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# N8 Product Information



## GACIA

# Pacemaker of circuit breakers

### 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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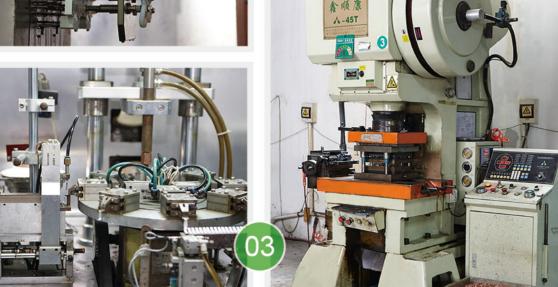
# Core Manufacturing Advantages

GACIA

- 1 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.
- O3 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.



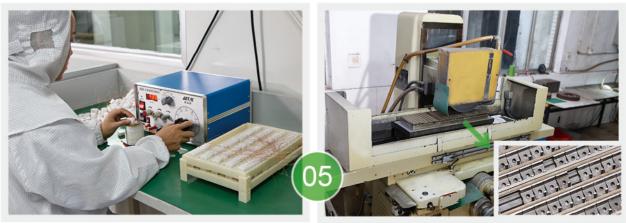




- 1 Intelligent Manufacturing with quality auto monitoring pack and data interconnection pack could avoid artificial errors and improve product reliability.
- Operating Mechanism plant and Tripper plant.

  The most important parts of RCD are produced by GACIA to insure quality warranty.





# **Pacemaker** of circuit breakers GACIA **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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# MCB



Model		UB7N	N8DN	N8DH
IEC/EN 60898-1 IEC/EN 60947-2		GACIA GC GC GC GC GC GC GC GC GC GC GC GC GC	GACIA No. CG CG CG CG CG CG CG CG CG CG CG CG CG C	GACIA GACIA GACIA GACIA GACIA GACIA GACIA GACIA
Poles		1P, 2P, 3P, 4P	1P+N	1P+N
Certification		<b>∞</b> (€ <u>△</u>	@ (£ A)	<b>(((((((((((((</b>
Electrical Specifiction				
Rated current(A)	In	1-63	6-40	6-40
Rated frequency(Hz)		50/60	50/60	50/60
Rated working voltage(V)	Ue	1P:230/400~,2/3/4P:400~	230~	230~
Rated insulated voltage(V)	Ui	500	400	400
Impulse withstand voltage(kV)	Uimp	4	4	4
Rated short-circuit breaking capacity(KA)	lcn	6	6	10
Instantaneous tripping type		B,C,D	B,C,D	B,C,D
Maximum working voltage	Umax	1P:240,2/3/4P:440	240	240
Dielectric test voltage(kV)		2	2	2
Service life Mechanical Standard value		10000	10000	10000
(O-C) Electrical Standard value		6000	6000	6000
Contorl And Indication				
Shunt release(SHT)				
Undervoltage release(UVT)				
Auxiliary contact(AUX)				ž.
Alarm contact(ALT)				
Contact position indicator				
Fault indication				
Connection And Installation				
Ambient temperature(with daily average≤35℃	C)		-5℃ ~+40℃	
ALL Si	des		IP40	
77	ction Terminal		IP20	
Wire(mm²)		1-16	1-10	1-10
busbar (mm²)		16		-
Mounting		On DIN rail	On DIN rail	On DIN rail
Pollution degree				2
Reference temperature for setting of thermal element ( ${\mathbb C}$ )				30
Storage temperature( ${\mathbb C}$ )			-2	25℃ ~+70℃
Tightening torque		3.0	2	2
Connection			Тор	and Bottom
	P/3P/4P)	18/36/54/72		18
(WxHxL) b(1P/2	P/3P/4P)	87/87/87/87		87
c(1P/2	P/3P/4P)	78/78/78/78		77
1P		0.13		0.19
	2P		0.38	
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		0.26		0.30
Weight(kg) 2P 3P		0.26		0.57

■ Default □	Optional	- None
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N8BN	N8BH	N8G		
GACIA Was CC CC CC CC CC CC CC CC CC CC	GACIA  Wills G2	CACIA  MCR. 300  Company of the comp		
1P, 2P, 3P, 4P	1P, 2P, 3P, 4P	1P, 2P, 3P, 4P		
<b>®</b> € 🕾	<b>€</b> € 🕾	<b>◎</b> (€ 🕾		
1-63A	1-63A	63-125		
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		
4	4	4		
6	10	10		
B,C,D	B,C,D	C,D		
1P:240,2/3/4P:440	1P:240,2/3/4P:440	1P:240,2/3/4P:440		
2	2	2		
10000	10000	10000		
6000	6000	2000		
	0			
	_			
	0			
	-5℃ ~+40℃			
	IP40			
	IP20			
1-16	1-16	25-50		
16	16	-		
On DIN rail	On DIN rail	On DIN rail		
	2			
	30			
	-25℃ ~+70℃			
3.0	3.0	3.5		
	Top and Bottom			
18/36/54/72	27/54/81/108			
87/87/87		87/87/87		
78/78/78/78		78/78/78		
0.13		0.18		
	0.36			
0.26				
0.26 0.39 0.52		0.54 0.72		



