CERTIFICATE

Issued to:

Applicant:
Kuno Engels GmbH & Co.
Elektrotechnische Fabrik und Weberei
Hauptstrasse 42
42799 Leichlingen, Germany

Manufacturer/Licensee:
Kuno Engels GmbH & Co.
Elektrotechnische Fabrik und Weberei
Hauptstrasse 42
42799 Leichlingen, Germany

Product(s)	:	Heating elements
Trade name(s)	:	ENGELS
Type(s)/model(s)	:	HL-R/L1, HL-R/L2/L4, HL-R/L3/L5, HL-R/L6, HL-R/L7, HL-R/L8, HL-R/L9HL-R/L10, HL-R/L11, HL-R/L12, HL-R/L13, HL-R/L14, HL-R/L15, HL-R/L16/L18, HL-R/L17, HL-R/L19, HL-R/L20

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 60335-1:2012; EN 60335-2-30:2009; EN 62233:2008
- an inspection of the production location according to CENELEC Operational Document CIG 021
- a certification agreement with the number 954228

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

Compliance with the requirements of this Standard carries a presumption of conformity with the essential safety requirements of the Low Voltage Directive 2006/95/EC.

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: 14 February 2013 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 2157720.07

DEKRA Certification B.V.

drs. G.J. Zoetbrood
Managing Director

H.J. Brouwer
Certification Manager

© Integral publication of this certificate is allowed

ACCREDITED BY
THE DUTCH COUNCIL
FOR ACCREDITATION

PRODUCTS
RvA C 001

KEMA KEUR

SPECIFICATION OF THE CERTIFIED PRODUCT

Product data

product	:	Heating elements
trade name(s)	:	ENGELS
type(s)	:	HL-R/L1, HL-R/L2/L4, HL-R/L3/L5, HL-R/L6, HL-R/L7, HL-R/L8, HL-R/L9HL-R/L10, HL-R/L11, HL-R/L12, HL-R/L13, HL-R/L14, HL-R/L15, HL-R/L16/L18, HL-R/L17, HL-R/L19, HL-R/L20
rated voltage	:	230 V
nature of supply	:	a.c.
class	:	must be guaranteed by building in
degree of protection	:	ordinary

Further data: dimensions are in mm.

Product data - type HL-R/L1

rated power input	:	250 W
dimensions	:	225/305 x 190

Product data - type HL-R/L2/L4

rated power input	:	333 W
dimensions	:	225/305 x 190

Product data - type HL-R/L3/L5

rated power input	:	500 W
dimensions	:	225/305 x 190

Product data - type HL-R/L6

rated power input	:	666 W
dimensions	:	225/305 x 260

Product data - type HL-R/L7

rated power input	:	833 W
dimensions	:	225/305 x 260

Product data - type HL-R/L8

rated power input	:	1000 W
dimensions	:	225/305 x 260

Product data - type HL-R/L9

rated power input	:	1000 W
dimensions	:	300/400 x 200

Product data - type HL-R/L10

rated power input	:	1333 W
dimensions	:	325/400 x 220

Product data - type HL-R/L11

rated power input	:	1666 W
dimensions	:	320/400 x 290

Product data - type HL-R/L12

rated power input	:	2000 W
dimensions	:	320/400 x 290

Product data - type HL-R/L13

rated power input	:	2222 W
dimensions	:	420/500 x 280

Product data - type HL-R/L14

rated power input	:	2666 W
dimensions	:	420/500 x 350

Product data - type HL-R/L15

rated power input	:	3333 W
dimensions	:	420/500 x 360

Product data - type HL-R/L16/L18

rated power input	:	3333 W
dimensions	:	670/750 x 280

Product data - type HL-R/L17

rated power input	:	2777 W
dimensions	:	370/750 x 220

Product data - type HL-R/L19

rated power input	:	3333 W
dimensions	:	860/950 x 220

Product data - type HL-R/L2/L4

rated power input	:	333 W
dimensions	:	225/305 x 190

Product data - type HL-R/L20

rated power input	:	3333 W
dimensions	:	1050/1150 x 190

TESTS

Test requirements
EN 60335-1:2012
EN 60335-2-30:2009 + A11:2012 + C11:2010
EN 62233:2008 + C1:2008

Test result
The test results are laid down in DEKRA test file 2157720.00.

Remarks
The list of components is laid down in test report No.: 2157720.51, which consists of sub-reports with suffixes A, B and C.
This certificate is based on and replaces certificate 95.4228.02 dated October 8, 1996 which we hereby declare invalid.

Conclusion
The examination proved that all test requirements were met.

Tested by : A. Tom

Checked by : T.M.H. van Huet

Factory locations
Kuno Engels GmbH & Co., Elektrotechnische Fabrik und Weberei
Hauptstrasse 42, 42799, Leichlingen
Germany