







HUANYU HIGH-TECH CO., LTD A JOINT VENTURE WITH EAT

P.C.: 32560

Corporate WeChat QR code

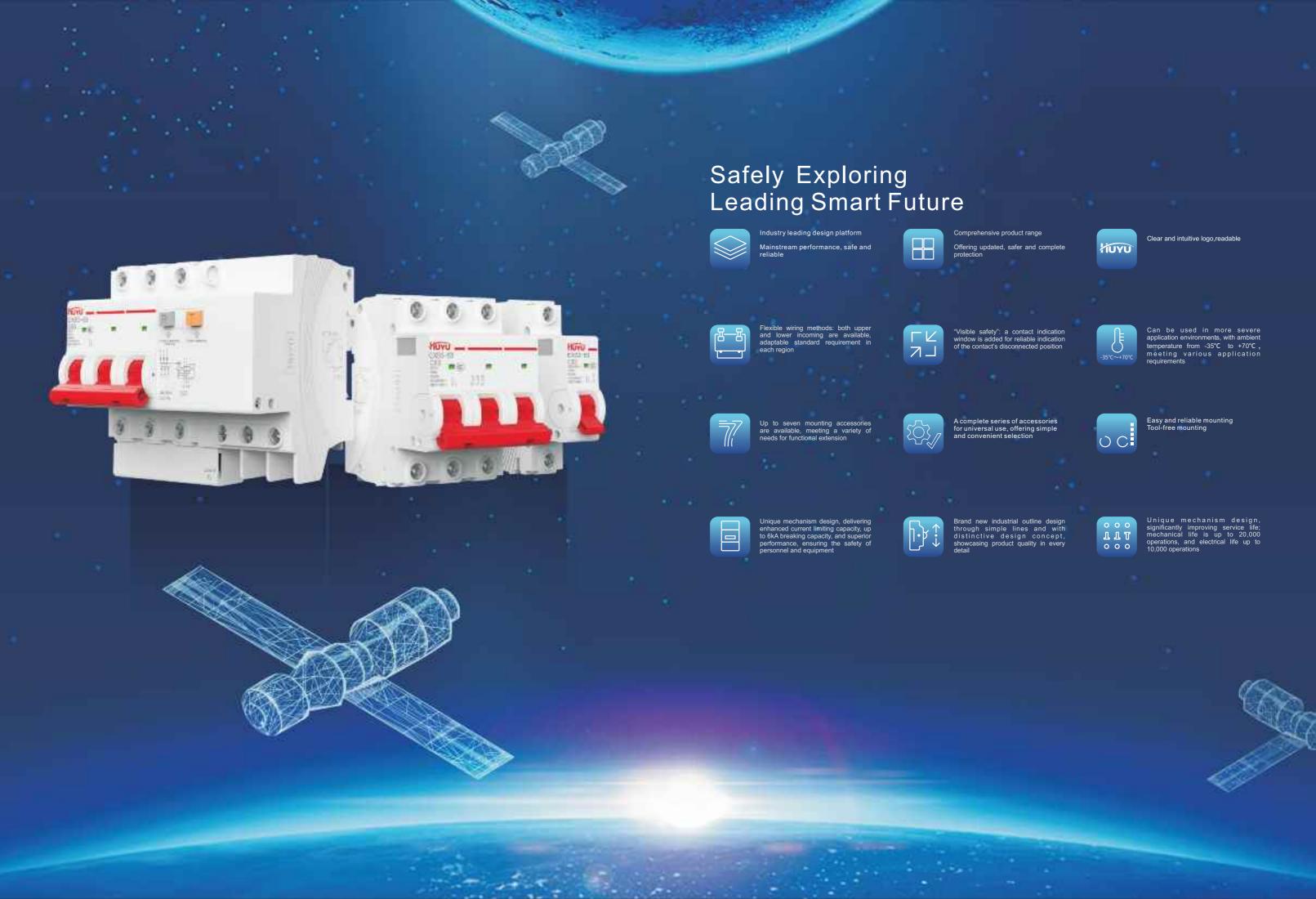


021 Huanyu High-Tech CO., LTD. All rights reserved. All data and information will be subject to the latest confirmation by Version No.: May 2021 Tech Dept., due to constant technical updates.

