



GACIA



D/V/G Product Information

GACIA

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Gacia Electrical Appliance Co., Ltd

is an export-oriented company, focus on R&D, manufacturing, and sales of circuit breakers. Through 16 years of rapid growth, Gacia has 1700 employees, including 100 technical talents, and 3 manufacturing bases around China. Gacia’ s headquarter located in Wenzhou, the Shanghai campus focus on R&D and high-end manufacturing, and the Jiang xi campus provide OEM manufacturing services for customers all over the world. Meanwhile, Gacia’ s products export to over 100 countries and regions, and 80% of them are independent developed by Gacia. A majority of Gacia’ s products authenticated by many international professional certifications including German TUV, VDE certifications, Dutch KEMA certification and ISO 9001 international quality system.

After more than a decade of development, 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.

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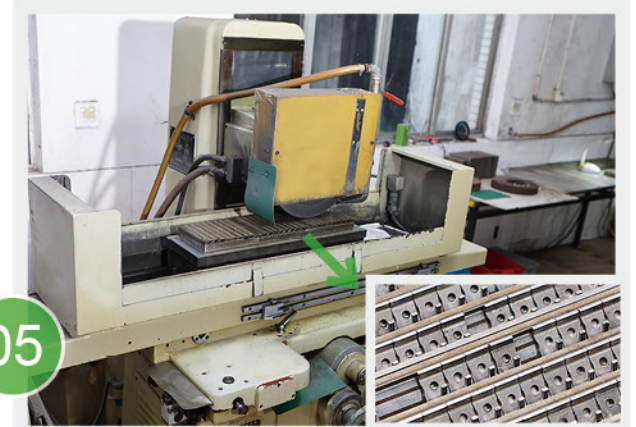
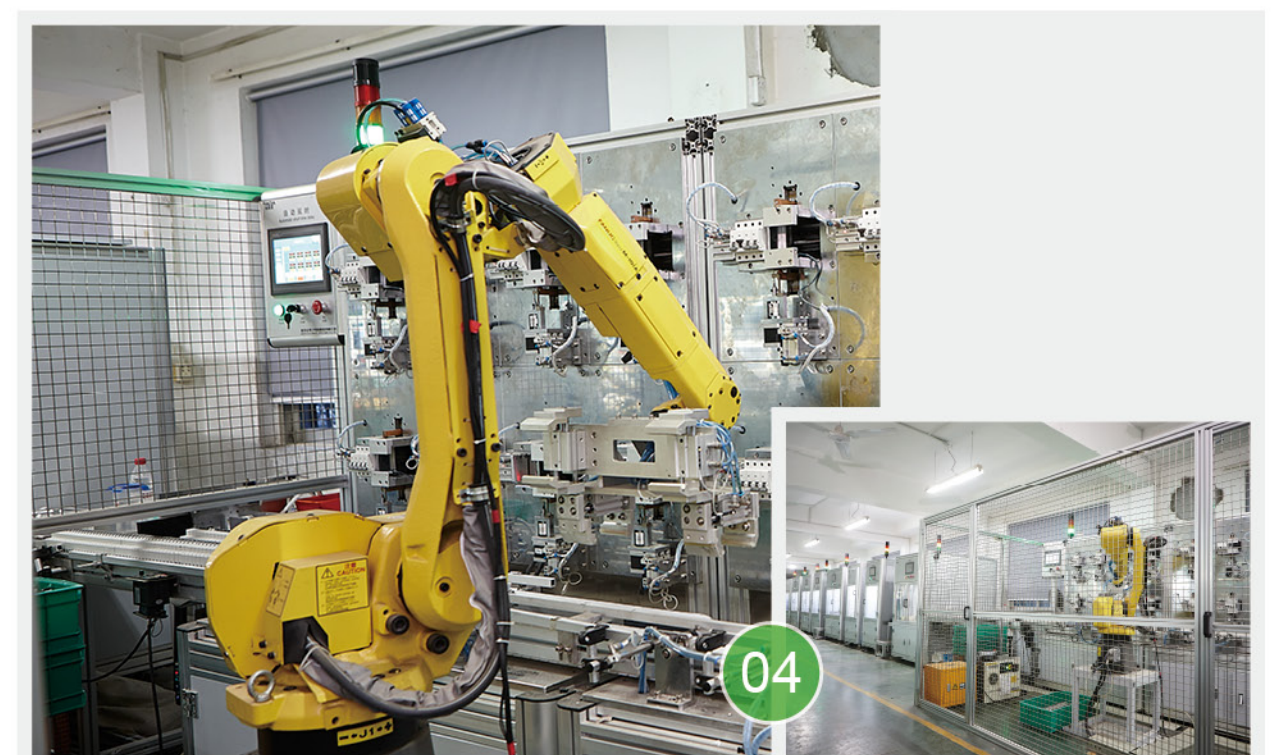
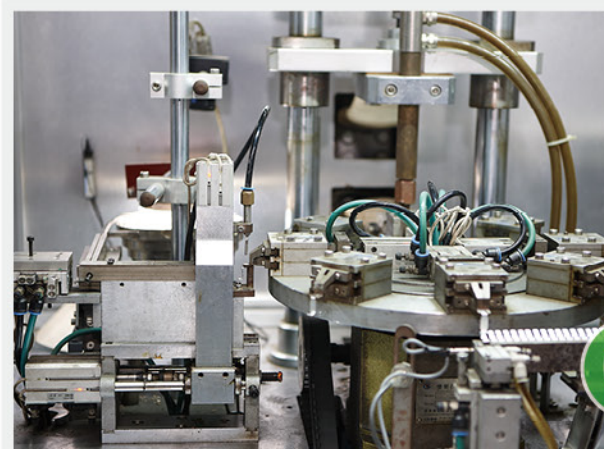
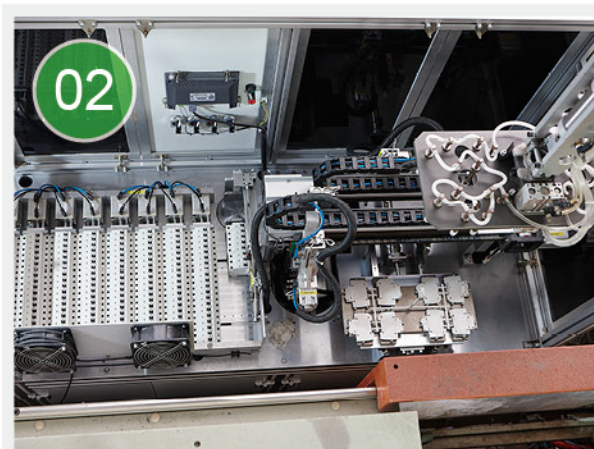
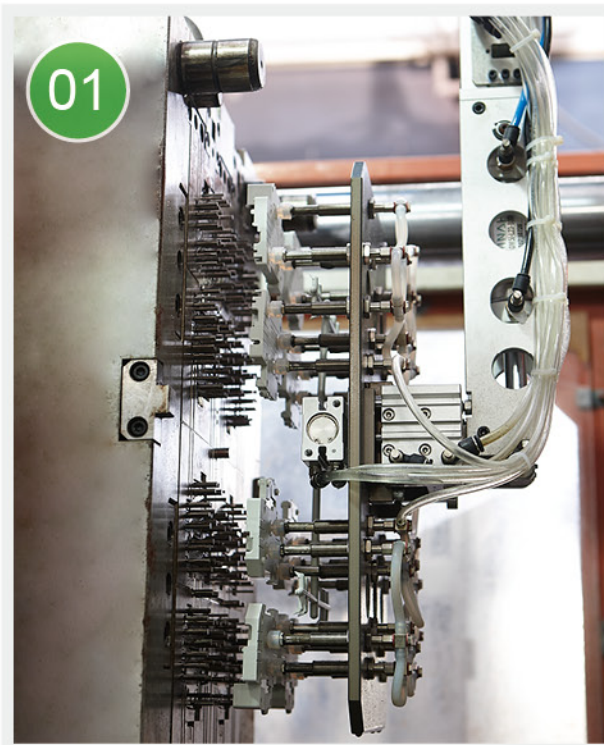


Core Manufacturing Advantages

GACIA

- 01 Independent Research and develop hot runner mold which can drop 8 pcs shells one time.
- 02 Injection closing unit device with automatic clamping and shaping process instead of traditional labour.
- 03 High-speed Punch Press Machine & Auto Welding Machine. The integration of stamping and welding process could reduce components damage and increase the qualification rate significantly for the metal parts.