## **MCB**



Model		N8SG
IEC/EN 60947-3		GACIA CACIA GACIA CACIA CACIA CACIA CACIA CACIA CACIA C
Poles		1P, 2P, 3P, 4P
Certification		(€)
Electrical Specifiction		
Rated current(A)	In	16-125
Rated frequency(Hz)		50/60
Rated working voltage(V)	Ue	1P:230/400~,2/3/4P:400~
Rated insulated voltage(V)	Ui	500
Impulse withstand voltage(kV)	Uimp	4
Rated short-time withstand current(KA)	lcw	1.5
Instantaneous tripping type		
Maximum working voltage	Umax	1P:240,2/3/4P:440
Dielectric test voltage(kV)		2.5
Service life Mechanical Standard va	lue	8500
(O-C) Electrical Standard va	ue	1500
Contorl 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 averag	e≤35℃)	-5℃ ~+40℃
Danka skina da sana	ALL Sides	IP40
Protection degree	Connection Terminal	IP20
Wire(mm²)		1-50
busbar (mm²)		
Mounting		On DIN rail
Pollution degree		3
Reference temperature for setting of thermal element ( $\ensuremath{\mathbb{C}}$ )		30
Storage temperature(℃)		-25℃ ~+70℃
Tightening torque		3.5
Connection		Top and Bottom
1 0 404	a(1P/2P/3P/4P)	18/36/54/72
(WxHxL) b(1P/2P/3P/4P)		87/87/87
	c(1P/2P/3P/4P)	78/78/78
	1P	0.08
Weight(kg)	2P	0.16
weight(kg)	3P	0.24
	4P	0.32

<sup>■</sup> Default □ Optional - None

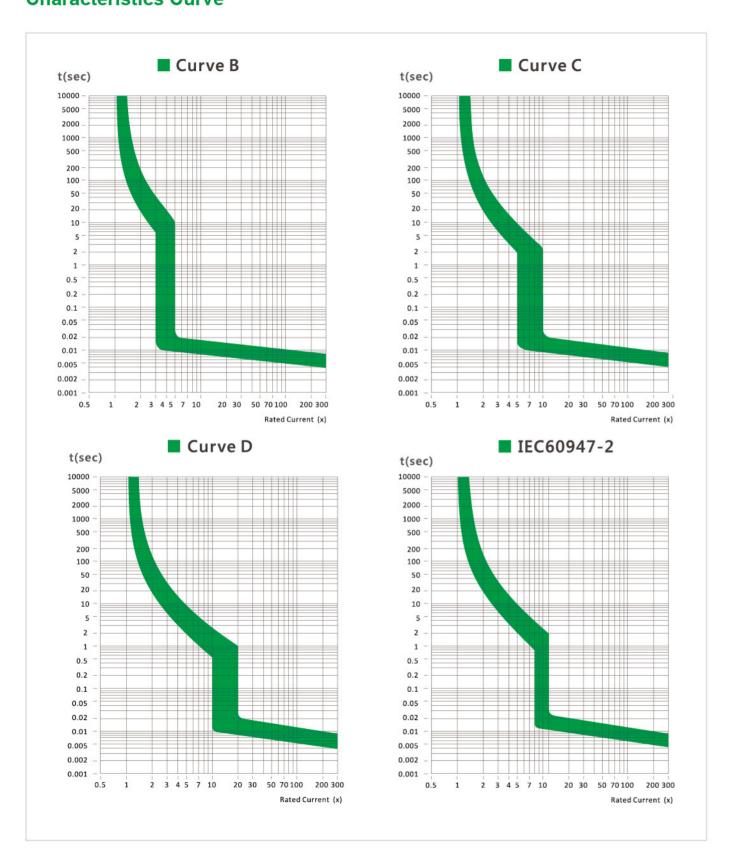


### **Normal Working Conditions and Installation Conditions:**

- ♦ Ambient Temperature: -5°C ~+40°C , it's average over a period of 24 hours does not exceed +35°C .
- ◆ 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: UB7N,N8DN/H,N8BN/H,N8G:2;N8SG:3.
- 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.



