

# 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) : L80E, L80M, L80M-R, PL8HE, PL8HM, PL8NE and PL8NM

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 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 61009-2-1:1994 and EN 61009-2-1:1994/A11:1998
- an inspection of the production location according to CENELEC Operational Document CIG 021
- a certification agreement with the number 2157361

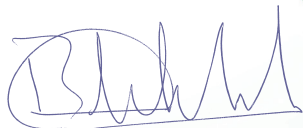
DEKRA hereby grants the right to use the KEMA-KEUR certification mark.

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 3 July 2020 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 33-114135

DEKRA Certification B.V.



B.T.M. Holtus  
Managing Director



H.R.M. Barends  
Certification Manager

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ACCREDITED BY THE  
DUTCH ACCREDITATION  
COUNCIL



**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)	: L80E, L80M, L80M-R, PL8HE, PL8HM, PL8NE and PL8NM
Number of poles	: 1P+N
Number of protected poles	: 1 protected pole
Rated current (In)	: 6, 10, 16, 20, 25, 32 A
Rated residual current (I $\Delta$ n)	: 30, 100, 300 mA
Classification of rcbos functionally dependent on the line voltage	: No
Rated voltage (Un)	: 230 Vac
Rated frequency (Hz)	: 50 Hz
Behaviour to d.c. components	: Type A and AC
Time delay	: Without time-delay
Range of instantaneous tripping overcurrent	: B and C type
Rated short-circuit capacity (Icn)	: 6 kA
Service short-circuit capacity (Ics)	: 6 kA
Rated residual making and breaking capacity (I $\Delta$ m)	: 3 kA
Energy limiting class	: Class 3
Safety distance "a" (grid)	: 45 mm
Temperature limit	: -25 °C ... + 40 °C
Reference ambient 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 61009-2-1:1994  
EN 61009-2-1:1994/A11:1998

**Test result**

The test results are laid down in DEKRA test file 331703200.

**Additional information**

The referred test reports are 3317032.50 and 3307822.50.

The product also complies with IEC 61009-1:2010, A1:2012, A2:2013 and IEC 61009-2-1:1991.

This certificate replaces certificate No. 3307822.01 which we hereby declare invalid.

**Conclusion**

The examination proved that all requirements were met.

**Factory location**

GACIA ELECTRICAL APPLIANCE CO., LTD.

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