- 04 Intelligent Manufacturing with quality auto monitoring pack and data interconnection pack could avoid artificial errors and improve product reliability.
- 05 Operating Mechanism plant and Tripper plant.
The most important parts of RCD are produced by GACIA to insure quality warranty.



Pacemaker
of circuit breakers



Quality Warranty:

Complete Manufacturing System for Components&Parts

Precise Manufacturing Process

Selecting High-class Raw Material

Strict Detecting System

Using Occasions:

Residential, Commercial, Industrial, Tender, Projects Uses | ★★★★★

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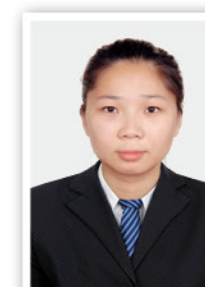
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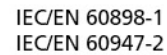









A/F Hotline







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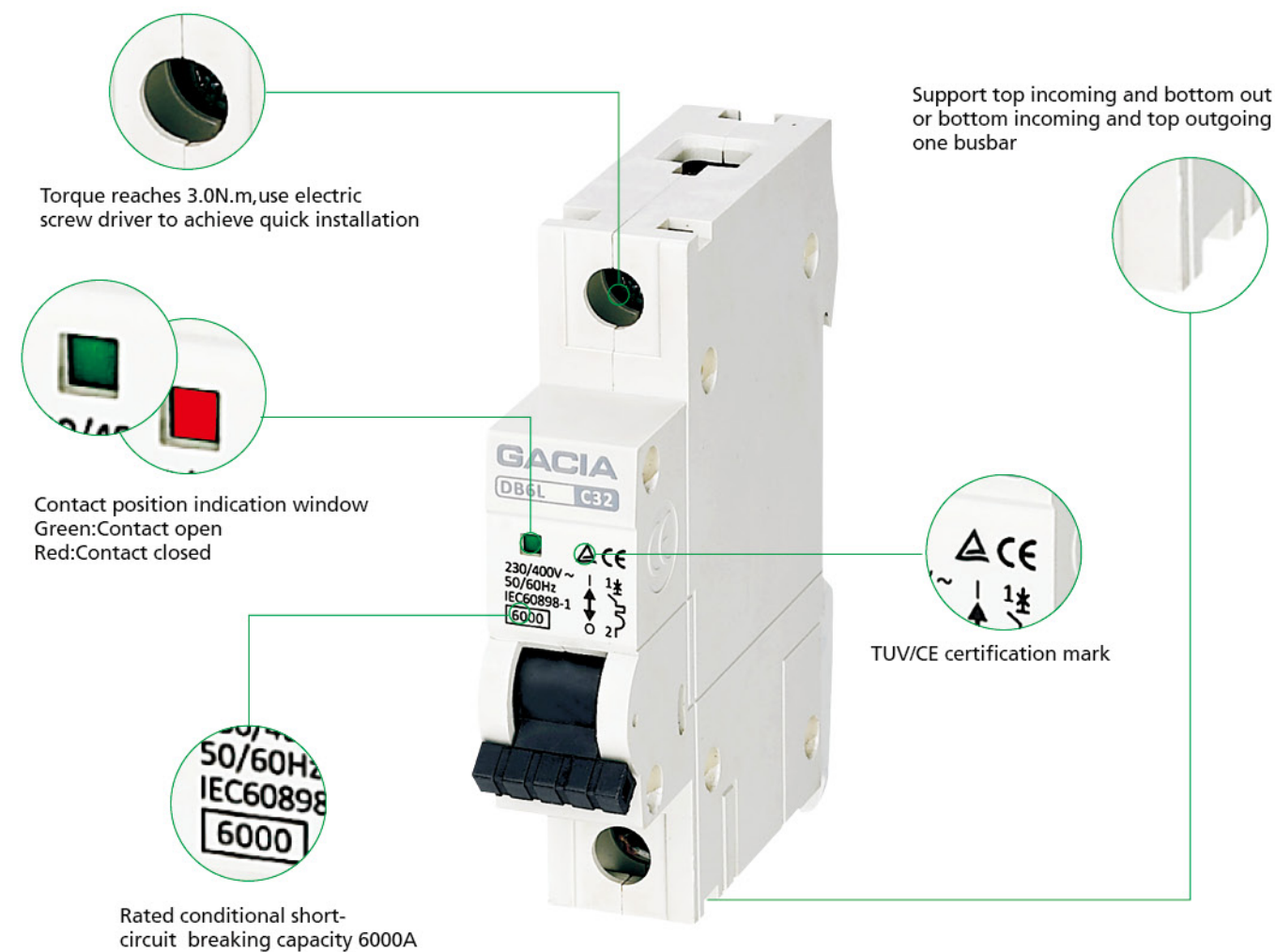
Tech Support Hotline

