

# CERTIFICATE

Issued to:

Applicant:

**GACIA ELECTRICAL APPLIANCE CO., LTD.**  
No.1 Nanxijiang Road, Daqiao Industrial Zone,  
Beibaixiang Town, Yueqing  
325603 Zhejiang, China

Licensee:

**GACIA ELECTRICAL APPLIANCE CO., LTD.**  
No.1 Nanxijiang Road, Daqiao Industrial Zone,  
Beibaixiang Town, Yueqing  
325603 Zhejiang, China

Product : Residual current operated circuit-breakers without integral overcurrent protection (RCCB)  
Trade name(s) : GACIA  
Type(s)/model(s) : N8LGM

The product and any acceptable variation thereto is specified in the Annex to this certificate and the documents therein referred to.

DEKRA hereby declares that the above-mentioned product has been certified on the basis of:

- a type test according to the standard EN 61008-1:2012, EN 61008-1:2012/A1:2014, EN 61008-1:2012/A2:2014, EN 61008-1:2012/A11:2015, EN 61008-1:2012/A12:2017, EN 61008-2-1:1994 and EN 61008-2-1:1994/A11:1998
- an inspection of the production location according to CENELEC Operational Document CIG 021
- a certification agreement with the number 2157361

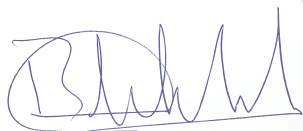
DEKRA hereby grants the right to use the KEMA-KEUR certification mark.

The KEMA-KEUR certification mark may be applied to the product as specified in this certificate for the duration of the KEMA-KEUR certification agreement and under the conditions of the KEMA-KEUR certification agreement.

This certificate is issued on 12 August 2020 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 33-114933

DEKRA Certification B.V.



B.T.M. Holtus  
Managing Director



R Zhou  
Certification Manager

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DUTCH ACCREDITATION  
COUNCIL



**SPECIFICATION OF THE CERTIFIED PRODUCT****Product data**

|                                                                     |                                                                                                                                                                               |
|---------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product                                                             | : Residual current operated circuit-breakers without integral overcurrent protection (RCCB)                                                                                   |
| Trade name(s)                                                       | : GACIA                                                                                                                                                                       |
| Type(s)/model(s)                                                    | : N8LGM                                                                                                                                                                       |
| Number of poles                                                     | : 1P+N, 3P+N                                                                                                                                                                  |
| Rated current (I <sub>n</sub> )                                     | : 25, 40, 63, 80, 100 A                                                                                                                                                       |
| Rated residual current (I <sub>Δn</sub> )                           | : 30, 100, 300 mA for type A and AC (without time-delay),<br>100, 300 mA for type A (type S), 30, 300 mA for type A<br>(Additional operating characteristics with letter "G") |
| Rated voltage (U <sub>e</sub> )                                     | : 230 Vac (1P+N) , 400 Vac (3P+N)                                                                                                                                             |
| Rated frequency                                                     | : 50 Hz                                                                                                                                                                       |
| Behaviour to d.c. Components                                        | : Type A and AC                                                                                                                                                               |
| Time delay                                                          | : Without time delay and with time delay                                                                                                                                      |
| Dependent of the line voltage                                       | : No                                                                                                                                                                          |
| Rated conditional short-circuit current (I <sub>nc</sub> )          | : 10 kA                                                                                                                                                                       |
| Rated conditional residual short-circuit current (I <sub>Δc</sub> ) | : 10 kA                                                                                                                                                                       |
| Rated making and breaking capacity (I <sub>m</sub> )                | : 1000 A                                                                                                                                                                      |
| Rated residual making and breaking capacity (I <sub>Δm</sub> )      | : 1000 A                                                                                                                                                                      |
| The grid distance "a"                                               | : 45 mm                                                                                                                                                                       |
| Ambient air temperature                                             | : -25 °C to +40 °C                                                                                                                                                            |
| Method of mounting                                                  | : Flush-type, for mounting on top hat rail 35 mm (EN 50022)                                                                                                                   |
| Degree of protection against moisture                               | : IP20                                                                                                                                                                        |
| Connection                                                          | : Pillar terminal for copper conductors                                                                                                                                       |
| Markings                                                            | : Trade name, type designation and electrical ratings are indicated on the body                                                                                               |

**TESTS****Test requirements**

EN 61008-1:2012  
EN 61008-1:2012/A1:2014  
EN 61008-1:2012/A2:2014  
EN 61008-1:2012/A11:2015  
EN 61008-1:2012/A12:2017  
EN 61008-2-1:1994  
EN 61008-2-1:1994/A11:1998

**Test result**

The test results are laid down in DEKRA test file 331814800.

**Additional information**

The referred test reports are 3318148.50 and LCIE CB test report no. B200014 with CB certificate no. FR\_708508.

The product also complies with IEC 61008-1:2010, A1:2012, A2:2013 and IEC 61008-2-1:1990.

**Conclusion**

The examination proved that all requirements were met.

**Factory location**

GACIA ELECTRICAL APPLIANCE CO., LTD.

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The type A product with the letter “G” have additional operating characteristics list as below:

| Limit values of break time and non-actuating time (s) for type A RCCB with letter “G” in event of alternating residual currents (r.m.s. value s) equal to |           |                     |                |                  |                  |                               |                |       |                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------------|----------------|------------------|------------------|-------------------------------|----------------|-------|---------------------------------------|
| Type                                                                                                                                                      | In<br>A   | $I_{\Delta n}$<br>A | $I_{\Delta n}$ | $2 I_{\Delta n}$ | $5 I_{\Delta n}$ | $5 I_{\Delta n}$ or<br>0,25 A | 5 A -<br>200 A | 500 A |                                       |
| A<br>“G”                                                                                                                                                  | $\geq 25$ | 0,03                | 0,3            | 0,15             |                  | 0,04                          | 0,04           | 0,04  | Maximum<br>break<br>times             |
|                                                                                                                                                           |           | >0,03               | 0,3            | 0,15             | 0,04             |                               | 0,04           | 0,04  |                                       |
|                                                                                                                                                           |           | 0,03                | 0,01           | 0,01             |                  | 0,01                          | 0,01           | 0,01  | Minimum<br>non-<br>actuating<br>times |
|                                                                                                                                                           |           | >0,03               | 0,01           | 0,01             | 0,01             |                               | 0,01           | 0,01  |                                       |