

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 with integral overcurrent protection (RCBO)
Trade name(s) : GACIA
Type(s)/model(s) : HL8M2, HL8M4, NL8M2, NL8M4, PL8M2 and PL8M4

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

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

- a type test according to EN 61009-1:2012, EN 61009-1:2012/A1:2014, EN 61009-1:2012/A2:2014, EN 61009-1:2012/A11:2015, EN 61009-1:2012/A12:2016, EN 61009-1:2012/A13:2021, EN 61009-2-1:1994, EN 61009-2-1:1994/A11:1998, IEC 61009-1:2010, IEC 61009-1:2010/AMD1:2012, IEC 61009-1:2010/AMD2:2013 and IEC 61009-2-1:1991
- an inspection of the factory location according to CENELEC Operational Document CIG 021
- a DEKRA certification agreement with the number 6069766

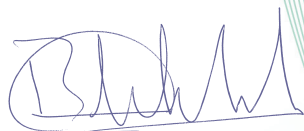
DEKRA hereby grants the right to use the DEKRA Mark.

The DEKRA Mark may be applied to the product as specified in this certificate for the duration and under the conditions of the DEKRA Mark certification agreement.

This certificate is issued on 9 May 2025 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 33-157868

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



Massimiliano Triulzi
Certification Manager

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DUTCH ACCREDITATION
COUNCIL



33-157868

DEKRA Mark is the new KEMA-KEUR

The DEKRA Mark certificate for this product is to all intents and purposes equivalent to a KEMA-KEUR certificate, the other certification mark used by DEKRA and should be valued and used as such. DEKRA Mark is gradually replacing KEMA-KEUR.

For more information please check: [Introducing DEKRA Mark](#)

SPECIFICATION OF THE CERTIFIED PRODUCT**Product data**

Product	: Residual current operated circuit-breakers with integral overcurrent protection (RCBO)
Trade name(s)	: GACIA
Type(s)/model(s)	: HL8M2, HL8M4, NL8M2, NL8M4, PL8M2 and PL8M4
Number of poles	: 2P and 4P
Rated current (In)	: 6, 10, 13, 16, 20, 25, 32, 40 A
Rated residual current (I Δ n)	: 0,03, 0,1, 0,3 A
Classification of rcbos functionally dependent on the line voltage	: No
Rated voltage (Un)	: 230 Vac for 2P, 400 Vac for 4P
Rated frequency (Hz)	: 50 Hz
Behaviour to d.c. Components	: Type A
Time delay	: Without time delay
Range of instantaneous tripping overcurrent	: B and C type
Rated short-circuit capacity (Icn)	: 6 kA or 10 kA for 6 - 20 A, 6 kA for 25 - 40 A
Rated service short-circuit capacity (Ics)	: 6 kA or 7,5 kA for 6 - 20 A, 6 kA for 25 - 40 A
Rated residual making and breaking capacity (I Δ m)	: 3 kA
Energy limiting class	: Class 3
The grid distance "a"	: 45 mm
Ambient air temperature	: -25 °C ... + 40 °C
Reference calibration temperature	: 30 °C

TESTS**Test requirements**

EN 61009-1:2012
EN 61009-1:2012/A1:2014
EN 61009-1:2012/A2:2014
EN 61009-1:2012/A11:2015
EN 61009-1:2012/A12:2016
EN 61009-1:2012/A13:2021
EN 61009-2-1:1994
EN 61009-2-1:1994/A11:1998
IEC 61009-1:2010
IEC 61009-1:2010/AMD1:2012
IEC 61009-1:2010/AMD2:2013
IEC 61009-2-1:1991

Test result

The test results are documented in DEKRA test file 333222800.

Additional information

The referred test report is 3332228.50.

Conclusion

The examination has confirmed that all requirements were met.

Factory location

GACIA ELECTRICAL APPLIANCE CO., LTD.

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