

# ATTESTATION OF CONFORMITY

Issued to: Zhejiang Chint Electric Co., Ltd.  
No. 1, Chint Road, Chint Industrial Zone, North Baixiang, Yueqing, Zhejiang, China

For the product: Air Circuit Breaker

Trade name: CHINT

Type/Model: NA1-1000, NA1-1000X

Ratings: Ue: 400 Vac / 690 Vac  
In: 200 A, 400 A, 630 A, 800 A, 1000 A  
Ui: 800 V, Uimp: 8 kV, 3P and 4P (unprotected N pole)  
see other technical data on annex pages

Manufactured by: Zhejiang Chint Electric Co., Ltd.  
No. 1, Chint Road, Chint Industrial Zone, North Baixiang, Yueqing, Zhejiang, China

Subject: Type test

Requirements: EN 60947-2:2006, EN 60947-2:2006/A1:2009, EN 60947-2:2006/A2:2013,  
EN 60947-5-1:2004, EN 60947-5-1:2004/A1:2009, IEC 60947-2:2016,  
IEC 60947-5-1:2003+A1:2009

This Attestation is granted on account of an examination by DEKRA, the results of which are laid down in test reports no. 3311812.50 issued on 2017-08-24, 3307984.50 issued on 2015-08-17, 3300977.50 issued on 2010-02-23, W0808013.50 and W0808013.52 issued on 2009-05-20.

This Attestation implies that the examined types are in accordance with the standards designated under the Low voltage directive (LVD) 2006/95/EC.

The examination has been carried out on one single specimen or several specimens of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Wenzhou, Zhejiang, 19 September 2017      Number: 3311812.01A

DEKRA Testing Services (Zhejiang) Co., Ltd.

Ms J Guo  
Certification Manager

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The CE marking may be affixed on the product if all relevant and effective EC directives are complied with.



DEKRA Testing Services (Zhejiang) Co., Ltd.

No. 5, Changjiang Road Great Bridge Industrial Park North Baixiang, Wenzhou, Zhejiang, 325603, P. R. China

T +86577628680 00 F +86577629198 89 www.dekra-certification.com

**Ratings:**

number of poles	: 3 P and 4P (unprotected N pole)
protected pole	: 3
rated operational voltage (Ue)	: 400 Vac / 690 Vac
rated insulation voltage (Ui)	: 800 V for main circuit 400 V for control circuits and auxiliary circuits
rated impulse withstand voltage (Uimp)	: 8 kV for main circuit 4 kV for control circuits and auxiliary circuits
rated current (In)	: 200 A, 400 A, 630 A, 800 A, 1000 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 50% In
rated frequency	: 50 / 60 Hz
rated ultimate short-circuit breaking capacity (Icu)	: 42 kA at 400 Vac, 25 kA at 690 Vac
rated service short-circuit breaking capacity (Ics)	: 30 kA at 400 Vac, 20 kA at 690 Vac
rated short-time withstand current (Icw)	: 30 kA / 1s at 400 Vac, 20 kA / 1s at 690 Vac
suitable for isolation	: Suitable
utilization category	: B
safety distance (screen-circuit breaker)	: All sides: 0 mm
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: 400 V, 50 / 60 Hz
under-voltage release	: AC: 400 V, 50 / 60 Hz
closing coil	: AC: 400 V, 50 / 60 Hz
stored energy motor	: AC: 400 V, 50 / 60 Hz
auxiliary circuits	: Utilization category: AC-15: 1,3 A at 230 Vac, 0,25 at 400 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 rated conditional short-circuit current: 1 kA conventional free air thermal current (Ith): 6 A kind of protective device: fuse, RL6-25/6, gG, 6 A, 500 V, 7,5 kA
Line/load terminal Connection	: Immaterial Prepared copper conductor with cable lug for 200 A to 800 A Copper busbar for 1000 A
Rated tightening torque for terminals	: 14 Nm

**Ratings - type NA1-1000**

type of electronic release	:	NKD3
inverse time delay release	:	Ir (inverse time delay tripping setting): (0,4, 0,5, 0,6, 0,7, 0,8, 0,9, 1,0) x In
time setting of the inverse time delay release	:	tr (inverse time delay tripping setting): 30 s, 60 s, 120 s, 240 s with tolerance of ± 10% (at 1,5 Ir) Trip time at 2 Ir: Set at 30 s: 16,9 s, with tolerance of ± 10% Set at 240 s: 135 s, with tolerance of ± 10%
short time delay release	:	I <sub>sd</sub> (short time delay tripping setting): (3, 4, 5, 6, 7, 8, 10) x Ir
time setting	:	t <sub>sd</sub> (short time delay tripping setting): 0,2 s, 0,4 s, with tolerance of ± 25% Non-tripping duration: Set at 0,2 s: 0,13 s, Set at 0,4 s: 0,25 s
instantaneous release	:	li (instantaneous tripping setting): (3, 4, 6, 8, 10, 12, 15) x In
ground fault release	:	(0,2, 0,3, 0,4, 0,5, 0,6, 0,7, 0,8) x In
time setting of ground fault release	:	tg: 0,2 s, 0,4 s, 0,6 s, 0,8 s with tolerance of ± 25%
making current release	:	13 kA

**Ratings - type NA1-1000X**

type of electronic release	:	NST1-D
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): 15 s, 30 s, 60 s, 120 s, 240 s, 480 s with tolerance of ± 10% (at 1,5 Ir) Trip time at 2 Ir: Set at 15 s: 8,4 s, with tolerance of ± 10%, Set at 480 s: 270 s, with tolerance of ± 10%
short time delay release	:	I <sub>sd</sub> (short time delay tripping setting): (1,5 - 15) x Ir, in step of 1 A, if li < 10 kA, in step of 0,01 kA, if li ≥ 10 kA
time setting	:	t <sub>sd</sub> (short time delay tripping setting): 0,1 s, 0,2 s, with tolerance of ± 40 ms, 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	:	li (instantaneous tripping setting): (1,5 - 20) x In, in step of 1 A, if li < 10 kA, in step of 0,01 kA, if li ≥ 10 kA
ground fault release	:	I <sub>g</sub> : (0,2 - 0,8) x In, in step of 1 A (with minimum current setting 100 A, if In = 200 A, 400 A)
time setting of ground fault release	:	tg: 0,1 s, 0,2 s, with tolerance of ± 40 ms 0,3 s, 0,4 s, with tolerance of ± 15%
making current release	:	6,3 kA (200 A - 400 A), 12,6 kA (400 A - 1000 A),

**Additional information**

Nomenclature breakdown:

NA1-1000X/4

a    b    c d

a = Model name: NA1

b = Frame size: 1000

c = Electronic release: X means NST1-D , blank means NKD3

d = pole numbers: '3' means 3P ACBs, '4' means 4P ACBs