





#### HUANYU HIGH-TECH CO., LTD

A JOINT VENTURE WITH EAT Wenzhou Bridae Industr Tel: 0577-628 P.C.: 32560 WWW.

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## **EXPL**ORER SAFELY EXLPLORING **LEADING SMART FUTURE**

## A JOINT VENTURE OF FIT-N HUYU

Huanyu High-Tech Co., Ltd. is a high tech enterprise focusing on the development, manufacturing and marketing of low-voltage electrical components. Established on Zhejiang High Tech. Co, Ltd of Huanyu Group in early 2021, we are a joint venture of Huanyu Group, a large national conglomerate company, and Eaton Group, a global power management company.

Our products are widely used in many applications including power industry, transportation, manufacturing and construction, serving various well-known customers such as the State Grid, China Southern Power Grid, Evergrande Real Estate, Vanke, Country Garden, Poly Real Estate, R&F Properties, the Three Gorges of the Yangtze River, Daging Oilfield, Jiangsu Power Grid, Xi'an Jiaotong University, Guangzhou Baiyun Airport, Shanghai Disney, China FAW, China Railway, and China Railway Construction. Now we have 10+ integrated service centers, 30+ sales offices, 600+ terminal image specialty shops, and over 800 sales outlets in mainland

We have been awarded the National Contract-honoring and Trustworthy Enterprise, National Customer-satisfied Enterprise, National High-Tech Enterprise, Zhejiang Well-known Trade Name, Zhejiang Green Enterprise, Zhejiang Major Taxpayer, and Wenzhou

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## **COMPANY PROFILE**

Mayor Quality Award. In addition, we have been certified with ISO9001 Quality Management System, ISO14001 Environmental Management System and ISO45001 Occupational Health and Safety Management System, and passed more than 10 international certification including the KEMA standard of Netherlands, UL standard of the United States, CE standard of the European Union, system.We have a national post-doctoral research station,

a provincial technology research institute, and a nationally invention patents and utility model patents, and has implemented the National Torch Plan and major provincial scientific research and development projects. Our products have been rated as China Famous Brand Products. National Customer-satisfied Products. and Zhejiang Famous Brand Products. Besides, we have been awarded Zhejiang Manufacturing Quality Certificate and have the right to use Zhejiang "Pin", a word mark meaning quality.

Committed to smart electric to make life better, we will continue to focus on product innovation, talent development, and smart manufacturing, to build a modernized global electrical enterprise.







# Safely Exploring Leading Smart Future













ing methods: both uppe ning are ava



Up to seven mounting accessories are available, meeting a variety of needs for functional extension





Unique mechanism design, delivering enhanced current limiting capacity, up to 6kA breaking capacity, and superior ensuring the

















Brand new industrial outline design through simple lines and with distinctive design concept, showcasing product quality in every detail



Unique mechanism design, significantly improving service life; mechanical life is up to 20,000 operations, and electrical life up to 10,000 concertings





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## 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

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## Product Description

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Pr	'n	dı	ict	t d	a	ta						
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EXB3-125	EXB3LY-63	EXB3LE-63
ENTRY ENTRY ENTRY WITH WITH WITH WITH WITH WITH WITH WITH		
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	Туре АС
-	30、50	30、50、75、100、150、200、300
6000、10000(Type H)	6000	6000
6000、7500 (Type H)	6000	6000
-	-	-
_		
6	4	4
( power frequency 1min ) 2000 20000	( power frequency 1min ) 2000 20000	( power frequency 1min ) 2000 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	OF auxiliary contact SD alarm contact MX+OF shunt release MN under-voltage release MV over-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	MVMN over/under-voltage release MNs no-voltage release	MVMN over/under-voltage release MNs no-voltage release

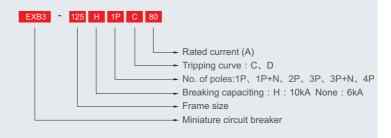


## **Product Description**

Product description and selection



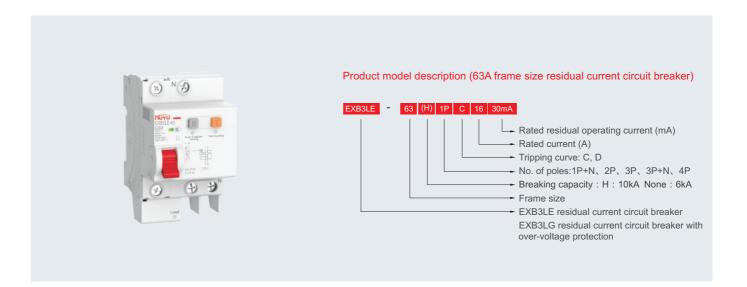
Product model description (125A frame size miniature circuit breaker)





Product model description (63A frame size residual current circuit breaker)

EXB3LY	- 63	<b>w / c</b>	16 30mA	
				Rated residual operating current (mA)
				Rated current (A)
				Tripping curve : B、C、D
				W : N-pole through, no isolation function
				Y : Type S (delay type)
	L			Frame size
				EXB3LY integrated residual current circuit breaker





