

# ATTESTATION OF CONFORMITY

Issued to: Zhejiang Chint Electrics Co., Ltd.  
No.1, Chint Road, Chint Industrial Zone, North Baixiang, Yueqing, 325603 Zhejiang, China

For the product: Air Circuit-Breaker

Trade name: CHINT

Type/Model: NXA40S, NXA40H

Ratings: Ue: 380 / 400 / 415 Vac, 440 / 525 / 690 Vac  
In: 4000 A, 3600 A, 3200 A  
Ui: 1000 V, Uimp: 12 kV, 3P or 4P (N pole with protection)  
see other technical data on annex pages

Manufactured by: Zhejiang Chint Electrics Co., Ltd.  
No.1, Chint Road, Chint Industrial Zone, North Baixiang, Yueqing, 325603 Zhejiang, China

Subject: Type test

Requirements: EN 60947-2:2017, EN 60947-5-1:2017,  
IEC 60947-2:2016 and IEC 60947-5-1:2016

This Attestation is granted on account of an examination by DEKRA, the results of which are laid down in test reports no. 3313370.50 issued on 2018-12-20, 3312363.51 issued on 2018-01-12 and CQC CB test reports no. 00901-CB2016CQC-070733 issued on 2016-08-04 and no. 00901-CB2016CQC-070733-M1 issued on 2017-06-29 with CQC CB test certificate no. CN38435-M1 issued on 2017-07-14.

This Attestation implies that the examined types are in accordance with the standards designated under the Low voltage directive (LVD) 2014/35/EU.

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, 02 January 2019

Number: 3313370.01A

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.



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**Ratings**

number of poles	:	3P or 4P (N pole with protection)
protected poles	:	3 or 4
rated operational voltage (U <sub>e</sub> )	:	380 / 400 / 415 Vac, 440 / 525 / 690 Vac
rated insulation voltage (U <sub>i</sub> )	:	1000 V for main circuit 415 V for control circuit 415 V for auxiliary circuit
rated impulse withstand voltage (U <sub>imp</sub> )	:	12 kV for main circuit 6 kV for control circuit 6 kV for auxiliary circuit
rated frequency	:	50 / 60 Hz
rated current (I <sub>n</sub> )	:	4000 A, 3600 A, 3200 A
conventional thermal current (I <sub>th</sub> )	:	Equal to I <sub>n</sub>
current rating for four-pole circuit-breakers	:	50% I <sub>n</sub> , 100% I <sub>n</sub> adjustable
individual pole short-circuit (I <sub>IT</sub> )	:	12 I <sub>n</sub> at 380 / 400 / 415 / 440 / 525 Vac
suitable for isolation	:	Suitable
selectivity category	:	B
safety distance (screen-circuit breaker)	:	Left / Right: 0 mm Up / Down: 0 mm Front / Back: 0 mm
reference temperature	:	Independent
method of mounting	:	Fixed or Withdrawable
EMC environment	:	A
tightening torque for terminals	:	50 Nm for M12
line/load terminal connection	:	Immaterial Copper busbar For I <sub>n</sub> = 3200 A, cross-sectional area of conductor (mm <sup>2</sup> ): (100 x 10) mm <sup>2</sup> x 4 For I <sub>n</sub> = 3600 A - 4000 A, cross-sectional area of conductor (mm <sup>2</sup> ): (100 x 10) mm <sup>2</sup> x 5
electronic trip unit type(s)	:	NKD6 series: NKD6-M, NKD6-A, NKD6-P and NKD6-H NST1-D series: NST1-DM, NST1-DA, NST1-DP and NST1-DH
inverse time delay release	:	I <sub>r</sub> (inverse time delay tripping setting): For trip units: NKD6-P, NKD6-H (0,4 - 1) x I <sub>n</sub> , in steps of 1 A For trip units: NST1-DM, NST1-DA, NST1-DP and NST1-DH (0,4 - 1) x I <sub>n</sub> , in steps of 2 A For trip units: NKD6-M and NKD6-A (0,4 / 0,5 / 0,6 / 0,7 / 0,8 / 0,9 / 1) x I <sub>n</sub>
time setting of the inverse time delay release	:	t <sub>r</sub> (inverse time delay tripping setting): 1 s / 2 s / 4 s / 8 s / 12 s / 16 s / 20 s / 24 s, with tolerance of ± 15% (at 6 I <sub>r</sub> ) 2 I <sub>r</sub> tripping time declared by the manufacturer: when t <sub>r</sub> = 1 s: 7,65 s - 10,35 s when t <sub>r</sub> = 24 s: 183,6 s - 248,4 s

