

AT/F Series

Installation Devices

www.gacia.com.cn



GACIA

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GACIA ELECTRICAL APPLIANCE CO., LTD.

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Company Profile

Gacia Electrical Appliance Co., Ltd is an export-oriented high-tech enterprise specializing in R&D, production and sales of various low-voltage circuit breakers. The company was established in August 2002 and is headquartered in Wenzhou. After 20 years of development, it has formed a three-in-one strategic layout of Zhejiang, Jiangxi, and Shanghai. The plant area is 160,000 square meters, the company has 1,200 employees and has an annual output of 100,000,000 poles of MCB, 4,000,000 pcs of RCCB/RCBO, and 300,000 pcs of MCCB.

Gacia adhere to business principle referring to "customer-centric, Altruism and Win-win". Besides, Gacia devoted to utilize innovation to drive production improvement, take advantage of lean production to upgrade products quality and committed to become the pacemaker of the global circuit breaker industrial. The products are sold best in more than 60 countries and regions in all of the world. Long-term cooperative relations have been established with three enterprises of the world's top 500. The annual R & D investment on new products is not less than 5% of the annual sales, and has won more than 130 national patents, including 12 invention patents, and participated in the formulation of a number of industry standards that applied for the registration of international trademarks in 123 countries and regions. Overseas independent brand agents were set up in 38 countries and more than 80 international product certifications were obtained. The "GACIA" trademark was recognized as the "recommended brand of China's export products by the Ministry of Commerce".

GACIA

Smart Factory

- Make manufacturing more transparent
- Make delivery faster
- Make decisions smarter



Miniature Circuit Breaker

FB8SZ,4.5kA

Miniature Circuit Breaker according to IEC/EN 60898-1

Rated short circuit breaking capacity 4.5kA

1 up to 4-pole versions

Tripping characteristics B, C, D

Rated current up to 63A

Rated operational voltage 230/400V AC

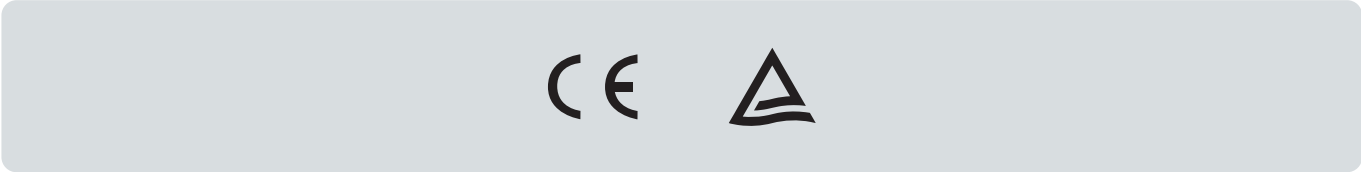
FB8SZ Series miniature circuit breaker is an automatically operated electrical switch, which is engineered to safeguard an electrical circuit against damage brought about by excessive current due to overload or short circuit. Here, "F" stands for "Forward", signifying our forward-thinking innovation and the pursuit of advanced technology. Its fundamental function is to stop the current flow once a fault is detected. These circuit breakers are extensively applied in domestic, commercial, and industrial scenarios.

Moreover, they can also be used for infrequent on-and-off switching operations under normal conditions.

Type Key

F	B	8	S	Z	1P	C	40
Product series	Product category	Design Code	Breaking capacity	Structure Code	Poles	Tripping curve	Rated Current
Forward	MCB	8	4.5KA	No Busbar	1,1N,2,3,3N,4	B,C,D	1-63A

