

# CERTIFICATE

Issued to:  
Applicant:  
**Zhejiang CHINT Electric Co., Ltd.**  
No.1, Chint Road, CHINT Industrial Zone, North  
Baixiang, Yueqing, Zhejiang Province,  
P.R.CHINA

Manufacturer/Licensee:  
**Zhejiang CHINT Electric Co., Ltd.**  
No.1, Chint Road, CHINT Industrial Zone, North  
Baixiang, Yueqing, Zhejiang Province,  
P.R.CHINA

Product(s) : Thermal overload relay  
Trade name(s) : CHINT  
Type(s)/model(s) : NR2-93

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 60947-4-1: 2010 + A1: 2012; EN 60947-5-1: 2004 + A1: 2009; IEC 60947-4-1: 2009 + A1: 2012; IEC 60947-5-1: 2003 + A1: 2009;
- an inspection of the production location according to CENELEC Operational Document CIG 021
- a certification agreement with the number 2032236

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.

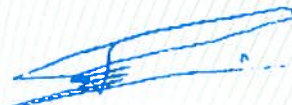
This certificate is issued on: 19 October 2015 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 3308252.01

DEKRA Certification B.V.



drs. G.J. Zoetbrood  
Managing Director



F.S. Strikwerda  
Certification Manager

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ACCREDITED BY THE  
DUTCH ACCREDITATION  
COUNCIL



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

product	: thermal overload relay
trade name(s)	: CHINT
type(s)	: NR2-93
general	:
method of operation	: bimetal heated
pollution degree	: 3
main circuit	:
number of poles	: 3
rated frequency	: 50/60 Hz
conventional thermal current (I <sub>th</sub> )	: 93 A
rated operational voltage (U <sub>e</sub> )	: 380/400/415 Vac, 660 Vac
rated operational current I <sub>e</sub> (A)	: 23-32 A, 30-40 A, 37-50 A, 48-65 A, 55-70 A, 63-80 A, 80-93 A
rated insulation voltage (U <sub>i</sub> )	: 690 V
rated impulse withstand voltage (U <sub>imp</sub> )	: 6 kV
rated conditional short-circuit current ("r")	: 5 kA
rated conditional short-circuit current ("I <sub>q</sub> ")	: 50 kA
type of co-ordination	: 1
SCPD	: fuse RT36-2(NT2), gG 160 A, 50 kA at 690 Vac
terminal terminations	: flexible and rigid stranded wire: 1,5 mm <sup>2</sup> - 35 mm <sup>2</sup> one side, screw terminals, one conductor per terminal other side, pins to be connected to contactors
auxiliary circuit	:
number and kind of contact elements	: 1 NO and 1 NC
rated frequency	: 50/60 Hz
utilization category	: AC-15, DC-13
conventional thermal current (I <sub>th</sub> )	: 5 A
rated current (I <sub>e</sub> )	: AC-15: 1,58 A, 380 Vac; 2,73 A, 220 Vac DC-13: 0,2 A, 220 Vdc
rated conditional short-circuit current	: 1 kA with fuse RT36-00 (NT00 gG 6 A 120 kA at 500 Vac)

**TESTS****Test requirements**

EN 60947-4-1: 2010 + A1: 2012  
EN 60947-5-1: 2004 + A1: 2009  
IEC 60947-4-1: 2009 + A1: 2012  
IEC 60947-5-1: 2003 + A1: 2009

**Test result**

The test results are laid down in DEKRA test file 3308252.01 and test reports No. 3308252.50 and 3301041.57.

**Remarks**

This certificate replaces the KEMA-KEUR certificate no. 2138222.01 issued on 22 September 2010.

**Conclusion**

The examination proved that all test requirements were met.

Tested by : Max Ma



Checked by : Eric Wang

**Factory locations**

Zhejiang CHINT Electrics Co., Ltd.

No.1, Chint Road, CHINT Industrial Zone, North Baixiang, Yueqing, Zhejiang Province, P.R.CHINA