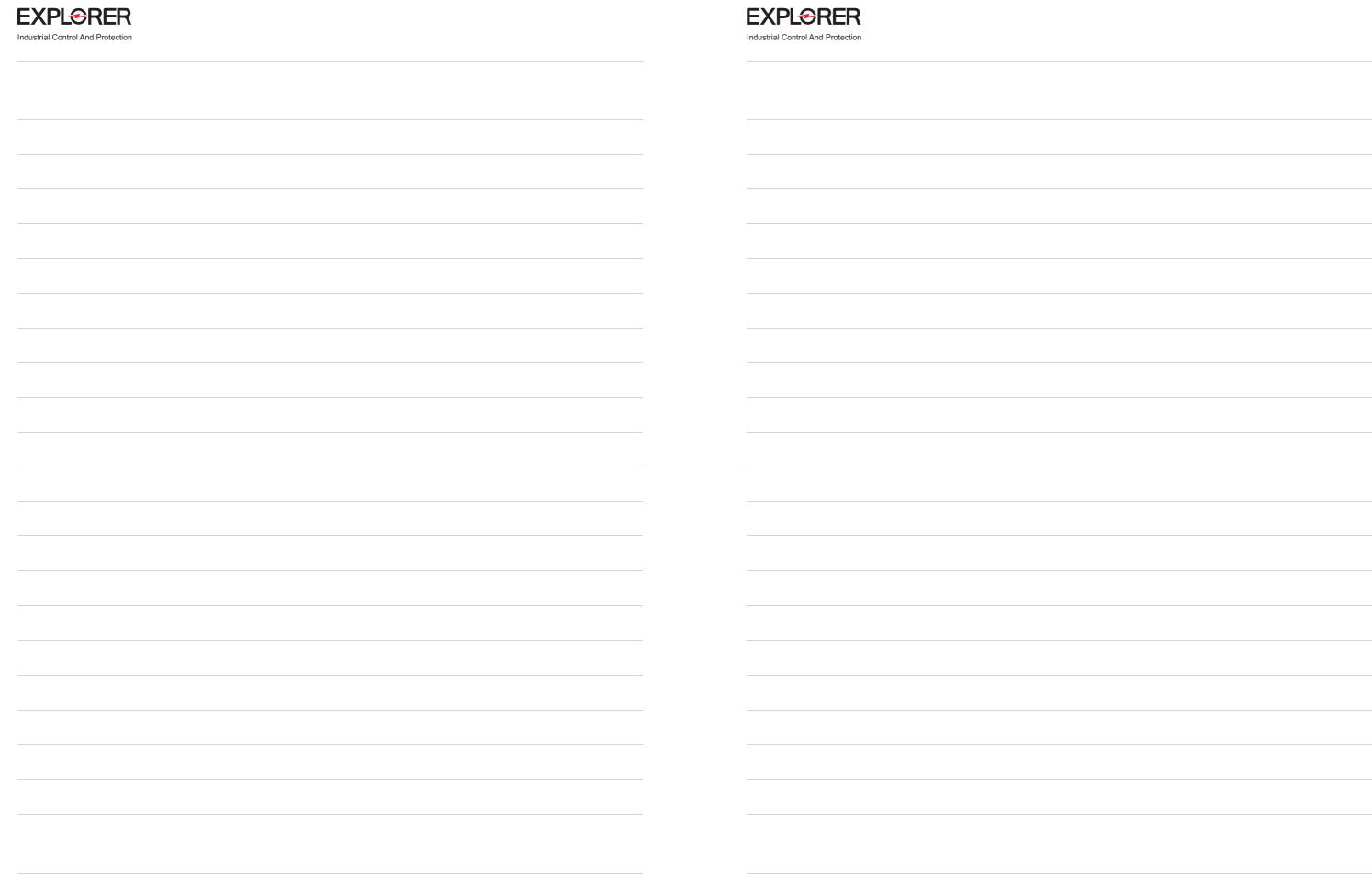
Rated current A		Rated current correction value A													
	-35°C	-20°C	-10°C	0°C	10°C	20°C	30°C	40°C	50°C	60°C	70°C				
6	1.45	1.4	1.3	1.23	1.15	1.08	1	0.98	0.96	0.93	0.91				
10-25	1.27	1.24	1.19	1.13	1.08	1.04	1	0.98	0.95	0.92	0.89				
32-40	1.27	1.24	1.19	1.13	1.08	1.04	1	0.97	0.92	0.89	0.87				
50-63	1.26	1.25	1.18	1.13	1.08	1.03	1	0.95	0.9	0.86	0.84				

• Temperature correction table of EXB3LE-63H

Rated current A		Rated current correction value A													
	-35°C	-20°C	-10°C	0°C	10°C	20°C	30°C	40°C	50°C	60°C	70°C				
6	1.45	1.4	1.3	1.23	1.15	1.08	1	0.98	0.96	0.93	0.91				
10-25	1.27	1.24	1.19	1.13	1.08	1.04	1	0.98	0.95	0.92	0.89				
32-40	1.27	1.24	1.19	1.13	1.08	1.04	1	0.97	0.92	0.89	0.87				
50-63	1.26	1.25	1.18	1.13	1.08	1.03	1	0.95	0.9	0.86	0.84				

Temperature correction table of EXB3LE-125

Rated current A		Rated current correction value A													
	-40°C	-30°C	-20°C	-10°C	0°C	10°C	20°C	30°C	40°C	50°C	60°C	70°C			
63	1.31	1.29	1.25	1.2	1.15	1.11	1.05	1	0.94	0.88	0.82	0.75			
80	1.31	1.29	1.25	1.2	1.15	1.11	1.05	1	0.94	0.88	0.82	0.75			
100	1.31	1.29	1.25	1.2	1.15	1.11	1.05	1	0.94	0.88	0.82	0.75			
125	1.31	1.29	1.25	1.2	1.15	1.11	1.05	1	0.94	0.88	0.82	0.75			



25 / Miniature circuit breaker