### **Characteristics Curve**



# **MCB**

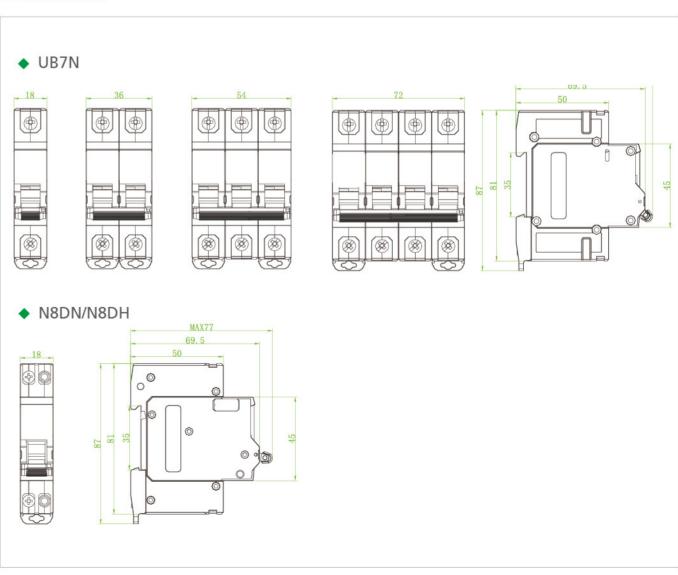


### **Time-current operating characteristics**

Test	Туре	Test current	Inital condition	Limits of tripping or non-tripping time	Result to be obtained	Remarks
a	B, C, D	1.13I <sub>n</sub>	Cold <sup>a</sup>	$t \le 1h(\text{for } I_n \le 63A)$ $t \le 2h(\text{for } I_n > 63A)$	No tripping	
b	B, C, D	1.45I <sub>n</sub>	Immediately following test	$t < 1h(for I_n \le 63A)$ $t < 2h(for I_n > 63A)$	Tripping	Current steadily increased within 5s
c	B, C, D	2.55I <sub>n</sub>	Cold <sup>a</sup>	1s < t < 60s (for $In \le 32A$ ) 1s < t < 120s (for $In > 32A$ )	Tripping	
d	B C D	3I <sub>n</sub> 5I <sub>n</sub> 10I <sub>n</sub>	Cold <sup>a</sup>	t ≤ 0.1s	Tripping	Current established by closing an auxiliary switch
e	B C D	5I <sub>n</sub> 10I <sub>n</sub> 20I <sub>n</sub> <sup>b</sup>	Cold <sup>a</sup>	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.

### **Dimensions**

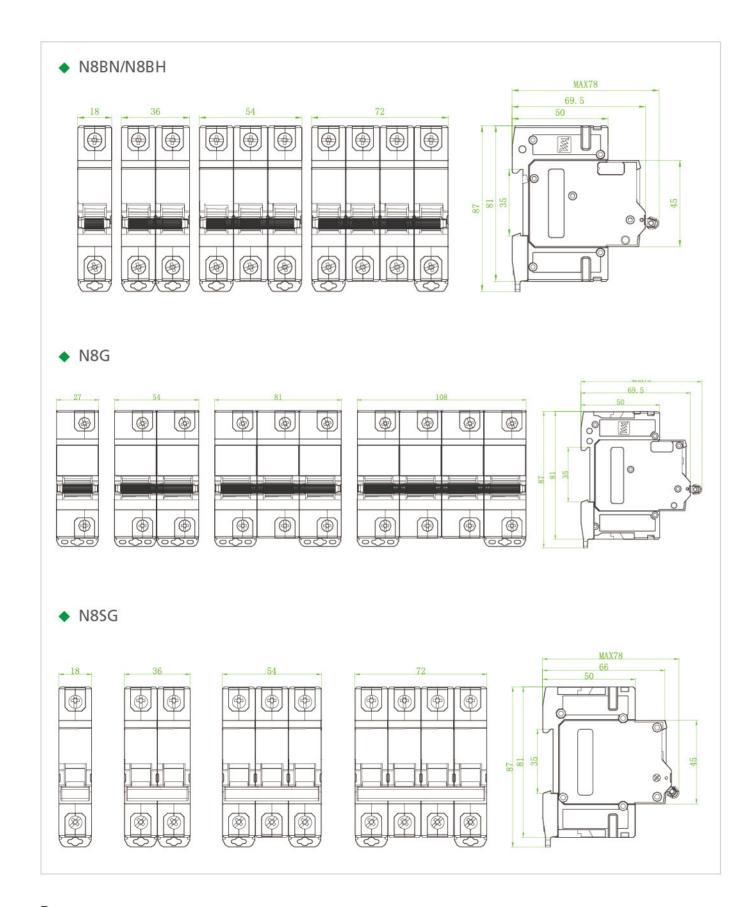


<sup>&</sup>lt;sup>a</sup> The term "cold" means without previous loading, at the reference calibration temperature.

<sup>&</sup>lt;sup>b</sup> 50 /n for special cases.







Model		N8GNLE	N8GLE
IEC/EN60947-2 GB/T 14048.2			
Poles		1P+N, 2P, 3P, 3P+N, 4P	1P+N, 2P, 3P, 3P+N, 4P
Certification	Ø	10 800 800 80	€
Electrical Specifiction			
Rated current(A)	In	1P+N/2P:63-125A,3P/3P+N/4P:63-100A	1P+N/2P:63-125A,3P/3P+N/4P:63-100A
Rated frequency(Hz)		50/60	50/60
Rated working voltage(V)	Ue	1P+N/2P:230~,3P/3P+N/4P:400~	1P+N/2P:230~,3P/3P+N/4P:400~
Rated insulated voltage(V)	Ui	500	500
Impulse withstand voltage(kV)	Uimp	6	6
Rated conditional short-circuit current	lcs	6	10
Rated Residual current(mA)	I△n	30,100,300	30,100,300
Thermo-magnetic release characteristic		C,D	C,D
Residual current protection type		Electr	onic
Residual current working type		AC	'A
Rated residual making and breaking capacity	lm/ △ m	101	n
Dielectric test voltage(kV)		2.5	5
Service life Mechanical Standard value		100	00
(O-C) Electrical Standard value		500	00
Contorl And Indication			
Shunt release(SHT)			
Undervoltage release(UVT)		E-	
Auxiliary contact(AUX)			
Alarm contact(ALT)		·-	
Contact position indicator			ı
Fault indication			l
Connection And Installation			
Ambient temperature(with daily average≤35	℃)	-5℃ ~+	-40℃
Protection degree	ALL Sides	IP4	0
	Connection Terminal	IP2	
Wire(mm²)		50	
busbar(mm²)		50	
Mounting		Cable/B	
Pollution degree		3	
Reference temperature for setting of therma	l element(C)	30	
Storage temperature(°C )		-25℃ ~	
Tightening torque		3.5	
Connection	-/4D-NI)	Tol	
Dimensions(mm) (WxHxL)	a(1P+N)	72	
	b(1P+N)	11/	
Mainht/km\	c(1P+N)	77	
Weight(kg)	1P+N	1	