short time delay release	: Isd (short time delay tripping setting): For trip units: NKD6-P, NKD6-H (2 - 10) x Ir, in steps of 1 A For trip units: NST1-DM, NST1-DA, NST1-DP and NST1-DH (2 - 10) x Ir, in steps of 2 A for li < 10 kA, in steps of 0,02 kA for li ≥ 10 kA For trip units: NKD6-M and NKD6-A (2 / 3 / 4 / 5 / 6 / 8 / 10) x Ir
time setting of the short time delay release	: tsd (short time delay tripping setting): I <sup>2</sup> t off: 0,1 s / 0,2 s / 0,3 s / 0,4 s 0,1 s, with tolerance of 60 ms - 140 ms 0,2 s, with tolerance of 160 ms - 240 ms 0,3 s, with tolerance of 255 ms - 345 ms 0,4 s, with tolerance of 340 ms - 460 ms non-tripping duration stated by the manufacturer: 0,1 s: 50 ms 0,2 s: 140 ms 0,3 s: 250 ms 0,4 s: 330 ms
instantaneous release	: li (instantaneous tripping setting): Max 50 kA For trip units: NKD6-P, NKD6-H (2 - 15) x In, in steps of 1 A For trip units: NST1-DM, NST1-DA, NST1-DP and NST1-DH (2 - 15) x In, in steps of 2 A for li < 10 kA, in steps of 0,02 kA for li ≥ 10 kA For trip units: NKD6-M and NKD6-A (2 / 4 / 6 / 8 / 10 / 12 / 15) x In
making current release (MCR) ground fault release	: 26 kA : Ig (ground fault release tripping setting): For trip units: NKD6-P and NKD6-H 500 A - 1200 A, in steps of 1 A For trip units: NST1-DM, NST1-DA, NST1-DP and NST1-DH 500 A - 1200 A, in steps of 2 A For trip units: NKD6-M and NKD6-A 500 A / 640 A / 800 A / 960 A / 1040 A / 1120 A / 1200 A
time setting of the ground fault release	: tg (ground fault release tripping setting): I <sup>2</sup> t off: 0,1 s / 0,2 s / 0,3 s / 0,4 s 0,1 s, with tolerance of 60 ms - 140 ms 0,2 s, with tolerance of 160 ms - 240 ms 0,3 s, with tolerance of 255 ms - 345 ms 0,4 s, with tolerance of 340 ms - 460 ms
shunt release	: 220 / 230 / 240 Vac, 380 / 400 / 415 Vac; 110 Vdc, 220 Vdc
under-voltage release closing coil	: 220 / 230 / 240 Vac, 380 / 400 / 415 Vac : 220 / 230 / 240 Vac, 380 / 400 / 415 Vac; 110 Vdc, 220 Vdc
stored energy motor	: 220 / 230 / 240 Vac, 380 / 400 / 415 Vac; 110 Vdc, 220 Vdc
auxiliary circuits	: 6NO6NC, 4NO4NC AC-15: 1,3 A at 240 Vac, 0,75 A at 415 Vac; 50 / 60 Hz DC-13: 0,55 A at 110 Vdc, 0,27 A at 220 Vdc Ui: 415 V, Uimp: 6 kV, Ith: 6 A rated conditional short-circuit current: 1 kA SCPD: NT00-6, 6 A

**Product rating - NXA40S**

rated service short-circuit breaking capacity (Ics)	:	85 kA at 380 / 400 / 415 Vac 75 kA at 440 / 525 / 690 Vac
rated ultimate short-circuit breaking capacity (Icu)	:	85 kA at 380 / 400 / 415 Vac 75 kA at 440 / 525 / 690 Vac
rated short-time withstand current (Icw)	:	85 kA / 1 s at 380 / 400 / 415 Vac 50 kA / 3 s at 380 / 400 / 415 Vac 75 kA / 1 s at 440 / 525 / 690 Vac

**Product rating - NXA40H**

rated service short-circuit breaking capacity (Ics)	:	85 kA at 380 / 400 / 415 Vac 75 kA at 440 / 525 / 690 Vac
rated ultimate short-circuit breaking capacity (Icu)	:	100 kA at 380 / 400 / 415 Vac 75 kA at 440 / 525 / 690 Vac
rated short-time withstand current (Icw)	:	85 kA / 1 s at 380 / 400 / 415 Vac 50 kA / 3 s at 380 / 400 / 415 Vac 75 kA / 1 s at 440 / 525 / 690 Vac

**Additional information**

Nomenclature breakdown

NXA40S / x, NXA40H / x

x- represents number of poles, 4 for 4P, blank for 3P