This brochure is printed on eco-friendly paper

+86 400-887-5757







01

Product Description

- 1-3 Product data
- 4-6 Product description and selection

02

Miniature Circuit Breaker

- 7 EXB3-40 Miniature circuit breaker
- 8 EXB3-63 Miniature circuit breaker
- 9 EXB3-63H Miniature circuit breaker
- 10 EXB3-125 Miniature circuit breaker

03

Residual Current Circuit Breaker with Overcurrent Protection

- 11 EXB3LY-63 Residual Current Circuit Breaker with Overcurrent Protection
- 12 EXB3LE-63(H) Residual Current Circuit Breaker with Overcurrent Protection
- 13 EXB3LE-125 Residual Current Circuit Breaker with Overcurrent Protection

04

Residual current operated circuit breakers (magnetic)

14 EXB3L1 -100 Residual current operated circuit breakers without over-current protection (magnetic)

05

Disconnector Switch

15 EXH3-125 Disconnecting switch

36

Accessories

16-17 EXB3-63 Accessory

18-19 EXB3-125 Accessory

07

Appendix

20-22 Tripping characteristics

23-24 Temperature coefficient correction table



Product Description Product data

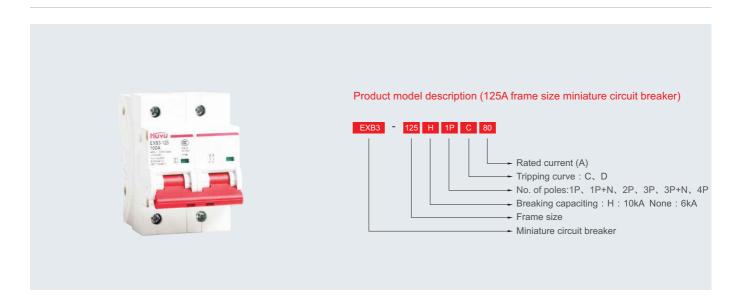
EXB3-125	EXB3LY-63	EXB3LE-63

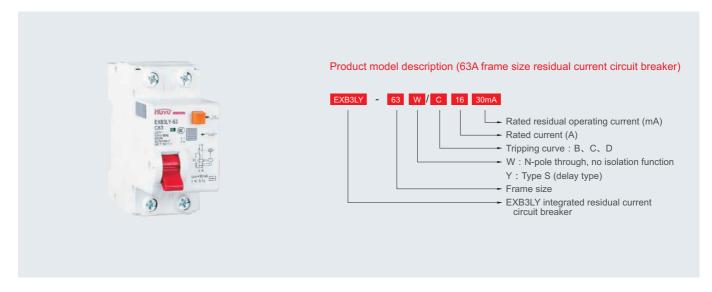
GB/T 16917.1、IEC61009-1	GB/T 16917.1、IEC61009-1
1P+N	1P+N、2P、3P、3P+N、4P
	6~63
	AC220/230/240 (1P+N、2P)
7.02007	AC380/400/415 (3P、 3P+N、4P)
50/60	50/60
	Type AC
	30、50、75、100、150、200、300
	6000
	6000
-	-
-	-
4	4
(power frequency 1min) 2000	(power frequency 1min) 2000
20000	20000
10000	10000
•	•
•	•
28 periodic cycles ,	28 periodic cycles ,
RH: 90-96% at 55°C	RH: 90-96% at 55°C
RH: 95-100% at 25°C	RH: 95-100% at 25°C
30	30
-35 ~ +70	-35~+70
-35 ~ +85	-35 ~ +85
	≤2000m
	25
	2
Top-in,Bottom-out	Top-in,Bottom-out
TH35-7.5 standard rail mounting	TH35-7.5 standard rail mounting
2	2
2 IP20 IP40	2 IP20 IP40
2 IP20	2 IP20
2 IP20 IP40 OF auxiliary contact	2 IP20 IP40 OF auxiliary contact
2 IP20 IP40 OF auxiliary contact SD alarm contact MX+OF shunt release MN under-voltage release	2 IP20 IP40 OF auxiliary contact SD alarm contact MX+OF shunt release MN under-voltage release
2 IP20 IP40 OF auxiliary contact SD alarm contact MX+OF shunt release	2 IP20 IP40 OF auxiliary contact SD alarm contact MX+OF shunt release
	1P+N 6 ~ 63 AC230V 50/60 Type AC 30, 50 6000 6000 4 (power frequency 1min) 2000 20000 10000 ■ ■ ■ ■ ■ ■ 28 periodic cycles , RH: 90-96% at 55°C RH: 95-100% at 25°C 30 -35 ~ +70 -35 ~ +85 ≤2000m 25 2