■ Default □ Optional - None





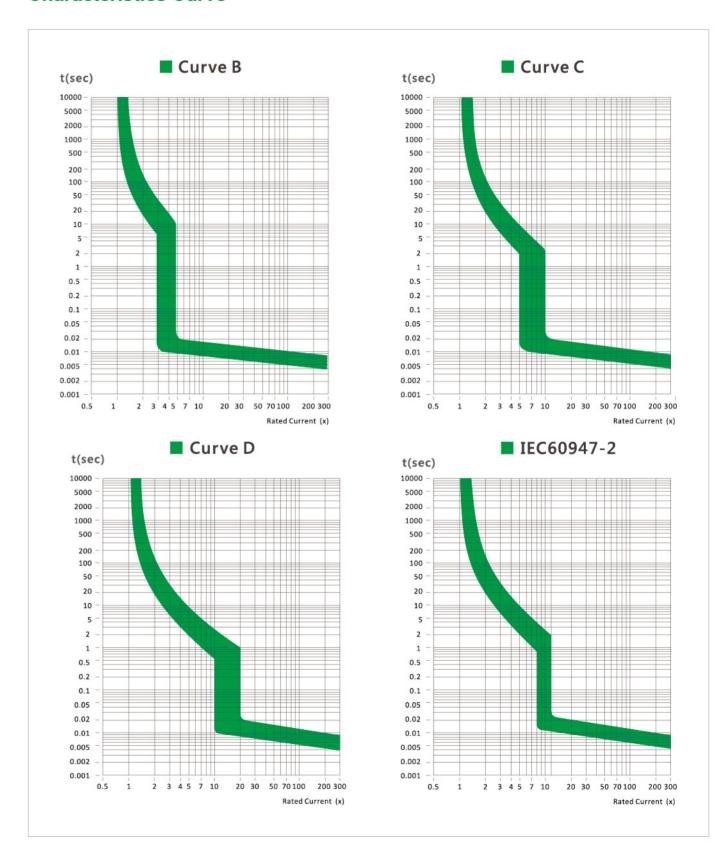
# Torque reaches 3.5N-m,use electric screw driver to achieve quick installation GACIA CE certification mark CE certification mark

#### Rated conditional shortcircuit current 10000A

### **Normal Working Conditions and Installation Conditions:**

- ◆ Ambient Temperature: -5℃ ~+40℃
- ◆ Height above Sea Level: ≤ 2000m.
- ♦ Installation Category: III
- Pollution Degree: 3
- ♦ 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.

### **Characteristics Curve**







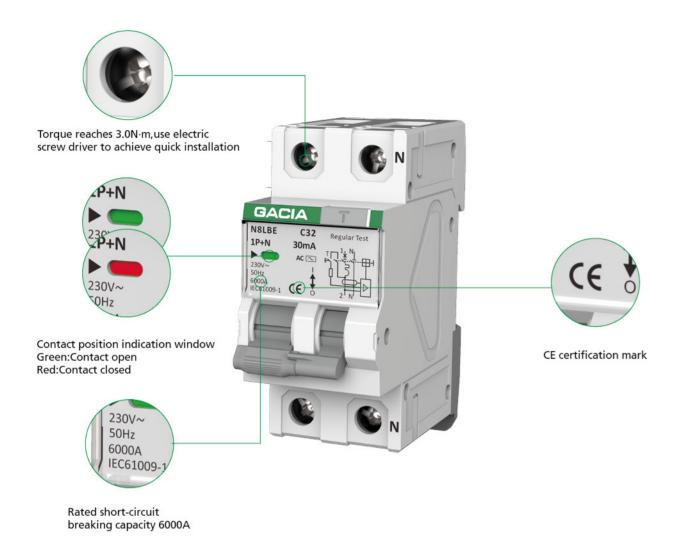
# ◆ N8GNLE/N8GLE 63-125A **®** (A) (0) 1