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Model		DB6L	DB10H	DG6H
				
Poles		1P,1P+N,2P,3P,3P+N,4P	1P,1P+N,2P,3P,3P+N,4P	1P,2P,3P,4P
Certification				
Electrical Specifiction				
Rated current(A)	In	1-63	1-63	63-125
Rated frequency(Hz)		50/60	50/60	50/60
Rated working voltage(V)	Ue	1P:230/400~,2/3/4P:400~	1P:230/400~,2/3/4P:400~	1P:230/400~,2/3/4P:400~
Rated insulated voltage(V)	Ui	500	500	500
Impulse withstand voltage(kV)	Uimp	6	6	6
Rated conditional short-circuit breaking capacity(KA)	Ics	6	10	6
Instantaneous tripping type		B,C,D	B,C,D	(8-12In)
Maximum working voltage	Umax	440	440	440
Dielectric test voltage(kV)		2	2	2
Service life (O-C)	Mechanical Standard value	10000	10000	8500(In=63-100A) 7000(In=125A)
	Electrical Standard value	4000	4000	3000(In=63-100A) 2500(In=125A)
Control And Indication				
Shunt release(SHT)			■	
Undervoltage release(UVT)			■	
Auxiliary contact(AUX)			■	
Alarm contact(ALT)			■	
Contact position indicator			■	
Fault indication			-	
Connection And Installation				
Ambient temperature(with daily average≤35℃)		-5℃ ~+40℃		
Protection degree	ALL sides	IP40		
	Connection terminal	IP20		
Wire(mm²)		1-16	1-16	25-50
busbar(mm²)		25	25	-
Mounting		Cable/Busbar	Cable/Busbar	Cable
Pollution degree		2		
Reference temperature for setting of thermal element(℃)		30		
Storage temperature(℃)		-25℃ ~+70℃		
Tightening torque		3.0		
Connection		Top and Bottom		
Dimensions(mm)	a(1P/2P/3P/4P)	17.5/35/52.5/70	17.5/35/52.5/70	27/54/81/108
 (WxHxL)	b(1P/2P/3P/4P)	87/87/87/87	87/87/87/87	87/87/87/87
	c(1P/2P/3P/4P)	74.6/74.6/74.6/74.6	74.6/74.6/74.6/74.6	76.5/76.5/76.5/76.5
Weight(kg)	1P	0.11	0.11	0.15
	2P	0.22	0.22	0.3
	3P	0.33	0.33	0.45
	4P	0.44	0.44	0.6

■ Default □ Optional - None

VB6H	VB8HC	GB6H
		
1P,1P+N,2P,3P,3P+N,4P	1P,1P+N,2P,3P,3P+N,4P	1P,1P+N,2P,3P,3P+N,4P
		
1-63	1-63	1-63
50/60	50/60	50/60
1P:230/400~,2/3/4P:400~	1P:230/400~,2/3/4P:400~	1P:230/400~,2/3/4P:400~
500	500	500
6	6	6
6	10	4.5
B,C,D	B,C,D	B,C,D
440	440	440
2	2	2
10000	10000	10000
4000	4000	4000
□		
□		
□		
□		
■		
-		
-5℃ ~+40℃		
IP40		
IP20		
1-16	1-16	1-16
25	25	16
Cable/Busba	Cable/Busba	Cable/Busbar
2		
30		
-25℃ ~+70℃		
3.0	3.0	3.0
Top and Bottom		
17.5/35/52.5/70	17.5/35/52.5/70	17.5/35/52.5/70
87/87/87/87	86/86/86/86	86/86/86/86
77.5/77.5/77.5/77.5	78.2/78.2/78.2/78.2	79/79/79/79
0.11	0.11	0.1
0.22	0.22	0.2
0.33	0.33	0.3
0.44	0.44	0.4