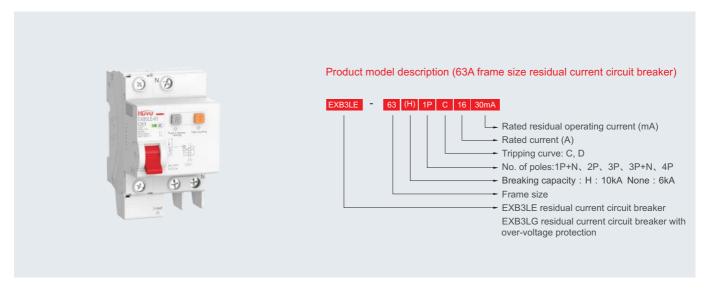


Product Description

Product description and selection









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

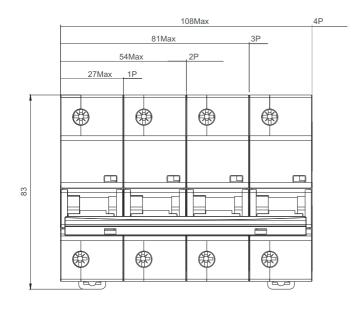
- Isolation function

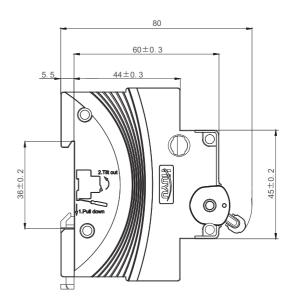




Product model	EXB3-125		
No. of poles	1P、1P+N、2P、3P、3P+N、4P		
Rated current	63A、80A、100A、125A		
Rated voltage	AC230V (1P、1P+N) , C400V (2P、3P、3P+N、4P)		
Rated operating frequency	50Hz/60Hz		
Rated impulse withstand voltage	6kV		
Rated short-circuit breaking capacity	6000A、10000A(H type)		
Operating short-circuit breaking capacity	6000A、7500A(H type)		
Instantaneous tripping type	B, C, D		
Mechanical life(times)	20000		
Electrical life(times)	6000 (In≤100A) , 4000 (In>100A)		

Outlines and dimensions







Accessories

EXB3 accessories (125 frame size)

Remote indication accessories



- 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



- 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%~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±8.05) VAC
- Under-voltage protection range: (35%~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 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	
Thermal tripping	≤63	1.05ln	≤1h	Cold state	No tripping	30°C±2°C	
	> 63		≤2h				
	≤63	1.30ln	< 1h	Thermal state	Tripping		
	> 63		< 2h				
Magnetic tripping	6.4ln 9.6ln 8ln 100、125 12ln 9.6ln 14.4ln	6.4In	≤0.2s	Cold state	No tripping		
		9.6In	< 0.2s		Tripping		
		8In	≤0.2s		No tripping	Normal town and we	
		12In	< 0.2s		Tripping	Normal temperature	
			9.6In	≤0.2s		No tripping	
		14.4In	< 0.2s		Tripping		

Tripping characteristic curve