Poles			
Poles	Model		N8LBE
Certification	IEC/EN 61009-1		MACIA  MAMA CI  MAMA
Rated current(A)	Poles		1P+N
Rated current(A)	Certification	2	
Rated frequency(Hz)	Electrical Specifiction		
Rated working voltage(V)         Ue         230-           Rated insulated voltage(V)         Ui         400           Rated insulated voltage(kV)         Uimp         4           Rated conditional short-circuit current         Ics         6(50, 63=4.5)           Rated Residual current(mA)         I △ n         30,100,300           Thermo-magnetic release characteristic         B,C,D           Residual current protection type         Electronic           Residual current working type         AC, A           Rated residual making and breaking capacity         Im/ △ m           Dielectric test voltage(kV)         2.5           Service life         Mechanical         Standard value           (O-C)         Electrical         Standard value         10000           Contor! And Indication         -         -           Shunt release(SHT)         -         -           Undervoltage release(UT)         -         -           Alarm contact(ALT)         -         -           Alarm contact(ALT)         -         -           Connection And Installation         -         -           Ambient temperature(with daily averages/35°C)         -5°C +40°C           Protection degree         ALL Sides         IPA0	Rated current(A)	ln	6-63A
Rated insulated voltage(V)         Ui         400           Rated impulse withstand voltage(kV)         Uimp         4           Rated Conditional short-circuit current         Ics         6(50. 63-4.5)           Rated Residual current(mA)         I △n         30,100,300           Thermo-magnetic release characteristic         B, C,D           Residual current protection type         AC. A           Residual current working type         AC. A           Rated residual making and breaking capacity         Im/ △m           Dielectric test voltage(kV)         2.5           Service life         Mechanical           Standard value         10000           (0-C)         Electrical         Standard value           Control And Indication         -           Shunt release(SHT)         -           Undervoltage release(UVT)         -           Auxiliary contact(AUX)         -           Alarm contact(ALT)         -           Contact position indicator         -           Foundation and Installation         -           Ambient temperature(with daily average(35°C))         5°C +440°C           Wire(mm²)         6           busbar(mm²)         16           Mounting         Cable/Busbar     <	Rated frequency(Hz)		50/60
Rated impulse withstand voltage(kV)   Uimp	Rated working voltage(V)	Ue	230~
Rated conditional short-circuit current Rated Residual current(mA) Rated Residual current(mA) Rated Residual current(mA) Rated Residual current(mA) Residual current protection type Residual current protection type Residual current working type Rated residual making and breaking capacity Residual current working type Rated residual making and breaking capacity Residual current working type Rated residual making and breaking capacity Residual current working type Rated residual making and breaking capacity Rated Rated Residual making and breaking capacity Rated Rated Residual making and breaking capacity Rated	Rated insulated voltage(V)	Ui	400
Rated Residual current(mA) I △ n 30,100,300 Thermo-magnetic release characteristic 8,C D Residual current working type AC. A Rated residual making and breaking capacity Im/ △ m 500A Dielectric test voltage(kV) 2.5 Service life Mechanical Standard value 10000 (O-C) Electrical Standard value 4000  Contorl And Indication Shunt release(SHT) Undervoltage release(UVT) Auxiliary contact(AUX) Alarm contact(AUX) Alarm contact(AUX) Fault indication Connection And Installation Ambient temperature(with daily average≤35℃) -5℃ +40℃  Protection degree ALL Sides IP40 Wire(mm²) 6 busbar(mm²) 16 Mounting Cable/Busbar Pollution degree 2 Reference temperature for setting of thermal element(℃) 30 Storage temperature(ℂ) -25℃ +77℃ Tightening torque 3.0 Connection Top Dimensions(mm) (WxHxL)  buffer (MxHxL)  a(1P+N)  buffer (MxHxL)  buffer (MxHxL)  contaction in addition  30,100,300 30 Storage temperature(ℂ)  Top Dimensions(mm) (WxHxL)  buffer (MxHxL)  buffer (MxHxL)  contaction in addition  30,100,300 30 Storage temperature for setting of thermal element(ℂ) -25℃ +77℃ Tightening torque  Connection  Dimensions(mm)  (WxHxL)  buffer (MxHxL)  buffer (MxHxL)  contaction  con	Rated impulse withstand voltage(kV)	Uimp	4
Rated Residual current(mA) I △ n 30,100,300 Thermo-magnetic release characteristic B,CD Residual current vortection type Electronic Residual current working type AC. A Rated residual making and breaking capacity Im/ △ m 500A Dielectric test voltage(k/) 2.5 Service life Mechanical Standard value 10000 (O-C) Electrical Standard value 4000 Control And Indication Shunt release(SHT) Undervoltage release(UVT) Auxiliary contact(AUX) Alairm contact(ALT) Contact position indicator Fault indication Ambient temperature(with daily average≤35℃) - 5℃ ~+40℃ Protection degree ALL Sides	Rated conditional short-circuit current	lcs	6(50、63=4.5)