Normal Working Conditions and Installation Conditions

- ◆ Ambient Temperature: -5℃ ~+40℃ , it's average over a period of 24 hours does not exceed +35℃ .
- ◆ Height above Sea Level: ≤ 2000m
- ◆ Atmospheric Condition:
When the maximum temperature is +40℃ , the relative humidity of the air is not exceed 50%, and it has higher humidity at lower temperature. The maximum monthly relative humidity is 90%, and the lowest temperature is +20℃ . Additionally, a frost might be present, with the temperature change.
Pollution Degree: 2
- ◆ Installation Conditions:
Installation Category and Type: Installation category is II or III, and the installation type adopts standard steel guide rail installation (TH35-7.5).
The circuit breaker shall be installed vertically, and the upward position of the handle shall be connected to the power.
The installation should be free from obvious impact and vibration, corrosive and explosive gases.

Time-current operating characteristics

Test	Type	Test current	Initial condition	Limits of tripping or non-tripping time	Result to be obtained	Remarks
a	B, C, D	1,13 / _n	Cold ^a	t ≤ 1h(for I _n ≤ 63A) t ≤ 2h(for I _n > 63A)	No tripping	
b	B, C, D	1,45 / _n	Immediately following test a	t < 1h(for I _n ≤ 63A) t < 2h(for I _n > 63A)	Tripping	Current steadily increased within 5 s
c	B, C, D	2,55 / _n	Cold ^a	1s < t < 60s (for I _n ≤ 32A) 1s < t < 120s (for I _n > 32A)	Tripping	
d	B C D	3 / _n 5 / _n 10 / _n	Cold ^a	t ≤ 0,1s	No Tripping	Current established by closing an auxiliary switch
e	B C D	5 / _n 10 / _n 20 / _n ^b	Cold ^a	t < 0,1s	Tripping	Current established by closing an auxiliary switch

NOTE An additional test, intermediate between c and d, is under consideration for circuit-breakers of type D.

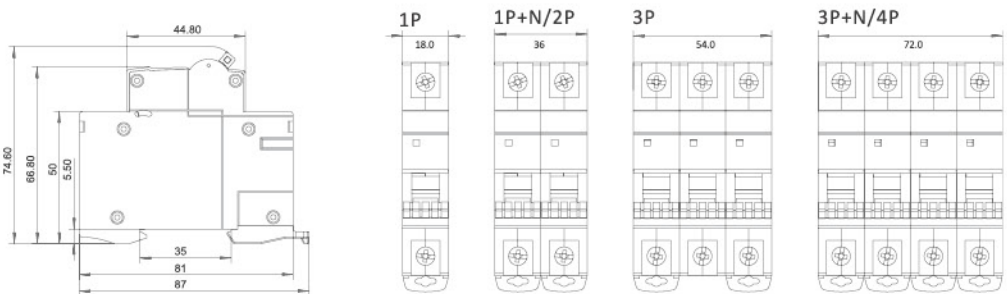
^a The term "cold" means without previous loading, at the reference calibration temperature.

^b 50 /_n for special cases.

