

# CERTIFICATE

Issued to:

Applicant:

**Zhejiang Chint Electric Co., Ltd.**  
No.1, Chint Road, Chint Industrial Zone, North  
Baixiang, Yueqing, Zhejiang, P.R. China

Manufacturer/Licensee:

**Zhejiang Chint Electric Co., Ltd.**  
No.1, Chint Road, Chint Industrial Zone, North  
Baixiang, Yueqing, Zhejiang, P.R. China

Product(s) : Air Circuit Breaker  
Trade name(s) : CHINT  
Type(s)/model(s) : NA8-2500

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 60947-2:2006 + A1:2009 + A2:2013; IEC 60947-2:2006 + A1:2009 + A2:2013; EN 60947-5-1: 2004 + A1:2009; 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.

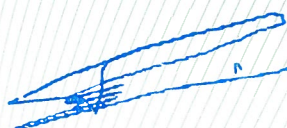
This certificate is issued on: 2 June 2015 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 3307262.01

DEKRA Certification B.V.



drs. G.J. Zoetbrood  
Managing Director



F.S. Strikwerda  
Certification Manager

© Integral publication of this certificate is allowed

ACCREDITED BY THE  
DUTCH ACCREDITATION  
COUNCIL



## SPECIFICATION OF THE CERTIFIED PRODUCT

### Product data

product	:	Air Circuit Breaker
trade name(s)	:	CHINT
type(s)	:	NA8-2500
number of poles	:	3 P and 4P (protected N pole)
protected pole	:	3 or 4
rated operational voltage (Ue)	:	400 Vac / 415 Vac / 690 Vac
rated insulation voltage (Ui)	:	1000 V for main circuit 415 V for control circuits and auxiliary circuits
rated impulse withstand voltage (Uimp)	:	12 kV for main circuit 6 kV for control circuits and auxiliary circuits
rated current (In)	:	630 A, 800 A, 1000 A, 1250 A, 1600 A, 2000 A, 2500 A
rated operational current (Ie)	:	(0,4 - 1,0) x In
conventional thermal current (Ith)	:	Equal to In
current rating for four-pole circuit-breakers	:	Equal to In
rated frequency	:	50 / 60 Hz
rated ultimate short-circuit breaking capacity (Icu)	:	85 kA at 400 Vac / 415 Vac, 65 kA at 690 Vac
rated service short-circuit breaking capacity (Ics)	:	85 kA at 400 Vac / 415 Vac, 65 kA at 690 Vac
rated short-time withstand current (Icw)	:	85 kA / 1 s at 400 Vac / 415 Vac, 65 kA / 1 s at 690 Vac
suitable for isolation	:	Suitable
utilization category	:	B
safety distance (screen-circuit breaker)	:	All sides: 0 mm
inverse time delay release	:	Ir (inverse time delay tripping setting): (0,4 - 1,0) x In, in step of 1 A
time setting of the inverse time delay release	:	tr (inverse time delay tripping setting): 1 s, 2 s, 4 s, 8 s, 12 s, 16 s, 20 s, 24 s, 30 s with tolerance of ± 15% (at 6 Ir) Trip time at 2 Ir: Set at 1 s: 9,0 s, with tolerance of ± 15% Set at 30 s: 270 s, with tolerance of ± 15%
short time delay release	:	I <sub>sd</sub> (short time delay tripping setting): (1,5 - 10) x Ir, in step of 1 A, if I <sub>sd</sub> < 10 kA, in step of 0,01 kA, if I <sub>sd</sub> ≥ 10 kA
time setting	:	t <sub>sd</sub> (short time delay tripping setting): 0,1 s, 0,2 s, with tolerance of ± 0,040 s 0,3 s, 0,4 s, with tolerance of ± 15% Non-tripping duration: Set at 0,1 s: 0,05 s, Set at 0,4 s: 0,33 s
instantaneous release	:	I <sub>i</sub> (instantaneous tripping setting): (2 - 15) x In, in step of 1 A, if I <sub>i</sub> < 10 kA, in step of 0,01 kA, if I <sub>i</sub> ≥ 10 kA



MCR release	: 25 kA
time setting	: instantaneous
ground fault release	: $I_g: (0,2 - 1,0) \times I_n$ (min.: 120 A, max.:1200 A), in step of 1 A, if $I_n < 2500$ A; 500 A - 1200 A, in step of 1 A, if $I_n \geq 2500$ A;
time setting	: $t_g: 0,1$ s, 0,2 s, with tolerance of $\pm 0,040$ s, 0,3 s, 0,4 s, with tolerance of $\pm 15\%$
method of mounting	: Fixed or Withdrawable
EMC environment	: A
circuit-breaker for use on phase- earthed systems	: N/A
circuit-breaker for use in IT systems	: N/A
reference temperature	: Independent
shunt release	: AC: 220 - 230 V, 380 - 415 V, 50 / 60 Hz DC: 110 V, 220 V
under-voltage release	: AC: 220 - 230 V, 380 - 415 V, 50 / 60 Hz
closing coil	: AC: 220 - 230 V, 380 - 415 V, 50 / 60 Hz DC: 110 V, 220 V
stored energy motor	: AC: 220 - 230 V, 380 - 415 V, 50 / 60 Hz DC: 110 V, 220 V
auxiliary circuits	: Utilization category: AC-15: 1,3 A at 230 Vac, 0,75 at 415 Vac, 50 / 60 Hz DC-13: 0,55 A at 110 Vdc, 0,27 A at 220 Vdc number and kind of contact elements: 4 NO and 4 NC or 6 NO and 6 NC rated conditional short-circuit current: 1 kA conventional free air thermal current ( $I_{th}$ ): 6 A kind of protective device: fuse, NT00-6, 6 A, 500 V / 690 V
External supply for trip unit	: AC: 220 - 230 V, 380 - 415 V, 50 / 60 Hz DC: 110 V, 220 V
line/load terminal	: Immaterial
connection	: Prepared copper conductor with cable lug for 630 A to 800 A Copper busbar for 1000 A to 2500 A

**Additional information:**

Nomenclature breakdown:

NA8-2500/x

a    b    c

a = Model name

b = Frame size

c = pole numbers, blank for 3P, 4 for 4P

**TESTS****Test requirements**

EN 60947-2:2006 + A1:2009 + A2:2013  
IEC 60947-2:2006 + A1:2009 + A2:2013  
EN 60947-5-1: 2004 + A1:2009  
IEC 60947-5-1: 2003 + A1:2009

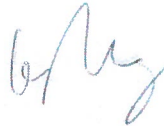
**Test result**

The test results are laid down in DEKRA test file 3307262.01 and reports 3307262.50/51, 3305866.50, 3301166.52, 3301166.54.

**Conclusion**

The examination proved that all test requirements were met.

Tested by : King Wang

A handwritten signature in blue ink, appearing to read 'King Wang'.

Checked by : Eric Wang

A handwritten signature in blue ink, appearing to read 'Eric Wang'.**Factory locations**

NOARK ELECTRICS (SHANGHAI) CO., LTD.  
No. 3857, Sixian Road, Songjiang District, Shanghai, 201614, China