

CERTIFICATE

Number: 2138222.01



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

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

Product(s) : Thermal Overload Relay
Trade name(s) : CHINT
Type(s)/model(s) : NR2-11,5, NR2-25, NR2-36, NR2-93, NR2-150, NR2-200, NR2-630

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

KEMA Quality 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; IEC 60947-4-1:2009; EN 60947-5-1:2009; IEC 60947-5-1:2009;
- an inspection of the production location according to CENELEC Operational Document CIG 021
- a certification agreement with the number 2032236

KEMA Quality 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: 22 September 2010 and expires upon withdrawal of one of the above mentioned standards.

KEMA Quality B.V.

drs. G.J. Zoetbrood
Managing Director

H.R.M. Barends
Certification Manager

ACCREDITED BY
THE DUTCH COUNCIL
FOR ACCREDITATION



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SPECIFICATION OF THE CERTIFIED PRODUCT

Product data

Product	:	Thermal Overload Relay
Trade name(s)	:	CHINT
Type(s)	:	NR2-11,5, NR2-25, NR2-36, NR2-93, NR2-150, NR2-200, NR2-630
General	:	
Method of operation	:	Bimetal heated
Pollution degree	:	3
Degree of protection	:	N/A
Main circuit	:	
Number of poles	:	3-poles
Contacts	:	No main contacts
Rated frequency	:	50/60 Hz
Rated operational voltage (Ue)	:	380 / 400 / 415 / 660 Vac
Rated insulation voltage (Ui)	:	690 V
Rated impulse withstand voltage (Uimp)	:	6 kV
Terminations	:	NR2-11,5, NR2-25, NR2-36, NR2-93, NR2-150: One side, screw terminals, one conductor per terminal. other Side, pins to be connected to contactors. NR2-200, NR2-630: prepared conductors (cables with lug)
Auxiliary circuit	:	
Number of contacts	:	1x NC contact 1 x NO contact
Rated frequency	:	50/60 Hz and dc
Utilization category	:	AC-15 220 V, 2,73 A AC-15 380 V, 1,58 A DC-13 220 V, 0,2 A
Rated uninterrupted current (Ith)	:	5 A
Rated insulation voltage (Ui)	:	690 V
Rated conditional short-circuit current	:	1 kA, SCPD fuse RT36-00 (NT00 gG 6 A)
Connecting capacity	:	Flexible and rigid stranded wire, 0,5 mm ² - 1 mm ²

Product data - type NR2-11,5

Main circuit	:	
Conventional thermal current (Ith)	:	13 A
Connecting capacity	:	Flexible and rigid stranded wire, 0,5 mm ² - 2,5 mm ²
Rated current	:	0,1-0,16 A, 0,16-0,25 A, 0,25-0,4 A, 0,4-0,63 A, 0,63-1 A, 1-1,6 A, 1,25-2 A, 1,6-2,5 A, 2,5-4 A, 4-6 A, 5,5-8 A, 7-10 A, 9-13 A
Rated conditional short-circuit current ("I _r ")	:	1 kA
Rated conditional short-circuit current ("I _q ")	:	50 kA
Type of co-ordination	:	1
SCPD	:	fuse RT36-00(NT00), gG 25 A, 690 V, 50 kA

Product data - type NR2-150

Main circuit	:	
Conventional thermal current (I _{th})	:	150 A
Connecting capacity	:	Flexible and rigid stranded wire, 10 mm ² - 50 mm ²
Rated current	:	80-104 A, 95-120 A, 110-150 A
Rated conditional short-circuit current ("r")	:	10 kA
Rated conditional short-circuit current ("I _q ")	:	50 kA
Type of co-ordination	:	1
SCPD	:	fuse RT36-2 (NT2), gG 250 A, 690 V, 50 kA

Product data - type NR2-200

Main circuit	:	
Conventional thermal current (I _{th})	:	200 A
Connecting capacity	:	Prepared conductors (cables with lug), 10 mm ² - 95 mm ²
Rated current	:	80-125 A, 100-160 A, 125-200 A
Rated conditional short-circuit current ("r")	:	10 kA
Rated conditional short-circuit current ("I _q ")	:	50 kA
Type of co-ordination	:	1
SCPD	:	fuse RT36-3(NT3), gG 315 A, 690 V, 50 kA

Product data - type NR2-25

Main circuit	:	
Conventional thermal current (I _{th})	:	25 A
Connecting capacity	:	Flexible and rigid stranded wire, 0,5 mm ² - 4 mm ²
Rated current	:	0,1-0,16 A, 0,16-0,25 A, 0,25-0,4 A, 0,4-0,63 A, 0,63-1 A, 1-1,6 A, 1,25-2 A, 1,6-2,5 A, 2,5-4 A, 4-6 A, 5,5-8 A, 7-10 A 9-13 A, 12-18 A, 17-25 A
Rated conditional short-circuit current ("r")	:	3 kA
Rated conditional short-circuit current ("I _q ")	:	50 kA
Type of co-ordination	:	1
SCPD	:	fuse RT36-00(NT00), gG 50 A, 690 V, 50 kA

Product data - type NR2-36

Main circuit	:	
Conventional thermal current (I _{th})	:	36 A
Connecting capacity	:	Flexible and rigid stranded wire, 1,5 mm ² - 10 mm ²
Rated current	:	23-32 A, 28-36 A
Rated conditional short-circuit current ("r")	:	3 kA
Rated conditional short-circuit current ("I _q ")	:	50 kA
Type of co-ordination	:	1
SCPD	:	fuse RT36-1(NT1), gG 80 A, 690 V, 50 kA

Product data - type NR2-630

Main circuit	:	
Conventional thermal current (I _{th})	:	630 A
Connecting capacity	:	Prepared conductors (cables with lug), 35 mm ² – 2X185 mm ²
Rated current	:	160-250 A, 200-315 A, 250-400 A, 315-500 A, 400-630 A
Rated conditional short-circuit current ("r")	:	18 kA
Rated conditional short-circuit current ("I _q ")	:	50 kA
Type of co-ordination	:	1
SCPD	:	fuse RT36-4(NT4), gG 800 A, 690 V, 50 kA

Product data - type NR2-93

Main circuit	:	
Conventional thermal current (I _{th})	:	93 A
Connecting capacity	:	Flexible and rigid stranded wire, 1,5 mm ² - 35 mm ²
Rated current	:	23-32 A, 30-40 A, 37-50 A, 48-65 A, 55-70 A, 63-80 A, 80-93A
Rated conditional short-circuit current ("r")	:	5 kA
Rated conditional short-circuit current ("I _q ")	:	50 kA
Type of co-ordination	:	1
SCPD	:	fuse RT36-2(NT2), gG 160 A, 690 V, 50 kA

TESTS

Test requirements

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

Test result

The test results are laid down in KEMA Quality test file 2138222.01 and 330104100 and test report no 3301041.50-3301041.57.

Remarks

All overload relays are thermal compensated for ambient air temperature variations and Phase loss sensitive.

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,
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