Residual current protection type Residual current working type Rated residual making and breaking capacity Rated residual making and breaking capacity Residual current working type Rated residual making and breaking capacity Dielectric test voltage(kV) Service life Mechanical Standard value Rotord And Indication Stunt release(SHT)  Undervoltage release(UVT)	Rated Residual current(mA)	l△n	30,100,300
Residual current protection type Residual current working type Rated residual making and breaking capacity Rated residual making and breaking capacity Residual current working type Rated residual making and breaking capacity Dielectric test voltage(kV) Service life Mechanical Standard value Romotor And Indication Shunt release(SHT)  Undervoltage release(UVT)	Thermo-magnetic release characteristic		B,C,D
Residual current working type Rated residual making and breaking capacity Im/ △ m S00A Dielectric test voltage(kV) Service life Mechanical Standard value (O-C) Electrical Standard value Undervoltage release(UVT) Auxiliary contact(AUX) Indervoltage release(UVT)	Residual current protection type		
Rated residual making and breaking capacity   Im/ △ m   500A   Dielectric test voltage(kV)   2.5   Service life   Mechanical   Standard value   10000   (O-C)   Electrical   Standard value   4000    Contorl And Indication   -  Shunt release(SHT)   - Undervoltage release(UVT)   -  Auxiliary contact(AUX)   -  Alarm contact(AUX)   -  Alarm contact(ALT)   -  Contact position indicator   -  Fault indication   -  Connection And Installation   -  Connection And Installation   -  Ambient temperature(with daily average≤35℃)   -5℃ → +40℃    Protection degree   ALL Sides   IP40    Connection Terminal   IP20    Wire(mm²)   6    Busbar(mm²)   16    Mounting   Cable/Busbar    Pollution degree   2    Reference temperature for setting of thermal element(ℂ)   30    Storage temperature(ℂ)   -25℃ ~+70℃    Tightening torque   3.0    Connection   Top    Dimensions(mm)    (WxHxL)   b(1P+N)   61    b(1P+N)   61    c(1P+N)   61    c(1P+N)   61    c(1P+N)   75			AC. A
Dielectric test voltage(kV)   Service life   Mechanical   Standard value   10000		/ Im/ △ m	500A
Service life			2.5
Conterl 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 IP40   Wire(mm³) 6   busbar(mm²) 6   Mounting Cable/Busbar   Pollution degree 2   Reference temperature for setting of thermal element(ℂ) 30   Storage temperature(ℂ) -25℃ ~+70℃   Tightening torque 3.0   Connection Top   Dimensions(mm) (WXHXL) 6   businessions(mm) (WXHXL)   businessions(mm) (WXHXL) <td>· · · · · · · · · · · · · · · · · · ·</td> <td></td> <td>10000</td>	· · · · · · · · · · · · · · · · · · ·		10000
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℃)  Protection degree  ALL Sides  Connection Terminal  Wire(mm²)  busbar(mm²)  All Sides  Connection Terminal  Mounting  Cable/Busbar  Pollution degree  Reference temperature for setting of thermal element(℃)  Storage temperature(℃)  Tightening torque  Connection  Dimensions(mm)  (WXHXL)  All PN)  a(1P+N)	(O-C) Electrical Standard value		4000
Undervoltage release(UVT)  Auxiliary contact(AUX)  Alarm contact(ALT)  Contact position indicator  Fault indication  Connection And Installation  Ambient temperature(with daily average≤35℃)  Protection degree  ALL Sides Connection Terminal  Wire(mm²)  6 busbar(mm²)  16  Mounting  Cable/Busbar  Pollution degree  2 Reference temperature for setting of thermal element(♡)  Storage temperature(♡)  Tightening torque  Connection  Dimensions(mm) (WXHXL)  Dimensions(mm) (WXHXL)  ac(1P+N)	Contorl And Indication		
Auxiliary contact(AUX)  Alarm contact(ALT)  Contact position indicator  Fault indication  Connection And Installation  Ambient temperature(with daily average≤35°C)  Protection degree  ALL Sides Connection Terminal  Wire(mm²)  6  busbar(mm²)  16  Mounting  Cable/Busbar  Pollution degree  Reference temperature for setting of thermal element(°C)  Tightening torque  Connection  Dimensions(mm) (WXHXL)  ALL Sides (P40  Connection Terminal  IP20  Connection Terminal  Cable/Busbar  2  Reference temperature for setting of thermal element(°C)  30  Storage temperature(°C)  Tightening torque  Connection  Top  Dimensions(mm) (WXHXL)  b(1P+N) b(1P+N) 81  c(1P+N) 75	Shunt release(SHT)		
Alarm contact(ALT)  Contact position indicator  Fault indication  Connection And Installation  Ambient temperature(with daily average≤35℃)  Protection degree  ALL Sides Connection Terminal  Wire(mm²)  busbar(mm²)  fo  busbar(mm²)  Mounting  Pollution degree  Reference temperature for setting of thermal element(℃)  Storage temperature(℃)  Tightening torque  Connection  Dimensions(mm) (WxHxL)  ALL Sides IP40  Connection Terminal IP20  Connection Terminal IP20  Cable/Busbar  Cable/Busbar  2  Reference temperature for setting of thermal element(℃)  30  Storage temperature(℃)  Top  Dimensions(mm) (WxHxL)  A(IP+N)  B1  75	Undervoltage release(UVT)		