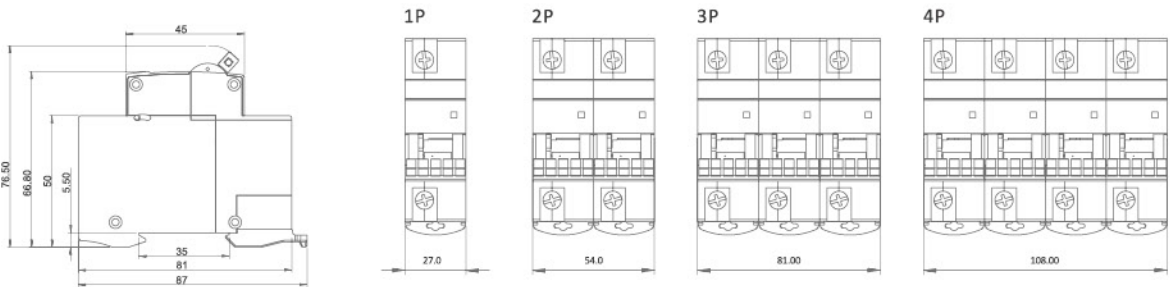
Dimensions

D series

◆ DB6L/DB10H

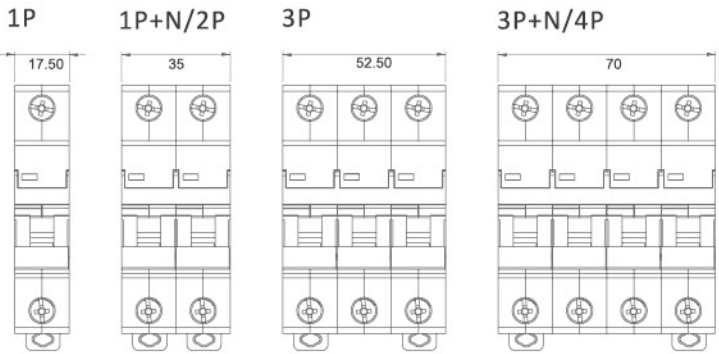
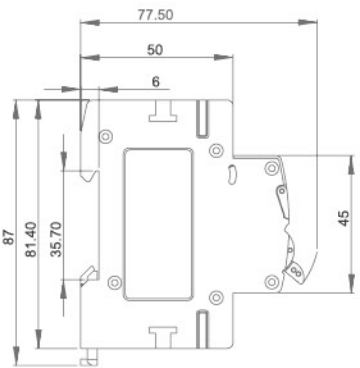


◆ DG6H

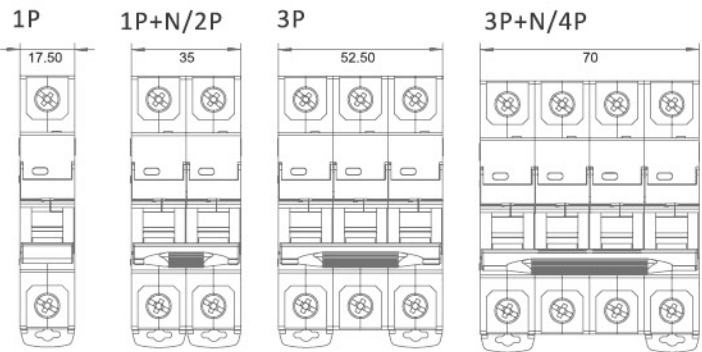
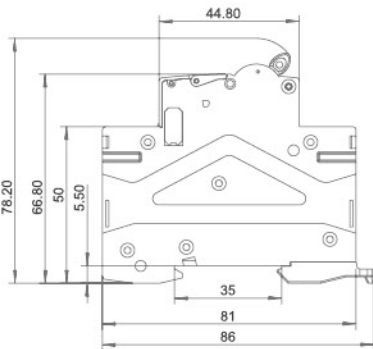


V series

◆ VB6H

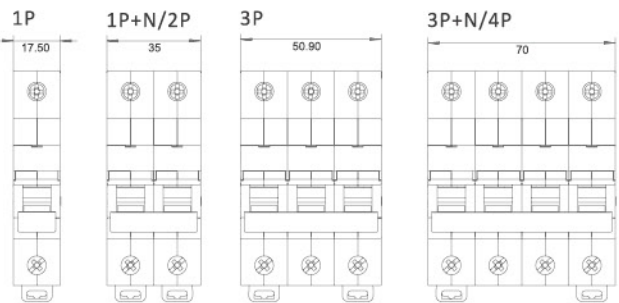
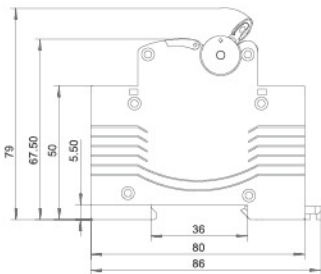