Certification Marks



Product Tips

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1

Reversible line and load connection

2

Contacts position indication window

3

International standards

4

Rated short circuit breaking capacity 4.5kA

5

Tripping characteristics B, C, D

6

The position of handle lock

Miniature Circuit Breaker

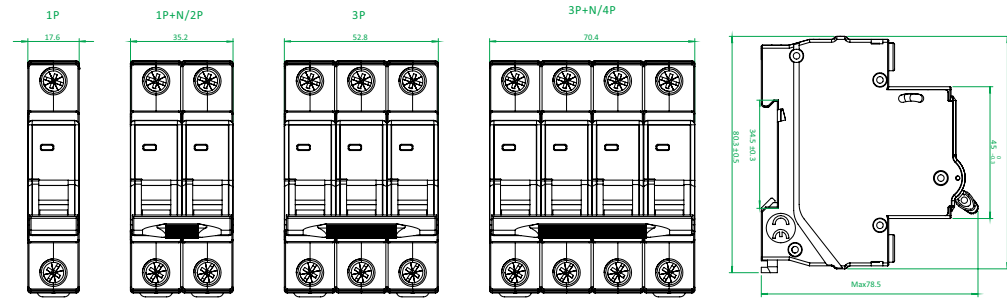
FB8SZ,4.5kA

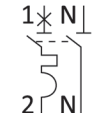
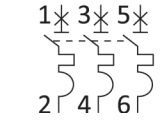
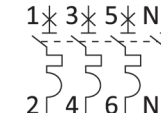
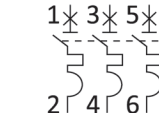
Technical Data

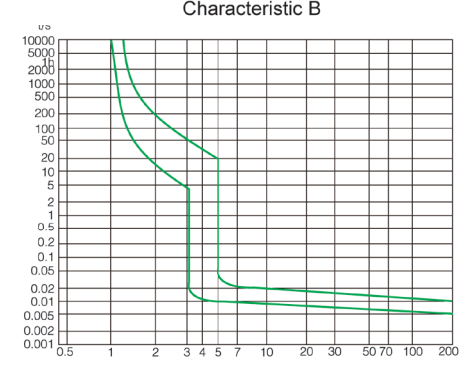
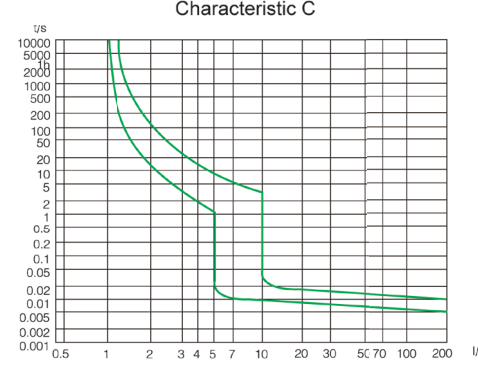
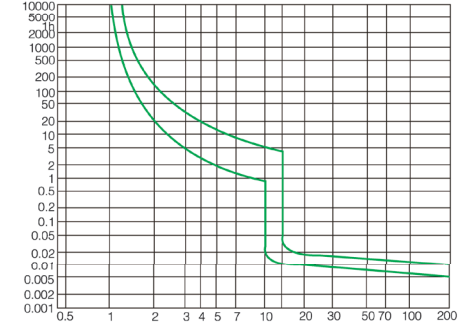
Electrical Features	
International standard	IEC/EN 60898-1
Poles	1P, 1P+N, 2P, 3P, 3P+N, 4P
Rated current	1-63A
Tripping characteristics	B, C, D
Rated breaking capacity	I_{cn} 4.5kA
Rated operational voltage	U_e 230/400V AC
Minimum operational voltage	U_{min} 12V AC
Maximum operational voltage	U_{max} 440V AC
Rated frequency	50/60Hz
Rated insulated voltage	U_i 500V AC
Rated impulse withstand voltage	U_{imp} 6kV
Dielectric test voltage	2kV
Mechanical service life	10000 operation cycles
Electrical service life	4000 operation cycles
Line voltage connection	Arbitrary above or below

Installation Parameters	
Degree of protection (IP)	IP20, IP40 (when fitted)
Operating ambient temperature	-25°C ~+70°C
Terminal connection type	Cable
Connectable conductor cross section	1-25mm ²
Mounting	IEC/EN 60715 top-hat rail 35mm
Fastening torque of terminals	2-3.0N.m
Pollution degree	2
Reference temperature for setting of thermal element	30°C
Altitude	≤ 2000m
Relative humidity	≤ 95%

Technical Data

Dimensions	
	

Wiring Diagrams	
	1P
	1P+N
	2P
	3P
	3P+N
	4P

Tripping Characteristics	
	Characteristic B
	Characteristic C
	Characteristic D