

CERTIFICATE

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

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

Product : Air Circuit-Breaker
Trade name(s) : CHINT
Type(s)/model(s) : NXA20H, NXA20N and NXA20S

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 60947-2:2017 and EN 60947-5-1:2017
- 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 21 December 2018 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 33-106567

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



H.R.M. Barends
Certification Manager

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SPECIFICATION OF THE CERTIFIED PRODUCT

Product data

Product	: Air Circuit-Breaker
Trade name(s)	: CHINT
Type(s)/model(s)	: NXA20H, NXA20N and NXA20S
Number of poles	: 3P or 4P (N pole with protection)
Protected poles	: 3 or 4
Rated operational voltage (Ue)	: 380 / 400 / 415 Vac, 440 / 525 / 690 Vac
Rated insulation voltage (Ui)	: 1000 V for main circuit 415 V for control circuit 415 V for auxiliary circuit
Rated impulse withstand voltage (Uimp)	: 12 kV for main circuit 6 kV for control circuit 6 kV for auxiliary circuit
Rated frequency	: 50 / 60 Hz
Rated current (In)	: 2000 A, 1600 A, 1250 A, 1000 A, 800 A, 630 A
Conventional thermal current (Ith)	: Equal to In
Current rating for four-pole circuit-breakers	: 50% In, 100% In adjustable
Individual pole short-circuit (IIT)	: 12 In 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	: Immaterial
Connection	: Prepared copper conductor with cable lug or copper busbar minimum cross-sectional area of conductor (mm ²): Prepared copper conductor with cable lug, 185 mm ² x 2 maximum cross-sectional area of conductor (mm ²): Copper busbar, (100 x 5) mm ² x 3
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	: Ir (inverse time delay tripping setting): For trip units: NKD6-P, NKD6-H, NST1-DM, NST1-DA, NST1-DP and NST1-DH (0,4 - 1) x In, in steps of 1 A For trip units: NKD6-M and NKD6-A (0,4 / 0,5 / 0,6 / 0,7 / 0,8 / 0,9 / 1) x In
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, with tolerance of $\pm 15\%$ (at 6 Ir) 2 Ir tripping time declared by the manufacturer: when tr = 1 s: 7,65 s - 10,35 s when tr = 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 1 A for li < 10 kA, in steps of 0,01 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): I²t 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): 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 1 A for li < 10 kA, in steps of 0,01 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)	: 16 kA
Ground fault release	: Ig (ground fault release tripping setting): Max 1200 A For trip units: NKD6-P, NKD6-H, NST1-DM, NST1-DA, NST1-DP and NST1-DH (0,2 - 1) x In, in steps of 1 A For trip units: NKD6-M and NKD6-A (0,2 / 0,3 / 0,4 / 0,5 / 0,6 / 0,8 / 1) x In
Time setting of the ground fault release	: tg (ground fault release tripping setting): I²t 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	: 220 / 230 / 240 Vac, 380 / 400 / 415 Vac
Closing coil	: 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 data – type NXA20H

Rated service short-circuit breaking capacity (Ics)	: 65 kA at 380 / 400 / 415 Vac 55 kA at 440 / 525 / 690 Vac
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Rated ultimate short-circuit breaking capacity (Icu) : 80 kA at 380 / 400 / 415 Vac
55 kA at 440 / 525 / 690 Vac
Rated short-time withstand current (Icw) : 65 kA / 1 s at 380 / 400 / 415 Vac
42 kA / 3 s at 380 / 400 / 415 Vac
55 kA / 1 s at 440 / 525 / 690 Vac

Product data – type NXA20N

Rated service short-circuit breaking capacity (Ics) : 50 kA at 380 / 400 / 415 Vac
50 kA at 440 / 525 / 690 Vac
Rated ultimate short-circuit breaking capacity (Icu) : 80 kA at 380 / 400 / 415 Vac
50 kA at 440 / 525 / 690 Vac
Rated short-time withstand current (Icw) : 50 kA / 1 s at 380 / 400 / 415 Vac
37 kA / 3 s at 380 / 400 / 415 Vac
50 kA / 1 s at 440 / 525 / 690 Vac

Product data – type NXA20S

Rated service short-circuit breaking capacity (Ics) : 65 kA at 380 / 400 / 415 Vac
55 kA at 440 / 525 / 690 Vac
Rated ultimate short-circuit breaking capacity (Icu) : 65 kA at 380 / 400 / 415 Vac
55 kA at 440 / 525 / 690 Vac
Rated short-time withstand current (Icw) : 65 kA / 1 s at 380 / 400 / 415 Vac
42 kA / 3 s at 380 / 400 / 415 Vac
55 kA / 1 s at 440 / 525 / 690 Vac

TESTS**Test requirements**

EN 60947-2:2017
EN 60947-5-1:2017

Test result

The test results are laid down in DEKRA test file 331397000.

Additional information

Nomenclature breakdown
NXA20N / x, NXA20S / x, NXA20H / x
x- represents number of poles, 4 for 4P, blank for 3P

The referred test reports are 3313970.50, 3312363.51 and CQC CB test reports no. 00901-CB2015CQC-067842 issued on 2015-12-18 with CQC CB test certificate no. CN36363 issued on 2016-01-26, no. 00901-CB2016CQC-069809 issued on 2016-03-24 and no. 00901-CB2016CQC-069809-M1 issued on 2017-06-22 with CQC CB test certificate no. CN36877-M1 issued on 2017-07-14.

The product also complies with IEC 60947-2:2016, IEC 60947-5-1:2016.

Conclusion

The examination proved that all requirements were met.

Factory location

Zhejiang Chint Electrics Co., Ltd.
No. 1318, Binhai No. 2 Avenue,
Economic and Technical Development Zone,
325025 Wenzhou, Zhejiang, China