◆ VB8HC



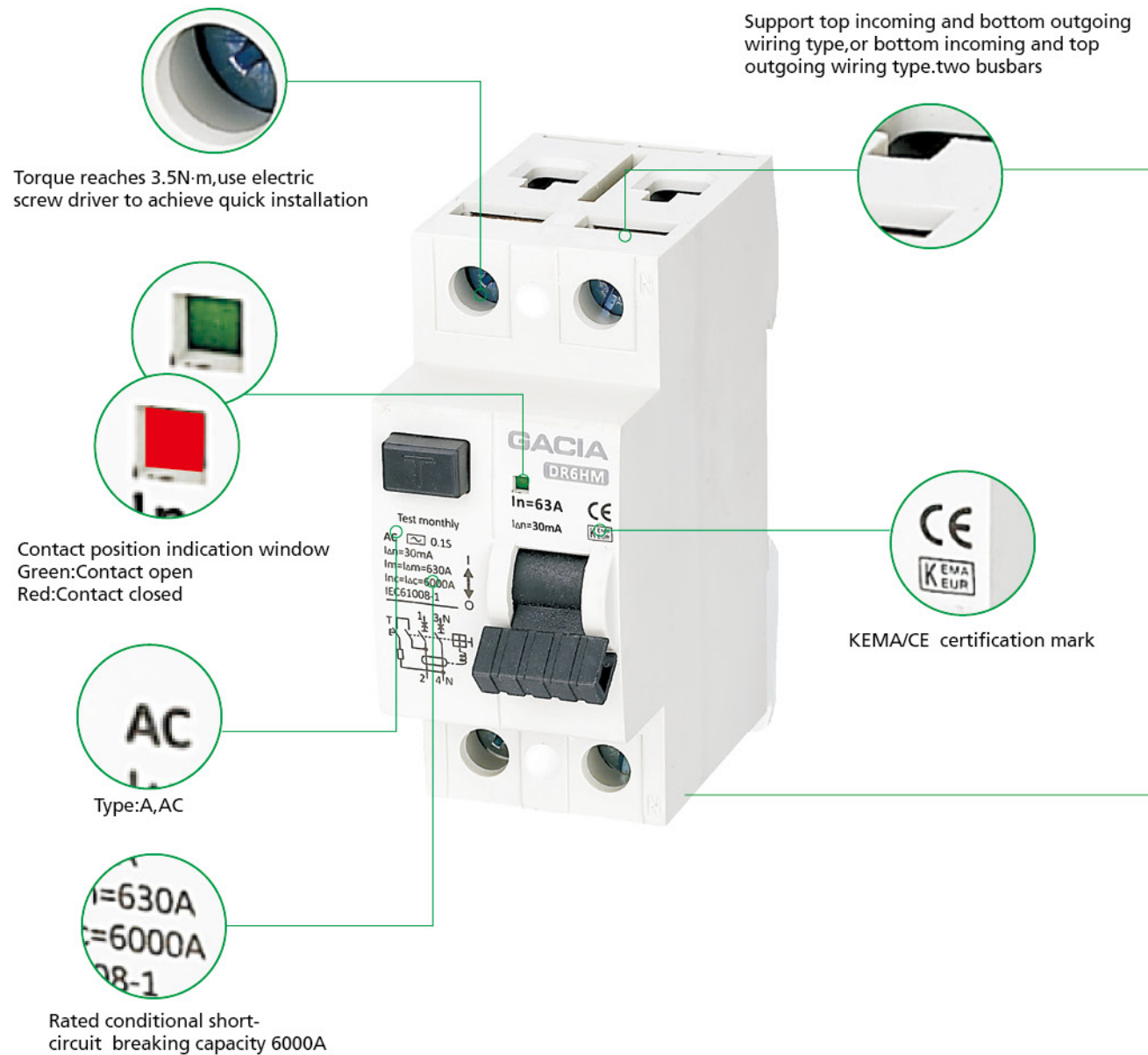
G series

◆ GB6H



Model	DR6HM	DR10HM	VR6HM
			
IEC/EN 61008-1			
Poles	2P,4P	2P,4P	2P,4P
Certification			
Electrical Specification			
Rated current(A)	In	16-63	16-63
Rated working voltage(V)	Ue	2P:230,4P:400	2P:230,4P:400
Rated insulated voltage(V)	Ui	500	500
Impulse withstand voltage(kV)	Uimp	6	6
Rated conditional short-circuit breaking capacity(KA)	Ics	6	10
Rated Residual current(mA)	In	10,30,100,300	10,30,100,300
Rated Residual making and breaking capacity	Im	500(16-50A),630(63A)	1000
Residual current working type		AC,A	AC,AC+S,A,A+S
Residual current Protection type		Electromagnetic	Electromagnetic
Dielectric test voltage(kV)		2.5	
Service life (O-C)	Mechanical	Standard value	4000
	Electrical	Standard value	2000
Control And Indication			
Shunt release(SHT)		-	-
Undervoltage release(UVT)		-	-
Auxiliary contact(AUX)		-	-
Alarm contact(ALT)		-	-
Contact position indicator	<input type="checkbox"/>	-	<input type="checkbox"/>
Fault indication	-	<input type="checkbox"/>	-
Connection And Installation			
Ambient temperature(with daily average≤35℃)		-5℃ ~+40℃	
Protection degree	ALL sides	IP40	
	Connection terminal	IP20	
Wire(mm2)	16	35	16
busbar(mm2)	25	35	25