Contact position indicator Fault indication  Connection And Installation  Ambient temperature(with daily average≤35℃)  Protection degree  ALL Sides Connection Terminal IP20  Wire(mm²)  6 busbar(mm²)  16  Mounting  Pollution degree  Reference temperature for setting of thermal element(℃)  Storage temperature(ℂ)  Tightening torque  Connection  Dimensions(mm) ((WXHXL)  ALL Sides IP40  Connection Terminal IP20  Cable/Busbar  2  Reference temperature for setting of thermal element(ℂ)  30  Storage temperature(ℂ)  Top  Dimensions(mm) ((WXHXL)  A(IP+N) B1 C(IP+N) B1 T5	Auxiliary contact(AUX)		
Fault indication -  Connection And Installation  Ambient temperature(with daily average≤35℃) -5℃ ~+40℃  Protection degree ALL Sides IP40  Wire(mm²) 6  busbar(mm²) 16  Mounting Cable/Busbar  Pollution degree 2  Reference temperature for setting of thermal element(℃) 30  Storage temperature(℃) -25℃ ~+70℃  Tightening torque 3.0  Connection Top  Dimensions(mm) (WXHXL) 4(1P+N) 36  (1P+N) 36  (1P+N) 81  ((1P+N) 75	Alarm contact(ALT)		
Fault indication -  Connection And Installation  Ambient temperature(with daily average≤35℃) -5℃ ~+40℃  Protection degree ALL Sides IP40  Wire(mm²) 6  busbar(mm²) 16  Mounting Cable/Busbar  Pollution degree 2  Reference temperature for setting of thermal element(℃) 30  Storage temperature(℃) -25℃ ~+70℃  Tightening torque 3.0  Connection Top  Dimensions(mm) (WXHXL) 4(1P+N) 36  (1P+N) 36  (1P+N) 81  ((1P+N) 75	Contact position indicator		
Ambient temperature(with daily average≤35℃)  Protection degree  ALL Sides Connection Terminal IP20  Wire(mm²) 6  busbar(mm³) 16  Mounting Cable/Busbar  Pollution degree  Reference temperature for setting of thermal element(℃) 30  Storage temperature(℃)  Tightening torque Connection  Dimensions(mm) (WxHxL)  a(1P+N) b(1P+N) c(1P+N)  Top  Top  Top			(a)
Protection degree  ALL Sides Connection Terminal  Wire(mm²)  6 busbar(mm²)  16 Mounting Cable/Busbar  Pollution degree  Reference temperature for setting of thermal element(°C)  Storage temperature(°C)  Tightening torque  Connection  Dimensions(mm) (WxHxL)  a(1P+N) b(1P+N) c(1P+N) 75	Connection And Installation		
Wire(mm²)  Wire(mm²)  busbar(mm²)  Mounting  Pollution degree  Reference temperature for setting of thermal element(°C)  Storage temperature(°C)  Tightening torque  Connection  Dimensions(mm) (WxHxL)  Augustian degree  Augustian degree  2  Reference temperature(°C)  30  -25°C ~+70°C  3.0  Top  Dimensions(mm) (WxHxL)  b(1P+N)  a(1P+N)  75	Ambient temperature(with daily average≤35	C)	-5℃ ~+40℃
Wire(mm²) 6 busbar(mm²) 16 Mounting Cable/Busbar Pollution degree Reference temperature for setting of thermal element(°C) 30 Storage temperature(°C) Tightening torque Connection Dimensions(mm) (WxHxL)  a(1P+N) b(1P+N) c(1P+N) 75		ALL Sides	IP40
busbar(mm²)         16           Mounting         Cable/Busbar           Pollution degree         2           Reference temperature for setting of thermal element(℃)         30           Storage temperature(℃)         -25℃ ~+70℃           Tightening torque         3.0           Connection         Top           Dimensions(mm)         36           (WxHxL)         81           c(1P+N)         75	Protection degree	Connection Terminal	IP20
Mounting  Pollution degree  Reference temperature for setting of thermal element(°C)  Storage temperature(°C)  Tightening torque  Connection  Dimensions(mm) (WXHXL)  a(1P+N) b(1P+N) c(1P+N) 75	Wire(mm²)		6
Pollution degree         2           Reference temperature for setting of thermal element(℃)         30           Storage temperature(℃)         -25℃ ~+70℃           Tightening torque         3.0           Connection         Top           Dimensions(mm)         36           (WxHxL)         81           c(1P+N)         75	busbar(mm²)		16
Reference temperature for setting of thermal element( $^{\circ}$ C) 30  Storage temperature( $^{\circ}$ C) -25 $^{\circ}$ C ~+70 $^{\circ}$ C  Tightening torque 3.0  Connection Top  Dimensions(mm) (WxHxL) $\frac{a(1P+N)}{b(1P+N)}$ 36 $\frac{b(1P+N)}{c(1P+N)}$ 81  75	Mounting		Cable/Busbar
Storage temperature(°C)         -25°C ~+70°C           Tightening torque         3.0           Connection         Top           Dimensions(mm) (WxHxL)         a(1P+N) b(1P+N) c(1P+N)         36           b(1P+N)         81           c(1P+N)         75	Pollution degree		2
Storage temperature(°C)         -25°C ~+70°C           Tightening torque         3.0           Connection         Top           Dimensions(mm) (WxHxL)         a(1P+N) b(1P+N) c(1P+N)         36           b(1P+N)         81           c(1P+N)         75	Reference temperature for setting of therma	l element(℃)	30
Connection         Top           Dimensions(mm) (WxHxL)         a(1P+N) 36           b(1P+N) 81         c(1P+N) 75	Storage temperature ( ${\mathbb C}$ )		-25℃ ~+70℃
Dimensions(mm)     a(1P+N)     36       (WxHxL)     b(1P+N)     81       c(1P+N)     75	Tightening torque		3.0
Dimensions(mm)     a(1P+N)     36       (WxHxL)     b(1P+N)     81       c(1P+N)     75	Connection		Тор
c(1P+N) 75		a(1P+N)	36
	(WxHxL)	b(1P+N)	81
Weight(kg) 1P+N 0.20		c(1P+N)	75
	Weight(kg)	1P+N	0.20