### EXB3LY-63 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:

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

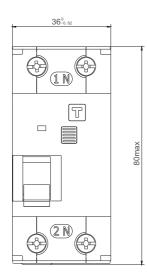
#### Technical data

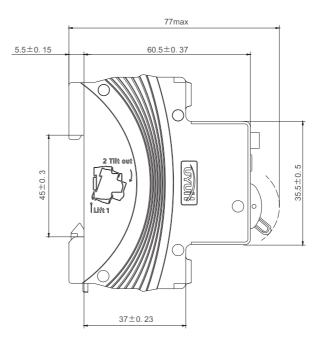
Product model	EXB3LY-63						
No. of poles	See Table 1						
Rated current	6A、10A、16A、20A、25A、32A、40A、50A、63A						
Rated voltage	AC230V						
Rated operating frequency	50Hz/60Hz						
Rated impulse withstand voltage	4kV						
Breaking capacity	See Table 1						
Rated residual operated current	30mA、50mA(only 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









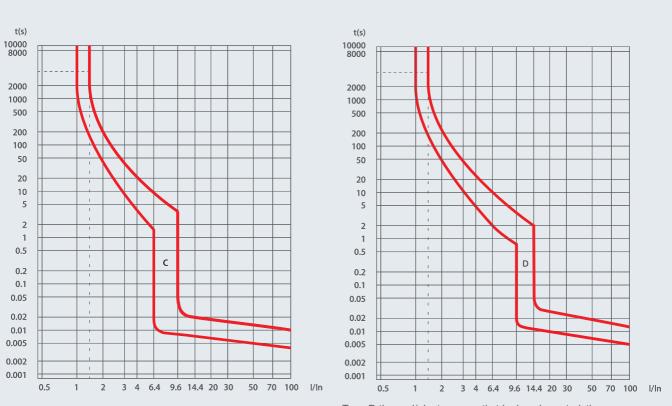
Accessories Tripping characteristics

#### 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	1.05In	≤1h	Cold state	No tripping			
Thermal tripping	> 63	1.05m	≤2h	Cold state	No tripping	30°C±2°C		
	≤63	1.30In	< 1h	Thermal state	Tripping	30 C ±2 C		
	> 63	1.3011	< 2h	Thermal state	mpping			
		6.4In	≤0.2s		No tripping			
		9.6In	< 0.2s		Tripping			
Magnatia trianing	63、80、	8In	≤0.2s	Cold state	No tripping			
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



Type C thermal/electromagnetic tripping characteristic curve

Type D thermal/electromagnetic tripping characteristic curve



Accessories Temperature correction table

#### Temperature correction table

### Temperature correction table of EXB3LY-63

Deted sument 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	8.7	8.4	7.8	7.38	6.9	6.48	6	5.88	5.76	5.58	5.46	
10	12.7	12.4	11.9	11.3	10.8	10.4	10	9.8	9.5	9.2	8.9	
16	20.32	19.84	19.04	18.08	17.28	16.64	16	15.68	15.2	14.72	14.24	
20	25.4	24.8	23.8	22.6	21.6	20.8	20	19.6	19	18.4	17.8	
25	31.75	31	29.75	28.25	27	26	25	24.5	23.75	23	22.25	
32	40.64	39.68	38.08	36.16	34.56	33.28	32	31.04	29.44	28.48	27.84	
40	50.8	49.6	47.6	45.2	43.2	41.6	40	38.8	36.8	35.6	34.8	
50	63	62.5	59	56.5	54	51.5	50	47.5	45	43	42	
63	79.38	78.75	74.34	71.19	68.04	64.89	63	59.85	56.7	54.18	52.92	

### • Temperature correction table of EXB3LE-63

Rated current A 6 10 16 20 25 32 40 50		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	8.7	8.4	7.8	7.38	6.9	6.48	6	5.88	5.76	5.58	5.46	
10	12.7	12.4	11.9	11.3	10.8	10.4	10	9.8	9.5	9.2	8.9	
16	20.32	19.84	19.04	18.08	17.28	16.64	16	15.68	15.2	14.72	14.24	
20	25.4	24.8	23.8	22.6	21.6	20.8	20	19.6	19	18.4	17.8	
25	31.75	31	29.75	28.25	27	26	25	24.5	23.75	23	22.25	
32	40.64	39.68	38.08	36.16	34.56	33.28	32	31.04	29.44	28.48	27.84	
40	50.8	49.6	47.6	45.2	43.2	41.6	40	38.8	36.8	35.6	34.8	
50	63	62.5	59	56.5	54	51.5	50	47.5	45	43	42	
63	79.38	78.75	74.34	71.19	68.04	64.89	63	59.85	56.7	54.18	52.92	

### Temperature correction table of EXB3LE-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		
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										
Raled current A	-35°C	-20°C	-10°C	0°C	10°C	20°C	30°C	40°C	50°C	60°C	70°C	
63	78.6	76.3	73.8	71.3	68.6	65.9	63	60	56.8	53.5	49.9	
80	98.4	95.6	92.7	89.7	86.6	83.4	80	76.5	72.8	69	64.9	
100	124.5	120.7	116.9	112.9	108.8	104.5	100	95.3	90.4	85.2	79.6	
125	157	152.2	147.1	141.9	136.5	130.9	125	118.8	112.3	105.4	98	