Mounting		Cable/Busbar	
Reference temperature for setting of thermal element		30	
Pollution degree		2	
Storage temperature (℃)		-25℃ ~+70℃	
Connection	Top and bottom	Top and bottom	Top and bottom
Dimensions(mm) (WxHxL)	a(2P/4P)	35/70	35/70
	b(2P/4P)	87/87	87/87
	c(2P/4P)	76.5/76.5	74.5/74.5
Weight(kg)	2P	0.34	0.35
	4P	0.68	0.7

■ Default □ Optional - None



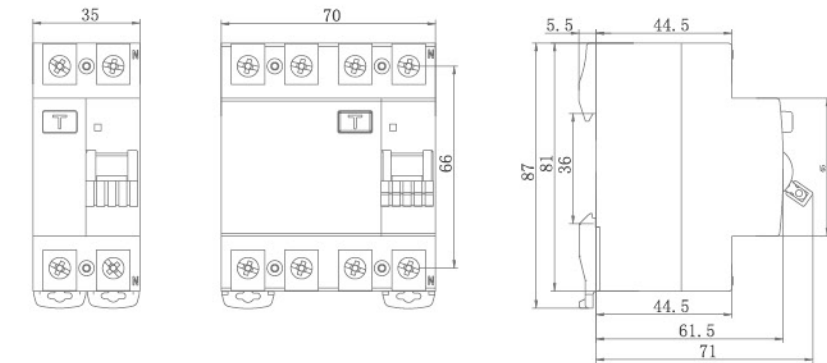
Normal Working Conditions and Installation Conditions

- ◆ Ambient Temperature: -5°C ~ +40°C .
- ◆ Height above Sea Level: ≤ 2000m
- ◆ Installation Category: II, III
- ◆ Pollution Degree: 2
- ◆ The installation type adopts standard steel guide rail installation (TH35-7.5).
- ◆ Installation Conditions: The external magnetic field of the installation site shall not exceed 5 times of the earth's magnetic field in any direction. When over voltage residual current moves, the circuit breaker shall be installed vertically, and the upward position of the handle shall be connected to the power. The installation should be free from obvious impact and vibration.
- ◆ Mode of Connection: Use screws to press the wiring.

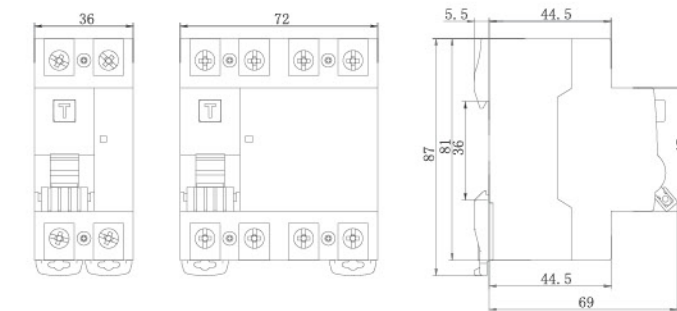
Dimensions

D series

◆ DR6HM



◆ DR10HM



V series

◆ VR6HM