■ Default □ Optional - None







### **Normal Working Conditions and Installation Conditions:**

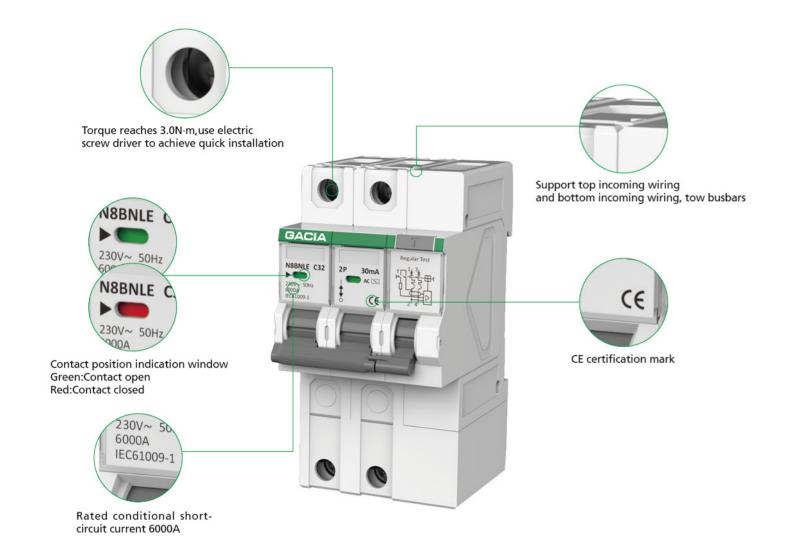
- ♦ Ambient Temperature: -5°C ~+40°C
- ◆ Height above Sea Level: ≤ 2000m.
- Installation Category: II, III
- Pollution Degree: 2
- ◆ The installation type adopts standard steel guide rail installation (TH35-7.5).
- ◆ Installation Conditions: The external magnetic field of the installation site shall 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.

Model		N8BNLE	N8BLE
GB/T 16917.1 IEC/EN 61009-1		CACA CACA	
Poles		1P+N, 2P, 3P, 3P+N, 4P	1P+N, 2P, 3P, 3P+N, 4P
Certification		@ (E	<b>∞</b> (€
Electrical Specifiction			
Rated current(A)	In	6-63A	6-63A
Rated frequency(Hz)		50/60	50/60
Rated working voltage(V)	Ue	1P+N/2P:230~,3/3P+N/4P:400~	1P+N/2P:230~,3/3P+N/4P:400~
Rated insulated voltage(V)	Ui	400	400
Rated impulse withstand voltage(kV)	Uimp	4	4
Rated conditional short-circuit current	lcs	6	10
Rated Residual current(mA)	I△n	30,50,100,300,500	30,50,100,300,500
Thermo-magnetic release characteristic		B,C,D	B,C,D
Residual current protection type		Electr	onic
Residual current working type		AC	2//
Rated residual making and breaking capacity	lm/ △ m	2000	DA .
Dielectric test voltage(kV)		2.5	5
Service life Mechanical Standard value		100	00
(O-C) Electrical Standard value		400	00
Contorl And Indication			
Shunt release(SHT)		-	
Undervoltage release(UVT)			
Auxiliary contact(AUX)		-	
Alarm contact(ALT)		-	1
Contact position indicator			
Fault indication			ı
Connection And Installation	j		
Ambient temperature(with daily average $\leq$ 35°C)		-5℃ ~4	-40℃
Protection degree	LL Sides	IP4	0
C C	onnection Terminal	IP2	0
Wire(mm²)		16	5
busbar(mm²)		16	
Mounting		Cable/B	usbar
Pollution degree		2	
Reference temperature for setting of thermal ele	ment(℃)	30	
Storage temperature ( ${\mathbb C}$ )		-25℃ ~	+70℃
Tightening torque		3.0	)
Connection		To	p
Dimensions(mm)	(1P+N)	54	54
Dimensions(mm) (WxHxL)	(1P+N)	77.5	77.5
C	(1P+N)	105.5	105.5
Weight(kg) 1			323

■ 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.

### **Characteristics Curve**

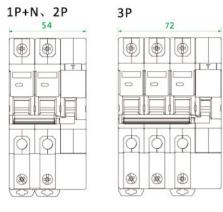


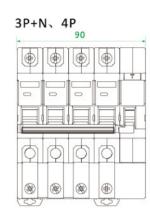


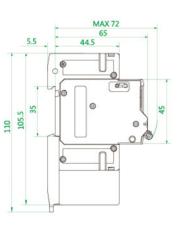
# **RCCB**



### ♦ N8BNLE/N8BLE







Model		N8LGM	
IEC/EN 61008-1		GACIA  WINGS 22  WINGS 25  WINGS 25	
Poles		2P, 4P	
Certification		<b>₾ (€</b>	
Electrical Specifiction			
Rated current(A)	In	16-100	
Rated working voltage(V)	Ue	2P:230,4P:400	
Rated insulated voltage(V)	Ui	500	
Impulse withstand voltage(kV)	Uimp	6	
Rated conditional short-circuit current	Inc	10	
Rated Residual current(mA)	I △ n	10,30,100,300	
Rated Residual making and breaking capa	city I △ m	1000	
Residual current working type		AC,A	
Residual current Protection type		Electromagnetic	
Dielectric test voltage(kV)		2.5	
Service life Mechanical Standard	value	4000	
(O-C) Electrical Standard value		2000	
Contorl And Indication			
Shunt release(SHT)			
Undervoltage release(UVT)	*	<u>.</u>	
Auxiliary contact(AUX)		-	
Alarm contact(ALT)	-		
Contact position indicator			
Fault indication			
Connection And Installation			
Ambient temperature(with daily average≤	35℃)	-5℃ ~+40℃	
	ALL Sides	IP40	
Protection degree	Connection Terminal	IP20	
Wire(mm²)		35	
busbar(mm²)		35	
Mounting		Cable/Busbar	
Reference temperature for setting of thermal element		30	
Pollution degree		2	
Storage temperature (°C )		-25℃ ~+70℃	
Connection		Top and bottom	
		36/72	
(WxHxI)	b(1P+N)	77.5/77.5	
	c(1P+N)	81/81	
	2P	0.213	
Weight(kg)	4P	0.34	
		V.51	

■ Default □ Optional - None



# **RCCB**





### **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.

